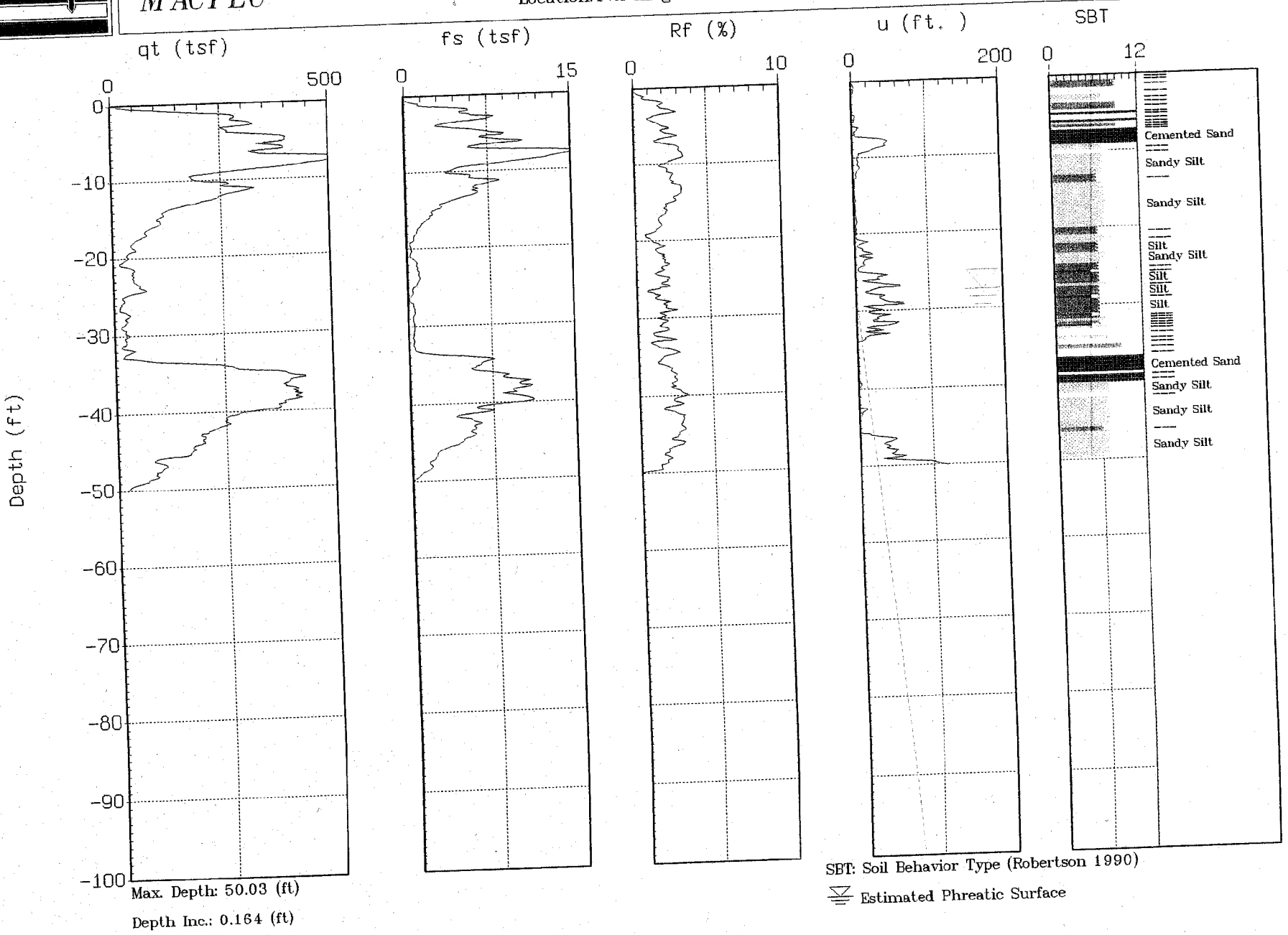
CONETEC

MACTEC

Site:CPT-1
Location:TVA Kingston

Cone:20 TON AD142
Date:03:22:04 08:54



Max. Depth: 50.03 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Estimated Phreatic Surface

(4)

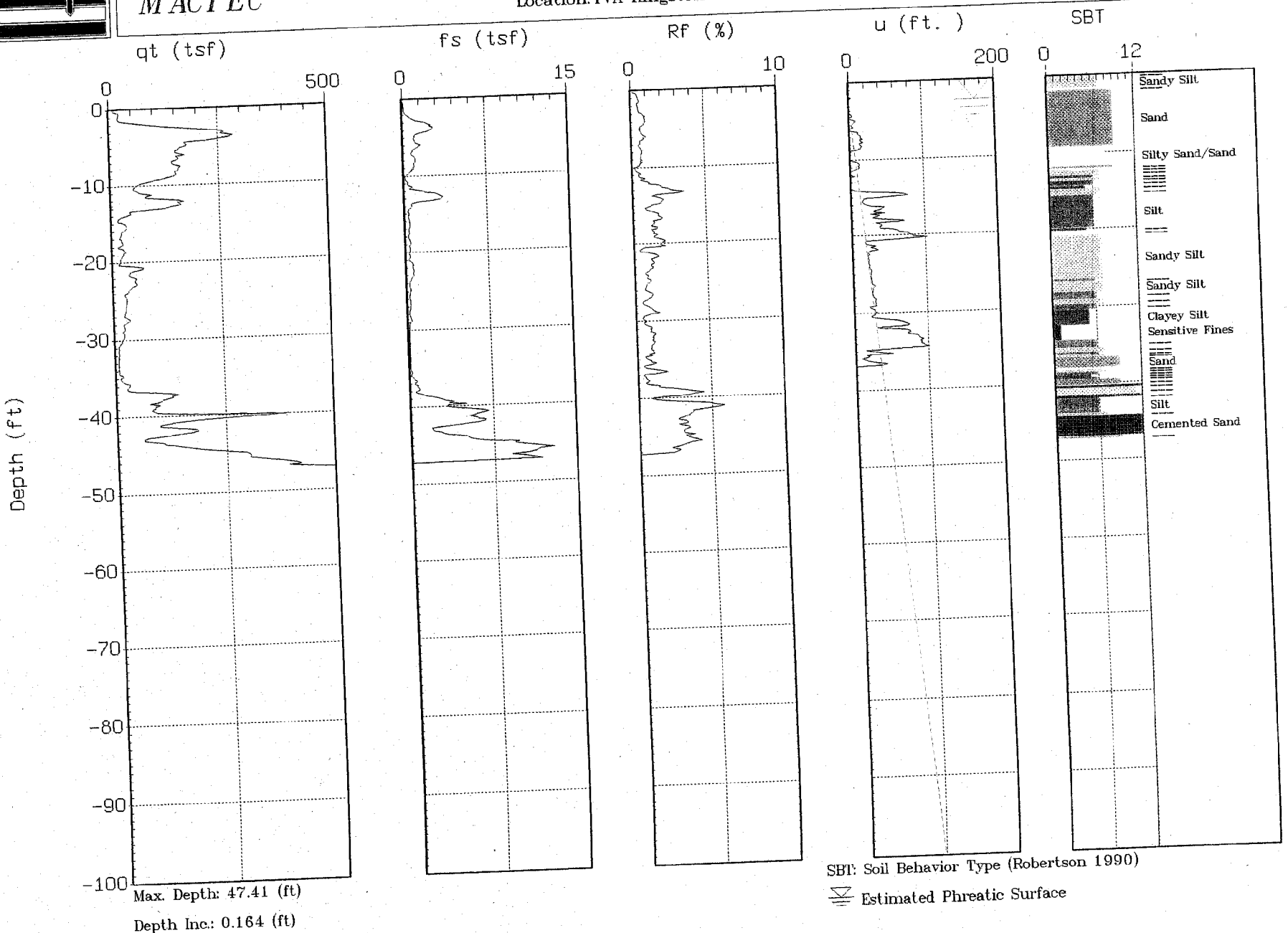
CPT

CONETEC

MACTEC

Site:CPT-10
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 10:53



Max. Depth: 47.41 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

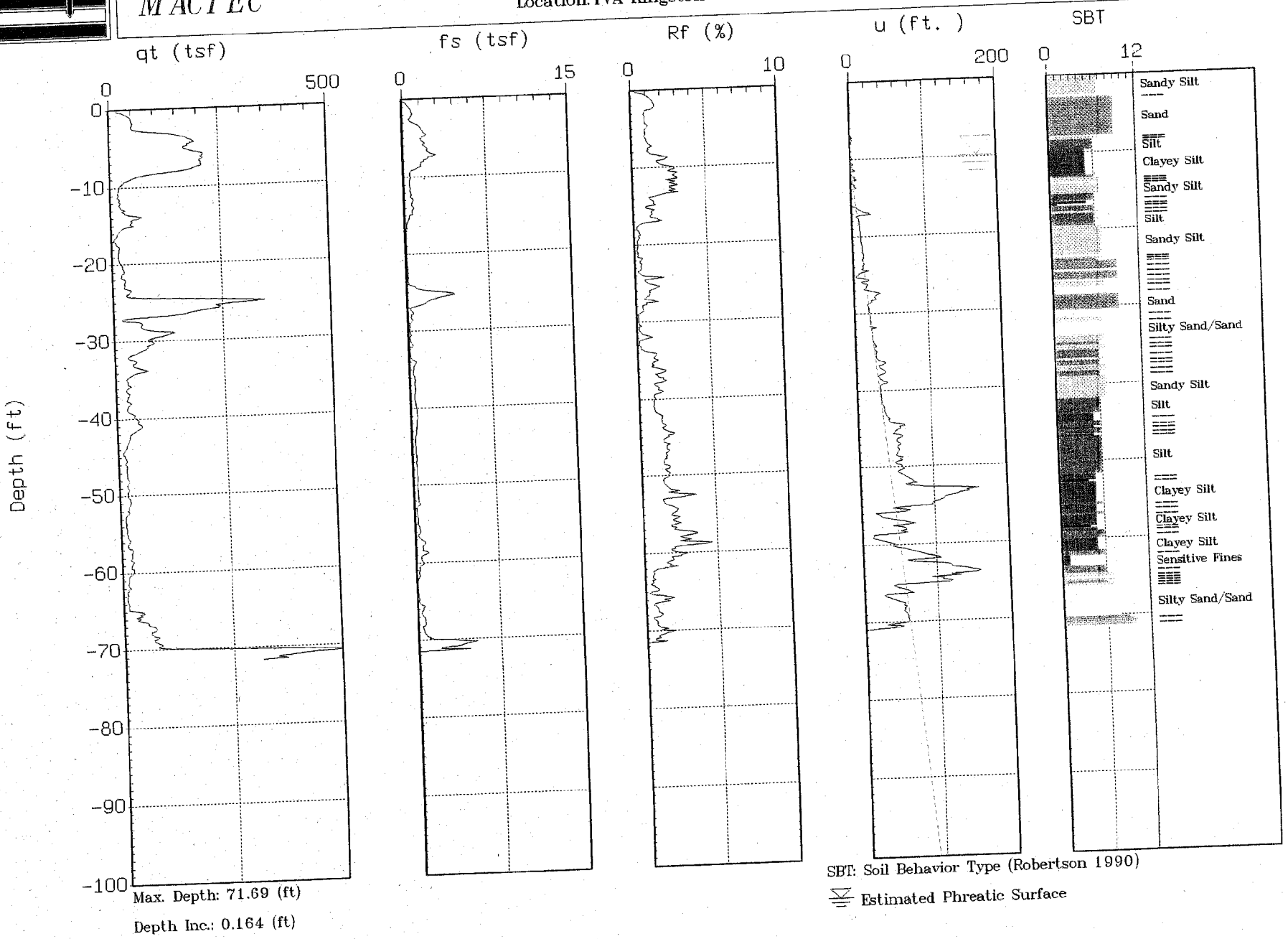
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-8
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 12:41



Max. Depth: 71.69 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

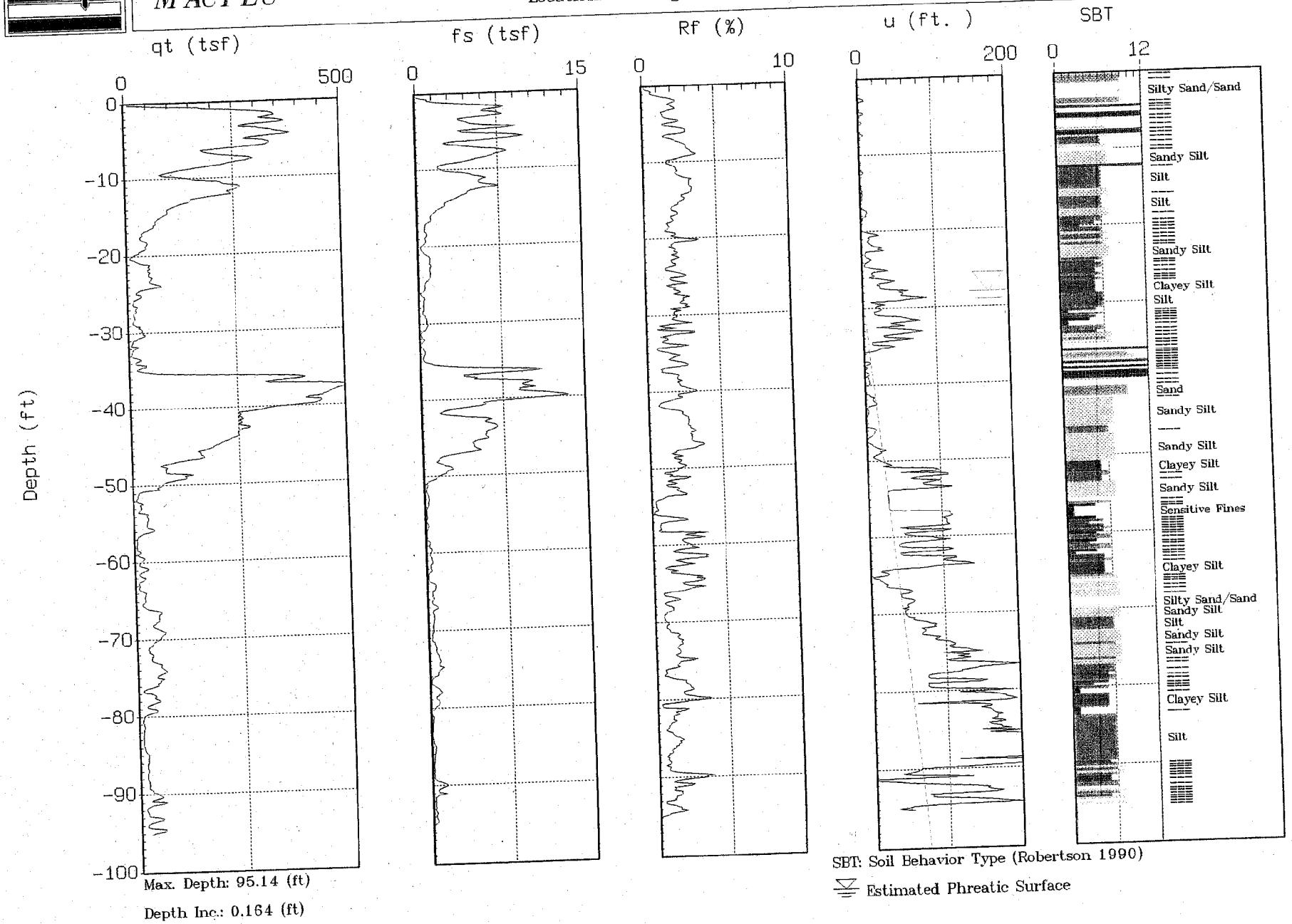
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-1A
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 15:11



Max. Depth: 95.14 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

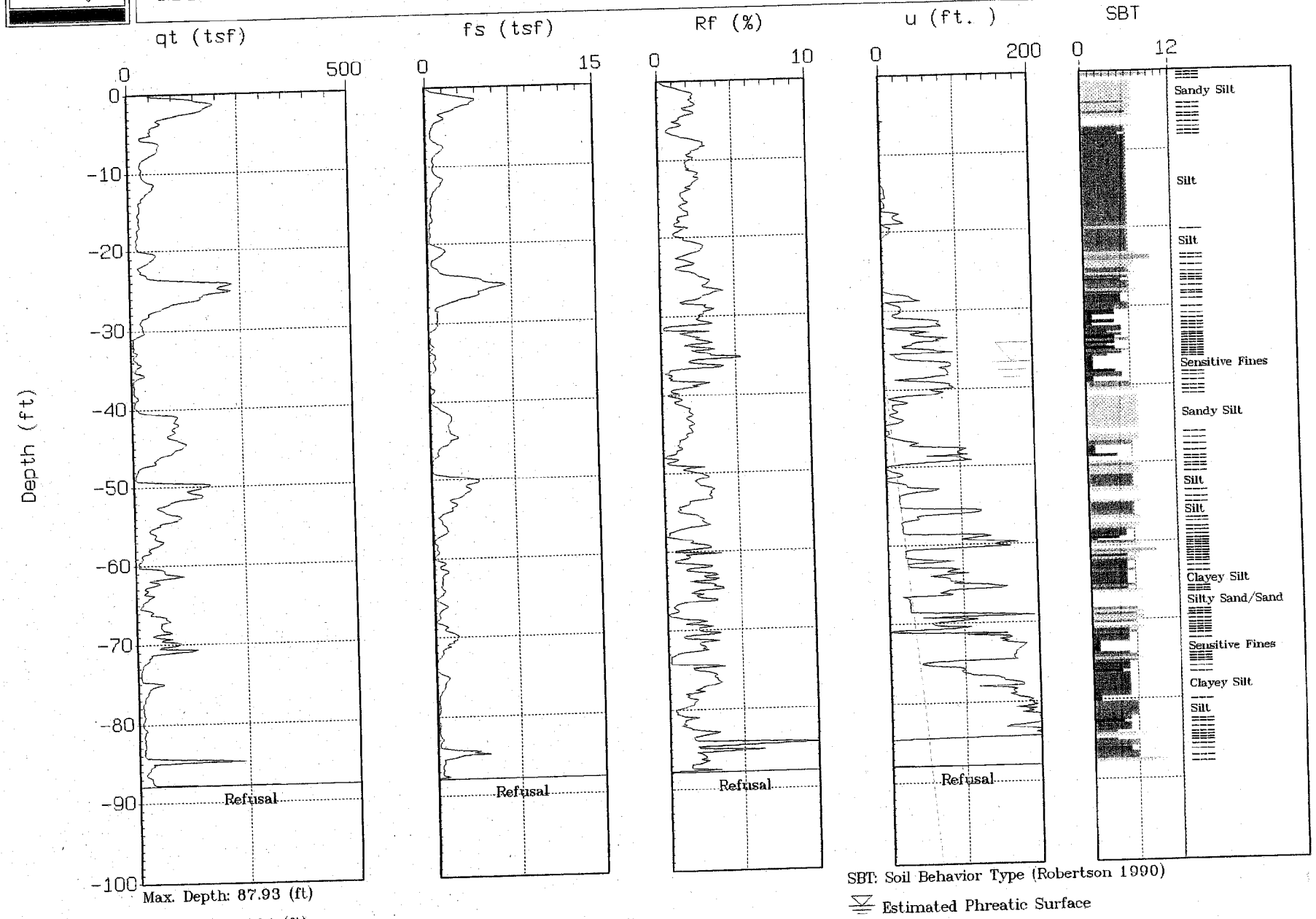
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-6
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 17:20



Max. Depth: 87.93 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

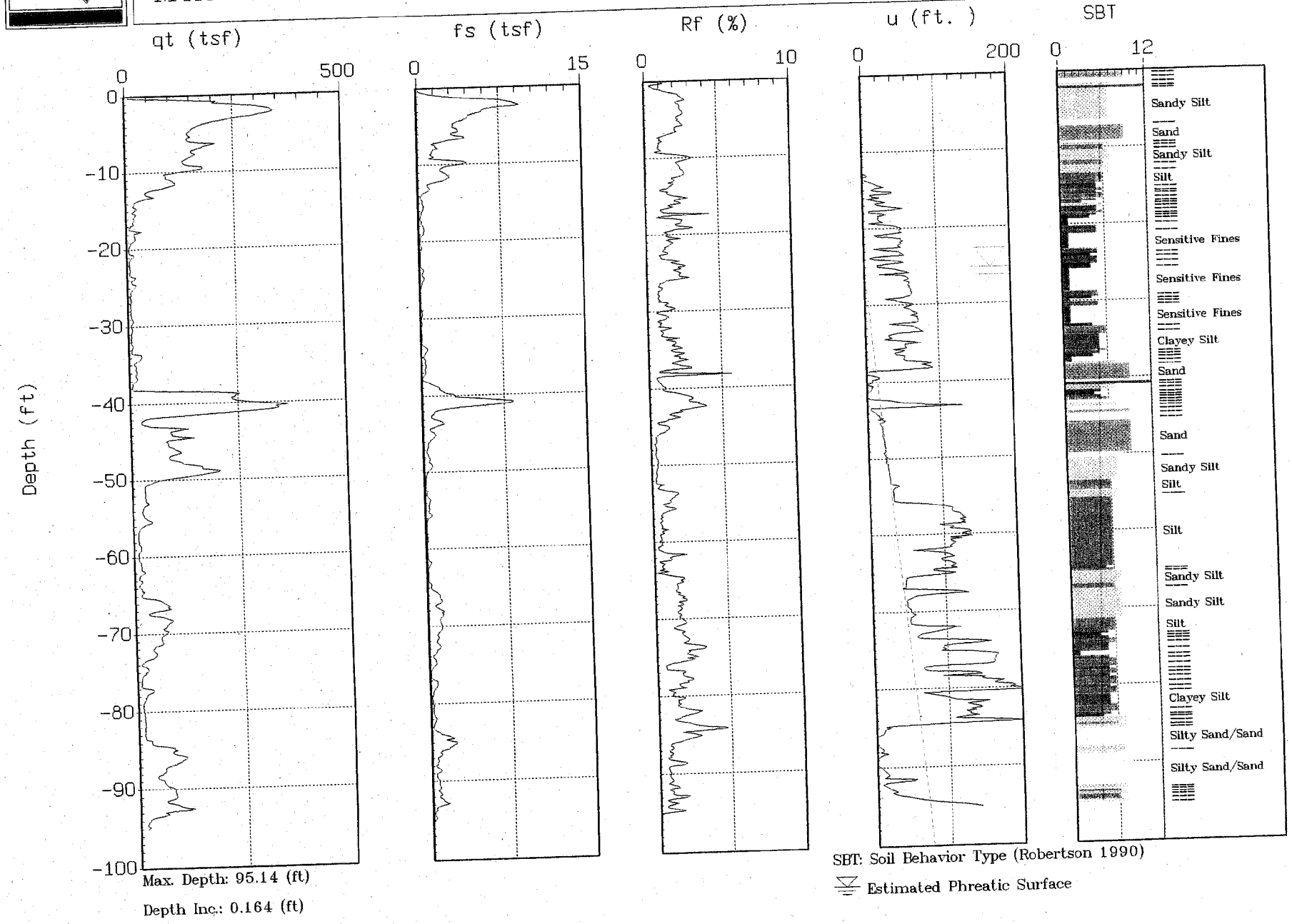
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-4
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 08:29



Max. Depth: 95.14 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

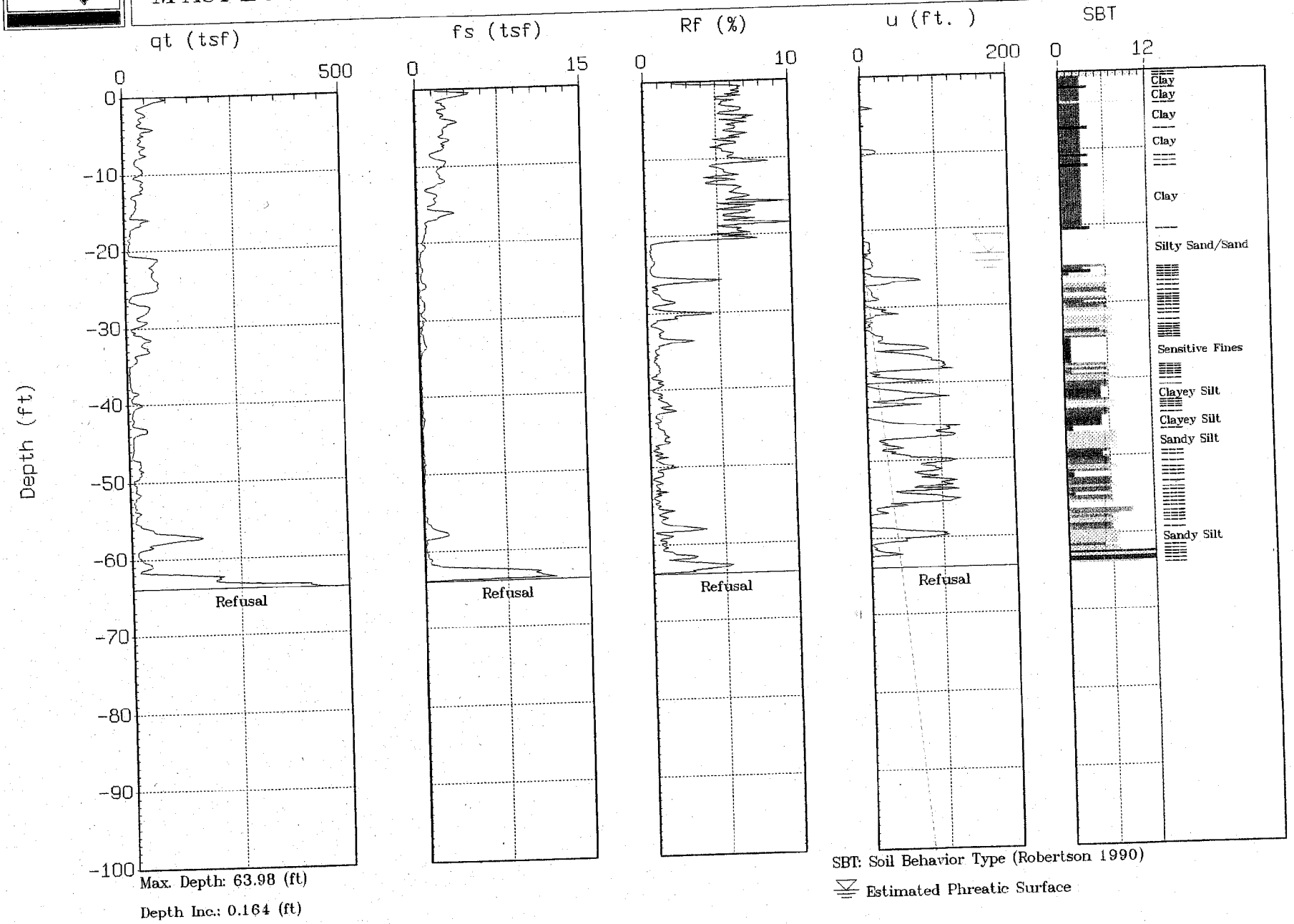
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-11
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 12:03



Max. Depth: 63.98 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

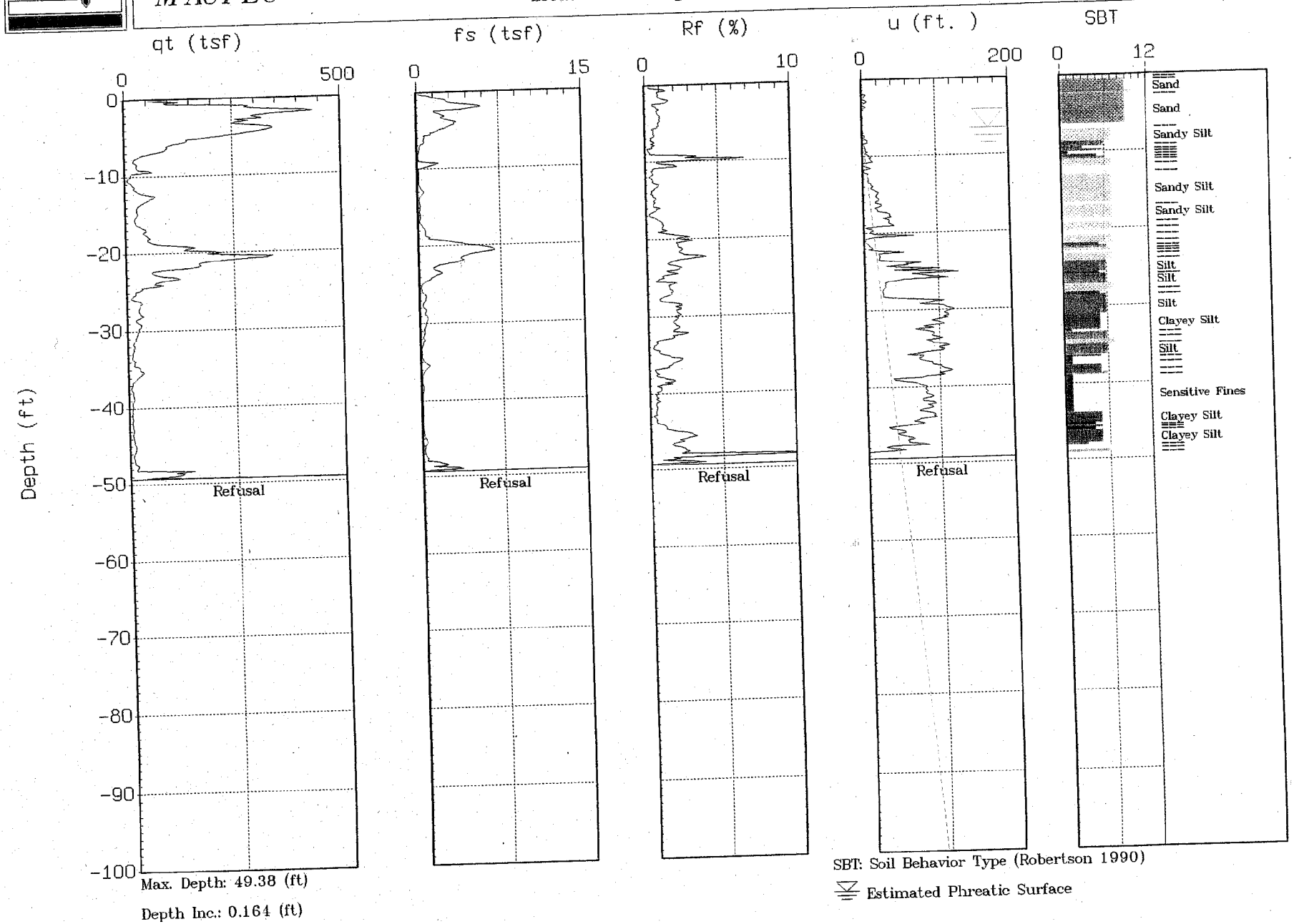
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-9
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 13:20



Max. Depth: 49.38 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

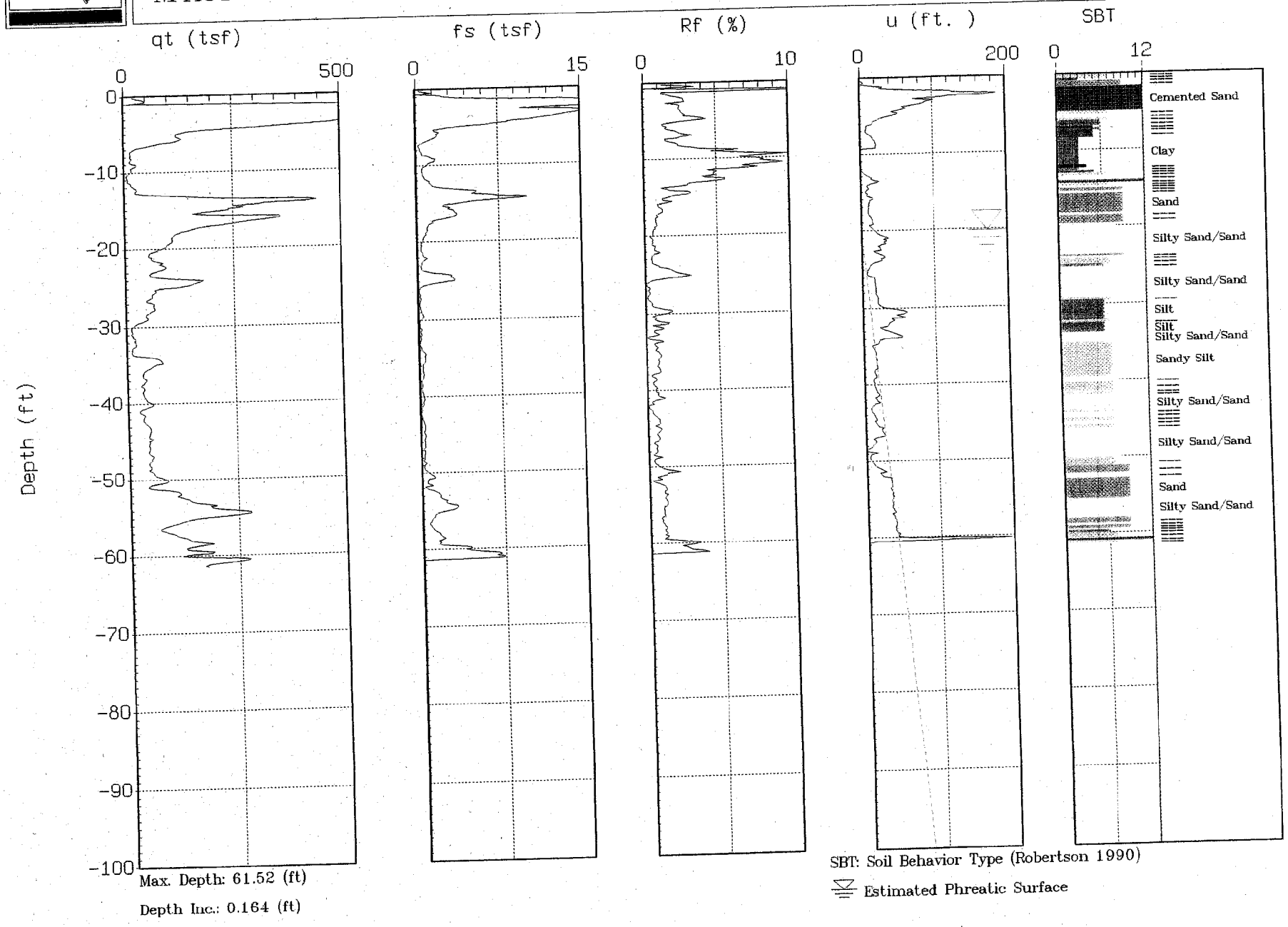
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-12A
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 14:54



Max. Depth: 61.52 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

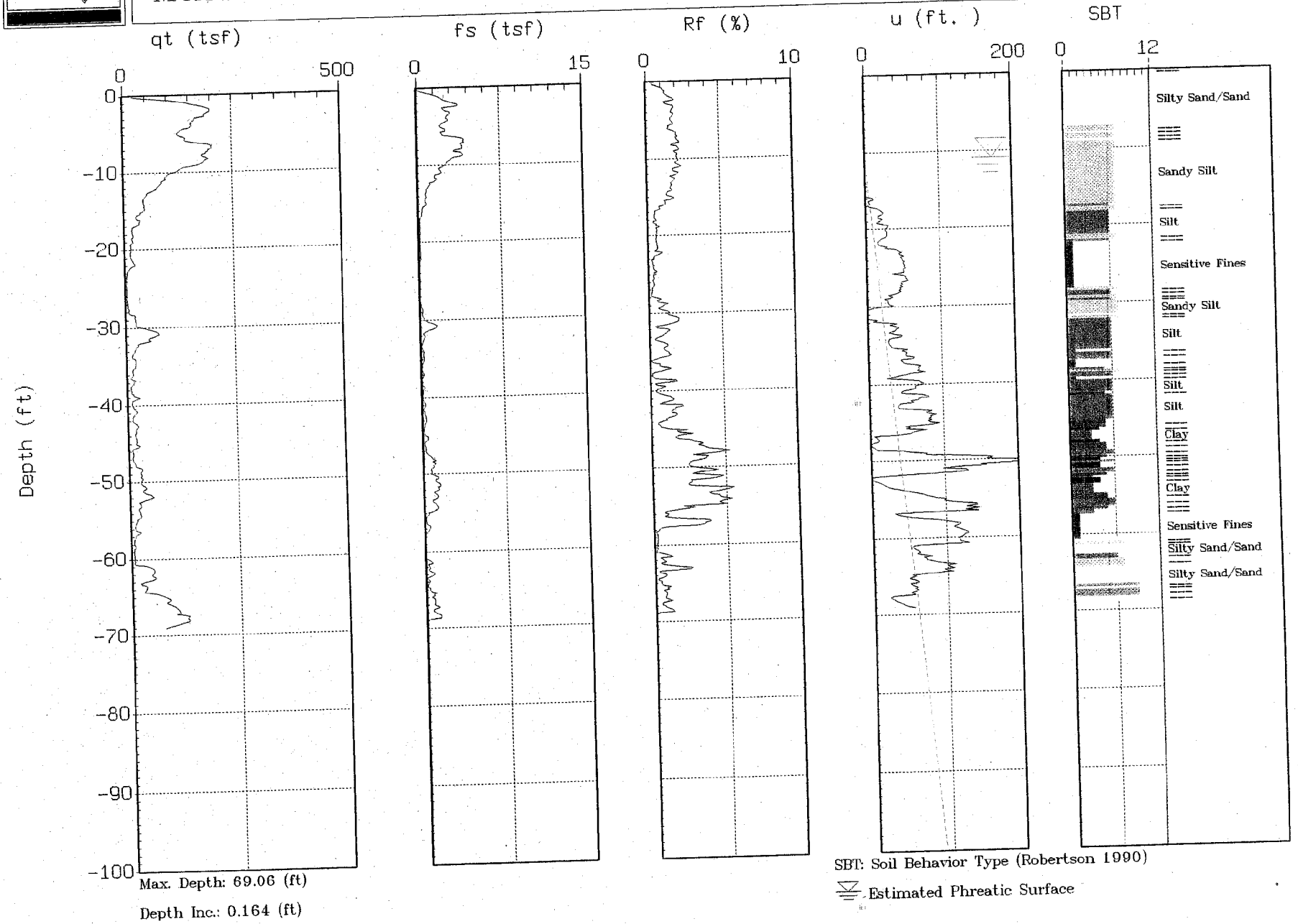
Estimated Phreatic Surface

CONETEC

MACTEC

Site:DIKE N
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 16:19



Max. Depth: 69.06 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

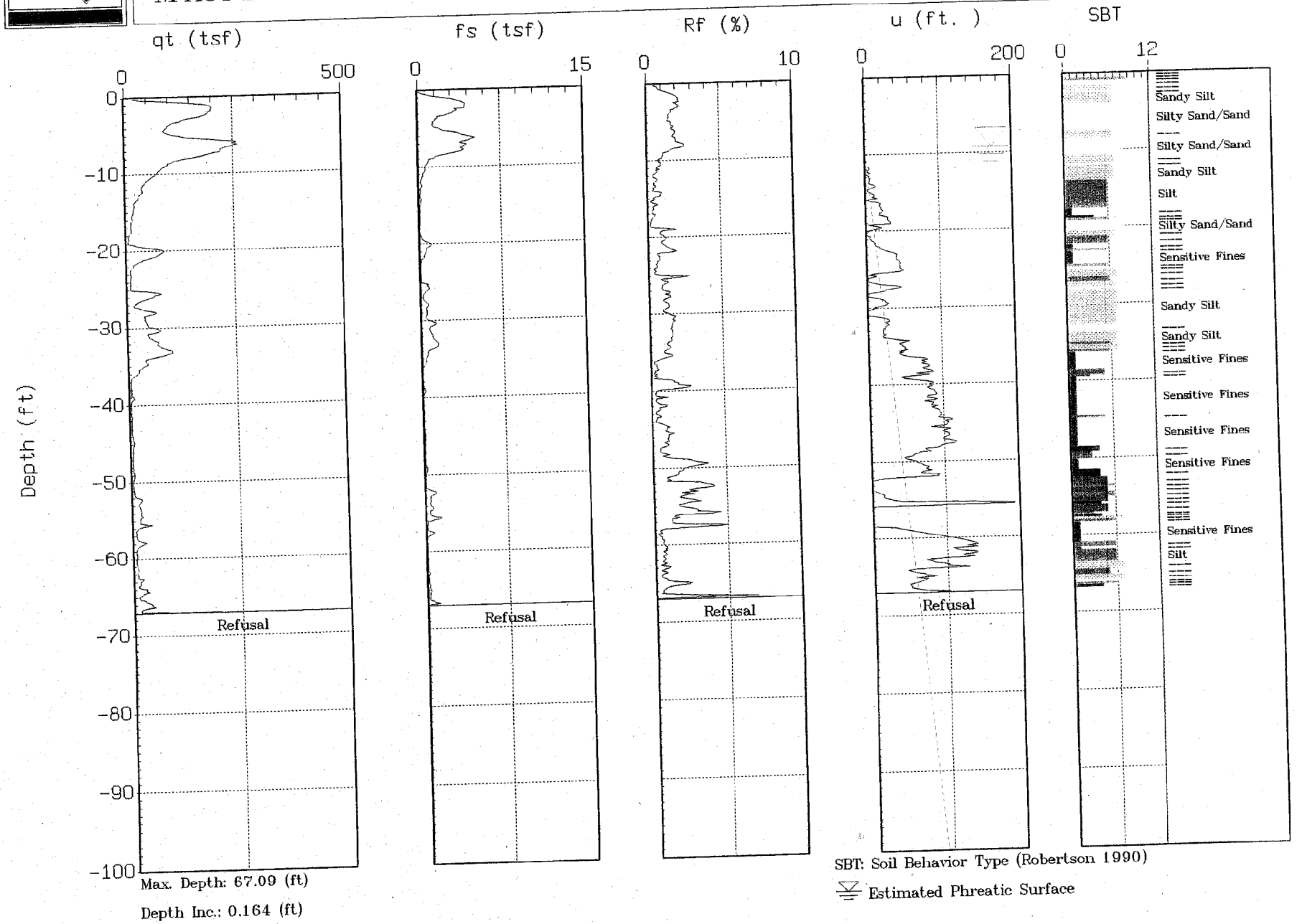
Estimated Phreatic Surface

CONETEC

MACTEC

Site:DIKE S
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 17:34



Max. Depth: 67.09 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Estimated Phreatic Surface

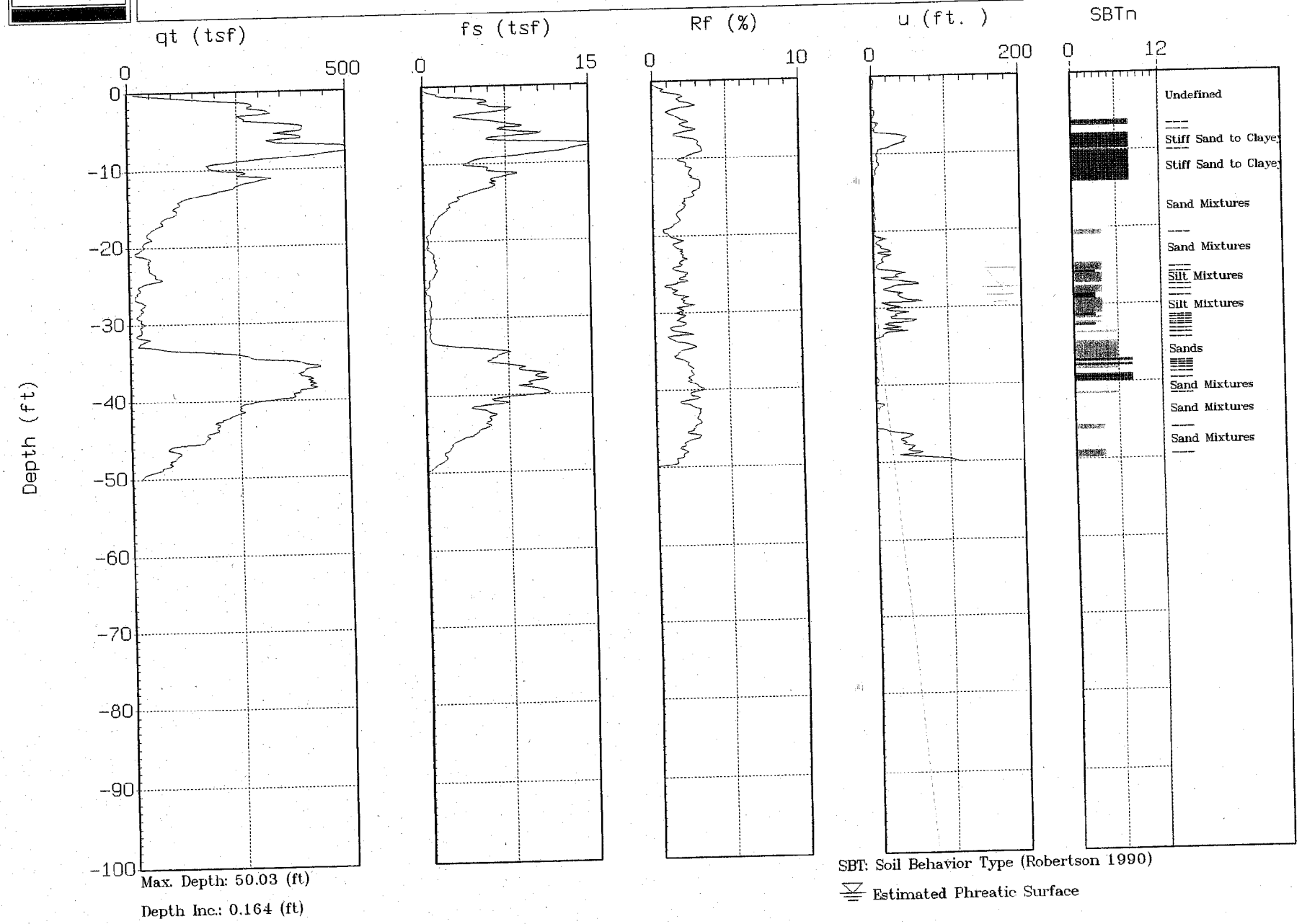
Normalized CPT plots

CONETEC

MACTEC

Site:CPT-1
Location:TVA Kingston

Cone:20 TON AD142
Date:03:22:04 08:54



Max. Depth: 50.03 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Estimated Phreatic Surface

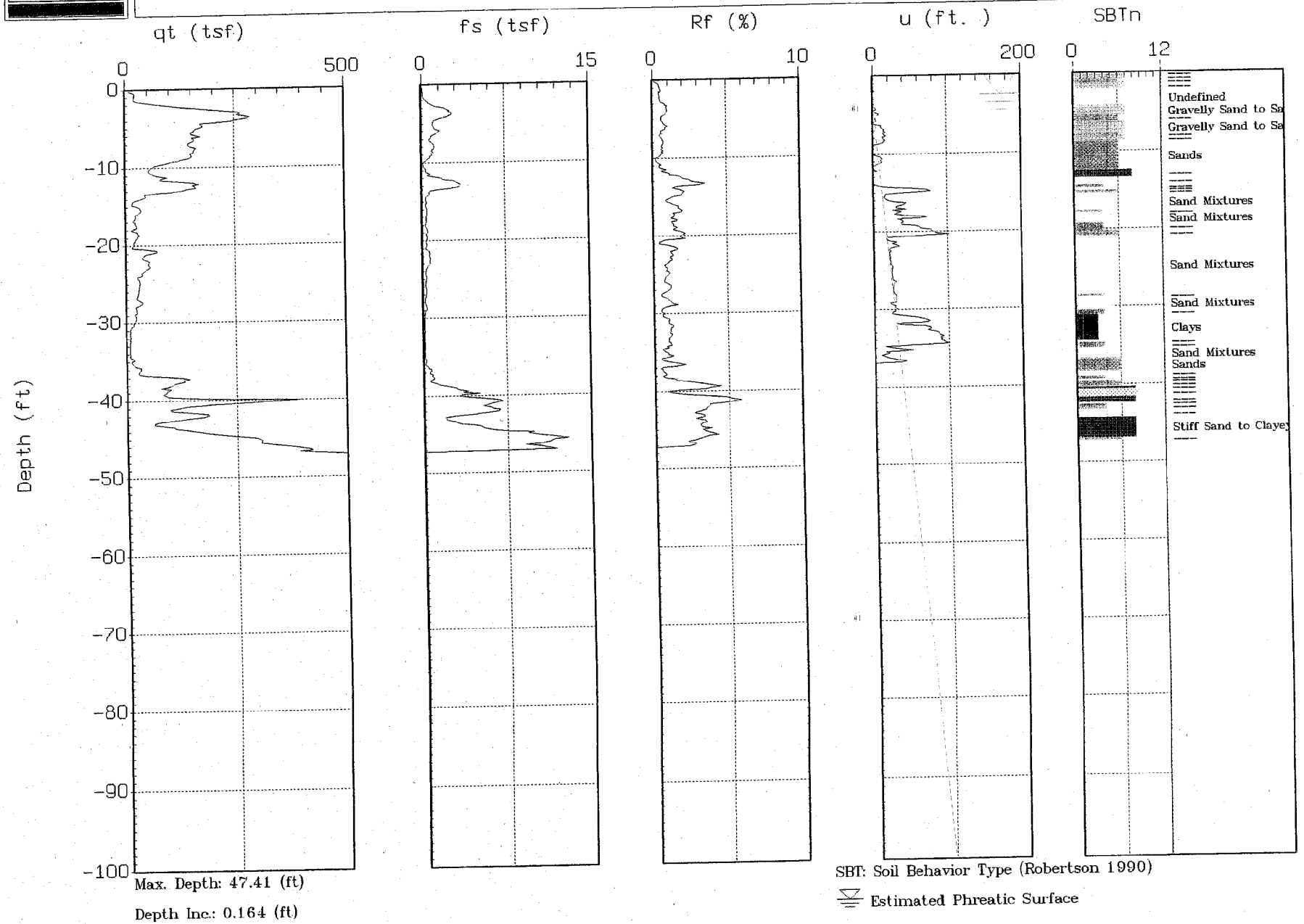
TVA-00000651

CONETEC

MACTEC

Site:CPT-10
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 10:53



Max. Depth: 47.41 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

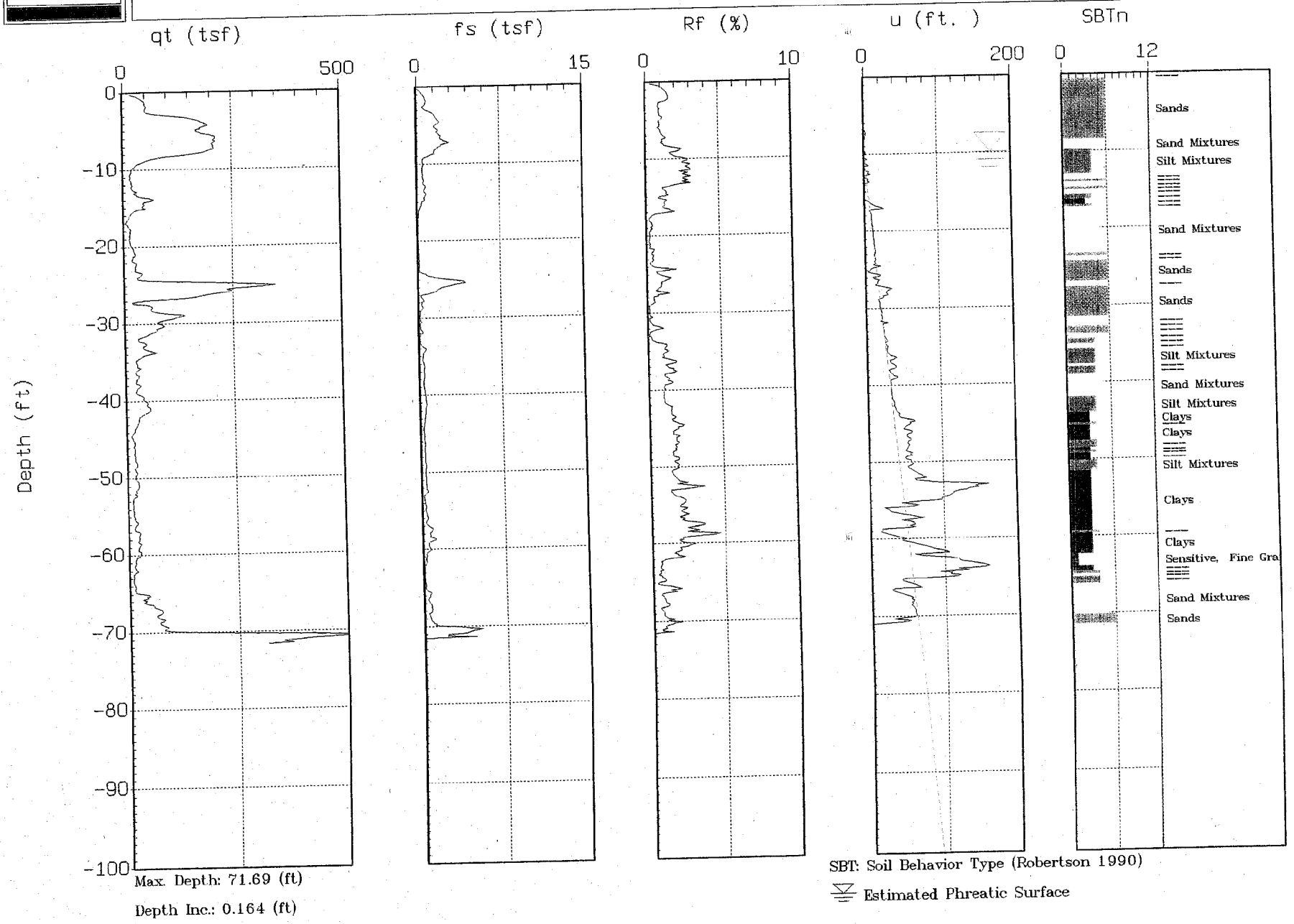
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-8
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 12:41



Max. Depth: 71.69 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

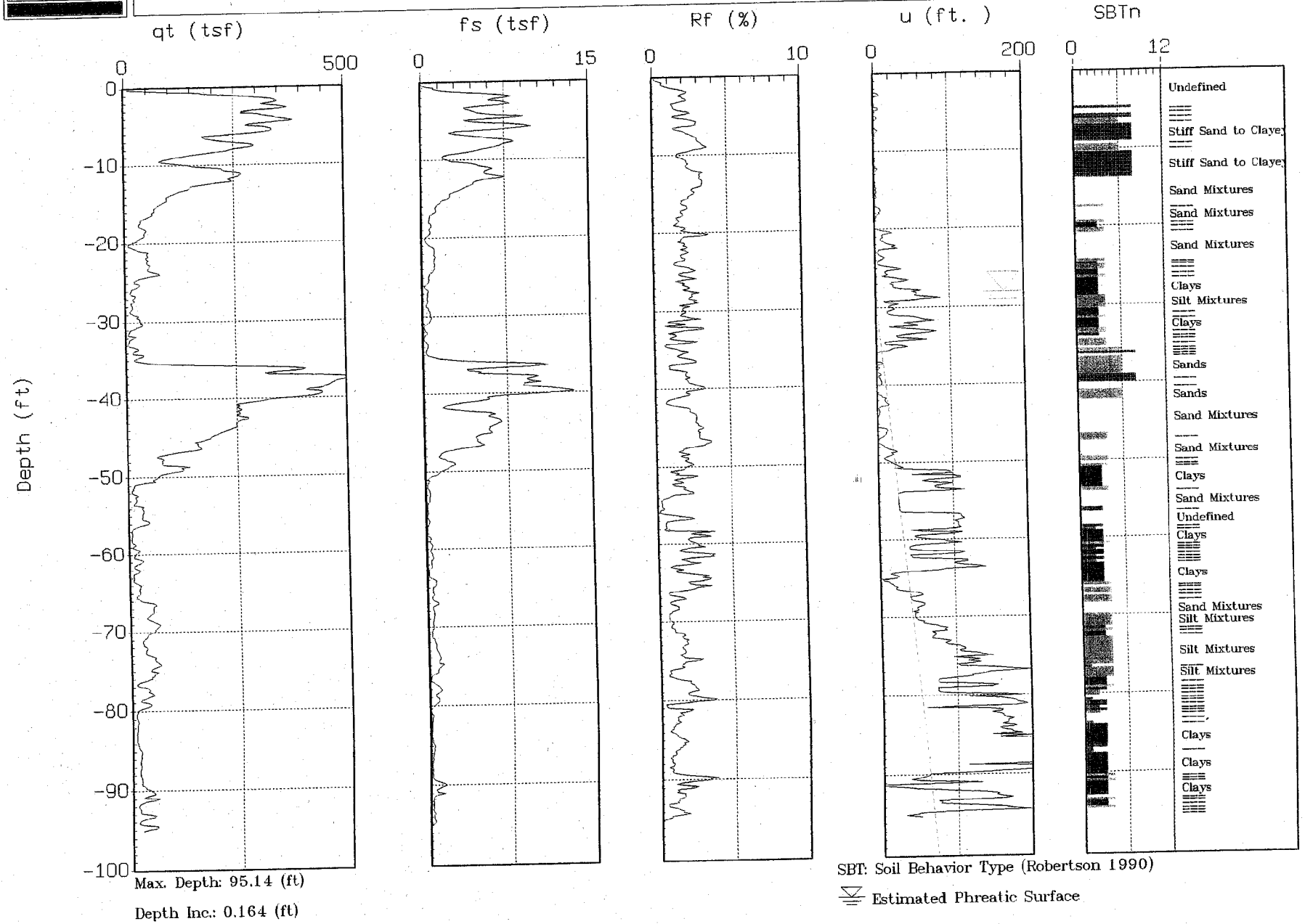
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-1A
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 15:11



Max. Depth: 95.14 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

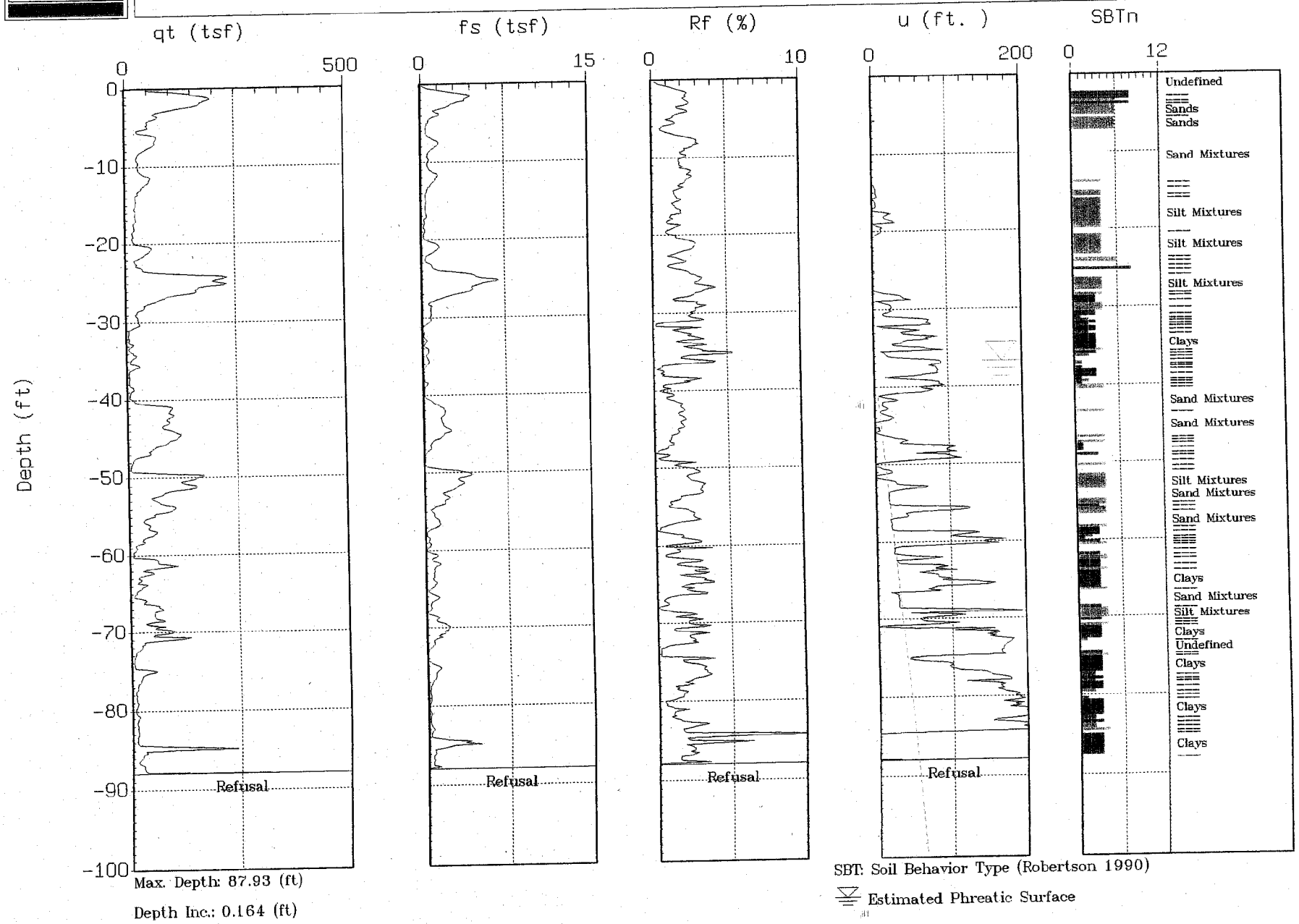
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-6
Location:TVA Kingston

Cone:20 TON AD142
Date:03:23:04 17:20



Max. Depth: 87.93 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

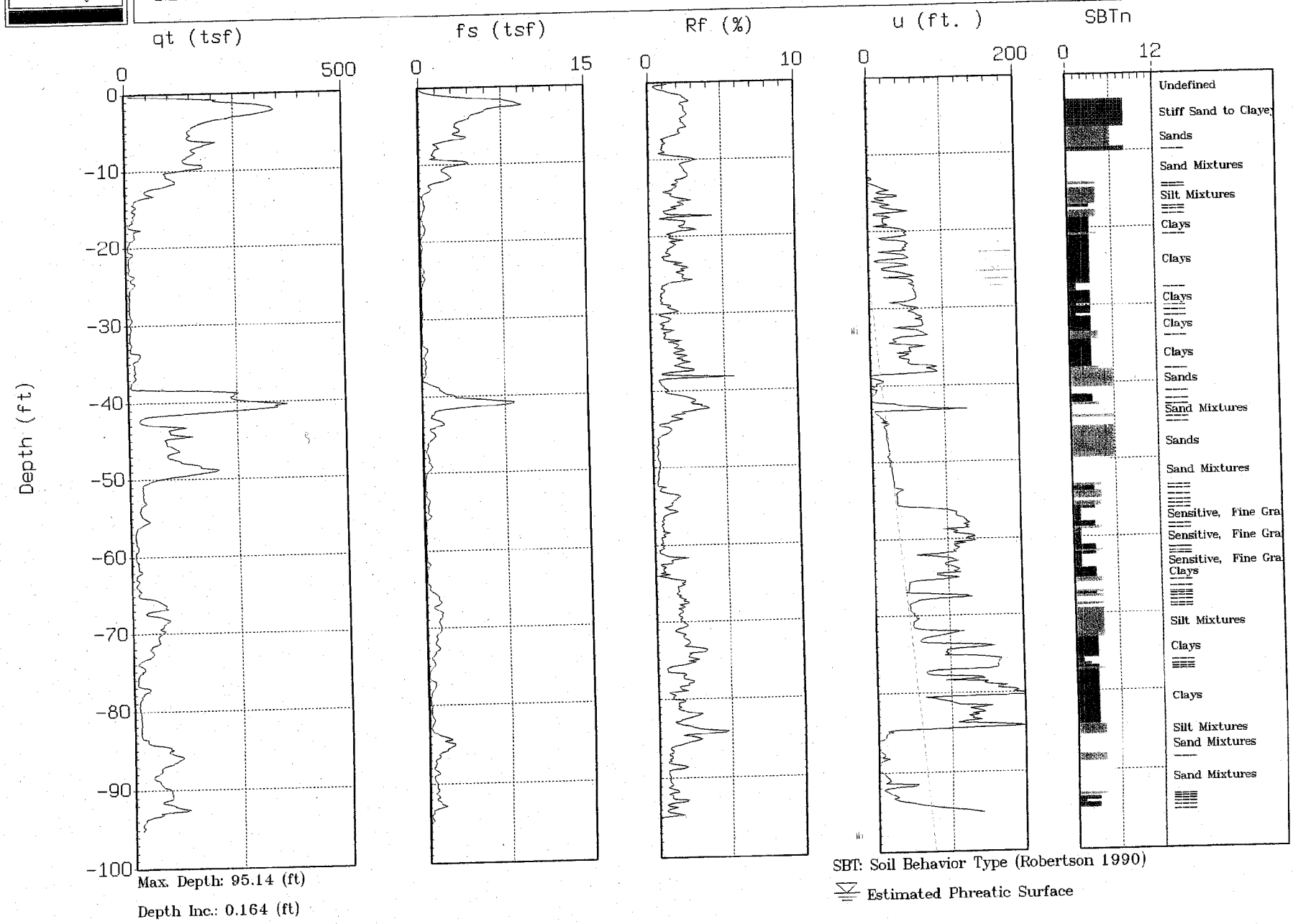
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-4
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 08:29



Max. Depth: 95.14 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

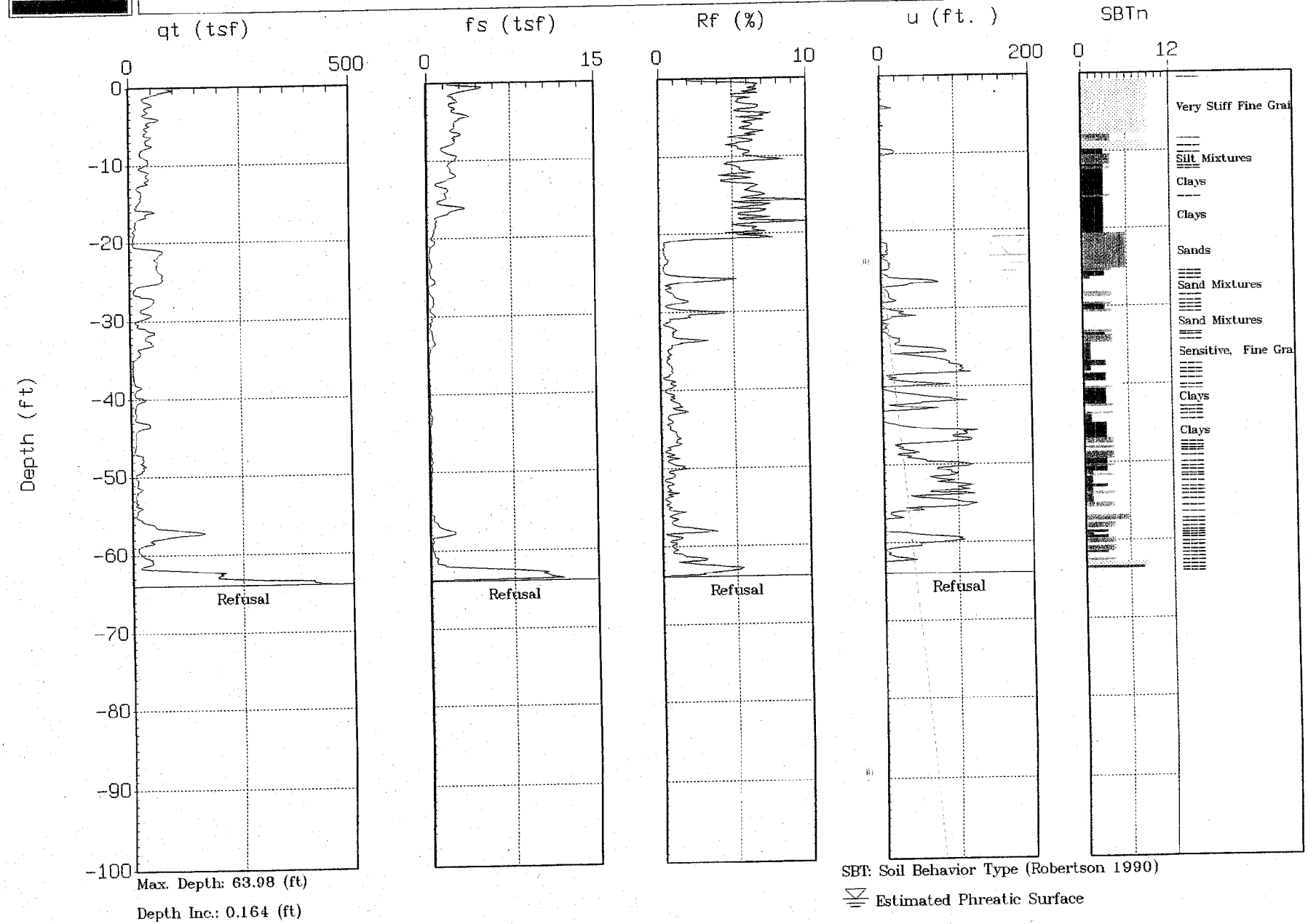
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-11
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 12:03



Max. Depth: 63.98 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

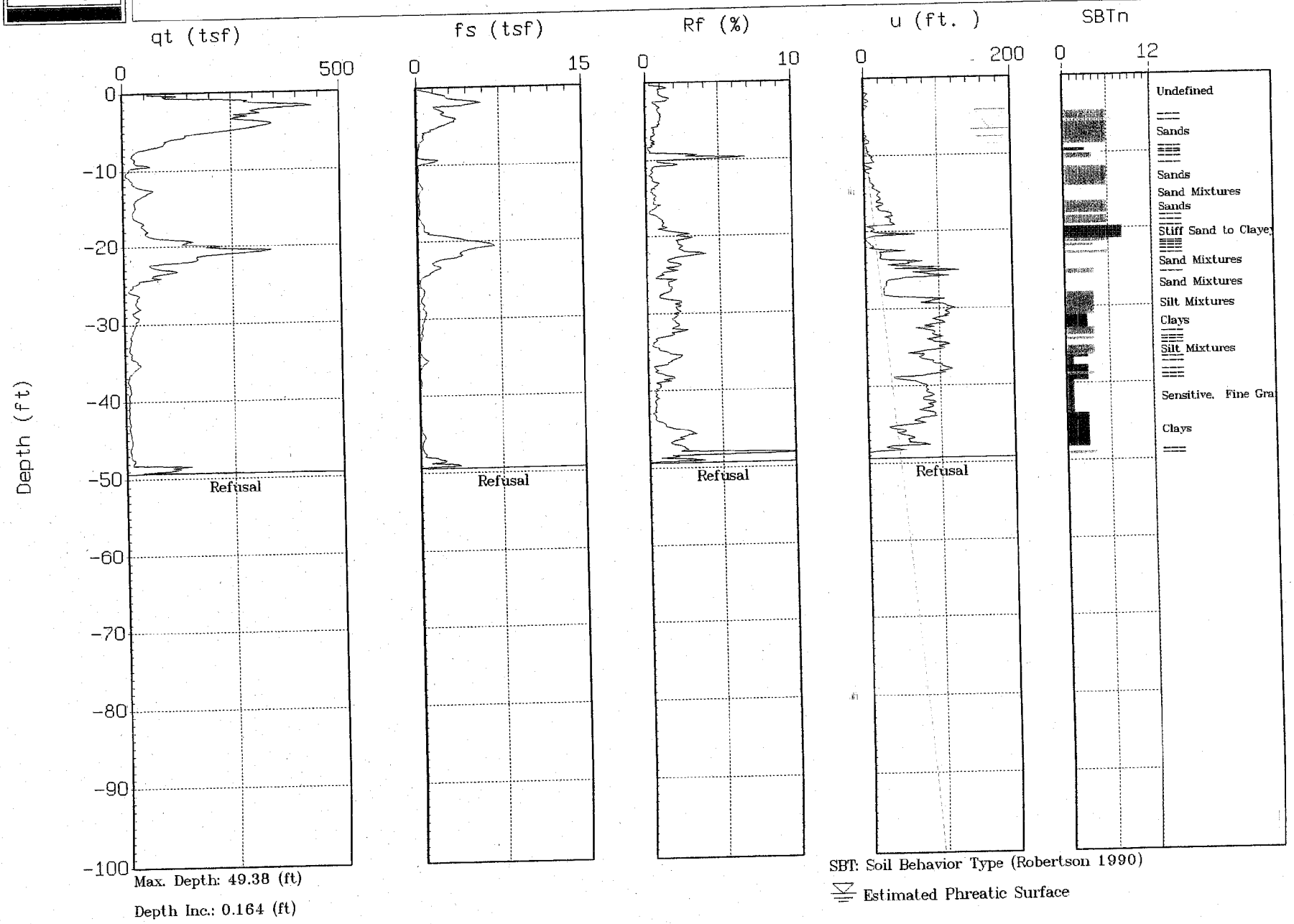
Estimated Phreatic Surface

CONETEC

MACTEC

Site:CPT-9
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 13:20



Max. Depth: 49.38 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Estimated Phreatic Surface

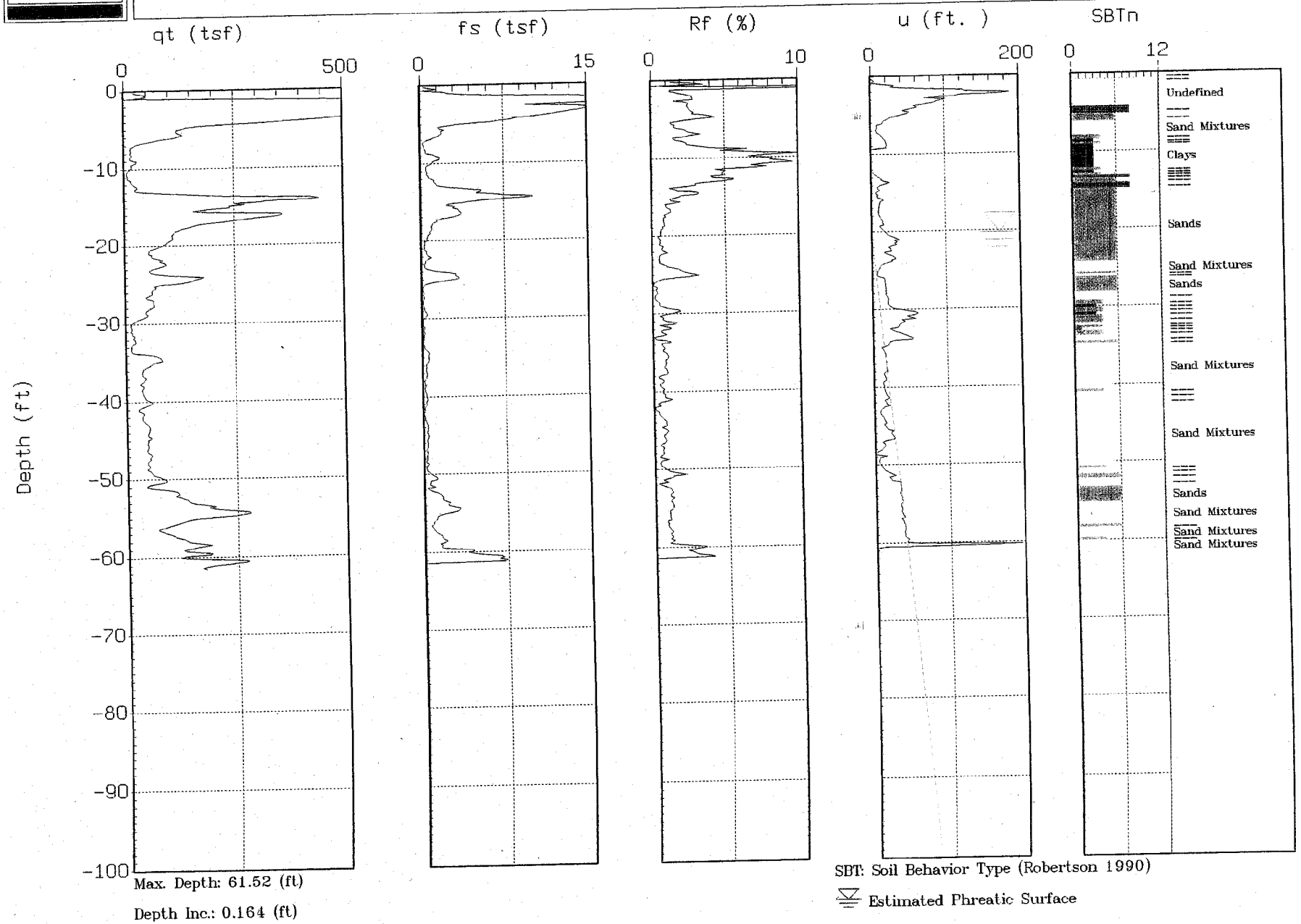
TVA-00000658

CONETEC

MACTEC

Site:CPT-12A
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 14:54



Max. Depth: 61.52 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

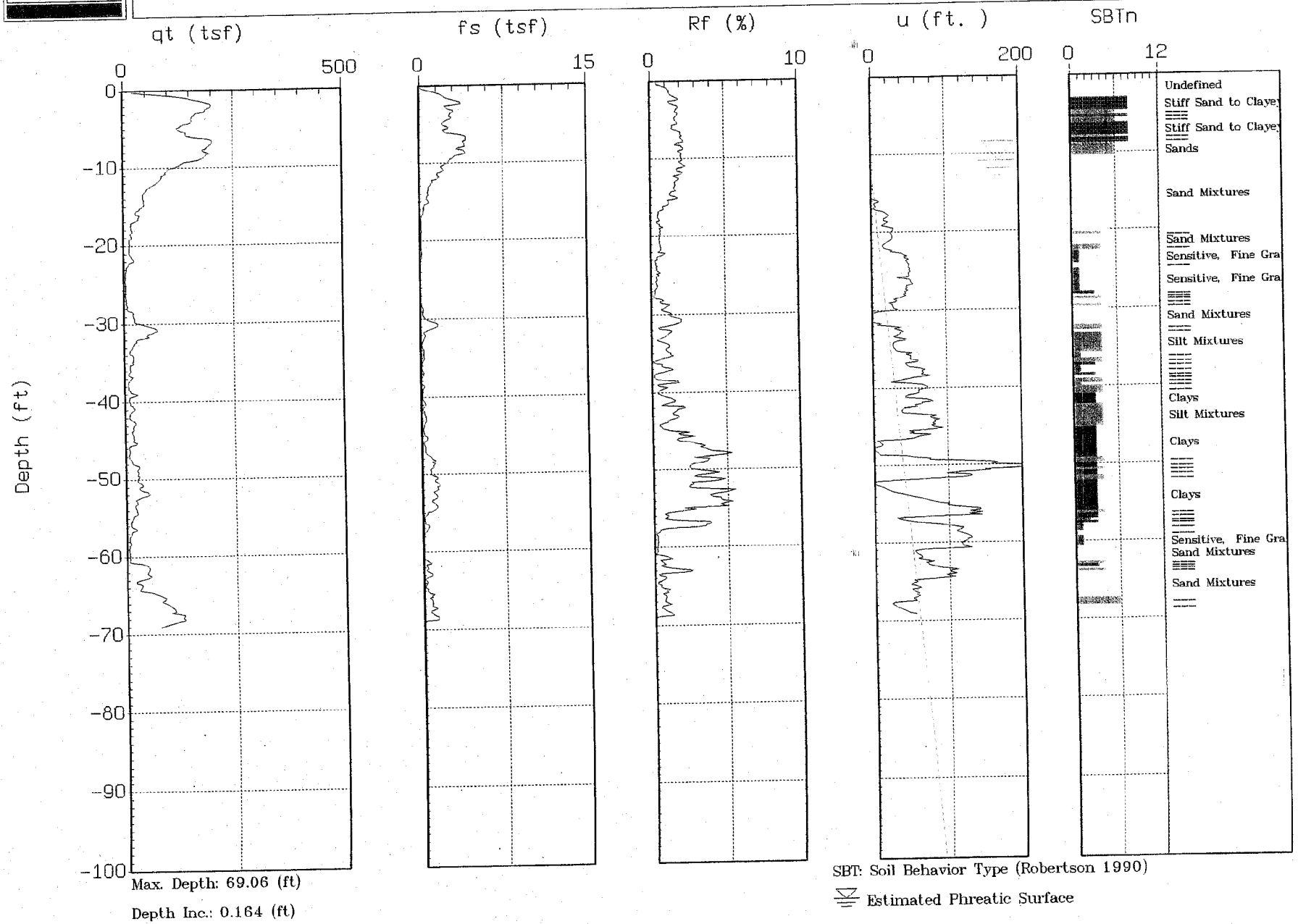
Estimated Phreatic Surface

CONETEC

MACTEC

Site:DIKE N
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 16:19



Max. Depth: 69.06 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

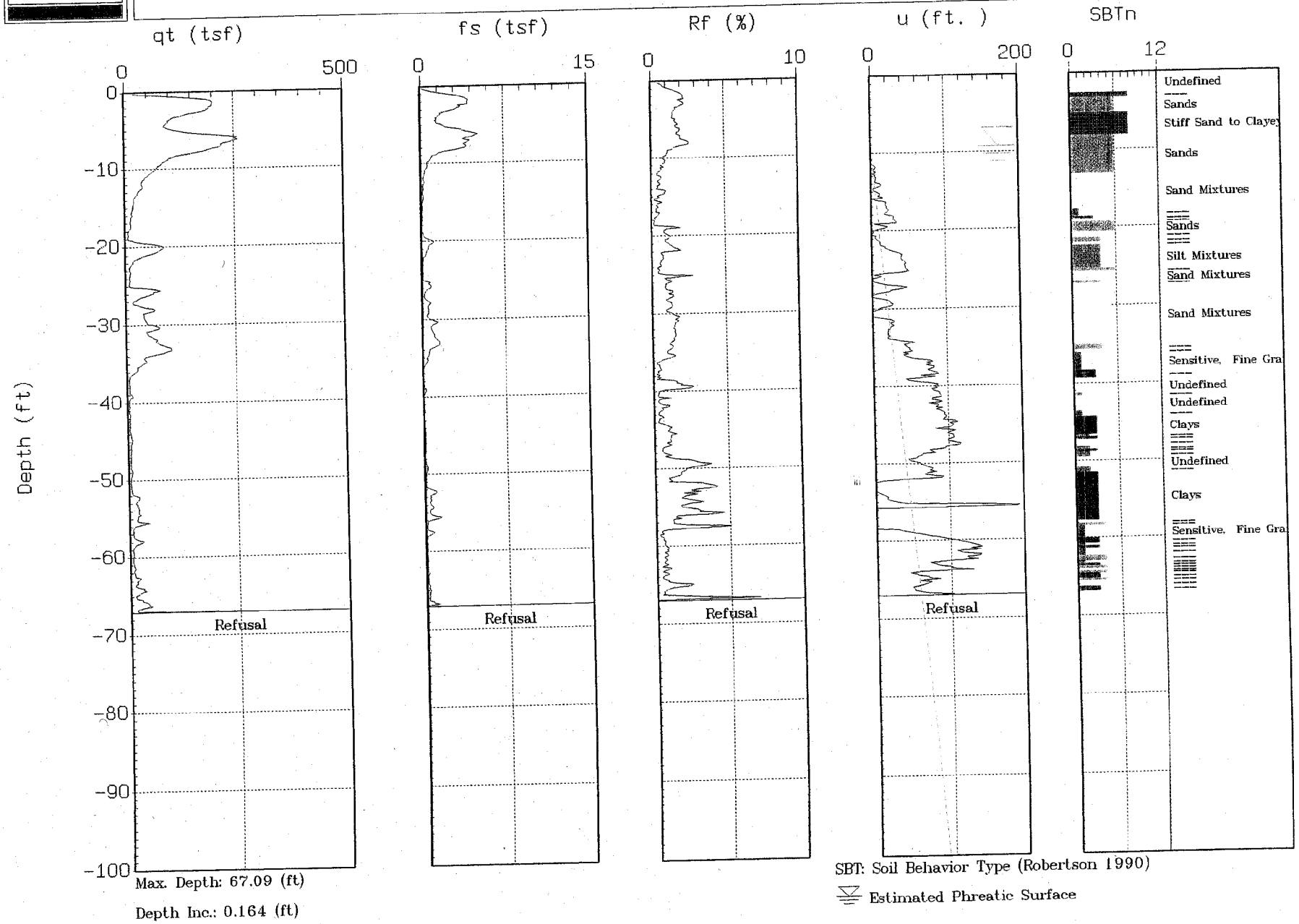
Estimated Phreatic Surface

CONETEC

MACTEC

Site:DIKE S
Location:TVA Kingston

Cone:20 TON AD142
Date:03:24:04 17:34



Max. Depth: 67.09 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Estimated Phreatic Surface

APPENDIX B

ConeTec CPT Interpretations as of January 7, 1999 (Release 1.00.19)

ConeTec's interpretation routine should be considered a calculator of current published CPT correlations and is subject to change to reflect the current state of practice. The interpreted values are not considered valid for all soil types. The interpretations are presented only as a guide for geotechnical use and should be carefully scrutinized for consideration in any geotechnical design. Reference to current literature is strongly recommended.

The CPT interpretations are based on values of tip, sleeve friction and pore pressure averaged over a user specified interval (typically 0.25m). Note that Qt is the recorded tip value, Qc, corrected for pore pressure effects. Since all ConeTec cones have equal end area friction sleeves, pore pressure corrections to sleeve friction, Fs, are not required.

The tip correction is: $Qt = Qc + (1-a) \bullet Ud$

where: *Qt* is the corrected tip load
Qc is the recorded tip load
Ud is the recorded dynamic pore pressure
a is the Net Area Ratio for the cone (typically 0.85 for ConeTec cones)

Effective vertical overburden stresses are calculated based on a hydrostatic distribution of equilibrium pore pressures below the water table or from a user defined equilibrium pore pressure profile (this can be obtained from CPT dissipation tests). The stress calculations use unit weights assigned to the Soil Behaviour Type zones or from a user defined unit weight profile.

Details regarding the interpretation methods for all of the interpreted parameters is given in table 1. The appropriate references referred to in table 1 are listed in table 2.

The estimated Soil Behaviour Type is based on the charts developed by Robertson and Campanella shown in figure 1.

Table 1 CPT Interpretation Methods

Interpreted Parameter	Description	Equation	Ref
Depth	mid layer depth		
AvgQt	Averaged corrected tip (Qt)	$AvgQt = \frac{1}{n}\sum_{i=1}^{n} Qt_i$	
AvgFs	Averaged sleeve friction (Fs)	$AvgFs = \frac{1}{n}\sum_{i=1}^{n} Fs_i$	
AvgRf	Averaged friction ratio (Rf)	$AvgRf = 100\% \bullet \frac{AvgFs}{AvgQt}$	
AvgUd	Averaged dynamic pore pressure (Ud)	$AvgUd = \frac{1}{n}\sum_{i=1}^{n} Ud_i$	
SBT	Soil Behavior Type as defined by Robertson and Campanella		1

U.Wt.	Unit Weight of soil determined from: 1) uniform value or 2) value assigned to each SBT zone 3) user supplied unit weight profile		
TStress	Total vertical overburden stress at mid layer depth	$TStress = \sum_{i=1}^{n} \gamma_i h_i$ where γ_i is layer unit weight h_i is layer thickness	
EStress	Effective vertical overburden stress at mid layer depth	$EStress = TStress - Ueq$	
Ueq	Equilibrium pore pressure determined from: 1) hydrostatic from water table depth 2) user supplied profile		
Cn	SPT N_{60} overburden correction factor	$Cn = (\sigma_v')^{-0.5}$ where σ_v' is in tsf $0.5 < C_n < 2.0$	
N_{60}	SPT N value at 60% energy calculated from Qt/N ratios assigned to each SBT zone		3
$(N1)_{60}$	SPT N_{60} value corrected for overburden pressure	$N1_{60} = Cn \bullet N_{60}$	3
$\Delta(N1)_{60}$	Equivalent Clean Sand Correction to $(N1)_{60}$	$\Delta(N1)_{60} = \frac{K_{SPT}}{1 - K_{SPT}} \bullet (N1)_{60}$ Where: K_{SPT} is defined as: 0.0 for FC < 5% 0.0167 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35% FC - Fines Content in %	7
$(N1)_{60cs}$	Equivalent Clean Sand $(N1)_{60}$	$(N1)_{60cs} = (N1)_{60} + \Delta(N1)_{60}$	7
Su	Undrained shear strength - Nkt is use selectable	$Su = \frac{Qt - \sigma_v}{Nkt}$	2
k	Coefficient of permeability (assigned to each SBT zone)		6
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{Qt - \sigma_v}$	2
Qtn	Normalized Qt for Soil Behavior Type classification as defined by Robertson, 1990	$Qtn = \frac{Qt - \sigma_v}{\sigma_v'}$	4
Rfn	Normalized Rf for Soil Behavior Type classification as defined by Robertson, 1990	$Rfn = 100\% \bullet \frac{f_s}{Qt - \sigma_v}$	4
SBTn	Normalized Soil Behavior Type (slightly modified from that published by Robertson, 1990. This version includes all the soil zones of the original non-normalized SBT chart - see figure 1)		4
Qc1	Normalized Qt for seismic analysis	$qc1 = qc \bullet (Pa/\sigma_v')^{0.5}$ where: Pa = atm. pressure	5
Qc1N	Dimensionless Normalized Qt1	qc1N = qc1 / Pa where: Pa = atm. pressure	

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ΔQc1N1	Equivalent clean sand correction	$\Delta qc1N = \frac{K_{CPT}}{1 - K_{CPT}} \bullet qc1N$ Where: K_{CPT} is defined as: 0.0 for FC < 5% 0.0267 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35% FC - Fines Content in %	5
Qc1Ncs	Clean Sand equivalent Qc1N	$qc1Ncs = qc1N + \Delta qc1N$	5
Ic	Soil index for estimating grain characteristics	$Ic = [(3.47 - \log Q)^2 + (\log F + 1.22)^2]^{0.5}$	5
FC	Fines content (%)	$FC=1.75(Ic^{3.25}) - 3.7$ $FC=100$ for $Ic > 3.5$ $FC=0$ for $Ic < 1.26$ $FC = 5\%$ if $1.64 < Ic < 2.6$ AND $Rfn<0.5$	8
PHI	Friction Angle	Campanella and Robertson Durunoglu and Mitchel Janbu	1
Dr	Relative Density	Ticino Sand Hokksund Sand Schmertmann 1976 Jamiolkowski - All Sands	1
OCR	Over Consolidation Ratio		1
State Parameter			9
CRR	Cyclic Resistance Ratio		7

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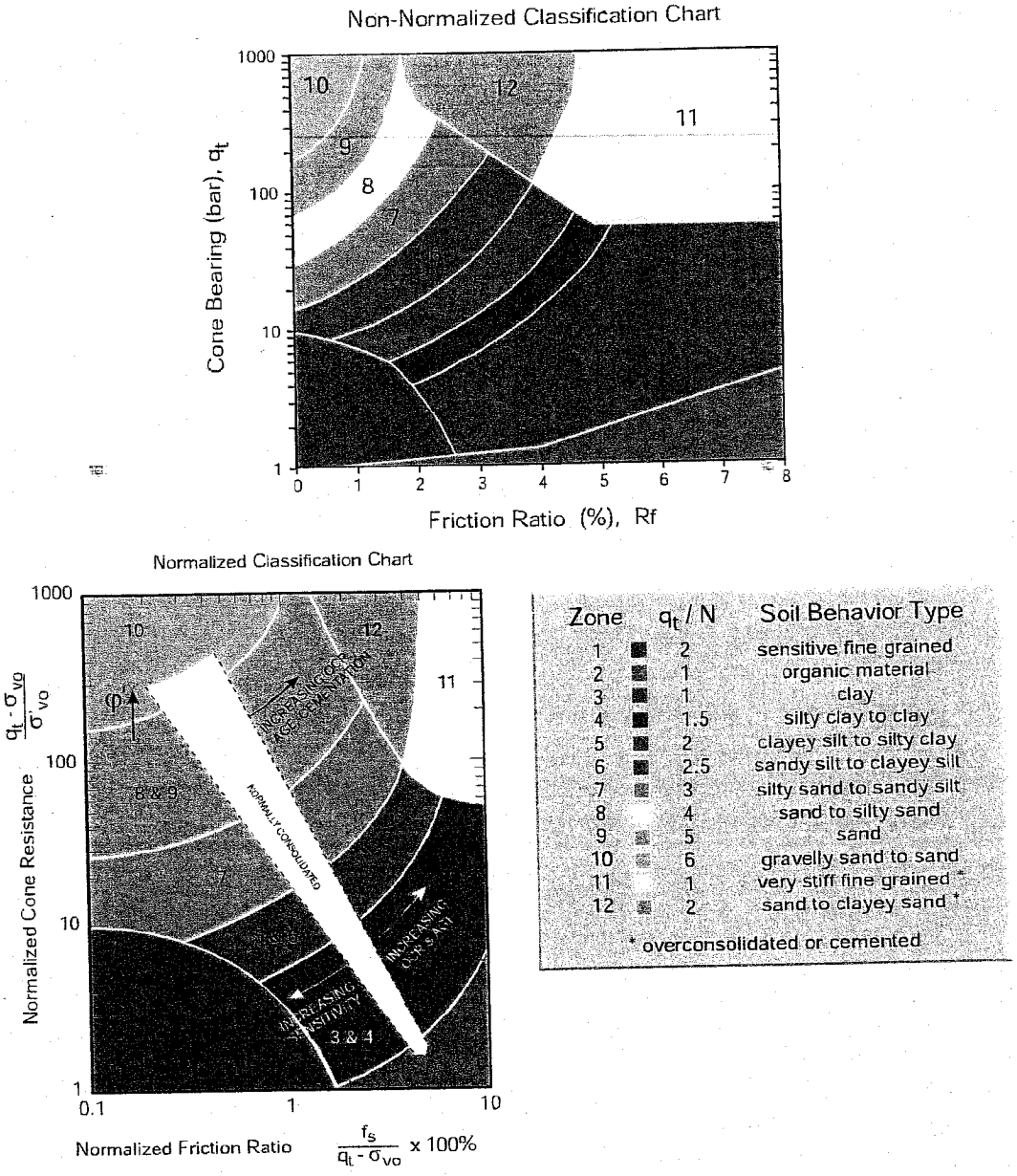

Figure 1 Non-Normalized and Normalized Soil Behaviour Type Classification Charts

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Table 2 References

No.	Reference
1	Robertson, P.K. and Campanella, R.G., 1986, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., Canada
2	Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.
3	Robertson, P.K. and Campanella, R.G., 1989, "Guidelines for Geotechnical Design Using CPT and CPTU", UBC, Soil Mechanics Series No. 120, Civil Eng. Dept., Vancouver, B.C., Canada
4	Robertson, P.K., 1990, "Soil Classification Using the Cone Penetration Test", Canadian Geotechnical Journal, Volume 27.
5	Robertson, P.K. and Fear, C.E., 1995, "Liquefaction of Sands and its Evaluation", Keynote Lecture, First International Conference on Earthquake Geotechnical Enginnering, Tokyo, Japan.
6	ConeTec Internal Report
7	Robertson, P.K. and Wride, C.E., 1997, "Cyclic Liquefaction and its Evaluation Based on SPT and CPT", NCEER Workshop Paper, January 22, 1997
8	Wride, C.E. and Robertson, P.K., 1997, "Phase II Data Review Report (Massey and Kidd Sites, Fraser River Delta)", Volume 1 - Data Report (June 1997), University of Alberta.
9	Plewes, H.D., Davies, M.P. and Jefferies, M.G., 1992, "CPT Based Screening Procedure for Evaluating Liquefaction Susceptibility", 45th Canadian Geotechnical Conference, Toronto, Ontario, October 1992.

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5225
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-1
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/22/03
CPT Time: 08:54
CPT File: 717CP001.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 8.41 (ft): 27.6
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.16	23.5	0.01	0.04	0.9	7	117.8	0.01	0.01	0.00	2.00	7.5	15.0	UnDef	0.09
0.49	71.6	0.17	0.24	2.4	8	120.9	0.03	0.03	0.00	2.00	17.1	34.3	UnDef	0.32
0.82	146.6	0.99	0.67	2.5	9	124.1	0.05	0.05	0.00	2.00	28.1	56.2	UnDef	0.00
1.15	232.0	1.51	0.65	2.0	9	124.1	0.07	0.07	0.00	2.00	44.4	88.9	UnDef	0.00
1.48	280.7	4.00	1.42	1.3	8	120.9	0.09	0.09	0.00	2.00	67.2	134.4	UnDef	0.00
[illegible]80	282.0	5.78	2.05	-2.0	8	120.9	0.11	0.11	0.00	2.00	67.5	135.0	UnDef	0.00
[illegible]13	289.1	5.07	1.75	-4.8	8	120.9	0.13	0.13	0.00	2.00	69.2	138.4	UnDef	0.00
2.46	320.8	5.97	1.86	-3.1	8	120.9	0.15	0.15	0.00	2.00	76.8	153.6	UnDef	0.00
2.79	312.2	7.98	2.56	-1.0	7	117.8	0.17	0.17	0.00	2.00	99.7	199.4	UnDef	0.00
3.12	255.0	6.83	2.68	-1.7	7	117.8	0.19	0.19	0.00	2.00	81.4	162.8	UnDef	0.00
3.44	265.9	4.31	1.62	-2.6	8	120.9	0.21	0.21	0.00	2.00	63.7	127.3	UnDef	0.00
3.77	285.6	2.97	1.04	-0.1	9	124.1	0.23	0.23	0.00	2.00	54.7	109.4	UnDef	0.00
4.10	362.5	4.26	1.17	0.2	9	124.1	0.25	0.25	0.00	2.00	69.4	138.8	UnDef	0.00
4.43	399.6	6.20	1.55	3.5	8	120.9	0.27	0.27	0.00	1.93	95.7	184.7	UnDef	0.00
4.76	401.4	7.58	1.89	3.3	8	120.9	0.29	0.29	0.00	1.86	96.1	179.0	UnDef	0.00
5.09	377.1	8.95	2.37	2.6	8	120.9	0.31	0.31	0.00	1.80	90.3	162.7	UnDef	0.00
5.41	351.8	6.90	1.96	-0.8	8	120.9	0.33	0.33	0.00	1.75	84.2	147.1	UnDef	0.00
5.74	395.0	8.27	2.09	0.4	8	120.9	0.35	0.35	0.00	1.70	94.6	160.4	UnDef	0.00
6.07	371.9	10.49	2.82	7.0	12	120.9	0.37	0.37	0.00	1.65	178.1	293.7	UnDef	0.00
6.40	325.2	7.85	2.41	5.2	7	117.8	0.39	0.39	0.00	1.61	103.8	166.9	UnDef	0.00
6.73	382.3	5.81	1.52	2.3	8	120.9	0.41	0.41	0.00	1.57	91.5	143.5	UnDef	0.00
7.05	503.2	8.61	1.71	3.2	8	120.9	0.43	0.43	0.00	1.53	120.5	184.5	UnDef	0.00
7.38	563.4	14.20	2.52	26.6	12	120.9	0.45	0.45	0.00	1.50	269.8	403.8	UnDef	0.00
7.79	490.0	14.97	3.05	44.5	12	120.9	0.47	0.47	0.00	1.46	234.6	341.8	UnDef	0.00
8.20	424.9	13.18	3.10	42.7	12	120.9	0.50	0.50	0.00	1.42	203.5	288.9	UnDef	0.00
8.53	349.7	11.51	3.29	40.9	12	120.9	0.52	0.52	0.00	1.39	167.5	233.2	UnDef	0.00
8.86	266.7	8.96	3.36	27.4	12	120.9	0.54	0.54	0.00	1.37	127.7	174.5	UnDef	0.00
9.19	204.0	6.22	3.05	19.5	7	117.8	0.56	0.56	0.00	1.34	65.1	87.4	UnDef	0.00
9.51	182.2	4.57	2.51	7.8	7	117.8	0.57	0.57	0.00	1.32	58.2	76.7	UnDef	0.00
9.84	190.7	3.96	2.08	6.0	7	117.8	0.59	0.59	0.00	1.30	60.9	79.0	UnDef	0.00
10.17	240.0	4.21	1.75	5.5	8	120.9	0.61	0.61	0.00	1.28	57.5	73.4	UnDef	0.00
10.50	264.2	5.88	2.23	6.6	7	117.8	0.63	0.63	0.00	1.26	84.3	106.0	UnDef	0.00
10.83	278.5	6.24	2.24	5.8	7	117.8	0.65	0.65	0.00	1.24	88.9	110.1	UnDef	0.00
11.15	323.9	8.52	2.63	8.2	7	117.8	0.67	0.67	0.00	1.22	103.4	126.2	UnDef	0.00
11.48	295.6	7.47	2.53	7.6	7	117.8	0.69	0.69	0.00	1.20	94.4	113.5	UnDef	0.00
11.81	262.0	6.37	2.43	4.7	7	117.8	0.71	0.71	0.00	1.19	83.6	99.2	UnDef	0.00
[illegible]14	246.2	6.38	2.59	3.2	7	117.8	0.73	0.73	0.00	1.17	78.6	92.0	UnDef	0.00
[illegible]47	233.1	6.29	2.70	3.9	7	117.8	0.75	0.75	0.00	1.16	74.4	86.0	UnDef	0.00
12.80	203.0	6.43	3.16	0.5	7	117.8	0.77	0.77	0.00	1.14	64.8	74.0	UnDef	0.00

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5225
CPT File: 717CP001.COR

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
13.12	176.8	5.71	3.23	1.1	6	114.6	0.79	0.79	0.00	1.13	67.7	76.3	14.08	0.00
13.45	150.1	4.82	3.21	1.3	6	114.6	0.81	0.81	0.00	1.11	57.5	64.0	11.94	0.00
13.78	127.6	3.98	3.12	1.4	6	114.6	0.82	0.82	0.00	1.10	48.9	53.8	10.14	0.00
14.11	115.5	3.27	2.83	0.6	6	114.6	0.84	0.84	0.00	1.09	44.3	48.2	9.18	0.00
14.44	118.0	3.18	2.69	0.6	7	117.8	0.86	0.86	0.00	1.08	37.7	40.6	UnDef	0.00
14.76	106.6	2.90	2.72	0.6	6	114.6	0.88	0.88	0.00	1.07	40.8	43.5	8.46	0.00
15.09	105.0	2.32	2.21	1.1	7	117.8	0.90	0.90	0.00	1.05	33.5	35.3	UnDef	0.42
15.42	110.2	2.38	2.16	1.6	7	117.8	0.92	0.92	0.00	1.04	35.2	36.7	UnDef	0.44
15.75	103.6	2.13	2.06	1.1	7	117.8	0.94	0.94	0.00	1.03	33.1	34.1	UnDef	0.38
16.08	88.3	1.90	2.16	1.3	7	117.8	0.96	0.96	0.00	1.02	28.2	28.8	UnDef	0.31
16.40	78.1	1.61	2.07	1.3	7	117.8	0.98	0.98	0.00	1.01	24.9	25.2	UnDef	0.26
16.73	75.4	1.33	1.76	1.6	7	117.8	1.00	1.00	0.00	1.00	24.1	24.1	UnDef	0.22
17.06	76.2	1.22	1.60	1.5	7	117.8	1.02	1.02	0.00	0.99	24.3	24.1	UnDef	0.20
17.39	62.1	1.01	1.62	1.4	7	117.8	1.04	1.04	0.00	0.98	19.8	19.5	UnDef	0.17
17.72	51.3	0.91	1.78	1.8	7	117.8	1.06	1.06	0.00	0.97	16.4	15.9	UnDef	0.16
18.04	44.6	0.79	1.78	2.4	7	117.8	1.07	1.07	0.00	0.96	14.2	13.7	UnDef	0.16
18.37	41.9	0.63	1.51	3.0	7	117.8	1.09	1.09	0.00	0.96	13.4	12.8	UnDef	0.14
18.70	48.2	0.62	1.28	1.9	7	117.8	1.11	1.11	0.00	0.95	15.4	14.6	UnDef	0.13
19.03	48.6	0.40	0.81	1.2	7	117.8	1.13	1.13	0.00	0.94	15.5	14.6	UnDef	0.11
19.36	35.3	0.25	0.70	1.8	7	117.8	1.15	1.15	0.00	0.93	11.3	10.5	UnDef	0.10
19.68	33.0	0.33	1.00	1.8	7	117.8	1.17	1.17	0.00	0.92	10.5	9.7	UnDef	0.11
20.01	32.8	0.37	1.13	1.7	7	117.8	1.19	1.19	0.00	0.92	10.5	9.6	UnDef	0.11
20.34	23.9	0.38	1.58	0.5	6	114.6	1.21	1.21	0.00	0.91	9.1	8.3	1.81	0.19
20.67	13.4	0.26	1.91	6.1	5	114.6	1.23	1.23	0.00	0.90	6.4	5.8	0.97	0.10
21.00	26.8	0.36	1.35	15.6	6	114.6	1.25	1.25	0.00	0.90	10.3	9.2	2.04	0.16
21.33	44.2	0.63	1.43	4.7	7	117.8	1.27	1.27	0.00	0.89	14.1	12.5	UnDef	0.14
21.65	46.7	0.84	1.80	4.6	7	117.8	1.29	1.29	0.00	0.88	14.9	13.1	UnDef	0.18
[illegible]98	44.2	0.83	1.87	9.9	7	117.8	1.30	1.30	0.00	0.88	14.1	12.3	UnDef	0.19
[illegible]31	45.9	0.87	1.90	16.6	7	117.8	1.32	1.32	0.00	0.87	14.6	12.7	UnDef	0.20
22.64	45.1	0.88	1.95	13.7	6	114.6	1.34	1.34	0.00	0.86	17.3	14.9	3.50	0.21
22.97	46.0	1.03	2.23	17.7	6	114.6	1.36	1.36	0.00	0.86	17.6	15.1	3.57	0.28
23.29	53.9	0.98	1.82	13.7	7	117.8	1.38	1.38	0.00	0.85	17.2	14.6	UnDef	0.19
23.62	59.4	1.09	1.83	10.8	7	117.8	1.40	1.40	0.00	0.85	19.0	16.0	UnDef	0.20
23.95	66.6	1.04	1.56	12.7	7	117.8	1.42	1.42	0.00	0.84	21.3	17.9	UnDef	0.18
24.28	69.1	0.90	1.30	5.5	7	117.8	1.44	1.44	0.00	0.83	22.1	18.4	UnDef	0.16
24.61	38.8	0.77	1.98	3.2	6	114.6	1.46	1.46	0.00	0.83	14.9	12.3	2.99	0.32
24.93	23.4	0.51	2.17	11.8	6	114.6	1.48	1.48	0.00	0.82	9.0	7.4	1.75	0.16
25.26	21.6	0.42	1.93	37.7	6	114.6	1.50	1.50	0.00	0.82	8.3	6.8	1.61	0.14
25.59	22.5	0.43	1.92	29.3	6	114.6	1.51	1.51	0.00	0.81	8.6	7.0	1.68	0.15
25.92	17.4	0.33	1.90	20.4	6	114.6	1.53	1.53	0.00	0.81	6.7	5.4	1.27	0.11
26.25	13.1	0.16	1.18	24.4	6	114.6	1.55	1.55	0.00	0.80	5.0	4.0	0.93	0.09
26.57	11.8	0.11	0.89	50.7	6	114.6	1.57	1.57	0.00	0.80	4.5	3.6	0.82	0.09
26.90	24.1	0.34	1.41	44.6	6	114.6	1.59	1.59	0.00	0.79	9.2	7.3	1.80	0.16
27.23	34.0	0.45	1.31	22.3	7	117.8	1.61	1.61	0.00	0.79	10.8	8.5	UnDef	0.20
27.56	31.6	0.48	1.52	13.8	6	114.6	1.63	1.63	0.00	0.78	12.1	9.5	2.40	0.25
27.89	26.1	0.55	2.11	32.8	6	114.6	1.65	1.64	0.01	0.78	10.0	7.8	1.96	0.17
28.21	29.3	0.56	1.90	31.5	6	114.6	1.67	1.65	0.02	0.78	11.2	8.8	2.21	0.21
28.54	23.2	0.45	1.95	37.8	6	114.6	1.68	1.65	0.03	0.78	8.9	6.9	1.72	0.14
28.87	15.8	0.39	2.44	54.1	5	114.6	1.70	1.66	0.04	0.78	7.6	5.9	1.13	0.10
29.20	22.3	0.40	1.80	36.9	6	114.6	1.72	1.67	0.05	0.77	8.5	6.6	1.65	0.14
29.53	25.1	0.47	1.85	19.2	6	114.6	1.74	1.68	0.06	0.77	9.6	7.4	1.87	0.16
29.86	32.7	0.50	1.53	28.8	6	114.6	1.76	1.69	0.07	0.77	12.5	9.6	2.47	0.25
30.18	26.6	0.49	1.84	18.5	6	114.6	1.78	1.70	0.08	0.77	10.2	7.8	1.99	0.17
30.59	25.6	0.45	1.76	34.8	6	114.6	1.80	1.71	0.09	0.77	9.8	7.5	1.90	0.16
31.00	26.3	0.42	1.58	25.8	6	114.6	1.83	1.72	0.11	0.76	10.1	7.7	1.96	0.17
31.33	15.8	0.33	2.09	39.3	5	114.6	1.84	1.73	0.12	0.76	7.6	5.8	1.12	0.10
31.66	28.3	0.42	1.47	47.5	6	114.6	1.86	1.74	0.13	0.76	10.8	8.2	2.11	0.19
31.99	41.7	0.43	1.03	16.2	7	117.8	1.88	1.75	0.14	0.76	13.3	10.1	UnDef	0.14
[illegible]32	26.6	0.38	1.41	29.7	6	114.6	1.90	1.75	0.15	0.76	10.2	7.7	1.98	0.17
[illegible].64	19.2	0.47	2.43	16.8	5	114.6	1.92	1.76	0.16	0.75	9.2	6.9	1.38	0.11
32.97	49.5	0.50	1.00	31.3	7	117.8	1.94	1.77	0.17	0.75	15.8	11.9	UnDef	0.13
33.30	92.0	1.00	1.09	12.0	8	120.9	1.96	1.78	0.18	0.75	22.0	16.5	UnDef	0.18

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
33.63	184.3	2.64	1.43	8.7	8	120.9	1.98	1.79	0.19	0.75	44.1	33.0	UnDef	0.00
33.96	246.0	5.32	2.16	-1.1	7	117.8	2.00	1.80	0.20	0.75	78.5	58.5	UnDef	0.00
34.28	273.1	7.42	2.72	-2.1	7	117.8	2.02	1.81	0.21	0.74	87.2	64.8	UnDef	0.00
34.61	306.1	6.82	2.23	-3.0	8	120.9	2.04	1.82	0.22	0.74	73.3	54.4	UnDef	0.00
34.94	382.2	6.47	1.69	-0.9	8	120.9	2.06	1.83	0.23	0.74	91.5	67.7	UnDef	0.00
35.27	401.6	5.98	1.49	-1.4	8	120.9	2.08	1.84	0.24	0.74	96.2	71.0	UnDef	0.00
35.60	434.7	5.68	1.31	-2.3	9	124.1	2.10	1.85	0.25	0.74	83.3	61.3	UnDef	0.00
35.92	407.8	6.95	1.70	0.0	8	120.9	2.12	1.86	0.26	0.73	97.6	71.7	UnDef	0.00
36.25	399.1	8.60	2.15	0.1	8	120.9	2.14	1.87	0.27	0.73	95.6	70.0	UnDef	0.00
36.58	388.6	8.44	2.17	0.5	8	120.9	2.16	1.88	0.28	0.73	93.0	67.9	UnDef	0.00
36.91	401.1	9.28	2.31	0.9	8	120.9	2.18	1.89	0.29	0.73	96.0	69.9	UnDef	0.00
37.24	413.6	10.49	2.54	-0.2	12	120.9	2.20	1.90	0.30	0.73	198.1	143.9	UnDef	0.00
37.57	414.9	10.01	2.41	0.7	12	120.9	2.22	1.90	0.31	0.72	198.7	144.0	UnDef	0.00
37.89	422.8	10.95	2.59	0.2	12	120.9	2.24	1.91	0.32	0.72	202.5	146.3	UnDef	0.00
38.22	419.7	9.51	2.27	-0.9	8	120.9	2.26	1.92	0.33	0.72	100.5	72.5	UnDef	0.00
38.55	402.9	9.52	2.36	-0.9	8	120.9	2.28	1.93	0.34	0.72	96.5	69.4	UnDef	0.00
38.88	388.5	8.78	2.26	-1.9	8	120.9	2.30	1.94	0.35	0.72	93.0	66.7	UnDef	0.00
39.21	374.3	10.26	2.74	3.2	12	120.9	2.31	1.95	0.36	0.72	179.2	128.3	UnDef	0.00
39.53	373.9	11.07	2.96	1.9	12	120.9	2.33	1.96	0.37	0.71	179.0	127.8	UnDef	0.00
39.86	327.0	10.61	3.24	-0.1	12	120.9	2.35	1.97	0.38	0.71	156.6	111.5	UnDef	0.00
40.19	280.9	7.21	2.57	-2.4	7	117.8	2.37	1.98	0.39	0.71	89.7	63.7	UnDef	0.00
40.52	255.5	6.00	2.35	-3.7	7	117.8	2.39	1.99	0.40	0.71	81.6	57.8	UnDef	0.00
40.85	251.9	7.16	2.84	-1.8	7	117.8	2.41	2.00	0.41	0.71	80.4	56.9	UnDef	0.00
41.17	251.6	6.05	2.41	-1.3	7	117.8	2.43	2.01	0.42	0.71	80.3	56.7	UnDef	0.00
41.50	255.3	4.18	1.64	-2.8	8	120.9	2.45	2.02	0.43	0.70	61.1	43.0	UnDef	0.00
41.83	236.5	4.95	2.09	-0.4	8	120.9	2.47	2.03	0.44	0.70	56.6	39.8	UnDef	0.00
42.16	222.2	5.69	2.56	0.1	7	117.8	2.49	2.04	0.45	0.70	70.9	49.7	UnDef	0.00
42.49	208.9	6.23	2.98	10.3	7	117.8	2.51	2.05	0.46	0.70	66.7	46.6	UnDef	0.00
42.81	192.1	5.71	2.97	5.2	7	117.8	2.53	2.06	0.47	0.70	61.3	42.8	UnDef	0.00
43.14	202.1	5.86	2.90	3.3	7	117.8	2.55	2.06	0.48	0.70	64.5	44.9	UnDef	0.00
43.47	195.1	5.44	2.79	0.7	7	117.8	2.57	2.07	0.50	0.69	62.3	43.3	UnDef	0.00
43.80	199.6	5.72	2.86	-0.9	7	117.8	2.59	2.08	0.51	0.69	63.7	44.2	UnDef	0.00
44.13	182.1	5.52	3.03	-3.2	7	117.8	2.61	2.09	0.52	0.69	58.1	40.2	UnDef	0.00
44.45	173.3	4.80	2.77	-4.9	7	117.8	2.63	2.10	0.53	0.69	55.3	38.2	UnDef	0.00
44.78	175.5	4.62	2.63	-5.3	7	117.8	2.65	2.11	0.54	0.69	56.0	38.6	UnDef	0.00
45.11	168.4	4.25	2.52	-5.8	7	117.8	2.67	2.12	0.55	0.69	53.8	36.9	UnDef	0.00
45.44	160.5	3.38	2.11	-6.7	7	117.8	2.68	2.13	0.56	0.69	51.2	35.1	UnDef	0.00
45.77	102.0	2.84	2.78	13.4	6	114.6	2.70	2.14	0.57	0.68	39.1	26.7	7.95	0.00
46.10	82.9	2.39	2.88	31.7	6	114.6	2.72	2.15	0.58	0.68	31.8	21.7	6.41	0.00
46.42	99.4	2.23	2.24	47.0	7	117.8	2.74	2.15	0.59	0.68	31.7	21.6	UnDef	0.45
46.75	111.7	2.15	1.92	38.7	7	117.8	2.76	2.16	0.60	0.68	35.7	24.2	UnDef	0.38
47.08	103.5	1.98	1.92	35.0	7	117.8	2.78	2.17	0.61	0.68	33.0	22.4	UnDef	0.36
47.41	98.3	1.55	1.58	37.8	7	117.8	2.80	2.18	0.62	0.68	31.4	21.2	UnDef	0.27
47.74	87.8	1.63	1.86	45.7	7	117.8	2.82	2.19	0.63	0.68	28.0	18.9	UnDef	0.33
48.06	88.5	1.74	1.97	46.7	7	117.8	2.84	2.20	0.64	0.67	28.2	19.0	UnDef	0.36
48.39	80.6	1.43	1.77	44.5	7	117.8	2.86	2.21	0.65	0.67	25.7	17.3	UnDef	0.30
48.72	68.4	1.05	1.54	57.9	7	117.8	2.88	2.22	0.66	0.67	21.8	14.7	UnDef	0.25
49.05	50.2	0.68	1.35	41.0	7	117.8	2.90	2.23	0.67	0.67	16.0	10.7	UnDef	0.27
49.38	30.7	0.41	1.32	88.9	6	114.6	2.91	2.24	0.68	0.67	11.8	7.9	2.23	0.17
49.70	23.8	0.12	0.48	103.5	7	117.8	2.93	2.24	0.69	0.67	7.6	5.1	UnDef	0.12

eTec Inc. - CPT Interpretation
erpretation Output - Release 1.00.19M
. No: 04-0401-1123-5225
) No: 04-717
ent: MACTEC
oject: TVA Kingston
:e: CPT-1
:ation: TVA Kingston
ne: 20 TON AD142
T Date: 04/22/03
T Time: 08:54
T File: 717CP001.COR
rthing (m): 0.000
sting (m): 0.000
evation (m): 0.000

Water Table (m): 8.41 (ft): 27.6
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-04	0.00	1000.0	0.04	10	45.0	0.0	45.0	0.0	50	91.7	1.0	-0.12	0.0	15.0
0.49	5.0E-03	0.00	1000.0	0.24	10	137.1	0.0	137.1	0.0	50	95.0	1.0	-0.26	0.0	34.3
0.82	5.0E-02	0.00	1000.0	0.67	10	280.8	0.0	280.8	0.0	50	95.0	1.0	-0.36	0.0	56.2
1.15	5.0E-02	0.00	1000.0	0.65	10	444.3	0.0	444.3	0.0	50	95.0	1.0	-0.36	0.0	88.9
1.48	5.0E-03	0.00	1000.0	1.43	12	537.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.45	UnDef	UnDef
1.80	5.0E-03	0.00	1000.0	2.05	12	540.2	UnDef	UnDef	0.0	50	95.0	1.0	-0.52	UnDef	UnDef
2.13	5.0E-03	0.00	1000.0	1.76	12	553.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.49	UnDef	UnDef
2.46	5.0E-03	0.00	1000.0	1.86	12	614.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.50	UnDef	UnDef
2.79	5.0E-04	0.00	1000.0	2.56	12	598.1	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
3.12	5.0E-04	0.00	1000.0	2.68	12	488.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.59	UnDef	UnDef
3.44	5.0E-03	0.00	1000.0	1.62	12	509.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.47	UnDef	UnDef
3.77	5.0E-02	0.00	1000.0	1.04	9	547.0	0.0	547.0	0.6	50	95.0	1.0	-0.41	0.0	109.4
4.10	5.0E-02	0.00	1000.0	1.17	9	694.2	0.0	694.2	1.2	50	95.0	1.0	-0.43	0.0	138.8
4.43	5.0E-03	0.00	1000.0	1.55	12	754.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.47	UnDef	UnDef
4.76	5.0E-03	0.00	1000.0	1.89	12	731.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.50	UnDef	UnDef
5.09	5.0E-03	0.00	1000.0	2.37	12	664.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.55	UnDef	UnDef
5.41	5.0E-03	0.00	1000.0	1.96	12	601.2	UnDef	UnDef	0.0	50	95.0	1.0	-0.51	UnDef	UnDef
5.74	5.0E-03	0.00	1000.0	2.10	12	655.4	UnDef	UnDef	0.0	50	95.0	1.0	-0.52	UnDef	UnDef
6.07	1.0E-15	0.00	1000.0	2.82	12	600.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.61	UnDef	UnDef
6.40	5.0E-04	0.00	839.1	2.42	12	511.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.54	UnDef	UnDef
6.73	5.0E-03	0.00	939.1	1.52	12	586.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.46	UnDef	UnDef
7.05	5.0E-03	0.00	1000.0	1.71	12	754.0	UnDef	UnDef	0.0	50	95.0	1.0	-0.48	UnDef	UnDef
7.38	1.0E-15	0.00	1000.0	2.52	12	825.2	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
7.79	1.0E-15	0.00	1000.0	3.06	12	698.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.63	UnDef	UnDef
8.20	1.0E-15	0.00	855.8	3.11	12	590.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.62	UnDef	UnDef
8.53	1.0E-15	0.00	677.0	3.30	12	476.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.61	UnDef	UnDef
8.86	1.0E-15	0.00	496.9	3.37	12	356.6	UnDef	UnDef	0.0	48	95.0	1.0	-0.58	UnDef	UnDef
9.19	5.0E-04	0.00	366.4	3.05	12	267.9	UnDef	UnDef	0.0	48	95.0	1.0	-0.51	UnDef	UnDef
9.51	5.0E-04	0.00	316.1	2.52	12	235.2	UnDef	UnDef	0.0	46	91.8	1.0	-0.43	UnDef	UnDef
9.84	5.0E-04	0.00	320.1	2.08	9	242.2	24.7	266.9	8.5	46	92.6	1.0	-0.40	4.9	83.9
10.17	5.0E-03	0.00	390.2	1.76	9	299.9	10.5	310.4	6.3	48	95.0	1.0	-0.39	1.6	75.0
10.50	5.0E-04	0.00	416.3	2.23	12	324.9	UnDef	UnDef	0.0	48	95.0	1.0	-0.44	UnDef	UnDef
10.83	5.0E-04	0.00	426.0	2.24	12	337.5	UnDef	UnDef	0.0	48	95.0	1.0	-0.44	UnDef	UnDef
11.15	5.0E-04	0.00	481.3	2.64	12	386.8	UnDef	UnDef	0.0	48	95.0	1.0	-0.50	UnDef	UnDef
11.48	5.0E-04	0.00	426.9	2.53	12	348.1	UnDef	UnDef	0.0	48	95.0	1.0	-0.47	UnDef	UnDef
11.81	5.0E-04	0.00	367.8	2.44	12	304.2	UnDef	UnDef	0.0	48	95.0	1.0	-0.45	UnDef	UnDef
12.14	5.0E-04	0.00	336.4	2.60	12	282.1	UnDef	UnDef	0.0	48	95.0	1.0	-0.45	UnDef	UnDef
12.47	5.0E-04	0.00	310.2	2.71	12	263.5	UnDef	UnDef	0.0	46	95.0	1.0	-0.45	UnDef	UnDef
12.80	5.0E-04	0.00	263.3	3.18	12	226.7	UnDef	UnDef	0.0	46	90.7	1.0	-0.48	UnDef	UnDef

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5225
CPT File: 717CP001.COR

[redacted]ch (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-05	0.00	223.5	3.25	12	195.0	UnDef	UnDef	0.0	46	86.4	10.0	-0.46	UnDef	UnDef
13.45	5.0E-05	0.00	185.2	3.23	12	163.6	UnDef	UnDef	0.0	44	81.4	10.0	-0.44	UnDef	UnDef
13.78	5.0E-05	0.00	153.7	3.14	12	137.5	UnDef	UnDef	0.0	44	76.4	10.0	-0.40	UnDef	UnDef
14.11	5.0E-05	0.00	135.9	2.85	7	123.1	59.1	182.2	17.1	44	73.2	10.0	-0.36	12.3	60.4
14.44	5.0E-04	0.00	135.8	2.71	7	124.3	55.9	180.2	16.6	44	73.5	1.0	-0.35	9.8	50.3
14.76	5.0E-05	0.00	119.9	2.74	7	111.1	57.8	168.9	17.8	42	70.3	10.0	-0.34	11.8	55.3
15.09	5.0E-04	0.00	115.6	2.23	7	108.3	45.1	153.4	16.0	42	69.6	1.0	-0.30	8.0	43.3
15.42	5.0E-04	0.00	118.8	2.17	7	112.5	44.0	156.5	15.5	42	70.6	1.0	-0.30	7.8	44.5
15.75	5.0E-04	0.00	109.3	2.08	7	104.6	42.5	147.1	15.8	42	68.6	1.0	-0.28	7.5	41.6
16.08	5.0E-04	0.00	91.0	2.18	7	88.2	47.0	135.3	18.0	42	63.7	1.0	-0.27	8.0	36.8
16.40	5.0E-04	0.00	78.8	2.09	7	77.3	46.5	123.7	19.1	42	59.9	1.0	-0.24	7.7	32.9
16.73	5.0E-04	0.00	74.6	1.79	7	73.9	39.6	113.5	18.1	40	58.6	1.0	-0.22	6.7	30.8
17.06	5.0E-04	0.00	74.0	1.62	7	74.0	35.9	109.9	17.2	40	58.6	1.0	-0.21	6.2	30.3
17.39	5.0E-04	0.00	59.0	1.65	7	59.7	39.3	99.0	19.9	40	52.5	1.0	-0.18	6.4	25.9
17.72	5.0E-04	0.00	47.6	1.82	7	48.9	47.3	96.1	23.4	38	46.8	1.0	-0.17	7.1	23.0
18.04	5.0E-04	0.00	40.5	1.82	7	42.1	51.3	93.4	25.6	38	42.5	1.0	-0.16	7.2	20.9
18.37	5.0E-04	0.00	37.3	1.55	7	39.2	44.9	84.1	25.0	38	40.4	1.0	-0.13	6.4	19.2
18.70	5.0E-04	0.00	42.3	1.31	7	44.7	36.0	80.7	21.7	38	44.2	1.0	-0.13	5.6	20.2
19.03	5.0E-04	0.00	41.9	0.83	7	44.7	23.9	68.6	18.1	38	44.2	1.0	-0.09	4.1	18.6
19.36	5.0E-04	0.00	29.7	0.72	7	32.2	25.1	57.3	21.4	36	34.8	1.0	-0.05	4.0	14.5
19.68	5.0E-04	0.00	27.1	1.04	7	29.8	36.9	66.7	25.7	36	32.6	1.0	-0.07	5.1	14.9
20.01	5.0E-04	0.00	26.5	1.17	7	29.4	42.7	72.1	27.2	36	32.2	1.0	-0.07	5.6	15.2
20.34	5.0E-05	0.00	18.7	1.66	6	21.2	84.9	106.2	36.7	32	30.0	8.5	-0.07	8.3	16.6
20.67	5.0E-06	0.02	9.9	2.11	6	11.8	47.2	58.9	53.1	UnDef	UnDef	3.2	UnDef	5.8	11.5
21.00	5.0E-05	0.02	20.5	1.41	7	23.5	72.3	95.8	33.3	34	30.0	9.8	-0.06	8.2	17.4
21.33	5.0E-04	0.00	33.9	1.47	7	38.4	48.0	86.5	25.8	36	39.9	1.0	-0.12	6.7	19.2
21.65	5.0E-04	0.00	35.3	1.85	7	40.3	61.9	102.2	27.7	38	41.2	1.0	-0.14	8.0	21.2
[redacted]98	5.0E-04	0.01	32.8	1.93	7	37.8	69.1	106.9	29.2	36	39.4	1.0	-0.14	8.4	20.7
[redacted]31	5.0E-04	0.01	33.6	1.96	7	39.0	69.7	108.7	29.0	36	40.3	1.0	-0.14	8.5	21.2
22.64	5.0E-05	0.01	32.5	2.01	7	38.1	74.5	112.5	29.8	36	39.6	10.0	-0.14	10.5	25.4
22.97	5.0E-05	0.01	32.8	2.30	6	38.6	91.3	129.9	31.3	36	40.0	10.0	-0.16	11.9	27.0
23.29	5.0E-04	0.01	38.0	1.87	7	44.8	62.1	107.0	26.8	38	44.3	1.0	-0.15	8.3	23.0
23.62	5.0E-04	0.01	41.4	1.87	7	49.1	59.9	109.0	25.6	38	46.9	1.0	-0.16	8.4	24.4
23.95	5.0E-04	0.01	45.9	1.59	7	54.7	48.1	102.8	22.5	38	50.0	1.0	-0.16	7.4	25.2
24.28	5.0E-04	0.00	47.0	1.33	7	56.4	40.0	96.4	20.5	38	50.9	1.0	-0.14	6.4	24.8
24.61	5.0E-05	0.00	25.6	2.05	6	31.4	105.6	137.0	33.9	34	34.1	10.0	-0.12	11.5	23.8
24.93	5.0E-05	0.02	14.8	2.31	6	18.8	75.3	94.1	45.5	32	30.0	5.9	-0.07	7.4	14.7
25.26	5.0E-05	0.06	13.4	2.07	6	17.3	69.2	86.4	46.0	32	30.0	5.1	-0.04	6.8	13.5
25.59	5.0E-05	0.04	13.8	2.06	6	17.9	71.4	89.3	45.3	32	30.0	5.3	-0.05	7.0	14.0
25.92	5.0E-05	0.04	10.4	2.08	6	13.8	55.0	68.8	51.8	30	30.0	3.4	-0.02	5.4	10.8
26.25	5.0E-05	0.07	7.4	1.34	6	10.3	41.2	51.5	53.7	30	30.0	2.2	0.05	4.0	8.1
26.57	5.0E-05	0.16	6.5	1.03	6	9.2	36.8	45.9	53.9	30	30.0	1.8	0.09	3.6	7.2
26.90	5.0E-05	0.06	14.2	1.51	6	18.7	74.8	93.5	40.9	32	30.0	5.5	-0.03	7.3	14.6
27.23	5.0E-04	0.02	20.1	1.38	7	26.2	81.4	107.6	33.3	34	30.0	1.0	-0.06	7.7	16.2
27.56	5.0E-05	0.01	18.4	1.61	6	24.2	96.9	121.2	36.6	32	30.0	8.3	-0.06	9.5	19.0
27.89	5.0E-05	0.04	14.9	2.26	6	19.9	79.8	99.7	45.0	32	30.0	6.0	-0.06	7.8	15.6
28.21	5.0E-05	0.03	16.8	2.01	6	22.4	89.4	111.8	41.2	32	30.0	7.2	-0.07	8.8	17.5
28.54	5.0E-05	0.05	13.0	2.10	6	17.6	70.5	88.2	46.9	30	30.0	4.8	-0.04	6.9	13.8
28.87	5.0E-06	0.12	8.5	2.73	4	12.0	48.1	60.1	60.7	UnDef	UnDef	2.6	UnDef	5.9	11.8
29.20	5.0E-05	0.05	12.3	1.95	6	16.9	67.5	84.4	47.0	30	30.0	4.5	-0.03	6.6	13.2
29.53	5.0E-05	0.02	13.9	1.99	6	19.0	75.9	94.9	44.8	32	30.0	5.4	-0.05	7.4	14.9
29.86	5.0E-05	0.03	18.3	1.62	6	24.6	98.4	123.0	36.8	32	30.0	8.2	-0.06	9.6	19.3
30.18	5.0E-05	0.02	14.6	1.98	6	20.0	80.0	100.0	43.6	32	30.0	5.8	-0.05	7.8	15.7
30.59	5.0E-05	0.04	13.9	1.90	6	19.2	76.6	95.8	44.1	32	30.0	5.4	-0.04	7.5	15.0
31.00	5.0E-05	0.03	14.3	1.70	6	19.7	78.7	98.3	42.2	32	30.0	5.6	-0.04	7.7	15.4
31.33	5.0E-06	0.08	8.1	2.37	4	11.8	47.1	58.8	59.7	UnDef	UnDef	2.4	UnDef	5.8	11.5
31.66	5.0E-05	0.05	15.2	1.58	6	21.0	84.0	105.0	40.0	32	30.0	6.1	-0.04	8.2	16.4
31.99	5.0E-04	0.01	22.8	1.08	7	30.9	53.7	84.6	28.8	34	33.6	1.0	-0.05	6.6	16.7
[redacted]32	5.0E-05	0.03	14.1	1.52	6	19.7	78.7	98.3	41.1	32	30.0	5.5	-0.03	7.7	15.4
[redacted]64	5.0E-06	0.02	9.8	2.70	4	14.2	56.7	70.8	57.0	UnDef	UnDef	3.2	UnDef	6.9	13.9
32.97	5.0E-04	0.02	26.8	1.04	7	36.4	46.0	82.4	25.9	36	38.3	1.0	-0.06	6.4	18.2
33.30	5.0E-03	0.00	50.6	1.11	7	67.5	36.4	103.8	18.1	38	56.0	1.0	-0.13	4.6	21.1

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5225
CPT File: 717CP001.COR

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-03	0.00	101.8	1.45	9	134.8	38.0	172.8	13.2	42	75.8	1.0	-0.23	5.3	38.2
33.96	5.0E-04	0.00	135.6	2.18	7	179.5	60.6	240.1	14.5	44	84.0	1.0	-0.31	11.0	69.5
34.28	5.0E-04	0.00	149.9	2.74	7	198.8	81.5	280.2	15.9	44	87.0	1.0	-0.37	14.4	79.3
34.61	5.0E-03	0.00	167.3	2.24	7	222.2	61.3	283.5	13.1	44	90.2	1.0	-0.34	8.5	62.9
34.94	5.0E-03	0.00	208.0	1.70	9	276.6	35.7	312.3	9.3	46	95.0	1.0	-0.32	5.2	72.9
35.27	5.0E-03	0.00	217.5	1.50	9	290.0	25.8	315.8	8.1	46	95.0	1.0	-0.31	3.8	74.8
35.60	5.0E-02	0.00	234.2	1.31	9	313.0	15.3	328.3	6.7	46	95.0	1.0	-0.30	1.8	63.1
35.92	5.0E-03	0.00	218.5	1.71	9	292.9	35.3	328.2	9.0	46	95.0	1.0	-0.33	5.2	76.8
36.25	5.0E-03	0.00	212.7	2.17	9	285.9	55.9	341.8	11.1	46	95.0	1.0	-0.36	8.0	77.9
36.58	5.0E-03	0.00	206.0	2.18	9	277.6	57.3	334.9	11.4	46	95.0	1.0	-0.36	8.1	76.1
36.91	5.0E-03	0.00	211.5	2.33	9	285.8	63.4	349.2	11.8	46	95.0	1.0	-0.37	9.0	78.9
37.24	1.0E-15	0.00	217.1	2.55	7	294.0	73.4	367.4	12.5	46	95.0	1.0	-0.39	20.5	164.4
37.57	1.0E-15	0.00	216.6	2.43	9	294.2	67.9	362.1	12.0	46	95.0	1.0	-0.38	19.1	163.1
37.89	1.0E-15	0.00	219.7	2.60	7	299.1	76.1	375.2	12.6	46	95.0	1.0	-0.40	21.3	167.6
38.22	5.0E-03	0.00	217.0	2.28	9	296.1	61.5	357.7	11.4	46	95.0	1.0	-0.37	8.7	81.2
38.55	5.0E-03	0.00	207.2	2.38	9	283.6	66.7	350.3	12.1	46	95.0	1.0	-0.37	9.4	78.8
38.88	5.0E-03	0.00	198.7	2.27	9	272.7	62.8	335.5	12.0	46	95.0	1.0	-0.36	8.8	75.6
39.21	1.0E-15	0.00	190.5	2.76	7	262.1	84.7	346.8	14.1	44	94.9	1.0	-0.40	23.1	151.4
39.53	1.0E-15	0.00	189.3	2.98	12	261.2	UnDef	UnDef	0.0	44	94.8	1.0	-0.42	UnDef	UnDef
39.86	1.0E-15	0.00	164.6	3.27	12	227.9	UnDef	UnDef	0.0	44	90.9	1.0	-0.42	UnDef	UnDef
40.19	5.0E-04	0.00	140.6	2.59	7	195.3	79.6	274.9	15.8	44	86.5	1.0	-0.35	14.1	77.8
40.52	5.0E-04	0.00	127.1	2.37	7	177.2	71.9	249.1	15.8	44	83.7	1.0	-0.32	12.7	70.5
40.85	5.0E-04	0.00	124.8	2.87	7	174.3	92.2	266.5	18.0	42	83.2	1.0	-0.35	15.7	72.6
41.17	5.0E-04	0.00	124.1	2.43	7	173.7	74.7	248.4	16.3	42	83.1	1.0	-0.32	13.1	69.8
41.50	5.0E-03	0.00	125.3	1.65	9	175.9	44.9	220.8	12.6	44	83.5	1.0	-0.26	6.3	49.3
41.83	5.0E-03	0.00	115.4	2.11	7	162.5	63.4	226.0	15.5	42	81.2	1.0	-0.29	8.5	48.2
42.16	5.0E-04	0.00	107.9	2.59	7	152.4	82.8	235.2	18.2	42	79.3	1.0	-0.32	14.0	63.7
[illegible]49	5.0E-04	0.00	100.9	3.02	7	142.9	101.3	244.2	20.5	42	77.5	1.0	-0.34	16.3	62.9
[illegible]81	5.0E-04	0.00	92.2	3.01	7	131.1	102.4	233.5	21.4	42	75.0	1.0	-0.33	16.2	58.9
43.14	5.0E-04	0.00	96.7	2.94	7	137.7	98.7	236.3	20.6	42	76.4	1.0	-0.33	15.9	60.8
43.47	5.0E-04	0.00	92.9	2.83	7	132.6	94.8	227.4	20.6	42	75.4	1.0	-0.31	15.3	58.5
43.80	5.0E-04	0.00	94.6	2.90	7	135.4	98.0	233.3	20.7	42	76.0	1.0	-0.32	15.7	59.9
44.13	5.0E-04	0.00	85.8	3.08	7	123.2	107.3	230.5	22.4	42	73.3	1.0	-0.32	16.5	56.7
44.45	5.0E-04	0.00	81.3	2.81	7	117.0	96.8	213.9	22.0	42	71.8	1.0	-0.30	15.1	53.3
44.78	5.0E-04	0.00	81.9	2.67	7	118.2	90.9	209.1	21.3	42	72.1	1.0	-0.29	14.4	53.0
45.11	5.0E-04	0.00	78.2	2.56	7	113.2	87.3	200.5	21.3	42	70.8	1.0	-0.28	13.8	50.8
45.44	5.0E-04	0.00	74.2	2.14	7	107.7	71.5	179.1	19.9	40	69.4	1.0	-0.24	11.7	46.8
45.77	5.0E-05	0.00	46.5	2.86	6	68.3	121.6	189.9	29.0	38	56.4	10.0	-0.23	17.9	44.6
46.10	5.0E-05	0.01	37.4	2.98	6	55.4	156.9	212.3	32.7	38	50.3	10.0	-0.21	18.6	40.3
46.42	5.0E-04	0.01	44.9	2.31	7	66.3	92.8	159.1	26.9	38	55.5	1.0	-0.19	12.4	34.0
46.75	5.0E-04	0.01	50.4	1.97	7	74.3	73.1	147.4	23.6	38	58.8	1.0	-0.19	10.9	35.1
47.08	5.0E-04	0.00	46.4	1.97	7	68.7	75.7	144.4	24.6	38	56.5	1.0	-0.18	10.9	33.4
47.41	5.0E-04	0.01	43.8	1.62	7	65.1	62.4	127.5	23.3	38	55.0	1.0	-0.15	9.4	30.6
47.74	5.0E-04	0.01	38.8	1.92	7	58.0	80.5	138.6	26.8	38	51.7	1.0	-0.16	10.8	29.7
48.06	5.0E-04	0.01	38.9	2.04	7	58.4	86.5	144.8	27.4	38	51.8	1.0	-0.16	11.3	30.4
48.39	5.0E-04	0.01	35.2	1.84	7	53.1	81.1	134.1	27.6	38	49.1	1.0	-0.14	10.5	27.8
48.72	5.0E-04	0.02	29.5	1.61	7	44.9	77.9	122.9	28.8	36	44.3	1.0	-0.11	9.6	24.3
49.05	5.0E-04	0.01	21.3	1.43	7	32.9	94.6	127.6	32.8	34	35.4	1.0	-0.07	9.3	20.0
49.38	5.0E-05	0.08	12.4	1.46	6	20.1	80.5	100.6	43.1	30	30.0	4.5	-0.01	7.9	15.7
49.70	5.0E-04	0.12	9.3	0.55	6	15.5	62.2	77.7	39.4	30	30.0	1.0	0.09	5.1	10.1

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Job No: 04-0401-1123-5274
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-10
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/23/03
CPT Time: 10:53
CPT File: 717CP010.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 0.82 (ft): 2.7
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.16	12.5	0.03	0.24	0.5	6	114.6	0.01	0.01	0.00	2.00	4.8	9.6	1.00	0.00
0.49	22.3	0.09	0.41	0.3	7	117.8	0.03	0.03	0.00	2.00	7.1	14.2	UnDef	0.09
0.82	22.0	0.11	0.48	-0.3	7	117.8	0.05	0.05	0.00	2.00	7.0	14.0	UnDef	0.09
1.15	20.9	0.12	0.55	0.0	7	117.8	0.07	0.07	0.00	2.00	6.7	13.3	UnDef	0.09
48	30.3	0.15	0.48	0.3	7	117.8	0.09	0.09	0.00	2.00	9.7	19.3	UnDef	0.10
80	70.1	0.31	0.44	1.6	8	120.9	0.11	0.11	0.00	2.00	16.8	33.6	UnDef	0.31
2.13	119.3	0.56	0.47	-0.2	9	124.1	0.13	0.13	0.00	2.00	22.8	45.7	UnDef	0.00
2.46	172.9	0.88	0.51	-4.9	9	124.1	0.15	0.15	0.00	2.00	33.1	66.2	UnDef	0.00
2.79	239.4	1.64	0.69	-6.5	9	124.1	0.17	0.16	0.00	2.00	45.9	91.7	UnDef	0.00
3.12	260.4	2.37	0.91	-5.7	9	124.1	0.19	0.17	0.01	2.00	49.9	99.8	UnDef	0.00
3.44	277.7	2.56	0.92	-1.5	9	124.1	0.21	0.18	0.02	2.00	53.2	106.4	UnDef	0.00
3.77	266.9	2.61	0.98	0.7	9	124.1	0.23	0.19	0.03	2.00	51.1	102.3	UnDef	0.00
4.10	222.5	1.99	0.90	3.6	9	124.1	0.25	0.20	0.04	2.00	42.6	85.2	UnDef	0.00
4.43	172.8	1.28	0.74	-0.3	9	124.1	0.27	0.21	0.05	2.00	33.1	66.2	UnDef	0.00
4.76	175.2	1.01	0.58	6.8	9	124.1	0.29	0.22	0.06	2.00	33.6	67.1	UnDef	0.00
5.09	160.2	0.99	0.62	5.1	9	124.1	0.31	0.23	0.07	2.00	30.7	61.4	UnDef	0.00
5.41	154.3	1.07	0.70	2.9	9	124.1	0.33	0.25	0.08	2.00	29.6	59.1	UnDef	0.00
5.74	156.0	1.44	0.93	0.7	9	124.1	0.35	0.26	0.09	1.98	29.9	59.1	UnDef	0.00
6.07	163.1	1.38	0.85	1.2	9	124.1	0.37	0.27	0.11	1.94	31.2	60.7	UnDef	0.00
6.40	157.5	1.00	0.64	10.8	9	124.1	0.39	0.28	0.12	1.91	30.2	57.5	UnDef	0.00
6.73	149.5	0.81	0.54	13.9	9	124.1	0.41	0.29	0.13	1.87	28.6	53.6	UnDef	0.00
7.05	144.6	0.69	0.47	15.5	9	124.1	0.43	0.30	0.14	1.84	27.7	50.9	UnDef	0.00
7.38	157.2	0.91	0.58	14.0	9	124.1	0.45	0.31	0.15	1.81	30.1	54.4	UnDef	0.00
7.79	158.1	1.09	0.69	15.8	9	124.1	0.48	0.32	0.16	1.77	30.3	53.7	UnDef	0.00
8.20	150.7	0.99	0.66	15.4	9	124.1	0.50	0.33	0.17	1.74	28.9	50.2	UnDef	0.00
8.53	152.1	0.95	0.63	11.7	9	124.1	0.52	0.34	0.18	1.71	29.1	49.9	UnDef	0.00
8.86	137.1	0.88	0.64	-2.2	9	124.1	0.54	0.35	0.19	1.69	26.3	44.3	UnDef	0.00
9.19	111.7	0.71	0.63	-1.1	9	124.1	0.56	0.36	0.20	1.66	21.4	35.6	UnDef	0.00
9.51	85.0	0.45	0.53	-7.6	8	120.9	0.58	0.37	0.21	1.64	20.3	33.4	UnDef	0.32
9.84	63.4	0.18	0.28	-6.9	8	120.9	0.60	0.38	0.22	1.62	15.2	24.6	UnDef	0.17
10.17	55.3	0.11	0.19	6.0	8	120.9	0.62	0.39	0.23	1.60	13.2	21.2	UnDef	0.14
10.50	55.1	0.18	0.33	11.7	8	120.9	0.64	0.40	0.24	1.58	13.2	20.9	UnDef	0.14
10.83	64.0	0.33	0.51	11.2	8	120.9	0.66	0.41	0.25	1.56	15.3	23.9	UnDef	0.17
11.15	88.0	0.44	0.50	8.5	8	120.9	0.68	0.42	0.26	1.54	21.1	32.5	UnDef	0.30
11.48	80.6	0.58	0.71	0.5	8	120.9	0.70	0.43	0.27	1.53	19.3	29.5	UnDef	0.24
81	135.5	1.44	1.06	-4.3	8	120.9	0.72	0.44	0.28	1.51	32.4	49.0	UnDef	0.00
14	160.9	2.28	1.42	1.7	8	120.9	0.74	0.45	0.29	1.49	38.5	57.6	UnDef	0.00
12.47	160.3	3.14	1.96	-2.3	7	117.8	0.76	0.46	0.30	1.48	51.2	75.7	UnDef	0.00
12.80	136.1	3.44	2.53	-7.0	7	117.8	0.78	0.47	0.31	1.46	43.4	63.6	UnDef	0.00

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5274
CPT File: 717CP010.COR

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
33.63	7.3	0.08	1.02	88.7	5	114.6	1.99	1.03	0.96	0.99	3.5	3.5	0.43	0.08
33.96	7.7	0.09	1.11	89.9	5	114.6	2.01	1.03	0.98	0.98	3.7	3.6	0.45	0.08
34.28	8.0	0.07	0.88	96.6	5	114.6	2.03	1.04	0.99	0.98	3.8	3.7	0.47	0.09
34.61	15.9	0.09	0.57	34.0	6	114.6	2.05	1.05	1.00	0.98	6.1	5.9	1.11	0.11
34.94	10.8	0.09	0.79	26.5	6	114.6	2.07	1.06	1.01	0.97	4.1	4.0	0.70	0.09
35.27	15.0	0.17	1.10	32.3	6	114.6	2.08	1.07	1.02	0.97	5.7	5.6	1.03	0.11
35.60	25.6	0.17	0.65	15.9	7	117.8	2.10	1.08	1.03	0.96	8.2	7.9	UnDef	0.09
35.92	31.5	0.16	0.51	10.3	7	117.8	2.12	1.09	1.04	0.96	10.0	9.6	UnDef	0.09
36.25	26.8	0.37	1.36	22.7	6	114.6	2.14	1.09	1.05	0.96	10.3	9.8	1.98	0.15
36.58	38.6	0.63	1.62	38.0	7	117.8	2.16	1.10	1.06	0.95	12.3	11.7	UnDef	0.15
36.91	105.8	0.47	0.44	-3.6	9	124.1	2.18	1.11	1.07	0.95	20.3	19.2	UnDef	0.17
37.24	135.9	0.71	0.52	-4.6	9	124.1	2.20	1.12	1.08	0.94	26.0	24.6	UnDef	0.28
37.57	122.6	0.86	0.70	-5.0	9	124.1	2.22	1.13	1.09	0.94	23.5	22.1	UnDef	0.25
37.89	104.8	0.63	0.60	-15.8	8	120.9	2.24	1.14	1.10	0.94	25.1	23.5	UnDef	0.19
38.22	85.5	0.89	1.04	-16.4	8	120.9	2.26	1.15	1.11	0.93	20.5	19.1	UnDef	0.18
38.55	95.4	1.74	1.82	-13.0	7	117.8	2.28	1.16	1.12	0.93	30.4	28.2	UnDef	0.29
38.88	88.8	2.70	3.04	-21.8	6	114.6	2.30	1.17	1.13	0.92	34.0	31.4	6.92	0.00
39.21	84.3	3.50	4.16	-24.7	5	114.6	2.32	1.18	1.14	0.92	40.4	37.2	6.56	0.00
39.53	121.5	4.28	3.52	-25.4	6	114.6	2.34	1.19	1.15	0.92	46.5	42.7	9.53	0.00
39.86	299.5	3.36	1.12	-25.9	9	124.1	2.36	1.20	1.16	0.91	57.4	52.4	UnDef	0.00
40.19	309.6	4.66	1.51	-25.5	8	120.9	2.38	1.21	1.17	0.91	74.1	67.5	UnDef	0.00
40.52	184.1	6.81	3.70	-25.2	12	120.9	2.40	1.22	1.18	0.91	88.1	79.9	UnDef	0.00
40.85	126.3	6.42	5.08	-25.4	11	130.5	2.42	1.23	1.19	0.90	121.0	109.2	UnDef	0.00
41.17	98.5	5.53	5.62	-26.0	11	130.5	2.44	1.24	1.20	0.90	94.3	84.8	UnDef	0.00
41.50	149.3	6.10	4.09	-26.4	11	130.5	2.46	1.25	1.21	0.89	142.9	127.9	UnDef	0.00
41.83	184.5	6.77	3.67	-27.0	12	120.9	2.48	1.26	1.22	0.89	88.3	78.7	UnDef	0.00
42.16	159.2	5.47	3.44	-27.5	6	114.6	2.50	1.27	1.23	0.89	61.0	54.1	12.54	0.00
[illegible]49	104.4	3.06	2.93	-27.7	6	114.6	2.52	1.28	1.24	0.88	40.0	35.4	8.15	0.00
[illegible]81	65.6	1.88	2.86	-27.9	6	114.6	2.54	1.29	1.25	0.88	25.1	22.2	5.05	0.43
43.14	72.6	2.39	3.29	-28.2	6	114.6	2.56	1.29	1.26	0.88	27.8	24.5	5.61	0.00
43.47	107.6	3.15	2.93	-28.3	6	114.6	2.58	1.30	1.27	0.88	41.2	36.1	8.40	0.00
43.80	138.7	4.71	3.39	-28.6	6	114.6	2.59	1.31	1.28	0.87	53.1	46.4	10.89	0.00
44.13	177.2	5.43	3.07	-28.8	7	117.8	2.61	1.32	1.29	0.87	56.6	49.2	UnDef	0.00
44.45	226.5	7.03	3.10	-28.9	7	117.8	2.63	1.33	1.30	0.87	72.3	62.7	UnDef	0.00
44.78	277.6	9.59	3.45	-28.8	12	120.9	2.65	1.34	1.31	0.86	132.9	114.9	UnDef	0.00
45.11	305.0	10.56	3.46	-28.6	12	120.9	2.67	1.35	1.32	0.86	146.0	125.8	UnDef	0.00
45.44	305.8	12.50	4.09	-28.2	12	120.9	2.69	1.36	1.33	0.86	146.4	125.7	UnDef	0.00
45.77	336.3	11.65	3.47	-28.0	12	120.9	2.71	1.37	1.34	0.86	161.0	137.7	UnDef	0.00
46.10	386.4	10.95	2.83	-28.1	12	120.9	2.73	1.38	1.35	0.85	185.0	157.7	UnDef	0.00
46.42	419.2	9.73	2.32	-28.1	8	120.9	2.75	1.39	1.36	0.85	100.4	85.2	UnDef	0.00
46.75	419.0	11.04	2.64	-28.5	12	120.9	2.77	1.40	1.37	0.85	200.6	169.8	UnDef	0.00
47.08	535.2	5.94	1.11	-28.5	9	124.1	2.79	1.41	1.38	0.84	102.5	86.4	UnDef	0.00

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5274
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-10
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/23/03
CPT Time: 10:53
CPT File: 717CP010.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 0.82 (ft): 2.7
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-05	0.00	1000.0	0.24	10	24.0	0.0	24.0	0.0	50	74.0	10.0	-0.27	0.0	9.6
0.49	5.0E-04	0.00	781.5	0.41	10	42.6	0.0	42.6	0.0	50	74.6	1.0	-0.29	0.0	14.2
0.82	5.0E-04	0.00	459.6	0.48	10	42.1	0.0	42.1	0.0	48	66.8	1.0	-0.26	0.0	14.0
1.15	5.0E-04	0.00	309.9	0.55	9	39.9	0.0	39.9	1.2	46	60.4	1.0	-0.24	0.0	13.3
1.48	5.0E-04	0.00	349.4	0.48	10	58.0	0.0	58.0	0.3	48	67.5	1.0	-0.23	0.0	19.3
1.80	5.0E-03	0.00	660.9	0.44	10	134.4	0.0	134.4	0.0	50	88.7	1.0	-0.28	0.0	33.6
2.13	5.0E-02	0.00	944.9	0.47	10	228.4	0.0	228.4	0.0	50	95.0	1.0	-0.32	0.0	45.7
2.46	5.0E-02	0.00	1000.0	0.51	10	331.2	0.0	331.2	0.0	50	95.0	1.0	-0.33	0.0	66.2
2.79	5.0E-02	0.00	1000.0	0.69	10	458.6	0.0	458.6	0.0	50	95.0	1.0	-0.36	0.0	91.7
3.12	5.0E-02	0.00	1000.0	0.91	10	498.8	0.0	498.8	0.1	50	95.0	1.0	-0.39	0.0	99.8
3.44	5.0E-02	0.00	1000.0	0.92	10	531.9	0.0	531.9	0.2	50	95.0	1.0	-0.40	0.0	106.4
3.77	5.0E-02	0.00	1000.0	0.98	10	511.3	0.0	511.3	0.4	50	95.0	1.0	-0.40	0.0	102.3
4.10	5.0E-02	0.00	1000.0	0.90	10	426.2	0.0	426.2	0.0	50	95.0	1.0	-0.39	0.0	85.2
4.43	5.0E-02	0.00	803.7	0.74	10	331.0	0.0	331.0	0.0	50	95.0	1.0	-0.35	0.0	66.2
4.76	5.0E-02	0.00	778.1	0.58	10	335.6	0.0	335.6	0.0	50	95.0	1.0	-0.32	0.0	67.1
5.09	5.0E-02	0.00	680.5	0.62	10	306.8	0.0	306.8	0.0	50	95.0	1.0	-0.32	0.0	61.4
5.41	5.0E-02	0.00	628.3	0.70	10	295.5	0.0	295.5	0.0	50	95.0	1.0	-0.32	0.0	59.1
5.74	5.0E-02	0.00	609.8	0.93	9	298.7	0.0	298.7	1.2	50	95.0	1.0	-0.35	0.0	59.1
6.07	5.0E-02	0.00	613.5	0.85	9	309.9	0.0	309.9	0.8	50	95.0	1.0	-0.34	0.0	60.7
6.40	5.0E-02	0.00	570.5	0.64	10	293.7	0.0	293.7	0.0	50	95.0	1.0	-0.30	0.0	57.5
6.73	5.0E-02	0.00	522.3	0.54	10	273.9	0.0	273.9	0.0	48	95.0	1.0	-0.28	0.0	53.6
7.05	5.0E-02	0.00	487.6	0.48	10	260.2	0.0	260.2	0.0	48	94.7	1.0	-0.26	0.0	50.9
7.38	5.0E-02	0.00	512.4	0.58	10	278.1	0.0	278.1	0.0	48	95.0	1.0	-0.29	0.0	54.4
7.79	5.0E-02	0.00	495.0	0.69	10	274.2	0.0	274.2	0.6	48	95.0	1.0	-0.30	0.0	53.7
8.20	5.0E-02	0.00	453.7	0.66	10	256.4	0.0	256.4	0.6	48	94.3	1.0	-0.29	0.0	50.2
8.53	5.0E-02	0.00	444.2	0.63	10	254.8	0.0	254.8	0.5	48	94.1	1.0	-0.28	0.0	49.9
8.86	5.0E-02	0.00	388.8	0.64	9	226.4	0.0	226.4	1.0	48	90.7	1.0	-0.27	0.0	44.3
9.19	5.0E-02	0.00	307.3	0.64	9	181.7	0.0	181.7	1.8	46	84.4	1.0	-0.25	0.0	35.6
9.51	5.0E-03	-0.01	227.3	0.53	9	136.5	0.0	136.5	2.3	46	76.2	1.0	-0.21	0.0	33.4
9.84	5.0E-03	-0.01	164.8	0.29	9	100.5	0.0	100.5	1.8	44	67.4	1.0	-0.13	0.0	24.6
10.17	5.0E-03	0.00	140.0	0.19	9	86.6	0.0	86.6	1.7	44	63.1	1.0	-0.08	0.0	21.2
10.50	5.0E-03	0.00	136.1	0.33	9	85.2	0.0	85.2	3.2	44	62.7	1.0	-0.12	0.0	20.9
10.83	5.0E-03	0.00	154.6	0.51	9	97.8	0.0	97.8	4.1	44	66.6	1.0	-0.17	0.0	23.9
11.15	5.0E-03	0.00	208.2	0.51	9	133.0	0.0	133.0	2.5	46	75.4	1.0	-0.19	0.0	32.5
11.48	5.0E-03	0.00	186.3	0.72	9	120.5	0.0	120.5	4.6	44	72.6	1.0	-0.22	0.0	29.5
11.81	5.0E-03	0.00	307.3	1.07	9	200.2	0.0	200.2	4.2	46	87.2	1.0	-0.30	0.0	49.0
12.14	5.0E-03	0.00	357.4	1.42	9	235.2	1.5	236.7	5.2	48	91.8	1.0	-0.35	0.2	57.8
12.47	5.0E-04	0.00	348.8	1.97	9	232.0	17.3	249.3	7.6	48	91.4	1.0	-0.40	3.4	79.1
12.80	5.0E-04	0.00	290.0	2.54	12	195.0	UnDef	UnDef	0.0	46	86.4	1.0	-0.43	UnDef	UnDef

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5274
CPT File: 717CP010.COR

[redacted]ch (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-05	-0.01	184.7	3.28	12	125.7	UnDef	UnDef	0.0	44	73.8	10.0	-0.44	UnDef	UnDef
13.45	5.0E-05	-0.01	90.1	2.46	7	62.5	39.0	101.5	19.4	42	53.8	10.0	-0.29	7.7	32.2
13.78	5.0E-04	-0.01	83.9	1.53	7	58.8	22.8	81.6	15.5	42	52.1	1.0	-0.21	4.1	23.3
14.11	5.0E-05	0.01	48.7	2.11	7	34.9	39.1	74.0	24.8	38	37.1	10.0	-0.19	6.7	20.4
14.44	5.0E-06	0.11	29.1	2.09	6	21.6	55.7	77.2	32.0	UnDef	UnDef	10.0	UnDef	8.7	19.2
14.76	5.0E-05	0.07	39.3	1.57	7	28.9	31.3	60.1	24.5	38	31.7	10.0	-0.13	5.4	16.8
15.09	5.0E-04	0.00	60.0	1.14	7	43.9	19.2	63.1	16.4	40	43.7	1.0	-0.15	3.4	17.7
15.42	5.0E-04	0.00	63.1	0.90	9	46.5	15.0	61.4	14.1	40	45.3	1.0	-0.13	2.7	17.9
15.75	5.0E-05	0.01	53.8	1.37	7	40.1	24.4	64.6	19.2	40	41.1	10.0	-0.16	4.9	20.6
16.08	5.0E-05	0.03	40.7	1.78	7	30.9	36.4	67.3	25.3	38	33.6	10.0	-0.15	6.2	18.3
16.40	5.0E-05	0.04	38.6	1.85	7	29.6	39.4	69.0	26.4	38	32.4	10.0	-0.15	6.4	18.0
16.73	5.0E-05	0.03	31.4	2.04	7	24.5	52.5	77.0	30.5	36	30.0	10.0	-0.14	7.1	16.7
17.06	5.0E-05	0.03	37.4	1.46	7	29.2	31.1	60.3	24.3	38	32.0	10.0	-0.12	5.4	16.9
17.39	5.0E-05	0.03	40.7	1.44	7	31.9	29.9	61.8	23.1	38	34.5	10.0	-0.13	5.4	17.9
17.72	5.0E-05	0.03	33.9	1.44	7	27.0	32.8	59.8	25.5	36	30.0	10.0	-0.11	5.5	16.1
18.04	5.0E-05	0.10	27.6	1.47	7	22.4	39.2	61.5	28.8	36	30.0	10.0	-0.09	5.8	14.6
18.37	5.0E-05	0.02	42.9	1.41	7	34.2	29.1	63.4	22.2	38	36.6	10.0	-0.13	5.4	18.8
18.70	5.0E-05	0.02	45.6	1.54	7	36.6	31.3	67.9	22.3	38	38.5	10.0	-0.15	5.8	20.1
19.03	5.0E-05	0.04	38.7	1.44	7	31.5	31.6	63.0	23.8	38	34.1	10.0	-0.12	5.6	17.9
19.36	5.0E-05	0.07	32.0	1.93	7	26.5	50.8	77.2	29.6	36	30.0	10.0	-0.13	7.2	17.6
19.68	5.0E-05	0.10	27.9	2.19	6	23.4	71.7	95.2	33.2	36	30.0	10.0	-0.12	8.2	17.4
20.01	5.0E-05	0.13	23.8	1.96	6	20.3	75.7	96.0	34.5	34	30.0	10.0	-0.09	7.7	15.7
20.34	5.0E-04	0.07	45.1	1.15	7	37.5	24.4	61.8	19.8	38	39.1	1.0	-0.12	4.0	16.2
20.67	5.0E-03	0.00	102.8	0.47	9	84.1	0.0	84.1	5.0	42	62.3	1.0	-0.12	0.0	20.6
21.00	5.0E-03	0.00	75.1	0.62	9	62.3	9.9	72.2	10.2	40	53.7	1.0	-0.12	1.4	16.7
21.33	5.0E-04	0.01	57.1	1.46	7	48.0	28.9	76.9	19.1	40	46.3	1.0	-0.17	4.8	20.5
21.65	5.0E-04	0.01	53.9	1.57	7	45.7	32.1	77.9	20.5	40	44.9	1.0	-0.17	5.2	20.1
[redacted]98	5.0E-04	0.00	71.9	1.18	7	60.9	21.6	82.4	14.8	40	53.0	1.0	-0.17	3.9	23.7
[redacted]31	5.0E-04	0.00	69.7	1.33	7	59.5	25.0	84.5	16.1	40	52.4	1.0	-0.18	4.4	23.8
22.64	5.0E-04	0.00	72.9	1.16	9	62.5	21.4	83.9	14.5	40	53.8	1.0	-0.17	3.9	24.3
22.97	5.0E-04	0.00	65.7	1.27	7	56.8	24.7	81.5	16.3	40	51.1	1.0	-0.17	4.3	22.9
23.29	5.0E-04	0.00	53.0	1.06	7	46.4	22.4	68.9	17.2	40	45.3	1.0	-0.13	3.9	19.0
23.62	5.0E-04	0.00	47.0	0.82	7	41.6	18.6	60.2	16.6	38	42.2	1.0	-0.10	3.2	16.8
23.95	5.0E-04	0.00	37.8	0.87	7	34.0	21.8	55.7	19.6	38	36.3	1.0	-0.08	3.6	14.7
24.28	5.0E-04	0.00	33.3	0.91	7	30.3	24.4	54.7	21.7	36	33.0	1.0	-0.08	3.8	13.7
24.61	5.0E-04	0.00	37.6	1.09	7	34.2	27.1	61.3	21.6	38	36.5	1.0	-0.10	4.3	15.4
24.93	5.0E-04	0.00	37.7	1.01	7	34.5	25.3	59.8	20.9	38	36.7	1.0	-0.10	4.1	15.3
25.26	5.0E-04	0.00	36.1	0.81	7	33.3	21.5	54.9	19.7	38	35.8	1.0	-0.07	3.5	14.4
25.59	5.0E-04	0.00	34.4	0.75	7	32.0	20.8	52.8	19.8	38	34.6	1.0	-0.06	3.4	13.9
25.92	5.0E-04	0.00	33.6	0.80	7	31.5	22.3	53.7	20.5	36	34.1	1.0	-0.07	3.6	13.9
26.25	5.0E-05	0.00	30.9	1.13	7	29.2	32.1	61.3	24.6	36	32.0	10.0	-0.09	5.6	17.0
26.57	5.0E-05	0.00	28.5	1.20	7	27.2	35.8	63.0	26.3	36	30.0	10.0	-0.08	5.9	16.5
26.90	5.0E-05	0.00	28.4	1.06	7	27.3	32.1	59.4	25.2	36	30.0	10.0	-0.07	5.5	16.1
27.23	5.0E-04	0.00	39.2	0.72	7	37.2	19.3	56.5	17.8	38	38.9	1.0	-0.07	3.3	15.4
27.56	5.0E-04	0.00	37.0	0.52	7	35.4	15.4	50.8	16.4	38	37.5	1.0	-0.04	2.7	14.3
27.89	5.0E-04	0.00	25.3	0.79	7	24.9	26.9	51.8	24.5	34	30.0	1.0	-0.04	3.9	12.0
28.21	5.0E-05	0.01	23.9	1.09	7	23.8	38.1	61.9	28.1	34	30.0	10.0	-0.06	5.8	15.1
28.54	5.0E-05	0.00	25.1	1.32	7	24.9	45.7	70.7	29.2	34	30.0	10.0	-0.08	6.6	16.4
28.87	5.0E-05	0.00	19.9	1.48	6	20.2	73.1	93.4	34.3	34	30.0	9.4	-0.06	7.6	15.5
29.20	5.0E-04	-0.01	23.3	0.73	7	23.5	27.1	50.6	25.1	34	30.0	1.0	-0.03	3.9	11.5
29.53	5.0E-04	0.00	22.4	0.51	7	22.8	21.2	44.0	23.0	34	30.0	1.0	0.00	3.2	10.7
29.86	5.0E-05	0.00	17.9	0.69	7	18.7	32.6	51.3	28.8	32	30.0	8.0	0.00	4.8	12.2
30.18	5.0E-05	0.00	16.0	0.60	7	17.0	32.7	49.6	29.6	32	30.0	6.7	0.02	4.6	11.3
30.59	5.0E-05	0.02	9.3	1.06	6	10.7	42.7	53.4	45.7	30	30.0	3.0	0.04	4.2	8.4
31.00	5.0E-06	0.15	7.1	1.25	6	8.7	34.6	43.3	53.9	UnDef	UnDef	2.1	UnDef	4.2	8.5
31.33	5.0E-06	0.21	6.6	1.42	4	8.2	32.8	41.0	57.4	UnDef	UnDef	1.9	UnDef	4.0	8.0
31.66	5.0E-06	0.09	7.5	1.51	6	9.1	36.4	45.5	55.1	UnDef	UnDef	2.2	UnDef	4.5	8.9
31.99	5.0E-06	0.10	6.8	1.42	4	8.5	34.0	42.5	56.6	UnDef	UnDef	1.9	UnDef	4.2	8.3
[redacted]32	5.0E-06	0.22	6.4	1.41	4	8.2	32.7	40.8	58.0	UnDef	UnDef	1.8	UnDef	4.0	8.0
[redacted]64	5.0E-06	0.27	5.3	1.62	4	7.0	28.1	35.2	65.4	UnDef	UnDef	1.4	UnDef	3.4	6.9
32.97	5.0E-06	0.32	5.2	1.42	4	7.1	28.2	35.3	63.6	UnDef	UnDef	1.4	UnDef	3.5	6.9
33.30	5.0E-06	0.34	5.3	1.31	4	7.1	28.4	35.5	62.4	UnDef	UnDef	1.4	UnDef	3.5	7.0

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5274
CPT File: 717CP010.COR

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-06	0.34	5.2	1.40	4	7.1	28.4	35.5	63.5	UnDef	UnDef	1.4	UnDef	3.5	7.0
33.96	5.0E-06	0.32	5.5	1.50	4	7.4	29.5	36.9	63.2	UnDef	UnDef	1.5	UnDef	3.6	7.2
34.28	5.0E-06	0.34	5.7	1.18	4	7.6	30.5	38.1	59.0	UnDef	UnDef	1.6	UnDef	3.7	7.5
34.61	5.0E-05	0.00	13.2	0.65	7	15.2	50.3	65.5	33.8	32	30.0	4.9	0.03	5.5	11.4
34.94	5.0E-05	-0.02	8.2	0.98	6	10.3	41.1	51.3	47.5	30	30.0	2.5	0.05	4.0	8.0
35.27	5.0E-05	0.00	12.1	1.28	6	14.2	56.9	71.1	42.1	30	30.0	4.3	0.00	5.6	11.1
35.60	5.0E-04	-0.02	21.8	0.70	7	24.1	30.0	54.1	25.7	34	30.0	1.0	-0.02	4.2	12.1
35.92	5.0E-04	-0.02	27.0	0.55	7	29.6	21.5	51.1	20.8	36	32.3	1.0	-0.02	3.4	13.1
36.25	5.0E-05	-0.01	22.6	1.48	7	25.1	66.2	91.3	32.2	34	30.0	10.0	-0.08	8.2	18.0
36.58	5.0E-04	0.00	33.1	1.72	7	36.0	56.0	92.0	27.8	36	38.0	1.0	-0.13	7.2	19.0
36.91	5.0E-02	-0.01	93.1	0.45	9	98.1	0.0	98.1	5.0	42	66.7	1.0	-0.11	0.0	19.2
37.24	5.0E-02	-0.01	119.0	0.53	9	125.5	2.8	128.2	5.8	42	73.8	1.0	-0.15	0.3	24.9
37.57	5.0E-02	-0.01	106.2	0.71	9	112.7	10.1	122.8	8.1	42	70.7	1.0	-0.16	1.2	23.3
37.89	5.0E-03	-0.02	89.7	0.61	9	95.9	10.1	106.0	8.6	42	66.1	1.0	-0.14	1.5	25.0
38.22	5.0E-03	-0.02	72.2	1.07	9	77.9	24.7	102.6	14.0	40	60.1	1.0	-0.16	3.4	22.4
38.55	5.0E-04	-0.02	80.1	1.87	7	86.6	44.8	131.4	17.8	42	63.1	1.0	-0.23	7.7	35.9
38.88	5.0E-05	-0.02	73.9	3.12	7	80.3	84.9	165.2	24.3	40	61.0	10.0	-0.31	14.9	46.3
39.21	5.0E-06	-0.02	69.5	4.27	6	76.0	137.7	213.7	29.1	UnDef	UnDef	10.0	UnDef	25.1	62.3
39.53	5.0E-05	-0.02	100.3	3.59	7	109.1	97.3	206.4	22.7	42	69.8	10.0	-0.39	17.9	60.6
39.86	5.0E-02	-0.01	248.2	1.13	9	267.9	3.7	271.6	5.5	46	95.0	1.0	-0.29	0.4	52.9
40.19	5.0E-03	-0.01	254.5	1.52	9	275.7	17.9	293.6	7.3	46	95.0	1.0	-0.32	2.7	70.1
40.52	1.0E-15	-0.01	149.3	3.75	12	163.3	UnDef	UnDef	0.0	44	81.3	1.0	-0.46	UnDef	UnDef
40.85	1.0E-15	-0.02	101.0	5.18	11	111.6	UnDef	UnDef	0.0	42	70.4	1.0	-0.58	UnDef	UnDef
41.17	1.0E-15	-0.02	77.6	5.76	11	86.6	UnDef	UnDef	0.0	42	63.2	1.0	-0.64	UnDef	UnDef
41.50	1.0E-15	-0.01	117.5	4.16	11	130.7	UnDef	UnDef	0.0	42	74.9	1.0	-0.47	UnDef	UnDef
41.83	1.0E-15	-0.01	144.4	3.72	12	160.8	UnDef	UnDef	0.0	44	80.9	1.0	-0.45	UnDef	UnDef
42.16	5.0E-05	-0.01	123.5	3.49	12	138.3	UnDef	UnDef	0.0	42	76.6	10.0	-0.41	UnDef	UnDef
[redacted].49	5.0E-05	-0.02	79.8	3.01	7	90.4	83.1	173.5	22.9	42	64.4	10.0	-0.31	15.1	50.5
[redacted]81	5.0E-05	-0.03	49.1	2.98	6	56.6	98.6	155.2	28.8	38	51.0	10.0	-0.25	14.6	36.8
43.14	5.0E-05	-0.03	54.1	3.41	6	62.5	114.8	177.2	29.3	40	53.8	10.0	-0.29	16.6	41.1
43.47	5.0E-05	-0.02	80.6	3.00	7	92.2	83.5	175.7	22.8	42	65.0	10.0	-0.31	15.3	51.4
43.80	5.0E-05	-0.02	103.7	3.46	7	118.5	97.0	215.5	21.9	42	72.1	10.0	-0.38	18.2	64.6
44.13	5.0E-04	-0.01	132.2	3.11	7	150.9	83.5	234.4	18.3	44	79.1	1.0	-0.38	14.1	63.3
44.45	5.0E-04	-0.01	168.4	3.14	12	192.2	UnDef	UnDef	0.0	44	86.0	1.0	-0.42	UnDef	UnDef
44.78	1.0E-15	-0.01	205.3	3.49	12	234.7	UnDef	UnDef	0.0	46	91.7	1.0	-0.48	UnDef	UnDef
45.11	1.0E-15	-0.01	224.2	3.49	12	257.0	UnDef	UnDef	0.0	46	94.3	1.0	-0.49	UnDef	UnDef
45.44	1.0E-15	-0.01	223.2	4.12	12	256.8	UnDef	UnDef	0.0	46	94.3	1.0	-0.56	UnDef	UnDef
45.77	1.0E-15	-0.01	243.9	3.49	12	281.4	UnDef	UnDef	0.0	46	95.0	1.0	-0.50	UnDef	UnDef
46.10	1.0E-15	-0.01	278.6	2.85	12	322.2	UnDef	UnDef	0.0	46	95.0	1.0	-0.45	UnDef	UnDef
46.42	5.0E-03	-0.01	300.3	2.34	12	348.3	UnDef	UnDef	0.0	46	95.0	1.0	-0.41	UnDef	UnDef
46.75	1.0E-15	-0.01	298.0	2.65	12	347.0	UnDef	UnDef	0.0	46	95.0	1.0	-0.44	UnDef	UnDef
47.08	5.0E-02	0.00	378.5	1.12	9	441.6	0.0	441.6	3.6	48	95.0	1.0	-0.33	0.0	86.4

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5324
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-8
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/23/03
CPT Time: 12:41
CPT File: 717CP008.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 3.05 (ft): 10.0
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.16	21.7	0.13	0.58	0.0	7	117.8	0.01	0.01	0.00	2.00	6.9	13.9	UnDef	0.09
0.49	35.2	0.37	1.04	-1.5	7	117.8	0.03	0.03	0.00	2.00	11.2	22.5	UnDef	0.11
0.82	44.6	0.55	1.22	-4.2	7	117.8	0.05	0.05	0.00	2.00	14.2	28.5	UnDef	0.14
1.15	50.5	0.73	1.45	-7.8	7	117.8	0.07	0.07	0.00	2.00	16.1	32.3	UnDef	0.16
1.48	51.8	0.79	1.53	-11.5	7	117.8	0.09	0.09	0.00	2.00	16.5	33.1	UnDef	0.17
1.80	54.6	0.88	1.61	-13.1	7	117.8	0.11	0.11	0.00	2.00	17.4	34.9	UnDef	0.19
2.13	51.7	0.79	1.53	-13.0	7	117.8	0.13	0.13	0.00	2.00	16.5	33.0	UnDef	0.17
2.46	53.5	0.61	1.14	-12.8	7	117.8	0.14	0.14	0.00	2.00	17.1	34.1	UnDef	0.18
2.79	82.1	0.74	0.90	-9.3	8	120.9	0.16	0.16	0.00	2.00	19.7	39.3	UnDef	0.44
3.12	138.3	1.21	0.88	-8.3	9	124.1	0.18	0.18	0.00	2.00	26.5	53.0	UnDef	0.00
3.44	164.0	1.53	0.93	-4.3	9	124.1	0.20	0.20	0.00	2.00	31.4	62.8	UnDef	0.00
3.77	181.3	1.68	0.93	-8.1	9	124.1	0.23	0.23	0.00	2.00	34.7	69.4	UnDef	0.00
4.10	193.6	1.85	0.96	-7.0	9	124.1	0.25	0.25	0.00	2.00	37.1	74.1	UnDef	0.00
4.43	183.3	2.04	1.11	-6.5	9	124.1	0.27	0.27	0.00	1.94	35.1	68.1	UnDef	0.00
4.76	174.6	1.85	1.06	-7.3	9	124.1	0.29	0.29	0.00	1.87	33.4	62.5	UnDef	0.00
5.09	174.5	1.61	0.92	-5.3	9	124.1	0.31	0.31	0.00	1.81	33.4	60.4	UnDef	0.00
5.41	190.9	1.80	0.95	-5.7	9	124.1	0.33	0.33	0.00	1.75	36.6	63.9	UnDef	0.00
5.74	213.4	1.90	0.89	-6.1	9	124.1	0.35	0.35	0.00	1.70	40.9	69.3	UnDef	0.00
6.07	210.6	2.02	0.96	-3.0	9	124.1	0.37	0.37	0.00	1.65	40.3	66.5	UnDef	0.00
6.40	212.4	2.18	1.02	-1.8	9	124.1	0.39	0.39	0.00	1.61	40.7	65.3	UnDef	0.00
6.73	207.3	2.27	1.10	-2.2	9	124.1	0.41	0.41	0.00	1.56	39.7	62.1	UnDef	0.00
7.05	209.9	2.78	1.33	2.0	8	120.9	0.43	0.43	0.00	1.53	50.3	76.8	UnDef	0.00
7.38	204.8	2.41	1.18	2.2	8	120.9	0.45	0.45	0.00	1.49	49.0	73.2	UnDef	0.00
7.79	174.6	2.03	1.16	0.6	8	120.9	0.47	0.47	0.00	1.45	41.8	60.8	UnDef	0.00
8.20	114.7	1.61	1.40	-1.9	8	120.9	0.50	0.50	0.00	1.42	27.5	38.9	UnDef	0.00
8.53	71.1	1.56	2.19	-1.7	7	117.8	0.52	0.52	0.00	1.39	22.7	31.5	UnDef	0.28
8.86	49.5	1.12	2.27	0.0	6	114.6	0.54	0.54	0.00	1.37	19.0	25.9	3.92	0.18
9.19	36.1	0.60	1.67	-0.2	6	114.6	0.56	0.56	0.00	1.34	13.8	18.6	2.84	0.12
9.51	28.2	0.54	1.90	0.5	6	114.6	0.57	0.57	0.00	1.32	10.8	14.3	2.21	0.12
9.84	20.8	0.55	2.65	1.7	5	114.6	0.59	0.59	0.00	1.30	10.0	13.0	1.62	0.18
10.17	19.7	0.55	2.78	-0.9	5	114.6	0.61	0.61	0.00	1.28	9.4	12.1	1.52	0.25
10.50	17.7	0.49	2.75	2.1	5	114.6	0.63	0.62	0.01	1.27	8.5	10.8	1.37	0.21
10.83	17.3	0.49	2.84	0.3	5	114.6	0.65	0.62	0.03	1.27	8.3	10.5	1.33	0.19
11.15	16.3	0.49	3.01	2.3	5	114.6	0.67	0.63	0.04	1.26	7.8	9.8	1.25	0.17
11.48	19.3	0.52	2.67	0.7	5	114.6	0.69	0.64	0.05	1.25	9.3	11.6	1.49	0.23
11.81	20.2	0.54	2.68	0.6	5	114.6	0.71	0.65	0.06	1.24	9.7	12.0	1.56	0.25
12.14	19.8	0.59	2.99	3.9	5	114.6	0.72	0.66	0.07	1.23	9.5	11.7	1.52	0.24
12.47	21.3	0.54	2.54	5.9	5	114.6	0.74	0.67	0.08	1.22	10.2	12.5	1.65	0.21
12.80	28.6	0.76	2.66	-1.9	6	114.6	0.76	0.68	0.09	1.22	11.0	13.3	2.23	0.18

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5324
CPT File: 717CP008.COR

[illegible]ch (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
13.12	26.9	0.73	2.70	3.0	5	114.6	0.78	0.68	0.10	1.21	12.9	15.6	2.09	0.20
13.45	35.9	0.62	1.72	5.1	6	114.6	0.80	0.69	0.11	1.20	13.7	16.5	2.81	0.12
13.78	66.6	0.75	1.12	-0.5	7	117.8	0.82	0.70	0.12	1.19	21.3	25.4	UnDef	0.16
14.11	56.3	0.74	1.31	-10.4	7	117.8	0.84	0.71	0.13	1.19	18.0	21.3	UnDef	0.15
14.44	47.1	0.66	1.39	-3.3	7	117.8	0.86	0.72	0.14	1.18	15.0	17.7	UnDef	0.13
14.76	44.5	0.55	1.23	0.7	7	117.8	0.88	0.73	0.15	1.17	14.2	16.6	UnDef	0.12
15.09	42.6	0.39	0.91	-3.2	7	117.8	0.90	0.74	0.16	1.16	13.6	15.8	UnDef	0.11
15.42	24.0	0.33	1.36	-3.8	6	114.6	0.92	0.75	0.17	1.16	9.2	10.6	1.85	0.11
15.75	17.7	0.22	1.24	-5.1	6	114.6	0.93	0.76	0.18	1.15	6.8	7.8	1.34	0.11
16.08	12.8	0.15	1.17	5.6	6	114.6	0.95	0.76	0.19	1.14	4.9	5.6	0.95	0.11
16.40	9.8	0.14	1.38	10.3	5	114.6	0.97	0.77	0.20	1.14	4.7	5.4	0.71	0.10
16.73	5.6	0.10	1.78	18.0	4	114.6	0.99	0.78	0.21	1.13	3.6	4.1	0.37	0.08
17.06	7.8	0.07	0.83	17.3	5	114.6	1.01	0.79	0.22	1.13	3.7	4.2	0.54	0.09
17.39	11.3	0.04	0.36	6.6	6	114.6	1.03	0.80	0.23	1.12	4.3	4.8	0.82	0.00
17.72	16.4	0.03	0.18	8.7	6	114.6	1.05	0.81	0.24	1.11	6.3	7.0	1.23	0.00
18.04	15.7	0.04	0.25	8.9	6	114.6	1.07	0.82	0.25	1.11	6.0	6.7	1.17	0.00
18.37	14.7	0.05	0.34	9.1	6	114.6	1.08	0.82	0.26	1.10	5.6	6.2	1.09	0.00
18.70	14.3	0.05	0.35	9.5	6	114.6	1.10	0.83	0.27	1.10	5.5	6.0	1.06	0.00
19.03	13.4	0.05	0.34	9.8	6	114.6	1.12	0.84	0.28	1.09	5.1	5.6	0.98	0.00
19.36	14.9	0.04	0.24	10.1	6	114.6	1.14	0.85	0.29	1.09	5.7	6.2	1.10	0.00
19.68	16.3	0.04	0.21	10.2	6	114.6	1.16	0.86	0.30	1.08	6.3	6.8	1.21	0.00
20.01	20.8	0.05	0.24	10.7	7	117.8	1.18	0.87	0.31	1.07	6.6	7.1	UnDef	0.00
20.34	22.7	0.04	0.18	10.7	7	117.8	1.20	0.88	0.32	1.07	7.2	7.7	UnDef	0.00
20.67	24.8	0.04	0.16	11.2	7	117.8	1.22	0.89	0.33	1.06	7.9	8.4	UnDef	0.00
21.00	26.8	0.06	0.21	11.6	7	117.8	1.24	0.89	0.34	1.06	8.5	9.0	UnDef	0.00
21.33	20.9	0.04	0.19	12.0	7	117.8	1.26	0.90	0.35	1.05	6.7	7.0	UnDef	0.00
21.65	19.6	0.10	0.49	12.2	6	114.6	1.27	0.91	0.36	1.05	7.5	7.9	1.47	0.09
[illegible]98	27.5	0.11	0.38	12.6	7	117.8	1.29	0.92	0.37	1.04	8.8	9.1	UnDef	0.00
[illegible]31	27.5	0.11	0.38	13.4	7	117.8	1.31	0.93	0.38	1.04	8.8	9.1	UnDef	0.00
22.64	26.5	0.10	0.38	13.3	7	117.8	1.33	0.94	0.39	1.03	8.5	8.7	UnDef	0.00
22.97	25.5	0.11	0.43	11.6	7	117.8	1.35	0.95	0.40	1.03	8.2	8.4	UnDef	0.00
23.29	37.9	0.09	0.24	13.1	8	120.9	1.37	0.96	0.41	1.02	9.1	9.3	UnDef	0.09
23.62	38.8	0.12	0.30	12.9	8	120.9	1.39	0.97	0.42	1.02	9.3	9.4	UnDef	0.09
23.95	30.4	0.24	0.79	12.8	7	117.8	1.41	0.98	0.43	1.01	9.7	9.8	UnDef	0.10
24.28	52.4	0.73	1.40	15.5	7	117.8	1.43	0.99	0.44	1.01	16.7	16.8	UnDef	0.14
24.61	210.9	1.39	0.66	10.0	9	124.1	1.45	1.00	0.46	1.00	40.4	40.5	UnDef	0.00
24.93	331.2	3.00	0.90	5.0	9	124.1	1.47	1.01	0.47	1.00	63.4	63.3	UnDef	0.00
25.26	288.7	4.22	1.46	6.8	8	120.9	1.49	1.02	0.48	0.99	69.1	68.6	UnDef	0.00
25.59	241.6	3.15	1.30	19.2	8	120.9	1.51	1.02	0.49	0.99	57.8	57.2	UnDef	0.00
25.92	228.6	2.20	0.96	10.2	9	124.1	1.53	1.03	0.50	0.98	43.8	43.1	UnDef	0.00
26.25	185.3	1.76	0.95	17.3	9	124.1	1.55	1.04	0.51	0.98	35.5	34.7	UnDef	0.00
26.57	150.1	1.25	0.83	15.6	9	124.1	1.57	1.05	0.52	0.97	28.8	28.0	UnDef	0.40
26.90	49.6	0.32	0.65	15.9	8	120.9	1.59	1.06	0.53	0.97	11.9	11.5	UnDef	0.11
27.23	19.8	0.26	1.31	31.2	6	114.6	1.61	1.07	0.54	0.97	7.6	7.3	1.46	0.16
27.56	59.8	0.44	0.73	28.9	8	120.9	1.63	1.08	0.55	0.96	14.3	13.8	UnDef	0.12
27.89	63.0	0.26	0.41	27.5	8	120.9	1.65	1.09	0.56	0.96	15.1	14.4	UnDef	0.10
28.21	62.8	0.27	0.42	25.6	8	120.9	1.67	1.10	0.57	0.95	15.0	14.3	UnDef	0.10
28.54	84.4	0.36	0.42	21.4	8	120.9	1.69	1.11	0.58	0.95	20.2	19.2	UnDef	0.12
28.87	136.4	0.21	0.15	16.7	9	124.1	1.71	1.12	0.59	0.94	26.1	24.7	UnDef	0.27
29.20	118.0	0.13	0.11	18.0	9	124.1	1.73	1.13	0.60	0.94	22.6	21.2	UnDef	0.20
29.53	87.7	0.11	0.12	18.3	9	124.1	1.75	1.14	0.61	0.94	16.8	15.7	UnDef	0.13
29.86	77.2	0.07	0.09	19.0	8	120.9	1.77	1.15	0.62	0.93	18.5	17.2	UnDef	0.11
30.18	89.5	0.13	0.14	19.8	9	124.1	1.79	1.16	0.63	0.93	17.1	15.9	UnDef	0.13
30.59	77.1	0.14	0.18	20.5	8	120.9	1.82	1.17	0.64	0.92	18.5	17.0	UnDef	0.11
31.00	69.0	0.10	0.15	20.8	8	120.9	1.84	1.19	0.65	0.92	16.5	15.2	UnDef	0.10
31.33	55.2	0.15	0.27	20.9	8	120.9	1.86	1.20	0.66	0.91	13.2	12.1	UnDef	0.09
31.66	40.9	0.31	0.76	23.6	7	117.8	1.88	1.20	0.68	0.91	13.0	11.9	UnDef	0.10
31.99	30.1	0.25	0.83	21.6	7	117.8	1.90	1.21	0.69	0.91	9.6	8.7	UnDef	0.10
[illegible]32	39.0	0.08	0.19	21.9	8	120.9	1.92	1.22	0.70	0.90	9.3	8.5	UnDef	0.08
[illegible].64	48.1	0.05	0.09	22.6	8	120.9	1.94	1.23	0.71	0.90	11.5	10.4	UnDef	0.09
32.97	41.3	0.06	0.13	22.9	8	120.9	1.96	1.24	0.72	0.90	9.9	8.9	UnDef	0.08
33.30	48.5	0.11	0.22	23.1	8	120.9	1.98	1.25	0.73	0.89	11.6	10.4	UnDef	0.09

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5324
CPT File: 717CP008.COR

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
33.63	68.1	0.34	0.50	23.7	8	120.9	2.00	1.26	0.74	0.89	16.3	14.5	UnDef	0.12
33.96	53.8	0.58	1.07	25.6	7	117.8	2.02	1.27	0.75	0.89	17.2	15.2	UnDef	0.13
34.28	37.6	0.46	1.21	25.6	7	117.8	2.04	1.28	0.76	0.88	12.0	10.6	UnDef	0.13
34.61	26.7	0.31	1.16	25.5	6	114.6	2.06	1.29	0.77	0.88	10.2	9.0	1.97	0.16
34.94	23.9	0.31	1.28	27.4	6	114.6	2.07	1.30	0.78	0.88	9.1	8.0	1.74	0.18
35.27	26.8	0.27	0.99	26.6	7	117.8	2.09	1.31	0.79	0.88	8.6	7.5	UnDef	0.13
35.60	31.3	0.31	0.98	27.1	7	117.8	2.11	1.32	0.80	0.87	10.0	8.7	UnDef	0.12
35.92	28.2	0.38	1.33	29.4	6	114.6	2.13	1.32	0.81	0.87	10.8	9.4	2.08	0.20
36.25	22.7	0.43	1.87	37.8	6	114.6	2.15	1.33	0.82	0.87	8.7	7.5	1.65	0.16
36.58	28.0	0.37	1.31	33.2	6	114.6	2.17	1.34	0.83	0.86	10.7	9.3	2.06	0.20
36.91	29.3	0.38	1.30	30.8	6	114.6	2.19	1.35	0.84	0.86	11.2	9.7	2.17	0.19
37.24	25.1	0.42	1.68	36.4	6	114.6	2.21	1.36	0.85	0.86	9.6	8.2	1.83	0.19
37.57	23.0	0.41	1.79	37.5	6	114.6	2.23	1.37	0.86	0.86	8.8	7.5	1.66	0.16
37.89	31.7	0.36	1.14	30.4	7	117.8	2.25	1.38	0.87	0.85	10.1	8.6	UnDef	0.14
38.22	28.5	0.34	1.20	30.3	6	114.6	2.26	1.38	0.88	0.85	10.9	9.3	2.10	0.18
38.55	24.3	0.33	1.34	34.5	6	114.6	2.28	1.39	0.89	0.85	9.3	7.9	1.76	0.18
38.88	23.1	0.36	1.56	40.1	6	114.6	2.30	1.40	0.90	0.84	8.9	7.5	1.67	0.16
39.21	32.1	0.39	1.20	31.9	7	117.8	2.32	1.41	0.91	0.84	10.3	8.6	UnDef	0.16
39.53	40.7	0.41	1.01	30.8	7	117.8	2.34	1.42	0.92	0.84	13.0	10.9	UnDef	0.12
39.86	41.3	0.45	1.08	31.2	7	117.8	2.36	1.43	0.93	0.84	13.2	11.0	UnDef	0.13
40.19	48.9	0.49	1.00	30.8	7	117.8	2.38	1.44	0.94	0.83	15.6	13.0	UnDef	0.12
40.52	47.9	0.48	0.99	31.5	7	117.8	2.40	1.45	0.95	0.83	15.3	12.7	UnDef	0.12
40.85	54.7	0.53	0.97	31.7	7	117.8	2.42	1.46	0.96	0.83	17.5	14.5	UnDef	0.13
41.17	53.7	0.55	1.02	31.9	7	117.8	2.44	1.46	0.97	0.83	17.2	14.2	UnDef	0.13
41.50	43.9	0.47	1.06	32.5	7	117.8	2.46	1.47	0.98	0.82	14.0	11.5	UnDef	0.13
41.83	35.3	0.44	1.25	33.4	7	117.8	2.48	1.48	0.99	0.82	11.3	9.3	UnDef	0.16
42.16	28.8	0.44	1.51	34.7	6	114.6	2.49	1.49	1.00	0.82	11.0	9.0	2.11	0.22
[illegible]49	27.8	0.41	1.48	35.0	6	114.6	2.51	1.50	1.01	0.82	10.7	8.7	2.02	0.21
[illegible]81	25.6	0.38	1.49	36.1	6	114.6	2.53	1.51	1.02	0.81	9.8	8.0	1.85	0.18
43.14	22.6	0.36	1.57	37.4	6	114.6	2.55	1.52	1.03	0.81	8.7	7.0	1.61	0.15
43.47	18.7	0.32	1.71	41.1	6	114.6	2.57	1.53	1.04	0.81	7.2	5.8	1.29	0.12
43.80	17.7	0.27	1.53	40.7	6	114.6	2.59	1.53	1.05	0.81	6.8	5.5	1.21	0.11
44.13	13.5	0.26	1.89	45.5	5	114.6	2.61	1.54	1.06	0.81	6.5	5.2	0.87	0.09
44.45	10.5	0.24	2.29	61.3	5	114.6	2.63	1.55	1.07	0.80	5.0	4.0	0.63	0.00
44.78	13.7	0.27	1.93	55.6	5	114.6	2.64	1.56	1.08	0.80	6.6	5.3	0.89	0.09
45.11	16.7	0.28	1.65	51.0	6	114.6	2.66	1.57	1.09	0.80	6.4	5.1	1.12	0.11
45.44	17.7	0.28	1.59	47.3	6	114.6	2.68	1.58	1.11	0.80	6.8	5.4	1.20	0.11
45.77	15.7	0.30	1.88	55.8	5	114.6	2.70	1.59	1.12	0.79	7.5	6.0	1.04	0.10
46.10	17.6	0.32	1.80	54.9	6	114.6	2.72	1.59	1.13	0.79	6.7	5.3	1.19	0.11
46.42	17.9	0.32	1.79	50.6	6	114.6	2.74	1.60	1.14	0.79	6.9	5.4	1.21	0.11
46.75	16.2	0.31	1.92	54.1	5	114.6	2.76	1.61	1.15	0.79	7.8	6.1	1.07	0.10
47.08	17.2	0.30	1.72	54.1	6	114.6	2.78	1.62	1.16	0.79	6.6	5.2	1.15	0.11
47.41	17.7	0.31	1.75	52.1	6	114.6	2.80	1.63	1.17	0.78	6.8	5.3	1.20	0.11
47.74	19.5	0.33	1.67	53.2	6	114.6	2.81	1.64	1.18	0.78	7.5	5.8	1.33	0.12
48.06	21.9	0.34	1.56	50.8	6	114.6	2.83	1.65	1.19	0.78	8.4	6.5	1.52	0.13
48.39	20.4	0.32	1.57	50.7	6	114.6	2.85	1.65	1.20	0.78	7.8	6.1	1.40	0.12
48.72	17.3	0.33	1.91	56.1	6	114.6	2.87	1.66	1.21	0.78	6.6	5.1	1.16	0.11
49.05	20.3	0.35	1.72	53.7	6	114.6	2.89	1.67	1.22	0.77	7.8	6.0	1.40	0.12
49.38	19.2	0.35	1.80	48.5	6	114.6	2.91	1.68	1.23	0.77	7.4	5.7	1.31	0.12
49.70	17.2	0.32	1.86	55.5	6	114.6	2.93	1.69	1.24	0.77	6.6	5.1	1.14	0.11
50.03	17.9	0.33	1.82	58.0	6	114.6	2.95	1.70	1.25	0.77	6.9	5.3	1.20	0.11
50.36	23.8	0.34	1.43	53.0	6	114.6	2.96	1.71	1.26	0.77	9.1	7.0	1.67	0.15
50.69	24.2	0.36	1.47	53.1	6	114.6	2.98	1.71	1.27	0.76	9.3	7.1	1.70	0.15
51.02	24.0	0.38	1.56	59.7	6	114.6	3.00	1.72	1.28	0.76	9.2	7.0	1.68	0.15
51.34	20.6	0.36	1.73	65.3	6	114.6	3.02	1.73	1.29	0.76	7.9	6.0	1.41	0.12
51.67	19.2	0.37	1.90	70.3	6	114.6	3.04	1.74	1.30	0.76	7.4	5.6	1.30	0.11
52.00	18.3	0.39	2.10	67.8	6	114.6	3.06	1.75	1.31	0.76	7.0	5.3	1.22	0.11
52.33	16.0	0.49	3.04	72.6	5	114.6	3.08	1.76	1.32	0.75	7.7	5.8	1.03	0.00
[illegible]66	10.9	0.32	2.89	107.3	4	114.6	3.10	1.77	1.33	0.75	7.0	5.2	0.63	0.00
[illegible]98	10.4	0.14	1.34	150.3	5	114.6	3.11	1.77	1.34	0.75	5.0	3.8	0.59	0.09
53.31	11.1	0.16	1.45	138.7	5	114.6	3.13	1.78	1.35	0.75	5.3	4.0	0.63	0.09
53.64	11.6	0.19	1.64	125.1	5	114.6	3.15	1.79	1.36	0.75	5.6	4.2	0.68	0.09

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5324
CPT File: 717CP008.COR

[illegible]ch (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
53.97	11.4	0.24	2.12	112.2	5	114.6	3.17	1.80	1.37	0.75	5.4	4.1	0.65	0.00
54.30	12.6	0.30	2.35	106.3	5	114.6	3.19	1.81	1.38	0.74	6.0	4.5	0.75	0.00
54.63	12.0	0.27	2.22	96.9	5	114.6	3.21	1.82	1.39	0.74	5.7	4.2	0.70	0.00
54.95	13.4	0.26	1.94	78.7	5	114.6	3.23	1.83	1.40	0.74	6.4	4.7	0.81	0.09
55.28	14.1	0.34	2.38	49.9	5	114.6	3.25	1.83	1.41	0.74	6.7	5.0	0.87	0.00
55.61	18.7	0.39	2.06	61.1	6	114.6	3.27	1.84	1.42	0.74	7.2	5.3	1.24	0.11
55.94	17.7	0.42	2.38	21.1	5	114.6	3.28	1.85	1.43	0.74	8.5	6.2	1.15	0.10
56.27	14.0	0.29	2.05	27.3	5	114.6	3.30	1.86	1.44	0.73	6.7	4.9	0.85	0.09
56.59	13.8	0.29	2.07	39.8	5	114.6	3.32	1.87	1.45	0.73	6.6	4.8	0.84	0.09
56.92	24.1	0.55	2.27	59.3	6	114.6	3.34	1.88	1.46	0.73	9.2	6.7	1.66	0.14
57.25	24.5	0.85	3.46	62.6	5	114.6	3.36	1.89	1.47	0.73	11.7	8.5	1.69	0.00
57.58	22.8	0.75	3.30	48.2	5	114.6	3.38	1.89	1.48	0.73	10.9	7.9	1.55	0.00
57.91	22.8	0.60	2.62	58.6	5	114.6	3.40	1.90	1.49	0.73	10.9	7.9	1.55	0.13
58.23	21.4	0.60	2.81	55.8	5	114.6	3.42	1.91	1.50	0.72	10.3	7.4	1.44	0.00
58.56	26.2	1.04	3.96	32.9	4	114.6	3.43	1.92	1.51	0.72	16.7	12.1	1.82	0.00
58.89	22.3	0.76	3.42	14.2	5	114.6	3.45	1.93	1.52	0.72	10.7	7.7	1.50	0.00
59.22	20.9	0.44	2.09	22.2	6	114.6	3.47	1.94	1.54	0.72	8.0	5.7	1.39	0.12
59.55	26.0	0.48	1.85	33.0	6	114.6	3.49	1.95	1.55	0.72	9.9	7.1	1.80	0.15
59.87	25.5	0.65	2.54	43.9	6	114.6	3.51	1.95	1.56	0.72	9.8	7.0	1.76	0.15
60.20	18.2	0.46	2.50	44.2	5	114.6	3.53	1.96	1.57	0.71	8.7	6.2	1.18	0.10
60.53	14.4	0.27	1.88	58.2	5	114.6	3.55	1.97	1.58	0.71	6.9	4.9	0.87	0.09
60.86	14.3	0.26	1.83	72.2	5	114.6	3.57	1.98	1.59	0.71	6.8	4.9	0.86	0.09
61.19	12.0	0.19	1.59	84.1	5	114.6	3.58	1.99	1.60	0.71	5.7	4.1	0.67	0.09
61.52	11.8	0.23	1.96	96.6	5	114.6	3.60	2.00	1.61	0.71	5.6	4.0	0.65	0.00
61.84	16.2	0.19	1.15	81.4	6	114.6	3.62	2.01	1.62	0.71	6.2	4.4	1.01	0.10
62.17	12.0	0.07	0.59	78.3	6	114.6	3.64	2.01	1.63	0.70	4.6	3.2	0.67	0.09
62.50	8.4	0.05	0.60	110.4	6	114.6	3.66	2.02	1.64	0.70	3.2	2.3	0.38	0.00
[illegible]83	9.0	0.05	0.50	119.9	6	114.6	3.68	2.03	1.65	0.70	3.4	2.4	0.42	0.00
[illegible]16	7.7	0.05	0.59	139.9	1	111.4	3.70	2.04	1.66	0.70	3.7	2.6	0.32	0.00
63.48	8.5	0.04	0.47	154.4	6	114.6	3.72	2.05	1.67	0.70	3.3	2.3	0.38	0.00
63.81	11.0	0.05	0.41	133.9	6	114.6	3.73	2.06	1.68	0.70	4.2	2.9	0.58	0.00
64.14	11.9	0.07	0.59	111.0	6	114.6	3.75	2.06	1.69	0.70	4.5	3.2	0.65	0.09
64.47	11.7	0.10	0.81	106.6	6	114.6	3.77	2.07	1.70	0.69	4.5	3.1	0.64	0.09
64.80	20.2	0.11	0.52	116.4	6	114.6	3.79	2.08	1.71	0.69	7.7	5.4	1.31	0.11
65.12	44.6	0.17	0.38	42.5	8	120.9	3.81	2.09	1.72	0.69	10.7	7.4	UnDef	0.08
65.45	39.2	0.52	1.32	43.9	7	117.8	3.83	2.10	1.73	0.69	12.5	8.6	UnDef	0.30
65.78	32.7	0.49	1.50	55.6	6	114.6	3.85	2.11	1.74	0.69	12.5	8.6	2.31	0.20
66.11	35.6	0.42	1.17	64.5	7	117.8	3.87	2.12	1.75	0.69	11.4	7.8	UnDef	0.24
66.44	53.4	0.29	0.54	28.5	8	120.9	3.89	2.13	1.76	0.69	12.8	8.8	UnDef	0.11
66.76	59.4	0.40	0.68	33.0	8	120.9	3.91	2.14	1.77	0.68	14.2	9.7	UnDef	0.12
67.09	72.0	0.57	0.79	43.2	8	120.9	3.93	2.15	1.78	0.68	17.2	11.8	UnDef	0.14
67.42	72.3	0.59	0.81	52.3	8	120.9	3.95	2.16	1.79	0.68	17.3	11.8	UnDef	0.14
67.75	61.3	0.64	1.05	53.6	7	117.8	3.97	2.17	1.80	0.68	19.6	13.3	UnDef	0.17
68.08	65.9	0.44	0.67	53.9	8	120.9	3.99	2.17	1.81	0.68	15.8	10.7	UnDef	0.13
68.40	77.4	0.40	0.51	53.1	8	120.9	4.01	2.18	1.82	0.68	18.5	12.5	UnDef	0.12
68.73	67.4	0.46	0.68	54.9	8	120.9	4.03	2.19	1.83	0.68	16.1	10.9	UnDef	0.13
69.06	75.7	0.52	0.69	57.2	8	120.9	4.05	2.20	1.84	0.67	18.1	12.2	UnDef	0.14
69.39	83.6	0.71	0.85	57.1	8	120.9	4.07	2.21	1.85	0.67	20.0	13.5	UnDef	0.16
69.72	84.3	0.98	1.16	58.0	8	120.9	4.09	2.22	1.86	0.67	20.2	13.5	UnDef	0.19
70.05	238.2	3.61	1.52	45.6	8	120.9	4.11	2.23	1.87	0.67	57.0	38.2	UnDef	0.00
70.37	461.4	4.87	1.05	39.7	9	124.1	4.13	2.24	1.88	0.67	88.4	59.0	UnDef	0.00
70.70	478.9	3.86	0.81	32.0	10	127.3	4.15	2.25	1.89	0.67	76.4	50.9	UnDef	0.00
71.03	381.1	2.02	0.53	-10.6	10	127.3	4.17	2.26	1.90	0.66	60.8	40.4	UnDef	0.00
71.36	363.7	2.32	0.64	-19.3	10	127.3	4.19	2.27	1.91	0.66	58.1	38.5	UnDef	0.00

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5324
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-8
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/23/03
CPT Time: 12:41
CPT File: 717CP008.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 3.05 (ft): 10.0
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-04	0.00	1000.0	0.58	10	41.6	0.0	41.6	0.0	50	89.4	1.0	-0.35	0.0	13.9
0.49	5.0E-04	0.00	1000.0	1.04	9	67.5	0.0	67.5	0.6	50	87.5	1.0	-0.41	0.0	22.5
0.82	5.0E-04	0.00	923.2	1.23	9	85.5	0.0	85.5	1.6	50	87.0	1.0	-0.42	0.0	28.5
1.15	5.0E-04	0.00	746.3	1.45	9	96.8	0.0	96.8	2.9	50	85.7	1.0	-0.43	0.0	32.3
1.48	5.0E-04	-0.01	595.1	1.53	9	99.3	0.0	99.3	3.8	50	82.8	1.0	-0.41	0.0	33.1
1.80	5.0E-04	-0.01	513.1	1.61	9	104.6	0.0	104.6	4.6	48	81.5	1.0	-0.40	0.0	34.9
2.13	5.0E-04	-0.01	410.9	1.54	9	99.1	0.4	99.4	5.1	48	77.5	1.0	-0.38	0.1	33.1
2.46	5.0E-04	-0.01	368.1	1.15	9	102.4	0.0	102.4	3.8	48	76.4	1.0	-0.33	0.0	34.1
2.79	5.0E-03	0.00	498.3	0.91	9	157.3	0.0	157.3	1.6	48	86.9	1.0	-0.33	0.0	39.3
3.12	5.0E-02	0.00	748.1	0.88	10	264.8	0.0	264.8	0.5	50	95.0	1.0	-0.36	0.0	53.0
3.44	5.0E-02	0.00	799.1	0.93	10	314.0	0.0	314.0	0.6	50	95.0	1.0	-0.38	0.0	62.8
3.77	5.0E-02	0.00	803.7	0.93	10	347.2	0.0	347.2	0.6	50	95.0	1.0	-0.38	0.0	69.4
4.10	5.0E-02	0.00	787.0	0.96	9	370.7	0.0	370.7	0.7	50	95.0	1.0	-0.38	0.0	74.1
4.43	5.0E-02	0.00	688.0	1.11	9	347.7	0.0	347.7	1.7	50	95.0	1.0	-0.38	0.0	68.1
4.76	5.0E-02	0.00	608.5	1.06	9	319.2	0.0	319.2	1.8	50	95.0	1.0	-0.37	0.0	62.5
5.09	5.0E-02	0.00	567.9	0.92	9	308.3	0.0	308.3	1.3	50	95.0	1.0	-0.34	0.0	60.4
5.41	5.0E-02	0.00	582.7	0.95	9	326.7	0.0	326.7	1.4	50	95.0	1.0	-0.35	0.0	63.9
5.74	5.0E-02	0.00	613.2	0.89	9	354.3	0.0	354.3	1.0	50	95.0	1.0	-0.35	0.0	69.3
6.07	5.0E-02	0.00	571.5	0.96	9	339.8	0.0	339.8	1.5	50	95.0	1.0	-0.35	0.0	66.5
6.40	5.0E-02	0.00	546.1	1.03	9	333.6	0.0	333.6	1.9	50	95.0	1.0	-0.35	0.0	65.3
6.73	5.0E-02	0.00	506.5	1.10	9	317.5	0.0	317.5	2.5	48	95.0	1.0	-0.35	0.0	62.1
7.05	5.0E-03	0.00	488.7	1.33	9	313.8	0.0	313.8	3.6	48	95.0	1.0	-0.37	0.0	76.8
7.38	5.0E-03	0.00	455.7	1.18	9	299.3	0.0	299.3	3.2	48	95.0	1.0	-0.35	0.0	73.2
7.79	5.0E-03	0.00	368.0	1.17	9	248.4	0.0	248.4	3.9	48	93.4	1.0	-0.33	0.0	60.8
8.20	5.0E-03	0.00	229.2	1.41	9	159.0	10.6	169.6	7.3	46	80.6	1.0	-0.30	1.6	40.5
8.53	5.0E-04	0.00	136.3	2.21	7	96.7	33.0	129.7	14.5	44	66.3	1.0	-0.31	6.0	37.5
8.86	5.0E-05	0.00	91.2	2.29	7	66.1	37.3	103.5	18.5	42	55.4	10.0	-0.27	7.5	33.4
9.19	5.0E-05	0.00	64.0	1.69	7	47.4	28.9	76.3	19.2	40	45.9	10.0	-0.20	5.8	24.3
9.51	5.0E-05	0.00	48.2	1.94	7	36.5	37.4	73.8	24.0	38	38.4	10.0	-0.18	6.6	20.9
9.84	5.0E-06	0.00	34.1	2.72	6	26.5	76.9	103.4	32.9	UnDef	UnDef	10.0	UnDef	11.3	24.2
10.17	5.0E-06	0.00	31.4	2.87	6	24.7	97.1	121.8	34.9	UnDef	UnDef	10.0	UnDef	12.0	24.1
10.50	5.0E-06	0.00	27.7	2.85	6	22.1	88.3	110.4	36.8	UnDef	UnDef	10.0	UnDef	10.8	21.6
10.83	5.0E-06	0.00	26.7	2.95	6	21.4	85.8	107.2	37.9	UnDef	UnDef	10.0	UnDef	10.5	21.0
11.15	5.0E-06	0.00	24.7	3.14	6	20.1	80.4	100.4	40.1	UnDef	UnDef	10.0	UnDef	9.8	19.7
11.48	5.0E-06	0.00	29.1	2.77	6	23.6	94.5	118.1	35.6	UnDef	UnDef	10.0	UnDef	11.6	23.1
11.81	5.0E-06	0.00	30.0	2.77	6	24.5	98.2	122.7	35.1	UnDef	UnDef	10.0	UnDef	12.0	24.0
12.14	5.0E-06	0.00	28.9	3.10	6	23.9	95.4	119.3	37.3	UnDef	UnDef	10.0	UnDef	11.7	23.4
12.47	5.0E-06	0.01	30.9	2.63	6	25.6	87.3	112.9	34.0	UnDef	UnDef	10.0	UnDef	11.7	24.2
12.80	5.0E-05	-0.01	41.2	2.74	6	34.1	69.4	103.4	30.1	38	36.4	10.0	-0.21	9.6	23.0

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CPT File: 717CP008.COR

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-06	0.00	38.2	2.78	6	31.9	76.2	108.1	31.4	UnDef	UnDef	10.0	UnDef	12.3	27.9
13.45	5.0E-05	0.00	50.7	1.76	7	42.2	36.2	78.4	22.3	38	42.5	10.0	-0.18	6.7	23.2
13.78	5.0E-04	0.00	93.8	1.13	9	77.8	18.1	96.0	12.1	42	60.1	1.0	-0.19	3.4	28.8
14.11	5.0E-04	-0.01	78.1	1.33	7	65.4	23.7	89.1	15.0	42	55.1	1.0	-0.19	4.3	25.6
14.44	5.0E-04	-0.01	64.3	1.42	7	54.4	27.3	81.7	17.5	40	49.8	1.0	-0.18	4.7	22.4
14.76	5.0E-04	0.00	59.8	1.25	7	51.0	24.7	75.7	17.2	40	48.0	1.0	-0.16	4.3	20.9
15.09	5.0E-04	-0.01	56.5	0.93	7	48.5	18.8	67.3	15.4	40	46.5	1.0	-0.13	3.3	19.2
15.42	5.0E-05	-0.01	30.9	1.41	7	27.2	37.5	64.7	26.7	36	30.0	10.0	-0.11	6.1	16.7
15.75	5.0E-05	-0.02	22.2	1.31	7	20.0	45.9	65.9	31.1	34	30.0	10.0	-0.07	6.0	13.9
16.08	5.0E-05	0.00	15.5	1.27	6	14.3	57.3	71.7	37.1	32	30.0	6.3	-0.03	5.6	11.2
16.40	5.0E-06	0.01	11.5	1.53	6	10.9	43.7	54.7	45.4	UnDef	UnDef	4.0	UnDef	5.4	10.7
16.73	5.0E-07	0.08	6.0	2.16	4	6.2	25.0	31.2	66.3	UnDef	UnDef	1.6	UnDef	4.1	8.1
17.06	5.0E-06	0.05	8.6	0.96	6	8.6	34.4	43.0	46.3	UnDef	UnDef	2.7	UnDef	4.2	8.4
17.39	5.0E-05	0.00	12.8	0.39	7	12.4	0.0	12.4	5.0	30	30.0	4.7	0.07	0.0	4.8
17.72	5.0E-05	0.00	19.0	0.20	7	17.8	0.0	17.8	5.0	32	30.0	8.7	0.09	0.0	7.0
18.04	5.0E-05	0.00	18.0	0.27	7	17.0	0.0	17.0	5.0	32	30.0	8.0	0.07	0.0	6.7
18.37	5.0E-05	0.00	16.5	0.37	7	15.9	0.0	15.9	5.0	32	30.0	7.0	0.06	0.0	6.2
18.70	5.0E-05	0.00	15.9	0.38	7	15.4	0.0	15.4	5.0	32	30.0	6.6	0.06	0.0	6.0
19.03	5.0E-05	0.00	14.6	0.37	7	14.3	0.0	14.3	5.0	32	30.0	5.8	0.07	0.0	5.6
19.36	5.0E-05	0.00	16.2	0.26	7	15.8	0.0	15.8	5.0	32	30.0	6.8	0.09	0.0	6.2
19.68	5.0E-05	0.00	17.7	0.23	7	17.3	0.0	17.3	5.0	32	30.0	7.8	0.09	0.0	6.8
20.01	5.0E-04	0.00	22.6	0.26	7	21.9	0.0	21.9	5.0	34	30.0	1.0	0.06	0.0	7.1
20.34	5.0E-04	0.00	24.5	0.19	7	23.7	0.0	23.7	5.0	34	30.0	1.0	0.07	0.0	7.7
20.67	5.0E-04	0.00	26.7	0.17	7	25.8	0.0	25.8	5.0	36	30.0	1.0	0.07	0.0	8.4
21.00	5.0E-04	0.00	28.5	0.22	7	27.7	0.0	27.7	5.0	36	30.5	1.0	0.05	0.0	9.0
21.33	5.0E-04	0.00	21.7	0.20	7	21.5	0.0	21.5	5.0	34	30.0	1.0	0.08	0.0	7.0
21.65	5.0E-05	0.00	20.1	0.52	7	20.1	22.6	42.7	24.8	34	30.0	9.5	0.01	3.9	11.8
[illegible]98	5.0E-04	0.00	28.4	0.40	7	28.0	0.0	28.0	5.0	36	30.8	1.0	0.00	0.0	9.1
[illegible]31	5.0E-04	0.00	28.2	0.40	7	27.9	0.0	27.9	5.0	36	30.7	1.0	0.00	0.0	9.1
22.64	5.0E-04	0.00	26.8	0.40	7	26.8	0.0	26.8	5.0	36	30.0	1.0	0.01	0.0	8.7
22.97	5.0E-04	0.00	25.5	0.46	7	25.7	0.0	25.7	5.0	34	30.0	1.0	0.00	0.0	8.4
23.29	5.0E-03	0.00	38.1	0.25	9	37.9	0.0	37.9	5.0	38	39.5	1.0	0.01	0.0	9.3
23.62	5.0E-03	0.00	38.7	0.31	9	38.6	0.0	38.6	5.0	38	40.0	1.0	0.00	0.0	9.4
23.95	5.0E-04	0.00	29.7	0.83	7	30.1	26.4	56.5	22.5	36	32.8	1.0	-0.06	4.1	13.9
24.28	5.0E-04	0.00	51.7	1.44	7	51.6	34.8	86.5	20.1	38	48.3	1.0	-0.16	5.7	22.5
24.61	5.0E-02	0.00	210.5	0.66	9	206.9	0.0	206.9	3.6	46	88.1	1.0	-0.22	0.0	40.5
24.93	5.0E-02	0.00	328.1	0.91	9	323.3	0.0	323.3	3.1	48	95.0	1.0	-0.29	0.0	63.3
25.26	5.0E-03	0.00	283.0	1.47	9	280.5	11.7	292.2	6.5	46	95.0	1.0	-0.33	1.8	70.4
25.59	5.0E-03	0.00	234.3	1.31	9	233.6	11.4	245.0	6.7	46	91.6	1.0	-0.30	1.7	58.9
25.92	5.0E-02	0.00	219.5	0.97	9	220.0	1.4	221.3	5.2	46	89.9	1.0	-0.26	0.2	43.2
26.25	5.0E-02	0.00	175.9	0.96	9	177.4	7.0	184.4	6.4	44	83.7	1.0	-0.24	0.8	35.6
26.57	5.0E-02	0.00	140.8	0.84	9	143.1	8.3	151.3	7.0	44	77.5	1.0	-0.20	1.0	29.0
26.90	5.0E-03	0.00	45.1	0.67	7	47.1	18.7	65.8	15.6	38	45.7	1.0	-0.08	2.5	14.0
27.23	5.0E-05	0.02	17.0	1.43	6	18.7	74.9	93.6	36.8	32	30.0	7.3	-0.04	7.3	14.7
27.56	5.0E-03	0.01	53.8	0.75	9	56.3	19.1	75.4	14.5	40	50.8	1.0	-0.10	2.6	16.4
27.89	5.0E-03	0.00	56.1	0.42	9	59.0	0.0	59.0	5.0	40	52.1	1.0	-0.06	0.0	14.4
28.21	5.0E-03	0.00	55.5	0.43	9	58.6	0.0	58.6	5.0	40	51.9	1.0	-0.06	0.0	14.3
28.54	5.0E-03	0.00	74.4	0.43	9	78.4	0.0	78.4	5.0	40	60.3	1.0	-0.09	0.0	19.2
28.87	5.0E-02	0.00	120.1	0.16	9	126.0	0.0	126.0	2.2	42	73.9	1.0	-0.05	0.0	24.7
29.20	5.0E-02	0.00	102.7	0.11	9	108.5	0.0	108.5	2.6	42	69.6	1.0	0.00	0.0	21.2
29.53	5.0E-02	0.00	75.3	0.12	9	80.3	0.0	80.3	4.7	40	61.0	1.0	0.01	0.0	15.7
29.86	5.0E-03	0.00	65.5	0.09	9	70.4	0.0	70.4	5.0	40	57.2	1.0	0.05	0.0	17.2
30.18	5.0E-02	0.00	75.5	0.14	9	81.3	0.0	81.3	5.0	40	61.3	1.0	0.00	0.0	15.9
30.59	5.0E-03	0.00	64.1	0.18	9	69.6	0.0	69.6	5.0	40	56.9	1.0	-0.01	0.0	17.0
31.00	5.0E-03	0.00	56.6	0.15	9	62.0	0.0	62.0	5.0	40	53.6	1.0	0.02	0.0	15.2
31.33	5.0E-03	0.00	44.6	0.28	9	49.4	0.0	49.4	5.0	38	47.0	1.0	-0.01	0.0	12.1
31.66	5.0E-04	0.00	32.4	0.80	7	36.4	27.2	63.6	21.0	36	38.3	1.0	-0.06	4.3	16.2
31.99	5.0E-04	0.00	23.2	0.89	7	26.7	36.8	63.5	26.7	34	30.0	1.0	-0.04	5.0	13.7
[illegible]32	5.0E-03	0.00	30.4	0.20	9	34.5	0.0	34.5	5.0	36	36.8	1.0	0.05	0.0	8.5
[illegible]64	5.0E-03	0.00	37.5	0.10	9	42.4	0.0	42.4	5.0	38	42.7	1.0	0.09	0.0	10.4
32.97	5.0E-03	0.00	31.7	0.14	9	36.3	0.0	36.3	5.0	36	38.2	1.0	0.08	0.0	8.9
33.30	5.0E-03	0.00	37.1	0.23	9	42.4	0.0	42.4	5.0	38	42.7	1.0	0.02	0.0	10.4

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[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-03	0.00	52.4	0.52	9	59.3	14.9	74.2	12.5	40	52.3	1.0	-0.07	2.1	16.6
33.96	5.0E-04	0.00	40.7	1.11	7	46.7	33.8	80.5	20.7	38	45.4	1.0	-0.11	5.4	20.7
34.28	5.0E-04	0.00	27.8	1.28	7	32.5	48.1	80.6	27.4	36	35.1	1.0	-0.09	6.3	16.9
34.61	5.0E-05	0.00	19.1	1.26	7	23.0	70.5	93.5	33.2	32	30.0	8.8	-0.05	8.0	17.1
34.94	5.0E-05	0.00	16.8	1.40	6	20.5	82.0	102.5	36.8	32	30.0	7.2	-0.04	8.0	16.1
35.27	5.0E-04	0.00	18.9	1.08	7	22.9	57.9	80.9	31.8	32	30.0	1.0	-0.04	6.1	13.6
35.60	5.0E-04	0.00	22.2	1.05	7	26.7	47.0	73.7	28.9	34	30.0	1.0	-0.05	5.8	14.5
35.92	5.0E-05	0.00	19.7	1.44	6	24.0	85.0	108.9	34.2	34	30.0	9.2	-0.06	8.9	18.3
36.25	5.0E-05	0.02	15.4	2.07	6	19.3	77.1	96.3	43.2	32	30.0	6.3	-0.06	7.5	15.1
36.58	5.0E-05	0.01	19.2	1.42	6	23.6	86.5	110.1	34.4	34	30.0	8.9	-0.06	8.9	18.2
36.91	5.0E-05	0.00	20.1	1.41	6	24.7	79.5	104.2	33.6	34	30.0	9.5	-0.06	8.8	18.5
37.24	5.0E-05	0.01	16.8	1.84	6	21.1	84.3	105.3	39.9	32	30.0	7.2	-0.06	8.2	16.5
37.57	5.0E-05	0.01	15.2	1.98	6	19.2	76.9	96.2	42.9	32	30.0	6.1	-0.06	7.5	15.1
37.89	5.0E-04	0.00	21.4	1.23	7	26.4	60.2	86.7	31.0	34	30.0	1.0	-0.06	6.6	15.3
38.22	5.0E-05	0.00	18.9	1.30	6	23.7	78.3	102.0	33.8	32	30.0	8.7	-0.05	8.6	17.8
38.55	5.0E-05	0.01	15.8	1.48	6	20.2	80.6	100.8	38.5	32	30.0	6.5	-0.04	7.9	15.8
38.88	5.0E-05	0.02	14.9	1.73	6	19.1	76.5	95.6	41.6	32	30.0	5.9	-0.04	7.5	15.0
39.21	5.0E-04	0.00	21.1	1.30	7	26.5	66.8	93.2	31.8	34	30.0	1.0	-0.06	7.0	15.6
39.53	5.0E-04	0.00	27.0	1.07	7	33.4	42.9	76.3	26.0	36	35.9	1.0	-0.07	5.9	16.8
39.86	5.0E-04	0.00	27.3	1.15	7	33.8	45.7	79.6	26.5	36	36.2	1.0	-0.08	6.2	17.2
40.19	5.0E-04	0.00	32.3	1.05	7	39.9	37.9	77.8	23.2	36	40.9	1.0	-0.08	5.7	18.7
40.52	5.0E-04	0.00	31.5	1.05	7	39.0	38.6	77.6	23.6	36	40.3	1.0	-0.08	5.7	18.5
40.85	5.0E-04	0.00	35.9	1.02	7	44.4	35.2	79.6	21.6	38	44.0	1.0	-0.09	5.5	20.0
41.17	5.0E-04	0.00	35.0	1.06	7	43.5	37.3	80.8	22.3	38	43.4	1.0	-0.09	5.8	19.9
41.50	5.0E-04	0.00	28.1	1.12	7	35.4	44.7	80.1	25.9	36	37.5	1.0	-0.08	6.2	17.7
41.83	5.0E-04	0.00	22.1	1.34	7	28.4	68.1	96.4	31.4	34	31.2	1.0	-0.07	7.3	16.6
42.16	5.0E-05	0.00	17.6	1.66	6	23.1	92.4	115.4	37.8	32	30.0	7.7	-0.06	9.0	18.1
[illegible]49	5.0E-05	0.00	16.9	1.62	6	22.2	88.9	111.1	38.4	32	30.0	7.2	-0.05	8.7	17.4
[illegible]81	5.0E-05	0.00	15.3	1.65	6	20.4	81.6	102.0	40.5	32	30.0	6.2	-0.05	8.0	16.0
43.14	5.0E-05	0.01	13.2	1.77	6	18.0	71.9	89.9	44.3	32	30.0	5.0	-0.04	7.0	14.1
43.47	5.0E-05	0.01	10.6	1.99	6	14.8	59.3	74.1	50.7	30	30.0	3.6	-0.02	5.8	11.6
43.80	5.0E-05	0.01	9.8	1.80	6	14.0	55.8	69.8	51.0	30	30.0	3.2	0.00	5.5	10.9
44.13	5.0E-06	0.03	7.1	2.34	4	10.7	42.7	53.3	62.9	UnDef	UnDef	2.0	UnDef	5.2	10.4
44.45	5.0E-06	0.11	5.1	3.05	1	8.3	UnDef	UnDef	100.0	UnDef	UnDef	1.4	UnDef	UnDef	UnDef
44.78	5.0E-06	0.06	7.1	2.39	4	10.8	43.1	53.8	63.2	UnDef	UnDef	2.0	UnDef	5.3	10.5
45.11	5.0E-05	0.04	9.0	1.96	6	13.1	52.2	65.3	54.4	30	30.0	2.8	0.00	5.1	10.2
45.44	5.0E-05	0.02	9.5	1.87	6	13.8	55.1	68.9	52.3	30	30.0	3.1	0.00	5.4	10.8
45.77	5.0E-06	0.05	8.2	2.28	4	12.2	48.8	61.0	58.8	UnDef	UnDef	2.5	UnDef	6.0	11.9
46.10	5.0E-05	0.04	9.3	2.13	4	13.6	54.5	68.1	54.6	30	30.0	3.0	-0.01	5.3	10.7
46.42	5.0E-05	0.03	9.5	2.12	4	13.8	55.3	69.2	54.2	30	30.0	3.0	-0.01	5.4	10.8
46.75	5.0E-06	0.04	8.3	2.31	4	12.5	49.9	62.4	58.6	UnDef	UnDef	2.5	UnDef	6.1	12.2
47.08	5.0E-05	0.04	8.9	2.05	4	13.2	52.8	66.0	55.2	30	30.0	2.8	0.00	5.2	10.3
47.41	5.0E-05	0.03	9.2	2.08	4	13.6	54.4	68.0	54.6	30	30.0	2.9	0.00	5.3	10.7
47.74	5.0E-05	0.03	10.2	1.95	6	14.9	59.6	74.5	51.3	30	30.0	3.4	-0.01	5.8	11.7
48.06	5.0E-05	0.02	11.6	1.79	6	16.7	66.8	83.5	47.2	30	30.0	4.1	-0.02	6.5	13.1
48.39	5.0E-05	0.02	10.6	1.83	6	15.5	62.1	77.6	49.5	30	30.0	3.6	-0.01	6.1	12.1
48.72	5.0E-05	0.04	8.7	2.29	4	13.1	52.6	65.7	57.4	30	30.0	2.7	0.00	5.1	10.3
49.05	5.0E-05	0.03	10.4	2.01	6	15.4	61.6	77.0	51.1	30	30.0	3.5	-0.02	6.0	12.1
49.38	5.0E-05	0.02	9.7	2.12	6	14.5	58.1	72.6	53.6	30	30.0	3.1	-0.01	5.7	11.4
49.70	5.0E-05	0.03	8.5	2.24	4	13.0	51.9	64.8	57.7	30	30.0	2.6	0.00	5.1	10.2
50.03	5.0E-05	0.04	8.8	2.18	4	13.4	53.8	67.2	56.3	30	30.0	2.7	0.00	5.3	10.5
50.36	5.0E-05	0.02	12.2	1.63	6	17.8	71.4	89.2	44.9	30	30.0	4.4	-0.02	7.0	14.0
50.69	5.0E-05	0.02	12.4	1.67	6	18.1	72.4	90.6	44.9	30	30.0	4.5	-0.02	7.1	14.2
51.02	5.0E-05	0.03	12.2	1.79	6	17.9	71.7	89.6	46.1	30	30.0	4.4	-0.03	7.0	14.0
51.34	5.0E-05	0.04	10.1	2.03	6	15.3	61.3	76.6	51.9	30	30.0	3.3	-0.01	6.0	12.0
51.67	5.0E-05	0.06	9.3	2.26	4	14.3	57.1	71.4	55.5	30	30.0	3.0	-0.01	5.6	11.2
52.00	5.0E-05	0.05	8.7	2.53	4	13.6	54.3	67.8	58.8	30	30.0	2.7	-0.01	5.3	10.6
52.33	5.0E-06	0.07	7.4	3.76	1	11.8	UnDef	UnDef	100.0	UnDef	UnDef	2.1	UnDef	UnDef	UnDef
[illegible]66	5.0E-07	0.26	4.4	4.04	1	8.0	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
[illegible]98	5.0E-06	0.46	4.1	1.91	4	7.7	30.7	38.4	75.0	UnDef	UnDef	1.1	UnDef	3.8	7.5
53.31	5.0E-06	0.38	4.4	2.02	4	8.1	32.4	40.5	73.6	UnDef	UnDef	1.2	UnDef	4.0	7.9
53.64	5.0E-06	0.30	4.7	2.25	4	8.5	33.9	42.4	73.7	UnDef	UnDef	1.3	UnDef	4.2	8.3

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5324
CPT File: 717CP008.COR

[d]epth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
53.97	5.0E-06	0.26	4.5	2.94	1	8.3	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
54.30	5.0E-06	0.21	5.2	3.14	1	9.2	UnDef	UnDef	100.0	UnDef	UnDef	1.4	UnDef	UnDef	UnDef
54.63	5.0E-06	0.19	4.8	3.04	1	8.7	UnDef	UnDef	100.0	UnDef	UnDef	1.3	UnDef	UnDef	UnDef
54.95	5.0E-06	0.10	5.6	2.56	4	9.7	38.8	48.5	71.0	UnDef	UnDef	1.5	UnDef	4.7	9.5
55.28	5.0E-06	0.01	5.9	3.10	1	10.2	UnDef	UnDef	100.0	UnDef	UnDef	1.6	UnDef	UnDef	UnDef
55.61	5.0E-05	0.03	8.4	2.49	4	13.5	54.1	67.6	59.5	30	30.0	2.6	-0.01	5.3	10.6
55.94	5.0E-06	-0.05	7.8	2.92	4	12.7	50.9	63.6	64.1	UnDef	UnDef	2.3	UnDef	6.2	12.5
56.27	5.0E-06	-0.06	5.7	2.68	4	10.0	40.1	50.1	70.9	UnDef	UnDef	1.6	UnDef	4.9	9.8
56.59	5.0E-06	-0.02	5.6	2.73	4	9.9	39.5	49.4	71.9	UnDef	UnDef	1.5	UnDef	4.8	9.7
56.92	5.0E-05	0.02	11.0	2.63	4	17.2	68.8	86.0	53.9	30	30.0	3.8	-0.04	6.7	13.5
57.25	5.0E-06	0.02	11.2	4.01	1	17.4	UnDef	UnDef	100.0	UnDef	UnDef	3.9	UnDef	UnDef	UnDef
57.58	5.0E-06	0.00	10.2	3.88	1	16.2	UnDef	UnDef	100.0	UnDef	UnDef	3.4	UnDef	UnDef	UnDef
57.91	5.0E-06	0.02	10.2	3.07	4	16.2	64.7	80.9	58.2	UnDef	UnDef	3.4	UnDef	7.9	15.8
58.23	5.0E-06	0.01	9.4	3.34	1	15.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
58.56	5.0E-07	-0.02	11.9	4.56	1	18.5	UnDef	UnDef	100.0	UnDef	UnDef	4.2	UnDef	UnDef	UnDef
58.89	5.0E-06	-0.06	9.8	4.05	1	15.7	UnDef	UnDef	100.0	UnDef	UnDef	3.2	UnDef	UnDef	UnDef
59.22	5.0E-05	-0.05	9.0	2.51	4	14.7	58.7	73.4	58.0	30	30.0	2.8	-0.02	5.7	11.5
59.55	5.0E-05	-0.02	11.6	2.14	6	18.2	72.9	91.1	49.8	30	30.0	4.0	-0.04	7.1	14.3
59.87	5.0E-05	-0.01	11.3	2.94	4	17.9	71.4	89.3	55.2	30	30.0	3.9	-0.06	7.0	14.0
60.20	5.0E-06	-0.01	7.5	3.10	4	12.7	50.9	63.6	66.2	UnDef	UnDef	2.2	UnDef	6.2	12.5
60.53	5.0E-06	0.02	5.5	2.49	4	10.1	40.2	50.3	70.7	UnDef	UnDef	1.5	UnDef	4.9	9.8
60.86	5.0E-06	0.06	5.4	2.44	4	9.9	39.7	49.6	71.0	UnDef	UnDef	1.5	UnDef	4.9	9.7
61.19	5.0E-06	0.12	4.2	2.27	4	8.3	33.2	41.5	77.2	UnDef	UnDef	1.1	UnDef	4.1	8.1
61.52	5.0E-06	0.17	4.1	2.82	1	8.2	UnDef	UnDef	100.0	UnDef	UnDef	1.1	UnDef	UnDef	UnDef
61.84	5.0E-05	0.07	6.3	1.48	4	11.2	44.8	55.9	59.3	30	30.0	1.7	0.06	4.4	8.8
62.17	5.0E-05	0.10	4.1	0.84	4	8.3	33.0	41.3	63.7	30	30.0	1.1	0.13	3.2	6.5
62.50	5.0E-05	0.38	2.3	1.06	1	5.8	UnDef	UnDef	100.0	30	30.0	0.7	0.21	UnDef	UnDef
[illegible]83	5.0E-05	0.40	2.6	0.85	1	6.2	UnDef	UnDef	100.0	30	30.0	0.7	0.21	UnDef	UnDef
[illegible]16	1.0E-07	0.68	2.0	1.13	1	5.3	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
63.48	5.0E-05	0.66	2.3	0.84	1	5.8	UnDef	UnDef	100.0	30	30.0	0.7	0.28	UnDef	UnDef
63.81	5.0E-05	0.35	3.5	0.62	1	7.5	UnDef	UnDef	100.0	30	30.0	0.9	0.20	UnDef	UnDef
64.14	5.0E-05	0.22	3.9	0.87	4	8.1	32.3	40.4	65.5	30	30.0	1.0	0.15	3.2	6.3
64.47	5.0E-05	0.20	3.8	1.19	4	8.0	31.9	39.9	70.2	30	30.0	1.0	0.13	3.1	6.3
64.80	5.0E-05	0.12	7.9	0.64	6	13.7	54.7	68.3	44.4	30	30.0	2.3	0.09	5.4	10.7
65.12	5.0E-03	-0.01	19.5	0.42	7	30.2	0.0	30.2	5.0	34	33.0	1.0	0.03	0.0	7.4
65.45	5.0E-04	-0.01	16.8	1.46	6	26.5	105.9	132.4	37.2	32	30.0	1.0	-0.05	8.6	17.3
65.78	5.0E-05	0.00	13.7	1.70	6	22.1	88.3	110.3	43.0	32	30.0	5.2	-0.04	8.6	17.3
66.11	5.0E-04	0.01	15.0	1.31	6	23.9	95.7	119.6	38.2	32	30.0	1.0	-0.03	7.8	15.6
66.44	5.0E-03	-0.02	23.3	0.59	7	35.9	34.6	70.5	23.4	34	37.9	1.0	-0.01	3.9	12.7
66.76	5.0E-03	-0.01	26.0	0.72	7	39.8	38.1	77.9	23.3	36	40.8	1.0	-0.04	4.3	14.0
67.09	5.0E-03	-0.01	31.7	0.83	7	48.1	38.3	86.4	21.6	36	46.3	1.0	-0.06	4.5	16.3
67.42	5.0E-03	0.00	31.7	0.86	7	48.2	39.4	87.6	21.9	36	46.3	1.0	-0.07	4.6	16.4
67.75	5.0E-04	0.00	26.5	1.12	7	40.7	56.6	97.3	26.8	36	41.5	1.0	-0.07	7.6	20.9
68.08	5.0E-03	0.00	28.5	0.71	7	43.7	36.0	79.7	21.9	36	43.6	1.0	-0.04	4.2	14.9
68.40	5.0E-03	0.00	33.6	0.54	7	51.2	26.7	77.9	17.8	36	48.1	1.0	-0.04	3.4	16.0
68.73	5.0E-03	0.00	28.9	0.73	7	44.5	36.5	81.0	21.9	36	44.1	1.0	-0.05	4.3	15.2
69.06	5.0E-03	0.00	32.5	0.73	7	49.9	34.3	84.2	20.2	36	47.4	1.0	-0.06	4.2	16.4
69.39	5.0E-03	0.00	35.9	0.89	7	55.0	38.9	93.9	20.5	38	50.1	1.0	-0.08	4.7	18.2
69.72	5.0E-03	0.00	36.1	1.22	7	55.3	51.8	107.2	23.1	38	50.3	1.0	-0.11	5.9	19.4
70.05	5.0E-03	0.00	104.9	1.54	9	156.0	46.0	202.0	13.5	42	80.0	1.0	-0.24	6.3	44.5
70.37	5.0E-02	0.00	203.9	1.06	9	301.5	9.8	311.4	6.2	46	95.0	1.0	-0.26	1.2	60.2
70.70	5.0E+00	0.00	210.8	0.81	9	312.3	0.0	312.3	4.5	46	95.0	1.0	-0.24	0.0	50.9
71.03	5.0E+00	-0.01	166.6	0.54	9	247.9	0.0	247.9	3.9	44	93.3	1.0	-0.18	0.0	40.4
71.36	5.0E+00	-0.01	158.1	0.64	9	236.1	0.0	236.1	5.0	44	91.9	1.0	-0.19	0.0	38.5

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Job No: 04-0401-1123-5373
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-1A
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/23/03
CPT Time: 15:11
CPT File: 717CP01A.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 8.60 (ft): 28.2
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.16	30.5	0.06	0.20	0.2	7	117.8	0.01	0.01	0.00	2.00	9.7	19.5	UnDef	0.10
0.49	128.9	0.77	0.60	-0.3	9	124.1	0.03	0.03	0.00	2.00	24.7	49.4	UnDef	0.00
0.82	211.8	1.40	0.66	-0.9	9	124.1	0.05	0.05	0.00	2.00	40.6	81.1	UnDef	0.00
1.15	299.2	3.60	1.20	-1.9	9	124.1	0.07	0.07	0.00	2.00	57.3	114.6	UnDef	0.00
[redacted]48	341.8	6.49	1.90	-8.9	8	120.9	0.09	0.09	0.00	2.00	81.8	163.7	UnDef	0.00
[redacted]80	343.7	7.92	2.30	-7.5	8	120.9	0.11	0.11	0.00	2.00	82.3	164.6	UnDef	0.00
2.13	327.7	6.25	1.91	-5.1	8	120.9	0.13	0.13	0.00	2.00	78.5	156.9	UnDef	0.00
2.46	366.0	7.39	2.02	4.5	8	120.9	0.15	0.15	0.00	2.00	87.6	175.2	UnDef	0.00
2.79	326.0	7.42	2.28	2.8	8	120.9	0.17	0.17	0.00	2.00	78.1	156.1	UnDef	0.00
3.12	269.3	4.47	1.66	-2.8	8	120.9	0.19	0.19	0.00	2.00	64.5	129.0	UnDef	0.00
3.44	312.6	4.17	1.33	-0.6	9	124.1	0.21	0.21	0.00	2.00	59.9	119.8	UnDef	0.00
3.77	345.7	4.93	1.43	-1.1	8	120.9	0.23	0.23	0.00	2.00	82.8	165.5	UnDef	0.00
4.10	377.9	6.71	1.78	0.6	8	120.9	0.25	0.25	0.00	2.00	90.5	180.9	UnDef	0.00
4.43	353.5	8.82	2.49	6.2	7	117.8	0.27	0.27	0.00	1.93	112.8	217.5	UnDef	0.00
4.76	283.8	5.03	1.77	-0.5	8	120.9	0.29	0.29	0.00	1.86	67.9	126.4	UnDef	0.00
5.09	327.8	5.20	1.59	-1.2	8	120.9	0.31	0.31	0.00	1.80	78.5	141.3	UnDef	0.00
5.41	337.8	8.52	2.52	1.0	7	117.8	0.33	0.33	0.00	1.75	107.8	188.3	UnDef	0.00
5.74	315.4	9.38	2.97	3.7	12	120.9	0.35	0.35	0.00	1.70	151.0	256.1	UnDef	0.00
6.07	224.2	6.28	2.80	-0.4	7	117.8	0.37	0.37	0.00	1.65	71.6	118.1	UnDef	0.00
6.40	180.5	2.85	1.58	-1.8	8	120.9	0.39	0.39	0.00	1.61	43.2	69.5	UnDef	0.00
6.73	204.4	3.50	1.71	-0.6	8	120.9	0.41	0.41	0.00	1.57	48.9	76.7	UnDef	0.00
7.05	255.8	5.66	2.21	1.1	7	117.8	0.43	0.43	0.00	1.53	81.7	125.1	UnDef	0.00
7.38	293.9	7.66	2.61	4.6	7	117.8	0.45	0.45	0.00	1.50	93.8	140.6	UnDef	0.00
7.79	264.1	7.82	2.96	-0.3	12	120.9	0.47	0.47	0.00	1.46	126.5	184.4	UnDef	0.00
8.20	221.1	6.86	3.10	-3.0	7	117.8	0.49	0.49	0.00	1.42	70.6	100.4	UnDef	0.00
8.53	171.6	5.68	3.31	-3.6	6	114.6	0.51	0.51	0.00	1.40	65.7	91.7	13.69	0.00
8.86	126.1	4.55	3.60	-4.0	6	114.6	0.53	0.53	0.00	1.37	48.3	66.2	10.05	0.00
9.19	95.2	2.91	3.05	-4.0	6	114.6	0.55	0.55	0.00	1.35	36.5	49.1	7.57	0.00
9.51	85.1	1.98	2.33	-0.9	7	117.8	0.57	0.57	0.00	1.32	27.2	36.0	UnDef	0.38
9.84	132.4	2.19	1.65	-0.1	8	120.9	0.59	0.59	0.00	1.30	31.7	41.3	UnDef	0.00
10.17	168.6	2.89	1.71	0.0	8	120.9	0.61	0.61	0.00	1.28	40.4	51.7	UnDef	0.00
10.50	222.8	4.70	2.11	0.1	7	117.8	0.63	0.63	0.00	1.26	71.1	89.7	UnDef	0.00
10.83	247.0	5.60	2.27	-2.2	7	117.8	0.65	0.65	0.00	1.24	78.9	97.9	UnDef	0.00
11.15	266.2	6.26	2.35	0.9	7	117.8	0.67	0.67	0.00	1.22	85.0	104.0	UnDef	0.00
11.48	253.4	5.72	2.26	-0.2	7	117.8	0.69	0.69	0.00	1.21	80.9	97.6	UnDef	0.00
[redacted]81	240.1	6.16	2.57	-0.4	7	117.8	0.71	0.71	0.00	1.19	76.7	91.2	UnDef	0.00
[redacted].14	233.8	7.40	3.17	2.5	12	120.9	0.73	0.73	0.00	1.17	111.9	131.4	UnDef	0.00
12.47	184.3	5.83	3.16	2.4	6	114.6	0.75	0.75	0.00	1.16	70.6	81.8	14.68	0.00
12.80	150.8	4.77	3.17	-1.8	6	114.6	0.76	0.76	0.00	1.14	57.7	66.1	12.00	0.00

ConeTec Inc. - CPT Interpretation
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[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
13.12	140.7	4.58	3.25	0.0	6	114.6	0.78	0.78	0.00	1.13	53.9	60.9	11.19	0.00
13.45	120.4	4.01	3.33	-0.3	6	114.6	0.80	0.80	0.00	1.12	46.1	51.5	9.57	0.00
13.78	105.8	3.49	3.30	0.4	6	114.6	0.82	0.82	0.00	1.10	40.5	44.7	8.39	0.00
14.11	95.9	2.85	2.97	0.9	6	114.6	0.84	0.84	0.00	1.09	36.7	40.1	7.61	0.00
14.44	96.3	2.53	2.63	0.9	6	114.6	0.86	0.86	0.00	1.08	36.9	39.8	7.64	0.44
14.76	87.6	2.46	2.81	2.2	6	114.6	0.88	0.88	0.00	1.07	33.5	35.8	6.93	0.41
15.09	77.9	2.00	2.57	2.5	6	114.6	0.90	0.90	0.00	1.06	29.8	31.5	6.16	0.32
15.42	70.4	1.67	2.37	1.5	6	114.6	0.91	0.91	0.00	1.05	27.0	28.2	5.56	0.26
15.75	68.0	1.37	2.01	2.3	7	117.8	0.93	0.93	0.00	1.03	21.7	22.4	UnDef	0.22
16.08	63.1	1.20	1.90	-0.1	7	117.8	0.95	0.95	0.00	1.02	20.1	20.6	UnDef	0.19
16.40	59.9	1.25	2.09	0.3	7	117.8	0.97	0.97	0.00	1.01	19.1	19.4	UnDef	0.20
16.73	45.7	1.05	2.30	-0.3	6	114.6	0.99	0.99	0.00	1.00	17.5	17.6	3.57	0.20
17.06	36.7	0.72	1.97	1.9	6	114.6	1.01	1.01	0.00	1.00	14.1	14.0	2.86	0.17
17.39	35.3	0.67	1.90	7.3	6	114.6	1.03	1.03	0.00	0.99	13.5	13.3	2.74	0.16
17.72	32.5	0.64	1.96	6.9	6	114.6	1.05	1.05	0.00	0.98	12.5	12.2	2.52	0.18
18.04	43.4	0.68	1.56	5.3	7	117.8	1.07	1.07	0.00	0.97	13.9	13.4	UnDef	0.14
18.37	47.8	0.81	1.70	1.9	7	117.8	1.09	1.09	0.00	0.96	15.3	14.6	UnDef	0.15
18.70	44.7	0.72	1.60	0.3	7	117.8	1.11	1.11	0.00	0.95	14.3	13.6	UnDef	0.14
19.03	44.6	0.69	1.54	-2.5	7	117.8	1.12	1.12	0.00	0.94	14.3	13.4	UnDef	0.14
19.36	32.6	0.69	2.12	-3.1	6	114.6	1.14	1.14	0.00	0.94	12.5	11.7	2.51	0.26
19.68	22.2	0.45	2.01	-1.2	6	114.6	1.16	1.16	0.00	0.93	8.5	7.9	1.68	0.17
20.01	8.5	0.27	3.20	5.3	3	111.4	1.18	1.18	0.00	0.92	8.1	7.5	0.58	0.00
20.34	12.2	0.31	2.51	20.4	5	114.6	1.20	1.20	0.00	0.91	5.8	5.3	0.88	0.09
20.67	25.4	0.48	1.89	10.3	6	114.6	1.22	1.22	0.00	0.91	9.7	8.8	1.94	0.21
21.00	45.1	0.79	1.76	10.0	7	117.8	1.24	1.24	0.00	0.90	14.4	12.9	UnDef	0.17
21.33	49.8	1.04	2.09	8.0	6	114.6	1.26	1.26	0.00	0.89	19.1	17.0	3.88	0.22
21.65	50.3	1.06	2.11	13.3	6	114.6	1.28	1.28	0.00	0.89	19.3	17.1	3.92	0.22
[redacted]98	50.8	1.02	2.01	23.8	6	114.6	1.29	1.29	0.00	0.88	19.4	17.1	3.96	0.21
[redacted]31	49.9	1.13	2.26	25.5	6	114.6	1.31	1.31	0.00	0.87	19.1	16.7	3.89	0.26
22.64	54.7	1.07	1.95	5.3	7	117.8	1.33	1.33	0.00	0.87	17.5	15.1	UnDef	0.21
22.97	55.1	1.02	1.85	3.8	7	117.8	1.35	1.35	0.00	0.86	17.6	15.1	UnDef	0.19
23.29	51.3	1.08	2.11	7.1	6	114.6	1.37	1.37	0.00	0.85	19.7	16.8	4.00	0.24
23.62	69.1	1.06	1.53	11.2	7	117.8	1.39	1.39	0.00	0.85	22.1	18.7	UnDef	0.18
23.95	71.9	1.01	1.40	5.4	7	117.8	1.41	1.41	0.00	0.84	23.0	19.3	UnDef	0.18
24.28	40.1	0.83	2.08	3.0	6	114.6	1.43	1.43	0.00	0.84	15.3	12.8	3.09	0.32
24.61	22.5	0.60	2.68	11.3	5	114.6	1.45	1.45	0.00	0.83	10.8	8.9	1.68	0.15
24.93	25.6	0.53	2.06	31.8	6	114.6	1.47	1.47	0.00	0.83	9.8	8.1	1.93	0.18
25.26	30.9	0.55	1.77	14.7	6	114.6	1.48	1.48	0.00	0.82	11.8	9.7	2.35	0.26
25.59	18.3	0.46	2.52	14.9	5	114.6	1.50	1.50	0.00	0.82	8.8	7.1	1.34	0.12
25.92	12.8	0.22	1.72	14.8	5	114.6	1.52	1.52	0.00	0.81	6.1	5.0	0.90	0.09
26.25	12.2	0.23	1.89	37.2	5	114.6	1.54	1.54	0.00	0.81	5.8	4.7	0.85	0.09
26.57	22.2	0.46	2.05	29.3	6	114.6	1.56	1.56	0.00	0.80	8.5	6.8	1.65	0.14
26.90	17.6	0.42	2.36	21.0	5	114.6	1.58	1.58	0.00	0.80	8.4	6.7	1.28	0.11
27.23	18.5	0.40	2.14	23.3	6	114.6	1.60	1.60	0.00	0.79	7.1	5.6	1.36	0.11
27.56	13.2	0.37	2.80	47.5	5	114.6	1.62	1.62	0.00	0.79	6.3	5.0	0.93	0.00
27.89	16.0	0.41	2.58	51.1	5	114.6	1.63	1.63	0.00	0.78	7.6	6.0	1.15	0.10
28.21	14.8	0.35	2.36	52.4	5	114.6	1.65	1.65	0.00	0.78	7.1	5.5	1.06	0.10
28.54	10.5	0.29	2.78	76.7	4	114.6	1.67	1.66	0.01	0.78	6.7	5.2	0.70	0.00
28.87	16.7	0.47	2.79	56.5	5	114.6	1.69	1.67	0.02	0.77	8.0	6.2	1.20	0.10
29.20	26.8	0.54	2.02	13.9	6	114.6	1.71	1.68	0.03	0.77	10.3	7.9	2.00	0.18
29.53	31.8	0.62	1.94	24.4	6	114.6	1.73	1.69	0.04	0.77	12.2	9.4	2.40	0.24
29.86	32.8	0.65	1.97	19.0	6	114.6	1.75	1.70	0.05	0.77	12.6	9.6	2.48	0.25
30.18	36.7	0.72	1.97	22.9	6	114.6	1.77	1.71	0.06	0.77	14.1	10.8	2.79	0.32
30.59	26.5	0.55	2.07	15.7	6	114.6	1.79	1.72	0.07	0.76	10.2	7.8	1.98	0.17
31.00	10.0	0.24	2.40	37.1	5	114.6	1.81	1.73	0.09	0.76	4.8	3.7	0.66	0.00
31.33	7.1	0.08	1.06	60.6	5	114.6	1.83	1.73	0.10	0.76	3.4	2.6	0.42	0.00
31.66	14.0	0.14	0.97	65.2	6	114.6	1.85	1.74	0.11	0.76	5.4	4.1	0.97	0.09
31.99	16.2	0.33	2.02	41.2	5	114.6	1.87	1.75	0.12	0.76	7.7	5.8	1.14	0.10
[redacted]32	8.5	0.23	2.66	36.5	4	114.6	1.89	1.76	0.13	0.75	5.4	4.1	0.53	0.00
[redacted]64	6.0	0.08	1.26	46.3	5	114.6	1.91	1.77	0.14	0.75	2.9	2.1	0.32	0.00
32.97	6.0	0.09	1.43	73.9	5	114.6	1.93	1.78	0.15	0.75	2.9	2.1	0.32	0.00
33.30	23.0	0.26	1.11	52.7	6	114.6	1.94	1.79	0.16	0.75	8.8	6.6	1.68	0.14

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[redacted]ch (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
33.63	22.2	0.38	1.69	27.6	6	114.6	1.96	1.79	0.17	0.75	8.5	6.4	1.62	0.13
33.96	15.2	0.39	2.58	55.9	5	114.6	1.98	1.80	0.18	0.74	7.3	5.4	1.06	0.10
34.28	39.5	0.28	0.71	24.7	7	117.8	2.00	1.81	0.19	0.74	12.6	9.4	UnDef	0.11
34.61	23.7	0.23	0.95	11.9	6	114.6	2.02	1.82	0.20	0.74	9.1	6.7	1.73	0.14
34.94	21.8	0.36	1.65	37.6	6	114.6	2.04	1.83	0.21	0.74	8.4	6.2	1.58	0.13
35.27	54.6	1.10	2.02	22.1	7	117.8	2.06	1.84	0.22	0.74	17.4	12.9	UnDef	0.37
35.60	188.2	2.93	1.56	8.7	8	120.9	2.08	1.85	0.23	0.74	45.1	33.1	UnDef	0.00
35.92	346.4	6.54	1.89	-3.1	8	120.9	2.10	1.86	0.24	0.73	82.9	60.9	UnDef	0.00
36.25	403.1	10.79	2.68	-1.5	12	120.9	2.12	1.87	0.25	0.73	193.0	141.3	UnDef	0.00
36.58	332.8	7.67	2.31	-5.4	8	120.9	2.14	1.88	0.26	0.73	79.7	58.2	UnDef	0.00
36.91	383.1	3.92	1.02	1.6	9	124.1	2.16	1.89	0.27	0.73	73.4	53.4	UnDef	0.00
37.24	514.6	4.98	0.97	5.1	9	124.1	2.18	1.90	0.28	0.73	98.6	71.6	UnDef	0.00
37.57	503.3	8.69	1.73	1.7	8	120.9	2.20	1.91	0.29	0.72	120.5	87.3	UnDef	0.00
37.89	474.9	10.00	2.11	1.1	8	120.9	2.22	1.92	0.30	0.72	113.7	82.2	UnDef	0.00
38.22	463.8	9.40	2.03	0.9	8	120.9	2.24	1.93	0.31	0.72	111.1	80.0	UnDef	0.00
38.55	450.3	9.73	2.16	5.1	8	120.9	2.26	1.94	0.32	0.72	107.8	77.5	UnDef	0.00
38.88	414.6	8.99	2.17	2.6	8	120.9	2.28	1.94	0.33	0.72	99.3	71.2	UnDef	0.00
39.21	445.9	10.63	2.38	4.5	12	120.9	2.30	1.95	0.34	0.72	213.5	152.7	UnDef	0.00
39.53	433.7	12.75	2.94	6.2	12	120.9	2.32	1.96	0.35	0.71	207.7	148.2	UnDef	0.00
39.86	383.2	12.66	3.30	5.3	12	120.9	2.34	1.97	0.36	0.71	183.5	130.6	UnDef	0.00
40.19	316.5	7.69	2.43	0.9	7	117.8	2.36	1.98	0.37	0.71	101.0	71.7	UnDef	0.00
40.52	266.1	5.77	2.17	-3.4	8	120.9	2.38	1.99	0.38	0.71	63.7	45.1	UnDef	0.00
40.85	255.3	5.23	2.05	0.1	8	120.9	2.40	2.00	0.39	0.71	61.1	43.2	UnDef	0.00
41.17	254.1	3.09	1.22	2.1	9	124.1	2.42	2.01	0.40	0.71	48.7	34.3	UnDef	0.00
41.50	257.1	1.89	0.73	9.2	9	124.1	2.44	2.02	0.41	0.70	49.3	34.6	UnDef	0.00
41.83	257.3	1.84	0.71	10.1	9	124.1	2.46	2.03	0.42	0.70	49.3	34.6	UnDef	0.00
42.16	253.9	3.56	1.40	11.6	8	120.9	2.48	2.04	0.43	0.70	60.8	42.5	UnDef	0.00
[redacted]49	275.7	6.11	2.22	13.6	7	117.8	2.50	2.05	0.45	0.70	88.0	61.4	UnDef	0.00
[redacted]81	255.9	5.84	2.28	3.4	7	117.8	2.52	2.06	0.46	0.70	81.7	56.9	UnDef	0.00
43.14	249.3	6.45	2.59	2.0	7	117.8	2.54	2.07	0.47	0.70	79.6	55.3	UnDef	0.00
43.47	250.2	6.84	2.73	2.8	7	117.8	2.55	2.08	0.48	0.69	79.9	55.4	UnDef	0.00
43.80	240.0	6.53	2.72	1.8	7	117.8	2.57	2.09	0.49	0.69	76.6	53.0	UnDef	0.00
44.13	222.1	5.96	2.69	0.1	7	117.8	2.59	2.10	0.50	0.69	70.9	49.0	UnDef	0.00
44.45	206.4	5.81	2.81	-1.2	7	117.8	2.61	2.11	0.51	0.69	65.9	45.4	UnDef	0.00
44.78	194.1	5.88	3.03	-2.0	7	117.8	2.63	2.11	0.52	0.69	61.9	42.6	UnDef	0.00
45.11	183.1	5.58	3.05	-1.9	7	117.8	2.65	2.12	0.53	0.69	58.5	40.1	UnDef	0.00
45.44	160.6	4.62	2.88	3.9	7	117.8	2.67	2.13	0.54	0.68	51.3	35.1	UnDef	0.00
45.77	159.7	4.63	2.90	12.4	7	117.8	2.69	2.14	0.55	0.68	51.0	34.8	UnDef	0.00
46.10	163.0	4.70	2.88	10.8	7	117.8	2.71	2.15	0.56	0.68	52.0	35.5	UnDef	0.00
46.42	161.4	5.21	3.23	8.2	6	114.6	2.73	2.16	0.57	0.68	61.8	42.1	12.69	0.00
46.75	120.6	4.47	3.71	3.3	6	114.6	2.75	2.17	0.58	0.68	46.2	31.4	9.43	0.00
47.08	83.1	2.74	3.30	-0.5	6	114.6	2.77	2.18	0.59	0.68	31.8	21.6	6.43	0.00
47.41	70.3	1.64	2.33	1.9	6	114.6	2.78	2.19	0.60	0.68	26.9	18.2	5.40	0.00
47.74	78.4	1.40	1.79	7.3	7	117.8	2.80	2.19	0.61	0.68	25.0	16.9	UnDef	0.31
48.06	77.1	1.25	1.62	13.0	7	117.8	2.82	2.20	0.62	0.67	24.6	16.6	UnDef	0.26
48.39	100.3	1.85	1.84	23.3	7	117.8	2.84	2.21	0.63	0.67	32.0	21.5	UnDef	0.34
48.72	130.4	2.48	1.90	18.6	7	117.8	2.86	2.22	0.64	0.67	41.6	27.9	UnDef	0.43
49.05	124.3	2.47	1.98	13.1	7	117.8	2.88	2.23	0.65	0.67	39.7	26.6	UnDef	0.44
49.38	91.5	2.04	2.23	8.0	7	117.8	2.90	2.24	0.66	0.67	29.2	19.5	UnDef	0.00
49.70	71.7	1.68	2.34	14.3	6	114.6	2.92	2.25	0.67	0.67	27.5	18.3	5.50	0.00
50.03	64.0	1.21	1.89	21.3	7	117.8	2.94	2.26	0.68	0.67	20.4	13.6	UnDef	0.44
50.36	58.8	0.78	1.33	30.0	7	117.8	2.96	2.27	0.69	0.66	18.8	12.5	UnDef	0.23
50.69	28.4	0.31	1.08	28.9	7	117.8	2.98	2.28	0.70	0.66	9.1	6.0	UnDef	0.15
51.02	12.4	0.25	1.98	91.8	5	114.6	3.00	2.28	0.71	0.66	5.9	3.9	0.75	0.09
51.34	10.2	0.19	1.86	70.6	5	114.6	3.01	2.29	0.72	0.66	4.9	3.2	0.58	0.00
51.67	7.7	0.10	1.30	101.5	5	114.6	3.03	2.30	0.73	0.66	3.7	2.4	0.38	0.00
52.00	11.1	0.14	1.27	87.5	5	114.6	3.05	2.31	0.74	0.66	5.3	3.5	0.64	0.08
52.33	18.8	0.26	1.39	66.3	6	114.6	3.07	2.32	0.75	0.66	7.2	4.7	1.26	0.10
[redacted]66	16.6	0.30	1.81	91.8	6	114.6	3.09	2.33	0.76	0.66	6.4	4.2	1.08	0.09
[redacted].98	16.9	0.34	1.99	74.4	5	114.6	3.11	2.34	0.77	0.65	8.1	5.3	1.10	0.09
53.31	11.2	0.27	2.42	101.5	5	114.6	3.13	2.34	0.78	0.65	5.4	3.5	0.64	0.00
53.64	28.2	0.29	1.03	66.7	7	117.8	3.15	2.35	0.79	0.65	9.0	5.9	UnDef	0.15

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
53.97	29.9	0.17	0.55	25.6	7	117.8	3.17	2.36	0.80	0.65	9.5	6.2	UnDef	0.16
54.30	33.4	0.08	0.23	25.2	7	117.8	3.19	2.37	0.81	0.65	10.7	6.9	UnDef	0.00
54.63	31.1	0.08	0.26	25.6	7	117.8	3.20	2.38	0.82	0.65	9.9	6.4	UnDef	0.00
54.95	30.0	0.08	0.27	26.0	7	117.8	3.22	2.39	0.83	0.65	9.6	6.2	UnDef	0.00
55.28	30.0	0.12	0.40	26.1	7	117.8	3.24	2.40	0.84	0.65	9.6	6.2	UnDef	0.00
55.61	43.5	0.07	0.15	26.3	8	120.9	3.26	2.41	0.85	0.64	10.4	6.7	UnDef	0.00
55.94	40.6	0.10	0.23	26.6	8	120.9	3.28	2.42	0.86	0.64	9.7	6.3	UnDef	0.00
56.27	16.8	0.23	1.37	28.8	6	114.6	3.30	2.43	0.88	0.64	6.4	4.1	1.08	0.09
56.59	8.3	0.20	2.36	96.2	4	114.6	3.32	2.44	0.89	0.64	5.3	3.4	0.40	0.00
56.92	5.6	0.05	0.90	109.5	1	111.4	3.34	2.44	0.90	0.64	2.7	1.7	0.18	0.00
57.25	5.8	0.03	0.51	108.8	1	111.4	3.36	2.45	0.91	0.64	2.8	1.8	0.20	0.00
57.58	5.9	0.03	0.51	101.8	1	111.4	3.38	2.46	0.92	0.64	2.8	1.8	0.20	0.00
57.91	5.5	0.03	0.46	104.4	1	111.4	3.39	2.47	0.93	0.64	2.6	1.7	0.17	0.00
58.23	5.6	0.13	2.23	106.4	4	114.6	3.41	2.48	0.94	0.64	3.6	2.3	0.18	0.00
58.56	12.4	0.30	2.42	70.3	5	114.6	3.43	2.48	0.95	0.63	6.0	3.8	0.72	0.00
58.89	7.3	0.24	3.30	83.8	3	111.4	3.45	2.49	0.96	0.63	7.0	4.4	0.31	0.00
59.22	17.4	0.35	2.02	77.1	6	114.6	3.47	2.50	0.97	0.63	6.6	4.2	1.11	0.09
59.55	19.7	0.42	2.14	46.7	6	114.6	3.49	2.51	0.98	0.63	7.5	4.8	1.29	0.10
59.87	12.7	0.33	2.61	74.2	5	114.6	3.51	2.52	0.99	0.63	6.1	3.8	0.73	0.00
60.20	9.4	0.27	2.89	99.7	4	114.6	3.52	2.53	1.00	0.63	6.0	3.8	0.47	0.00
60.53	21.1	0.39	1.85	66.0	6	114.6	3.54	2.54	1.01	0.63	8.1	5.1	1.40	0.11
60.86	28.1	0.44	1.57	39.1	6	114.6	3.56	2.54	1.02	0.63	10.8	6.7	1.96	0.14
61.19	14.4	0.47	3.28	49.0	4	114.6	3.58	2.55	1.03	0.63	9.2	5.7	0.86	0.00
61.52	9.1	0.34	3.69	108.6	3	111.4	3.60	2.56	1.04	0.62	8.7	5.4	0.44	0.00
61.84	18.5	0.34	1.81	69.4	6	114.6	3.62	2.57	1.05	0.62	7.1	4.4	1.19	0.10
62.17	18.4	0.37	1.99	42.8	6	114.6	3.64	2.58	1.06	0.62	7.1	4.4	1.18	0.10
62.50	8.1	0.20	2.48	95.7	4	114.6	3.66	2.59	1.07	0.62	5.2	3.2	0.35	0.00
[redacted]83	8.3	0.07	0.85	107.4	5	114.6	3.67	2.59	1.08	0.62	4.0	2.5	0.37	0.00
[redacted]16	7.1	0.10	1.35	110.1	5	114.6	3.69	2.60	1.09	0.62	3.4	2.1	0.27	0.00
63.48	9.9	0.12	1.16	135.5	5	114.6	3.71	2.61	1.10	0.62	4.7	2.9	0.49	0.00
63.81	20.8	0.48	2.28	80.9	6	114.6	3.73	2.62	1.11	0.62	8.0	4.9	1.37	0.10
64.14	22.1	0.69	3.11	23.5	5	114.6	3.75	2.63	1.12	0.62	10.6	6.5	1.47	0.00
64.47	20.0	0.70	3.48	16.3	4	114.6	3.77	2.64	1.13	0.62	12.8	7.9	1.30	0.00
64.80	21.0	0.51	2.43	22.3	5	114.6	3.79	2.65	1.14	0.61	10.1	6.2	1.38	0.10
65.12	17.5	0.39	2.23	2.8	5	114.6	3.81	2.65	1.15	0.61	8.4	5.1	1.10	0.00
65.45	13.7	0.42	3.08	10.8	4	114.6	3.82	2.66	1.16	0.61	8.7	5.4	0.79	0.00
65.78	21.5	0.48	2.22	16.4	6	114.6	3.84	2.67	1.17	0.61	8.2	5.0	1.41	0.10
66.11	40.9	0.34	0.82	20.6	7	117.8	3.86	2.68	1.18	0.61	13.1	8.0	UnDef	0.25
66.44	56.8	0.38	0.66	24.6	8	120.9	3.88	2.69	1.19	0.61	13.6	8.3	UnDef	0.14
66.76	52.5	0.74	1.40	49.3	7	117.8	3.90	2.70	1.20	0.61	16.7	10.2	UnDef	0.43
67.09	52.1	0.76	1.45	52.2	7	117.8	3.92	2.71	1.21	0.61	16.6	10.1	UnDef	0.43
67.42	51.9	0.40	0.76	38.8	7	117.8	3.94	2.72	1.22	0.61	16.6	10.0	UnDef	0.16
67.75	44.4	0.40	0.90	41.5	7	117.8	3.96	2.73	1.23	0.61	14.2	8.6	UnDef	0.29
68.08	36.7	0.46	1.24	56.2	7	117.8	3.98	2.74	1.24	0.60	11.7	7.1	UnDef	0.20
68.40	42.7	0.50	1.16	55.4	7	117.8	4.00	2.74	1.25	0.60	13.6	8.2	UnDef	0.27
68.73	56.7	0.45	0.79	47.6	8	120.9	4.02	2.75	1.26	0.60	13.6	8.2	UnDef	0.16
69.06	64.5	0.39	0.61	45.7	8	120.9	4.04	2.76	1.27	0.60	15.4	9.3	UnDef	0.13
69.39	59.3	0.36	0.61	46.2	8	120.9	4.06	2.77	1.28	0.60	14.2	8.5	UnDef	0.13
69.72	55.0	0.38	0.69	44.3	8	120.9	4.08	2.78	1.29	0.60	13.2	7.9	UnDef	0.15
70.05	46.3	0.41	0.88	45.8	7	117.8	4.10	2.79	1.30	0.60	14.8	8.8	UnDef	0.29
70.37	37.0	0.29	0.77	52.4	7	117.8	4.12	2.80	1.32	0.60	11.8	7.1	UnDef	0.20
70.70	32.5	0.27	0.82	59.4	7	117.8	4.14	2.81	1.33	0.60	10.4	6.2	UnDef	0.16
71.03	25.4	0.25	0.97	76.0	6	114.6	4.15	2.82	1.34	0.60	9.7	5.8	1.70	0.12
71.36	26.7	0.34	1.28	85.2	6	114.6	4.17	2.83	1.35	0.59	10.2	6.1	1.80	0.12
71.69	29.1	0.45	1.55	76.3	6	114.6	4.19	2.84	1.36	0.59	11.1	6.6	1.99	0.14
72.01	34.9	0.55	1.58	71.3	6	114.6	4.21	2.84	1.37	0.59	13.4	7.9	2.45	0.18
72.34	32.1	0.58	1.79	68.1	6	114.6	4.23	2.85	1.38	0.59	12.3	7.3	2.23	0.15
72.67	32.0	0.58	1.82	72.6	6	114.6	4.25	2.86	1.39	0.59	12.3	7.2	2.22	0.15
[redacted]00	45.6	0.70	1.54	89.4	7	117.8	4.27	2.87	1.40	0.59	14.6	8.6	UnDef	0.29
[redacted]33	53.4	0.80	1.50	86.0	7	117.8	4.29	2.88	1.41	0.59	17.0	10.0	UnDef	0.42
73.65	54.6	0.90	1.64	105.3	7	117.8	4.31	2.89	1.42	0.59	17.4	10.2	UnDef	0.44
73.98	63.5	0.98	1.54	110.6	7	117.8	4.33	2.90	1.43	0.59	20.3	11.9	UnDef	0.00

oneTec Inc. - CPT Interpretation
nterpretation Output - Release 1.00.19M
un No: 04-0401-1123-5373
b No: 04-717
ent: MACTEC
roject: TVA Kingston
ite: CPT-1A
ocation: TVA Kingston
one: 20 TON AD142
PT Date: 04/23/03
PT Time: 15:11
PT File: 717CP01A.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 8.60 (ft): 28.2
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-04	0.00	1000.0	0.20	10	58.4	0.0	58.4	0.0	50	95.0	1.0	-0.25	0.0	19.5
0.49	5.0E-02	0.00	1000.0	0.60	10	247.0	0.0	247.0	0.0	50	95.0	1.0	-0.35	0.0	49.4
0.82	5.0E-02	0.00	1000.0	0.66	10	405.7	0.0	405.7	0.0	50	95.0	1.0	-0.36	0.0	81.1
1.15	5.0E-02	0.00	1000.0	1.20	9	573.0	0.0	573.0	1.3	50	95.0	1.0	-0.43	0.0	114.6
1.48	5.0E-03	0.00	1000.0	1.90	12	654.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.50	UnDef	UnDef
[illegible]80	5.0E-03	0.00	1000.0	2.30	12	658.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.55	UnDef	UnDef
[illegible]13	5.0E-03	0.00	1000.0	1.91	12	627.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.50	UnDef	UnDef
2.46	5.0E-03	0.00	1000.0	2.02	12	701.0	UnDef	UnDef	0.0	50	95.0	1.0	-0.52	UnDef	UnDef
2.79	5.0E-03	0.00	1000.0	2.28	12	624.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.54	UnDef	UnDef
3.12	5.0E-03	0.00	1000.0	1.66	12	515.8	UnDef	UnDef	0.0	50	95.0	1.0	-0.48	UnDef	UnDef
3.44	5.0E-02	0.00	1000.0	1.33	9	598.8	0.0	598.8	1.8	50	95.0	1.0	-0.44	0.0	119.8
3.77	5.0E-03	0.00	1000.0	1.43	12	662.0	UnDef	UnDef	0.0	50	95.0	1.0	-0.45	UnDef	UnDef
4.10	5.0E-03	0.00	1000.0	1.78	12	723.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.49	UnDef	UnDef
4.43	5.0E-04	0.00	1000.0	2.50	12	666.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
4.76	5.0E-03	0.00	981.8	1.77	12	516.8	UnDef	UnDef	0.0	50	95.0	1.0	-0.49	UnDef	UnDef
5.09	5.0E-03	0.00	1000.0	1.59	12	577.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.47	UnDef	UnDef
5.41	5.0E-04	0.00	1000.0	2.52	12	577.0	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
5.74	1.0E-15	0.00	906.1	2.98	12	523.4	UnDef	UnDef	0.0	50	95.0	1.0	-0.61	UnDef	UnDef
6.07	5.0E-04	0.00	609.4	2.81	12	362.0	UnDef	UnDef	0.0	50	95.0	1.0	-0.54	UnDef	UnDef
6.40	5.0E-03	0.00	465.5	1.58	9	283.9	0.0	283.9	4.9	48	95.0	1.0	-0.39	0.0	69.5
6.73	5.0E-03	0.00	501.6	1.72	9	313.7	1.2	314.8	5.1	48	95.0	1.0	-0.41	0.2	76.9
7.05	5.0E-04	0.00	599.1	2.22	12	383.4	UnDef	UnDef	0.0	50	95.0	1.0	-0.48	UnDef	UnDef
7.38	5.0E-04	0.00	658.6	2.61	12	430.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.53	UnDef	UnDef
7.79	1.0E-15	0.00	560.7	2.97	12	376.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.55	UnDef	UnDef
8.20	5.0E-04	0.00	446.0	3.11	12	307.7	UnDef	UnDef	0.0	48	95.0	1.0	-0.54	UnDef	UnDef
8.53	5.0E-05	0.00	333.1	3.32	12	234.3	UnDef	UnDef	0.0	48	91.7	10.0	-0.52	UnDef	UnDef
8.86	5.0E-05	0.00	235.9	3.62	12	169.2	UnDef	UnDef	0.0	46	82.3	10.0	-0.51	UnDef	UnDef
9.19	5.0E-05	0.00	171.7	3.07	12	125.5	UnDef	UnDef	0.0	44	73.8	10.0	-0.41	UnDef	UnDef
9.51	5.0E-04	0.00	148.3	2.34	7	110.3	37.0	147.4	14.4	44	70.1	1.0	-0.33	6.7	42.7
9.84	5.0E-03	0.00	223.4	1.66	9	168.6	18.3	187.0	8.7	46	82.3	1.0	-0.32	2.7	44.0
10.17	5.0E-03	0.00	275.6	1.72	9	211.3	16.8	228.1	7.8	46	88.7	1.0	-0.35	2.5	54.2
10.50	5.0E-04	0.00	353.0	2.12	9	274.8	24.9	299.8	8.1	48	95.0	1.0	-0.41	4.9	94.6
10.83	5.0E-04	0.00	379.8	2.27	12	300.1	UnDef	UnDef	0.0	48	95.0	1.0	-0.43	UnDef	UnDef
11.15	5.0E-04	0.00	397.5	2.36	12	318.8	UnDef	UnDef	0.0	48	95.0	1.0	-0.45	UnDef	UnDef
11.48	5.0E-04	0.00	367.7	2.26	12	299.1	UnDef	UnDef	0.0	48	95.0	1.0	-0.43	UnDef	UnDef
11.81	5.0E-04	0.00	338.8	2.57	12	279.5	UnDef	UnDef	0.0	48	95.0	1.0	-0.45	UnDef	UnDef
[illegible]14	1.0E-15	0.00	320.9	3.18	12	268.4	UnDef	UnDef	0.0	46	95.0	1.0	-0.50	UnDef	UnDef
[illegible]47	5.0E-05	0.00	246.2	3.18	12	208.9	UnDef	UnDef	0.0	46	88.4	10.0	-0.47	UnDef	UnDef
12.80	5.0E-05	0.00	196.2	3.18	12	168.7	UnDef	UnDef	0.0	46	82.3	10.0	-0.44	UnDef	UnDef

[redacted]h (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-05	0.03	11.3	1.85	6	16.2	65.0	81.2	48.3	30	30.0	3.9	-0.02	6.4	12.7
33.96	5.0E-06	0.12	7.3	2.96	4	11.1	44.2	55.3	66.0	UnDef	UnDef	2.1	UnDef	5.4	10.8
34.28	5.0E-04	0.02	20.7	0.75	7	28.7	41.2	69.9	27.1	34	31.5	1.0	-0.02	5.5	14.8
34.61	5.0E-05	0.01	11.9	1.04	6	17.2	68.6	85.8	40.2	30	30.0	4.2	0.01	6.7	13.4
34.94	5.0E-05	0.05	10.8	1.82	6	15.8	63.2	79.0	49.0	30	30.0	3.7	-0.01	6.2	12.4
35.27	5.0E-04	0.01	28.6	2.10	6	39.4	106.4	145.8	32.3	36	40.6	1.0	-0.13	10.8	23.7
35.60	5.0E-03	0.00	100.7	1.57	7	135.5	43.1	178.5	14.0	42	76.0	1.0	-0.23	5.9	39.0
35.92	5.0E-03	0.00	185.4	1.90	9	248.7	46.5	295.3	10.9	44	93.4	1.0	-0.32	6.7	67.5
36.25	1.0E-15	0.00	214.8	2.69	12	288.7	UnDef	UnDef	0.0	46	95.0	1.0	-0.40	UnDef	UnDef
36.58	5.0E-03	0.00	176.2	2.32	7	237.8	64.9	302.7	13.0	44	92.1	1.0	-0.35	9.0	67.2
36.91	5.0E-02	0.00	202.0	1.03	9	273.0	7.8	280.8	6.0	46	95.0	1.0	-0.26	0.9	54.4
37.24	5.0E-02	0.00	270.2	0.97	9	365.7	0.0	365.7	4.2	46	95.0	1.0	-0.28	0.0	71.6
37.57	5.0E-03	0.00	262.8	1.73	9	356.7	31.9	388.6	8.1	46	95.0	1.0	-0.35	4.7	92.0
37.89	5.0E-03	0.00	246.7	2.12	9	335.8	51.9	387.7	10.0	46	95.0	1.0	-0.37	7.5	89.7
38.22	5.0E-03	0.00	239.7	2.04	9	327.1	48.9	376.0	9.9	46	95.0	1.0	-0.36	7.1	87.1
38.55	5.0E-03	0.00	231.5	2.17	9	316.8	55.9	372.7	10.6	46	95.0	1.0	-0.37	8.0	85.5
38.88	5.0E-03	0.00	212.0	2.18	9	291.0	57.7	348.7	11.2	46	95.0	1.0	-0.36	8.2	79.4
39.21	1.0E-15	0.00	227.0	2.40	9	312.1	67.0	379.1	11.6	46	95.0	1.0	-0.39	19.0	171.7
39.53	1.0E-15	0.00	219.6	2.95	12	302.8	UnDef	UnDef	0.0	46	95.0	1.0	-0.43	UnDef	UnDef
39.86	1.0E-15	0.00	192.9	3.32	12	266.9	UnDef	UnDef	0.0	44	95.0	1.0	-0.45	UnDef	UnDef
40.19	5.0E-04	0.00	158.4	2.45	7	219.9	73.1	293.0	14.3	44	89.9	1.0	-0.35	13.3	85.0
40.52	5.0E-03	0.00	132.4	2.19	7	184.5	64.3	248.8	14.7	44	84.8	1.0	-0.31	8.7	53.8
40.85	5.0E-03	0.00	126.3	2.07	7	176.6	60.3	236.9	14.5	44	83.6	1.0	-0.29	8.2	51.4
41.17	5.0E-02	0.00	125.1	1.23	9	175.3	29.0	204.4	10.3	44	83.4	1.0	-0.23	3.3	37.7
41.50	5.0E-02	0.00	126.0	0.74	9	177.0	10.5	187.5	7.1	44	83.6	1.0	-0.18	1.3	35.9
41.83	5.0E-02	0.00	125.4	0.72	9	176.7	9.9	186.5	7.0	44	83.6	1.0	-0.18	1.2	35.8
42.16	5.0E-03	0.00	123.1	1.42	9	173.9	36.6	210.5	11.5	42	83.1	1.0	-0.24	5.2	47.7
[redacted]49	5.0E-04	0.00	133.2	2.24	7	188.3	67.2	255.6	14.9	44	85.4	1.0	-0.31	12.1	73.5
[redacted]81	5.0E-04	0.00	123.0	2.31	7	174.5	70.8	245.3	15.8	42	83.2	1.0	-0.31	12.5	69.5
43.14	5.0E-04	0.00	119.2	2.61	7	169.6	83.5	253.1	17.4	42	82.4	1.0	-0.33	14.4	69.7
43.47	5.0E-04	0.00	119.1	2.76	7	169.8	89.9	259.7	18.0	42	82.5	1.0	-0.34	15.3	70.7
43.80	5.0E-04	0.00	113.7	2.75	7	162.5	89.9	252.5	18.3	42	81.2	1.0	-0.33	15.2	68.2
44.13	5.0E-04	0.00	104.7	2.72	7	150.1	89.4	239.6	19.0	42	78.9	1.0	-0.32	14.9	63.9
44.45	5.0E-04	0.00	96.8	2.85	7	139.2	96.0	235.2	20.3	42	76.8	1.0	-0.32	15.6	61.0
44.78	5.0E-04	0.00	90.5	3.07	7	130.6	106.8	237.4	21.8	42	74.9	1.0	-0.33	16.7	59.3
45.11	5.0E-04	0.00	85.0	3.09	7	123.0	108.9	231.8	22.6	42	73.2	1.0	-0.32	16.7	56.8
45.44	5.0E-04	0.00	74.1	2.93	7	107.6	104.5	212.1	23.4	40	69.4	1.0	-0.29	15.6	50.8
45.77	5.0E-04	0.00	73.3	2.95	7	106.8	106.1	212.9	23.7	40	69.2	1.0	-0.29	15.8	50.6
46.10	5.0E-04	0.00	74.5	2.93	7	108.8	105.2	213.9	23.4	40	69.7	1.0	-0.29	15.8	51.2
46.42	5.0E-05	0.00	73.4	3.28	7	107.4	122.6	230.0	25.0	40	69.3	10.0	-0.32	21.0	63.1
46.75	5.0E-05	0.00	54.3	3.79	6	80.1	174.3	254.4	30.7	40	60.9	10.0	-0.32	23.5	54.9
47.08	5.0E-05	-0.01	36.9	3.41	6	55.1	212.9	268.0	34.8	38	50.2	10.0	-0.24	21.3	42.9
47.41	5.0E-05	-0.01	30.9	2.43	6	46.6	136.1	182.7	32.9	36	45.4	10.0	-0.16	15.9	34.1
47.74	5.0E-04	-0.01	34.5	1.86	7	51.8	82.9	134.7	28.1	36	48.4	1.0	-0.14	10.6	27.5
48.06	5.0E-04	0.00	33.7	1.69	7	50.8	74.9	125.8	27.3	36	47.9	1.0	-0.13	9.9	26.4
48.39	5.0E-04	0.00	44.0	1.90	7	66.0	74.8	140.7	24.9	38	55.4	1.0	-0.17	10.7	32.2
48.72	5.0E-04	0.00	57.4	1.94	7	85.6	69.7	155.4	21.8	40	62.8	1.0	-0.20	10.9	38.8
49.05	5.0E-04	0.00	54.4	2.03	7	81.4	74.9	156.3	22.9	40	61.4	1.0	-0.20	11.4	37.9
49.38	5.0E-04	0.00	39.6	2.30	7	59.9	101.5	161.3	28.6	38	52.6	1.0	-0.18	12.7	32.2
49.70	5.0E-05	0.00	30.6	2.44	6	46.8	141.8	188.6	33.2	36	45.5	10.0	-0.16	16.3	34.6
50.03	5.0E-04	0.00	27.0	1.98	6	41.7	115.4	157.1	32.5	36	42.2	1.0	-0.12	11.6	25.2
50.36	5.0E-04	0.00	24.6	1.40	7	38.2	77.9	116.1	30.1	34	39.7	1.0	-0.08	9.0	21.5
50.69	5.0E-04	0.01	11.2	1.20	6	18.4	73.8	92.2	43.1	30	30.0	1.0	0.01	6.0	12.0
51.02	5.0E-06	0.23	4.1	2.62	4	8.0	32.0	40.1	80.5	UnDef	UnDef	1.1	UnDef	3.9	7.8
51.34	5.0E-06	0.21	3.1	2.64	1	6.6	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
51.67	5.0E-06	0.52	2.0	2.14	4	5.0	19.9	24.9	100.0	UnDef	UnDef	0.6	UnDef	2.4	4.9
52.00	5.0E-06	0.25	3.5	1.75	4	7.1	28.5	35.7	78.9	UnDef	UnDef	0.9	UnDef	3.5	7.0
52.33	5.0E-05	0.08	6.8	1.66	4	12.1	48.3	60.3	58.9	30	30.0	1.9	0.05	4.7	9.4
[redacted]66	5.0E-05	0.16	5.8	2.22	4	10.7	42.6	53.3	67.4	30	30.0	1.6	0.06	4.2	8.3
52.98	5.0E-06	0.11	5.9	2.44	4	10.8	43.2	54.0	68.6	UnDef	UnDef	1.6	UnDef	5.3	10.6
53.31	5.0E-06	0.30	3.4	3.36	1	7.1	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
53.64	5.0E-04	0.05	10.6	1.16	6	18.0	71.9	89.8	43.8	30	30.0	1.0	0.02	5.9	11.7

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
74.31	5.0E-04	0.03	19.8	1.50	6	35.6	131.4	167.0	34.5	34	37.7	1.0	-0.06	11.3	22.9
74.64	5.0E-05	0.06	14.8	2.41	6	27.3	109.0	136.3	46.2	32	30.0	5.9	-0.07	10.7	21.3
74.97	5.0E-04	0.05	16.1	2.18	6	29.4	117.7	147.1	43.1	32	32.2	1.0	-0.07	9.6	19.2
75.29	5.0E-04	0.05	16.4	1.68	6	30.0	119.9	149.9	39.3	32	32.7	1.0	-0.05	9.8	19.6
75.62	5.0E-04	0.05	14.5	1.62	6	26.9	107.6	134.5	41.2	32	30.0	1.0	-0.03	8.8	17.5
75.95	5.0E-04	0.05	12.8	1.12	6	24.1	96.5	120.6	39.5	32	30.0	1.0	0.00	7.9	15.7
76.28	5.0E-05	0.15	5.6	0.76	6	11.9	47.7	59.6	54.4	30	30.0	1.5	0.12	4.7	9.3
76.61	5.0E-05	0.72	2.0	1.10	1	5.9	UnDef	UnDef	100.0	30	30.0	0.6	0.30	UnDef	UnDef
76.93	5.0E-04	0.16	7.0	0.79	6	14.4	57.7	72.1	49.0	30	30.0	1.0	0.09	4.7	9.4
77.26	5.0E-04	0.07	11.5	1.34	6	22.0	88.1	110.1	43.7	30	30.0	1.0	0.00	7.2	14.4
77.59	5.0E-05	0.05	11.9	2.21	6	22.7	90.8	113.6	49.6	30	30.0	4.2	-0.04	8.9	17.8
77.92	5.0E-05	0.02	14.5	2.32	6	27.1	108.4	135.5	46.1	32	30.0	5.7	-0.07	10.6	21.2
78.25	5.0E-05	0.02	10.1	2.62	4	19.8	79.2	99.0	55.8	30	30.0	3.3	-0.03	7.8	15.5
78.58	5.0E-06	0.19	4.7	3.26	1	10.6	UnDef	UnDef	100.0	UnDef	UnDef	1.3	UnDef	UnDef	UnDef
78.90	5.0E-05	0.07	9.1	2.19	4	18.2	72.6	90.8	55.5	30	30.0	2.9	0.00	7.1	14.2
79.23	5.0E-05	0.02	12.1	2.09	6	23.3	93.3	116.6	48.3	30	30.0	4.4	-0.04	9.1	18.3
79.56	5.0E-06	0.06	6.1	3.23	1	13.1	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
79.89	5.0E-08	0.66	1.9	6.56	1	5.8	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
80.22	5.0E-06	0.58	1.5	3.81	1	5.1	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
80.54	1.0E-07	1.26	1.0	0.68	1	4.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
80.87	5.0E-05	0.96	1.4	0.96	1	5.0	UnDef	UnDef	100.0	30	30.0	0.6	0.53	UnDef	UnDef
81.20	5.0E-06	0.70	1.9	3.61	1	5.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
81.53	5.0E-06	0.25	1.8	2.34	1	5.7	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
81.86	5.0E-06	0.72	1.5	2.64	1	5.2	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
82.18	5.0E-06	0.64	1.5	2.16	1	5.2	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
82.51	5.0E-06	0.94	1.1	2.72	1	4.6	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
82.84	5.0E-06	1.20	0.9	2.55	1	4.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
[illegible]17	5.0E-06	1.05	1.0	1.99	1	4.5	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
[illegible]50	5.0E-06	1.13	0.9	1.88	1	4.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
83.82	5.0E-05	0.73	1.6	1.18	1	5.5	UnDef	UnDef	100.0	30	30.0	0.6	0.32	UnDef	UnDef
84.15	5.0E-05	0.55	1.8	1.76	4	5.8	23.3	29.1	100.0	30	30.0	0.6	0.26	2.3	4.6
84.48	5.0E-05	0.41	2.7	1.73	4	7.5	29.9	37.4	86.7	30	30.0	0.8	0.18	2.9	5.9
84.81	5.0E-05	0.26	4.0	2.10	4	9.7	38.7	48.3	77.6	30	30.0	1.1	0.12	3.8	7.6
85.14	5.0E-05	0.29	4.2	2.18	4	10.1	40.6	50.7	76.3	30	30.0	1.1	0.11	4.0	7.9
85.46	5.0E-05	0.37	4.0	2.04	4	9.7	38.8	48.6	77.1	30	30.0	1.1	0.13	3.8	7.6
85.79	5.0E-05	0.38	4.0	1.74	4	9.7	38.7	48.4	74.7	30	30.0	1.1	0.14	3.8	7.6
86.12	5.0E-05	0.52	3.4	1.57	4	8.7	34.7	43.4	78.0	30	30.0	0.9	0.19	3.4	6.8
86.45	5.0E-05	0.66	3.2	1.34	4	8.4	33.8	42.2	77.1	30	30.0	0.9	0.23	3.3	6.6
86.78	5.0E-05	0.49	3.8	1.09	4	9.5	38.1	47.6	68.9	30	30.0	1.0	0.18	3.7	7.5
87.11	5.0E-05	0.44	3.8	0.85	4	9.5	38.0	47.5	66.0	30	30.0	1.0	0.18	3.7	7.4
87.43	5.0E-05	0.64	3.1	0.99	4	8.3	33.1	41.4	74.0	30	30.0	0.9	0.24	3.2	6.5
87.76	5.0E-05	0.69	3.1	1.10	4	8.2	32.8	41.0	76.0	30	30.0	0.8	0.25	3.2	6.4
88.09	5.0E-05	0.56	3.5	1.09	4	9.0	36.0	45.1	71.6	30	30.0	0.9	0.20	3.5	7.1
88.42	5.0E-05	0.45	4.2	0.84	4	10.2	40.8	51.0	63.3	30	30.0	1.1	0.18	4.0	8.0
88.75	5.0E-05	0.23	4.4	0.95	4	10.5	42.1	52.6	63.6	30	30.0	1.2	0.14	4.1	8.2
89.07	5.0E-05	0.41	4.1	1.24	4	10.0	40.0	50.0	69.1	30	30.0	1.1	0.16	3.9	7.8
89.40	5.0E-05	0.20	6.2	2.81	4	13.7	55.0	68.7	69.8	30	30.0	1.7	0.05	5.4	10.8
89.73	5.0E-06	0.03	8.7	4.10	1	18.2	UnDef	UnDef	100.0	UnDef	UnDef	2.7	UnDef	UnDef	UnDef
90.06	5.0E-05	0.00	11.6	3.05	4	23.5	94.0	117.5	55.1	30	30.0	4.1	-0.07	9.2	18.4
90.39	5.0E-04	-0.02	12.1	1.29	6	24.4	97.7	122.1	42.3	30	30.0	1.0	-0.01	8.0	15.9
90.71	5.0E-05	0.01	5.9	2.58	4	13.5	53.8	67.3	69.3	30	30.0	1.6	0.03	5.3	10.5
91.04	5.0E-04	0.00	14.5	1.76	6	28.9	115.5	144.4	42.3	32	31.7	1.0	-0.05	9.4	18.8
91.37	5.0E-05	-0.09	5.4	1.37	4	12.4	49.8	62.2	62.5	30	30.0	1.4	0.06	4.9	9.7
91.70	5.0E-06	-0.02	2.1	2.68	1	6.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
92.03	5.0E-06	0.22	2.1	2.59	1	6.7	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
92.35	5.0E-05	0.27	3.0	1.70	4	8.2	32.8	41.1	83.5	30	30.0	0.8	0.15	3.2	6.4
92.68	5.0E-05	0.28	3.3	1.53	4	8.8	35.2	44.0	78.6	30	30.0	0.9	0.15	3.4	6.9
93.01	5.0E-03	0.04	11.9	0.45	7	24.3	0.0	24.3	5.0	30	30.0	1.0	0.07	0.0	5.9
[illegible]34	5.0E-04	0.01	10.2	0.87	6	21.3	85.0	106.3	41.6	30	30.0	1.0	0.04	6.9	13.9
[illegible].67	5.0E-05	0.13	3.7	1.88	4	9.5	38.1	47.6	78.4	30	30.0	1.0	0.11	3.7	7.5
93.99	5.0E-06	0.41	2.2	2.75	1	6.9	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
94.32	5.0E-04	0.07	9.5	0.98	6	20.2	80.6	100.8	44.3	30	30.0	1.0	0.04	6.6	13.2

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
[redacted] No: 04-0401-1123-5439
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-6
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/23/03
CPT Time: 17:20
CPT File: 717CP006.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 11.23 (ft): 36.8
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.16	70.3	0.25	0.36	-0.1	8	120.9	0.01	0.01	0.00	2.00	16.8	33.7	UnDef	0.31
0.49	132.9	0.90	0.68	-1.4	9	124.1	0.03	0.03	0.00	2.00	25.4	50.9	UnDef	0.00
0.82	166.5	2.27	1.36	-10.2	8	120.9	0.05	0.05	0.00	2.00	39.9	79.7	UnDef	0.00
1.15	193.7	3.71	1.92	-13.0	8	120.9	0.07	0.07	0.00	2.00	46.4	92.7	UnDef	0.00
[redacted]48	187.2	4.50	2.40	-13.2	7	117.8	0.09	0.09	0.00	2.00	59.7	119.5	UnDef	0.00
[redacted]80	173.2	4.05	2.34	-14.1	7	117.8	0.11	0.11	0.00	2.00	55.3	110.6	UnDef	0.00
2.13	158.6	3.60	2.27	-11.7	7	117.8	0.13	0.13	0.00	2.00	50.6	101.2	UnDef	0.00
2.46	126.8	2.92	2.30	-15.1	7	117.8	0.15	0.15	0.00	2.00	40.5	81.0	UnDef	0.00
2.79	93.7	2.38	2.54	-8.9	7	117.8	0.17	0.17	0.00	2.00	29.9	59.8	UnDef	0.00
3.12	67.6	1.54	2.28	-5.3	6	114.6	0.19	0.19	0.00	2.00	25.9	51.8	5.39	0.00
3.44	71.7	1.25	1.75	-6.6	7	117.8	0.20	0.20	0.00	2.00	22.9	45.8	UnDef	0.36
3.77	70.4	1.64	2.33	-11.3	6	114.6	0.22	0.22	0.00	2.00	27.0	54.0	5.62	0.00
4.10	54.0	1.20	2.22	-13.6	6	114.6	0.24	0.24	0.00	2.00	20.7	41.4	4.30	0.26
4.43	51.9	0.82	1.58	-11.8	7	117.8	0.26	0.26	0.00	1.95	16.6	32.4	UnDef	0.21
4.76	50.2	0.70	1.39	-11.2	7	117.8	0.28	0.28	0.00	1.89	16.0	30.2	UnDef	0.18
5.09	45.6	0.52	1.14	-13.9	7	117.8	0.30	0.30	0.00	1.82	14.6	26.6	UnDef	0.15
5.41	28.5	0.46	1.60	-7.3	6	114.6	0.32	0.32	0.00	1.77	10.9	19.3	2.26	0.11
5.74	44.5	0.44	0.98	-1.2	7	117.8	0.34	0.34	0.00	1.72	14.2	24.4	UnDef	0.13
6.07	70.5	0.44	0.62	0.5	8	120.9	0.36	0.36	0.00	1.67	16.9	28.2	UnDef	0.22
6.40	71.8	0.50	0.69	0.5	8	120.9	0.38	0.38	0.00	1.63	17.2	28.0	UnDef	0.22
6.73	67.6	0.81	1.20	0.4	7	117.8	0.40	0.40	0.00	1.59	21.6	34.2	UnDef	0.22
7.05	66.9	1.23	1.84	0.0	7	117.8	0.42	0.42	0.00	1.55	21.3	33.1	UnDef	0.26
7.38	60.2	1.55	2.57	0.1	6	114.6	0.44	0.44	0.00	1.51	23.1	34.9	4.78	0.27
7.79	45.9	1.40	3.06	-0.4	6	114.6	0.46	0.46	0.00	1.48	17.6	26.0	3.64	0.22
8.20	34.3	1.05	3.06	0.1	5	114.6	0.48	0.48	0.00	1.44	16.4	23.6	2.70	0.18
8.53	29.4	0.80	2.71	0.0	5	114.6	0.50	0.50	0.00	1.41	14.1	19.9	2.31	0.15
8.86	27.7	0.63	2.26	0.1	6	114.6	0.52	0.52	0.00	1.39	10.6	14.7	2.17	0.13
9.19	27.4	0.56	2.03	0.0	6	114.6	0.54	0.54	0.00	1.36	10.5	14.3	2.15	0.12
9.51	31.0	0.68	2.18	0.0	6	114.6	0.56	0.56	0.00	1.34	11.9	15.9	2.44	0.13
9.84	30.2	0.66	2.19	0.1	6	114.6	0.58	0.58	0.00	1.32	11.6	15.2	2.37	0.13
10.17	30.4	0.57	1.86	0.1	6	114.6	0.60	0.60	0.00	1.30	11.7	15.1	2.39	0.12
10.50	32.2	0.61	1.89	-0.4	6	114.6	0.61	0.61	0.00	1.28	12.3	15.7	2.52	0.12
10.83	38.7	0.73	1.88	-1.8	6	114.6	0.63	0.63	0.00	1.26	14.8	18.6	3.05	0.13
11.15	50.5	1.01	1.99	0.0	7	117.8	0.65	0.65	0.00	1.24	16.1	20.0	UnDef	0.17
11.48	57.5	1.45	2.53	-2.3	6	114.6	0.67	0.67	0.00	1.22	22.0	26.9	4.54	0.23
[redacted]81	54.7	1.41	2.58	-2.3	6	114.6	0.69	0.69	0.00	1.20	21.0	25.2	4.32	0.22
[redacted].14	50.7	1.29	2.54	-1.9	6	114.6	0.71	0.71	0.00	1.19	19.4	23.1	4.00	0.21
12.47	43.2	1.13	2.62	-2.2	6	114.6	0.73	0.73	0.00	1.17	16.6	19.4	3.40	0.20
12.80	37.8	0.89	2.35	-6.3	6	114.6	0.75	0.75	0.00	1.16	14.5	16.8	2.96	0.17

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5439
CPT File: 717CP006.COR

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
13.12	31.5	0.71	2.24	-5.5	6	114.6	0.77	0.77	0.00	1.14	12.1	13.8	2.46	0.16
13.45	29.6	0.56	1.88	-4.0	6	114.6	0.78	0.78	0.00	1.13	11.3	12.8	2.31	0.13
13.78	23.8	0.49	2.06	-1.3	6	114.6	0.80	0.80	0.00	1.12	9.1	10.2	1.84	0.17
14.11	23.6	0.37	1.57	2.5	6	114.6	0.82	0.82	0.00	1.10	9.1	10.0	1.83	0.12
14.44	24.6	0.37	1.49	3.9	6	114.6	0.84	0.84	0.00	1.09	9.4	10.3	1.90	0.12
14.76	24.9	0.40	1.61	4.3	6	114.6	0.86	0.86	0.00	1.08	9.6	10.3	1.93	0.13
15.09	24.1	0.41	1.70	4.4	6	114.6	0.88	0.88	0.00	1.07	9.2	9.9	1.86	0.14
15.42	20.4	0.40	1.94	5.8	6	114.6	0.90	0.90	0.00	1.06	7.8	8.3	1.56	0.19
15.75	23.6	0.34	1.42	0.7	6	114.6	0.92	0.92	0.00	1.05	9.1	9.5	1.82	0.12
16.08	23.3	0.35	1.48	2.9	6	114.6	0.93	0.93	0.00	1.03	8.9	9.2	1.79	0.13
16.40	22.5	0.37	1.65	4.4	6	114.6	0.95	0.95	0.00	1.02	8.6	8.8	1.72	0.17
16.73	24.2	0.48	1.97	4.2	6	114.6	0.97	0.97	0.00	1.01	9.3	9.4	1.86	0.24
17.06	23.9	0.48	1.99	0.3	6	114.6	0.99	0.99	0.00	1.00	9.2	9.2	1.83	0.23
17.39	18.5	0.24	1.27	8.1	6	114.6	1.01	1.01	0.00	1.00	7.1	7.1	1.40	0.15
17.72	19.6	0.26	1.30	22.1	6	114.6	1.03	1.03	0.00	0.99	7.5	7.4	1.48	0.16
18.04	20.8	0.24	1.16	16.0	6	114.6	1.05	1.05	0.00	0.98	8.0	7.8	1.58	0.13
18.37	17.0	0.18	1.03	18.6	6	114.6	1.07	1.07	0.00	0.97	6.5	6.3	1.27	0.13
18.70	15.8	0.30	1.87	27.9	5	114.6	1.08	1.08	0.00	0.96	7.6	7.3	1.18	0.12
19.03	17.4	0.24	1.39	1.9	6	114.6	1.10	1.10	0.00	0.95	6.6	6.3	1.30	0.13
19.36	15.2	0.16	1.02	10.2	6	114.6	1.12	1.12	0.00	0.94	5.8	5.5	1.12	0.11
19.68	18.5	0.19	1.03	10.6	6	114.6	1.14	1.14	0.00	0.94	7.1	6.6	1.39	0.14
20.01	29.6	0.49	1.64	10.5	6	114.6	1.16	1.16	0.00	0.93	11.3	10.5	2.27	0.17
20.34	56.3	1.06	1.89	4.8	7	117.8	1.18	1.18	0.00	0.92	18.0	16.6	UnDef	0.19
20.67	57.2	1.49	2.61	1.1	6	114.6	1.20	1.20	0.00	0.91	21.9	20.0	4.48	0.30
21.00	52.1	1.54	2.95	-1.4	6	114.6	1.22	1.22	0.00	0.91	20.0	18.1	4.07	0.42
21.33	44.0	1.26	2.86	-2.0	6	114.6	1.24	1.24	0.00	0.90	16.9	15.2	3.42	0.00
21.65	33.7	0.91	2.69	-1.7	6	114.6	1.25	1.25	0.00	0.89	12.9	11.5	2.59	0.38
[illegible]98	21.2	0.45	2.10	0.3	6	114.6	1.27	1.27	0.00	0.89	8.1	7.2	1.60	0.15
[illegible]31	21.5	0.33	1.52	0.5	6	114.6	1.29	1.29	0.00	0.88	8.2	7.2	1.62	0.15
22.64	25.6	0.33	1.29	-2.7	6	114.6	1.31	1.31	0.00	0.87	9.8	8.6	1.94	0.19
22.97	36.2	0.70	1.94	-2.0	6	114.6	1.33	1.33	0.00	0.87	13.9	12.0	2.79	0.26
23.29	40.2	0.92	2.29	-6.7	6	114.6	1.35	1.35	0.00	0.86	15.4	13.3	3.11	0.37
23.62	90.5	1.16	1.28	-1.7	8	120.9	1.37	1.37	0.00	0.86	21.7	18.5	UnDef	0.20
23.95	193.1	2.13	1.10	-0.1	9	124.1	1.39	1.39	0.00	0.85	37.0	31.4	UnDef	0.00
24.28	225.9	4.03	1.79	-0.3	8	120.9	1.41	1.41	0.00	0.84	54.1	45.6	UnDef	0.00
24.61	200.2	4.86	2.43	-0.9	7	117.8	1.43	1.43	0.00	0.84	63.9	53.5	UnDef	0.00
24.93	222.1	6.12	2.76	0.5	7	117.8	1.45	1.45	0.00	0.83	70.9	58.9	UnDef	0.00
25.26	206.3	6.64	3.22	1.5	7	117.8	1.47	1.47	0.00	0.83	65.9	54.4	UnDef	0.00
25.59	166.7	5.42	3.25	-4.4	6	114.6	1.49	1.49	0.00	0.82	63.8	52.4	13.22	0.00
25.92	159.0	4.73	2.97	-3.7	7	117.8	1.50	1.50	0.00	0.82	50.8	41.4	UnDef	0.00
26.25	146.9	4.55	3.10	-3.7	6	114.6	1.52	1.52	0.00	0.81	56.3	45.6	11.63	0.00
26.57	101.5	4.18	4.12	-3.1	5	114.6	1.54	1.54	0.00	0.81	48.6	39.1	8.00	0.00
26.90	85.2	3.05	3.58	-1.8	6	114.6	1.56	1.56	0.00	0.80	32.7	26.1	6.69	0.00
27.23	71.1	2.22	3.12	-1.2	6	114.6	1.58	1.58	0.00	0.80	27.2	21.7	5.56	0.00
27.56	53.2	1.44	2.72	4.0	6	114.6	1.60	1.60	0.00	0.79	20.4	16.1	4.13	0.00
27.89	41.9	0.85	2.02	20.6	6	114.6	1.62	1.62	0.00	0.79	16.0	12.6	3.22	0.42
28.21	41.1	0.58	1.42	37.0	7	117.8	1.64	1.64	0.00	0.78	13.1	10.2	UnDef	0.18
28.54	27.6	0.83	3.01	45.7	5	114.6	1.66	1.66	0.00	0.78	13.2	10.3	2.08	0.19
28.87	23.4	0.78	3.32	4.8	5	114.6	1.67	1.67	0.00	0.77	11.2	8.7	1.74	0.14
29.20	25.4	0.79	3.10	17.1	5	114.6	1.69	1.69	0.00	0.77	12.2	9.4	1.90	0.16
29.53	27.7	0.81	2.91	23.7	5	114.6	1.71	1.71	0.00	0.76	13.3	10.2	2.08	0.18
29.86	28.6	0.75	2.61	21.9	6	114.6	1.73	1.73	0.00	0.76	10.9	8.3	2.15	0.19
30.18	30.8	0.76	2.47	21.8	6	114.6	1.75	1.75	0.00	0.76	11.8	8.9	2.33	0.22
30.59	17.1	0.50	2.93	14.4	5	114.6	1.77	1.77	0.00	0.75	8.2	6.1	1.22	0.00
31.00	5.5	0.11	1.91	46.7	4	114.6	1.80	1.80	0.00	0.75	3.5	2.6	0.30	0.00
31.33	5.0	0.01	0.20	73.6	1	111.4	1.82	1.82	0.00	0.74	2.4	1.8	0.25	0.00
31.66	4.2	0.07	1.66	73.3	1	111.4	1.83	1.83	0.00	0.74	2.0	1.5	0.19	0.00
31.99	6.3	0.11	1.68	40.2	4	114.6	1.85	1.85	0.00	0.73	4.0	2.9	0.35	0.00
[illegible]32	4.3	0.08	1.85	26.3	4	114.6	1.87	1.87	0.00	0.73	2.8	2.0	0.20	0.00
[illegible].64	12.2	0.30	2.42	53.0	5	114.6	1.89	1.89	0.00	0.73	5.9	4.3	0.83	0.09
32.97	11.9	0.34	2.86	38.2	5	114.6	1.91	1.91	0.00	0.72	5.7	4.1	0.80	0.00
33.30	5.0	0.14	2.83	71.1	3	111.4	1.93	1.93	0.00	0.72	4.8	3.4	0.24	0.00

ConeTec Inc. - CPT Interpretation
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CPT File: 717CP006.COR

[redacted]ch (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
33.63	8.2	0.17	2.09	71.9	5	114.6	1.95	1.95	0.00	0.72	3.9	2.8	0.50	0.00
33.96	14.2	0.48	3.38	42.3	4	114.6	1.96	1.96	0.00	0.71	9.1	6.5	0.98	0.00
34.28	22.8	0.51	2.22	31.6	6	114.6	1.98	1.98	0.00	0.71	8.7	6.2	1.66	0.13
34.61	12.0	0.39	3.23	37.8	4	114.6	2.00	2.00	0.00	0.71	7.6	5.4	0.80	0.00
34.94	7.9	0.33	4.17	69.0	3	111.4	2.02	2.02	0.00	0.70	7.6	5.3	0.47	0.00
35.27	13.7	0.45	3.28	50.5	4	114.6	2.04	2.04	0.00	0.70	8.8	6.1	0.94	0.00
35.60	28.7	0.54	1.89	14.5	6	114.6	2.06	2.06	0.00	0.70	11.0	7.7	2.13	0.17
35.92	17.2	0.45	2.59	18.2	5	114.6	2.08	2.08	0.00	0.69	8.3	5.7	1.21	0.10
36.25	5.1	0.21	4.12	48.7	3	111.4	2.09	2.09	0.00	0.69	4.9	3.4	0.24	0.00
36.58	4.0	0.04	1.01	87.0	1	111.4	2.11	2.11	0.00	0.69	1.9	1.3	0.15	0.00
36.91	4.1	0.02	0.49	88.3	1	111.4	2.13	2.13	0.00	0.69	1.9	1.3	0.15	0.00
37.24	5.2	0.02	0.39	77.3	1	111.4	2.15	2.14	0.01	0.68	2.5	1.7	0.24	0.00
37.57	4.4	0.03	0.57	83.3	1	111.4	2.17	2.15	0.02	0.68	2.1	1.4	0.18	0.00
37.89	4.9	0.03	0.61	84.3	1	111.4	2.19	2.15	0.03	0.68	2.4	1.6	0.22	0.00
38.22	9.7	0.26	2.62	75.0	4	114.6	2.20	2.16	0.04	0.68	6.2	4.2	0.60	0.00
38.55	14.5	0.35	2.39	32.6	5	114.6	2.22	2.17	0.05	0.68	6.9	4.7	0.98	0.09
38.88	8.1	0.17	2.10	43.5	5	114.6	2.24	2.18	0.06	0.68	3.9	2.6	0.47	0.00
39.21	5.9	0.04	0.68	81.8	1	111.4	2.26	2.19	0.07	0.68	2.8	1.9	0.29	0.00
39.53	4.7	0.04	0.86	88.5	1	111.4	2.28	2.20	0.08	0.67	2.2	1.5	0.19	0.00
39.86	11.1	0.05	0.45	77.1	6	114.6	2.30	2.20	0.09	0.67	4.2	2.9	0.70	0.00
40.19	16.6	0.16	0.94	71.7	6	114.6	2.32	2.21	0.10	0.67	6.4	4.3	1.14	0.10
40.52	43.8	0.54	1.22	67.6	7	117.8	2.34	2.22	0.11	0.67	14.0	9.4	UnDef	0.27
40.85	95.2	0.80	0.84	22.7	8	120.9	2.36	2.23	0.12	0.67	22.8	15.3	UnDef	0.16
41.17	99.6	1.23	1.24	8.6	8	120.9	2.38	2.24	0.13	0.67	23.8	15.9	UnDef	0.22
41.50	94.8	1.65	1.74	26.5	7	117.8	2.39	2.25	0.15	0.67	30.3	20.2	UnDef	0.30
41.83	100.5	1.81	1.80	19.0	7	117.8	2.41	2.26	0.16	0.67	32.1	21.3	UnDef	0.33
42.16	100.1	1.88	1.88	10.3	7	117.8	2.43	2.27	0.17	0.66	31.9	21.2	UnDef	0.35
[redacted]49	89.2	1.79	2.01	13.8	7	117.8	2.45	2.28	0.18	0.66	28.5	18.9	UnDef	0.38
[redacted]81	94.6	1.57	1.66	15.8	7	117.8	2.47	2.29	0.19	0.66	30.2	20.0	UnDef	0.29
43.14	86.7	1.55	1.79	6.8	7	117.8	2.49	2.29	0.20	0.66	27.7	18.3	UnDef	0.32
43.47	78.6	1.65	2.10	13.0	7	117.8	2.51	2.30	0.21	0.66	25.1	16.5	UnDef	0.45
43.80	90.4	1.71	1.90	22.8	7	117.8	2.53	2.31	0.22	0.66	28.9	19.0	UnDef	0.35
44.13	108.8	2.01	1.85	19.0	7	117.8	2.55	2.32	0.23	0.66	34.7	22.8	UnDef	0.36
44.45	120.5	2.39	1.98	-0.3	7	117.8	2.57	2.33	0.24	0.66	38.5	25.2	UnDef	0.43
44.78	115.5	2.06	1.78	-9.9	7	117.8	2.59	2.34	0.25	0.65	36.9	24.1	UnDef	0.36
45.11	103.9	1.69	1.63	-3.2	7	117.8	2.61	2.35	0.26	0.65	33.2	21.6	UnDef	0.30
45.44	91.2	1.39	1.52	5.3	7	117.8	2.63	2.36	0.27	0.65	29.1	19.0	UnDef	0.26
45.77	79.4	0.91	1.14	1.1	8	120.9	2.65	2.37	0.28	0.65	19.0	12.4	UnDef	0.19
46.10	61.6	0.66	1.07	8.2	7	117.8	2.67	2.38	0.29	0.65	19.7	12.7	UnDef	0.17
46.42	52.7	0.52	0.99	23.7	7	117.8	2.68	2.39	0.30	0.65	16.8	10.9	UnDef	0.17
46.75	48.9	0.61	1.25	40.3	7	117.8	2.70	2.40	0.31	0.65	15.6	10.1	UnDef	0.29
47.08	41.2	0.37	0.89	33.8	7	117.8	2.72	2.40	0.32	0.64	13.2	8.5	UnDef	0.20
47.41	16.3	0.12	0.71	75.6	6	114.6	2.74	2.41	0.33	0.64	6.3	4.0	1.09	0.09
47.74	11.0	0.03	0.23	103.9	6	114.6	2.76	2.42	0.34	0.64	4.2	2.7	0.66	0.00
48.06	8.5	0.04	0.47	95.8	6	114.6	2.78	2.43	0.35	0.64	3.2	2.1	0.45	0.00
48.39	6.2	0.04	0.64	81.0	1	111.4	2.80	2.44	0.36	0.64	3.0	1.9	0.27	0.00
48.72	5.2	0.02	0.29	96.3	1	111.4	2.82	2.45	0.37	0.64	2.5	1.6	0.19	0.00
49.05	7.5	0.17	2.20	109.0	4	114.6	2.84	2.45	0.38	0.64	4.8	3.1	0.37	0.00
49.38	87.5	1.19	1.36	42.2	8	120.9	2.85	2.46	0.39	0.64	21.0	13.4	UnDef	0.23
49.70	171.9	3.06	1.78	5.1	8	120.9	2.87	2.47	0.40	0.64	41.1	26.2	UnDef	0.00
50.03	155.2	4.16	2.68	-6.0	7	117.8	2.89	2.48	0.41	0.63	49.5	31.4	UnDef	0.00
50.36	129.3	3.89	3.01	6.8	6	114.6	2.91	2.49	0.42	0.63	49.5	31.4	10.11	0.00
50.69	127.0	3.05	2.40	18.9	7	117.8	2.93	2.50	0.43	0.63	40.5	25.6	UnDef	0.00
51.02	154.9	3.31	2.14	18.6	7	117.8	2.95	2.51	0.44	0.63	49.4	31.2	UnDef	0.00
51.34	145.2	3.41	2.35	-1.4	7	117.8	2.97	2.52	0.45	0.63	46.4	29.2	UnDef	0.00
51.67	102.0	2.97	2.91	-1.0	6	114.6	2.99	2.53	0.46	0.63	39.1	24.6	7.92	0.00
52.00	80.3	2.66	3.31	20.7	6	114.6	3.01	2.54	0.47	0.63	30.8	19.3	6.18	0.00
52.33	64.1	2.01	3.14	27.3	6	114.6	3.03	2.54	0.48	0.63	24.5	15.4	4.88	0.00
[redacted]66	52.4	1.60	3.06	54.6	6	114.6	3.05	2.55	0.49	0.63	20.1	12.6	3.95	0.00
[redacted].98	66.1	2.11	3.19	53.6	6	114.6	3.07	2.56	0.50	0.62	25.3	15.8	5.05	0.00
53.31	79.4	1.94	2.45	24.1	6	114.6	3.08	2.57	0.51	0.62	30.4	19.0	6.10	0.00
53.64	104.0	1.76	1.69	17.0	7	117.8	3.10	2.58	0.52	0.62	33.2	20.7	UnDef	0.34

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
53.97	102.0	1.54	1.51	16.6	8	120.9	3.12	2.59	0.53	0.62	24.4	15.2	UnDef	0.29
54.30	87.0	0.82	0.94	16.7	8	120.9	3.14	2.60	0.54	0.62	20.8	12.9	UnDef	0.17
54.63	59.8	0.57	0.95	17.2	7	117.8	3.16	2.61	0.55	0.62	19.1	11.8	UnDef	0.17
54.95	52.1	0.62	1.18	17.7	7	117.8	3.18	2.62	0.56	0.62	16.6	10.3	UnDef	0.30
55.28	35.5	0.78	2.20	83.1	6	114.6	3.20	2.63	0.58	0.62	13.6	8.4	2.59	0.19
55.61	33.5	0.84	2.50	124.3	6	114.6	3.22	2.63	0.59	0.62	12.8	7.9	2.42	0.18
55.94	45.2	1.14	2.52	79.8	6	114.6	3.24	2.64	0.60	0.62	17.3	10.6	3.36	0.31
56.27	44.6	1.22	2.74	39.6	6	114.6	3.26	2.65	0.61	0.61	17.1	10.5	3.31	0.30
56.59	46.4	1.26	2.71	40.9	6	114.6	3.28	2.66	0.62	0.61	17.8	10.9	3.45	0.33
56.92	62.5	0.84	1.34	20.9	7	117.8	3.29	2.67	0.63	0.61	20.0	12.2	UnDef	0.30
57.25	54.5	0.34	0.62	19.1	8	120.9	3.31	2.68	0.64	0.61	13.1	8.0	UnDef	0.13
57.58	39.9	0.10	0.24	19.7	8	120.9	3.33	2.69	0.65	0.61	9.5	5.8	UnDef	0.00
57.91	30.8	0.05	0.16	19.7	7	117.8	3.35	2.70	0.66	0.61	9.8	6.0	UnDef	0.00
58.23	33.0	0.30	0.91	20.2	7	117.8	3.37	2.71	0.67	0.61	10.5	6.4	UnDef	0.17
58.56	16.6	0.30	1.78	77.3	6	114.6	3.39	2.71	0.68	0.61	6.4	3.9	1.06	0.09
58.89	15.9	0.32	1.98	126.1	5	114.6	3.41	2.72	0.69	0.61	7.6	4.6	1.00	0.09
59.22	13.4	0.40	2.95	105.5	5	114.6	3.43	2.73	0.70	0.61	6.4	3.9	0.80	0.00
59.55	7.5	0.19	2.54	153.5	4	114.6	3.45	2.74	0.71	0.60	4.8	2.9	0.32	0.00
59.87	7.5	0.05	0.60	144.0	1	111.4	3.47	2.75	0.72	0.60	3.6	2.2	0.33	0.00
60.20	24.0	0.40	1.67	127.4	6	114.6	3.49	2.76	0.73	0.60	9.2	5.5	1.64	0.11
60.53	62.0	0.96	1.55	27.9	7	117.8	3.50	2.77	0.74	0.60	19.8	11.9	UnDef	0.00
60.86	65.0	0.73	1.12	22.8	7	117.8	3.52	2.77	0.75	0.60	20.7	12.5	UnDef	0.22
61.19	97.9	0.56	0.57	22.7	8	120.9	3.54	2.78	0.76	0.60	23.4	14.0	UnDef	0.15
61.52	78.1	1.15	1.48	27.8	7	117.8	3.56	2.79	0.77	0.60	24.9	14.9	UnDef	0.32
61.84	34.9	1.06	3.05	69.9	5	114.6	3.58	2.80	0.78	0.60	16.7	10.0	2.50	0.18
62.17	51.8	0.75	1.44	45.9	7	117.8	3.60	2.81	0.79	0.60	16.5	9.9	UnDef	0.40
62.50	40.1	0.70	1.75	26.4	7	117.8	3.62	2.82	0.80	0.60	12.8	7.6	UnDef	0.23
[illegible]83	20.4	0.68	3.32	57.0	5	114.6	3.64	2.83	0.81	0.59	9.7	5.8	1.34	0.00
[illegible]16	25.2	0.65	2.58	86.0	5	114.6	3.66	2.84	0.82	0.59	12.1	7.2	1.73	0.12
63.48	17.9	0.61	3.39	91.3	4	114.6	3.68	2.85	0.83	0.59	11.4	6.8	1.14	0.00
63.81	37.3	0.67	1.79	64.5	6	114.6	3.70	2.85	0.84	0.59	14.3	8.4	2.68	0.20
64.14	27.3	0.88	3.22	77.8	5	114.6	3.71	2.86	0.85	0.59	13.1	7.7	1.88	0.00
64.47	21.3	0.73	3.44	81.2	5	114.6	3.73	2.87	0.86	0.59	10.2	6.0	1.41	0.00
64.80	13.6	0.41	3.02	92.9	5	114.6	3.75	2.88	0.87	0.59	6.5	3.8	0.79	0.00
65.12	9.6	0.17	1.77	135.7	5	114.6	3.77	2.89	0.88	0.59	4.6	2.7	0.47	0.00
65.45	13.9	0.29	2.09	151.8	5	114.6	3.79	2.90	0.89	0.59	6.7	3.9	0.81	0.00
65.78	34.2	0.78	2.29	77.4	6	114.6	3.81	2.91	0.90	0.59	13.1	7.7	2.43	0.17
66.11	31.4	1.06	3.37	76.0	5	114.6	3.83	2.91	0.91	0.59	15.0	8.8	2.21	0.00
66.44	57.8	0.72	1.24	49.5	7	117.8	3.85	2.92	0.92	0.58	18.4	10.8	UnDef	0.42
66.76	67.2	0.39	0.58	26.0	8	120.9	3.87	2.93	0.93	0.58	16.1	9.4	UnDef	0.13
67.09	69.5	0.32	0.46	26.9	8	120.9	3.89	2.94	0.94	0.58	16.6	9.7	UnDef	0.09
67.42	55.0	0.39	0.70	27.8	8	120.9	3.91	2.95	0.95	0.58	13.2	7.7	UnDef	0.16
67.75	53.9	0.19	0.34	27.9	8	120.9	3.93	2.96	0.96	0.58	12.9	7.5	UnDef	0.08
68.08	57.8	0.10	0.16	27.8	8	120.9	3.95	2.97	0.97	0.58	13.8	8.0	UnDef	0.08
68.40	74.9	0.66	0.88	28.3	8	120.9	3.97	2.98	0.98	0.58	17.9	10.4	UnDef	0.17
68.73	40.9	0.98	2.39	115.6	6	114.6	3.98	2.99	0.99	0.58	15.6	9.1	2.95	0.22
69.06	61.2	0.85	1.39	117.4	7	117.8	4.00	3.00	1.01	0.58	19.5	11.3	UnDef	0.00
69.39	56.1	1.48	2.63	103.9	6	114.6	4.02	3.01	1.02	0.58	21.5	12.4	4.17	0.45
69.72	93.1	1.94	2.08	75.9	7	117.8	4.04	3.02	1.03	0.58	29.7	17.1	UnDef	0.00
70.05	84.3	1.94	2.30	58.3	7	117.8	4.06	3.03	1.04	0.57	26.9	15.5	UnDef	0.00
70.37	51.5	1.69	3.29	87.9	5	114.6	4.08	3.03	1.05	0.57	24.6	14.1	3.79	0.36
70.70	129.9	1.46	1.13	44.2	8	120.9	4.10	3.04	1.06	0.57	31.1	17.8	UnDef	0.27
71.03	60.2	1.14	1.89	23.2	7	117.8	4.12	3.05	1.07	0.57	19.2	11.0	UnDef	0.00
71.36	30.5	0.86	2.83	128.3	5	114.6	4.14	3.06	1.08	0.57	14.6	8.3	2.11	0.00
71.69	25.3	0.54	2.14	159.5	6	114.6	4.16	3.07	1.09	0.57	9.7	5.5	1.69	0.11
72.01	23.1	0.58	2.50	150.6	5	114.6	4.18	3.08	1.10	0.57	11.0	6.3	1.51	0.00
72.34	16.3	0.40	2.46	154.5	5	114.6	4.19	3.09	1.11	0.57	7.8	4.4	0.97	0.00
72.67	10.3	0.15	1.41	178.8	5	114.6	4.21	3.10	1.12	0.57	4.9	2.8	0.49	0.00
[illegible]00	8.4	0.04	0.48	175.0	6	114.6	4.23	3.10	1.13	0.57	3.2	1.8	0.33	0.00
[illegible].33	6.7	0.01	0.15	170.1	1	111.4	4.25	3.11	1.14	0.57	3.2	1.8	0.20	0.00
73.65	6.3	0.01	0.16	166.5	1	111.4	4.27	3.12	1.15	0.57	3.0	1.7	0.16	0.00
73.98	6.4	0.01	0.16	164.5	1	111.4	4.29	3.13	1.16	0.57	3.0	1.7	0.17	0.00

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
74.31	7.0	0.12	1.64	164.1	5	114.6	4.31	3.14	1.17	0.56	3.4	1.9	0.22	0.00
74.64	24.3	0.49	2.02	116.6	6	114.6	4.32	3.15	1.18	0.56	9.3	5.3	1.60	0.11
74.97	56.3	1.04	1.85	41.6	7	117.8	4.34	3.15	1.19	0.56	18.0	10.1	UnDef	0.43
75.29	37.1	1.03	2.78	54.1	6	114.6	4.36	3.16	1.20	0.56	14.2	8.0	2.62	0.18
75.62	25.0	0.79	3.15	94.7	5	114.6	4.38	3.17	1.21	0.56	12.0	6.7	1.65	0.00
75.95	22.2	0.70	3.16	95.2	5	114.6	4.40	3.18	1.22	0.56	10.6	6.0	1.42	0.00
76.28	20.3	0.67	3.30	99.2	5	114.6	4.42	3.19	1.23	0.56	9.7	5.5	1.27	0.00
76.61	14.7	0.51	3.45	125.1	4	114.6	4.44	3.20	1.24	0.56	9.4	5.2	0.82	0.00
76.93	13.0	0.36	2.75	147.3	5	114.6	4.46	3.21	1.25	0.56	6.2	3.5	0.68	0.00
77.26	10.7	0.24	2.20	155.8	5	114.6	4.48	3.21	1.26	0.56	5.1	2.9	0.50	0.00
77.59	8.0	0.17	2.06	173.9	5	114.6	4.49	3.22	1.27	0.56	3.8	2.1	0.28	0.00
77.92	9.5	0.13	1.37	145.9	5	114.6	4.51	3.23	1.28	0.56	4.5	2.5	0.40	0.00
78.25	9.2	0.12	1.26	159.3	5	114.6	4.53	3.24	1.29	0.56	4.4	2.4	0.37	0.00
78.58	10.4	0.17	1.64	162.0	5	114.6	4.55	3.25	1.30	0.55	5.0	2.8	0.47	0.00
78.90	12.5	0.22	1.73	161.5	5	114.6	4.57	3.26	1.31	0.55	6.0	3.3	0.63	0.00
79.23	12.1	0.20	1.62	166.7	5	114.6	4.59	3.27	1.32	0.55	5.8	3.2	0.60	0.00
79.56	9.3	0.11	1.19	183.6	5	114.6	4.61	3.27	1.33	0.55	4.4	2.5	0.37	0.00
79.89	7.8	0.05	0.58	184.5	1	111.4	4.63	3.28	1.34	0.55	3.7	2.1	0.25	0.00
80.22	8.0	0.04	0.44	189.2	1	111.4	4.64	3.29	1.35	0.55	3.8	2.1	0.27	0.00
80.54	13.5	0.09	0.67	172.9	6	114.6	4.66	3.30	1.36	0.55	5.2	2.9	0.71	0.00
80.87	15.1	0.22	1.42	185.5	6	114.6	4.68	3.31	1.37	0.55	5.8	3.2	0.84	0.09
81.20	12.2	0.14	1.15	180.0	6	114.6	4.70	3.32	1.38	0.55	4.7	2.6	0.60	0.08
81.53	10.8	0.11	0.97	202.4	6	114.6	4.72	3.32	1.39	0.55	4.1	2.3	0.49	0.00
81.86	12.0	0.11	0.92	195.4	6	114.6	4.74	3.33	1.40	0.55	4.6	2.5	0.58	0.08
82.18	11.8	0.15	1.23	210.0	6	114.6	4.76	3.34	1.41	0.55	4.5	2.5	0.56	0.08
82.51	13.0	0.24	1.82	195.9	5	114.6	4.78	3.35	1.42	0.55	6.2	3.4	0.65	0.00
82.84	13.2	0.43	3.24	164.4	4	114.6	4.79	3.36	1.43	0.55	8.4	4.6	0.67	0.00
[illegible]17	11.3	0.26	2.31	166.8	5	114.6	4.81	3.37	1.45	0.54	5.4	2.9	0.52	0.00
[illegible]50	11.1	0.18	1.58	199.3	5	114.6	4.83	3.38	1.46	0.54	5.3	2.9	0.50	0.00
83.82	10.5	0.19	1.76	198.7	5	114.6	4.85	3.38	1.47	0.54	5.0	2.7	0.45	0.00
84.15	13.9	1.36	9.83	219.5	3	111.4	4.87	3.39	1.48	0.54	13.3	7.2	0.72	0.00
84.48	126.8	3.54	2.79	4.7	7	117.8	4.89	3.40	1.49	0.54	40.5	21.9	UnDef	0.00
84.81	174.3	3.49	2.00	-28.8	7	117.8	4.91	3.41	1.50	0.54	55.6	30.1	UnDef	0.00
85.14	31.7	1.61	5.08	-24.8	3	111.4	4.93	3.42	1.51	0.54	30.4	16.4	2.14	0.00
85.46	26.0	0.51	1.96	-22.3	6	114.6	4.94	3.43	1.52	0.54	10.0	5.4	1.69	0.11
85.79	23.0	0.54	2.35	-21.1	6	114.6	4.96	3.44	1.53	0.54	8.8	4.8	1.45	0.00
86.12	17.9	0.40	2.24	-20.0	5	114.6	4.98	3.44	1.54	0.54	8.6	4.6	1.03	0.00
86.45	14.5	0.36	2.45	-19.0	5	114.6	5.00	3.45	1.55	0.54	7.0	3.7	0.76	0.00
86.78	25.1	0.44	1.76	-17.1	6	114.6	5.02	3.46	1.56	0.54	9.6	5.2	1.61	0.11
87.11	26.7	0.38	1.41	-14.0	6	114.6	5.04	3.47	1.57	0.54	10.2	5.5	1.73	0.11
87.43	29.0	0.73	2.51	-9.7	6	114.6	5.06	3.48	1.58	0.54	11.1	6.0	1.91	0.12

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5439
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-6
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/23/03
CPT Time: 17:20
CPT File: 717CP006.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 11.23 (ft): 36.8
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-03	0.00	1000.0	0.36	10	134.6	0.0	134.6	0.0	50	95.0	1.0	-0.30	0.0	33.7
0.49	5.0E-02	0.00	1000.0	0.68	10	254.5	0.0	254.5	0.0	50	95.0	1.0	-0.36	0.0	50.9
0.82	5.0E-03	0.00	1000.0	1.36	9	318.9	0.0	318.9	1.9	50	95.0	1.0	-0.45	0.0	79.7
1.15	5.0E-03	0.00	1000.0	1.92	12	371.0	UnDef	UnDef	0.0	50	95.0	1.0	-0.51	UnDef	UnDef
1.48	5.0E-04	0.00	1000.0	2.40	12	358.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.56	UnDef	UnDef
1.80	5.0E-04	0.00	1000.0	2.34	12	331.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.55	UnDef	UnDef
2.13	5.0E-04	0.00	1000.0	2.27	12	303.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.54	UnDef	UnDef
2.46	5.0E-04	0.00	858.9	2.30	12	242.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.53	UnDef	UnDef
2.79	5.0E-04	0.00	560.5	2.55	12	179.4	UnDef	UnDef	0.0	50	90.4	1.0	-0.51	UnDef	UnDef
3.12	5.0E-05	0.00	362.5	2.28	12	129.4	UnDef	UnDef	0.0	48	79.5	10.0	-0.43	UnDef	UnDef
3.44	5.0E-04	0.00	348.9	1.75	9	137.3	6.7	144.1	6.7	48	79.8	1.0	-0.38	1.4	47.2
3.77	5.0E-05	-0.01	313.5	2.33	12	134.9	UnDef	UnDef	0.0	46	78.1	10.0	-0.42	UnDef	UnDef
4.10	5.0E-05	-0.01	221.5	2.23	9	103.5	20.2	123.6	11.1	46	69.3	10.0	-0.37	4.7	46.1
4.43	5.0E-04	-0.01	197.0	1.58	9	99.2	12.1	111.2	9.1	46	67.0	1.0	-0.30	2.4	34.7
4.76	5.0E-04	-0.01	177.6	1.39	9	92.7	10.4	103.1	8.8	44	65.1	1.0	-0.28	2.0	32.3
5.09	5.0E-04	-0.01	150.9	1.15	9	81.5	8.5	89.9	8.5	44	61.4	1.0	-0.24	1.7	28.2
5.41	5.0E-05	-0.01	88.3	1.62	7	49.4	19.2	68.6	15.5	42	47.0	10.0	-0.23	4.1	23.4
5.74	5.0E-04	0.00	130.3	0.99	9	74.8	7.8	82.6	8.6	44	58.9	1.0	-0.21	1.5	25.9
6.07	5.0E-03	0.00	195.7	0.62	9	115.2	0.0	115.2	3.6	44	71.3	1.0	-0.21	0.0	28.2
6.40	5.0E-03	0.00	189.0	0.69	9	114.3	0.0	114.3	4.3	44	71.1	1.0	-0.21	0.0	28.0
6.73	5.0E-04	0.00	169.1	1.21	9	104.9	9.5	114.4	8.1	44	68.7	1.0	-0.26	1.9	36.1
7.05	5.0E-04	0.00	159.4	1.86	9	101.3	22.3	123.7	11.8	44	67.7	1.0	-0.30	4.2	37.3
7.38	5.0E-05	0.00	137.1	2.59	7	89.2	37.4	126.6	16.1	44	64.0	10.0	-0.34	7.9	42.8
7.79	5.0E-05	0.00	99.0	3.09	7	66.3	49.3	115.7	21.0	42	55.5	10.0	-0.34	9.4	35.4
8.20	5.0E-06	0.00	70.0	3.10	7	48.3	54.2	102.5	24.8	UnDef	UnDef	10.0	UnDef	11.7	35.3
8.53	5.0E-06	0.00	57.6	2.76	7	40.6	50.4	91.0	25.7	UnDef	UnDef	10.0	UnDef	10.5	30.4
8.86	5.0E-05	0.00	52.1	2.31	7	37.5	42.5	80.0	24.9	38	39.2	10.0	-0.21	7.3	22.0
9.19	5.0E-05	0.00	49.8	2.07	7	36.5	38.6	75.1	24.3	38	38.4	10.0	-0.19	6.8	21.1
9.51	5.0E-05	0.00	54.6	2.22	7	40.7	41.3	81.9	23.9	40	41.5	10.0	-0.21	7.3	23.2
9.84	5.0E-05	0.00	51.3	2.24	7	38.8	43.3	82.2	24.7	38	40.2	10.0	-0.21	7.5	22.7
10.17	5.0E-05	0.00	50.1	1.90	7	38.6	36.6	75.2	23.2	38	40.0	10.0	-0.18	6.6	21.7
10.50	5.0E-05	0.00	51.3	1.92	7	40.1	37.4	77.6	23.1	38	41.1	10.0	-0.19	6.8	22.5
10.83	5.0E-05	0.00	60.2	1.91	7	47.6	35.9	83.5	21.1	40	46.0	10.0	-0.20	6.8	25.5
11.15	5.0E-04	0.00	76.5	2.02	7	61.2	36.6	97.9	19.0	40	53.2	1.0	-0.24	6.1	26.1
11.48	5.0E-05	0.00	84.6	2.56	7	68.7	48.2	116.9	20.5	42	56.5	10.0	-0.28	9.4	36.2
11.81	5.0E-05	0.00	78.3	2.62	7	64.4	51.0	115.4	21.5	42	54.7	10.0	-0.28	9.6	34.9
12.14	5.0E-05	0.00	70.5	2.58	7	58.9	51.9	110.7	22.5	40	52.1	10.0	-0.26	9.5	32.6
12.47	5.0E-05	0.00	58.4	2.67	7	49.6	57.8	107.4	25.2	40	47.2	10.0	-0.25	9.9	29.3
12.80	5.0E-05	-0.01	49.6	2.40	7	42.8	54.4	97.2	26.0	38	42.9	10.0	-0.21	9.0	25.8

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-05	-0.01	40.2	2.30	7	35.2	58.3	93.5	28.3	38	37.4	10.0	-0.18	8.8	22.6
13.45	5.0E-05	0.00	36.8	1.93	7	32.7	49.5	82.3	27.5	38	35.3	10.0	-0.15	7.7	20.6
13.78	5.0E-05	0.00	28.6	2.14	6	26.0	72.1	98.1	32.5	36	30.0	10.0	-0.14	8.7	18.8
14.11	5.0E-05	0.00	27.8	1.63	7	25.5	50.2	75.7	29.8	36	30.0	10.0	-0.11	7.1	17.1
14.44	5.0E-05	0.01	28.2	1.54	7	26.2	46.8	73.0	29.0	36	30.0	10.0	-0.10	6.9	17.1
14.76	5.0E-05	0.01	28.0	1.67	7	26.3	52.6	78.9	30.0	36	30.0	10.0	-0.11	7.4	17.7
15.09	5.0E-05	0.01	26.5	1.77	7	25.2	61.1	86.3	31.5	36	30.0	10.0	-0.11	7.8	17.7
15.42	5.0E-05	0.01	21.7	2.03	6	21.1	84.3	105.4	36.5	34	30.0	10.0	-0.10	8.3	16.5
15.75	5.0E-05	0.00	24.8	1.48	7	24.2	52.0	76.2	30.6	34	30.0	10.0	-0.09	7.1	16.5
16.08	5.0E-05	0.00	23.9	1.55	7	23.6	58.2	81.8	31.7	34	30.0	10.0	-0.09	7.4	16.6
16.40	5.0E-05	0.01	22.6	1.72	6	22.6	75.3	97.9	33.8	34	30.0	10.0	-0.09	8.2	17.0
16.73	5.0E-05	0.01	23.9	2.05	6	24.0	96.2	120.2	35.0	34	30.0	10.0	-0.11	9.4	18.8
17.06	5.0E-05	0.00	23.1	2.08	6	23.5	94.0	117.4	35.7	34	30.0	10.0	-0.11	9.2	18.4
17.39	5.0E-05	0.01	17.3	1.34	6	18.0	72.2	90.2	35.7	32	30.0	7.5	-0.04	7.1	14.1
17.72	5.0E-05	0.04	18.0	1.38	6	18.9	75.6	94.5	35.2	32	30.0	8.0	-0.05	7.4	14.8
18.04	5.0E-05	0.03	18.8	1.22	7	19.9	60.3	80.2	33.2	32	30.0	8.6	-0.04	6.9	14.7
18.37	5.0E-05	0.04	14.9	1.10	6	16.1	64.4	80.5	36.3	32	30.0	6.0	-0.01	6.3	12.6
18.70	5.0E-06	0.06	13.6	2.00	6	14.9	59.5	74.4	45.3	UnDef	UnDef	5.2	UnDef	7.3	14.6
19.03	5.0E-05	0.00	14.7	1.48	6	16.2	64.6	80.8	39.9	32	30.0	5.8	-0.03	6.3	12.7
19.36	5.0E-05	0.02	12.5	1.11	6	14.0	56.0	70.0	39.9	30	30.0	4.6	0.00	5.5	11.0
19.68	5.0E-05	0.02	15.2	1.10	6	17.0	67.8	84.8	35.9	32	30.0	6.2	-0.01	6.6	13.3
20.01	5.0E-05	0.01	24.5	1.71	7	26.9	73.3	100.2	32.4	34	30.0	10.0	-0.10	8.9	19.4
20.34	5.0E-04	0.00	46.8	1.93	7	50.8	53.8	104.6	24.3	38	47.8	1.0	-0.18	7.9	24.4
20.67	5.0E-05	0.00	46.8	2.66	7	51.2	81.7	132.9	28.0	38	48.1	10.0	-0.22	12.5	32.6
21.00	5.0E-05	0.00	41.8	3.02	6	46.2	107.8	154.0	31.2	38	45.2	10.0	-0.23	14.1	32.2
21.33	5.0E-05	0.00	34.6	2.94	6	38.8	126.2	165.0	33.7	36	40.1	10.0	-0.20	13.9	29.1
21.65	5.0E-05	0.00	25.9	2.80	6	29.4	117.7	147.2	37.7	34	32.2	10.0	-0.16	11.5	23.0
[illegible]98	5.0E-05	0.00	15.7	2.23	6	18.4	73.7	92.1	43.9	32	30.0	6.4	-0.07	7.2	14.4
[illegible]31	5.0E-05	0.00	15.6	1.61	6	18.5	74.0	92.5	39.7	32	30.0	6.4	-0.05	7.2	14.5
22.64	5.0E-05	0.00	18.5	1.36	6	21.9	83.4	105.3	34.7	32	30.0	8.4	-0.05	8.4	17.0
22.97	5.0E-05	0.00	26.3	2.01	6	30.8	93.5	124.2	33.2	34	33.5	10.0	-0.12	10.7	22.7
23.29	5.0E-05	-0.01	28.8	2.37	6	33.9	111.7	145.6	33.7	36	36.3	10.0	-0.15	12.2	25.5
23.62	5.0E-03	0.00	65.2	1.30	7	75.7	34.0	109.8	16.6	40	59.3	1.0	-0.17	4.5	23.0
23.95	5.0E-02	0.00	138.1	1.11	9	160.4	18.7	179.1	8.9	44	80.8	1.0	-0.23	2.2	33.6
24.28	5.0E-03	0.00	159.5	1.80	9	186.3	39.1	225.4	11.5	44	85.1	1.0	-0.30	5.5	51.1
24.61	5.0E-04	0.00	139.2	2.45	7	164.0	62.6	226.6	15.4	44	81.4	1.0	-0.33	11.2	64.7
24.93	5.0E-04	0.00	152.5	2.77	7	180.7	74.1	254.8	15.9	44	84.2	1.0	-0.37	13.1	72.0
25.26	5.0E-04	0.00	139.7	3.24	12	166.7	UnDef	UnDef	0.0	44	81.9	1.0	-0.40	UnDef	UnDef
25.59	5.0E-05	0.00	111.2	3.28	7	133.8	94.9	228.8	20.5	42	75.6	10.0	-0.37	18.4	70.8
25.92	5.0E-04	0.00	104.7	3.00	7	126.9	85.6	212.5	20.1	42	74.1	1.0	-0.34	13.9	55.3
26.25	5.0E-05	0.00	95.5	3.13	7	116.5	91.9	208.4	21.5	42	71.7	10.0	-0.34	17.4	63.0
26.57	5.0E-06	0.00	64.8	4.18	6	80.0	155.1	235.1	29.7	UnDef	UnDef	10.0	UnDef	27.5	66.6
26.90	5.0E-05	0.00	53.6	3.65	6	66.8	138.8	205.6	30.3	40	55.7	10.0	-0.30	19.1	45.2
27.23	5.0E-05	0.00	44.0	3.20	6	55.3	129.3	184.6	31.2	38	50.3	10.0	-0.24	16.9	38.5
27.56	5.0E-05	0.00	32.3	2.80	6	41.2	143.5	184.7	34.1	36	41.8	10.0	-0.18	15.2	31.3
27.89	5.0E-05	0.02	24.9	2.10	6	32.2	122.1	154.3	34.6	34	34.8	10.0	-0.12	12.4	25.0
28.21	5.0E-04	0.03	24.1	1.47	7	31.4	71.6	103.0	31.0	34	34.1	1.0	-0.08	7.9	18.1
28.54	5.0E-06	0.05	15.7	3.21	6	21.0	84.0	105.0	49.3	UnDef	UnDef	6.4	UnDef	10.3	20.6
28.87	5.0E-06	0.01	13.0	3.57	4	17.7	70.9	88.6	55.1	UnDef	UnDef	4.8	UnDef	8.7	17.3
29.20	5.0E-06	0.02	14.0	3.32	4	19.1	76.4	95.5	52.2	UnDef	UnDef	5.4	UnDef	9.4	18.7
29.53	5.0E-06	0.03	15.2	3.10	6	20.7	83.0	103.7	49.4	UnDef	UnDef	6.1	UnDef	10.2	20.3
29.86	5.0E-05	0.03	15.5	2.78	6	21.2	85.0	106.2	47.3	32	30.0	6.3	-0.09	8.3	16.6
30.18	5.0E-05	0.02	16.6	2.62	6	22.8	91.2	114.1	45.0	32	30.0	7.1	-0.09	8.9	17.9
30.59	5.0E-06	0.03	8.6	3.27	1	12.6	UnDef	UnDef	100.0	UnDef	UnDef	2.7	UnDef	UnDef	UnDef
31.00	5.0E-07	0.39	2.1	2.83	1	4.0	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
31.33	1.0E-07	0.73	1.7	0.32	1	3.6	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
31.66	1.0E-07	0.95	1.3	2.92	1	3.1	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
31.99	5.0E-07	0.28	2.4	2.39	1	4.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
[illegible]32	5.0E-07	0.33	1.3	3.25	1	3.1	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
[illegible]64	5.0E-06	0.16	5.5	2.86	4	8.7	34.8	43.5	73.4	UnDef	UnDef	1.5	UnDef	4.3	8.5
32.97	5.0E-06	0.12	5.2	3.41	1	8.4	UnDef	UnDef	100.0	UnDef	UnDef	1.4	UnDef	UnDef	UnDef
33.30	5.0E-08	0.73	1.6	4.62	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5439
CPT File: 717CP006.COR

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-06	0.36	3.2	2.74	1	5.7	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
33.96	5.0E-07	0.11	6.2	3.93	1	9.9	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
34.28	5.0E-05	0.05	10.5	2.43	4	15.8	63.4	79.2	53.8	30	30.0	3.5	-0.03	6.2	12.4
34.61	5.0E-07	0.12	5.0	3.88	1	8.3	UnDef	UnDef	100.0	UnDef	UnDef	1.3	UnDef	UnDef	UnDef
34.94	5.0E-08	0.36	2.9	5.60	1	5.5	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
35.27	5.0E-07	0.13	5.7	3.85	1	9.4	UnDef	UnDef	100.0	UnDef	UnDef	1.6	UnDef	UnDef	UnDef
35.60	5.0E-05	0.02	12.9	2.03	6	19.6	78.3	97.9	46.6	30	30.0	4.8	-0.04	7.7	15.3
35.92	5.0E-06	0.04	7.3	2.94	4	11.7	46.8	58.5	65.9	UnDef	UnDef	2.1	UnDef	5.7	11.5
36.25	5.0E-08	0.50	1.4	6.97	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
36.58	1.0E-07	1.48	0.9	2.18	1	2.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
36.91	1.0E-07	1.43	0.9	1.04	1	2.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
37.24	1.0E-07	0.79	1.4	0.66	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
37.57	1.0E-07	1.15	1.0	1.12	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
37.89	1.0E-07	0.95	1.3	1.10	1	3.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
38.22	5.0E-07	0.31	3.5	3.39	1	6.5	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
38.55	5.0E-06	0.08	5.7	2.82	4	9.6	38.5	48.1	72.2	UnDef	UnDef	1.5	UnDef	4.7	9.4
38.88	5.0E-06	0.22	2.7	2.90	1	5.4	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
39.21	1.0E-07	0.69	1.7	1.11	1	3.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
39.53	1.0E-07	1.12	1.1	1.68	2	3.1	12.3	15.4	100.0	UnDef	UnDef	0.5	UnDef	1.5	3.0
39.86	5.0E-05	0.26	4.0	0.57	1	7.3	UnDef	UnDef	100.0	30	30.0	1.1	0.18	UnDef	UnDef
40.19	5.0E-05	0.15	6.5	1.09	6	10.9	43.7	54.6	54.7	30	30.0	1.8	0.08	4.3	8.5
40.52	5.0E-04	0.05	18.7	1.29	6	28.8	97.7	126.5	33.9	32	31.6	1.0	-0.04	8.8	18.2
40.85	5.0E-03	0.01	41.6	0.86	7	62.4	34.6	96.9	18.4	38	53.7	1.0	-0.09	4.4	19.6
41.17	5.0E-03	0.00	43.4	1.27	7	65.1	49.0	114.1	21.1	38	55.0	1.0	-0.13	5.8	21.8
41.50	5.0E-04	0.01	41.1	1.79	7	61.8	72.1	134.0	25.2	38	53.5	1.0	-0.15	10.2	30.4
41.83	5.0E-04	0.00	43.4	1.85	7	65.4	73.2	138.6	24.8	38	55.1	1.0	-0.16	10.5	31.9
42.16	5.0E-04	0.00	43.1	1.93	7	65.0	77.6	142.6	25.4	38	54.9	1.0	-0.17	10.9	32.2
[redacted]49	5.0E-04	0.00	38.1	2.06	7	57.9	90.0	147.9	27.8	38	51.6	1.0	-0.16	11.6	30.5
[redacted]81	5.0E-04	0.00	40.3	1.70	7	61.2	69.6	130.8	24.9	38	53.2	1.0	-0.15	10.0	29.9
43.14	5.0E-04	0.00	36.7	1.85	7	56.0	80.5	136.5	27.1	38	50.7	1.0	-0.15	10.7	28.9
43.47	5.0E-04	0.00	33.0	2.17	7	50.7	107.8	158.5	30.5	36	47.8	1.0	-0.15	12.2	28.8
43.80	5.0E-04	0.01	38.0	1.95	7	58.2	84.7	142.9	27.2	38	51.8	1.0	-0.16	11.2	30.2
44.13	5.0E-04	0.00	45.8	1.89	7	69.9	74.7	144.6	24.4	38	57.0	1.0	-0.17	10.9	33.7
44.45	5.0E-04	0.00	50.6	2.02	7	77.2	77.9	155.1	23.8	38	59.9	1.0	-0.19	11.5	36.7
44.78	5.0E-04	0.00	48.3	1.82	7	73.9	70.5	144.4	23.3	38	58.6	1.0	-0.18	10.6	34.7
45.11	5.0E-04	0.00	43.1	1.67	7	66.3	67.1	133.5	23.8	38	55.5	1.0	-0.15	9.9	31.6
45.44	5.0E-04	0.00	37.6	1.57	7	58.1	66.7	124.9	25.0	38	51.7	1.0	-0.13	9.5	28.5
45.77	5.0E-03	0.00	32.4	1.18	7	50.5	53.7	104.2	24.3	36	47.7	1.0	-0.09	5.9	18.2
46.10	5.0E-04	0.00	24.8	1.12	7	39.1	60.9	100.0	27.8	34	40.3	1.0	-0.06	7.8	20.6
46.42	5.0E-04	0.01	21.0	1.04	7	33.4	65.2	98.6	29.8	34	35.9	1.0	-0.04	7.7	18.6
46.75	5.0E-04	0.02	19.3	1.32	7	30.9	100.4	131.3	33.6	32	33.6	1.0	-0.05	9.2	19.3
47.08	5.0E-04	0.02	16.0	0.95	7	26.0	83.5	109.6	33.6	32	30.0	1.0	-0.01	7.7	16.2
47.41	5.0E-05	0.15	5.6	0.85	6	10.3	41.1	51.4	55.3	30	30.0	1.5	0.11	4.0	8.1
47.74	5.0E-05	0.35	3.4	0.30	1	6.9	UnDef	UnDef	100.0	30	30.0	0.9	0.25	UnDef	UnDef
48.06	5.0E-05	0.46	2.3	0.71	1	5.3	UnDef	UnDef	100.0	30	30.0	0.7	0.24	UnDef	UnDef
48.39	1.0E-07	0.63	1.4	1.17	1	3.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
48.72	1.0E-07	1.10	1.0	0.63	1	3.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
49.05	5.0E-07	0.65	1.9	3.54	1	4.7	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
49.38	5.0E-03	0.01	34.4	1.40	7	54.6	63.5	118.0	25.1	36	49.9	1.0	-0.11	6.8	20.1
49.70	5.0E-03	0.00	68.3	1.81	7	106.9	64.8	171.7	19.1	40	69.2	1.0	-0.21	8.1	34.2
50.03	5.0E-04	0.00	61.3	2.73	7	96.4	108.5	204.8	24.8	40	66.2	1.0	-0.26	15.6	47.0
50.36	5.0E-05	0.00	50.7	3.08	6	80.2	139.1	219.2	28.8	38	60.9	10.0	-0.26	20.6	52.0
50.69	5.0E-04	0.00	49.6	2.46	7	78.6	103.4	182.0	26.3	38	60.4	1.0	-0.22	14.1	39.8
51.02	5.0E-04	0.00	60.5	2.18	7	95.7	83.1	178.8	22.4	40	66.0	1.0	-0.22	12.8	44.0
51.34	5.0E-04	0.00	56.5	2.40	7	89.6	95.4	184.9	24.3	40	64.1	1.0	-0.23	13.9	43.1
51.67	5.0E-05	0.00	39.2	3.00	6	62.8	163.7	226.5	32.1	38	53.9	10.0	-0.22	20.3	44.9
52.00	5.0E-05	0.00	30.5	3.44	6	49.3	197.4	246.7	37.9	36	47.0	10.0	-0.21	19.3	38.6
52.33	5.0E-05	0.01	24.0	3.29	6	39.3	157.2	196.5	41.4	34	40.5	10.0	-0.17	15.4	30.8
[redacted]66	5.0E-05	0.02	19.3	3.25	6	32.1	128.5	160.6	45.2	32	34.7	9.0	-0.14	12.6	25.1
[redacted]98	5.0E-05	0.02	24.6	3.35	6	40.4	161.8	202.2	41.2	34	41.3	10.0	-0.17	15.8	31.7
53.31	5.0E-05	0.00	29.7	2.55	6	48.4	171.3	219.8	34.2	36	46.5	10.0	-0.16	18.0	37.0
53.64	5.0E-04	0.00	39.1	1.74	7	63.4	77.3	140.7	25.6	38	54.2	1.0	-0.15	10.8	31.5

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
53.97	5.0E-03	0.00	38.2	1.56	7	62.1	69.2	131.2	24.7	38	53.6	1.0	-0.14	7.5	22.7
54.30	5.0E-03	0.00	32.3	0.98	7	52.8	47.4	100.2	22.7	36	49.0	1.0	-0.08	5.4	18.4
54.63	5.0E-04	0.00	21.7	1.00	7	36.3	63.2	99.4	28.8	34	38.2	1.0	-0.04	7.8	19.6
54.95	5.0E-04	0.00	18.7	1.26	7	31.5	102.4	133.9	33.6	32	34.2	1.0	-0.05	9.4	19.7
55.28	5.0E-05	0.06	12.3	2.42	6	21.5	85.8	107.3	50.1	30	30.0	4.5	-0.04	8.4	16.8
55.61	5.0E-05	0.11	11.5	2.77	4	20.2	80.8	100.9	53.7	30	30.0	4.0	-0.04	7.9	15.8
55.94	5.0E-05	0.05	15.9	2.71	6	27.2	108.8	136.0	46.4	32	30.0	6.6	-0.09	10.6	21.3
56.27	5.0E-05	0.02	15.6	2.95	6	26.8	107.3	134.2	48.1	32	30.0	6.4	-0.10	10.5	21.0
56.59	5.0E-05	0.02	16.2	2.91	6	27.9	111.5	139.3	47.1	32	30.7	6.8	-0.10	10.9	21.8
56.92	5.0E-04	0.00	22.2	1.41	7	37.5	95.7	133.1	31.9	34	39.1	1.0	-0.07	10.0	22.2
57.25	5.0E-03	0.00	19.1	0.66	7	32.6	47.9	80.6	27.3	32	35.2	1.0	0.00	4.7	12.7
57.58	5.0E-03	0.00	13.6	0.26	7	23.8	0.0	23.8	5.0	32	30.0	1.0	0.10	0.0	5.8
57.91	5.0E-04	0.00	10.2	0.18	7	18.4	0.0	18.4	5.0	30	30.0	1.0	0.15	0.0	6.0
58.23	5.0E-04	0.00	10.9	1.02	6	19.6	78.5	98.1	41.7	30	30.0	1.0	0.02	6.4	12.8
58.56	5.0E-05	0.13	4.9	2.24	4	9.9	39.5	49.4	72.5	30	30.0	1.3	0.07	3.9	7.7
58.89	5.0E-06	0.26	4.6	2.52	4	9.4	37.8	47.2	76.4	UnDef	UnDef	1.2	UnDef	4.6	9.2
59.22	5.0E-06	0.26	3.6	3.97	1	7.9	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
59.55	5.0E-07	1.01	1.5	4.71	1	4.4	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
59.87	1.0E-07	0.93	1.5	1.11	1	4.5	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
60.20	5.0E-05	0.16	7.4	1.96	4	14.1	56.5	70.7	58.9	30	30.0	2.2	0.04	5.5	11.1
60.53	5.0E-04	0.00	21.2	1.65	6	36.5	134.1	170.6	34.4	34	38.4	1.0	-0.08	11.5	23.4
60.86	5.0E-04	0.00	22.1	1.18	7	38.2	77.7	115.8	30.1	34	39.7	1.0	-0.06	9.0	21.4
61.19	5.0E-03	0.00	33.9	0.59	7	57.4	31.5	88.9	18.3	36	51.4	1.0	-0.04	4.0	18.0
61.52	5.0E-04	0.00	26.7	1.55	7	45.7	90.9	136.6	29.9	36	44.8	1.0	-0.10	10.6	25.5
61.84	5.0E-06	0.04	11.2	3.39	4	20.4	81.6	102.0	57.7	UnDef	UnDef	3.9	UnDef	10.0	20.0
62.17	5.0E-04	0.01	17.1	1.55	6	30.2	120.9	151.1	37.5	32	33.0	1.0	-0.05	9.9	19.7
62.50	5.0E-04	0.00	12.9	1.92	6	23.4	93.5	116.9	45.8	30	30.0	1.0	-0.04	7.6	15.3
[redacted]83	5.0E-06	0.06	5.9	4.05	1	11.8	UnDef	UnDef	100.0	UnDef	UnDef	1.6	UnDef	UnDef	UnDef
[redacted]16	5.0E-06	0.09	7.6	3.02	4	14.7	58.6	73.3	65.3	UnDef	UnDef	2.2	UnDef	7.2	14.3
63.48	5.0E-07	0.14	5.0	4.27	1	10.4	UnDef	UnDef	100.0	UnDef	UnDef	1.3	UnDef	UnDef	UnDef
63.81	5.0E-05	0.03	11.8	1.99	6	21.6	86.3	107.9	48.3	30	30.0	4.2	-0.03	8.4	16.9
64.14	5.0E-06	0.07	8.2	3.73	1	15.8	UnDef	UnDef	100.0	UnDef	UnDef	2.5	UnDef	UnDef	UnDef
64.47	5.0E-06	0.10	6.1	4.17	1	12.3	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
64.80	5.0E-06	0.21	3.4	4.16	1	7.9	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
65.12	5.0E-06	0.57	2.0	2.90	1	5.6	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
65.45	5.0E-06	0.38	3.5	2.87	1	8.0	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
65.78	5.0E-05	0.05	10.4	2.58	4	19.6	78.4	98.0	54.8	30	30.0	3.5	-0.03	7.7	15.4
66.11	5.0E-06	0.05	9.5	3.84	1	18.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
66.44	5.0E-04	0.01	18.5	1.33	6	33.1	121.6	154.7	34.4	32	35.6	1.0	-0.05	10.4	21.2
66.76	5.0E-03	0.00	21.6	0.62	7	38.4	43.6	82.0	24.9	34	39.8	1.0	-0.01	4.7	14.1
67.09	5.0E-03	0.00	22.3	0.49	7	39.6	0.0	39.6	5.0	34	40.8	1.0	0.01	0.0	9.7
67.42	5.0E-03	0.00	17.3	0.76	7	31.3	63.8	95.1	30.1	32	34.0	1.0	0.00	5.5	13.2
67.75	5.0E-03	0.00	16.9	0.37	7	30.6	0.0	30.6	5.0	32	33.4	1.0	0.05	0.0	7.5
68.08	5.0E-03	0.00	18.1	0.18	7	32.8	0.0	32.8	5.0	32	35.3	1.0	0.10	0.0	8.0
68.40	5.0E-03	0.00	23.8	0.93	7	42.5	58.2	100.7	26.7	34	42.7	1.0	-0.05	5.9	16.3
68.73	5.0E-05	0.07	12.3	2.65	6	23.1	92.5	115.6	51.5	30	30.0	4.5	-0.05	9.1	18.1
69.06	5.0E-04	0.05	19.1	1.49	6	34.6	138.3	172.8	35.1	32	36.8	1.0	-0.06	11.3	22.6
69.39	5.0E-05	0.04	17.3	2.84	6	31.7	126.7	158.4	45.4	32	34.3	7.5	-0.10	12.4	24.8
69.72	5.0E-04	0.02	29.5	2.18	6	52.4	140.8	193.3	32.3	36	48.8	1.0	-0.14	14.3	31.4
70.05	5.0E-04	0.01	26.5	2.42	6	47.4	189.7	237.2	35.3	36	45.9	1.0	-0.14	15.5	31.0
70.37	5.0E-06	0.04	15.6	3.58	4	28.9	115.6	144.5	51.1	UnDef	UnDef	6.4	UnDef	14.1	28.3
70.70	5.0E-03	0.00	41.3	1.16	7	72.9	53.9	126.8	20.9	38	58.2	1.0	-0.12	6.5	24.3
71.03	5.0E-04	-0.01	18.4	2.03	6	33.7	134.8	168.5	39.6	32	36.1	1.0	-0.08	11.0	22.0
71.36	5.0E-06	0.11	8.6	3.27	1	17.0	UnDef	UnDef	100.0	UnDef	UnDef	2.6	UnDef	UnDef	UnDef
71.69	5.0E-05	0.18	6.9	2.56	4	14.1	56.5	70.6	65.2	30	30.0	2.0	0.04	5.5	11.1
72.01	5.0E-06	0.19	6.1	3.05	1	12.9	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
72.34	5.0E-06	0.31	3.9	3.32	1	9.1	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
72.67	5.0E-06	0.73	2.0	2.38	1	5.7	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
[redacted]00	5.0E-05	1.05	1.3	0.97	1	4.6	UnDef	UnDef	100.0	30	30.0	0.5	0.00	UnDef	UnDef
[redacted]33	1.0E-07	1.67	0.8	0.40	1	3.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
73.65	1.0E-07	1.99	0.7	0.49	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
73.98	1.0E-07	1.92	0.7	0.48	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
74.31	5.0E-06	1.45	0.9	4.23	1	3.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
74.64	5.0E-05	0.12	6.4	2.45	4	13.4	53.7	67.2	66.5	30	30.0	1.8	0.04	5.3	10.5
74.97	5.0E-04	0.00	16.5	2.01	6	31.0	124.0	155.0	41.5	32	33.7	1.0	-0.07	10.1	20.2
75.29	5.0E-05	0.01	10.4	3.15	4	20.4	81.7	102.1	58.3	30	30.0	3.4	-0.05	8.0	16.0
75.62	5.0E-06	0.08	6.5	3.82	1	13.7	UnDef	UnDef	100.0	UnDef	UnDef	1.8	UnDef	UnDef	UnDef
75.95	5.0E-06	0.10	5.6	3.94	1	12.2	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
76.28	5.0E-06	0.12	5.0	4.22	1	11.1	UnDef	UnDef	100.0	UnDef	UnDef	1.3	UnDef	UnDef	UnDef
76.61	5.0E-07	0.26	3.2	4.95	1	8.0	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
76.93	5.0E-06	0.39	2.7	4.19	1	7.1	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
77.26	5.0E-06	0.58	1.9	3.79	1	5.8	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
77.59	5.0E-06	1.18	1.1	4.68	1	4.4	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
77.92	5.0E-06	0.66	1.5	2.61	1	5.2	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
78.25	5.0E-06	0.79	1.4	2.48	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
78.58	5.0E-06	0.64	1.8	2.91	1	5.6	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
78.90	5.0E-06	0.47	2.4	2.73	1	6.8	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
79.23	5.0E-06	0.52	2.3	2.61	1	6.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
79.56	5.0E-06	0.95	1.4	2.37	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
79.89	1.0E-07	1.39	1.0	1.42	1	4.2	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
80.22	1.0E-07	1.34	1.0	1.03	1	4.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
80.54	5.0E-05	0.46	2.7	1.02	1	7.3	UnDef	UnDef	100.0	30	30.0	0.8	0.21	UnDef	UnDef
80.87	5.0E-05	0.42	3.2	2.06	4	8.2	32.6	40.8	84.6	30	30.0	0.9	0.17	3.2	6.4
81.20	5.0E-05	0.57	2.3	1.88	4	6.5	26.2	32.7	94.8	30	30.0	0.7	0.24	2.6	5.1
81.53	5.0E-05	0.81	1.8	1.73	4	5.8	23.2	29.0	100.0	30	30.0	0.6	0.34	2.3	4.5
81.86	5.0E-05	0.64	2.2	1.51	4	6.4	25.8	32.2	92.3	30	30.0	0.7	0.26	2.5	5.0
82.18	5.0E-05	0.73	2.1	2.06	4	6.3	25.3	31.6	98.9	30	30.0	0.7	0.29	2.5	5.0
82.51	5.0E-06	0.57	2.4	2.88	1	6.9	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
82.84	5.0E-07	0.44	2.5	5.09	1	7.0	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
[redacted]17	5.0E-06	0.58	1.9	4.03	1	6.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
[redacted]50	5.0E-06	0.76	1.9	2.79	1	5.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
83.82	5.0E-06	0.84	1.7	3.27	1	5.6	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
84.15	5.0E-08	0.60	2.7	10.00	1	7.4	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
84.48	5.0E-04	-0.01	35.8	2.90	6	67.3	198.3	265.6	33.0	38	55.9	1.0	-0.20	19.2	41.2
84.81	5.0E-04	-0.01	49.7	2.06	7	92.4	97.6	190.0	24.2	38	65.0	1.0	-0.19	14.3	44.4
85.14	5.0E-08	-0.09	7.8	6.01	1	16.8	UnDef	UnDef	100.0	UnDef	UnDef	2.3	UnDef	UnDef	UnDef
85.46	5.0E-05	-0.11	6.2	2.43	4	13.8	55.0	68.8	67.3	30	30.0	1.7	0.02	5.4	10.8
85.79	5.0E-05	-0.12	5.3	3.00	1	12.2	UnDef	UnDef	100.0	30	30.0	1.4	0.02	UnDef	UnDef
86.12	5.0E-06	-0.17	3.7	3.11	1	9.4	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
86.45	5.0E-06	-0.22	2.8	3.73	1	7.7	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
86.78	5.0E-05	-0.10	5.8	2.20	4	13.2	52.8	66.0	67.3	30	30.0	1.6	0.03	5.2	10.3
87.11	5.0E-05	-0.09	6.2	1.74	4	14.0	56.0	70.0	61.8	30	30.0	1.7	0.03	5.5	11.0
87.43	5.0E-05	-0.08	6.9	3.04	4	15.2	60.8	76.1	68.0	30	30.0	2.0	-0.01	6.0	11.9

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
[redacted] No: 04-0401-1123-5533
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-4
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 08:29
CPT File: 717CP004.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 7.73 (ft): 25.4
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.16	19.4	0.14	0.72	-0.6	6	114.6	0.01	0.01	0.00	2.00	7.5	14.9	1.56	0.08
0.49	123.5	0.58	0.47	0.1	9	124.1	0.03	0.03	0.00	2.00	23.6	47.3	UnDef	0.00
0.82	207.9	1.79	0.86	-0.4	9	124.1	0.05	0.05	0.00	2.00	39.8	79.7	UnDef	0.00
1.15	258.8	3.88	1.50	-1.2	8	120.9	0.07	0.07	0.00	2.00	62.0	123.9	UnDef	0.00
[redacted]48	312.5	6.76	2.16	-6.7	8	120.9	0.09	0.09	0.00	2.00	74.8	149.6	UnDef	0.00
[redacted]80	338.7	8.40	2.48	-4.4	7	117.8	0.11	0.11	0.00	2.00	108.1	216.2	UnDef	0.00
2.13	340.1	9.20	2.71	-5.4	12	120.9	0.13	0.13	0.00	2.00	162.8	325.7	UnDef	0.00
2.46	315.6	8.06	2.55	-6.4	7	117.8	0.15	0.15	0.00	2.00	100.8	201.5	UnDef	0.00
2.79	270.6	6.16	2.28	-9.1	7	117.8	0.17	0.17	0.00	2.00	86.4	172.8	UnDef	0.00
3.12	232.5	5.70	2.45	-8.1	7	117.8	0.19	0.19	0.00	2.00	74.2	148.5	UnDef	0.00
3.44	201.3	4.93	2.45	-6.7	7	117.8	0.21	0.21	0.00	2.00	64.3	128.5	UnDef	0.00
3.77	178.0	4.63	2.60	-4.3	7	117.8	0.23	0.23	0.00	2.00	56.8	113.6	UnDef	0.00
4.10	161.4	4.23	2.62	-2.7	7	117.8	0.24	0.24	0.00	2.00	51.5	103.1	UnDef	0.00
4.43	153.7	3.59	2.34	-3.0	7	117.8	0.26	0.26	0.00	1.95	49.1	95.5	UnDef	0.00
4.76	147.1	3.33	2.26	-5.9	7	117.8	0.28	0.28	0.00	1.88	46.9	88.2	UnDef	0.00
5.09	146.6	3.43	2.34	-7.5	7	117.8	0.30	0.30	0.00	1.82	46.8	85.1	UnDef	0.00
5.41	149.3	3.72	2.49	-9.1	7	117.8	0.32	0.32	0.00	1.76	47.7	84.0	UnDef	0.00
5.74	144.1	3.48	2.41	-9.3	7	117.8	0.34	0.34	0.00	1.71	46.0	78.8	UnDef	0.00
6.07	162.3	3.40	2.10	-8.3	7	117.8	0.36	0.36	0.00	1.67	51.8	86.3	UnDef	0.00
6.40	202.1	4.34	2.15	-3.0	7	117.8	0.38	0.38	0.00	1.62	64.5	104.7	UnDef	0.00
6.73	179.4	3.24	1.81	-1.4	8	120.9	0.40	0.40	0.00	1.58	42.9	68.0	UnDef	0.00
7.05	160.0	1.88	1.17	0.1	8	120.9	0.42	0.42	0.00	1.54	38.3	59.2	UnDef	0.00
7.38	153.5	1.46	0.95	-0.1	9	124.1	0.44	0.44	0.00	1.51	29.4	44.4	UnDef	0.00
7.79	157.5	1.54	0.98	-0.1	9	124.1	0.46	0.46	0.00	1.47	30.2	44.3	UnDef	0.00
8.20	143.4	1.36	0.95	-0.5	9	124.1	0.49	0.49	0.00	1.43	27.5	39.2	UnDef	0.00
8.53	134.4	1.23	0.91	-0.2	9	124.1	0.51	0.51	0.00	1.40	25.7	36.0	UnDef	0.00
8.86	135.3	1.42	1.05	-0.4	8	120.9	0.53	0.53	0.00	1.37	32.4	44.5	UnDef	0.00
9.19	164.4	1.33	0.81	0.3	9	124.1	0.55	0.55	0.00	1.35	31.5	42.4	UnDef	0.00
9.51	178.9	3.58	2.00	-0.5	7	117.8	0.57	0.57	0.00	1.32	57.1	75.6	UnDef	0.00
9.84	140.1	4.29	3.06	-1.1	6	114.6	0.59	0.59	0.00	1.30	53.7	69.9	11.16	0.00
10.17	96.3	2.83	2.94	-1.7	6	114.6	0.61	0.61	0.00	1.28	36.9	47.3	7.65	0.00
10.50	92.8	2.13	2.30	-0.2	7	117.8	0.63	0.63	0.00	1.26	29.6	37.4	UnDef	0.41
10.83	97.5	2.20	2.25	-0.5	7	117.8	0.65	0.65	0.00	1.24	31.1	38.7	UnDef	0.44
11.15	109.2	2.61	2.39	-2.4	7	117.8	0.67	0.67	0.00	1.23	34.8	42.7	UnDef	0.00
11.48	115.3	2.86	2.48	-5.3	7	117.8	0.69	0.69	0.00	1.21	36.8	44.5	UnDef	0.00
[redacted]81	99.4	2.63	2.64	-5.4	6	114.6	0.70	0.70	0.00	1.19	38.1	45.4	7.90	0.00
[redacted]14	73.9	1.95	2.64	-6.1	6	114.6	0.72	0.72	0.00	1.18	28.3	33.3	5.85	0.32
12.47	48.6	1.02	2.10	-5.0	6	114.6	0.74	0.74	0.00	1.16	18.6	21.6	3.83	0.17
12.80	46.5	0.91	1.96	2.1	6	114.6	0.76	0.76	0.00	1.15	17.8	20.4	3.66	0.16

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
33.63	27.6	0.39	1.42	39.4	6	114.6	1.94	1.69	0.26	0.77	10.6	8.2	2.05	0.18
33.96	28.9	0.54	1.86	31.1	6	114.6	1.96	1.69	0.27	0.77	11.1	8.5	2.15	0.20
34.28	24.5	0.42	1.72	30.3	6	114.6	1.98	1.70	0.28	0.77	9.4	7.2	1.80	0.15
34.61	13.6	0.30	2.18	54.5	5	114.6	2.00	1.71	0.29	0.76	6.5	5.0	0.93	0.09
34.94	12.8	0.22	1.68	63.5	5	114.6	2.02	1.72	0.30	0.76	6.2	4.7	0.87	0.09
35.27	15.8	0.33	2.06	52.9	5	114.6	2.04	1.73	0.31	0.76	7.6	5.8	1.10	0.10
35.60	16.0	0.31	1.91	45.6	5	114.6	2.06	1.74	0.32	0.76	7.7	5.8	1.12	0.10
35.92	16.8	0.36	2.12	49.8	5	114.6	2.08	1.75	0.33	0.76	8.1	6.1	1.18	0.10
36.25	14.5	0.35	2.43	39.6	5	114.6	2.09	1.75	0.34	0.76	6.9	5.2	0.99	0.09
36.58	17.7	0.30	1.68	52.0	6	114.6	2.11	1.76	0.35	0.75	6.8	5.1	1.24	0.11
36.91	16.3	0.33	2.03	50.7	5	114.6	2.13	1.77	0.36	0.75	7.8	5.9	1.13	0.10
37.24	7.9	0.23	2.91	67.1	4	114.6	2.15	1.78	0.37	0.75	5.1	3.8	0.46	0.00
37.57	6.5	0.07	1.00	81.8	5	114.6	2.17	1.79	0.38	0.75	3.1	2.3	0.35	0.00
37.89	5.3	0.08	1.42	84.1	4	114.6	2.19	1.80	0.39	0.75	3.4	2.5	0.25	0.00
38.22	37.8	0.58	1.53	73.9	7	117.8	2.21	1.81	0.40	0.74	12.1	9.0	UnDef	0.32
38.55	210.0	1.04	0.50	-1.4	9	124.1	2.23	1.82	0.41	0.74	40.2	29.9	UnDef	0.43
38.88	248.7	1.48	0.60	-2.7	9	124.1	2.25	1.83	0.42	0.74	47.6	35.3	UnDef	0.00
39.21	239.1	1.68	0.70	14.4	9	124.1	2.27	1.84	0.43	0.74	45.8	33.8	UnDef	0.00
39.53	242.0	2.11	0.87	11.7	9	124.1	2.29	1.85	0.44	0.74	46.4	34.1	UnDef	0.00
39.86	275.0	2.93	1.06	7.4	9	124.1	2.31	1.86	0.45	0.73	52.7	38.7	UnDef	0.00
40.19	349.5	3.76	1.08	1.2	9	124.1	2.33	1.87	0.46	0.73	66.9	49.0	UnDef	0.00
40.52	341.2	6.72	1.97	7.0	8	120.9	2.35	1.88	0.47	0.73	81.7	59.7	UnDef	0.00
40.85	323.5	8.28	2.56	6.1	7	117.8	2.37	1.89	0.48	0.73	103.3	75.2	UnDef	0.00
41.17	219.4	6.51	2.97	0.9	7	117.8	2.39	1.89	0.49	0.73	70.0	50.9	UnDef	0.00
41.50	107.2	2.90	2.70	-6.2	6	114.6	2.41	1.90	0.50	0.72	41.1	29.8	8.38	0.00
41.83	39.8	1.34	3.37	-1.9	5	114.6	2.43	1.91	0.51	0.72	19.0	13.8	2.99	0.34
42.16	25.8	0.99	3.82	18.7	4	114.6	2.44	1.92	0.52	0.72	16.5	11.9	1.87	0.00
[redacted]49	27.0	0.76	2.81	44.4	5	114.6	2.46	1.93	0.53	0.72	12.9	9.3	1.96	0.16
[redacted]81	41.2	0.88	2.14	76.1	6	114.6	2.48	1.94	0.54	0.72	15.8	11.3	3.10	0.36
43.14	113.9	1.60	1.41	66.2	8	120.9	2.50	1.95	0.56	0.72	27.3	19.6	UnDef	0.27
43.47	101.7	1.88	1.85	5.0	7	117.8	2.52	1.96	0.57	0.72	32.5	23.2	UnDef	0.32
43.80	93.2	1.38	1.49	10.0	8	120.9	2.54	1.97	0.58	0.71	22.3	15.9	UnDef	0.24
44.13	103.3	0.80	0.77	13.9	8	120.9	2.56	1.97	0.59	0.71	24.7	17.6	UnDef	0.17
44.45	129.1	0.69	0.53	17.8	9	124.1	2.58	1.98	0.60	0.71	24.7	17.6	UnDef	0.19
44.78	84.5	0.96	1.14	18.1	8	120.9	2.60	1.99	0.61	0.71	20.2	14.3	UnDef	0.18
45.11	85.0	1.06	1.24	18.4	8	120.9	2.62	2.00	0.62	0.71	20.3	14.4	UnDef	0.19
45.44	86.4	0.83	0.96	16.7	8	120.9	2.64	2.01	0.63	0.70	20.7	14.6	UnDef	0.17
45.77	97.4	0.57	0.58	18.5	8	120.9	2.66	2.02	0.64	0.70	23.3	16.4	UnDef	0.15
46.10	110.0	0.38	0.35	19.4	9	124.1	2.68	2.03	0.65	0.70	21.1	14.8	UnDef	0.12
46.42	109.6	0.37	0.34	19.2	9	124.1	2.70	2.04	0.66	0.70	21.0	14.7	UnDef	0.12
46.75	90.5	0.34	0.37	19.6	8	120.9	2.72	2.05	0.67	0.70	21.7	15.1	UnDef	0.10
47.08	88.0	0.25	0.28	19.8	9	124.1	2.74	2.06	0.68	0.70	16.9	11.7	UnDef	0.10
47.41	107.0	0.32	0.30	21.1	9	124.1	2.76	2.07	0.69	0.69	20.5	14.2	UnDef	0.12
47.74	119.6	0.39	0.32	21.3	9	124.1	2.78	2.08	0.70	0.69	22.9	15.9	UnDef	0.13
48.06	152.5	0.48	0.31	21.6	9	124.1	2.80	2.09	0.71	0.69	29.2	20.2	UnDef	0.18
48.39	163.8	0.42	0.25	22.0	9	124.1	2.82	2.10	0.72	0.69	31.4	21.6	UnDef	0.21
48.72	194.1	0.59	0.30	22.4	9	124.1	2.84	2.11	0.73	0.69	37.2	25.6	UnDef	0.29
49.05	187.8	0.71	0.38	21.0	9	124.1	2.86	2.12	0.74	0.69	36.0	24.7	UnDef	0.27
49.38	139.9	0.60	0.43	22.0	9	124.1	2.88	2.13	0.75	0.68	26.8	18.3	UnDef	0.16
49.70	94.7	0.38	0.40	23.9	9	124.1	2.90	2.14	0.76	0.68	18.1	12.4	UnDef	0.10
50.03	57.8	0.23	0.39	23.5	8	120.9	2.92	2.15	0.77	0.68	13.8	9.4	UnDef	0.09
50.36	41.0	0.14	0.34	23.0	8	120.9	2.94	2.16	0.78	0.68	9.8	6.7	UnDef	0.00
50.69	30.3	0.10	0.31	25.2	7	117.8	2.96	2.17	0.79	0.68	9.7	6.6	UnDef	0.00
51.02	28.9	0.09	0.31	25.5	7	117.8	2.98	2.18	0.80	0.68	9.2	6.3	UnDef	0.00
51.34	28.6	0.09	0.30	26.0	7	117.8	3.00	2.19	0.81	0.68	9.1	6.2	UnDef	0.00
51.67	29.4	0.07	0.24	26.3	7	117.8	3.02	2.20	0.82	0.67	9.4	6.3	UnDef	0.00
52.00	29.3	0.07	0.24	26.6	7	117.8	3.04	2.21	0.83	0.67	9.3	6.3	UnDef	0.00
52.33	30.3	0.16	0.53	27.5	7	117.8	3.06	2.22	0.84	0.67	9.7	6.5	UnDef	0.15
[redacted]66	30.8	0.15	0.47	27.7	7	117.8	3.08	2.23	0.85	0.67	9.8	6.6	UnDef	0.13
[redacted]98	35.7	0.16	0.43	27.9	7	117.8	3.10	2.24	0.86	0.67	11.4	7.6	UnDef	0.00
53.31	28.0	0.34	1.20	33.3	6	114.6	3.12	2.25	0.87	0.67	10.7	7.2	1.99	0.15
53.64	24.0	0.42	1.75	37.7	6	114.6	3.14	2.25	0.88	0.67	9.2	6.1	1.67	0.12

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
53.97	21.7	0.33	1.52	32.0	6	114.6	3.16	2.26	0.89	0.66	8.3	5.5	1.48	0.11
54.30	22.4	0.29	1.30	31.6	6	114.6	3.17	2.27	0.90	0.66	8.6	5.7	1.54	0.12
54.63	24.8	0.30	1.21	31.9	6	114.6	3.19	2.28	0.91	0.66	9.5	6.3	1.73	0.13
54.95	31.5	0.28	0.89	32.0	7	117.8	3.21	2.29	0.92	0.66	10.0	6.6	UnDef	0.18
55.28	41.5	0.38	0.91	32.2	7	117.8	3.23	2.30	0.93	0.66	13.2	8.7	UnDef	0.20
55.61	36.6	0.54	1.47	37.2	7	117.8	3.25	2.31	0.94	0.66	11.7	7.7	UnDef	0.23
55.94	23.2	0.25	1.06	78.8	6	114.6	3.27	2.32	0.95	0.66	8.9	5.9	1.60	0.12
56.27	14.6	0.09	0.62	102.5	6	114.6	3.29	2.32	0.96	0.66	5.6	3.7	0.91	0.09
56.59	12.1	0.07	0.58	110.8	6	114.6	3.31	2.33	0.97	0.65	4.7	3.0	0.71	0.00
56.92	11.0	0.06	0.50	111.0	6	114.6	3.33	2.34	0.99	0.65	4.2	2.8	0.61	0.00
57.25	10.4	0.06	0.53	121.2	6	114.6	3.34	2.35	1.00	0.65	4.0	2.6	0.56	0.00
57.58	10.7	0.06	0.52	123.9	6	114.6	3.36	2.36	1.01	0.65	4.1	2.7	0.59	0.00
57.91	11.7	0.07	0.56	124.6	6	114.6	3.38	2.37	1.02	0.65	4.5	2.9	0.67	0.00
58.23	11.9	0.09	0.76	124.9	6	114.6	3.40	2.38	1.03	0.65	4.6	3.0	0.68	0.09
58.56	15.7	0.10	0.61	110.0	6	114.6	3.42	2.38	1.04	0.65	6.0	3.9	0.98	0.09
58.89	15.8	0.09	0.57	109.1	6	114.6	3.44	2.39	1.05	0.65	6.0	3.9	0.99	0.09
59.22	12.2	0.06	0.45	115.1	6	114.6	3.46	2.40	1.06	0.65	4.7	3.0	0.70	0.00
59.55	9.8	0.05	0.51	133.3	6	114.6	3.48	2.41	1.07	0.64	3.8	2.4	0.51	0.00
59.87	9.8	0.05	0.46	125.1	6	114.6	3.50	2.42	1.08	0.64	3.7	2.4	0.50	0.00
60.20	10.5	0.06	0.53	121.5	6	114.6	3.51	2.43	1.09	0.64	4.0	2.6	0.56	0.00
60.53	13.7	0.05	0.33	114.5	6	114.6	3.53	2.44	1.10	0.64	5.3	3.4	0.82	0.00
60.86	14.7	0.04	0.27	110.8	6	114.6	3.55	2.44	1.11	0.64	5.6	3.6	0.89	0.00
61.19	15.8	0.10	0.60	109.7	6	114.6	3.57	2.45	1.12	0.64	6.0	3.9	0.97	0.09
61.52	15.5	0.25	1.62	107.1	6	114.6	3.59	2.46	1.13	0.64	5.9	3.8	0.95	0.09
61.84	22.7	0.28	1.21	74.1	6	114.6	3.61	2.47	1.14	0.64	8.7	5.5	1.53	0.11
62.17	13.4	0.16	1.16	88.8	6	114.6	3.63	2.48	1.15	0.64	5.1	3.3	0.78	0.09
62.50	10.1	0.04	0.35	105.0	6	114.6	3.65	2.49	1.16	0.63	3.9	2.5	0.52	0.00
[redacted]83	12.1	0.07	0.58	105.3	6	114.6	3.66	2.50	1.17	0.63	4.6	2.9	0.67	0.00
[redacted]16	15.3	0.08	0.49	94.4	6	114.6	3.68	2.50	1.18	0.63	5.9	3.7	0.93	0.00
63.48	10.2	0.05	0.49	106.1	6	114.6	3.70	2.51	1.19	0.63	3.9	2.5	0.52	0.00
63.81	10.8	0.06	0.51	111.7	6	114.6	3.72	2.52	1.20	0.63	4.2	2.6	0.57	0.00
64.14	15.6	0.14	0.90	110.2	6	114.6	3.74	2.53	1.21	0.63	6.0	3.8	0.95	0.09
64.47	18.8	0.31	1.65	82.9	6	114.6	3.76	2.54	1.22	0.63	7.2	4.5	1.20	0.10
64.80	14.0	0.26	1.86	103.5	5	114.6	3.78	2.55	1.23	0.63	6.7	4.2	0.82	0.09
65.12	21.9	0.39	1.78	80.7	6	114.6	3.80	2.55	1.24	0.63	8.4	5.3	1.45	0.11
65.45	50.8	0.75	1.48	47.7	7	117.8	3.81	2.56	1.25	0.62	16.2	10.1	UnDef	0.43
65.78	64.3	0.99	1.54	45.3	7	117.8	3.83	2.57	1.26	0.62	20.5	12.8	UnDef	0.39
66.11	73.9	1.06	1.44	44.9	7	117.8	3.85	2.58	1.27	0.62	23.6	14.7	UnDef	0.28
66.44	75.8	1.17	1.54	44.7	7	117.8	3.87	2.59	1.28	0.62	24.2	15.0	UnDef	0.32
66.76	73.4	1.19	1.62	42.1	7	117.8	3.89	2.60	1.29	0.62	23.4	14.5	UnDef	0.37
67.09	36.7	0.71	1.93	92.8	6	114.6	3.91	2.61	1.30	0.62	14.1	8.7	2.62	0.21
67.42	32.6	0.70	2.14	125.5	6	114.6	3.93	2.62	1.31	0.62	12.5	7.7	2.29	0.17
67.75	65.3	1.11	1.70	66.3	7	117.8	3.95	2.63	1.32	0.62	20.8	12.9	UnDef	0.00
68.08	81.5	1.37	1.68	51.7	7	117.8	3.97	2.64	1.33	0.62	26.0	16.0	UnDef	0.37
68.40	80.8	1.37	1.69	45.7	7	117.8	3.99	2.64	1.34	0.61	25.8	15.9	UnDef	0.38
68.73	72.4	1.22	1.68	45.6	7	117.8	4.01	2.65	1.35	0.61	23.1	14.2	UnDef	0.44
69.06	69.0	1.03	1.50	45.7	7	117.8	4.03	2.66	1.36	0.61	22.0	13.5	UnDef	0.35
69.39	63.1	1.08	1.71	47.5	7	117.8	4.05	2.67	1.37	0.61	20.1	12.3	UnDef	0.00
69.72	72.4	1.18	1.63	50.5	7	117.8	4.07	2.68	1.38	0.61	23.1	14.1	UnDef	0.42
70.05	64.4	1.21	1.88	53.3	7	117.8	4.08	2.69	1.39	0.61	20.5	12.5	UnDef	0.00
70.37	58.0	1.19	2.06	55.9	7	117.8	4.10	2.70	1.40	0.61	18.5	11.3	UnDef	0.00
70.70	58.5	0.99	1.69	50.1	7	117.8	4.12	2.71	1.41	0.61	18.7	11.3	UnDef	0.00
71.03	60.8	0.77	1.27	49.2	7	117.8	4.14	2.72	1.43	0.61	19.4	11.8	UnDef	0.32
71.36	56.6	0.84	1.48	49.8	7	117.8	4.16	2.73	1.44	0.61	18.1	10.9	UnDef	0.00
71.69	42.3	0.78	1.84	65.0	7	117.8	4.18	2.74	1.45	0.60	13.5	8.2	UnDef	0.26
72.01	37.9	0.69	1.81	111.3	6	114.6	4.20	2.74	1.46	0.60	14.5	8.8	2.70	0.21
72.34	42.6	0.89	2.08	96.0	6	114.6	4.22	2.75	1.47	0.60	16.3	9.8	3.07	0.26
72.67	45.8	1.02	2.23	73.4	6	114.6	4.24	2.76	1.48	0.60	17.5	10.6	3.32	0.31
[redacted]00	40.1	0.78	1.95	61.1	6	114.6	4.26	2.77	1.49	0.60	15.4	9.2	2.87	0.23
[redacted]33	25.0	0.64	2.57	60.1	5	114.6	4.28	2.78	1.50	0.60	12.0	7.2	1.66	0.12
73.65	13.1	0.44	3.36	113.7	4	114.6	4.29	2.79	1.51	0.60	8.4	5.0	0.71	0.00
73.98	12.2	0.31	2.55	148.5	5	114.6	4.31	2.80	1.52	0.60	5.8	3.5	0.63	0.00

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5533
CPT File: 717CP004.COR

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
74.31	21.8	0.48	2.21	103.7	6	114.6	4.33	2.80	1.53	0.60	8.3	5.0	1.39	0.10
74.64	25.2	0.58	2.29	93.3	6	114.6	4.35	2.81	1.54	0.60	9.6	5.7	1.66	0.12
74.97	19.3	0.47	2.44	93.7	5	114.6	4.37	2.82	1.55	0.60	9.3	5.5	1.20	0.00
75.29	12.2	0.30	2.42	139.8	5	114.6	4.39	2.83	1.56	0.59	5.8	3.5	0.63	0.00
75.62	9.1	0.13	1.38	166.3	5	114.6	4.41	2.84	1.57	0.59	4.3	2.6	0.37	0.00
75.95	8.6	0.06	0.64	163.7	6	114.6	4.43	2.85	1.58	0.59	3.3	1.9	0.33	0.00
76.28	8.1	0.05	0.62	162.1	5	114.6	4.44	2.86	1.59	0.59	3.9	2.3	0.29	0.00
76.61	8.1	0.10	1.24	161.8	5	114.6	4.46	2.86	1.60	0.59	3.9	2.3	0.29	0.00
76.93	24.7	0.44	1.79	115.0	6	114.6	4.48	2.87	1.61	0.59	9.5	5.6	1.62	0.11
77.26	35.8	0.62	1.73	66.0	6	114.6	4.50	2.88	1.62	0.59	13.7	8.1	2.51	0.18
77.59	25.3	0.58	2.28	71.8	6	114.6	4.52	2.89	1.63	0.59	9.7	5.7	1.66	0.12
77.92	19.5	0.43	2.21	132.8	6	114.6	4.54	2.90	1.64	0.59	7.5	4.4	1.19	0.00
78.25	16.2	0.29	1.77	117.6	6	114.6	4.56	2.91	1.65	0.59	6.2	3.6	0.93	0.09
78.58	13.2	0.20	1.52	145.5	5	114.6	4.58	2.92	1.66	0.59	6.3	3.7	0.69	0.09
78.90	10.0	0.17	1.70	162.1	5	114.6	4.59	2.92	1.67	0.58	4.8	2.8	0.43	0.00
79.23	10.6	0.09	0.80	161.6	6	114.6	4.61	2.93	1.68	0.58	4.1	2.4	0.48	0.08
79.56	10.8	0.12	1.07	185.6	6	114.6	4.63	2.94	1.69	0.58	4.1	2.4	0.49	0.08
79.89	10.8	0.11	0.97	188.5	6	114.6	4.65	2.95	1.70	0.58	4.2	2.4	0.50	0.08
80.22	13.0	0.23	1.78	206.4	5	114.6	4.67	2.96	1.71	0.58	6.2	3.6	0.66	0.00
80.54	13.4	0.18	1.35	69.3	6	114.6	4.69	2.97	1.72	0.58	5.1	3.0	0.70	0.09
80.87	13.2	0.19	1.41	86.7	6	114.6	4.71	2.98	1.73	0.58	5.0	2.9	0.68	0.08
81.20	14.0	0.19	1.36	100.3	6	114.6	4.73	2.98	1.74	0.58	5.4	3.1	0.75	0.09
81.53	14.6	0.27	1.82	131.5	5	114.6	4.75	2.99	1.75	0.58	7.0	4.0	0.79	0.00
81.86	14.5	0.40	2.76	131.2	5	114.6	4.76	3.00	1.76	0.58	6.9	4.0	0.78	0.00
82.18	13.6	0.35	2.54	134.3	5	114.6	4.78	3.01	1.77	0.58	6.5	3.8	0.71	0.00
82.51	13.6	0.24	1.74	134.8	5	114.6	4.80	3.02	1.78	0.58	6.5	3.7	0.70	0.00
82.84	12.1	0.15	1.24	128.3	6	114.6	4.82	3.03	1.79	0.57	4.6	2.7	0.58	0.08
[redacted]17	14.4	0.21	1.43	126.6	6	114.6	4.84	3.04	1.80	0.57	5.5	3.2	0.76	0.09
[redacted]50	21.6	0.50	2.32	127.7	6	114.6	4.86	3.04	1.81	0.57	8.3	4.7	1.34	0.00
83.82	28.0	0.88	3.15	124.1	5	114.6	4.88	3.05	1.82	0.57	13.4	7.7	1.85	0.00
84.15	34.5	1.59	4.62	202.0	3	111.4	4.90	3.06	1.83	0.57	33.1	18.9	2.37	0.00
84.48	74.3	1.67	2.25	71.4	7	117.8	4.91	3.07	1.84	0.57	23.7	13.5	UnDef	0.00
84.81	83.9	2.05	2.44	15.7	7	117.8	4.93	3.08	1.86	0.57	26.8	15.3	UnDef	0.00
85.14	77.3	2.13	2.75	11.6	6	114.6	4.95	3.09	1.87	0.57	29.6	16.9	5.79	0.00
85.46	90.3	1.71	1.90	9.3	7	117.8	4.97	3.10	1.88	0.57	28.8	16.4	UnDef	0.00
85.79	110.1	1.40	1.27	5.3	8	120.9	4.99	3.11	1.89	0.57	26.4	15.0	UnDef	0.29
86.12	103.6	0.80	0.77	-3.6	8	120.9	5.01	3.11	1.90	0.57	24.8	14.1	UnDef	0.18
86.45	93.7	0.87	0.93	-5.2	8	120.9	5.03	3.12	1.91	0.57	22.4	12.7	UnDef	0.20
86.78	78.2	0.60	0.77	-3.2	8	120.9	5.05	3.13	1.92	0.56	18.7	10.6	UnDef	0.17
87.11	62.2	0.49	0.78	0.8	8	120.9	5.07	3.14	1.93	0.56	14.9	8.4	UnDef	0.19
87.43	60.0	0.46	0.77	5.6	8	120.9	5.09	3.15	1.94	0.56	14.4	8.1	UnDef	0.20
87.76	57.0	0.38	0.67	7.6	8	120.9	5.11	3.16	1.95	0.56	13.7	7.7	UnDef	0.18
88.09	48.6	0.40	0.82	8.8	7	117.8	5.13	3.17	1.96	0.56	15.5	8.7	UnDef	0.30
88.42	42.1	0.75	1.77	4.9	7	117.8	5.15	3.18	1.97	0.56	13.4	7.5	UnDef	0.22
88.75	51.6	0.64	1.23	-0.3	7	117.8	5.17	3.19	1.98	0.56	16.5	9.2	UnDef	0.34
89.07	56.6	0.34	0.59	-3.5	8	120.9	5.19	3.20	1.99	0.56	13.5	7.6	UnDef	0.16
89.40	61.7	0.40	0.64	-1.4	8	120.9	5.21	3.21	2.00	0.56	14.8	8.3	UnDef	0.16
89.73	74.4	0.54	0.72	1.9	8	120.9	5.23	3.22	2.01	0.56	17.8	9.9	UnDef	0.16
90.06	82.0	0.57	0.70	5.8	8	120.9	5.25	3.23	2.02	0.56	19.6	10.9	UnDef	0.16
90.39	82.3	0.60	0.73	9.5	8	120.9	5.27	3.24	2.03	0.56	19.7	10.9	UnDef	0.16
90.71	83.7	0.73	0.87	12.9	8	120.9	5.29	3.25	2.04	0.55	20.0	11.1	UnDef	0.19
91.04	83.4	0.54	0.65	13.5	8	120.9	5.31	3.26	2.05	0.55	20.0	11.1	UnDef	0.15
91.37	65.4	0.69	1.05	30.5	8	120.9	5.33	3.27	2.06	0.55	15.6	8.7	UnDef	0.33
91.70	68.9	0.70	1.02	40.3	8	120.9	5.35	3.28	2.07	0.55	16.5	9.1	UnDef	0.28
92.03	90.7	0.66	0.73	8.9	8	120.9	5.37	3.29	2.08	0.55	21.7	12.0	UnDef	0.17
92.35	115.0	0.98	0.85	11.4	8	120.9	5.39	3.30	2.09	0.55	27.5	15.2	UnDef	0.21
92.68	95.8	1.36	1.42	16.3	8	120.9	5.41	3.31	2.10	0.55	22.9	12.6	UnDef	0.37
93.01	60.7	0.79	1.30	24.4	7	117.8	5.43	3.31	2.11	0.55	19.4	10.6	UnDef	0.00
[redacted]34	48.5	0.26	0.54	22.1	8	120.9	5.45	3.32	2.12	0.55	11.6	6.4	UnDef	0.20
[redacted].67	23.7	0.26	1.08	36.0	6	114.6	5.46	3.33	2.13	0.55	9.1	5.0	1.46	0.10
93.99	20.3	0.10	0.49	54.2	7	117.8	5.48	3.34	2.14	0.55	6.5	3.5	UnDef	0.00
94.32	15.8	0.15	0.95	77.6	6	114.6	5.50	3.35	2.15	0.55	6.0	3.3	0.82	0.09

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5533
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-4
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 08:29
CPT File: 717CP004.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 7.73 (ft): 25.4
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-05	0.00	1000.0	0.72	10	37.3	0.0	37.3	0.0	50	86.6	10.0	-0.37	0.0	14.9
0.49	5.0E-02	0.00	1000.0	0.47	10	236.4	0.0	236.4	0.0	50	95.0	1.0	-0.33	0.0	47.3
0.82	5.0E-02	0.00	1000.0	0.86	10	398.3	0.0	398.3	0.0	50	95.0	1.0	-0.39	0.0	79.7
1.15	5.0E-03	0.00	1000.0	1.50	12	495.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.46	UnDef	UnDef
1.48	5.0E-03	0.00	1000.0	2.16	12	598.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.53	UnDef	UnDef
1.80	5.0E-04	0.00	1000.0	2.48	12	648.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
2.13	1.0E-15	0.00	1000.0	2.71	12	651.4	UnDef	UnDef	0.0	50	95.0	1.0	-0.59	UnDef	UnDef
2.46	5.0E-04	0.00	1000.0	2.56	12	604.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
2.79	5.0E-04	0.00	1000.0	2.28	12	518.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.54	UnDef	UnDef
3.12	5.0E-04	0.00	1000.0	2.46	12	445.4	UnDef	UnDef	0.0	50	95.0	1.0	-0.56	UnDef	UnDef
3.44	5.0E-04	0.00	976.4	2.45	12	385.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.56	UnDef	UnDef
3.77	5.0E-04	0.00	789.0	2.60	12	340.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.55	UnDef	UnDef
4.10	5.0E-04	0.00	659.0	2.62	12	309.2	UnDef	UnDef	0.0	50	95.0	1.0	-0.53	UnDef	UnDef
4.43	5.0E-04	0.00	581.3	2.34	12	292.8	UnDef	UnDef	0.0	50	95.0	1.0	-0.49	UnDef	UnDef
4.76	5.0E-04	0.00	518.2	2.27	12	270.4	UnDef	UnDef	0.0	48	95.0	1.0	-0.47	UnDef	UnDef
5.09	5.0E-04	0.00	483.5	2.34	12	260.8	UnDef	UnDef	0.0	48	94.7	1.0	-0.47	UnDef	UnDef
5.41	5.0E-04	0.00	462.9	2.50	12	257.6	UnDef	UnDef	0.0	48	94.4	1.0	-0.48	UnDef	UnDef
5.74	5.0E-04	0.00	421.4	2.42	12	241.4	UnDef	UnDef	0.0	48	92.5	1.0	-0.46	UnDef	UnDef
6.07	5.0E-04	0.00	449.2	2.10	12	264.5	UnDef	UnDef	0.0	48	95.0	1.0	-0.44	UnDef	UnDef
6.40	5.0E-04	0.00	531.0	2.15	12	320.9	UnDef	UnDef	0.0	48	95.0	1.0	-0.46	UnDef	UnDef
6.73	5.0E-03	0.00	448.1	1.81	9	277.8	7.0	284.8	5.9	48	95.0	1.0	-0.41	1.1	69.0
7.05	5.0E-03	0.00	380.6	1.18	9	241.8	0.0	241.8	3.8	48	92.6	1.0	-0.33	0.0	59.2
7.38	5.0E-02	0.00	348.5	0.96	9	226.7	0.0	226.7	3.1	48	90.7	1.0	-0.30	0.0	44.4
7.79	5.0E-02	0.00	337.9	0.98	9	226.1	0.0	226.1	3.3	48	90.7	1.0	-0.30	0.0	44.3
8.20	5.0E-02	0.00	291.5	0.95	9	200.4	0.0	200.4	3.8	46	87.2	1.0	-0.28	0.0	39.2
8.53	5.0E-02	0.00	262.3	0.92	9	184.1	0.0	184.1	4.1	46	84.8	1.0	-0.27	0.0	36.0
8.86	5.0E-03	0.00	254.0	1.06	9	181.8	0.0	181.8	5.0	46	84.4	1.0	-0.28	0.0	44.5
9.19	5.0E-02	0.00	297.4	0.81	9	216.7	0.0	216.7	2.9	46	89.4	1.0	-0.27	0.0	42.4
9.51	5.0E-04	0.00	312.6	2.01	9	231.8	22.3	254.1	8.3	46	91.4	1.0	-0.39	4.4	80.0
9.84	5.0E-05	0.00	236.7	3.07	12	178.6	UnDef	UnDef	0.0	46	83.9	10.0	-0.45	UnDef	UnDef
10.17	5.0E-05	0.00	157.2	2.96	7	120.8	52.3	173.0	16.3	44	72.7	10.0	-0.39	11.0	58.3
10.50	5.0E-04	0.00	146.8	2.31	7	114.6	38.3	152.8	14.4	44	71.2	1.0	-0.33	6.9	44.3
10.83	5.0E-04	0.00	149.7	2.27	7	118.6	37.7	156.3	14.0	44	72.2	1.0	-0.33	6.9	45.6
11.15	5.0E-04	0.00	162.9	2.41	7	130.9	41.2	172.0	14.0	44	75.0	1.0	-0.35	7.5	50.2
11.48	5.0E-04	0.00	167.2	2.50	7	136.3	43.8	180.1	14.1	44	76.2	1.0	-0.36	8.0	52.4
11.81	5.0E-05	0.00	140.1	2.66	7	115.9	49.1	165.1	16.1	44	71.5	10.0	-0.35	10.4	55.8
12.14	5.0E-05	0.00	101.1	2.67	7	85.0	51.4	136.4	19.1	42	62.6	10.0	-0.31	10.3	43.5
12.47	5.0E-05	0.00	64.5	2.14	7	55.2	43.4	98.6	21.5	40	50.2	10.0	-0.23	8.2	29.8
12.80	5.0E-05	0.00	60.1	1.99	7	52.2	41.4	93.5	21.6	40	48.6	10.0	-0.21	7.8	28.2

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-04	0.00	77.2	1.78	7	67.6	34.6	102.2	17.7	40	56.1	1.0	-0.22	5.9	28.0
13.45	5.0E-05	0.00	47.9	1.92	7	42.8	43.8	86.6	23.9	38	42.9	10.0	-0.18	7.8	24.5
13.78	5.0E-05	0.01	26.0	1.67	7	23.9	55.4	79.4	31.2	34	30.0	10.0	-0.10	7.3	16.6
14.11	5.0E-05	0.03	21.4	1.04	7	20.0	37.6	57.6	29.4	34	30.0	10.0	-0.04	5.4	13.2
14.44	5.0E-05	0.04	20.7	1.56	6	19.7	69.1	88.8	34.2	34	30.0	10.0	-0.07	7.3	15.0
14.76	5.0E-05	0.02	24.2	1.85	6	23.1	73.5	96.6	33.5	34	30.0	10.0	-0.10	8.2	17.2
15.09	5.0E-06	0.07	14.6	2.87	6	14.5	57.9	72.3	49.0	UnDef	UnDef	5.8	UnDef	7.1	14.2
15.42	5.0E-05	0.04	23.5	2.15	6	22.9	91.7	114.6	35.8	34	30.0	10.0	-0.11	9.0	18.0
15.75	5.0E-06	0.03	17.6	2.48	6	17.5	70.2	87.7	43.1	UnDef	UnDef	7.7	UnDef	8.6	17.2
16.08	5.0E-05	0.01	18.2	1.77	6	18.3	73.3	91.6	38.0	32	30.0	8.1	-0.07	7.2	14.3
16.40	5.0E-05	0.06	14.4	1.77	6	14.8	59.2	73.9	42.6	32	30.0	5.6	-0.04	5.8	11.6
16.73	5.0E-05	0.05	12.0	1.10	6	12.6	50.6	63.2	40.6	30	30.0	4.3	0.01	4.9	9.9
17.06	5.0E-06	0.22	4.9	1.62	4	5.8	23.2	29.0	67.3	UnDef	UnDef	1.3	UnDef	2.8	5.7
17.39	5.0E-06	0.13	10.9	2.24	6	11.8	47.2	58.9	51.7	UnDef	UnDef	3.7	UnDef	5.8	11.5
17.72	5.0E-05	0.01	25.1	1.17	7	26.0	41.6	67.6	28.0	34	30.0	10.0	-0.07	6.4	16.6
18.04	5.0E-06	0.05	15.8	2.63	6	16.9	67.7	84.6	46.1	UnDef	UnDef	6.5	UnDef	8.3	16.6
18.37	5.0E-06	0.03	17.4	2.53	6	18.7	74.8	93.5	43.6	UnDef	UnDef	7.6	UnDef	9.1	18.3
18.70	5.0E-05	0.03	17.1	2.21	6	18.6	74.5	93.1	42.0	32	30.0	7.4	-0.08	7.3	14.6
19.03	5.0E-07	0.08	8.6	3.47	1	10.0	UnDef	UnDef	100.0	UnDef	UnDef	2.7	UnDef	UnDef	UnDef
19.36	5.0E-06	0.09	5.6	2.19	4	6.9	27.6	34.6	68.1	UnDef	UnDef	1.5	UnDef	3.4	6.8
19.68	1.0E-07	0.42	2.9	1.77	4	4.2	16.6	20.8	84.5	UnDef	UnDef	0.8	UnDef	2.0	4.1
20.01	1.0E-07	0.49	2.7	1.91	4	3.9	15.6	19.5	89.1	UnDef	UnDef	0.8	UnDef	1.9	3.8
20.34	5.0E-07	0.42	3.1	2.68	1	4.4	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
20.67	5.0E-05	0.06	11.4	1.59	6	13.4	53.5	66.9	46.0	30	30.0	4.0	-0.01	5.2	10.5
21.00	5.0E-06	0.10	7.0	2.04	4	8.7	34.6	43.3	61.2	UnDef	UnDef	2.0	UnDef	4.2	8.5
21.33	5.0E-07	0.35	3.6	2.00	4	5.0	20.2	25.2	79.8	UnDef	UnDef	1.0	UnDef	3.3	6.6
21.65	1.0E-07	0.44	2.8	1.67	4	4.2	16.9	21.2	84.8	UnDef	UnDef	0.8	UnDef	2.1	4.1
[redacted]98	1.0E-07	0.37	3.2	1.45	4	4.7	18.8	23.5	78.4	UnDef	UnDef	0.9	UnDef	2.3	4.6
[redacted]31	1.0E-07	0.42	2.7	1.96	4	4.2	16.7	20.9	88.6	UnDef	UnDef	0.8	UnDef	2.0	4.1
22.64	1.0E-07	0.12	4.2	1.09	4	5.8	23.3	29.1	66.6	UnDef	UnDef	1.1	UnDef	2.8	5.7
22.97	1.0E-07	0.37	3.0	1.37	4	4.5	18.1	22.7	79.9	UnDef	UnDef	0.8	UnDef	2.2	4.4
23.29	5.0E-07	0.28	4.3	2.60	4	6.0	24.0	30.0	79.2	UnDef	UnDef	1.1	UnDef	3.9	7.8
23.62	5.0E-05	0.02	12.5	1.98	6	15.5	62.1	77.6	46.9	30	30.0	4.6	-0.04	6.1	12.2
23.95	5.0E-06	0.08	6.7	2.94	4	8.9	35.7	44.6	68.1	UnDef	UnDef	1.9	UnDef	4.4	8.7
24.28	5.0E-06	0.19	6.0	2.61	4	8.1	32.4	40.5	69.4	UnDef	UnDef	1.6	UnDef	4.0	7.9
24.61	5.0E-05	0.04	13.0	2.10	6	16.4	65.5	81.9	47.0	30	30.0	4.8	-0.04	6.4	12.8
24.93	5.0E-06	0.05	9.4	2.54	4	12.2	49.0	61.2	57.1	UnDef	UnDef	3.0	UnDef	6.0	12.0
25.26	5.0E-06	0.17	5.6	2.62	4	7.8	31.3	39.1	71.3	UnDef	UnDef	1.5	UnDef	3.8	7.6
25.59	5.0E-07	0.39	3.1	3.44	1	4.9	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
25.92	5.0E-06	0.22	3.1	1.71	4	5.0	19.9	24.8	81.8	UnDef	UnDef	0.9	UnDef	2.4	4.9
26.25	1.0E-07	0.41	2.8	1.29	4	4.6	18.5	23.1	80.8	UnDef	UnDef	0.8	UnDef	2.3	4.5
26.57	1.0E-07	0.36	3.2	1.05	4	5.0	20.2	25.2	74.3	UnDef	UnDef	0.9	UnDef	2.5	4.9
26.90	1.0E-07	0.45	2.6	1.39	4	4.4	17.6	22.0	84.6	UnDef	UnDef	0.8	UnDef	2.2	4.3
27.23	1.0E-07	0.46	2.6	1.16	4	4.3	17.4	21.7	82.8	UnDef	UnDef	0.7	UnDef	2.1	4.3
27.56	1.0E-07	0.45	2.6	0.99	1	4.5	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
27.89	1.0E-07	0.52	2.3	1.13	1	4.1	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
28.21	1.0E-07	0.47	2.6	1.01	1	4.4	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
28.54	1.0E-07	0.38	3.1	1.04	4	5.1	20.3	25.3	75.2	UnDef	UnDef	0.8	UnDef	2.5	5.0
28.87	5.0E-06	0.27	3.7	1.80	4	5.9	23.6	29.5	77.0	UnDef	UnDef	1.0	UnDef	2.9	5.8
29.20	5.0E-06	0.10	5.9	1.47	4	8.5	34.1	42.6	61.0	UnDef	UnDef	1.6	UnDef	4.2	8.3
29.53	5.0E-06	0.22	4.0	2.30	4	6.2	25.0	31.2	79.2	UnDef	UnDef	1.1	UnDef	3.1	6.1
29.86	1.0E-07	0.48	2.5	1.67	4	4.4	17.5	21.9	89.7	UnDef	UnDef	0.7	UnDef	2.1	4.3
30.18	5.0E-06	0.26	3.8	0.91	4	6.0	24.1	30.2	67.2	UnDef	UnDef	1.0	UnDef	3.0	5.9
30.59	5.0E-06	0.31	3.5	1.71	4	5.7	23.0	28.7	78.1	UnDef	UnDef	0.9	UnDef	2.8	5.6
31.00	1.0E-07	0.46	2.7	1.37	4	4.7	19.0	23.7	83.4	UnDef	UnDef	0.8	UnDef	2.3	4.6
31.33	1.0E-07	0.44	2.6	1.07	4	4.6	18.5	23.1	81.3	UnDef	UnDef	0.7	UnDef	2.3	4.5
31.66	1.0E-07	0.66	1.9	1.32	4	3.7	14.9	18.6	96.2	UnDef	UnDef	0.6	UnDef	1.8	3.6
31.99	1.0E-07	0.52	2.4	1.68	4	4.4	17.5	21.9	91.3	UnDef	UnDef	0.7	UnDef	2.1	4.3
[redacted]32	5.0E-06	0.22	3.6	1.34	4	6.0	23.9	29.8	73.7	UnDef	UnDef	1.0	UnDef	2.9	5.8
[redacted]64	5.0E-06	0.28	3.5	1.30	4	5.8	23.2	29.1	74.5	UnDef	UnDef	0.9	UnDef	2.8	5.7
32.97	1.0E-07	0.45	2.6	1.27	4	4.7	18.9	23.6	83.7	UnDef	UnDef	0.7	UnDef	2.3	4.6
33.30	5.0E-07	0.57	2.2	2.55	1	4.3	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-05	0.04	15.2	1.52	6	20.8	83.3	104.1	39.6	32	30.0	6.2	-0.04	8.2	16.3
33.96	5.0E-05	0.03	15.9	1.99	6	21.7	86.8	108.5	42.1	32	30.0	6.6	-0.06	8.5	17.0
34.28	5.0E-05	0.03	13.2	1.87	6	18.4	73.4	91.8	45.0	32	30.0	5.0	-0.04	7.2	14.4
34.61	5.0E-06	0.12	6.8	2.56	4	10.2	40.6	50.8	65.6	UnDef	UnDef	1.9	UnDef	5.0	9.9
34.94	5.0E-06	0.16	6.3	1.99	4	9.6	38.3	47.9	63.5	UnDef	UnDef	1.8	UnDef	4.7	9.4
35.27	5.0E-06	0.10	8.0	2.36	4	11.8	47.1	58.9	60.0	UnDef	UnDef	2.4	UnDef	5.8	11.5
35.60	5.0E-06	0.08	8.0	2.19	4	11.9	47.6	59.5	58.6	UnDef	UnDef	2.4	UnDef	5.8	11.6
35.92	5.0E-06	0.08	8.4	2.41	4	12.5	49.8	62.3	58.9	UnDef	UnDef	2.6	UnDef	6.1	12.2
36.25	5.0E-06	0.07	7.1	2.84	4	10.7	42.8	53.4	66.2	UnDef	UnDef	2.0	UnDef	5.2	10.5
36.58	5.0E-05	0.08	8.8	1.90	6	13.0	52.0	65.0	54.3	30	30.0	2.7	0.01	5.1	10.2
36.91	5.0E-06	0.09	8.0	2.33	4	12.0	48.0	59.9	59.7	UnDef	UnDef	2.4	UnDef	5.9	11.7
37.24	5.0E-07	0.30	3.2	4.00	1	5.8	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
37.57	5.0E-06	0.50	2.4	1.51	4	4.7	19.0	23.7	88.7	UnDef	UnDef	0.7	UnDef	2.3	4.6
37.89	5.0E-07	0.72	1.7	2.43	1	3.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
38.22	5.0E-04	0.05	19.7	1.62	6	27.5	110.1	137.6	35.5	34	30.3	1.0	-0.07	9.0	18.0
38.55	5.0E-02	0.00	114.5	0.50	9	152.5	3.5	156.0	5.8	42	79.4	1.0	-0.14	0.4	30.3
38.88	5.0E-02	0.00	135.0	0.60	9	180.1	2.9	183.0	5.6	44	84.1	1.0	-0.17	0.4	35.6
39.21	5.0E-02	0.00	129.0	0.71	9	172.7	8.3	181.0	6.7	44	82.9	1.0	-0.18	1.0	34.8
39.53	5.0E-02	0.00	129.9	0.88	9	174.3	14.4	188.8	7.9	44	83.2	1.0	-0.20	1.7	35.8
39.86	5.0E-02	0.00	146.9	1.07	9	197.5	18.8	216.3	8.3	44	86.8	1.0	-0.23	2.2	40.9
40.19	5.0E-02	0.00	186.0	1.08	9	250.4	12.8	263.2	6.8	44	93.6	1.0	-0.25	1.5	50.5
40.52	5.0E-03	0.00	180.6	1.98	9	243.8	50.7	294.5	11.4	44	92.8	1.0	-0.33	7.2	66.9
40.85	5.0E-04	0.00	170.3	2.58	7	230.6	76.1	306.6	14.3	44	91.2	1.0	-0.37	13.8	89.0
41.17	5.0E-04	0.00	114.6	3.00	7	156.0	95.6	251.6	19.2	42	80.0	1.0	-0.35	15.9	66.8
41.50	5.0E-05	-0.01	55.1	2.76	7	76.0	100.7	176.7	26.3	40	59.4	10.0	-0.25	16.5	46.2
41.83	5.0E-06	-0.02	19.5	3.58	6	28.1	112.6	140.7	46.6	UnDef	UnDef	9.1	UnDef	13.8	27.5
42.16	5.0E-07	0.00	12.2	4.22	1	18.2	UnDef	UnDef	100.0	UnDef	UnDef	4.4	UnDef	UnDef	UnDef
[illegible]49	5.0E-06	0.03	12.7	3.09	4	19.0	76.0	95.0	53.2	UnDef	UnDef	4.7	UnDef	9.3	18.6
[illegible]81	5.0E-05	0.05	20.0	2.28	6	28.9	115.8	144.7	39.5	34	31.7	9.4	-0.10	11.3	22.7
43.14	5.0E-03	0.01	57.2	1.44	7	79.9	47.3	127.2	18.9	40	60.8	1.0	-0.17	5.9	25.5
43.47	5.0E-04	0.00	50.7	1.90	7	71.2	66.5	137.7	23.1	38	57.5	1.0	-0.19	10.1	33.3
43.80	5.0E-03	0.00	46.1	1.53	7	65.0	54.4	119.4	22.1	38	54.9	1.0	-0.15	6.3	22.3
44.13	5.0E-03	0.00	51.0	0.79	7	71.9	27.8	99.7	15.4	38	57.8	1.0	-0.10	3.7	21.3
44.45	5.0E-02	0.00	63.7	0.54	9	89.7	16.7	106.4	10.9	40	64.2	1.0	-0.09	1.9	19.5
44.78	5.0E-03	0.00	41.1	1.17	7	58.6	44.1	102.7	21.1	38	51.9	1.0	-0.12	5.3	19.6
45.11	5.0E-03	0.00	41.1	1.28	7	58.7	48.2	107.0	21.9	38	52.0	1.0	-0.12	5.6	20.0
45.44	5.0E-03	0.00	41.6	0.99	7	59.6	37.7	97.3	19.5	38	52.4	1.0	-0.10	4.7	19.2
45.77	5.0E-03	0.00	46.8	0.60	9	67.0	22.9	89.9	14.5	38	55.8	1.0	-0.07	3.1	19.5
46.10	5.0E-02	0.00	52.8	0.36	9	75.5	0.0	75.5	5.0	40	59.2	1.0	-0.04	0.0	14.8
46.42	5.0E-02	0.00	52.3	0.35	9	75.0	0.0	75.0	5.0	38	59.0	1.0	-0.04	0.0	14.7
46.75	5.0E-03	0.00	42.7	0.38	9	61.8	0.0	61.8	5.0	38	53.5	1.0	-0.03	0.0	15.1
47.08	5.0E-02	0.00	41.3	0.29	9	60.0	0.0	60.0	5.0	38	52.6	1.0	-0.01	0.0	11.7
47.41	5.0E-02	0.00	50.3	0.30	9	72.7	0.0	72.7	5.0	38	58.1	1.0	-0.03	0.0	14.2
47.74	5.0E-02	0.00	56.1	0.33	9	81.1	0.0	81.1	5.0	40	61.3	1.0	-0.04	0.0	15.9
48.06	5.0E-02	0.00	71.5	0.32	9	103.2	0.0	103.2	5.0	40	68.2	1.0	-0.06	0.0	20.2
48.39	5.0E-02	0.00	76.5	0.26	9	110.5	0.0	110.5	5.0	40	70.1	1.0	-0.05	0.0	21.6
48.72	5.0E-02	0.00	90.5	0.31	9	130.6	0.0	130.6	5.0	42	74.9	1.0	-0.08	0.0	25.6
49.05	5.0E-02	0.00	87.1	0.38	9	126.1	0.0	126.1	5.0	42	73.9	1.0	-0.09	0.0	24.7
49.38	5.0E-02	0.00	64.2	0.44	9	93.7	0.0	93.7	5.0	40	65.4	1.0	-0.08	0.0	18.3
49.70	5.0E-02	0.00	42.8	0.41	9	63.3	0.0	63.3	5.0	38	54.2	1.0	-0.04	0.0	12.4
50.03	5.0E-03	0.00	25.5	0.41	7	38.5	0.0	38.5	5.0	34	39.9	1.0	0.01	0.0	9.4
50.36	5.0E-03	0.00	17.6	0.37	7	27.3	0.0	27.3	5.0	32	30.1	1.0	0.05	0.0	6.7
50.69	5.0E-04	0.00	12.6	0.35	7	20.1	0.0	20.1	5.0	30	30.0	1.0	0.08	0.0	6.6
51.02	5.0E-04	0.00	11.9	0.35	7	19.2	0.0	19.2	5.0	30	30.0	1.0	0.09	0.0	6.3
51.34	5.0E-04	0.00	11.7	0.33	7	18.9	0.0	18.9	5.0	30	30.0	1.0	0.09	0.0	6.2
51.67	5.0E-04	0.00	12.0	0.27	7	19.4	0.0	19.4	5.0	30	30.0	1.0	0.11	0.0	6.3
52.00	5.0E-04	0.00	11.9	0.27	7	19.3	0.0	19.3	5.0	30	30.0	1.0	0.11	0.0	6.3
52.33	5.0E-04	0.00	12.3	0.59	7	19.9	71.6	91.5	34.3	30	30.0	1.0	0.05	6.2	12.7
[illegible]66	5.0E-04	0.00	12.5	0.52	7	20.2	61.0	81.3	33.1	30	30.0	1.0	0.06	5.8	12.4
[illegible]98	5.0E-04	0.00	14.6	0.48	7	23.4	0.0	23.4	5.0	32	30.0	1.0	0.05	0.0	7.6
53.31	5.0E-05	0.01	11.1	1.35	6	18.3	73.1	91.3	44.7	30	30.0	3.8	0.00	7.2	14.3
53.64	5.0E-05	0.01	9.3	2.01	6	15.7	62.7	78.4	53.9	30	30.0	2.9	-0.01	6.1	12.3

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
53.97	5.0E-05	0.01	8.2	1.78	4	14.1	56.5	70.6	55.1	30	30.0	2.5	0.01	5.5	11.1
54.30	5.0E-05	0.00	8.5	1.51	6	14.5	58.1	72.7	52.2	30	30.0	2.6	0.02	5.7	11.4
54.63	5.0E-05	0.00	9.5	1.39	6	16.1	64.4	80.5	48.4	30	30.0	3.0	0.01	6.3	12.6
54.95	5.0E-04	0.00	12.3	0.99	6	20.3	81.4	101.7	39.0	30	30.0	1.0	0.01	6.6	13.3
55.28	5.0E-04	0.00	16.6	0.98	7	26.8	81.7	108.4	33.2	32	30.0	1.0	-0.02	7.8	16.5
55.61	5.0E-04	0.01	14.5	1.61	6	23.6	94.3	117.9	41.3	32	30.0	1.0	-0.04	7.7	15.4
55.94	5.0E-05	0.08	8.6	1.23	6	14.9	59.8	74.7	49.1	30	30.0	2.7	0.04	5.9	11.7
56.27	5.0E-05	0.20	4.9	0.80	4	9.4	37.6	47.0	58.4	30	30.0	1.3	0.13	3.7	7.4
56.59	5.0E-05	0.28	3.8	0.79	1	7.8	UnDef	UnDef	100.0	30	30.0	1.0	0.17	UnDef	UnDef
56.92	5.0E-05	0.32	3.3	0.72	1	7.0	UnDef	UnDef	100.0	30	30.0	0.9	0.19	UnDef	UnDef
57.25	5.0E-05	0.40	3.0	0.78	1	6.6	UnDef	UnDef	100.0	30	30.0	0.8	0.20	UnDef	UnDef
57.58	5.0E-05	0.39	3.1	0.75	1	6.8	UnDef	UnDef	100.0	30	30.0	0.9	0.20	UnDef	UnDef
57.91	5.0E-05	0.34	3.5	0.78	1	7.5	UnDef	UnDef	100.0	30	30.0	0.9	0.18	UnDef	UnDef
58.23	5.0E-05	0.34	3.6	1.06	4	7.6	30.3	37.9	70.6	30	30.0	1.0	0.16	3.0	5.9
58.56	5.0E-05	0.20	5.1	0.78	6	9.9	39.7	49.6	56.8	30	30.0	1.4	0.13	3.9	7.8
58.89	5.0E-05	0.19	5.2	0.73	6	10.0	39.9	49.9	56.0	30	30.0	1.4	0.13	3.9	7.8
59.22	5.0E-05	0.29	3.6	0.63	1	7.7	UnDef	UnDef	100.0	30	30.0	1.0	0.18	UnDef	UnDef
59.55	5.0E-05	0.49	2.6	0.79	1	6.2	UnDef	UnDef	100.0	30	30.0	0.8	0.23	UnDef	UnDef
59.87	5.0E-05	0.45	2.6	0.72	1	6.2	UnDef	UnDef	100.0	30	30.0	0.7	0.23	UnDef	UnDef
60.20	5.0E-05	0.39	2.9	0.79	1	6.6	UnDef	UnDef	100.0	30	30.0	0.8	0.21	UnDef	UnDef
60.53	5.0E-05	0.24	4.2	0.44	1	8.6	UnDef	UnDef	100.0	30	30.0	1.1	0.19	UnDef	UnDef
60.86	5.0E-05	0.21	4.6	0.36	1	9.2	UnDef	UnDef	100.0	30	30.0	1.2	0.19	UnDef	UnDef
61.19	5.0E-05	0.19	5.0	0.78	6	9.8	39.4	49.2	57.7	30	30.0	1.3	0.13	3.9	7.7
61.52	5.0E-05	0.19	4.8	2.11	4	9.7	38.6	48.3	71.8	30	30.0	1.3	0.08	3.8	7.6
61.84	5.0E-05	0.06	7.7	1.44	6	14.1	56.6	70.7	53.7	30	30.0	2.3	0.04	5.5	11.1
62.17	5.0E-05	0.17	3.9	1.59	4	8.3	33.3	41.6	73.6	30	30.0	1.0	0.11	3.3	6.5
62.50	5.0E-05	0.33	2.6	0.54	1	6.3	UnDef	UnDef	100.0	30	30.0	0.8	0.23	UnDef	UnDef
[illegible]83	5.0E-05	0.25	3.4	0.83	1	7.5	UnDef	UnDef	100.0	30	30.0	0.9	0.17	UnDef	UnDef
[illegible]16	5.0E-05	0.15	4.6	0.65	1	9.5	UnDef	UnDef	100.0	30	30.0	1.2	0.14	UnDef	UnDef
63.48	5.0E-05	0.32	2.6	0.77	1	6.3	UnDef	UnDef	100.0	30	30.0	0.7	0.21	UnDef	UnDef
63.81	5.0E-05	0.32	2.8	0.77	1	6.7	UnDef	UnDef	100.0	30	30.0	0.8	0.20	UnDef	UnDef
64.14	5.0E-05	0.19	4.7	1.18	4	9.6	38.5	48.1	64.2	30	30.0	1.3	0.11	3.8	7.5
64.47	5.0E-05	0.09	5.9	2.06	4	11.6	46.2	57.8	65.7	30	30.0	1.6	0.05	4.5	9.1
64.80	5.0E-06	0.20	4.0	2.54	4	8.6	34.4	43.0	80.6	UnDef	UnDef	1.1	UnDef	4.2	8.4
65.12	5.0E-05	0.07	7.1	2.16	4	13.4	53.7	67.1	61.6	30	30.0	2.0	0.03	5.3	10.5
65.45	5.0E-04	0.01	18.3	1.60	6	31.0	124.1	155.1	36.7	32	33.7	1.0	-0.06	10.1	20.2
65.78	5.0E-04	0.00	23.5	1.64	7	39.2	110.5	149.7	32.6	34	40.4	1.0	-0.09	11.0	23.8
66.11	5.0E-04	0.00	27.1	1.52	7	45.0	84.6	129.6	29.4	36	44.4	1.0	-0.10	10.1	24.8
66.44	5.0E-04	0.00	27.8	1.62	7	46.1	90.5	136.6	29.8	36	45.1	1.0	-0.11	10.6	25.7
66.76	5.0E-04	0.00	26.7	1.72	7	44.6	101.5	146.0	31.0	36	44.1	1.0	-0.11	11.2	25.7
67.09	5.0E-05	0.05	12.6	2.16	6	22.2	88.9	111.1	48.0	30	30.0	4.6	-0.04	8.7	17.4
67.42	5.0E-05	0.09	10.9	2.43	4	19.7	78.8	98.5	52.9	30	30.0	3.7	-0.03	7.7	15.4
67.75	5.0E-04	0.01	23.4	1.81	6	39.4	133.0	172.4	33.9	34	40.6	1.0	-0.10	12.0	24.9
68.08	5.0E-04	0.00	29.4	1.76	7	49.2	96.8	146.0	29.8	36	46.9	1.0	-0.12	11.4	27.4
68.40	5.0E-04	0.00	29.1	1.78	7	48.6	99.4	148.0	30.1	36	46.6	1.0	-0.12	11.5	27.4
68.73	5.0E-04	0.00	25.8	1.78	7	43.5	113.2	156.7	32.1	34	43.4	1.0	-0.11	11.7	25.9
69.06	5.0E-04	0.00	24.4	1.59	7	41.4	102.0	143.4	31.6	34	42.0	1.0	-0.09	10.8	24.3
69.39	5.0E-04	0.00	22.1	1.83	6	37.8	149.9	187.6	34.9	34	39.4	1.0	-0.09	12.3	24.6
69.72	5.0E-04	0.00	25.5	1.73	7	43.3	110.2	153.5	31.9	34	43.3	1.0	-0.10	11.5	25.6
70.05	5.0E-04	0.00	22.4	2.00	6	38.4	153.6	192.0	35.8	34	39.8	1.0	-0.10	12.5	25.1
70.37	5.0E-04	0.01	20.0	2.21	6	34.5	138.2	172.7	39.2	34	36.8	1.0	-0.10	11.3	22.5
70.70	5.0E-04	0.00	20.1	1.82	6	34.8	139.1	173.8	36.6	34	37.0	1.0	-0.08	11.3	22.7
71.03	5.0E-04	0.00	20.9	1.36	7	36.1	100.8	136.9	32.6	34	38.1	1.0	-0.06	10.1	21.8
71.36	5.0E-04	0.00	19.2	1.60	6	33.5	134.1	167.7	35.8	32	36.0	1.0	-0.07	10.9	21.9
71.69	5.0E-04	0.02	13.9	2.04	6	25.0	100.1	125.1	45.1	32	30.0	1.0	-0.05	8.2	16.3
72.01	5.0E-05	0.06	12.3	2.04	6	22.4	89.5	111.9	47.7	30	30.0	4.4	-0.03	8.8	17.5
72.34	5.0E-05	0.04	13.9	2.31	6	25.1	100.4	125.5	46.8	32	30.0	5.4	-0.06	9.8	19.7
72.67	5.0E-05	0.02	15.1	2.46	6	27.0	107.9	134.9	46.1	32	30.0	6.0	-0.07	10.6	21.1
[illegible]00	5.0E-05	0.01	12.9	2.18	6	23.6	94.4	117.9	47.5	32	30.0	4.8	-0.05	9.2	18.5
[illegible]33	5.0E-06	0.02	7.5	3.10	4	14.7	58.7	73.4	66.2	UnDef	UnDef	2.2	UnDef	7.2	14.4
73.65	5.0E-07	0.23	3.2	5.00	1	7.7	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
73.98	5.0E-06	0.40	2.8	3.96	1	7.1	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
74.31	5.0E-05	0.10	6.2	2.76	4	12.7	50.9	63.6	69.2	30	30.0	1.7	0.03	5.0	10.0
74.64	5.0E-05	0.07	7.4	2.77	4	14.7	58.7	73.4	64.5	30	30.0	2.2	0.01	5.7	11.5
74.97	5.0E-06	0.09	5.3	3.15	1	11.3	UnDef	UnDef	100.0	UnDef	UnDef	1.4	UnDef	UnDef	UnDef
75.29	5.0E-06	0.36	2.8	3.78	1	7.1	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
75.62	5.0E-06	0.77	1.6	2.68	1	5.3	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
75.95	5.0E-05	0.86	1.5	1.33	1	5.0	UnDef	UnDef	100.0	30	30.0	0.6	0.39	UnDef	UnDef
76.28	5.0E-06	0.95	1.3	1.37	1	4.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
76.61	5.0E-06	0.96	1.3	2.78	1	4.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
76.93	5.0E-05	0.10	7.0	2.18	4	14.3	57.0	71.3	62.0	30	30.0	2.0	0.03	5.6	11.2
77.26	5.0E-05	0.01	10.9	1.98	6	20.7	82.6	103.3	50.0	30	30.0	3.7	-0.02	8.1	16.2
77.59	5.0E-05	0.03	7.2	2.77	4	14.6	58.3	72.9	65.3	30	30.0	2.1	0.01	5.7	11.4
77.92	5.0E-05	0.17	5.1	2.89	1	11.2	UnDef	UnDef	100.0	30	30.0	1.4	0.06	UnDef	UnDef
78.25	5.0E-05	0.17	4.0	2.46	4	9.3	37.1	46.4	80.2	30	30.0	1.1	0.10	3.6	7.3
78.58	5.0E-06	0.33	3.0	2.32	4	7.6	30.3	37.8	89.0	UnDef	UnDef	0.8	UnDef	3.7	7.4
78.90	5.0E-06	0.62	1.9	3.14	1	5.7	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
79.23	5.0E-05	0.56	2.0	1.42	4	6.1	24.2	30.3	93.9	30	30.0	0.6	0.25	2.4	4.7
79.56	5.0E-05	0.67	2.1	1.88	4	6.1	24.6	30.7	97.6	30	30.0	0.7	0.27	2.4	4.8
79.89	5.0E-05	0.67	2.1	1.70	4	6.2	24.7	30.9	95.7	30	30.0	0.7	0.27	2.4	4.8
80.22	5.0E-06	0.57	2.8	2.78	1	7.4	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
80.54	5.0E-05	0.05	2.9	2.07	4	7.6	30.4	38.0	87.3	30	30.0	0.8	0.12	3.0	6.0
80.87	5.0E-05	0.12	2.8	2.20	4	7.5	29.8	37.3	89.4	30	30.0	0.8	0.13	2.9	5.8
81.20	5.0E-05	0.15	3.1	2.04	4	8.0	31.8	39.8	84.9	30	30.0	0.9	0.13	3.1	6.2
81.53	5.0E-06	0.24	3.3	2.70	1	8.2	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
81.86	5.0E-06	0.24	3.2	4.11	1	8.2	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
82.18	5.0E-06	0.27	2.9	3.92	1	7.7	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
82.51	5.0E-06	0.28	2.9	2.69	1	7.6	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
82.84	5.0E-05	0.30	2.4	2.06	4	6.8	27.3	34.1	94.0	30	30.0	0.7	0.18	2.7	5.3
[illegible]17	5.0E-05	0.23	3.1	2.16	4	8.1	32.3	40.3	85.7	30	30.0	0.9	0.14	3.2	6.3
[illegible]50	5.0E-05	0.13	5.5	2.99	1	12.1	UnDef	UnDef	100.0	30	30.0	1.5	0.05	UnDef	UnDef
83.82	5.0E-06	0.09	7.6	3.82	1	15.7	UnDef	UnDef	100.0	UnDef	UnDef	2.2	UnDef	UnDef	UnDef
84.15	5.0E-08	0.15	9.7	5.38	1	19.3	UnDef	UnDef	100.0	UnDef	UnDef	3.1	UnDef	UnDef	UnDef
84.48	5.0E-04	0.01	22.6	2.41	6	41.5	166.1	207.6	38.0	34	42.1	1.0	-0.12	13.5	27.1
84.81	5.0E-04	-0.02	25.6	2.60	6	46.8	187.1	233.9	36.9	34	45.5	1.0	-0.15	15.3	30.5
85.14	5.0E-05	-0.02	23.4	2.94	6	43.1	172.3	215.3	40.2	34	43.1	10.0	-0.15	16.9	33.7
85.46	5.0E-04	-0.02	27.6	2.01	6	50.2	136.6	186.9	32.4	36	47.5	1.0	-0.13	13.8	30.2
85.79	5.0E-03	-0.02	33.8	1.34	7	61.1	69.0	130.2	24.9	36	53.2	1.0	-0.11	7.4	22.4
86.12	5.0E-03	-0.02	31.6	0.81	7	57.4	44.8	102.2	21.4	36	51.4	1.0	-0.06	5.3	19.4
86.45	5.0E-03	-0.02	28.4	0.98	7	51.9	56.4	108.3	24.5	36	48.5	1.0	-0.07	6.1	18.8
86.78	5.0E-03	-0.03	23.3	0.82	7	43.2	54.9	98.1	26.0	34	43.2	1.0	-0.04	5.7	16.3
87.11	5.0E-03	-0.03	18.2	0.85	7	34.3	71.5	105.9	30.3	32	36.6	1.0	-0.02	6.2	14.6
87.43	5.0E-03	-0.03	17.4	0.84	7	33.1	74.5	107.6	30.9	32	35.5	1.0	-0.01	6.2	14.3
87.76	5.0E-03	-0.03	16.4	0.73	7	31.4	69.3	100.7	30.8	32	34.1	1.0	0.00	5.8	13.5
88.09	5.0E-04	-0.04	13.7	0.91	6	26.7	106.7	133.4	36.1	32	30.0	1.0	0.00	8.7	17.4
88.42	5.0E-04	-0.05	11.6	2.02	6	23.1	92.4	115.5	48.8	30	30.0	1.0	-0.04	7.5	15.1
88.75	5.0E-04	-0.04	14.6	1.37	6	28.3	113.1	141.4	39.2	32	31.1	1.0	-0.03	9.2	18.5
89.07	5.0E-03	-0.04	16.1	0.65	7	31.0	63.8	94.8	30.2	32	33.7	1.0	0.01	5.5	13.1
89.40	5.0E-03	-0.04	17.6	0.70	7	33.7	61.5	95.3	29.2	32	36.1	1.0	0.00	5.6	13.8
89.73	5.0E-03	-0.03	21.5	0.78	7	40.6	56.3	96.9	26.8	34	41.4	1.0	-0.03	5.7	15.6
90.06	5.0E-03	-0.02	23.8	0.74	7	44.7	50.4	95.1	24.9	34	44.2	1.0	-0.03	5.4	16.4
90.39	5.0E-03	-0.02	23.8	0.77	7	44.7	52.3	97.0	25.2	34	44.2	1.0	-0.03	5.6	16.5
90.71	5.0E-03	-0.02	24.1	0.93	7	45.4	61.4	106.8	26.5	34	44.7	1.0	-0.05	6.2	17.4
91.04	5.0E-03	-0.02	24.0	0.69	7	45.2	47.5	92.7	24.2	34	44.5	1.0	-0.03	5.2	16.3
91.37	5.0E-03	-0.02	18.4	1.14	7	35.4	103.9	139.3	32.9	32	37.5	1.0	-0.04	7.6	16.2
91.70	5.0E-03	-0.01	19.4	1.10	7	37.2	91.9	129.2	31.7	34	39.0	1.0	-0.04	7.3	16.4
92.03	5.0E-03	-0.02	26.0	0.78	7	49.0	49.7	98.7	23.9	36	46.8	1.0	-0.04	5.5	17.5
92.35	5.0E-03	-0.02	33.3	0.90	7	62.0	49.1	111.1	21.6	36	53.6	1.0	-0.08	5.8	21.0
92.68	5.0E-03	-0.02	27.3	1.50	7	51.6	94.3	145.9	29.2	36	48.3	1.0	-0.10	8.6	21.2
93.01	5.0E-04	-0.02	16.7	1.43	6	32.6	130.5	163.2	37.1	32	35.2	1.0	-0.05	10.6	21.3
[illegible]34	5.0E-03	-0.03	13.0	0.61	7	26.0	83.2	109.2	33.5	32	30.0	1.0	0.04	5.8	12.2
[illegible].67	5.0E-05	-0.06	5.5	1.40	4	12.7	50.8	63.5	62.2	30	30.0	1.5	0.06	5.0	10.0
93.99	5.0E-04	-0.03	4.4	0.68	1	10.9	UnDef	UnDef	100.0	30	30.0	1.0	0.13	UnDef	UnDef
94.32	5.0E-05	0.03	3.1	1.47	4	8.4	33.7	42.1	80.3	30	30.0	0.8	0.13	3.3	6.6

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5533
CPT File: 717CP004.COR

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
94.65	5.0E-05	0.09	3.9	1.82	4	10.0	40.0	50.0	75.7	30	30.0	1.0	0.10	3.9	7.8

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5615
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-11
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 12:03
CPT File: 717CP011.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 7.14 (ft): 23.4
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.16	94.8	2.65	2.79	1.1	6	114.6	0.01	0.01	0.00	2.00	36.3	72.7	7.59	0.00
0.49	78.6	4.88	6.20	-2.2	11	130.5	0.03	0.03	0.00	2.00	75.3	150.6	UnDef	0.00
0.82	56.8	3.74	6.59	-17.0	11	130.5	0.05	0.05	0.00	2.00	54.4	108.8	UnDef	0.00
1.15	40.1	2.54	6.34	-19.1	3	111.4	0.07	0.07	0.00	2.00	38.4	76.8	3.20	0.00
[redacted]48	31.8	1.93	6.09	-19.3	3	111.4	0.09	0.09	0.00	2.00	30.4	60.8	2.53	0.00
[redacted]80	41.9	2.40	5.72	-8.9	3	111.4	0.11	0.11	0.00	2.00	40.1	80.2	3.34	0.00
2.13	53.1	2.70	5.08	-5.7	11	130.5	0.13	0.13	0.00	2.00	50.8	101.6	UnDef	0.00
2.46	41.7	2.44	5.86	-16.3	3	111.4	0.15	0.15	0.00	2.00	39.9	79.8	3.32	0.00
2.79	37.9	2.02	5.34	-6.2	3	111.4	0.17	0.17	0.00	2.00	36.3	72.5	3.01	0.00
3.12	42.6	2.52	5.92	-10.8	3	111.4	0.18	0.18	0.00	2.00	40.8	81.5	3.39	0.00
3.44	33.7	2.28	6.76	-20.3	3	111.4	0.20	0.20	0.00	2.00	32.2	64.5	2.68	0.00
3.77	48.3	2.81	5.82	3.4	3	111.4	0.22	0.22	0.00	2.00	46.3	92.5	3.85	0.00
4.10	66.4	3.74	5.64	0.9	11	130.5	0.24	0.24	0.00	2.00	63.6	127.2	UnDef	0.00
4.43	44.2	3.20	7.25	-18.2	3	111.4	0.26	0.26	0.00	1.96	42.3	83.0	3.51	0.00
4.76	44.6	2.73	6.13	-13.2	3	111.4	0.28	0.28	0.00	1.90	42.7	81.0	3.55	0.00
5.09	36.9	2.47	6.70	-16.2	3	111.4	0.30	0.30	0.00	1.84	35.3	64.9	2.93	0.00
5.41	40.9	2.47	6.04	-13.0	3	111.4	0.31	0.31	0.00	1.78	39.2	69.9	3.25	0.00
5.74	37.5	2.38	6.33	-11.5	3	111.4	0.33	0.33	0.00	1.73	35.9	62.3	2.97	0.00
6.07	38.4	2.23	5.82	-8.4	3	111.4	0.35	0.35	0.00	1.69	36.7	62.0	3.04	0.00
6.40	50.5	2.98	5.90	-1.5	3	111.4	0.37	0.37	0.00	1.65	48.3	79.5	4.01	0.00
6.73	39.5	2.71	6.87	-7.7	3	111.4	0.39	0.39	0.00	1.61	37.8	60.7	3.13	0.00
7.05	39.4	2.46	6.25	-2.7	3	111.4	0.41	0.41	0.00	1.57	37.7	59.2	3.12	0.00
7.38	49.0	2.49	5.08	-4.5	3	111.4	0.42	0.42	0.00	1.54	46.9	72.0	3.88	0.00
7.79	36.8	2.18	5.91	-17.5	3	111.4	0.45	0.45	0.00	1.50	35.2	52.7	2.91	0.00
8.20	26.3	1.40	5.34	-19.6	3	111.4	0.47	0.47	0.00	1.46	25.2	36.7	2.07	0.00
8.53	26.4	1.31	4.95	-10.5	3	111.4	0.49	0.49	0.00	1.43	25.3	36.2	2.08	0.00
8.86	32.8	1.77	5.39	-0.7	3	111.4	0.51	0.51	0.00	1.41	31.4	44.1	2.58	0.00
9.19	40.7	2.48	6.09	-9.5	3	111.4	0.52	0.52	0.00	1.38	39.0	53.9	3.22	0.00
9.51	44.5	2.65	5.95	16.6	3	111.4	0.54	0.54	0.00	1.36	42.7	57.9	3.52	0.00
9.84	40.5	2.50	6.17	16.9	3	111.4	0.56	0.56	0.00	1.33	38.8	51.8	3.19	0.00
10.17	28.2	2.10	7.43	1.2	3	111.4	0.58	0.58	0.00	1.31	27.0	35.5	2.21	0.00
10.50	26.1	1.87	7.16	-6.3	3	111.4	0.60	0.60	0.00	1.29	25.0	32.4	2.04	0.00
10.83	43.5	2.00	4.60	-2.3	4	114.6	0.62	0.62	0.00	1.27	27.7	35.3	3.43	0.00
11.15	40.9	2.11	5.14	-6.1	3	111.4	0.63	0.63	0.00	1.26	39.2	49.2	3.22	0.00
11.48	40.7	2.23	5.48	-8.3	3	111.4	0.65	0.65	0.00	1.24	39.0	48.3	3.20	0.00
[redacted]81	44.4	2.56	5.76	-13.2	3	111.4	0.67	0.67	0.00	1.22	42.6	51.9	3.50	0.00
[redacted]14	37.4	2.15	5.74	-13.5	3	111.4	0.69	0.69	0.00	1.20	35.9	43.2	2.94	0.00
12.47	36.6	1.72	4.70	-15.9	3	111.4	0.71	0.71	0.00	1.19	35.0	41.7	2.87	0.00
12.80	18.3	1.04	5.66	-15.3	3	111.4	0.73	0.73	0.00	1.17	17.5	20.6	1.41	0.00

[redacted]ch (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
33.63	18.5	0.54	2.90	18.4	5	114.6	1.93	1.61	0.32	0.79	8.9	7.0	1.32	0.11
33.96	22.2	0.31	1.40	22.6	6	114.6	1.95	1.62	0.33	0.79	8.5	6.7	1.62	0.14
34.28	22.1	0.17	0.77	19.7	6	114.6	1.97	1.63	0.34	0.78	8.5	6.6	1.61	0.14
34.61	14.0	0.10	0.68	23.0	6	114.6	1.99	1.64	0.35	0.78	5.4	4.2	0.96	0.09
34.94	6.9	0.04	0.51	54.6	1	111.4	2.01	1.65	0.36	0.78	3.3	2.6	0.39	0.00
35.27	5.3	0.04	0.67	81.4	1	111.4	2.03	1.66	0.37	0.78	2.5	2.0	0.26	0.00
35.60	6.1	0.03	0.49	49.3	1	111.4	2.04	1.66	0.38	0.78	2.9	2.3	0.33	0.00
35.92	4.6	0.03	0.55	38.4	1	111.4	2.06	1.67	0.39	0.77	2.2	1.7	0.20	0.00
36.25	4.8	0.02	0.42	69.0	1	111.4	2.08	1.68	0.40	0.77	2.3	1.8	0.21	0.00
36.58	5.1	0.03	0.59	85.2	1	111.4	2.10	1.69	0.41	0.77	2.4	1.9	0.24	0.00
36.91	5.6	0.04	0.72	88.5	1	111.4	2.12	1.70	0.42	0.77	2.7	2.0	0.28	0.00
37.24	6.3	0.05	0.79	103.8	1	111.4	2.13	1.70	0.43	0.77	3.0	2.3	0.34	0.00
37.57	6.9	0.06	0.79	105.3	1	111.4	2.15	1.71	0.44	0.76	3.3	2.5	0.38	0.00
37.89	8.6	0.06	0.64	103.8	6	114.6	2.17	1.72	0.45	0.76	3.3	2.5	0.51	0.08
38.22	15.5	0.04	0.26	74.2	6	114.6	2.19	1.73	0.46	0.76	5.9	4.5	1.06	0.00
38.55	22.1	0.10	0.45	6.3	7	117.8	2.21	1.74	0.47	0.76	7.1	5.4	UnDef	0.12
38.88	11.9	0.10	0.84	13.4	6	114.6	2.23	1.75	0.48	0.76	4.6	3.5	0.78	0.09
39.21	7.6	0.07	0.86	28.2	5	114.6	2.25	1.75	0.49	0.75	3.6	2.7	0.43	0.00
39.53	10.0	0.08	0.80	75.5	6	114.6	2.27	1.76	0.50	0.75	3.8	2.9	0.62	0.08
39.86	28.5	0.11	0.37	25.2	7	117.8	2.29	1.77	0.51	0.75	9.1	6.8	UnDef	0.00
40.19	27.5	0.09	0.33	0.2	7	117.8	2.30	1.78	0.52	0.75	8.8	6.6	UnDef	0.00
40.52	13.8	0.12	0.87	12.1	6	114.6	2.32	1.79	0.53	0.75	5.3	4.0	0.92	0.09
40.85	11.2	0.09	0.80	35.0	6	114.6	2.34	1.80	0.54	0.75	4.3	3.2	0.71	0.09
41.17	9.5	0.07	0.69	60.5	6	114.6	2.36	1.81	0.55	0.74	3.6	2.7	0.57	0.08
41.50	8.1	0.09	1.11	92.7	5	114.6	2.38	1.82	0.56	0.74	3.9	2.9	0.46	0.00
41.83	11.2	0.15	1.30	82.0	5	114.6	2.40	1.82	0.57	0.74	5.4	4.0	0.70	0.09
42.16	10.7	0.13	1.17	28.5	5	114.6	2.42	1.83	0.58	0.74	5.1	3.8	0.66	0.09
[redacted]49	8.4	0.12	1.37	33.6	5	114.6	2.44	1.84	0.59	0.74	4.0	3.0	0.48	0.08
[redacted]81	18.5	0.26	1.38	58.3	6	114.6	2.46	1.85	0.61	0.74	7.1	5.2	1.28	0.11
43.14	41.6	0.22	0.53	-6.7	7	117.8	2.47	1.86	0.62	0.73	13.3	9.7	UnDef	0.10
43.47	41.8	0.20	0.47	-12.5	7	117.8	2.49	1.87	0.63	0.73	13.4	9.8	UnDef	0.00
43.80	22.2	0.16	0.70	-14.8	6	114.6	2.51	1.88	0.64	0.73	8.5	6.2	1.57	0.13
44.13	10.4	0.06	0.58	-6.3	6	114.6	2.53	1.89	0.65	0.73	4.0	2.9	0.63	0.00
44.45	9.5	0.06	0.58	5.1	6	114.6	2.55	1.89	0.66	0.73	3.6	2.6	0.56	0.00
44.78	10.4	0.06	0.58	19.0	6	114.6	2.57	1.90	0.67	0.73	4.0	2.9	0.62	0.00
45.11	9.6	0.08	0.84	43.5	6	114.6	2.59	1.91	0.68	0.72	3.7	2.7	0.56	0.08
45.44	10.1	0.10	0.99	101.8	5	114.6	2.61	1.92	0.69	0.72	4.8	3.5	0.60	0.08
45.77	9.9	0.11	1.06	108.0	5	114.6	2.63	1.93	0.70	0.72	4.7	3.4	0.58	0.08
46.10	8.8	0.11	1.19	101.1	5	114.6	2.64	1.94	0.71	0.72	4.2	3.0	0.49	0.08
46.42	6.6	0.07	0.99	104.6	5	114.6	2.66	1.95	0.72	0.72	3.1	2.3	0.31	0.00
46.75	5.9	0.08	1.28	115.8	5	114.6	2.68	1.95	0.73	0.72	2.8	2.0	0.26	0.00
47.08	19.2	0.10	0.50	48.3	6	114.6	2.70	1.96	0.74	0.71	7.3	5.2	1.32	0.11
47.41	24.9	0.15	0.58	18.0	7	117.8	2.72	1.97	0.75	0.71	8.0	5.7	UnDef	0.14
47.74	27.0	0.07	0.26	22.9	7	117.8	2.74	1.98	0.76	0.71	8.6	6.1	UnDef	0.00
48.06	22.3	0.16	0.70	34.5	7	117.8	2.76	1.99	0.77	0.71	7.1	5.1	UnDef	0.12
48.39	29.2	0.14	0.46	34.3	7	117.8	2.78	2.00	0.78	0.71	9.3	6.6	UnDef	0.11
48.72	26.1	0.22	0.84	27.9	7	117.8	2.80	2.01	0.79	0.71	8.3	5.9	UnDef	0.15
49.05	25.4	0.12	0.45	37.9	7	117.8	2.82	2.02	0.80	0.70	8.1	5.7	UnDef	0.14
49.38	19.2	0.16	0.81	56.3	6	114.6	2.84	2.03	0.81	0.70	7.3	5.2	1.31	0.11
49.70	9.2	0.14	1.48	99.1	5	114.6	2.85	2.03	0.82	0.70	4.4	3.1	0.50	0.08
50.03	8.3	0.11	1.34	113.1	5	114.6	2.87	2.04	0.83	0.70	4.0	2.8	0.43	0.00
50.36	14.5	0.07	0.48	71.4	6	114.6	2.89	2.05	0.84	0.70	5.6	3.9	0.93	0.09
50.69	13.4	0.11	0.82	85.0	6	114.6	2.91	2.06	0.85	0.70	5.1	3.6	0.84	0.09
51.02	11.5	0.09	0.74	94.3	6	114.6	2.93	2.07	0.86	0.70	4.4	3.1	0.69	0.09
51.34	21.6	0.04	0.16	76.7	7	117.8	2.95	2.08	0.87	0.69	6.9	4.8	UnDef	0.00
51.67	19.5	0.08	0.41	69.7	7	117.8	2.97	2.09	0.88	0.69	6.2	4.3	UnDef	0.11
52.00	11.7	0.07	0.56	82.2	6	114.6	2.99	2.09	0.89	0.69	4.5	3.1	0.70	0.00
52.33	8.2	0.03	0.37	101.2	1	111.4	3.01	2.10	0.90	0.69	3.9	2.7	0.42	0.00
[redacted]66	8.9	0.05	0.56	109.0	6	114.6	3.02	2.11	0.91	0.69	3.4	2.4	0.47	0.00
[redacted]98	9.6	0.07	0.73	108.2	6	114.6	3.04	2.12	0.92	0.69	3.7	2.5	0.53	0.08
53.31	11.9	0.06	0.51	62.8	6	114.6	3.06	2.13	0.93	0.69	4.6	3.1	0.71	0.00
53.64	13.3	0.04	0.30	114.8	6	114.6	3.08	2.14	0.94	0.68	5.1	3.5	0.82	0.00

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5615
CPT File: 717CP011.COR

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
53.97	21.3	0.06	0.26	39.5	7	117.8	3.10	2.15	0.95	0.68	6.8	4.6	UnDef	0.11
54.30	11.6	0.06	0.52	77.2	6	114.6	3.12	2.15	0.96	0.68	4.4	3.0	0.68	0.00
54.63	11.4	0.04	0.31	100.0	6	114.6	3.14	2.16	0.97	0.68	4.4	3.0	0.66	0.00
54.95	9.0	0.05	0.50	118.4	6	114.6	3.16	2.17	0.98	0.68	3.4	2.3	0.46	0.00
55.28	18.8	0.14	0.72	68.7	6	114.6	3.17	2.18	0.99	0.68	7.2	4.9	1.25	0.10
55.61	23.0	0.30	1.29	49.3	6	114.6	3.19	2.19	1.00	0.68	8.8	5.9	1.58	0.12
55.94	42.0	0.23	0.55	15.1	7	117.8	3.21	2.20	1.01	0.67	13.4	9.0	UnDef	0.11
56.27	51.6	0.44	0.85	9.6	7	117.8	3.23	2.21	1.02	0.67	16.5	11.1	UnDef	0.14
56.59	78.8	0.61	0.77	21.0	8	120.9	3.25	2.22	1.04	0.67	18.9	12.7	UnDef	0.14
56.92	134.7	0.84	0.63	-1.1	9	124.1	3.27	2.23	1.05	0.67	25.8	17.3	UnDef	0.21
57.25	159.0	1.56	0.98	-3.6	9	124.1	3.29	2.24	1.06	0.67	30.4	20.4	UnDef	0.32
57.58	101.9	2.13	2.09	-17.9	7	117.8	3.31	2.25	1.07	0.67	32.5	21.7	UnDef	0.43
57.91	56.5	1.92	3.40	-20.8	5	114.6	3.33	2.25	1.08	0.67	27.1	18.0	4.26	0.00
58.23	44.5	0.56	1.26	-20.0	7	117.8	3.35	2.26	1.09	0.66	14.2	9.4	UnDef	0.36
58.56	38.0	0.17	0.44	4.8	7	117.8	3.37	2.27	1.10	0.66	12.1	8.0	UnDef	0.00
58.89	15.5	0.20	1.26	46.5	6	114.6	3.39	2.28	1.11	0.66	5.9	3.9	0.97	0.09
59.22	13.2	0.07	0.53	93.0	6	114.6	3.41	2.29	1.12	0.66	5.1	3.4	0.79	0.00
59.55	14.5	0.13	0.90	102.4	6	114.6	3.43	2.30	1.13	0.66	5.5	3.7	0.88	0.09
59.87	22.3	0.14	0.63	65.8	7	117.8	3.44	2.31	1.14	0.66	7.1	4.7	UnDef	0.11
60.20	28.7	0.26	0.91	48.2	7	117.8	3.46	2.32	1.15	0.66	9.2	6.0	UnDef	0.15
60.53	41.7	0.29	0.70	17.0	7	117.8	3.48	2.33	1.16	0.66	13.3	8.7	UnDef	0.14
60.86	45.4	0.47	1.04	1.2	7	117.8	3.50	2.33	1.17	0.65	14.5	9.5	UnDef	0.23
61.19	34.2	0.51	1.49	6.4	6	114.6	3.52	2.34	1.18	0.65	13.1	8.6	2.46	0.20
61.52	18.7	0.52	2.76	7.2	5	114.6	3.54	2.35	1.19	0.65	9.0	5.8	1.21	0.00
61.84	81.5	1.23	1.51	23.5	7	117.8	3.56	2.36	1.20	0.65	26.0	16.9	UnDef	0.26
62.17	182.8	4.17	2.28	24.5	7	117.8	3.58	2.37	1.21	0.65	58.4	37.9	UnDef	0.00
62.50	202.2	7.99	3.95	-24.3	12	120.9	3.60	2.38	1.22	0.65	96.8	62.8	UnDef	0.00
[redacted]83	192.3	10.31	5.36	-28.6	11	130.5	3.62	2.39	1.23	0.65	184.2	119.1	UnDef	0.00
[redacted]16	270.8	10.64	3.93	-29.7	12	120.9	3.64	2.40	1.24	0.65	129.6	83.7	UnDef	0.00
63.48	412.7	11.56	2.80	-31.0	12	120.9	3.66	2.41	1.25	0.64	197.6	127.3	UnDef	0.00

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5615
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-11
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 12:03
CPT File: 717CP011.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 7.14 (ft): 23.4
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski --All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-05	0.00	1000.0	2.79	12	181.6	UnDef	UnDef	0.0	50	95.0	10.0	-0.60	UnDef	UnDef
0.49	1.0E-15	0.00	1000.0	6.20	11	150.6	UnDef	UnDef	0.0	50	95.0	1.0	-1.44	UnDef	UnDef
0.82	1.0E-15	-0.01	1000.0	6.60	11	108.8	UnDef	UnDef	0.0	50	93.1	1.0	-1.69	UnDef	UnDef
1.15	5.0E-08	-0.01	565.7	6.35	11	76.8	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
1.48	5.0E-08	-0.02	355.7	6.11	11	60.8	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
1.80	5.0E-08	-0.01	389.2	5.74	11	80.2	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
2.13	1.0E-15	0.00	416.3	5.09	11	101.6	UnDef	UnDef	0.0	48	78.0	1.0	-0.84	UnDef	UnDef
2.46	5.0E-08	-0.01	282.5	5.88	11	79.8	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
2.79	5.0E-08	-0.01	228.1	5.36	11	72.5	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
3.12	5.0E-08	-0.01	230.9	5.95	11	81.5	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
3.44	5.0E-08	-0.02	165.8	6.80	11	64.5	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
3.77	5.0E-08	0.00	218.5	5.85	11	92.5	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
4.10	1.0E-15	0.00	275.8	5.66	11	127.2	UnDef	UnDef	0.0	46	75.4	1.0	-0.90	UnDef	UnDef
4.43	5.0E-08	-0.01	169.1	7.29	11	84.6	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
4.76	5.0E-08	-0.01	159.4	6.16	11	82.8	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
5.09	5.0E-08	-0.01	123.5	6.75	11	66.3	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
5.41	5.0E-08	-0.01	129.1	6.09	11	71.4	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
5.74	5.0E-08	-0.01	111.7	6.39	11	63.6	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
6.07	5.0E-08	-0.01	108.2	5.87	11	63.3	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
6.40	5.0E-08	0.00	135.6	5.94	11	81.2	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
6.73	5.0E-08	-0.01	100.8	6.94	11	62.0	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
7.05	5.0E-08	0.00	96.0	6.32	11	60.5	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
7.38	5.0E-08	0.00	114.5	5.12	11	73.6	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
7.79	5.0E-08	-0.02	81.3	5.99	11	53.8	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
8.20	5.0E-08	-0.02	55.0	5.43	6	37.5	150.1	187.7	35.9	UnDef	UnDef	10.0	UnDef	36.7	73.5
8.53	5.0E-08	-0.01	53.1	5.04	6	37.0	148.1	185.1	35.2	UnDef	UnDef	10.0	UnDef	36.2	72.5
8.86	5.0E-08	0.00	63.8	5.48	6	45.1	153.7	198.9	34.0	UnDef	UnDef	10.0	UnDef	41.3	85.5
9.19	5.0E-08	-0.01	76.7	6.17	11	55.0	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
9.51	5.0E-08	0.01	81.0	6.03	11	59.2	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
9.84	5.0E-08	0.01	71.1	6.25	11	52.9	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
10.17	5.0E-08	0.00	47.7	7.58	1	36.3	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
10.50	5.0E-08	-0.01	42.7	7.32	1	33.1	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
10.83	5.0E-07	0.00	69.5	4.67	6	54.2	114.2	168.4	30.4	UnDef	UnDef	10.0	UnDef	26.0	61.4
11.15	5.0E-08	0.00	63.5	5.23	6	50.3	155.1	205.3	33.3	UnDef	UnDef	10.0	UnDef	44.0	93.2
11.48	5.0E-08	-0.01	61.3	5.57	6	49.3	190.0	239.3	34.7	UnDef	UnDef	10.0	UnDef	47.6	95.9
11.81	5.0E-08	-0.01	65.2	5.85	11	53.1	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
12.14	5.0E-08	-0.01	53.3	5.85	1	44.1	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
12.47	5.0E-08	-0.01	50.7	4.79	6	42.6	170.2	212.8	35.0	UnDef	UnDef	10.0	UnDef	41.7	83.3
12.80	5.0E-08	-0.03	24.2	5.90	1	21.0	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-08	-0.02	25.3	4.38	4	22.2	89.0	111.2	44.9	UnDef	UnDef	10.0	UnDef	21.8	43.5
13.45	5.0E-08	-0.02	34.7	5.86	1	30.5	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
13.78	5.0E-08	-0.02	35.1	6.77	1	31.2	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
14.11	5.0E-08	-0.02	31.9	6.35	1	28.8	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
14.44	5.0E-08	-0.02	32.5	6.25	1	29.6	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
14.76	5.0E-08	-0.02	27.4	7.37	1	25.4	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
15.09	5.0E-08	-0.03	20.9	6.69	1	19.8	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
15.42	5.0E-08	-0.03	15.1	7.19	1	14.7	UnDef	UnDef	100.0	UnDef	UnDef	6.1	UnDef	UnDef	UnDef
15.75	5.0E-08	-0.01	35.4	6.46	1	33.6	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
16.08	5.0E-08	-0.01	55.1	6.70	1	52.3	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
16.40	5.0E-08	-0.02	39.0	6.71	1	37.7	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
16.73	5.0E-08	-0.02	33.3	6.07	1	32.6	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
17.06	5.0E-08	-0.04	17.6	7.37	1	17.8	UnDef	UnDef	100.0	UnDef	UnDef	7.7	UnDef	UnDef	UnDef
17.39	5.0E-08	-0.05	12.6	5.82	1	13.2	UnDef	UnDef	100.0	UnDef	UnDef	4.6	UnDef	UnDef	UnDef
17.72	5.0E-08	-0.06	10.9	7.62	1	11.7	UnDef	UnDef	100.0	UnDef	UnDef	3.7	UnDef	UnDef	UnDef
18.04	5.0E-08	-0.05	12.5	5.92	1	13.3	UnDef	UnDef	100.0	UnDef	UnDef	4.5	UnDef	UnDef	UnDef
18.37	5.0E-08	-0.08	7.0	10.00	1	8.0	UnDef	UnDef	100.0	UnDef	UnDef	2.0	UnDef	UnDef	UnDef
18.70	5.0E-08	-0.05	10.1	6.33	1	11.1	UnDef	UnDef	100.0	UnDef	UnDef	3.3	UnDef	UnDef	UnDef
19.03	5.0E-08	-0.06	8.2	6.91	1	9.3	UnDef	UnDef	100.0	UnDef	UnDef	2.5	UnDef	UnDef	UnDef
19.36	5.0E-08	-0.07	6.7	7.31	1	7.8	UnDef	UnDef	100.0	UnDef	UnDef	1.9	UnDef	UnDef	UnDef
19.68	5.0E-08	-0.07	6.3	6.55	1	7.5	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
20.01	5.0E-08	-0.09	4.6	7.30	1	5.8	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
20.34	5.0E-08	-0.07	6.6	8.55	1	8.0	UnDef	UnDef	100.0	UnDef	UnDef	1.9	UnDef	UnDef	UnDef
20.67	5.0E-04	-0.01	34.4	1.54	7	37.4	48.0	85.4	26.0	36	39.1	1.0	-0.12	6.6	18.8
21.00	5.0E-03	-0.01	61.9	0.44	9	67.0	0.0	67.0	5.0	40	55.8	1.0	-0.07	0.0	16.4
21.33	5.0E-03	0.00	58.6	0.34	9	64.0	0.0	64.0	5.0	40	54.5	1.0	-0.05	0.0	15.7
21.65	5.0E-03	0.00	52.3	0.34	9	57.8	0.0	57.8	5.0	38	51.5	1.0	-0.04	0.0	14.1
[redacted]98	5.0E-03	0.00	44.5	0.32	9	49.7	0.0	49.7	5.0	38	47.2	1.0	-0.02	0.0	12.2
[redacted]31	5.0E-03	0.00	47.9	0.30	9	53.8	0.0	53.8	5.0	38	49.5	1.0	-0.02	0.0	13.2
22.64	5.0E-03	0.00	48.3	0.37	9	54.7	0.0	54.7	5.0	38	50.0	1.0	-0.04	0.0	13.4
22.97	5.0E-03	0.00	45.5	0.41	9	52.0	0.0	52.0	5.0	38	48.5	1.0	-0.04	0.0	12.7
23.29	5.0E-03	0.00	45.2	0.62	9	52.0	19.4	71.4	15.2	38	48.5	1.0	-0.07	2.6	15.3
23.62	5.0E-03	0.00	47.9	0.55	9	55.4	16.9	72.3	13.8	38	50.3	1.0	-0.07	2.3	15.9
23.95	5.0E-03	0.00	53.3	0.33	9	61.6	0.0	61.6	5.0	40	53.4	1.0	-0.04	0.0	15.1
24.28	5.0E-03	0.00	53.3	0.26	9	61.9	0.0	61.9	5.0	40	53.5	1.0	-0.02	0.0	15.2
24.61	5.0E-03	0.00	53.2	0.29	9	62.1	0.0	62.1	5.0	40	53.6	1.0	-0.03	0.0	15.2
24.93	5.0E-03	0.00	51.1	0.39	9	59.9	0.0	59.9	5.0	38	52.6	1.0	-0.05	0.0	14.6
25.26	5.0E-04	0.00	37.2	1.13	7	44.1	36.6	80.7	22.0	38	43.8	1.0	-0.10	5.7	20.1
25.59	5.0E-07	0.01	11.1	4.15	1	14.0	UnDef	UnDef	100.0	UnDef	UnDef	3.8	UnDef	UnDef	UnDef
25.92	5.0E-08	0.04	6.1	4.60	1	8.3	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
26.25	5.0E-06	0.33	4.0	1.51	4	5.9	23.5	29.4	72.4	UnDef	UnDef	1.1	UnDef	2.9	5.7
26.57	5.0E-05	0.11	11.0	0.68	6	14.0	56.1	70.1	37.7	30	30.0	3.7	0.06	5.5	11.0
26.90	5.0E-04	0.02	24.8	0.52	7	30.3	24.4	54.7	21.7	34	33.0	1.0	0.00	3.8	13.7
27.23	5.0E-03	0.00	37.0	0.56	7	44.7	20.6	65.3	16.8	38	44.2	1.0	-0.05	2.7	13.6
27.56	5.0E-04	0.00	34.9	0.91	7	42.4	31.8	74.2	21.1	38	42.7	1.0	-0.08	5.1	18.9
27.89	5.0E-04	0.00	32.0	1.02	7	39.0	37.0	76.0	23.2	36	40.3	1.0	-0.08	5.6	18.3
28.21	5.0E-04	0.00	24.2	1.40	7	30.0	62.9	92.9	30.4	34	32.8	1.0	-0.08	7.2	17.0
28.54	5.0E-05	0.01	15.6	2.07	6	19.9	79.5	99.4	42.9	32	30.0	6.4	-0.07	7.8	15.6
28.87	5.0E-04	0.01	20.3	0.90	7	25.5	45.4	70.9	29.0	34	30.0	1.0	-0.03	5.6	13.9
29.20	5.0E-03	-0.01	31.2	0.43	7	38.6	0.0	38.6	5.0	36	40.0	1.0	-0.01	0.0	9.5
29.53	5.0E-04	0.00	23.5	1.19	7	29.5	54.3	83.8	29.3	34	32.3	1.0	-0.06	6.6	16.2
29.86	5.0E-07	0.00	9.9	3.87	1	13.2	UnDef	UnDef	100.0	UnDef	UnDef	3.2	UnDef	UnDef	UnDef
30.18	5.0E-07	0.05	6.6	3.64	1	9.4	UnDef	UnDef	100.0	UnDef	UnDef	1.9	UnDef	UnDef	UnDef
30.59	5.0E-05	0.04	11.2	1.64	6	15.0	59.9	74.8	46.7	30	30.0	3.9	-0.01	5.9	11.7
31.00	5.0E-04	0.01	22.9	0.70	7	29.2	33.2	62.4	24.9	34	32.0	1.0	-0.02	4.7	14.3
31.33	5.0E-03	0.00	31.2	0.35	7	39.4	0.0	39.4	5.0	36	40.6	1.0	0.00	0.0	9.6
31.66	5.0E-03	0.00	29.4	0.45	7	37.4	0.0	37.4	5.0	36	39.1	1.0	-0.01	0.0	9.2
31.99	5.0E-04	0.00	22.9	0.91	7	29.5	42.5	72.0	27.1	34	32.2	1.0	-0.04	5.6	15.2
[redacted]32	5.0E-04	0.00	21.8	1.08	7	28.2	53.3	81.5	29.5	34	31.0	1.0	-0.05	6.4	15.6
[redacted]64	5.0E-04	-0.01	28.9	0.89	7	37.0	35.9	72.9	23.4	36	38.8	1.0	-0.06	5.4	17.5
32.97	5.0E-04	0.00	31.2	0.86	7	40.1	33.5	73.5	22.0	36	41.0	1.0	-0.07	5.2	18.3
33.30	5.0E-04	0.00	22.6	1.59	7	29.4	86.8	116.3	33.0	34	32.2	1.0	-0.08	8.4	18.0

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5615
CPT File: 717CP011.COR

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-06	0.02	10.3	3.24	4	14.2	57.0	71.2	58.9	UnDef	UnDef	3.4	UnDef	7.0	13.9
33.96	5.0E-05	0.02	12.5	1.54	6	17.0	68.2	85.2	43.7	30	30.0	4.5	-0.02	6.7	13.3
34.28	5.0E-05	0.01	12.4	0.85	6	17.0	67.8	84.8	37.3	30	30.0	4.5	0.02	6.6	13.3
34.61	5.0E-05	0.03	7.4	0.79	6	10.7	42.9	53.6	48.0	30	30.0	2.1	0.08	4.2	8.4
34.94	1.0E-07	0.28	2.9	0.72	1	5.2	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
35.27	1.0E-07	0.67	2.0	1.08	1	4.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
35.60	1.0E-07	0.29	2.4	0.74	1	4.6	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
35.92	1.0E-07	0.32	1.5	1.00	1	3.4	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
36.25	1.0E-07	0.65	1.6	0.75	1	3.6	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
36.58	1.0E-07	0.76	1.8	1.01	1	3.8	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
36.91	1.0E-07	0.68	2.0	1.17	1	4.2	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
37.24	1.0E-07	0.67	2.5	1.19	4	4.7	19.0	23.7	84.5	UnDef	UnDef	0.7	UnDef	2.3	4.6
37.57	1.0E-07	0.59	2.8	1.15	4	5.2	20.8	26.0	79.7	UnDef	UnDef	0.8	UnDef	2.5	5.1
37.89	5.0E-05	0.43	3.7	0.86	4	6.4	25.7	32.1	66.8	30	30.0	1.0	0.19	2.5	5.0
38.22	5.0E-05	0.14	7.7	0.30	1	11.5	UnDef	UnDef	100.0	30	30.0	2.3	0.15	UnDef	UnDef
38.55	5.0E-04	-0.01	11.5	0.50	7	16.4	60.2	76.7	34.4	30	30.0	1.0	0.06	5.2	10.5
38.88	5.0E-05	-0.01	5.6	1.03	4	8.8	35.4	44.2	57.9	30	30.0	1.5	0.08	3.5	6.9
39.21	5.0E-06	0.07	3.1	1.22	4	5.6	22.5	28.1	77.6	UnDef	UnDef	0.8	UnDef	2.7	5.5
39.53	5.0E-05	0.24	4.4	1.03	4	7.4	29.6	37.0	64.3	30	30.0	1.2	0.13	2.9	5.8
39.86	5.0E-04	0.01	14.8	0.40	7	21.0	0.0	21.0	5.0	32	30.0	1.0	0.06	0.0	6.8
40.19	5.0E-04	-0.02	14.1	0.36	7	20.2	0.0	20.2	5.0	32	30.0	1.0	0.07	0.0	6.6
40.52	5.0E-05	-0.01	6.4	1.05	6	10.1	40.4	50.5	54.3	30	30.0	1.8	0.07	4.0	7.9
40.85	5.0E-05	0.06	4.9	1.02	4	8.2	32.7	40.9	60.9	30	30.0	1.3	0.10	3.2	6.4
41.17	5.0E-05	0.19	3.9	0.92	4	6.9	27.5	34.4	66.2	30	30.0	1.0	0.14	2.7	5.4
41.50	5.0E-06	0.41	3.2	1.57	4	5.9	23.6	29.5	80.2	UnDef	UnDef	0.9	UnDef	2.9	5.8
41.83	5.0E-06	0.23	4.8	1.65	4	8.1	32.5	40.6	68.0	UnDef	UnDef	1.3	UnDef	4.0	7.9
42.16	5.0E-06	0.04	4.5	1.51	4	7.7	30.9	38.7	68.7	UnDef	UnDef	1.2	UnDef	3.8	7.6
[illegible]49	5.0E-06	0.08	3.2	1.93	4	6.1	24.2	30.3	82.8	UnDef	UnDef	0.9	UnDef	3.0	5.9
[illegible]81	5.0E-05	0.08	8.7	1.59	6	13.3	53.2	66.5	52.3	30	30.0	2.7	0.02	5.2	10.4
43.14	5.0E-04	-0.02	21.0	0.56	7	29.9	33.0	62.9	24.7	34	32.6	1.0	0.00	4.8	14.5
43.47	5.0E-04	-0.03	21.1	0.50	7	30.0	0.0	30.0	5.0	34	32.7	1.0	0.01	0.0	9.8
43.80	5.0E-05	-0.06	10.5	0.79	6	15.8	63.3	79.1	40.1	30	30.0	3.5	0.04	6.2	12.4
44.13	5.0E-05	-0.11	4.2	0.76	1	7.4	UnDef	UnDef	100.0	30	30.0	1.1	0.12	UnDef	UnDef
44.45	5.0E-05	-0.07	3.7	0.79	1	6.8	UnDef	UnDef	100.0	30	30.0	1.0	0.13	UnDef	UnDef
44.78	5.0E-05	-0.01	4.1	0.77	1	7.4	UnDef	UnDef	100.0	30	30.0	1.1	0.13	UnDef	UnDef
45.11	5.0E-05	0.10	3.7	1.15	4	6.8	27.1	33.9	71.2	30	30.0	1.0	0.13	2.7	5.3
45.44	5.0E-06	0.33	3.9	1.34	4	7.1	28.5	35.6	71.3	UnDef	UnDef	1.0	UnDef	3.5	7.0
45.77	5.0E-06	0.37	3.8	1.45	4	7.0	27.9	34.9	73.5	UnDef	UnDef	1.0	UnDef	3.4	6.8
46.10	5.0E-06	0.40	3.2	1.71	4	6.2	24.8	31.0	81.3	UnDef	UnDef	0.9	UnDef	3.0	6.1
46.42	5.0E-06	0.65	2.0	1.67	4	4.6	18.4	23.0	97.2	UnDef	UnDef	0.6	UnDef	2.3	4.5
46.75	5.0E-06	0.90	1.6	2.35	1	4.1	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
47.08	5.0E-05	0.05	8.4	0.58	6	13.4	53.6	66.9	42.0	30	30.0	2.6	0.09	5.2	10.5
47.41	5.0E-04	-0.01	11.3	0.65	6	17.4	69.5	86.9	36.9	30	30.0	1.0	0.05	5.7	11.3
47.74	5.0E-04	0.00	12.2	0.29	7	18.8	0.0	18.8	5.0	30	30.0	1.0	0.10	0.0	6.1
48.06	5.0E-04	0.02	9.8	0.79	6	15.5	62.0	77.5	41.4	30	30.0	1.0	0.05	5.1	10.1
48.39	5.0E-04	0.01	13.2	0.51	7	20.2	51.2	71.5	31.9	32	30.0	1.0	0.05	5.4	12.0
48.72	5.0E-04	0.00	11.6	0.95	6	18.0	72.2	90.2	39.7	30	30.0	1.0	0.02	5.9	11.8
49.05	5.0E-04	0.02	11.2	0.51	7	17.5	70.3	87.8	35.0	30	30.0	1.0	0.07	5.7	11.4
49.38	5.0E-05	0.06	8.1	0.95	6	13.2	52.7	65.9	47.7	30	30.0	2.4	0.06	5.2	10.3
49.70	5.0E-06	0.36	3.1	2.15	4	6.3	25.1	31.4	86.1	UnDef	UnDef	0.8	UnDef	3.1	6.1
50.03	5.0E-06	0.50	2.6	2.05	4	5.7	22.6	28.3	90.8	UnDef	UnDef	0.8	UnDef	2.8	5.5
50.36	5.0E-05	0.12	5.7	0.60	6	9.9	39.7	49.6	51.7	30	30.0	1.5	0.13	3.9	7.8
50.69	5.0E-05	0.17	5.1	1.05	4	9.1	36.5	45.7	60.5	30	30.0	1.4	0.11	3.6	7.2
51.02	5.0E-05	0.24	4.2	0.99	4	7.8	31.4	39.2	65.5	30	30.0	1.1	0.14	3.1	6.1
51.34	5.0E-04	0.08	9.0	0.19	1	14.7	UnDef	UnDef	100.0	30	30.0	1.0	0.17	UnDef	UnDef
51.67	5.0E-04	0.08	7.9	0.49	6	13.2	52.7	65.9	41.9	30	30.0	1.0	0.11	4.3	8.6
52.00	5.0E-05	0.19	4.2	0.75	1	7.9	UnDef	UnDef	100.0	30	30.0	1.1	0.15	UnDef	UnDef
52.33	1.0E-07	0.43	2.5	0.58	1	5.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
[illegible]66	5.0E-05	0.42	2.8	0.85	1	6.0	UnDef	UnDef	100.0	30	30.0	0.8	0.21	UnDef	UnDef
[illegible]98	5.0E-05	0.37	3.1	1.06	4	6.5	25.9	32.4	75.1	30	30.0	0.9	0.18	2.5	5.1
53.31	5.0E-05	0.12	4.1	0.68	1	8.0	UnDef	UnDef	100.0	30	30.0	1.1	0.15	UnDef	UnDef
53.64	5.0E-05	0.26	4.8	0.39	1	8.9	UnDef	UnDef	100.0	30	30.0	1.3	0.19	UnDef	UnDef

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
[redacted] No: 04-0401-1123-5670
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-9
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 13:20
CPT File: 717CP009.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 2.05 (ft): 6.7
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.16	90.9	0.34	0.37	0.6	8	120.9	0.01	0.01	0.00	2.00	21.8	43.5	UnDef	0.00
0.49	96.0	1.28	1.33	0.4	8	120.9	0.03	0.03	0.00	2.00	23.0	46.0	UnDef	0.00
0.82	256.0	2.30	0.90	0.3	9	124.1	0.05	0.05	0.00	2.00	49.0	98.1	UnDef	0.00
1.15	293.7	2.75	0.94	-0.3	9	124.1	0.07	0.07	0.00	2.00	56.3	112.5	UnDef	0.00
[redacted]48	384.1	3.89	1.01	-0.6	9	124.1	0.09	0.09	0.00	2.00	73.6	147.1	UnDef	0.00
[redacted]80	398.6	5.71	1.43	2.7	9	124.1	0.11	0.11	0.00	2.00	76.3	152.7	UnDef	0.00
2.13	307.1	4.44	1.45	2.7	8	120.9	0.13	0.13	0.00	2.00	73.5	147.0	UnDef	0.00
2.46	311.4	1.60	0.52	0.1	10	127.3	0.15	0.15	0.00	2.00	49.7	99.4	UnDef	0.00
2.79	273.8	2.14	0.78	6.2	9	124.1	0.17	0.17	0.00	2.00	52.4	104.9	UnDef	0.00
3.12	255.0	2.40	0.94	1.4	9	124.1	0.19	0.19	0.00	2.00	48.8	97.7	UnDef	0.00
3.44	293.4	2.50	0.85	2.5	9	124.1	0.21	0.21	0.00	2.00	56.2	112.4	UnDef	0.00
3.77	343.4	3.40	0.99	0.4	9	124.1	0.23	0.23	0.00	2.00	65.8	131.5	UnDef	0.00
4.10	327.0	3.43	1.05	-2.8	9	124.1	0.25	0.25	0.00	1.99	62.6	124.4	UnDef	0.00
4.43	294.0	2.97	1.01	-6.5	9	124.1	0.27	0.27	0.00	1.91	56.3	107.6	UnDef	0.00
4.76	242.8	2.35	0.97	-10.0	9	124.1	0.29	0.29	0.00	1.84	46.5	85.7	UnDef	0.00
5.09	178.9	1.69	0.95	-8.7	9	124.1	0.31	0.31	0.00	1.78	34.3	61.1	UnDef	0.00
5.41	144.5	1.25	0.87	-8.6	9	124.1	0.33	0.33	0.00	1.73	27.7	47.8	UnDef	0.00
5.74	126.3	0.64	0.50	-11.1	9	124.1	0.36	0.36	0.00	1.68	24.2	40.6	UnDef	0.00
6.07	100.0	0.59	0.59	-5.5	8	120.9	0.38	0.38	0.00	1.63	24.0	39.1	UnDef	0.46
6.40	97.1	0.59	0.60	-3.1	8	120.9	0.40	0.40	0.00	1.59	23.2	37.0	UnDef	0.40
6.73	88.1	0.45	0.51	0.5	8	120.9	0.42	0.42	0.00	1.55	21.1	32.7	UnDef	0.30
7.05	57.0	0.22	0.38	0.3	8	120.9	0.43	0.43	0.01	1.53	13.6	20.9	UnDef	0.14
7.38	34.4	0.20	0.57	2.9	7	117.8	0.45	0.43	0.02	1.52	11.0	16.7	UnDef	0.10
7.79	23.6	0.10	0.40	3.7	7	117.8	0.48	0.45	0.03	1.50	7.5	11.3	UnDef	0.08
8.20	20.9	0.06	0.29	6.5	7	117.8	0.50	0.46	0.05	1.48	6.7	9.9	UnDef	0.08
8.53	27.4	0.06	0.20	0.7	7	117.8	0.52	0.47	0.06	1.46	8.8	12.8	UnDef	0.09
8.86	27.3	0.09	0.31	2.8	7	117.8	0.54	0.48	0.07	1.45	8.7	12.6	UnDef	0.09
9.19	43.0	1.39	3.23	3.6	5	114.6	0.56	0.48	0.08	1.44	20.6	29.6	3.39	0.23
9.51	39.4	1.43	3.63	4.4	5	114.6	0.58	0.49	0.09	1.42	18.9	26.9	3.10	0.25
9.84	13.3	0.38	2.83	7.9	5	114.6	0.60	0.50	0.10	1.41	6.4	9.0	1.02	0.15
10.17	7.5	0.07	0.94	9.7	5	114.6	0.62	0.51	0.11	1.40	3.6	5.0	0.55	0.09
10.50	5.3	0.11	2.10	10.4	4	114.6	0.64	0.52	0.12	1.39	3.4	4.7	0.37	0.08
10.83	12.6	0.07	0.56	4.9	6	114.6	0.65	0.53	0.13	1.38	4.8	6.6	0.95	0.08
11.15	17.2	0.07	0.41	-0.4	6	114.6	0.67	0.54	0.14	1.37	6.6	9.0	1.32	0.00
11.48	20.2	0.10	0.47	7.8	7	117.8	0.69	0.54	0.15	1.36	6.4	8.7	UnDef	0.00
[redacted]81	25.4	0.07	0.28	-0.8	7	117.8	0.71	0.55	0.16	1.34	8.1	10.9	UnDef	0.08
[redacted].14	35.7	0.15	0.41	4.4	7	117.8	0.73	0.56	0.17	1.33	11.4	15.2	UnDef	0.09
12.47	60.4	0.28	0.46	5.2	8	120.9	0.75	0.57	0.18	1.32	14.5	19.1	UnDef	0.12
12.80	60.9	0.46	0.76	6.6	8	120.9	0.77	0.58	0.19	1.31	14.6	19.1	UnDef	0.14

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5670
CPT File: 717CP009.COR

[illegible]ch (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
13.12	51.4	0.44	0.85	6.9	7	117.8	0.79	0.59	0.20	1.30	16.4	21.4	UnDef	0.12
13.45	40.3	0.25	0.61	8.6	7	117.8	0.81	0.60	0.21	1.29	12.9	16.6	UnDef	0.10
13.78	30.0	0.12	0.38	11.8	7	117.8	0.83	0.61	0.22	1.28	9.6	12.3	UnDef	0.08
14.11	25.6	0.10	0.37	10.2	7	117.8	0.85	0.62	0.23	1.27	8.2	10.4	UnDef	0.08
14.44	26.0	0.15	0.56	15.6	7	117.8	0.87	0.63	0.24	1.26	8.3	10.5	UnDef	0.09
14.76	27.3	0.18	0.64	19.6	7	117.8	0.89	0.64	0.25	1.25	8.7	10.9	UnDef	0.09
15.09	25.7	0.15	0.59	16.9	7	117.8	0.91	0.65	0.26	1.25	8.2	10.2	UnDef	0.09
15.42	21.2	0.11	0.52	19.9	7	117.8	0.93	0.65	0.27	1.24	6.8	8.4	UnDef	0.09
15.75	20.9	0.16	0.77	18.4	6	114.6	0.94	0.66	0.28	1.23	8.0	9.8	1.59	0.09
16.08	22.3	0.16	0.72	19.9	6	114.6	0.96	0.67	0.29	1.22	8.5	10.4	1.71	0.09
16.40	29.5	0.14	0.46	23.0	7	117.8	0.98	0.68	0.30	1.21	9.4	11.4	UnDef	0.08
16.73	42.1	0.09	0.20	16.5	8	120.9	1.00	0.69	0.31	1.20	10.1	12.1	UnDef	0.09
17.06	45.8	0.20	0.43	19.4	8	120.9	1.02	0.70	0.32	1.20	11.0	13.1	UnDef	0.09
17.39	42.6	0.34	0.80	33.2	7	117.8	1.04	0.71	0.33	1.19	13.6	16.1	UnDef	0.11
17.72	49.9	0.53	1.05	35.5	7	117.8	1.06	0.72	0.34	1.18	15.9	18.8	UnDef	0.12
18.04	53.6	0.61	1.13	29.7	7	117.8	1.08	0.73	0.35	1.17	17.1	20.1	UnDef	0.13
18.37	52.0	0.57	1.10	34.1	7	117.8	1.10	0.74	0.36	1.17	16.6	19.3	UnDef	0.13
18.70	68.4	0.87	1.27	35.3	7	117.8	1.12	0.75	0.37	1.16	21.8	25.3	UnDef	0.17
19.03	125.1	1.23	0.99	29.8	8	120.9	1.14	0.75	0.38	1.15	30.0	34.5	UnDef	0.39
19.36	150.1	2.87	1.91	6.1	7	117.8	1.16	0.76	0.39	1.14	47.9	54.8	UnDef	0.00
19.68	169.6	4.20	2.47	9.9	7	117.8	1.18	0.77	0.40	1.14	54.1	61.6	UnDef	0.00
20.01	205.8	5.68	2.76	15.2	7	117.8	1.20	0.78	0.41	1.13	65.7	74.3	UnDef	0.00
20.34	294.7	6.77	2.30	41.1	7	117.8	1.22	0.79	0.42	1.12	94.1	105.8	UnDef	0.00
20.67	300.7	6.45	2.14	1.7	8	120.9	1.24	0.80	0.43	1.12	72.0	80.5	UnDef	0.00
21.00	210.1	4.76	2.26	-0.9	7	117.8	1.25	0.81	0.44	1.11	67.1	74.5	UnDef	0.00
21.33	168.7	4.00	2.37	4.3	7	117.8	1.27	0.82	0.46	1.11	53.9	59.5	UnDef	0.00
21.65	169.3	3.96	2.34	7.8	7	117.8	1.29	0.83	0.47	1.10	54.0	59.4	UnDef	0.00
[illegible]98	121.1	3.61	2.98	8.4	6	114.6	1.31	0.84	0.48	1.09	46.4	50.7	9.58	0.00
[illegible]31	59.8	2.17	3.63	36.7	5	114.6	1.33	0.85	0.49	1.09	28.6	31.2	4.68	0.44
22.64	67.4	1.40	2.08	19.1	7	117.8	1.35	0.85	0.50	1.08	21.5	23.3	UnDef	0.23
22.97	101.1	1.47	1.46	20.7	8	120.9	1.37	0.86	0.51	1.08	24.2	26.0	UnDef	0.30
23.29	112.4	1.98	1.76	19.7	7	117.8	1.39	0.87	0.52	1.07	35.9	38.4	UnDef	0.40
23.62	72.3	1.66	2.30	54.6	7	117.8	1.41	0.88	0.53	1.06	23.1	24.6	UnDef	0.27
23.95	74.0	1.22	1.65	57.3	7	117.8	1.43	0.89	0.54	1.06	23.6	25.0	UnDef	0.21
24.28	49.8	0.90	1.80	41.2	7	117.8	1.45	0.90	0.55	1.05	15.9	16.8	UnDef	0.16
24.61	32.3	0.37	1.13	70.2	7	117.8	1.47	0.91	0.56	1.05	10.3	10.8	UnDef	0.11
24.93	19.1	0.20	1.02	115.7	6	114.6	1.49	0.92	0.57	1.04	7.3	7.6	1.41	0.11
25.26	16.7	0.11	0.66	72.1	6	114.6	1.50	0.93	0.58	1.04	6.4	6.6	1.21	0.09
25.59	9.3	0.18	1.88	100.0	5	114.6	1.52	0.94	0.59	1.03	4.5	4.6	0.62	0.09
25.92	19.5	0.28	1.42	50.1	6	114.6	1.54	0.94	0.60	1.03	7.5	7.7	1.43	0.17
26.25	33.7	0.51	1.50	28.8	6	114.6	1.56	0.95	0.61	1.02	12.9	13.2	2.57	0.13
26.57	30.3	0.52	1.70	27.3	6	114.6	1.58	0.96	0.62	1.02	11.6	11.8	2.30	0.15
26.90	29.1	0.47	1.62	27.3	6	114.6	1.60	0.97	0.63	1.02	11.2	11.3	2.20	0.14
27.23	26.1	0.33	1.27	24.3	6	114.6	1.62	0.98	0.64	1.01	10.0	10.1	1.96	0.12
27.56	28.3	0.25	0.87	23.8	7	117.8	1.64	0.99	0.65	1.01	9.0	9.1	UnDef	0.10
27.89	34.6	0.34	0.99	24.1	7	117.8	1.66	1.00	0.66	1.00	11.0	11.1	UnDef	0.11
28.21	27.9	0.54	1.94	30.9	6	114.6	1.67	1.00	0.67	1.00	10.7	10.7	2.10	0.22
28.54	18.9	0.40	2.12	89.6	6	114.6	1.69	1.01	0.68	0.99	7.3	7.2	1.38	0.15
28.87	24.8	0.57	2.28	87.8	6	114.6	1.71	1.02	0.69	0.99	9.5	9.4	1.85	0.24
29.20	32.6	0.64	1.97	88.9	6	114.6	1.73	1.03	0.70	0.99	12.5	12.3	2.47	0.19
29.53	28.4	0.61	2.16	109.3	6	114.6	1.75	1.04	0.71	0.98	10.9	10.7	2.13	0.31
29.86	25.9	0.50	1.93	117.5	6	114.6	1.77	1.05	0.72	0.98	9.9	9.7	1.93	0.26
30.18	23.2	0.47	2.03	108.3	6	114.6	1.79	1.06	0.73	0.97	8.9	8.7	1.72	0.21
30.59	20.2	0.35	1.75	109.3	6	114.6	1.81	1.07	0.74	0.97	7.7	7.5	1.47	0.16
31.00	18.2	0.35	1.90	103.5	6	114.6	1.83	1.08	0.76	0.96	7.0	6.7	1.31	0.14
31.33	14.5	0.31	2.14	93.5	5	114.6	1.85	1.09	0.77	0.96	6.9	6.7	1.01	0.11
31.66	12.1	0.22	1.83	104.5	5	114.6	1.87	1.09	0.78	0.96	5.8	5.5	0.81	0.10
31.99	14.4	0.31	2.17	83.9	5	114.6	1.89	1.10	0.79	0.95	6.9	6.5	1.00	0.11
[illegible]32	12.2	0.25	2.01	78.4	5	114.6	1.91	1.11	0.80	0.95	5.8	5.5	0.82	0.10
[illegible]64	10.8	0.19	1.72	82.8	5	114.6	1.93	1.12	0.81	0.94	5.2	4.9	0.71	0.09
32.97	9.7	0.10	0.98	90.8	5	114.6	1.95	1.13	0.82	0.94	4.7	4.4	0.62	0.09
33.30	8.8	0.05	0.57	91.3	6	114.6	1.97	1.14	0.83	0.94	3.4	3.1	0.54	0.09

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5670
CPT File: 717CP009.COR

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
33.63	11.5	0.05	0.44	97.1	6	114.6	1.98	1.15	0.84	0.93	4.4	4.1	0.76	0.09
33.96	15.1	0.05	0.33	84.6	6	114.6	2.00	1.15	0.85	0.93	5.8	5.4	1.05	0.00
34.28	13.6	0.08	0.55	98.1	6	114.6	2.02	1.16	0.86	0.93	5.2	4.8	0.93	0.10
34.61	24.8	0.19	0.75	106.3	7	117.8	2.04	1.17	0.87	0.92	7.9	7.3	UnDef	0.10
34.94	28.3	0.35	1.24	101.2	6	114.6	2.06	1.18	0.88	0.92	10.8	10.0	2.10	0.14
35.27	34.4	0.66	1.91	93.0	6	114.6	2.08	1.19	0.89	0.92	13.2	12.1	2.59	0.24
35.60	29.2	0.63	2.16	63.0	6	114.6	2.10	1.20	0.90	0.91	11.2	10.2	2.17	0.29
35.92	21.2	0.37	1.75	76.1	6	114.6	2.12	1.21	0.91	0.91	8.1	7.4	1.53	0.16
36.25	14.6	0.21	1.44	71.4	6	114.6	2.14	1.21	0.92	0.91	5.6	5.1	1.00	0.11
36.58	8.3	0.09	1.08	83.9	5	114.6	2.15	1.22	0.93	0.90	4.0	3.6	0.50	0.08
36.91	7.3	0.03	0.41	88.1	1	111.4	2.17	1.23	0.94	0.90	3.5	3.2	0.41	0.00
37.24	5.2	0.03	0.57	100.7	1	111.4	2.19	1.24	0.95	0.90	2.5	2.3	0.24	0.00
37.57	7.1	0.04	0.56	108.7	1	111.4	2.21	1.25	0.96	0.90	3.4	3.1	0.39	0.00
37.89	9.6	0.10	1.05	111.1	5	114.6	2.23	1.26	0.97	0.89	4.6	4.1	0.59	0.09
38.22	9.5	0.17	1.75	101.1	5	114.6	2.25	1.26	0.98	0.89	4.5	4.0	0.58	0.09
38.55	10.9	0.14	1.29	77.2	5	114.6	2.27	1.27	0.99	0.89	5.2	4.6	0.69	0.09
38.88	10.5	0.08	0.72	35.7	6	114.6	2.28	1.28	1.00	0.88	4.0	3.5	0.66	0.09
39.21	7.5	0.06	0.80	56.7	5	114.6	2.30	1.29	1.01	0.88	3.6	3.2	0.41	0.08
39.53	7.4	0.06	0.74	70.4	5	114.6	2.32	1.30	1.02	0.88	3.6	3.1	0.41	0.08
39.86	7.5	0.04	0.53	79.5	1	111.4	2.34	1.31	1.03	0.87	3.6	3.2	0.42	0.00
40.19	6.7	0.03	0.45	78.5	1	111.4	2.36	1.32	1.04	0.87	3.2	2.8	0.35	0.00
40.52	6.9	0.04	0.51	80.3	1	111.4	2.38	1.32	1.05	0.87	3.3	2.9	0.36	0.00
40.85	5.8	0.04	0.60	82.3	1	111.4	2.40	1.33	1.06	0.87	2.8	2.4	0.27	0.00
41.17	6.5	0.03	0.46	86.9	1	111.4	2.41	1.34	1.07	0.86	3.1	2.7	0.33	0.00
41.50	6.6	0.03	0.45	74.7	1	111.4	2.43	1.35	1.08	0.86	3.2	2.7	0.34	0.00
41.83	6.2	0.03	0.49	82.7	1	111.4	2.45	1.36	1.09	0.86	3.0	2.5	0.30	0.00
42.16	6.7	0.03	0.45	86.1	1	111.4	2.47	1.36	1.11	0.86	3.2	2.8	0.34	0.00
[illegible]49	7.1	0.03	0.42	87.5	1	111.4	2.49	1.37	1.12	0.85	3.4	2.9	0.37	0.00
[illegible]81	8.5	0.03	0.35	78.8	1	111.4	2.51	1.38	1.13	0.85	4.1	3.5	0.48	0.00
43.14	7.5	0.03	0.40	74.5	1	111.4	2.52	1.39	1.14	0.85	3.6	3.1	0.40	0.00
43.47	6.7	0.03	0.45	90.0	1	111.4	2.54	1.40	1.15	0.85	3.2	2.7	0.33	0.00
43.80	7.7	0.04	0.52	90.5	1	111.4	2.56	1.40	1.16	0.84	3.7	3.1	0.41	0.00
44.13	9.2	0.09	0.98	70.4	5	114.6	2.58	1.41	1.17	0.84	4.4	3.7	0.53	0.09
44.45	9.4	0.11	1.12	66.4	5	114.6	2.60	1.42	1.18	0.84	4.5	3.8	0.55	0.09
44.78	11.4	0.18	1.59	70.4	5	114.6	2.62	1.43	1.19	0.84	5.4	4.6	0.70	0.09
45.11	13.2	0.35	2.67	34.7	5	114.6	2.63	1.44	1.20	0.83	6.3	5.3	0.84	0.00
45.44	12.7	0.39	3.08	37.8	4	114.6	2.65	1.45	1.21	0.83	8.1	6.7	0.80	0.00
45.77	10.4	0.27	2.60	49.6	5	114.6	2.67	1.45	1.22	0.83	5.0	4.1	0.62	0.00
46.10	7.9	0.17	2.16	41.4	4	114.6	2.69	1.46	1.23	0.83	5.0	4.2	0.42	0.00
46.42	7.9	0.13	1.66	56.3	5	114.6	2.71	1.47	1.24	0.82	3.8	3.1	0.41	0.08
46.75	9.3	0.14	1.51	57.1	5	114.6	2.73	1.48	1.25	0.82	4.4	3.7	0.52	0.08
47.08	10.0	0.22	2.21	54.5	5	114.6	2.75	1.49	1.26	0.82	4.8	3.9	0.58	0.00
47.41	15.6	0.40	2.54	78.4	5	114.6	2.77	1.50	1.27	0.82	7.5	6.1	1.03	0.10
47.74	17.5	0.40	2.27	27.9	5	114.6	2.79	1.51	1.28	0.81	8.4	6.8	1.18	0.11
48.06	14.8	1.57	10.61	42.0	3	111.4	2.80	1.51	1.29	0.81	14.2	11.5	0.96	0.00
48.39	126.6	2.20	1.73	-0.2	7	117.8	2.82	1.52	1.30	0.81	40.4	32.7	UnDef	0.38
48.72	120.4	2.10	1.74	-21.2	7	117.8	2.84	1.53	1.31	0.81	38.4	31.1	UnDef	0.36
49.05	67.3	1.82	2.71	-20.2	6	114.6	2.86	1.54	1.32	0.81	25.8	20.8	5.16	0.00

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5670
Job No: 04-717
[redacted]ent: MACTEC
Project: TVA Kingston
Site: CPT-9
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 13:20
CPT File: 717CP009.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 2.05 (ft): 6.7
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-03	0.00	1000.0	0.37	10	174.2	0.0	174.2	0.0	50	95.0	1.0	-0.31	0.0	43.5
0.49	5.0E-03	0.00	1000.0	1.33	9	183.9	0.0	183.9	1.8	50	95.0	1.0	-0.44	0.0	46.0
0.82	5.0E-02	0.00	1000.0	0.90	10	490.3	0.0	490.3	0.0	50	95.0	1.0	-0.39	0.0	98.1
1.15	5.0E-02	0.00	1000.0	0.94	10	562.5	0.0	562.5	0.2	50	95.0	1.0	-0.40	0.0	112.5
1.48	5.0E-02	0.00	1000.0	1.01	10	735.6	0.0	735.6	0.5	50	95.0	1.0	-0.41	0.0	147.1
[redacted]80	5.0E-02	0.00	1000.0	1.43	12	763.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.45	UnDef	UnDef
[redacted]13	5.0E-03	0.00	1000.0	1.45	12	588.1	UnDef	UnDef	0.0	50	95.0	1.0	-0.46	UnDef	UnDef
2.46	5.0E+00	0.00	1000.0	0.52	10	596.4	0.0	596.4	0.0	50	95.0	1.0	-0.33	0.0	99.4
2.79	5.0E-02	0.00	1000.0	0.78	10	524.5	0.0	524.5	0.0	50	95.0	1.0	-0.38	0.0	104.9
3.12	5.0E-02	0.00	1000.0	0.94	10	488.4	0.0	488.4	0.2	50	95.0	1.0	-0.40	0.0	97.7
3.44	5.0E-02	0.00	1000.0	0.85	10	561.9	0.0	561.9	0.0	50	95.0	1.0	-0.39	0.0	112.4
3.77	5.0E-02	0.00	1000.0	0.99	10	657.7	0.0	657.7	0.4	50	95.0	1.0	-0.40	0.0	131.5
4.10	5.0E-02	0.00	1000.0	1.05	9	626.4	0.0	626.4	0.7	50	95.0	1.0	-0.41	0.0	124.4
4.43	5.0E-02	0.00	1000.0	1.01	10	549.9	0.0	549.9	0.5	50	95.0	1.0	-0.41	0.0	107.6
4.76	5.0E-02	0.00	824.2	0.97	9	438.0	0.0	438.0	0.7	50	95.0	1.0	-0.38	0.0	85.7
5.09	5.0E-02	0.00	567.6	0.95	9	312.1	0.0	312.1	1.5	50	95.0	1.0	-0.35	0.0	61.1
5.41	5.0E-02	0.00	430.3	0.87	9	244.3	0.0	244.3	1.9	48	92.9	1.0	-0.31	0.0	47.8
5.74	5.0E-02	0.00	354.6	0.51	10	207.4	0.0	207.4	0.4	48	88.2	1.0	-0.24	0.0	40.6
6.07	5.0E-03	0.00	265.5	0.59	9	159.8	0.0	159.8	2.0	46	80.7	1.0	-0.23	0.0	39.1
6.40	5.0E-03	0.00	244.6	0.61	9	151.1	0.0	151.1	2.5	46	79.1	1.0	-0.22	0.0	37.0
6.73	5.0E-03	0.00	211.2	0.51	9	133.8	0.0	133.8	2.5	46	75.6	1.0	-0.20	0.0	32.7
7.05	5.0E-03	0.00	133.0	0.38	9	85.5	0.0	85.5	3.8	44	62.8	1.0	-0.13	0.0	20.9
7.38	5.0E-04	0.00	78.2	0.58	9	51.1	6.8	57.9	9.4	42	48.0	1.0	-0.12	1.3	18.0
7.79	5.0E-04	0.00	51.9	0.41	9	34.6	0.0	34.6	5.0	38	36.9	1.0	-0.05	0.0	11.3
8.20	5.0E-04	0.01	44.7	0.29	9	30.3	0.0	30.3	5.0	38	33.0	1.0	-0.01	0.0	9.9
8.53	5.0E-04	0.00	57.7	0.20	9	39.3	0.0	39.3	5.0	40	40.5	1.0	-0.01	0.0	12.8
8.86	5.0E-04	0.00	56.3	0.32	9	38.7	0.0	38.7	5.0	40	40.1	1.0	-0.04	0.0	12.6
9.19	5.0E-06	0.00	87.6	3.27	7	60.4	55.6	116.1	23.0	UnDef	UnDef	10.0	UnDef	12.7	42.2
9.51	5.0E-06	0.00	78.7	3.68	6	54.9	67.3	122.2	25.6	UnDef	UnDef	10.0	UnDef	14.1	41.0
9.84	5.0E-06	0.01	25.3	2.96	6	18.4	73.5	91.9	38.9	UnDef	UnDef	10.0	UnDef	9.0	18.0
10.17	5.0E-06	0.03	13.4	1.03	6	10.2	40.9	51.1	37.7	UnDef	UnDef	5.1	UnDef	5.0	10.0
10.50	5.0E-07	0.04	8.9	2.39	4	7.1	28.6	35.7	57.4	UnDef	UnDef	2.8	UnDef	4.7	9.3
10.83	5.0E-05	0.00	22.6	0.59	7	17.0	17.2	34.2	23.9	34	30.0	10.0	-0.01	3.1	9.7
11.15	5.0E-05	-0.01	30.9	0.42	7	23.0	0.0	23.0	5.0	36	30.0	10.0	-0.01	0.0	9.0
11.48	5.0E-04	0.00	35.8	0.49	7	26.8	0.0	26.8	5.0	38	30.0	1.0	-0.03	0.0	8.7
11.81	5.0E-04	-0.01	44.6	0.28	9	33.4	0.0	33.4	5.0	38	35.9	1.0	-0.01	0.0	10.9
[redacted]14	5.0E-04	0.00	62.1	0.42	9	46.5	0.0	46.5	5.0	40	45.4	1.0	-0.07	0.0	15.2
[redacted]47	5.0E-03	0.00	104.3	0.46	9	78.2	0.0	78.2	5.0	42	60.2	1.0	-0.12	0.0	19.1
12.80	5.0E-03	0.00	103.4	0.77	9	78.2	8.6	86.8	8.7	42	60.2	1.0	-0.17	1.3	20.4

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-04	0.00	85.7	0.86	9	65.5	12.4	77.8	10.9	42	55.1	1.0	-0.16	2.4	23.7
13.45	5.0E-04	0.00	65.9	0.62	9	51.0	10.3	61.3	11.3	40	48.0	1.0	-0.11	2.0	18.6
13.78	5.0E-04	0.01	47.8	0.40	9	37.6	0.0	37.6	5.0	38	39.2	1.0	-0.04	0.0	12.3
14.11	5.0E-04	0.00	40.0	0.39	9	31.8	0.0	31.8	5.0	38	34.5	1.0	-0.02	0.0	10.4
14.44	5.0E-04	0.01	40.1	0.58	7	32.1	13.5	45.7	16.1	38	34.7	1.0	-0.06	2.4	12.9
14.76	5.0E-04	0.01	41.5	0.66	7	33.5	15.0	48.5	16.6	38	35.9	1.0	-0.07	2.6	13.5
15.09	5.0E-04	0.01	38.4	0.61	7	31.3	14.6	45.9	16.9	38	34.0	1.0	-0.06	2.5	12.7
15.42	5.0E-04	0.02	31.0	0.54	7	25.7	15.1	40.8	18.9	36	30.0	1.0	-0.03	2.5	10.9
15.75	5.0E-05	0.01	30.1	0.80	7	25.1	21.0	46.1	22.1	36	30.0	10.0	-0.06	3.9	13.7
16.08	5.0E-05	0.02	31.8	0.75	7	26.6	19.5	46.1	20.8	36	30.0	10.0	-0.06	3.7	14.2
16.40	5.0E-04	0.01	41.9	0.47	9	35.0	0.0	35.0	5.0	38	37.2	1.0	-0.04	0.0	11.4
16.73	5.0E-03	0.00	59.5	0.21	9	49.6	0.0	49.6	5.0	40	47.2	1.0	-0.01	0.0	12.1
17.06	5.0E-03	0.01	64.1	0.44	9	53.6	0.0	53.6	5.0	40	49.4	1.0	-0.08	0.0	13.1
17.39	5.0E-04	0.02	58.6	0.82	9	49.5	16.1	65.6	14.2	40	47.1	1.0	-0.12	2.9	19.1
17.72	5.0E-04	0.02	68.0	1.08	9	57.6	20.1	77.7	14.7	40	51.5	1.0	-0.16	3.6	22.4
18.04	5.0E-04	0.01	72.3	1.15	9	61.6	21.2	82.8	14.6	40	53.4	1.0	-0.17	3.8	23.9
18.37	5.0E-04	0.01	69.2	1.12	7	59.3	21.1	80.4	14.8	40	52.3	1.0	-0.16	3.8	23.1
18.70	5.0E-04	0.01	90.3	1.29	9	77.6	22.3	99.9	13.4	42	60.0	1.0	-0.20	4.1	29.4
19.03	5.0E-03	0.00	164.3	0.99	9	141.0	8.2	149.1	7.0	44	77.1	1.0	-0.23	1.2	35.7
19.36	5.0E-04	0.00	195.0	1.93	9	168.1	30.1	198.1	10.7	44	82.2	1.0	-0.33	5.8	60.6
19.68	5.0E-04	0.00	217.9	2.49	9	188.8	45.2	234.0	12.2	46	85.5	1.0	-0.39	8.5	70.0
20.01	5.0E-04	0.00	261.6	2.78	12	227.7	UnDef	UnDef	0.0	46	90.9	1.0	-0.44	UnDef	UnDef
20.34	5.0E-04	0.00	371.0	2.31	12	324.3	UnDef	UnDef	0.0	48	95.0	1.0	-0.43	UnDef	UnDef
20.67	5.0E-03	0.00	374.1	2.15	12	328.9	UnDef	UnDef	0.0	48	95.0	1.0	-0.42	UnDef	UnDef
21.00	5.0E-04	0.00	257.9	2.28	9	228.5	38.4	266.9	10.4	46	91.0	1.0	-0.39	7.4	81.9
21.33	5.0E-04	0.00	204.5	2.39	9	182.5	43.9	226.4	12.3	46	84.5	1.0	-0.37	8.2	67.7
21.65	5.0E-04	0.00	202.9	2.36	9	182.1	43.3	225.4	12.2	46	84.5	1.0	-0.37	8.1	67.5
[illegible]98	5.0E-05	0.00	143.1	3.02	7	129.5	63.4	193.0	17.3	44	74.7	10.0	-0.38	13.1	63.8
[illegible]31	5.0E-06	0.01	69.2	3.71	6	63.7	93.3	156.9	27.3	UnDef	UnDef	10.0	UnDef	18.4	49.6
22.64	5.0E-04	0.00	77.4	2.12	7	71.4	44.7	116.1	19.4	40	57.6	1.0	-0.24	7.4	30.7
22.97	5.0E-03	0.00	115.5	1.48	9	106.4	26.0	132.5	12.4	42	69.1	1.0	-0.24	3.7	29.7
23.29	5.0E-04	0.00	127.2	1.78	9	117.8	32.7	150.5	13.1	44	72.0	1.0	-0.27	6.0	44.5
23.62	5.0E-04	0.02	80.3	2.34	7	75.3	50.5	125.8	20.0	42	59.1	1.0	-0.26	8.2	32.8
23.95	5.0E-04	0.02	81.4	1.68	7	76.7	34.4	111.1	16.6	42	59.7	1.0	-0.22	6.0	31.0
24.28	5.0E-04	0.02	53.7	1.86	7	51.4	43.4	94.7	22.1	40	48.2	1.0	-0.19	6.7	23.5
24.61	5.0E-04	0.05	33.9	1.19	7	33.2	33.1	66.3	23.7	36	35.6	1.0	-0.09	4.9	15.7
24.93	5.0E-05	0.17	19.2	1.11	7	19.5	49.6	69.1	31.9	34	30.0	8.8	-0.02	6.2	13.9
25.26	5.0E-05	0.11	16.4	0.73	7	16.9	37.4	54.4	30.8	32	30.0	6.9	0.02	5.0	11.6
25.59	5.0E-06	0.33	8.3	2.25	4	9.4	37.7	47.2	58.1	UnDef	UnDef	2.5	UnDef	4.6	9.2
25.92	5.0E-05	0.05	19.0	1.54	6	19.6	78.4	98.0	35.6	32	30.0	8.7	-0.06	7.7	15.4
26.25	5.0E-05	0.01	33.7	1.58	7	33.8	46.0	79.7	26.6	36	36.2	10.0	-0.12	7.5	20.7
26.57	5.0E-05	0.01	29.9	1.80	7	30.3	59.3	89.6	29.8	36	33.0	10.0	-0.12	8.4	20.2
26.90	5.0E-05	0.01	28.4	1.71	7	29.0	58.5	87.4	30.0	36	31.8	10.0	-0.11	8.2	19.5
27.23	5.0E-05	0.00	25.1	1.35	7	25.8	48.7	74.5	29.5	34	30.0	10.0	-0.08	7.0	17.1
27.56	5.0E-04	0.00	27.0	0.92	7	27.9	30.9	58.8	24.7	36	30.7	1.0	-0.06	4.5	13.6
27.89	5.0E-04	0.00	33.1	1.04	7	33.9	30.9	64.8	22.8	36	36.3	1.0	-0.09	4.7	15.8
28.21	5.0E-05	0.01	26.1	2.06	6	27.2	88.0	115.2	33.6	36	30.0	10.0	-0.12	9.8	20.4
28.54	5.0E-05	0.12	17.0	2.32	6	18.4	73.7	92.1	42.8	32	30.0	7.3	-0.07	7.2	14.4
28.87	5.0E-05	0.09	22.6	2.45	6	24.1	96.2	120.3	38.2	34	30.0	10.0	-0.11	9.4	18.8
29.20	5.0E-05	0.07	30.0	2.08	7	31.4	75.7	107.2	31.5	36	34.1	10.0	-0.13	9.7	22.1
29.53	5.0E-05	0.10	25.6	2.30	6	27.2	108.9	136.2	35.3	34	30.0	10.0	-0.12	10.7	21.3
29.86	5.0E-05	0.12	23.1	2.07	6	24.8	99.2	124.0	35.7	34	30.0	10.0	-0.09	9.7	19.4
30.18	5.0E-05	0.12	20.3	2.20	6	22.1	88.6	110.7	38.7	34	30.0	9.7	-0.09	8.7	17.3
30.59	5.0E-05	0.14	17.3	1.92	6	19.2	76.7	95.8	40.0	32	30.0	7.5	-0.05	7.5	15.0
31.00	5.0E-05	0.15	15.2	2.12	6	17.1	68.6	85.7	43.8	32	30.0	6.1	-0.05	6.7	13.4
31.33	5.0E-06	0.17	11.6	2.46	6	13.6	54.4	68.0	51.6	UnDef	UnDef	4.1	UnDef	6.7	13.3
31.66	5.0E-06	0.24	9.3	2.17	4	11.3	45.1	56.4	54.9	UnDef	UnDef	3.0	UnDef	5.5	11.0
31.99	5.0E-06	0.15	11.3	2.49	4	13.4	53.5	66.9	52.5	UnDef	UnDef	3.9	UnDef	6.5	13.1
[illegible]32	5.0E-06	0.16	9.3	2.38	4	11.3	45.4	56.7	56.4	UnDef	UnDef	2.9	UnDef	5.5	11.1
[illegible]64	5.0E-06	0.20	7.9	2.10	4	10.0	39.8	49.8	58.4	UnDef	UnDef	2.4	UnDef	4.9	9.7
32.97	5.0E-06	0.26	6.9	1.22	6	9.0	35.8	44.8	54.5	UnDef	UnDef	2.0	UnDef	4.4	8.8
33.30	5.0E-05	0.30	6.0	0.74	6	8.0	32.2	40.2	52.3	30	30.0	1.6	0.13	3.1	6.3

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
[redacted] No: 04-0401-1123-5747
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-12A
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 14:54
CPT File: 717CP12A.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 6.18 (ft): 20.3
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.16	25.4	0.60	2.35	0.4	6	114.6	0.01	0.01	0.00	2.00	9.7	19.4	2.03	0.00
0.49	46.8	0.78	1.67	3.8	7	117.8	0.03	0.03	0.00	2.00	14.9	29.8	UnDef	0.00
0.82	27.7	2.33	8.42	6.9	3	111.4	0.05	0.05	0.00	2.00	26.5	53.0	2.21	0.00
1.15	428.8	5.44	1.27	28.9	9	124.1	0.07	0.07	0.00	2.00	82.1	164.3	UnDef	0.00
[redacted]48	863.4	15.20	1.76	59.4	12	120.9	0.09	0.09	0.00	2.00	413.4	826.9	UnDef	0.00
[redacted]80	799.8	20.59	2.57	124.5	12	120.9	0.11	0.11	0.00	2.00	383.0	766.0	UnDef	0.00
2.13	692.7	19.41	2.80	175.7	12	120.9	0.13	0.13	0.00	2.00	331.7	663.4	UnDef	0.00
2.46	598.6	13.06	2.18	116.2	12	120.9	0.15	0.15	0.00	2.00	286.6	573.2	UnDef	0.00
2.79	605.3	14.93	2.47	86.2	12	120.9	0.17	0.17	0.00	2.00	289.8	579.7	UnDef	0.00
3.12	602.3	14.93	2.48	88.4	12	120.9	0.19	0.19	0.00	2.00	288.4	576.8	UnDef	0.00
3.44	524.1	13.42	2.56	77.9	12	120.9	0.21	0.21	0.00	2.00	251.0	501.9	UnDef	0.00
3.77	439.2	11.77	2.68	59.4	12	120.9	0.23	0.23	0.00	2.00	210.3	420.6	UnDef	0.00
4.10	328.1	9.37	2.85	51.8	12	120.9	0.25	0.25	0.00	2.00	157.1	314.3	UnDef	0.00
4.43	209.7	7.87	3.75	46.8	12	120.9	0.27	0.27	0.00	1.94	100.4	194.9	UnDef	0.00
4.76	139.4	5.28	3.79	45.7	12	120.9	0.29	0.29	0.00	1.87	66.7	125.0	UnDef	0.00
5.09	120.4	2.46	2.04	30.6	7	117.8	0.30	0.30	0.00	1.81	38.4	69.6	UnDef	0.00
5.41	124.5	1.65	1.33	23.1	8	120.9	0.32	0.32	0.00	1.76	29.8	52.3	UnDef	0.00
5.74	129.1	2.02	1.56	16.5	8	120.9	0.34	0.34	0.00	1.70	30.9	52.7	UnDef	0.00
6.07	100.4	1.89	1.88	11.6	7	117.8	0.36	0.36	0.00	1.66	32.0	53.1	UnDef	0.00
6.40	68.5	1.63	2.39	7.9	6	114.6	0.38	0.38	0.00	1.62	26.2	42.4	5.45	0.33
6.73	36.5	1.09	2.99	6.8	5	114.6	0.40	0.40	0.00	1.58	17.5	27.6	2.89	0.18
7.05	18.7	0.47	2.49	7.2	5	114.6	0.42	0.42	0.00	1.54	9.0	13.8	1.46	0.12
7.38	14.3	0.22	1.50	11.3	6	114.6	0.44	0.44	0.00	1.51	5.5	8.3	1.11	0.09
7.79	14.6	0.30	2.05	15.7	5	114.6	0.46	0.46	0.00	1.47	7.0	10.3	1.13	0.11
8.20	16.9	0.43	2.55	18.9	5	114.6	0.49	0.49	0.00	1.43	8.1	11.6	1.31	0.15
8.53	13.1	0.49	3.70	20.3	3	111.4	0.50	0.50	0.00	1.41	12.6	17.7	1.01	0.15
8.86	23.1	1.24	5.37	20.7	3	111.4	0.52	0.52	0.00	1.38	22.1	30.6	1.81	0.00
9.19	25.7	1.72	6.69	12.3	3	111.4	0.54	0.54	0.00	1.36	24.6	33.5	2.01	0.00
9.51	15.8	1.47	9.28	-2.0	3	111.4	0.56	0.56	0.00	1.34	15.2	20.3	1.22	0.00
9.84	14.6	1.04	7.13	-2.2	3	111.4	0.58	0.58	0.00	1.32	13.9	18.3	1.12	0.00
10.17	8.5	0.70	8.21	-2.9	3	111.4	0.60	0.60	0.00	1.30	8.1	10.5	0.63	0.00
10.50	5.3	0.49	9.35	-3.6	2	79.6	0.61	0.61	0.00	1.28	5.0	6.4	0.37	0.00
10.83	7.1	0.52	7.23	-3.4	3	111.4	0.63	0.63	0.00	1.26	6.8	8.6	0.52	0.00
11.15	7.3	0.55	7.49	-3.4	3	111.4	0.65	0.65	0.00	1.24	7.0	8.7	0.53	0.00
11.48	14.4	0.68	4.71	-2.6	3	111.4	0.66	0.66	0.00	1.23	13.7	16.9	1.10	0.00
[redacted]81	18.5	0.89	4.83	-0.9	3	111.4	0.68	0.68	0.00	1.21	17.7	21.4	1.42	0.00
[redacted].14	26.5	1.18	4.46	1.3	3	111.4	0.70	0.70	0.00	1.20	25.4	30.4	2.07	0.43
12.47	27.3	1.31	4.81	4.2	3	111.4	0.72	0.72	0.00	1.18	26.1	30.8	2.13	0.44
12.80	36.0	1.80	5.00	8.8	3	111.4	0.74	0.74	0.00	1.16	34.5	40.1	2.82	0.00

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5747
CPT File: 717CP12A.COR

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
33.63	20.5	0.17	0.83	52.0	6	114.6	1.98	1.57	0.42	0.80	7.8	6.3	1.48	0.13
33.96	57.7	0.32	0.55	25.8	8	120.9	2.00	1.58	0.43	0.80	13.8	11.0	UnDef	0.11
34.28	76.7	0.56	0.73	20.5	8	120.9	2.02	1.59	0.44	0.79	18.4	14.6	UnDef	0.14
34.61	81.9	0.51	0.62	16.8	8	120.9	2.04	1.59	0.45	0.79	19.6	15.5	UnDef	0.14
34.94	65.5	0.53	0.81	11.1	8	120.9	2.06	1.60	0.46	0.79	15.7	12.4	UnDef	0.13
35.27	54.6	0.52	0.96	13.7	7	117.8	2.08	1.61	0.47	0.79	17.4	13.7	UnDef	0.13
35.60	43.5	0.40	0.92	15.1	7	117.8	2.10	1.62	0.48	0.79	13.9	10.9	UnDef	0.12
35.92	38.1	0.30	0.79	15.7	7	117.8	2.12	1.63	0.49	0.78	12.1	9.5	UnDef	0.11
36.25	36.3	0.30	0.83	15.8	7	117.8	2.14	1.64	0.50	0.78	11.6	9.0	UnDef	0.12
36.58	38.0	0.29	0.76	16.6	7	117.8	2.16	1.65	0.51	0.78	12.1	9.5	UnDef	0.11
36.91	43.1	0.33	0.77	16.3	7	117.8	2.18	1.66	0.52	0.78	13.8	10.7	UnDef	0.11
37.24	39.3	0.34	0.87	16.7	7	117.8	2.20	1.67	0.53	0.77	12.6	9.7	UnDef	0.12
37.57	32.7	0.29	0.87	17.3	7	117.8	2.22	1.68	0.54	0.77	10.4	8.1	UnDef	0.13
37.89	36.8	0.15	0.41	16.1	7	117.8	2.24	1.69	0.55	0.77	11.7	9.0	UnDef	0.00
38.22	37.3	0.17	0.44	13.3	7	117.8	2.26	1.70	0.56	0.77	11.9	9.1	UnDef	0.00
38.55	35.2	0.22	0.63	14.9	7	117.8	2.27	1.70	0.57	0.77	11.2	8.6	UnDef	0.11
38.88	36.7	0.16	0.44	15.7	7	117.8	2.29	1.71	0.58	0.76	11.7	9.0	UnDef	0.00
39.21	39.5	0.18	0.44	12.4	7	117.8	2.31	1.72	0.59	0.76	12.6	9.6	UnDef	0.00
39.53	43.5	0.28	0.63	11.9	7	117.8	2.33	1.73	0.60	0.76	13.9	10.6	UnDef	0.11
39.86	52.4	0.30	0.56	12.9	8	120.9	2.35	1.74	0.61	0.76	12.5	9.5	UnDef	0.11
40.19	56.2	0.37	0.65	13.4	8	120.9	2.37	1.75	0.62	0.76	13.4	10.2	UnDef	0.11
40.52	41.9	0.30	0.72	14.6	7	117.8	2.39	1.76	0.63	0.75	13.4	10.1	UnDef	0.11
40.85	29.0	0.29	1.00	16.0	7	117.8	2.41	1.77	0.64	0.75	9.3	7.0	UnDef	0.19
41.17	30.6	0.21	0.67	18.8	7	117.8	2.43	1.78	0.65	0.75	9.8	7.3	UnDef	0.12
41.50	38.1	0.10	0.26	15.1	8	120.9	2.45	1.79	0.66	0.75	9.1	6.8	UnDef	0.00
41.83	35.7	0.10	0.27	15.3	7	117.8	2.47	1.80	0.67	0.75	11.4	8.5	UnDef	0.00
42.16	35.4	0.02	0.06	18.7	8	120.9	2.49	1.81	0.68	0.74	8.5	6.3	UnDef	0.00
[redacted]49	39.2	0.10	0.24	12.7	8	120.9	2.51	1.82	0.69	0.74	9.4	7.0	UnDef	0.00
[redacted]81	45.3	0.14	0.30	9.2	8	120.9	2.53	1.83	0.70	0.74	10.8	8.0	UnDef	0.08
43.14	49.6	0.22	0.43	7.5	8	120.9	2.55	1.84	0.71	0.74	11.9	8.8	UnDef	0.08
43.47	50.4	0.32	0.63	9.2	8	120.9	2.57	1.84	0.72	0.74	12.1	8.9	UnDef	0.11
43.80	49.4	0.38	0.77	11.1	7	117.8	2.59	1.85	0.73	0.73	15.8	11.6	UnDef	0.12
44.13	47.0	0.37	0.78	13.1	7	117.8	2.61	1.86	0.74	0.73	15.0	11.0	UnDef	0.12
44.45	51.1	0.29	0.57	14.7	8	120.9	2.63	1.87	0.75	0.73	12.2	8.9	UnDef	0.11
44.78	49.6	0.36	0.72	12.7	7	117.8	2.65	1.88	0.76	0.73	15.8	11.5	UnDef	0.12
45.11	47.1	0.40	0.84	14.9	7	117.8	2.67	1.89	0.77	0.73	15.0	10.9	UnDef	0.13
45.44	46.0	0.31	0.66	20.6	7	117.8	2.68	1.90	0.78	0.73	14.7	10.7	UnDef	0.11
45.77	47.7	0.30	0.62	21.4	7	117.8	2.70	1.91	0.80	0.72	15.2	11.0	UnDef	0.11
46.10	45.1	0.34	0.74	23.0	7	117.8	2.72	1.92	0.81	0.72	14.4	10.4	UnDef	0.12
46.42	45.9	0.31	0.68	25.3	7	117.8	2.74	1.93	0.82	0.72	14.6	10.6	UnDef	0.11
46.75	53.5	0.21	0.39	17.4	8	120.9	2.76	1.94	0.83	0.72	12.8	9.2	UnDef	0.08
47.08	52.6	0.29	0.54	11.0	8	120.9	2.78	1.95	0.84	0.72	12.6	9.0	UnDef	0.11
47.41	50.3	0.26	0.52	13.2	8	120.9	2.80	1.96	0.85	0.72	12.1	8.6	UnDef	0.11
47.74	45.6	0.25	0.55	10.7	7	117.8	2.82	1.97	0.86	0.71	14.6	10.4	UnDef	0.11
48.06	47.4	0.22	0.46	6.6	8	120.9	2.84	1.97	0.87	0.71	11.4	8.1	UnDef	0.08
48.39	48.7	0.20	0.41	1.0	8	120.9	2.86	1.98	0.88	0.71	11.7	8.3	UnDef	0.08
48.72	46.7	0.31	0.66	7.9	7	117.8	2.88	1.99	0.89	0.71	14.9	10.6	UnDef	0.12
49.05	53.9	0.18	0.33	5.6	8	120.9	2.90	2.00	0.90	0.71	12.9	9.1	UnDef	0.08
49.38	60.1	0.23	0.38	3.9	8	120.9	2.92	2.01	0.91	0.71	14.4	10.2	UnDef	0.09
49.70	74.9	0.43	0.58	4.8	8	120.9	2.94	2.02	0.92	0.70	17.9	12.6	UnDef	0.12
50.03	86.4	0.72	0.84	7.6	8	120.9	2.96	2.03	0.93	0.70	20.7	14.5	UnDef	0.15
50.36	73.4	1.07	1.45	10.3	7	117.8	2.98	2.04	0.94	0.70	23.4	16.4	UnDef	0.22
50.69	47.2	0.81	1.72	13.7	7	117.8	3.00	2.05	0.95	0.70	15.1	10.5	UnDef	0.00
51.02	48.8	0.47	0.96	20.1	7	117.8	3.02	2.06	0.96	0.70	15.6	10.9	UnDef	0.15
51.34	97.8	0.61	0.62	21.7	8	120.9	3.04	2.07	0.97	0.70	23.4	16.3	UnDef	0.15
51.67	114.6	0.58	0.51	19.1	9	124.1	3.06	2.08	0.98	0.69	21.9	15.2	UnDef	0.16
52.00	112.2	0.52	0.46	26.9	9	124.1	3.08	2.09	0.99	0.69	21.5	14.9	UnDef	0.12
52.33	124.1	1.16	0.94	32.0	8	120.9	3.10	2.10	1.00	0.69	29.7	20.5	UnDef	0.23
[redacted]66	136.8	1.47	1.07	32.4	8	120.9	3.12	2.11	1.01	0.69	32.8	22.6	UnDef	0.28
52.98	148.0	1.58	1.07	33.3	8	120.9	3.14	2.12	1.02	0.69	35.4	24.4	UnDef	0.31
53.31	189.2	1.86	0.99	32.4	9	124.1	3.16	2.13	1.03	0.69	36.2	24.9	UnDef	0.43
53.64	187.4	2.18	1.16	31.2	8	120.9	3.18	2.14	1.04	0.68	44.9	30.7	UnDef	0.00

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Run No: 04-0401-1123-5747
CPT File: 717CP12A.COR

Dpth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
53.97	230.2	2.31	1.00	33.6	9	124.1	3.20	2.15	1.05	0.68	44.1	30.1	UnDef	0.00
54.30	278.1	3.15	1.13	34.2	9	124.1	3.22	2.16	1.06	0.68	53.3	36.3	UnDef	0.00
54.63	255.3	2.98	1.17	34.5	9	124.1	3.24	2.17	1.07	0.68	48.9	33.2	UnDef	0.00
54.95	176.1	1.98	1.13	32.8	8	120.9	3.26	2.18	1.08	0.68	42.2	28.6	UnDef	0.41
55.28	130.6	1.18	0.90	33.2	9	124.1	3.28	2.19	1.09	0.68	25.0	16.9	UnDef	0.23
55.61	113.5	1.04	0.91	33.6	8	120.9	3.30	2.20	1.10	0.67	27.2	18.3	UnDef	0.20
55.94	92.1	0.85	0.93	33.2	8	120.9	3.32	2.21	1.11	0.67	22.1	14.8	UnDef	0.17
56.27	72.5	0.69	0.95	35.1	8	120.9	3.34	2.22	1.12	0.67	17.4	11.7	UnDef	0.16
56.59	72.9	0.55	0.76	37.1	8	120.9	3.36	2.23	1.13	0.67	17.4	11.7	UnDef	0.14
56.92	90.7	0.71	0.78	33.9	8	120.9	3.38	2.24	1.14	0.67	21.7	14.5	UnDef	0.16
57.25	105.7	0.88	0.83	35.7	8	120.9	3.40	2.24	1.15	0.67	25.3	16.9	UnDef	0.18
57.58	122.9	1.15	0.94	37.2	8	120.9	3.42	2.25	1.16	0.67	29.4	19.6	UnDef	0.22
57.91	136.8	1.47	1.08	37.8	8	120.9	3.44	2.26	1.17	0.66	32.8	21.8	UnDef	0.27
58.23	178.1	1.71	0.96	38.1	9	124.1	3.46	2.27	1.18	0.66	34.1	22.6	UnDef	0.37
58.56	166.4	1.82	1.09	37.0	8	120.9	3.48	2.28	1.19	0.66	39.8	26.4	UnDef	0.36
58.89	132.2	1.41	1.07	37.3	8	120.9	3.50	2.29	1.20	0.66	31.7	20.9	UnDef	0.26
59.22	149.8	1.46	0.97	39.1	9	124.1	3.52	2.30	1.21	0.66	28.7	18.9	UnDef	0.29
59.55	187.5	3.34	1.78	41.2	8	120.9	3.54	2.31	1.23	0.66	44.9	29.5	UnDef	0.00
59.87	125.0	4.10	3.28	47.8	6	114.6	3.56	2.32	1.24	0.66	47.9	31.4	9.72	0.00
60.20	217.7	5.04	2.32	166.7	7	117.8	3.58	2.33	1.25	0.66	69.5	45.5	UnDef	0.00
60.53	270.1	6.91	2.56	6.0	7	117.8	3.60	2.34	1.26	0.65	86.2	56.4	UnDef	0.00
60.86	220.0	7.00	3.18	-4.0	12	120.9	3.62	2.35	1.27	0.65	105.4	68.7	UnDef	0.00
61.19	174.2	3.56	2.05	-6.3	7	117.8	3.64	2.36	1.28	0.65	55.6	36.2	UnDef	0.00

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5747
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: CPT-12A
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 14:54
CPT File: 717CP12A.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 6.18 (ft): 20.3
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(N1)60	(N1)60cs
0.16	5.0E-05	0.00	1000.0	2.35	12	48.6	UnDef	UnDef	0.0	50	94.2	10.0	-0.55	UnDef	UnDef
0.49	5.0E-04	0.00	1000.0	1.67	12	89.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.48	UnDef	UnDef
0.82	5.0E-08	0.01	584.5	8.44	11	53.0	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
1.15	5.0E-02	0.00	1000.0	1.27	9	821.4	0.0	821.4	1.6	50	95.0	1.0	-0.44	0.0	164.3
1.48	1.0E-15	0.00	1000.0	1.76	12	1653.8	UnDef	UnDef	0.0	50	95.0	1.0	-0.49	UnDef	UnDef
[illegible]80	1.0E-15	0.00	1000.0	2.57	12	1531.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.58	UnDef	UnDef
[illegible]13	1.0E-15	0.01	1000.0	2.80	12	1326.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.60	UnDef	UnDef
2.46	1.0E-15	0.01	1000.0	2.18	12	1146.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.53	UnDef	UnDef
2.79	1.0E-15	0.00	1000.0	2.47	12	1159.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.56	UnDef	UnDef
3.12	1.0E-15	0.00	1000.0	2.48	12	1153.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
3.44	1.0E-15	0.00	1000.0	2.56	12	1003.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.57	UnDef	UnDef
3.77	1.0E-15	0.00	1000.0	2.68	12	841.2	UnDef	UnDef	0.0	50	95.0	1.0	-0.59	UnDef	UnDef
4.10	1.0E-15	0.00	1000.0	2.86	12	628.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.61	UnDef	UnDef
4.43	1.0E-15	0.01	789.5	3.76	12	398.4	UnDef	UnDef	0.0	50	95.0	1.0	-0.70	UnDef	UnDef
4.76	1.0E-15	0.01	487.9	3.79	12	255.5	UnDef	UnDef	0.0	48	94.2	1.0	-0.63	UnDef	UnDef
5.09	5.0E-04	0.01	394.1	2.05	9	213.4	14.4	227.8	7.4	48	89.0	1.0	-0.42	2.9	72.5
5.41	5.0E-03	0.01	382.9	1.33	9	213.9	0.0	213.9	4.5	48	89.1	1.0	-0.35	0.0	52.3
5.74	5.0E-03	0.00	374.2	1.57	9	215.4	3.9	219.3	5.7	48	89.3	1.0	-0.37	0.6	53.3
6.07	5.0E-04	0.00	275.0	1.89	9	162.9	16.7	179.6	8.5	46	81.3	1.0	-0.36	3.3	56.4
6.40	5.0E-05	0.00	177.9	2.40	7	108.3	30.7	139.1	13.3	44	69.6	10.0	-0.36	6.8	49.2
6.73	5.0E-06	0.01	90.0	3.02	7	56.4	45.5	101.9	21.7	UnDef	UnDef	10.0	UnDef	10.7	38.3
7.05	5.0E-06	0.01	43.5	2.55	7	28.3	47.3	75.6	28.5	UnDef	UnDef	10.0	UnDef	8.9	22.7
7.38	5.0E-05	0.03	31.6	1.55	7	21.2	31.3	52.5	27.4	36	30.0	10.0	-0.11	4.9	13.2
7.79	5.0E-06	0.03	30.6	2.12	7	21.1	50.1	71.2	31.4	UnDef	UnDef	10.0	UnDef	8.1	18.4
8.20	5.0E-06	0.04	33.7	2.63	6	23.7	66.1	89.8	32.6	UnDef	UnDef	10.0	UnDef	9.9	21.5
8.53	5.0E-08	0.05	25.0	3.85	6	18.1	72.3	90.4	43.1	UnDef	UnDef	10.0	UnDef	17.7	35.4
8.86	5.0E-08	0.03	43.2	5.50	1	31.3	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
9.19	5.0E-08	0.02	46.5	6.83	1	34.2	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
9.51	5.0E-08	0.00	27.3	9.62	1	20.7	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
9.84	5.0E-08	0.00	24.2	7.42	1	18.7	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
10.17	5.0E-08	-0.01	13.2	8.83	1	10.8	UnDef	UnDef	100.0	UnDef	UnDef	5.0	UnDef	UnDef	UnDef
10.50	1.0E-15	-0.02	7.6	10.00	1	6.6	UnDef	UnDef	100.0	UnDef	UnDef	2.2	UnDef	UnDef	UnDef
10.83	5.0E-08	-0.02	10.4	7.93	1	8.8	UnDef	UnDef	100.0	UnDef	UnDef	3.5	UnDef	UnDef	UnDef
11.15	5.0E-08	-0.02	10.3	8.21	1	8.9	UnDef	UnDef	100.0	UnDef	UnDef	3.4	UnDef	UnDef	UnDef
11.48	5.0E-08	-0.01	20.6	4.94	1	17.2	UnDef	UnDef	100.0	UnDef	UnDef	9.9	UnDef	UnDef	UnDef
11.81	5.0E-08	0.00	26.1	5.02	1	21.9	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
[illegible]14	5.0E-08	0.00	36.9	4.58	6	31.0	124.2	155.2	39.2	UnDef	UnDef	10.0	UnDef	30.4	60.8
[illegible]47	5.0E-08	0.00	37.0	4.94	6	31.5	126.0	157.5	40.4	UnDef	UnDef	10.0	UnDef	30.8	61.7
12.80	5.0E-08	0.01	47.8	5.11	6	41.0	164.0	205.0	36.9	UnDef	UnDef	10.0	UnDef	40.1	80.3

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5747
CPT File: 717CP12A.COR

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-05	0.00	150.9	3.20	12	129.2	UnDef	UnDef	0.0	44	74.6	10.0	-0.40	UnDef	UnDef
13.45	5.0E-04	0.00	266.5	2.63	12	230.4	UnDef	UnDef	0.0	46	91.2	1.0	-0.43	UnDef	UnDef
13.78	5.0E-02	0.00	547.2	1.38	9	478.2	0.0	478.2	3.5	50	95.0	1.0	-0.39	0.0	93.6
14.11	5.0E-03	0.00	455.5	2.37	12	403.2	UnDef	UnDef	0.0	48	95.0	1.0	-0.46	UnDef	UnDef
14.44	1.0E-15	0.00	337.7	3.19	12	302.8	UnDef	UnDef	0.0	48	95.0	1.0	-0.51	UnDef	UnDef
14.76	5.0E-03	0.00	301.1	1.95	9	273.2	25.9	299.1	8.2	46	95.0	1.0	-0.38	3.8	70.7
15.09	5.0E-03	0.00	260.0	1.38	9	238.8	10.0	248.8	6.5	46	92.2	1.0	-0.31	1.5	59.9
15.42	5.0E-03	0.00	188.9	1.59	9	175.7	23.1	198.8	9.4	44	83.4	1.0	-0.30	3.4	46.4
15.75	5.0E-02	0.00	302.0	1.12	9	283.5	0.0	283.5	4.5	46	95.0	1.0	-0.30	0.0	55.5
16.08	5.0E-02	0.00	384.3	0.96	9	364.5	0.0	364.5	2.7	48	95.0	1.0	-0.31	0.0	71.3
16.40	5.0E-02	0.00	329.4	1.15	9	316.0	0.0	316.0	4.3	48	95.0	1.0	-0.32	0.0	61.8
16.73	5.0E-02	0.00	262.5	1.26	9	254.6	6.2	260.8	5.9	46	94.1	1.0	-0.30	0.8	50.6
17.06	5.0E-02	0.00	203.0	1.03	9	199.2	5.7	204.9	6.0	46	87.0	1.0	-0.26	0.7	39.7
17.39	5.0E-02	0.00	157.5	0.89	9	156.3	7.3	163.7	6.7	44	80.1	1.0	-0.22	0.9	31.5
17.72	5.0E-02	0.00	131.8	0.79	9	132.2	7.9	140.1	7.1	44	75.3	1.0	-0.19	0.9	26.8
18.04	5.0E-03	0.00	111.8	0.80	9	113.5	11.2	124.6	8.4	42	70.9	1.0	-0.18	1.6	29.4
18.37	5.0E-03	0.00	102.2	0.84	9	104.8	13.7	118.5	9.3	42	68.6	1.0	-0.17	2.0	27.6
18.70	5.0E-03	0.00	97.8	0.79	9	101.3	13.1	114.3	9.3	42	67.6	1.0	-0.16	1.9	26.7
19.03	5.0E-03	0.00	96.6	0.70	9	100.9	11.2	112.1	8.7	42	67.5	1.0	-0.15	1.6	26.3
19.36	5.0E-03	0.00	87.5	0.58	9	92.3	9.5	101.8	8.5	42	65.0	1.0	-0.13	1.4	24.0
19.68	5.0E-03	0.01	79.5	0.57	9	84.7	10.7	95.4	9.2	42	62.5	1.0	-0.12	1.6	22.3
20.01	5.0E-03	0.01	67.0	0.45	9	72.2	0.0	72.2	5.0	40	57.9	1.0	-0.08	0.0	17.7
20.34	5.0E-03	0.01	51.9	0.53	9	56.6	14.9	71.4	12.8	38	51.0	1.0	-0.07	2.1	15.9
20.67	5.0E-03	0.02	44.4	0.54	9	48.7	16.7	65.5	14.6	38	46.7	1.0	-0.06	2.3	14.2
21.00	5.0E-03	0.02	46.2	0.52	9	50.9	15.8	66.7	13.9	38	47.9	1.0	-0.06	2.2	14.6
21.33	5.0E-03	0.02	49.0	0.74	9	54.1	20.9	75.1	15.4	38	49.7	1.0	-0.09	2.8	16.0
21.65	5.0E-03	0.01	65.3	0.66	9	72.0	15.9	87.9	11.8	40	57.9	1.0	-0.11	2.2	19.9
[illegible]98	5.0E-03	0.01	65.1	1.00	9	72.1	24.7	96.7	14.6	40	57.9	1.0	-0.15	3.3	21.0
[illegible]31	5.0E-03	0.01	73.3	0.60	9	81.3	12.9	94.2	10.1	40	61.4	1.0	-0.11	1.9	21.8
22.64	5.0E-03	0.01	61.7	0.47	9	69.0	0.0	69.0	5.0	40	56.6	1.0	-0.08	0.0	16.9
22.97	5.0E-03	0.01	46.5	0.45	9	52.5	0.0	52.5	5.0	38	48.8	1.0	-0.05	0.0	12.8
23.29	5.0E-03	0.02	43.0	0.51	9	48.8	16.7	65.5	14.6	38	46.7	1.0	-0.05	2.3	14.2
23.62	5.0E-03	0.01	66.7	0.83	9	75.3	20.4	95.7	13.0	40	59.1	1.0	-0.13	2.8	21.2
23.95	5.0E-03	0.00	127.2	1.21	9	143.1	22.4	165.5	10.1	44	77.5	1.0	-0.23	3.2	38.2
24.28	5.0E-03	0.00	126.2	1.85	7	142.5	42.1	184.6	13.5	44	77.4	1.0	-0.28	5.8	40.7
24.61	5.0E-04	0.00	109.5	2.30	7	124.3	57.1	181.4	16.8	42	73.5	1.0	-0.30	9.9	50.5
24.93	5.0E-05	0.00	71.6	3.08	7	82.0	88.5	170.4	24.4	40	61.6	10.0	-0.30	15.4	47.5
25.26	5.0E-04	0.00	50.1	1.91	7	57.9	55.4	113.3	23.3	38	51.6	1.0	-0.18	8.3	27.2
25.59	5.0E-03	0.00	45.9	0.50	9	53.3	16.3	69.7	13.8	38	49.3	1.0	-0.06	2.2	15.3
25.92	5.0E-03	0.01	42.6	0.16	9	49.9	0.0	49.9	5.0	38	47.3	1.0	0.04	0.0	12.2
26.25	5.0E-03	0.01	40.9	0.07	9	48.1	0.0	48.1	5.0	38	46.3	1.0	0.11	0.0	11.8
26.57	5.0E-03	0.01	33.6	0.30	9	39.9	0.0	39.9	5.0	36	40.9	1.0	0.01	0.0	9.8
26.90	5.0E-03	0.01	43.2	0.20	9	51.1	0.0	51.1	5.0	38	48.0	1.0	0.02	0.0	12.5
27.23	5.0E-03	0.01	44.1	0.32	9	52.3	0.0	52.3	5.0	38	48.7	1.0	-0.02	0.0	12.8
27.56	5.0E-03	0.00	45.4	0.20	9	53.9	0.0	53.9	5.0	38	49.6	1.0	0.02	0.0	13.2
27.89	5.0E-03	0.01	41.1	0.13	9	49.1	0.0	49.1	5.0	38	46.9	1.0	0.06	0.0	12.0
28.21	5.0E-03	0.01	34.3	0.24	9	41.4	0.0	41.4	5.0	36	42.0	1.0	0.03	0.0	10.1
28.54	5.0E-03	0.01	31.3	0.44	7	38.0	0.0	38.0	5.0	36	39.6	1.0	-0.01	0.0	9.3
28.87	5.0E-03	0.01	33.7	0.48	7	40.9	0.0	40.9	5.0	36	41.7	1.0	-0.03	0.0	10.0
29.20	5.0E-04	0.01	27.2	0.98	7	33.4	38.9	72.4	25.2	36	35.9	1.0	-0.06	5.5	16.4
29.53	5.0E-05	0.02	15.2	1.95	6	19.3	77.4	96.7	42.7	32	30.0	6.1	-0.06	7.6	15.1
29.86	5.0E-05	0.06	7.8	1.67	4	10.6	42.6	53.2	55.5	30	30.0	2.3	0.03	4.2	8.3
30.18	5.0E-05	0.14	6.1	0.72	6	8.7	34.9	43.6	51.5	30	30.0	1.7	0.11	3.4	6.8
30.59	5.0E-05	0.13	7.2	0.81	6	10.0	40.2	50.2	48.7	30	30.0	2.1	0.09	3.9	7.9
31.00	5.0E-05	0.12	7.2	1.54	4	10.1	40.3	50.4	56.3	30	30.0	2.1	0.05	3.9	7.9
31.33	5.0E-05	0.06	9.5	0.98	6	12.9	51.6	64.4	44.3	30	30.0	3.0	0.04	5.0	10.1
31.66	5.0E-05	0.05	11.0	1.14	6	14.7	58.9	73.6	42.9	30	30.0	3.8	0.02	5.8	11.5
31.99	5.0E-05	0.04	12.3	0.94	6	16.4	65.4	81.8	38.4	30	30.0	4.4	0.02	6.4	12.8
[illegible]32	5.0E-04	0.02	13.0	0.68	7	17.2	63.1	80.4	34.4	30	30.0	1.0	0.03	5.4	11.1
32.64	5.0E-05	0.04	7.2	0.90	6	10.3	41.1	51.4	49.8	30	30.0	2.1	0.07	4.0	8.0
32.97	5.0E-05	0.08	5.9	0.16	1	8.7	UnDef	UnDef	100.0	30	30.0	1.6	0.21	UnDef	UnDef
33.30	5.0E-05	0.12	5.6	0.80	6	8.4	33.7	42.2	54.6	30	30.0	1.5	0.11	3.3	6.6

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5747
CPT File: 717CP12A.COR

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-05	0.07	11.8	0.92	6	16.0	64.0	80.0	39.1	30	30.0	4.2	0.03	6.3	12.5
33.96	5.0E-03	0.01	35.4	0.57	7	45.0	22.5	67.5	17.5	38	44.4	1.0	-0.04	2.9	13.9
34.28	5.0E-03	0.00	47.1	0.75	7	59.6	24.5	84.1	15.9	38	52.4	1.0	-0.09	3.2	17.8
34.61	5.0E-03	0.00	50.1	0.64	9	63.5	20.8	84.2	14.2	38	54.2	1.0	-0.09	2.8	18.4
34.94	5.0E-03	0.00	39.5	0.84	7	50.6	29.5	80.1	18.8	38	47.8	1.0	-0.09	3.7	16.1
35.27	5.0E-04	0.00	32.5	0.99	7	42.0	37.7	79.8	22.7	36	42.4	1.0	-0.08	5.8	19.5
35.60	5.0E-04	0.00	25.5	0.97	7	33.4	42.6	76.1	26.0	34	35.9	1.0	-0.06	5.9	16.8
35.92	5.0E-04	0.00	22.0	0.84	7	29.1	41.6	70.7	27.0	34	31.9	1.0	-0.03	5.5	15.0
36.25	5.0E-04	0.00	20.8	0.88	7	27.7	45.9	73.7	28.4	34	30.5	1.0	-0.03	5.8	14.8
36.58	5.0E-04	0.00	21.7	0.81	7	29.0	41.0	70.0	26.9	34	31.8	1.0	-0.03	5.5	14.9
36.91	5.0E-04	0.00	24.7	0.81	7	32.7	37.4	70.2	25.0	34	35.3	1.0	-0.04	5.3	16.0
37.24	5.0E-04	0.00	22.3	0.92	7	29.8	45.6	75.4	27.6	34	32.6	1.0	-0.04	5.9	15.6
37.57	5.0E-04	0.00	18.2	0.94	7	24.7	57.5	82.2	31.2	32	30.0	1.0	-0.02	6.3	14.3
37.89	5.0E-04	0.00	20.5	0.44	7	27.7	0.0	27.7	5.0	34	30.5	1.0	0.02	0.0	9.0
38.22	5.0E-04	0.00	20.7	0.47	7	28.0	0.0	28.0	5.0	34	30.8	1.0	0.02	0.0	9.1
38.55	5.0E-04	0.00	19.3	0.67	7	26.4	38.9	65.3	27.3	32	30.0	1.0	0.00	5.1	13.7
38.88	5.0E-04	0.00	20.1	0.47	7	27.5	0.0	27.5	5.0	34	30.2	1.0	0.02	0.0	9.0
39.21	5.0E-04	-0.01	21.6	0.47	7	29.5	0.0	29.5	5.0	34	32.3	1.0	0.01	0.0	9.6
39.53	5.0E-04	-0.01	23.8	0.67	7	32.4	33.5	65.8	24.0	34	34.9	1.0	-0.02	4.9	15.5
39.86	5.0E-03	0.00	28.7	0.59	7	38.8	27.3	66.2	20.5	36	40.2	1.0	-0.03	3.3	12.8
40.19	5.0E-03	0.00	30.7	0.68	7	41.5	29.4	70.9	20.5	36	42.1	1.0	-0.05	3.6	13.7
40.52	5.0E-04	0.00	22.5	0.76	7	30.9	39.1	70.0	25.9	34	33.6	1.0	-0.03	5.4	15.5
40.85	5.0E-04	-0.01	15.0	1.09	6	21.3	85.3	106.6	36.2	32	30.0	1.0	-0.01	7.0	13.9
41.17	5.0E-04	0.00	15.8	0.73	7	22.4	53.6	76.1	31.4	32	30.0	1.0	0.01	5.8	13.1
41.50	5.0E-03	-0.01	20.0	0.28	7	27.9	0.0	27.9	5.0	34	30.7	1.0	0.06	0.0	6.8
41.83	5.0E-04	-0.01	18.5	0.29	7	26.1	0.0	26.1	5.0	32	30.0	1.0	0.06	0.0	8.5
42.16	5.0E-03	0.00	18.2	0.06	7	25.8	0.0	25.8	5.0	32	30.0	1.0	0.19	0.0	6.3
[redacted]49	5.0E-03	-0.01	20.2	0.26	7	28.5	0.0	28.5	5.0	34	31.3	1.0	0.06	0.0	7.0
[redacted]81	5.0E-03	-0.01	23.4	0.32	7	32.8	0.0	32.8	5.0	34	35.3	1.0	0.04	0.0	8.0
43.14	5.0E-03	-0.01	25.6	0.46	7	35.8	0.0	35.8	5.0	34	37.8	1.0	0.00	0.0	8.8
43.47	5.0E-03	-0.01	26.0	0.66	7	36.3	32.4	68.8	22.7	34	38.3	1.0	-0.03	3.7	12.6
43.80	5.0E-04	-0.01	25.3	0.81	7	35.5	39.3	74.8	24.7	34	37.6	1.0	-0.04	5.7	17.3
44.13	5.0E-04	-0.01	23.8	0.82	7	33.7	41.4	75.1	25.6	34	36.1	1.0	-0.04	5.8	16.8
44.45	5.0E-03	-0.01	25.9	0.60	7	36.5	30.4	67.0	22.0	34	38.4	1.0	-0.02	3.6	12.5
44.78	5.0E-04	-0.01	25.0	0.76	7	35.4	37.6	72.9	24.3	34	37.5	1.0	-0.04	5.5	17.0
45.11	5.0E-04	-0.01	23.5	0.89	7	33.5	45.3	78.8	26.5	34	36.0	1.0	-0.04	6.1	17.1
45.44	5.0E-04	0.00	22.8	0.71	7	32.7	37.7	70.4	25.1	34	35.2	1.0	-0.02	5.4	16.0
45.77	5.0E-04	0.00	23.6	0.66	7	33.8	35.0	68.7	24.0	34	36.2	1.0	-0.02	5.1	16.2
46.10	5.0E-04	0.00	22.1	0.79	7	31.9	43.0	74.9	26.5	34	34.5	1.0	-0.03	5.8	16.2
46.42	5.0E-04	0.00	22.4	0.72	7	32.3	39.2	71.6	25.5	34	34.9	1.0	-0.02	5.5	16.1
46.75	5.0E-03	-0.01	26.2	0.42	7	37.6	0.0	37.6	5.0	36	39.2	1.0	0.01	0.0	9.2
47.08	5.0E-03	-0.01	25.6	0.57	7	36.9	30.2	67.1	21.9	34	38.7	1.0	-0.02	3.5	12.6
47.41	5.0E-03	-0.01	24.3	0.55	7	35.2	30.3	65.5	22.3	34	37.4	1.0	-0.01	3.5	12.1
47.74	5.0E-04	-0.01	21.8	0.59	7	31.9	34.2	66.1	24.4	34	34.5	1.0	0.00	5.0	15.4
48.06	5.0E-03	-0.01	22.6	0.49	7	33.0	0.0	33.0	5.0	34	35.5	1.0	0.00	0.0	8.1
48.39	5.0E-03	-0.02	23.1	0.44	7	33.9	0.0	33.9	5.0	34	36.2	1.0	0.01	0.0	8.3
48.72	5.0E-04	-0.01	22.0	0.71	7	32.4	39.9	72.3	25.7	34	35.0	1.0	-0.02	5.6	16.1
49.05	5.0E-03	-0.01	25.5	0.35	7	37.3	0.0	37.3	5.0	34	39.0	1.0	0.02	0.0	9.1
49.38	5.0E-03	-0.01	28.4	0.39	7	41.5	0.0	41.5	5.0	36	42.1	1.0	0.00	0.0	10.2
49.70	5.0E-03	-0.01	35.6	0.60	7	51.5	26.7	78.2	17.8	38	48.3	1.0	-0.05	3.4	16.0
50.03	5.0E-03	-0.01	41.1	0.86	7	59.3	33.7	93.1	18.6	38	52.3	1.0	-0.09	4.3	18.8
50.36	5.0E-04	-0.01	34.5	1.52	7	50.3	63.2	113.5	25.9	38	47.6	1.0	-0.12	8.8	25.2
50.69	5.0E-04	-0.01	21.6	1.84	6	32.3	129.1	161.3	35.4	34	34.9	1.0	-0.09	10.5	21.1
51.02	5.0E-04	-0.01	22.2	1.02	7	33.3	56.7	90.0	28.6	34	35.7	1.0	-0.05	7.1	17.9
51.34	5.0E-03	0.00	45.8	0.64	9	66.6	24.9	91.5	15.2	38	55.6	1.0	-0.08	3.3	19.6
51.67	5.0E-02	0.00	53.7	0.52	9	77.8	18.9	96.7	12.3	40	60.1	1.0	-0.08	2.1	17.3
52.00	5.0E-02	0.00	52.2	0.48	9	76.0	0.0	76.0	5.0	38	59.4	1.0	-0.07	0.0	14.9
[redacted]2.33	5.0E-03	0.00	57.7	0.96	7	83.8	32.7	116.5	15.5	40	62.2	1.0	-0.13	4.4	24.9
[redacted]66	5.0E-03	0.00	63.4	1.10	7	92.2	36.1	128.3	15.5	40	65.0	1.0	-0.15	4.8	27.4
[redacted]2.98	5.0E-03	0.00	68.4	1.09	9	99.5	34.9	134.4	14.7	40	67.1	1.0	-0.16	4.7	29.1
53.31	5.0E-02	0.00	87.5	1.00	9	127.0	28.1	155.1	11.8	42	74.1	1.0	-0.17	3.2	28.0
53.64	5.0E-03	0.00	86.2	1.18	9	125.4	34.8	160.2	13.1	42	73.8	1.0	-0.19	4.8	35.5

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5747
CPT File: 717CP12A.COR

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
53.97	5.0E-02	0.00	105.7	1.02	9	153.8	25.3	179.1	10.3	42	79.6	1.0	-0.19	2.9	33.0
54.30	5.0E-02	0.00	127.4	1.15	9	185.3	26.5	211.8	9.7	44	85.0	1.0	-0.22	3.1	39.3
54.63	5.0E-02	0.00	116.3	1.18	9	169.7	29.8	199.6	10.6	42	82.4	1.0	-0.22	3.4	36.6
54.95	5.0E-03	0.00	79.4	1.15	9	116.8	35.1	151.9	13.7	42	71.7	1.0	-0.18	4.8	33.4
55.28	5.0E-02	0.00	58.2	0.92	9	86.4	32.0	118.4	15.1	40	63.1	1.0	-0.13	3.4	20.4
55.61	5.0E-03	0.00	50.2	0.94	7	74.9	34.8	109.7	16.9	38	59.0	1.0	-0.12	4.5	22.9
55.94	5.0E-03	0.00	40.2	0.96	7	60.7	38.9	99.6	19.6	38	53.0	1.0	-0.10	4.8	19.7
56.27	5.0E-03	0.00	31.2	1.00	7	47.7	45.7	93.4	23.3	36	46.1	1.0	-0.08	5.1	16.8
56.59	5.0E-03	0.00	31.2	0.79	7	47.8	37.4	85.2	21.4	36	46.1	1.0	-0.06	4.4	16.1
56.92	5.0E-03	0.00	39.1	0.82	7	59.4	34.4	93.8	18.7	38	52.3	1.0	-0.08	4.3	18.9
57.25	5.0E-03	0.00	45.6	0.86	7	69.0	33.8	102.9	17.3	38	56.7	1.0	-0.10	4.4	21.3
57.58	5.0E-03	0.00	53.0	0.96	7	80.1	35.3	115.4	16.4	40	60.9	1.0	-0.12	4.6	24.2
57.91	5.0E-03	0.00	58.9	1.10	7	89.0	38.7	127.7	16.4	40	63.9	1.0	-0.15	5.1	26.9
58.23	5.0E-02	0.00	76.8	0.98	9	115.6	30.4	145.9	12.8	40	71.4	1.0	-0.16	3.4	26.0
58.56	5.0E-03	0.00	71.3	1.12	9	107.7	36.5	144.2	14.5	40	69.4	1.0	-0.17	5.0	31.3
58.89	5.0E-03	0.00	56.1	1.09	7	85.4	39.3	124.7	16.8	40	62.8	1.0	-0.14	5.1	26.0
59.22	5.0E-02	0.00	63.5	1.00	9	96.6	34.1	130.7	14.8	40	66.3	1.0	-0.14	3.7	22.6
59.55	5.0E-03	0.00	79.5	1.81	7	120.7	60.9	181.6	17.6	42	72.7	1.0	-0.23	7.8	37.4
59.87	5.0E-05	0.00	52.3	3.38	6	80.3	153.4	233.6	29.6	40	61.0	10.0	-0.28	21.9	53.3
60.20	5.0E-04	0.02	91.8	2.36	7	139.5	80.8	220.3	18.7	42	76.8	1.0	-0.28	13.5	59.1
60.53	5.0E-04	0.00	113.9	2.59	7	172.8	88.5	261.3	17.7	42	83.0	1.0	-0.32	15.2	71.5
60.86	1.0E-15	-0.01	92.1	3.23	7	140.5	120.2	260.7	22.3	42	77.0	1.0	-0.34	27.9	96.6
61.19	5.0E-04	-0.01	72.3	2.09	7	111.0	73.9	184.9	20.0	40	70.3	1.0	-0.24	12.1	48.3

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Job No: 04-0401-1123-5807
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: DIKE N
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 16:19
CPT File: 717CP00N.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 3.37 (ft): 11.0
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.16	35.2	0.16	0.46	0.3	7	117.8	0.01	0.01	0.00	2.00	11.2	22.5	UnDef	0.11
0.49	89.3	0.72	0.81	0.3	8	120.9	0.03	0.03	0.00	2.00	21.4	42.7	UnDef	0.00
0.82	137.3	1.58	1.15	-3.9	8	120.9	0.05	0.05	0.00	2.00	32.9	65.7	UnDef	0.00
1.15	165.0	2.12	1.28	-14.1	8	120.9	0.07	0.07	0.00	2.00	39.5	79.0	UnDef	0.00
[redacted]48	186.0	2.42	1.30	-15.4	8	120.9	0.09	0.09	0.00	2.00	44.5	89.1	UnDef	0.00
[redacted]80	200.6	3.14	1.57	-11.8	8	120.9	0.11	0.11	0.00	2.00	48.0	96.0	UnDef	0.00
2.13	197.3	3.71	1.88	-9.5	8	120.9	0.13	0.13	0.00	2.00	47.2	94.5	UnDef	0.00
2.46	189.0	2.85	1.51	-9.3	8	120.9	0.15	0.15	0.00	2.00	45.3	90.5	UnDef	0.00
2.79	176.8	2.47	1.40	-7.3	8	120.9	0.17	0.17	0.00	2.00	42.3	84.7	UnDef	0.00
3.12	163.4	3.05	1.87	-6.4	7	117.8	0.19	0.19	0.00	2.00	52.2	104.3	UnDef	0.00
3.44	158.2	2.92	1.85	-7.3	7	117.8	0.21	0.21	0.00	2.00	50.5	101.0	UnDef	0.00
3.77	157.4	2.71	1.72	-8.2	8	120.9	0.23	0.23	0.00	2.00	37.7	75.4	UnDef	0.00
4.10	153.0	2.86	1.87	-12.5	7	117.8	0.25	0.25	0.00	2.00	48.9	97.7	UnDef	0.00
4.43	135.3	2.42	1.79	-15.8	7	117.8	0.27	0.27	0.00	1.94	43.2	83.8	UnDef	0.00
4.76	126.9	2.09	1.65	-9.1	8	120.9	0.29	0.29	0.00	1.87	30.4	56.9	UnDef	0.00
5.09	128.6	2.27	1.77	-3.7	7	117.8	0.30	0.30	0.00	1.81	41.1	74.4	UnDef	0.00
5.41	141.8	2.60	1.83	-5.6	7	117.8	0.32	0.32	0.00	1.76	45.3	79.5	UnDef	0.00
5.74	142.9	2.17	1.52	-13.0	8	120.9	0.34	0.34	0.00	1.71	34.2	58.4	UnDef	0.00
6.07	171.1	2.65	1.55	-12.0	8	120.9	0.36	0.36	0.00	1.66	41.0	68.0	UnDef	0.00
6.40	200.5	3.87	1.93	-7.8	8	120.9	0.38	0.38	0.00	1.62	48.0	77.6	UnDef	0.00
6.73	203.5	4.19	2.06	-14.0	7	117.8	0.40	0.40	0.00	1.58	65.0	102.4	UnDef	0.00
7.05	196.9	4.10	2.09	-9.4	7	117.8	0.42	0.42	0.00	1.54	62.8	96.7	UnDef	0.00
7.38	191.3	4.00	2.09	-7.8	7	117.8	0.44	0.44	0.00	1.51	61.1	91.9	UnDef	0.00
7.79	186.1	3.76	2.02	-8.4	7	117.8	0.47	0.47	0.00	1.47	59.4	87.1	UnDef	0.00
8.20	193.5	3.63	1.88	-14.1	8	120.9	0.49	0.49	0.00	1.43	46.3	66.2	UnDef	0.00
8.53	185.6	4.08	2.20	-12.3	7	117.8	0.51	0.51	0.00	1.40	59.2	83.0	UnDef	0.00
8.86	175.7	3.60	2.05	-10.4	7	117.8	0.53	0.53	0.00	1.38	56.1	77.1	UnDef	0.00
9.19	148.6	3.05	2.05	-12.1	7	117.8	0.55	0.55	0.00	1.35	47.4	64.1	UnDef	0.00
9.51	131.6	2.73	2.08	-12.1	7	117.8	0.57	0.57	0.00	1.33	42.0	55.8	UnDef	0.00
9.84	120.6	2.54	2.11	-14.2	7	117.8	0.59	0.59	0.00	1.31	38.5	50.3	UnDef	0.00
10.17	102.5	2.19	2.14	-12.9	7	117.8	0.61	0.61	0.00	1.28	32.7	42.0	UnDef	0.00
10.50	97.7	1.96	2.01	-11.9	7	117.8	0.63	0.63	0.00	1.26	31.2	39.4	UnDef	0.41
10.83	94.6	2.16	2.28	-9.9	7	117.8	0.64	0.64	0.00	1.25	30.2	37.6	UnDef	0.42
11.15	87.3	1.73	1.99	-14.3	7	117.8	0.66	0.66	0.00	1.23	27.9	34.3	UnDef	0.32
11.48	84.7	1.53	1.81	-11.2	7	117.8	0.68	0.67	0.01	1.22	27.0	33.0	UnDef	0.29
[redacted]81	77.5	1.66	2.14	-8.4	7	117.8	0.70	0.68	0.02	1.21	24.7	30.0	UnDef	0.28
[redacted]14	70.9	1.25	1.76	-11.7	7	117.8	0.72	0.69	0.03	1.21	22.6	27.3	UnDef	0.22
12.47	59.3	1.10	1.85	-8.7	7	117.8	0.74	0.70	0.04	1.20	18.9	22.7	UnDef	0.18
12.80	52.4	0.93	1.78	-7.2	7	117.8	0.76	0.71	0.05	1.19	16.7	19.9	UnDef	0.16

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5807
CPT File: 717CP00N.COR

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
13.12	48.3	0.79	1.64	-10.5	7	117.8	0.78	0.72	0.06	1.18	15.4	18.3	UnDef	0.14
13.45	44.6	0.75	1.67	-5.6	7	117.8	0.80	0.72	0.08	1.18	14.2	16.7	UnDef	0.14
13.78	44.7	0.72	1.60	-7.0	7	117.8	0.82	0.73	0.09	1.17	14.3	16.7	UnDef	0.13
14.11	46.7	0.73	1.57	-5.0	7	117.8	0.84	0.74	0.10	1.16	14.9	17.3	UnDef	0.14
14.44	45.9	0.60	1.31	1.7	7	117.8	0.86	0.75	0.11	1.15	14.7	16.9	UnDef	0.13
14.76	46.7	0.71	1.51	0.1	7	117.8	0.88	0.76	0.12	1.15	14.9	17.1	UnDef	0.13
15.09	40.0	0.72	1.79	-2.9	6	114.6	0.90	0.77	0.13	1.14	15.3	17.5	3.13	0.14
15.42	33.8	0.40	1.17	-1.3	7	117.8	0.91	0.78	0.14	1.13	10.8	12.2	UnDef	0.11
15.75	26.6	0.33	1.23	5.0	6	114.6	0.93	0.79	0.15	1.13	10.2	11.5	2.05	0.10
16.08	34.2	0.31	0.89	8.2	7	117.8	0.95	0.80	0.16	1.12	10.9	12.2	UnDef	0.10
16.40	34.9	0.30	0.85	3.8	7	117.8	0.97	0.80	0.17	1.11	11.1	12.4	UnDef	0.10
16.73	31.5	0.18	0.56	3.9	7	117.8	0.99	0.81	0.18	1.11	10.1	11.2	UnDef	0.09
17.06	19.6	0.10	0.51	6.2	6	114.6	1.01	0.82	0.19	1.10	7.5	8.3	1.49	0.09
17.39	17.3	0.08	0.46	16.9	6	114.6	1.03	0.83	0.20	1.10	6.6	7.3	1.30	0.00
17.72	17.5	0.09	0.51	22.5	6	114.6	1.05	0.84	0.21	1.09	6.7	7.3	1.32	0.09
18.04	19.4	0.10	0.49	20.6	6	114.6	1.07	0.85	0.22	1.09	7.4	8.1	1.47	0.09
18.37	17.7	0.09	0.51	16.4	6	114.6	1.09	0.86	0.23	1.08	6.8	7.3	1.33	0.09
18.70	17.3	0.12	0.70	20.6	6	114.6	1.10	0.87	0.24	1.08	6.6	7.1	1.29	0.09
19.03	16.5	0.10	0.58	14.6	6	114.6	1.12	0.87	0.25	1.07	6.3	6.8	1.23	0.09
19.36	13.0	0.08	0.62	25.8	6	114.6	1.14	0.88	0.26	1.06	5.0	5.3	0.95	0.10
19.68	14.0	0.09	0.61	28.0	6	114.6	1.16	0.89	0.27	1.06	5.4	5.7	1.03	0.09
20.01	13.8	0.08	0.58	24.9	6	114.6	1.18	0.90	0.28	1.05	5.3	5.6	1.01	0.09
20.34	12.5	0.07	0.56	27.2	6	114.6	1.20	0.91	0.29	1.05	4.8	5.0	0.91	0.10
20.67	12.4	0.07	0.57	27.1	6	114.6	1.22	0.92	0.30	1.04	4.7	4.9	0.89	0.10
21.00	13.8	0.09	0.62	23.9	6	114.6	1.24	0.93	0.31	1.04	5.3	5.5	1.01	0.10
21.33	18.0	0.12	0.64	18.0	6	114.6	1.25	0.93	0.32	1.03	6.9	7.1	1.34	0.09
21.65	21.4	0.14	0.63	14.9	6	114.6	1.27	0.94	0.33	1.03	8.2	8.4	1.61	0.09
[redacted]98	19.5	0.13	0.67	17.8	6	114.6	1.29	0.95	0.34	1.03	7.5	7.7	1.46	0.09
[redacted]31	10.1	0.08	0.79	26.1	6	114.6	1.31	0.96	0.35	1.02	3.9	3.9	0.70	0.09
22.64	6.3	0.03	0.40	41.1	1	111.4	1.33	0.97	0.36	1.02	3.0	3.1	0.40	0.00
22.97	4.9	0.02	0.31	44.9	1	111.4	1.35	0.98	0.37	1.01	2.3	2.4	0.28	0.00
23.29	3.5	0.01	0.29	46.9	1	111.4	1.37	0.98	0.38	1.01	1.7	1.7	0.17	0.00
23.62	3.0	0.01	0.33	46.4	1	111.4	1.38	0.99	0.39	1.00	1.4	1.4	0.13	0.00
23.95	3.1	0.01	0.33	48.9	1	111.4	1.40	1.00	0.40	1.00	1.5	1.5	0.13	0.00
24.28	2.7	0.01	0.37	48.9	1	111.4	1.42	1.01	0.41	1.00	1.3	1.3	0.10	0.00
24.61	2.2	0.01	0.47	50.3	1	111.4	1.44	1.02	0.42	0.99	1.0	1.0	0.06	0.00
24.93	2.4	0.01	0.42	50.1	1	111.4	1.46	1.02	0.43	0.99	1.2	1.1	0.08	0.00
25.26	2.8	0.01	0.36	49.1	1	111.4	1.48	1.03	0.44	0.98	1.3	1.3	0.10	0.00
25.59	3.1	0.01	0.32	41.3	1	111.4	1.49	1.04	0.45	0.98	1.5	1.5	0.13	0.00
25.92	3.0	0.01	0.33	49.7	1	111.4	1.51	1.05	0.46	0.98	1.5	1.4	0.12	0.00
26.25	2.6	0.01	0.38	52.1	1	111.4	1.53	1.06	0.47	0.97	1.3	1.2	0.09	0.00
26.57	3.5	0.01	0.29	50.7	1	111.4	1.55	1.06	0.48	0.97	1.7	1.6	0.16	0.00
26.90	4.4	0.01	0.23	46.3	1	111.4	1.57	1.07	0.49	0.97	2.1	2.0	0.23	0.00
27.23	4.7	0.01	0.21	46.0	1	111.4	1.59	1.08	0.51	0.96	2.3	2.2	0.25	0.00
27.56	6.5	0.01	0.15	44.4	1	111.4	1.60	1.09	0.52	0.96	3.1	3.0	0.39	0.00
27.89	6.4	0.03	0.47	43.9	1	111.4	1.62	1.10	0.53	0.96	3.1	2.9	0.38	0.00
28.21	13.6	0.09	0.63	38.8	6	114.6	1.64	1.10	0.54	0.95	5.2	5.0	0.96	0.10
28.54	21.0	0.20	0.96	30.9	6	114.6	1.66	1.11	0.55	0.95	8.0	7.6	1.54	0.12
28.87	21.2	0.21	0.99	25.9	6	114.6	1.68	1.12	0.56	0.94	8.1	7.7	1.56	0.13
29.20	22.5	0.17	0.73	26.7	6	114.6	1.70	1.13	0.57	0.94	8.6	8.1	1.67	0.10
29.53	23.0	0.23	1.00	27.9	6	114.6	1.72	1.14	0.58	0.94	8.8	8.2	1.70	0.12
29.86	32.4	0.41	1.25	26.7	7	117.8	1.73	1.15	0.59	0.93	10.3	9.6	UnDef	0.12
30.18	52.7	0.77	1.47	3.2	7	117.8	1.75	1.16	0.60	0.93	16.8	15.6	UnDef	0.15
30.59	72.7	1.43	1.97	-6.2	7	117.8	1.78	1.17	0.61	0.93	23.2	21.5	UnDef	0.23
31.00	67.7	1.27	1.88	-8.7	7	117.8	1.80	1.18	0.62	0.92	21.6	19.9	UnDef	0.21
31.33	52.5	0.62	1.18	-4.5	7	117.8	1.82	1.19	0.63	0.92	16.7	15.4	UnDef	0.13
31.66	49.9	0.23	0.46	9.3	8	120.9	1.84	1.20	0.64	0.91	12.0	10.9	UnDef	0.09
31.99	29.6	0.37	1.25	29.9	6	114.6	1.86	1.21	0.65	0.91	11.3	10.3	2.22	0.14
[redacted]32	25.6	0.30	1.16	32.9	6	114.6	1.88	1.22	0.66	0.91	9.8	8.9	1.90	0.14
[redacted].64	20.9	0.19	0.91	39.0	6	114.6	1.90	1.22	0.67	0.90	8.0	7.2	1.52	0.14
32.97	18.2	0.11	0.58	35.0	6	114.6	1.92	1.23	0.68	0.90	7.0	6.3	1.30	0.11
33.30	13.6	0.06	0.44	31.9	6	114.6	1.94	1.24	0.69	0.90	5.2	4.7	0.93	0.10

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5807
CPT File: 717CP00N.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
33.63	12.5	0.13	1.00	44.4	6	114.6	1.95	1.25	0.70	0.89	4.8	4.3	0.84	0.10
33.96	18.8	0.23	1.20	30.2	6	114.6	1.97	1.26	0.72	0.89	7.2	6.4	1.34	0.13
34.28	20.6	0.20	0.97	27.0	6	114.6	1.99	1.27	0.73	0.89	7.9	7.0	1.49	0.15
34.61	19.4	0.20	1.04	27.4	6	114.6	2.01	1.28	0.74	0.89	7.4	6.6	1.39	0.13
34.94	19.1	0.24	1.26	29.8	6	114.6	2.03	1.28	0.75	0.88	7.3	6.5	1.37	0.13
35.27	12.9	0.17	1.32	43.3	6	114.6	2.05	1.29	0.76	0.88	4.9	4.4	0.87	0.10
35.60	12.5	0.08	0.60	47.4	6	114.6	2.07	1.30	0.77	0.88	4.8	4.2	0.84	0.09
35.92	13.6	0.03	0.18	50.0	6	114.6	2.09	1.31	0.78	0.87	5.2	4.5	0.92	0.00
36.25	8.9	0.04	0.39	55.4	6	114.6	2.11	1.32	0.79	0.87	3.4	3.0	0.54	0.00
36.58	15.5	0.11	0.71	51.4	6	114.6	2.12	1.33	0.80	0.87	5.9	5.2	1.07	0.11
36.91	15.2	0.20	1.32	44.6	6	114.6	2.14	1.34	0.81	0.87	5.8	5.0	1.04	0.10
37.24	10.9	0.10	0.92	55.4	6	114.6	2.16	1.34	0.82	0.86	4.2	3.6	0.70	0.09
37.57	7.7	0.02	0.19	67.6	1	111.4	2.18	1.35	0.83	0.86	3.7	3.2	0.44	0.00
37.89	7.9	0.01	0.13	66.8	1	111.4	2.20	1.36	0.84	0.86	3.8	3.3	0.46	0.00
38.22	8.6	0.03	0.29	70.1	1	111.4	2.22	1.37	0.85	0.85	4.1	3.5	0.51	0.00
38.55	13.6	0.24	1.77	51.2	5	114.6	2.24	1.38	0.86	0.85	6.5	5.6	0.91	0.10
38.88	24.5	0.15	0.61	37.8	7	117.8	2.25	1.39	0.87	0.85	7.8	6.6	UnDef	0.10
39.21	15.1	0.09	0.60	36.6	6	114.6	2.27	1.39	0.88	0.85	5.8	4.9	1.02	0.10
39.53	10.1	0.07	0.65	68.3	6	114.6	2.29	1.40	0.89	0.84	3.9	3.3	0.62	0.09
39.86	9.7	0.04	0.36	72.6	6	114.6	2.31	1.41	0.90	0.84	3.7	3.1	0.59	0.00
40.19	12.8	0.07	0.51	61.0	6	114.6	2.33	1.42	0.91	0.84	4.9	4.1	0.84	0.09
40.52	18.3	0.20	1.10	57.9	6	114.6	2.35	1.43	0.92	0.84	7.0	5.9	1.27	0.12
40.85	21.2	0.31	1.44	44.7	6	114.6	2.37	1.44	0.93	0.83	8.1	6.8	1.51	0.14
41.17	14.2	0.19	1.35	56.0	6	114.6	2.39	1.45	0.94	0.83	5.4	4.5	0.94	0.10
41.50	10.2	0.07	0.69	78.0	6	114.6	2.40	1.45	0.95	0.83	3.9	3.2	0.62	0.09
41.83	10.1	0.22	2.12	65.3	5	114.6	2.42	1.46	0.96	0.83	4.9	4.0	0.62	0.09
42.16	14.5	0.24	1.66	56.6	6	114.6	2.44	1.47	0.97	0.82	5.5	4.6	0.96	0.10
[illegible]49	22.0	0.31	1.41	40.2	6	114.6	2.46	1.48	0.98	0.82	8.4	6.9	1.56	0.14
[illegible]81	22.3	0.34	1.53	37.7	6	114.6	2.48	1.49	0.99	0.82	8.5	7.0	1.58	0.15
43.14	18.3	0.30	1.64	50.2	6	114.6	2.50	1.50	1.00	0.82	7.0	5.7	1.27	0.12
43.47	17.8	0.20	1.10	79.2	6	114.6	2.52	1.51	1.01	0.82	6.8	5.6	1.22	0.11
43.80	14.8	0.13	0.88	82.6	6	114.6	2.54	1.51	1.02	0.81	5.7	4.6	0.98	0.10
44.13	17.6	0.08	0.46	81.6	6	114.6	2.56	1.52	1.03	0.81	6.7	5.5	1.20	0.11
44.45	18.6	0.11	0.59	80.2	6	114.6	2.57	1.53	1.04	0.81	7.1	5.8	1.29	0.12
44.78	18.7	0.19	1.02	78.8	6	114.6	2.59	1.54	1.05	0.81	7.2	5.8	1.29	0.12
45.11	22.2	0.45	2.03	84.5	6	114.6	2.61	1.55	1.06	0.80	8.5	6.8	1.57	0.14
45.44	17.6	0.39	2.19	50.4	5	114.6	2.63	1.56	1.07	0.80	8.4	6.8	1.20	0.11
45.77	7.6	0.15	1.98	61.6	5	114.6	2.65	1.57	1.08	0.80	3.6	2.9	0.40	0.00
46.10	8.5	0.15	1.71	60.6	5	114.6	2.67	1.57	1.09	0.80	4.1	3.2	0.47	0.08
46.42	9.0	0.25	2.78	43.4	4	114.6	2.69	1.58	1.10	0.79	5.8	4.6	0.51	0.00
46.75	7.5	0.25	3.34	5.8	3	111.4	2.71	1.59	1.11	0.79	7.2	5.7	0.38	0.00
47.08	8.0	0.27	3.32	10.1	3	111.4	2.72	1.60	1.12	0.79	7.7	6.1	0.42	0.00
47.41	12.6	0.49	3.87	6.4	3	111.4	2.74	1.61	1.13	0.79	12.0	9.5	0.78	0.00
47.74	14.9	0.75	5.02	-0.5	3	111.4	2.76	1.62	1.14	0.79	14.2	11.2	0.97	0.00
48.06	23.3	1.00	4.28	2.8	3	111.4	2.78	1.62	1.16	0.78	22.3	17.5	1.64	0.00
48.39	29.4	0.97	3.30	6.9	5	114.6	2.80	1.63	1.17	0.78	14.1	11.0	2.12	0.21
48.72	25.8	0.95	3.67	47.4	5	114.6	2.82	1.64	1.18	0.78	12.4	9.7	1.84	0.00
49.05	28.2	0.85	3.00	74.2	5	114.6	2.83	1.65	1.19	0.78	13.5	10.5	2.03	0.20
49.38	27.5	0.69	2.50	134.5	6	114.6	2.85	1.66	1.20	0.78	10.5	8.2	1.97	0.19
49.70	28.2	0.70	2.49	159.2	6	114.6	2.87	1.67	1.21	0.77	10.8	8.4	2.03	0.19
50.03	25.9	0.89	3.44	225.0	5	114.6	2.89	1.67	1.22	0.77	12.4	9.6	1.84	0.00
50.36	31.6	1.28	4.06	176.6	4	114.6	2.91	1.68	1.23	0.77	20.2	15.6	2.30	0.00
50.69	36.9	1.06	2.88	135.0	6	114.6	2.93	1.69	1.24	0.77	14.1	10.9	2.72	0.33
51.02	30.3	1.28	4.24	111.6	4	114.6	2.95	1.70	1.25	0.77	19.3	14.8	2.19	0.00
51.34	35.6	1.47	4.13	123.8	4	114.6	2.97	1.71	1.26	0.77	22.8	17.4	2.61	0.00
51.67	48.5	1.27	2.62	59.2	6	114.6	2.98	1.72	1.27	0.76	18.6	14.2	3.64	0.00
52.00	49.0	1.20	2.45	1.9	6	114.6	3.00	1.73	1.28	0.76	18.8	14.3	3.68	0.00
52.33	30.1	0.97	3.21	1.3	5	114.6	3.02	1.73	1.29	0.76	14.4	11.0	2.17	0.21
[illegible]66	22.1	1.19	5.38	9.6	3	111.4	3.04	1.74	1.30	0.76	21.1	16.0	1.52	0.00
[illegible]98	25.3	1.14	4.51	17.1	3	111.4	3.06	1.75	1.31	0.76	24.2	18.3	1.78	0.00
53.31	19.5	0.76	3.91	25.5	4	114.6	3.08	1.76	1.32	0.75	12.5	9.4	1.31	0.00
53.64	20.8	0.94	4.53	39.9	3	111.4	3.10	1.77	1.33	0.75	19.9	15.0	1.42	0.00

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5807
CPT File: 717CP00N.COR

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
53.97	23.0	1.15	5.02	55.6	3	111.4	3.11	1.78	1.34	0.75	22.0	16.5	1.59	0.00
54.30	24.7	1.15	4.66	70.8	3	111.4	3.13	1.78	1.35	0.75	23.7	17.7	1.73	0.00
54.63	18.3	0.87	4.76	81.7	3	111.4	3.15	1.79	1.36	0.75	17.6	13.1	1.21	0.00
54.95	14.4	0.35	2.41	97.8	5	114.6	3.17	1.80	1.37	0.75	6.9	5.1	0.89	0.00
55.28	11.3	0.19	1.68	115.8	5	114.6	3.19	1.81	1.38	0.74	5.4	4.0	0.65	0.09
55.61	9.8	0.08	0.82	140.0	6	114.6	3.21	1.82	1.39	0.74	3.7	2.8	0.52	0.08
55.94	10.6	0.10	0.95	135.0	6	114.6	3.23	1.83	1.40	0.74	4.0	3.0	0.59	0.09
56.27	19.4	0.20	1.03	133.4	6	114.6	3.24	1.83	1.41	0.74	7.4	5.5	1.29	0.11
56.59	16.8	0.44	2.63	52.1	5	114.6	3.26	1.84	1.42	0.74	8.0	5.9	1.08	0.00
56.92	10.2	0.38	3.68	37.1	3	111.4	3.28	1.85	1.43	0.74	9.8	7.2	0.55	0.00
57.25	7.2	0.23	3.22	60.9	3	111.4	3.30	1.86	1.44	0.73	6.8	5.0	0.31	0.00
57.58	6.2	0.05	0.73	90.9	1	111.4	3.32	1.87	1.45	0.73	3.0	2.2	0.23	0.00
57.91	6.3	0.02	0.32	112.8	1	111.4	3.34	1.87	1.46	0.73	3.0	2.2	0.24	0.00
58.23	8.6	0.01	0.12	113.4	1	111.4	3.36	1.88	1.47	0.73	4.1	3.0	0.42	0.00
58.56	5.7	0.01	0.18	110.6	1	111.4	3.37	1.89	1.48	0.73	2.7	2.0	0.19	0.00
58.89	5.4	0.01	0.19	121.5	1	111.4	3.39	1.90	1.49	0.73	2.6	1.9	0.16	0.00
59.22	5.2	0.01	0.19	127.9	1	111.4	3.41	1.91	1.50	0.72	2.5	1.8	0.14	0.00
59.55	5.7	0.01	0.18	122.6	1	111.4	3.43	1.91	1.51	0.72	2.7	2.0	0.18	0.00
59.87	5.9	0.01	0.17	117.0	1	111.4	3.45	1.92	1.52	0.72	2.8	2.0	0.20	0.00
60.20	7.1	0.01	0.14	116.4	1	111.4	3.46	1.93	1.53	0.72	3.4	2.5	0.29	0.00
60.53	7.7	0.01	0.13	124.8	1	111.4	3.48	1.94	1.54	0.72	3.7	2.6	0.34	0.00
60.86	36.9	0.09	0.24	57.6	7	117.8	3.50	1.95	1.55	0.72	11.8	8.4	UnDef	0.00
61.19	48.7	0.44	0.90	54.2	7	117.8	3.52	1.96	1.56	0.71	15.5	11.1	UnDef	0.14
61.52	51.0	0.38	0.75	59.4	7	117.8	3.54	1.97	1.57	0.71	16.3	11.6	UnDef	0.12
61.84	48.2	0.26	0.53	59.6	8	120.9	3.56	1.98	1.59	0.71	11.5	8.2	UnDef	0.11
62.17	48.4	0.25	0.52	72.5	8	120.9	3.58	1.98	1.60	0.71	11.6	8.2	UnDef	0.11
62.50	52.8	0.38	0.71	68.5	8	120.9	3.60	1.99	1.61	0.71	12.6	8.9	UnDef	0.12
[illegible]83	35.0	0.71	2.03	74.9	6	114.6	3.62	2.00	1.62	0.71	13.4	9.5	2.51	0.24
[illegible]16	20.3	0.32	1.55	92.3	6	114.6	3.64	2.01	1.63	0.71	7.8	5.5	1.34	0.11
63.48	32.0	0.09	0.28	104.6	7	117.8	3.66	2.02	1.64	0.70	10.2	7.2	UnDef	0.00
63.81	32.5	0.23	0.71	104.3	7	117.8	3.68	2.03	1.65	0.70	10.4	7.3	UnDef	0.18
64.14	28.7	0.14	0.47	97.1	7	117.8	3.70	2.04	1.66	0.70	9.1	6.4	UnDef	0.14
64.47	48.8	0.08	0.16	90.2	8	120.9	3.72	2.05	1.67	0.70	11.7	8.2	UnDef	0.08
64.80	70.2	0.27	0.38	53.1	8	120.9	3.74	2.06	1.68	0.70	16.8	11.7	UnDef	0.09
65.12	83.8	0.41	0.48	48.1	8	120.9	3.75	2.07	1.69	0.70	20.1	14.0	UnDef	0.13
65.45	84.6	0.73	0.86	54.7	8	120.9	3.77	2.08	1.70	0.69	20.3	14.1	UnDef	0.16
65.78	80.8	0.56	0.69	53.6	8	120.9	3.79	2.09	1.71	0.69	19.3	13.4	UnDef	0.14
66.11	94.1	0.64	0.68	52.2	8	120.9	3.81	2.10	1.72	0.69	22.5	15.6	UnDef	0.15
66.44	101.5	0.70	0.69	55.4	8	120.9	3.83	2.11	1.73	0.69	24.3	16.7	UnDef	0.16
66.76	107.3	0.67	0.62	56.0	8	120.9	3.85	2.12	1.74	0.69	25.7	17.7	UnDef	0.16
67.09	104.7	1.00	0.95	50.5	8	120.9	3.87	2.13	1.75	0.69	25.1	17.2	UnDef	0.19
67.42	124.3	0.72	0.58	38.8	9	124.1	3.89	2.13	1.76	0.68	23.8	16.3	UnDef	0.19
67.75	126.5	0.58	0.46	21.9	9	124.1	3.91	2.15	1.77	0.68	24.2	16.5	UnDef	0.14
68.08	128.2	0.95	0.74	27.1	9	124.1	3.93	2.16	1.78	0.68	24.6	16.7	UnDef	0.21
68.40	111.8	1.21	1.09	34.3	8	120.9	3.95	2.17	1.79	0.68	26.8	18.2	UnDef	0.22
68.73	89.2	0.59	0.66	42.0	8	120.9	3.97	2.17	1.80	0.68	21.4	14.5	UnDef	0.15

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5807
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: DIKE N
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 16:19
CPT File: 717CP00N.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 3.37 (ft): 11.0
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-04	0.00	1000.0	0.46	10	67.4	0.0	67.4	0.0	50	95.0	1.0	-0.32	0.0	22.5
0.49	5.0E-03	0.00	1000.0	0.81	10	171.0	0.0	171.0	0.0	50	95.0	1.0	-0.38	0.0	42.7
0.82	5.0E-03	0.00	1000.0	1.15	9	263.0	0.0	263.0	1.1	50	95.0	1.0	-0.42	0.0	65.7
1.15	5.0E-03	0.00	1000.0	1.29	9	316.0	0.0	316.0	1.6	50	95.0	1.0	-0.44	0.0	79.0
1.48	5.0E-03	0.00	1000.0	1.30	9	356.3	0.0	356.3	1.7	50	95.0	1.0	-0.44	0.0	89.1
[illegible]80	5.0E-03	0.00	1000.0	1.57	12	384.1	UnDef	UnDef	0.0	50	95.0	1.0	-0.47	UnDef	UnDef
[illegible]13	5.0E-03	0.00	1000.0	1.88	12	377.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.50	UnDef	UnDef
2.46	5.0E-03	0.00	1000.0	1.51	12	362.1	UnDef	UnDef	0.0	50	95.0	1.0	-0.46	UnDef	UnDef
2.79	5.0E-03	0.00	1000.0	1.40	12	338.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.45	UnDef	UnDef
3.12	5.0E-04	0.00	869.4	1.87	12	312.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.48	UnDef	UnDef
3.44	5.0E-04	0.00	763.4	1.85	12	303.1	UnDef	UnDef	0.0	50	95.0	1.0	-0.47	UnDef	UnDef
3.77	5.0E-03	0.00	693.8	1.72	12	301.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.45	UnDef	UnDef
4.10	5.0E-04	0.00	620.7	1.87	12	293.1	UnDef	UnDef	0.0	50	95.0	1.0	-0.45	UnDef	UnDef
4.43	5.0E-04	0.00	508.5	1.79	9	256.9	2.7	259.5	5.4	48	94.3	1.0	-0.42	0.5	84.3
4.76	5.0E-03	0.00	444.2	1.65	9	232.6	2.0	234.6	5.3	48	91.5	1.0	-0.39	0.3	57.2
5.09	5.0E-04	0.00	421.3	1.77	9	228.1	6.3	234.4	6.0	48	90.9	1.0	-0.40	1.3	75.7
5.41	5.0E-04	0.00	436.7	1.84	9	243.8	7.5	251.3	6.1	48	92.8	1.0	-0.41	1.5	81.0
5.74	5.0E-03	0.00	414.9	1.52	9	238.5	0.3	238.8	5.0	48	92.2	1.0	-0.37	0.0	58.4
6.07	5.0E-03	0.00	470.0	1.55	9	277.8	0.0	277.8	4.7	48	95.0	1.0	-0.39	0.0	68.0
6.40	5.0E-03	0.00	522.2	1.94	12	317.0	UnDef	UnDef	0.0	48	95.0	1.0	-0.44	UnDef	UnDef
6.73	5.0E-04	0.00	504.2	2.06	12	313.8	UnDef	UnDef	0.0	48	95.0	1.0	-0.45	UnDef	UnDef
7.05	5.0E-04	0.00	465.4	2.09	12	296.5	UnDef	UnDef	0.0	48	95.0	1.0	-0.44	UnDef	UnDef
7.38	5.0E-04	0.00	432.3	2.10	12	281.7	UnDef	UnDef	0.0	48	95.0	1.0	-0.43	UnDef	UnDef
7.79	5.0E-04	0.00	398.7	2.02	9	266.9	16.8	283.7	7.2	48	95.0	1.0	-0.42	3.4	90.4
8.20	5.0E-03	0.00	393.9	1.88	9	270.5	13.1	283.6	6.7	48	95.0	1.0	-0.40	2.0	68.2
8.53	5.0E-04	0.00	363.1	2.20	12	254.4	UnDef	UnDef	0.0	48	94.0	1.0	-0.42	UnDef	UnDef
8.86	5.0E-04	0.00	331.1	2.05	9	236.4	22.0	258.4	8.2	48	91.9	1.0	-0.40	4.3	81.5
9.19	5.0E-04	0.00	270.1	2.06	9	196.4	25.3	221.7	9.3	46	86.6	1.0	-0.38	4.9	69.0
9.51	5.0E-04	0.00	230.8	2.09	9	170.9	28.1	199.0	10.3	46	82.6	1.0	-0.36	5.4	61.2
9.84	5.0E-04	0.00	204.5	2.12	9	154.0	30.5	184.5	11.2	46	79.7	1.0	-0.35	5.8	56.0
10.17	5.0E-04	0.00	168.2	2.15	9	128.9	33.2	162.0	12.7	44	74.5	1.0	-0.33	6.2	48.2
10.50	5.0E-04	0.00	155.2	2.02	9	120.9	31.3	152.1	12.7	44	72.7	1.0	-0.31	5.8	45.2
10.83	5.0E-04	0.00	145.7	2.29	7	115.3	38.4	153.7	14.4	44	71.4	1.0	-0.33	7.0	44.6
11.15	5.0E-04	-0.01	131.2	2.00	7	105.1	32.9	138.0	13.9	44	68.7	1.0	-0.29	6.0	40.3
11.48	5.0E-04	0.00	125.4	1.83	7	101.2	29.6	130.8	13.5	44	67.6	1.0	-0.28	5.4	38.5
11.81	5.0E-04	0.00	113.2	2.16	7	92.1	37.8	129.9	15.9	42	64.9	1.0	-0.29	6.7	36.7
[illegible]14	5.0E-04	-0.01	102.0	1.78	7	83.6	30.5	114.1	15.0	42	62.2	1.0	-0.25	5.5	32.8
[illegible].47	5.0E-04	-0.01	84.0	1.88	7	69.5	34.1	103.6	17.3	42	56.8	1.0	-0.24	5.9	28.5
12.80	5.0E-04	-0.01	73.1	1.81	7	61.0	33.9	94.9	18.4	40	53.1	1.0	-0.22	5.7	25.6

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5807
CPT File: 717CP00N.COR

[illegible]h (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-04	-0.01	66.5	1.66	7	55.9	32.0	87.9	18.6	40	50.6	1.0	-0.20	5.4	23.6
13.45	5.0E-04	-0.01	60.5	1.70	7	51.3	33.9	85.2	19.9	40	48.2	1.0	-0.19	5.5	22.3
13.78	5.0E-04	-0.01	59.9	1.63	7	51.1	32.6	83.7	19.6	40	48.1	1.0	-0.19	5.4	22.1
14.11	5.0E-04	-0.01	61.8	1.60	7	53.0	31.8	84.8	19.0	40	49.1	1.0	-0.19	5.3	22.6
14.44	5.0E-04	0.00	60.0	1.33	7	51.9	26.7	78.6	17.7	40	48.5	1.0	-0.17	4.6	21.5
14.76	5.0E-04	0.00	60.3	1.54	7	52.4	31.2	83.6	19.0	40	48.8	1.0	-0.18	5.2	22.3
15.09	5.0E-05	-0.01	50.9	1.83	7	44.7	39.9	84.6	22.7	38	44.2	10.0	-0.18	7.3	24.8
15.42	5.0E-04	-0.01	42.2	1.21	7	37.4	27.9	65.3	21.0	38	39.1	1.0	-0.12	4.4	16.7
15.75	5.0E-05	0.00	32.6	1.27	7	29.3	33.3	62.6	24.9	36	32.1	10.0	-0.10	5.7	17.2
16.08	5.0E-04	0.00	41.8	0.92	7	37.5	22.0	59.5	18.8	38	39.2	1.0	-0.10	3.7	15.9
16.40	5.0E-04	0.00	42.1	0.87	7	38.0	21.0	59.1	18.3	38	39.6	1.0	-0.09	3.6	16.0
16.73	5.0E-04	0.00	37.5	0.57	7	34.2	15.8	50.0	16.9	38	36.5	1.0	-0.05	2.8	13.9
17.06	5.0E-05	0.00	22.6	0.54	7	21.2	20.1	41.3	23.3	34	30.0	10.0	0.00	3.6	11.9
17.39	5.0E-05	0.02	19.5	0.49	7	18.5	0.0	18.5	5.0	32	30.0	9.1	0.02	0.0	7.3
17.72	5.0E-05	0.03	19.6	0.55	7	18.7	22.7	41.5	25.5	34	30.0	9.2	0.01	3.8	11.2
18.04	5.0E-05	0.02	21.6	0.52	7	20.6	20.5	41.2	23.7	34	30.0	10.0	0.01	3.7	11.7
18.37	5.0E-05	0.02	19.4	0.54	7	18.8	23.0	41.8	25.6	32	30.0	9.0	0.01	3.9	11.2
18.70	5.0E-05	0.02	18.7	0.74	7	18.2	31.3	49.4	28.7	32	30.0	8.5	0.00	4.7	11.8
19.03	5.0E-05	0.01	17.6	0.62	7	17.3	28.1	45.4	28.2	32	30.0	7.7	0.01	4.3	11.1
19.36	5.0E-05	0.05	13.4	0.68	7	13.5	44.7	58.3	33.7	32	30.0	5.1	0.03	4.9	10.2
19.68	5.0E-05	0.05	14.4	0.66	7	14.5	38.8	53.3	32.2	32	30.0	5.7	0.03	4.7	10.4
20.01	5.0E-05	0.04	14.0	0.63	7	14.3	38.8	53.1	32.4	32	30.0	5.4	0.03	4.7	10.3
20.34	5.0E-05	0.05	12.5	0.62	7	12.9	47.2	60.1	34.4	30	30.0	4.5	0.05	4.9	9.9
20.67	5.0E-05	0.05	12.2	0.63	7	12.6	50.5	63.2	35.1	30	30.0	4.4	0.05	4.9	9.9
21.00	5.0E-05	0.03	13.6	0.68	7	14.1	45.0	59.0	33.5	32	30.0	5.2	0.03	5.0	10.5
21.33	5.0E-05	0.01	17.9	0.69	7	18.2	31.7	49.9	28.8	32	30.0	7.9	0.00	4.7	11.8
21.65	5.0E-05	0.01	21.3	0.67	7	21.5	26.8	48.3	25.8	34	30.0	10.0	-0.01	4.5	12.9
[illegible]98	5.0E-05	0.01	19.2	0.71	7	19.6	30.9	50.5	27.9	32	30.0	8.8	-0.01	4.8	12.4
[illegible]81	5.0E-05	0.05	9.1	0.91	6	10.1	40.3	50.4	44.4	30	30.0	2.9	0.05	3.9	7.9
22.64	1.0E-07	0.19	5.1	0.51	1	6.3	UnDef	UnDef	100.0	UnDef	UnDef	1.4	UnDef	UnDef	UnDef
22.97	1.0E-07	0.29	3.6	0.43	1	4.8	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
23.29	1.0E-07	0.51	2.2	0.47	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
23.62	1.0E-07	0.66	1.6	0.62	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
23.95	1.0E-07	0.67	1.7	0.60	1	3.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
24.28	1.0E-07	0.86	1.3	0.77	1	2.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
24.61	1.0E-07	1.61	0.7	1.41	1	2.1	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
24.93	1.0E-07	1.19	0.9	1.05	1	2.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
25.26	1.0E-07	0.83	1.3	0.77	1	2.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
25.59	1.0E-07	0.52	1.5	0.62	1	3.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
25.92	1.0E-07	0.71	1.5	0.65	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
26.25	1.0E-07	1.04	1.0	0.90	1	2.5	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
26.57	1.0E-07	0.56	1.8	0.52	1	3.3	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
26.90	1.0E-07	0.34	2.6	0.35	1	4.2	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
27.23	1.0E-07	0.30	2.9	0.32	1	4.4	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
27.56	1.0E-07	0.18	4.5	0.21	1	6.1	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
27.89	1.0E-07	0.18	4.4	0.63	1	6.0	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
28.21	5.0E-05	0.06	10.8	0.71	6	12.7	50.6	63.3	38.4	30	30.0	3.7	0.05	5.0	9.9
28.54	5.0E-05	0.02	17.3	1.04	7	19.4	57.5	77.0	33.0	32	30.0	7.5	-0.02	6.7	14.3
28.87	5.0E-05	0.01	17.4	1.08	7	19.6	60.6	80.2	33.3	32	30.0	7.6	-0.03	6.9	14.5
29.20	5.0E-05	0.01	18.4	0.79	7	20.8	39.0	59.8	29.5	32	30.0	8.3	-0.01	5.6	13.7
29.53	5.0E-05	0.01	18.7	1.08	7	21.1	55.5	76.5	32.1	32	30.0	8.5	-0.03	6.8	15.1
29.86	5.0E-04	0.01	26.7	1.32	7	29.6	48.6	78.1	28.3	36	32.4	1.0	-0.08	6.1	15.8
30.18	5.0E-04	-0.01	44.0	1.52	7	47.9	42.4	90.3	22.6	38	46.2	1.0	-0.15	6.5	22.1
30.59	5.0E-04	-0.01	60.7	2.02	7	65.8	52.2	118.0	21.6	40	55.3	1.0	-0.21	8.2	29.7
31.00	5.0E-04	-0.01	55.8	1.93	7	61.0	51.2	112.2	22.1	40	53.1	1.0	-0.20	8.0	27.8
31.33	5.0E-04	-0.02	42.6	1.22	7	47.1	34.9	82.0	20.9	38	45.7	1.0	-0.12	5.6	20.9
31.66	5.0E-03	-0.01	40.1	0.48	9	44.6	0.0	44.6	5.0	38	44.2	1.0	-0.04	0.0	10.9
31.99	5.0E-05	0.01	23.0	1.34	7	26.4	58.1	84.5	30.8	34	30.0	10.0	-0.07	7.8	18.1
[illegible]32	5.0E-05	0.02	19.5	1.25	7	22.7	65.4	88.2	32.8	34	30.0	9.1	-0.05	7.7	16.6
[illegible].64	5.0E-05	0.03	15.5	1.00	6	18.5	70.1	88.6	34.6	32	30.0	6.3	-0.01	7.1	14.3
32.97	5.0E-05	0.03	13.2	0.65	7	16.0	52.7	68.7	33.7	32	30.0	4.9	0.04	5.8	12.1
33.30	5.0E-05	0.03	9.4	0.52	6	11.9	47.6	59.6	38.7	30	30.0	3.0	0.08	4.7	9.3

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-05	0.06	8.4	1.19	6	10.9	43.7	54.6	49.3	30	30.0	2.6	0.04	4.3	8.5
33.96	5.0E-05	0.01	13.3	1.34	6	16.4	65.5	81.8	40.7	32	30.0	5.0	-0.02	6.4	12.8
34.28	5.0E-05	0.01	14.7	1.08	6	17.9	71.6	89.5	36.4	32	30.0	5.8	-0.01	7.0	14.0
34.61	5.0E-05	0.01	13.6	1.16	6	16.8	67.1	83.9	38.7	32	30.0	5.2	-0.01	6.6	13.1
34.94	5.0E-05	0.01	13.3	1.41	6	16.5	66.1	82.7	41.3	32	30.0	5.0	-0.02	6.5	12.9
35.27	5.0E-05	0.05	8.4	1.57	6	11.1	44.5	55.6	52.8	30	30.0	2.6	0.02	4.4	8.7
35.60	5.0E-05	0.07	8.0	0.72	6	10.7	43.0	53.7	45.0	30	30.0	2.4	0.08	4.2	8.4
35.92	5.0E-05	0.07	8.8	0.22	1	11.6	UnDef	UnDef	100.0	30	30.0	2.7	0.16	UnDef	UnDef
36.25	5.0E-05	0.14	5.2	0.52	1	7.6	UnDef	UnDef	100.0	30	30.0	1.4	0.15	UnDef	UnDef
36.58	5.0E-05	0.06	10.1	0.82	6	13.2	52.7	65.9	41.3	30	30.0	3.3	0.05	5.2	10.3
36.91	5.0E-05	0.04	9.8	1.54	6	12.9	51.5	64.3	49.0	30	30.0	3.2	0.01	5.0	10.1
37.24	5.0E-05	0.10	6.5	1.14	6	9.2	36.9	46.1	55.0	30	30.0	1.8	0.07	3.6	7.2
37.57	1.0E-07	0.23	4.1	0.27	1	6.5	UnDef	UnDef	100.0	UnDef	UnDef	1.1	UnDef	UnDef	UnDef
37.89	1.0E-07	0.22	4.2	0.18	1	6.6	UnDef	UnDef	100.0	UnDef	UnDef	1.1	UnDef	UnDef	UnDef
38.22	1.0E-07	0.21	4.7	0.39	1	7.2	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
38.55	5.0E-06	0.06	8.3	2.11	4	11.4	45.4	56.8	57.4	UnDef	UnDef	2.5	UnDef	5.6	11.1
38.88	5.0E-04	0.01	16.0	0.68	7	20.4	43.5	63.9	30.5	32	30.0	1.0	0.02	4.9	11.6
39.21	5.0E-05	0.02	9.2	0.71	6	12.5	49.9	62.4	41.8	30	30.0	2.9	0.06	4.9	9.8
39.53	5.0E-05	0.16	5.5	0.84	6	8.3	33.3	41.6	55.6	30	30.0	1.5	0.11	3.3	6.5
39.86	5.0E-05	0.19	5.2	0.47	1	8.0	UnDef	UnDef	100.0	30	30.0	1.4	0.16	UnDef	UnDef
40.19	5.0E-05	0.10	7.4	0.62	6	10.5	41.9	52.4	45.7	30	30.0	2.1	0.10	4.1	8.2
40.52	5.0E-05	0.06	11.1	1.26	6	14.9	59.8	74.7	43.7	30	30.0	3.8	0.01	5.9	11.7
40.85	5.0E-05	0.02	13.1	1.62	6	17.3	69.2	86.5	43.4	32	30.0	4.9	-0.03	6.8	13.5
41.17	5.0E-05	0.07	8.1	1.62	6	11.5	46.1	57.6	54.0	30	30.0	2.5	0.03	4.5	9.0
41.50	5.0E-05	0.19	5.4	0.90	6	8.3	33.1	41.4	57.2	30	30.0	1.4	0.12	3.2	6.5
41.83	5.0E-06	0.14	5.3	2.79	4	8.2	32.8	41.0	74.0	UnDef	UnDef	1.4	UnDef	4.0	8.0
42.16	5.0E-05	0.07	8.2	2.00	4	11.7	46.7	58.4	56.8	30	30.0	2.5	0.01	4.6	9.1
[illegible]49	5.0E-05	0.01	13.2	1.59	6	17.7	70.8	88.5	42.9	32	30.0	4.9	-0.03	6.9	13.9
[illegible]81	5.0E-05	0.01	13.3	1.72	6	17.8	71.4	89.2	43.8	32	30.0	5.0	-0.03	7.0	14.0
43.14	5.0E-05	0.04	10.6	1.90	6	14.7	58.7	73.4	50.0	30	30.0	3.6	-0.01	5.7	11.5
43.47	5.0E-05	0.10	10.1	1.28	6	14.2	56.7	70.9	45.9	30	30.0	3.3	0.02	5.6	11.1
43.80	5.0E-05	0.13	8.1	1.07	6	11.7	46.9	58.7	49.0	30	30.0	2.4	0.06	4.6	9.2
44.13	5.0E-05	0.10	9.9	0.53	6	13.9	55.7	69.7	37.9	30	30.0	3.2	0.08	5.5	10.9
44.45	5.0E-05	0.09	10.5	0.69	6	14.7	59.0	73.7	38.7	30	30.0	3.5	0.06	5.8	11.5
44.78	5.0E-05	0.09	10.5	1.18	6	14.7	59.0	73.7	44.3	30	30.0	3.5	0.02	5.8	11.5
45.11	5.0E-05	0.08	12.7	2.30	6	17.5	70.0	87.5	48.7	32	30.0	4.7	-0.04	6.8	13.7
45.44	5.0E-06	0.03	9.6	2.57	4	13.8	55.3	69.2	56.7	UnDef	UnDef	3.1	UnDef	6.8	13.5
45.77	5.0E-06	0.17	3.2	3.03	1	5.9	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
46.10	5.0E-06	0.14	3.7	2.50	4	6.6	26.5	33.1	82.9	UnDef	UnDef	1.0	UnDef	3.2	6.5
46.42	5.0E-07	0.04	4.0	3.96	1	7.0	UnDef	UnDef	100.0	UnDef	UnDef	1.1	UnDef	UnDef	UnDef
46.75	5.0E-08	-0.19	3.0	5.23	1	5.8	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
47.08	5.0E-08	-0.15	3.3	5.03	1	6.2	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
47.41	5.0E-08	-0.10	6.1	4.96	1	9.7	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
47.74	5.0E-08	-0.10	7.5	6.16	1	11.5	UnDef	UnDef	100.0	UnDef	UnDef	2.2	UnDef	UnDef	UnDef
48.06	5.0E-08	-0.05	12.6	4.86	1	17.9	UnDef	UnDef	100.0	UnDef	UnDef	4.6	UnDef	UnDef	UnDef
48.39	5.0E-06	-0.04	16.3	3.64	4	22.5	90.0	112.4	50.5	UnDef	UnDef	6.8	UnDef	11.0	22.0
48.72	5.0E-06	0.01	14.0	4.12	1	19.7	UnDef	UnDef	100.0	UnDef	UnDef	5.4	UnDef	UnDef	UnDef
49.05	5.0E-06	0.04	15.4	3.34	4	21.5	86.1	107.6	50.3	UnDef	UnDef	6.3	UnDef	10.5	21.1
49.38	5.0E-05	0.12	14.8	2.79	6	20.9	83.5	104.4	48.2	32	30.0	5.9	-0.07	8.2	16.3
49.70	5.0E-05	0.15	15.2	2.77	6	21.4	85.6	107.0	47.6	32	30.0	6.1	-0.07	8.4	16.8
50.03	5.0E-06	0.25	13.7	3.88	1	19.6	UnDef	UnDef	100.0	UnDef	UnDef	5.3	UnDef	UnDef	UnDef
50.36	5.0E-07	0.15	17.1	4.47	1	23.9	UnDef	UnDef	100.0	UnDef	UnDef	7.3	UnDef	UnDef	UnDef
50.69	5.0E-05	0.09	20.1	3.13	6	27.8	111.1	138.9	43.9	34	30.6	9.5	-0.13	10.9	21.8
51.02	5.0E-07	0.08	16.1	4.69	1	22.7	UnDef	UnDef	100.0	UnDef	UnDef	6.7	UnDef	UnDef	UnDef
51.34	5.0E-07	0.08	19.1	4.51	1	26.7	UnDef	UnDef	100.0	UnDef	UnDef	8.8	UnDef	UnDef	UnDef
51.67	5.0E-05	0.01	26.5	2.79	6	36.2	144.8	181.0	37.3	36	38.2	10.0	-0.16	14.2	28.3
52.00	5.0E-05	-0.03	26.7	2.61	6	36.5	146.1	182.7	36.3	36	38.4	10.0	-0.15	14.3	28.6
52.33	5.0E-06	-0.05	15.6	3.57	4	22.4	89.5	111.9	51.1	UnDef	UnDef	6.4	UnDef	11.0	21.9
[illegible]66	5.0E-08	-0.05	10.9	6.24	1	16.4	UnDef	UnDef	100.0	UnDef	UnDef	3.7	UnDef	UnDef	UnDef
[illegible]98	5.0E-08	-0.03	12.7	5.13	1	18.7	UnDef	UnDef	100.0	UnDef	UnDef	4.7	UnDef	UnDef	UnDef
53.31	5.0E-07	-0.03	9.3	4.64	1	14.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
53.64	5.0E-08	0.00	10.0	5.32	1	15.3	UnDef	UnDef	100.0	UnDef	UnDef	3.3	UnDef	UnDef	UnDef

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5807
CPT File: 717CP00N.COR

[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
53.97	5.0E-08	0.02	11.2	5.81	1	16.9	UnDef	UnDef	100.0	UnDef	UnDef	3.9	UnDef	UnDef	UnDef
54.30	5.0E-08	0.04	12.1	5.34	1	18.1	UnDef	UnDef	100.0	UnDef	UnDef	4.3	UnDef	UnDef	UnDef
54.63	5.0E-08	0.08	8.5	5.74	1	13.4	UnDef	UnDef	100.0	UnDef	UnDef	2.6	UnDef	UnDef	UnDef
54.95	5.0E-06	0.15	6.2	3.09	1	10.5	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
55.28	5.0E-06	0.27	4.5	2.34	4	8.3	33.0	41.3	75.6	UnDef	UnDef	1.2	UnDef	4.0	8.1
55.61	5.0E-05	0.45	3.6	1.22	4	7.1	28.3	35.4	72.5	30	30.0	1.0	0.18	2.8	5.5
55.94	5.0E-05	0.38	4.0	1.37	4	7.7	30.6	38.3	70.7	30	30.0	1.1	0.15	3.0	6.0
56.27	5.0E-05	0.17	8.8	1.24	6	14.0	56.1	70.1	48.7	30	30.0	2.7	0.05	5.5	11.0
56.59	5.0E-06	0.02	7.3	3.26	1	12.1	UnDef	UnDef	100.0	UnDef	UnDef	2.1	UnDef	UnDef	UnDef
56.92	5.0E-08	-0.04	3.7	5.43	1	7.3	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
57.25	5.0E-08	0.12	2.1	5.99	1	5.1	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
57.58	1.0E-07	0.48	1.5	1.56	4	4.4	17.8	22.2	100.0	UnDef	UnDef	0.6	UnDef	2.2	4.3
57.91	1.0E-07	0.70	1.6	0.68	1	4.5	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
58.23	1.0E-07	0.39	2.8	0.19	1	6.2	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	UnDef	UnDef
58.56	1.0E-07	0.84	1.2	0.43	1	4.1	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
58.89	1.0E-07	1.17	1.0	0.51	1	3.8	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
59.22	1.0E-07	1.39	0.9	0.56	1	3.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
59.55	1.0E-07	1.02	1.2	0.44	1	4.0	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
59.87	1.0E-07	0.86	1.3	0.41	1	4.2	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
60.20	1.0E-07	0.57	1.9	0.27	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
60.53	1.0E-07	0.56	2.2	0.24	1	5.4	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
60.86	5.0E-04	0.01	17.2	0.27	7	25.9	0.0	25.9	5.0	32	30.0	1.0	0.08	0.0	8.4
61.19	5.0E-04	0.00	23.1	0.97	7	34.1	51.3	85.4	27.5	34	36.4	1.0	-0.05	6.7	17.8
61.52	5.0E-04	0.01	24.1	0.80	7	35.6	41.9	77.4	25.2	34	37.7	1.0	-0.04	5.9	17.5
61.84	5.0E-03	0.01	22.6	0.57	7	33.6	33.4	67.0	23.7	34	36.0	1.0	0.00	3.7	11.9
62.17	5.0E-03	0.01	22.6	0.56	7	33.6	33.0	66.6	23.5	34	36.0	1.0	0.00	3.7	11.9
62.50	5.0E-03	0.01	24.7	0.76	7	36.6	39.9	76.4	24.5	34	38.4	1.0	-0.03	4.3	13.3
[illegible]83	5.0E-05	0.02	15.7	2.27	6	24.2	96.7	120.9	44.2	32	30.0	6.4	-0.07	9.5	18.9
[illegible]16	5.0E-05	0.08	8.3	1.89	4	14.0	56.1	70.1	55.7	30	30.0	2.5	0.02	5.5	11.0
63.48	5.0E-04	0.06	14.0	0.32	7	22.0	0.0	22.0	5.0	32	30.0	1.0	0.09	0.0	7.2
63.81	5.0E-04	0.06	14.2	0.80	7	22.3	78.7	101.0	34.2	32	30.0	1.0	0.02	6.9	14.2
64.14	5.0E-04	0.06	12.2	0.54	7	19.6	64.6	84.3	33.7	30	30.0	1.0	0.06	5.9	12.3
64.47	5.0E-03	0.03	22.0	0.18	7	33.4	0.0	33.4	5.0	34	35.8	1.0	0.09	0.0	8.2
64.80	5.0E-03	0.00	32.3	0.40	7	47.9	0.0	47.9	5.0	36	46.2	1.0	-0.01	0.0	11.7
65.12	5.0E-03	0.00	38.7	0.51	7	57.0	22.9	79.9	15.7	38	51.2	1.0	-0.04	3.0	17.0
65.45	5.0E-03	0.00	38.9	0.91	7	57.5	36.7	94.1	19.6	38	51.4	1.0	-0.09	4.5	18.6
65.78	5.0E-03	0.00	36.9	0.72	7	54.7	31.1	85.9	18.6	38	50.0	1.0	-0.07	3.9	17.3
66.11	5.0E-03	0.00	43.1	0.71	7	63.6	28.5	92.1	16.6	38	54.3	1.0	-0.08	3.7	19.3
66.44	5.0E-03	0.00	46.4	0.72	7	68.5	27.8	96.3	15.8	38	56.4	1.0	-0.09	3.7	20.4
66.76	5.0E-03	0.00	48.9	0.64	9	72.2	24.7	96.8	14.5	38	57.9	1.0	-0.08	3.3	21.0
67.09	5.0E-03	0.00	47.4	0.99	7	70.3	36.9	107.2	17.9	38	57.2	1.0	-0.12	4.7	21.9
67.42	5.0E-02	0.00	56.4	0.60	9	83.2	21.2	104.5	12.6	40	62.0	1.0	-0.09	2.4	18.7
67.75	5.0E-02	-0.01	57.1	0.47	9	84.5	0.0	84.5	5.0	40	62.4	1.0	-0.07	0.0	16.5
68.08	5.0E-02	-0.01	57.7	0.77	9	85.5	26.7	112.1	13.9	40	62.8	1.0	-0.11	2.9	19.7
68.40	5.0E-03	-0.01	49.8	1.13	7	74.3	41.3	115.6	18.4	38	58.8	1.0	-0.13	5.2	23.4
68.73	5.0E-03	-0.01	39.2	0.69	7	59.2	29.9	89.0	17.6	38	52.2	1.0	-0.07	3.8	18.3

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Job No: 04-0401-1123-5857
[redacted] No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: DIKE S
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 17:34
CPT File: 717CP00S.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 2.87 (ft): 9.4
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.16	30.6	0.20	0.66	0.0	7	117.8	0.01	0.01	0.00	2.00	9.8	19.5	UnDef	0.10
0.49	101.0	0.84	0.83	-1.5	8	120.9	0.03	0.03	0.00	2.00	24.2	48.4	UnDef	0.00
0.82	172.6	2.08	1.20	-5.1	8	120.9	0.05	0.05	0.00	2.00	41.3	82.6	UnDef	0.00
1.15	200.8	3.41	1.70	-9.6	8	120.9	0.07	0.07	0.00	2.00	48.1	96.2	UnDef	0.00
[redacted]48	201.8	4.05	2.01	-10.2	7	117.8	0.09	0.09	0.00	2.00	64.4	128.9	UnDef	0.00
[redacted]80	197.5	4.32	2.19	-9.3	7	117.8	0.11	0.11	0.00	2.00	63.0	126.1	UnDef	0.00
2.13	191.2	4.28	2.24	-9.0	7	117.8	0.13	0.13	0.00	2.00	61.0	122.0	UnDef	0.00
2.46	177.1	3.52	1.99	-8.3	7	117.8	0.15	0.15	0.00	2.00	56.5	113.1	UnDef	0.00
2.79	143.5	3.23	2.25	-8.8	7	117.8	0.17	0.17	0.00	2.00	45.8	91.6	UnDef	0.00
3.12	121.3	2.41	1.98	-5.1	7	117.8	0.19	0.19	0.00	2.00	38.7	77.4	UnDef	0.00
3.44	105.6	1.79	1.69	-9.2	7	117.8	0.20	0.20	0.00	2.00	33.7	67.4	UnDef	0.00
3.77	99.2	1.58	1.59	-10.4	7	117.8	0.22	0.22	0.00	2.00	31.7	63.3	UnDef	0.00
4.10	93.4	1.40	1.50	-7.9	7	117.8	0.24	0.24	0.00	2.00	29.8	59.6	UnDef	0.00
4.43	91.9	1.36	1.48	-7.8	8	120.9	0.26	0.26	0.00	1.95	22.0	42.9	UnDef	0.00
4.76	106.3	1.64	1.54	-4.5	8	120.9	0.28	0.28	0.00	1.88	25.5	47.9	UnDef	0.00
5.09	135.0	2.21	1.64	-9.2	8	120.9	0.30	0.30	0.00	1.82	32.3	58.8	UnDef	0.00
5.41	177.9	3.25	1.83	-8.2	8	120.9	0.32	0.32	0.00	1.76	42.6	75.1	UnDef	0.00
5.74	241.8	4.07	1.69	-5.7	8	120.9	0.34	0.34	0.00	1.71	57.9	99.0	UnDef	0.00
6.07	256.8	5.03	1.96	-3.8	8	120.9	0.36	0.36	0.00	1.66	61.5	102.2	UnDef	0.00
6.40	247.2	4.83	1.95	-3.0	8	120.9	0.38	0.38	0.00	1.62	59.2	95.8	UnDef	0.00
6.73	225.2	3.96	1.76	-5.3	8	120.9	0.40	0.40	0.00	1.58	53.9	85.1	UnDef	0.00
7.05	220.7	4.35	1.97	-6.9	8	120.9	0.42	0.42	0.00	1.54	52.8	81.4	UnDef	0.00
7.38	198.7	3.99	2.01	-5.5	7	117.8	0.44	0.44	0.00	1.51	63.4	95.5	UnDef	0.00
7.79	164.6	3.94	2.40	-6.7	7	117.8	0.47	0.47	0.00	1.47	52.6	77.1	UnDef	0.00
8.20	121.5	2.98	2.46	-8.1	7	117.8	0.49	0.49	0.00	1.43	38.8	55.4	UnDef	0.00
8.53	105.3	1.79	1.70	-10.2	7	117.8	0.51	0.51	0.00	1.40	33.6	47.2	UnDef	0.00
8.86	95.8	1.23	1.29	-6.0	8	120.9	0.53	0.53	0.00	1.38	22.9	31.6	UnDef	0.34
9.19	86.1	0.96	1.12	-6.8	8	120.9	0.55	0.55	0.00	1.35	20.6	27.8	UnDef	0.26
9.51	79.8	0.82	1.02	-5.8	8	120.9	0.57	0.56	0.00	1.33	19.1	25.4	UnDef	0.22
9.84	73.6	0.57	0.78	-2.3	8	120.9	0.59	0.57	0.01	1.32	17.6	23.3	UnDef	0.18
10.17	66.6	0.60	0.90	-3.9	8	120.9	0.61	0.58	0.02	1.31	15.9	20.9	UnDef	0.16
10.50	57.8	0.53	0.92	-5.4	7	117.8	0.63	0.59	0.03	1.30	18.5	24.0	UnDef	0.14
10.83	51.0	0.37	0.72	0.6	7	117.8	0.65	0.60	0.04	1.29	16.3	21.0	UnDef	0.12
11.15	45.7	0.34	0.73	0.1	7	117.8	0.67	0.61	0.05	1.28	14.6	18.7	UnDef	0.11
11.48	40.9	0.27	0.66	2.0	7	117.8	0.68	0.62	0.06	1.27	13.1	16.6	UnDef	0.10
[redacted]81	38.3	0.17	0.43	5.1	7	117.8	0.70	0.63	0.08	1.26	12.2	15.4	UnDef	0.09
[redacted]14	40.4	0.20	0.50	2.9	7	117.8	0.72	0.64	0.09	1.25	12.9	16.2	UnDef	0.10
12.47	38.5	0.26	0.66	3.7	7	117.8	0.74	0.65	0.10	1.24	12.3	15.3	UnDef	0.10
12.80	31.5	0.16	0.49	4.4	7	117.8	0.76	0.66	0.11	1.23	10.0	12.4	UnDef	0.09

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5857
CPT File: 717CP00S.COR

[illegible]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
13.12	29.5	0.16	0.53	6.0	7	117.8	0.78	0.67	0.12	1.23	9.4	11.5	UnDef	0.09
13.45	23.8	0.12	0.50	5.1	7	117.8	0.80	0.67	0.13	1.22	7.6	9.3	UnDef	0.09
13.78	19.8	0.08	0.40	8.2	7	117.8	0.82	0.68	0.14	1.21	6.3	7.7	UnDef	0.00
14.11	20.8	0.20	0.96	12.9	6	114.6	0.84	0.69	0.15	1.20	8.0	9.6	1.60	0.09
14.44	19.3	0.17	0.88	4.8	6	114.6	0.86	0.70	0.16	1.19	7.4	8.9	1.48	0.09
14.76	17.7	0.09	0.51	4.0	6	114.6	0.88	0.71	0.17	1.19	6.8	8.0	1.34	0.09
15.09	16.8	0.07	0.39	9.8	6	114.6	0.90	0.72	0.18	1.18	6.5	7.6	1.28	0.00
15.42	15.3	0.05	0.33	9.8	6	114.6	0.91	0.73	0.19	1.17	5.9	6.9	1.15	0.00
15.75	15.2	0.09	0.56	8.8	6	114.6	0.93	0.74	0.20	1.17	5.8	6.8	1.15	0.09
16.08	13.7	0.05	0.37	10.7	6	114.6	0.95	0.74	0.21	1.16	5.2	6.1	1.02	0.00
16.40	12.2	0.05	0.37	19.3	6	114.6	0.97	0.75	0.22	1.15	4.7	5.4	0.90	0.00
16.73	11.2	0.04	0.31	19.7	6	114.6	0.99	0.76	0.23	1.15	4.3	4.9	0.82	0.00
17.06	11.7	0.06	0.52	20.5	6	114.6	1.01	0.77	0.24	1.14	4.5	5.1	0.85	0.09
17.39	12.1	0.05	0.37	22.0	6	114.6	1.03	0.78	0.25	1.13	4.6	5.3	0.89	0.00
17.72	8.8	0.02	0.23	18.1	1	111.4	1.05	0.79	0.26	1.13	4.2	4.8	0.62	0.00
18.04	6.1	0.01	0.16	27.1	1	111.4	1.06	0.79	0.27	1.12	2.9	3.3	0.40	0.00
18.37	6.6	0.01	0.15	28.7	1	111.4	1.08	0.80	0.28	1.12	3.2	3.5	0.44	0.00
18.70	5.1	0.05	0.88	31.9	1	111.4	1.10	0.81	0.29	1.11	2.5	2.7	0.32	0.00
19.03	12.3	0.16	1.27	17.9	6	114.6	1.12	0.82	0.30	1.11	4.7	5.2	0.89	0.11
19.36	32.4	0.27	0.82	17.1	7	117.8	1.14	0.83	0.31	1.10	10.3	11.4	UnDef	0.10
19.68	73.1	0.74	1.01	12.6	8	120.9	1.16	0.84	0.32	1.09	17.5	19.1	UnDef	0.16
20.01	87.3	1.08	1.23	1.8	8	120.9	1.18	0.85	0.33	1.09	20.9	22.7	UnDef	0.22
20.34	78.4	0.80	1.02	0.0	8	120.9	1.20	0.86	0.34	1.08	18.8	20.3	UnDef	0.18
20.67	65.1	0.61	0.94	4.4	8	120.9	1.22	0.87	0.35	1.07	15.6	16.7	UnDef	0.14
21.00	45.5	0.53	1.17	5.9	7	117.8	1.24	0.88	0.36	1.07	14.5	15.5	UnDef	0.12
21.33	30.1	0.43	1.43	10.4	6	114.6	1.26	0.88	0.37	1.06	11.5	12.3	2.31	0.12
21.65	17.9	0.34	1.87	11.2	6	114.6	1.27	0.89	0.38	1.06	6.9	7.3	1.33	0.15
[illegible]98	16.2	0.13	0.77	17.6	6	114.6	1.29	0.90	0.39	1.05	6.2	6.5	1.19	0.10
[illegible]31	10.1	0.07	0.70	23.0	6	114.6	1.31	0.91	0.40	1.05	3.9	4.0	0.70	0.09
22.64	8.0	0.06	0.75	34.0	5	114.6	1.33	0.92	0.41	1.04	3.9	4.0	0.54	0.09
22.97	9.2	0.06	0.65	40.3	6	114.6	1.35	0.93	0.42	1.04	3.5	3.7	0.63	0.09
23.29	9.9	0.06	0.56	39.0	6	114.6	1.37	0.94	0.43	1.03	3.8	3.9	0.68	0.09
23.62	8.7	0.05	0.58	41.2	6	114.6	1.39	0.94	0.44	1.03	3.3	3.4	0.58	0.09
23.95	8.3	0.04	0.42	44.9	1	111.4	1.41	0.95	0.45	1.02	4.0	4.1	0.55	0.09
24.28	8.6	0.04	0.47	43.5	6	114.6	1.42	0.96	0.46	1.02	3.3	3.3	0.57	0.09
24.61	7.4	0.03	0.41	44.4	1	111.4	1.44	0.97	0.47	1.02	3.5	3.6	0.48	0.00
24.93	8.9	0.18	2.03	48.2	5	114.6	1.46	0.98	0.48	1.01	4.3	4.3	0.59	0.09
25.26	56.3	0.65	1.16	28.4	7	117.8	1.48	0.99	0.49	1.01	18.0	18.1	UnDef	0.13
25.59	71.7	0.79	1.10	6.9	8	120.9	1.50	1.00	0.51	1.00	17.2	17.2	UnDef	0.16
25.92	59.7	0.66	1.10	4.0	7	117.8	1.52	1.00	0.52	1.00	19.1	19.0	UnDef	0.14
26.25	42.3	0.38	0.89	0.4	7	117.8	1.54	1.01	0.53	0.99	13.5	13.4	UnDef	0.11
26.57	26.0	0.23	0.87	8.1	7	117.8	1.56	1.02	0.54	0.99	8.3	8.2	UnDef	0.10
26.90	16.7	0.20	1.20	29.1	6	114.6	1.58	1.03	0.55	0.98	6.4	6.3	1.21	0.13
27.23	20.7	0.25	1.18	41.6	6	114.6	1.60	1.04	0.56	0.98	7.9	7.8	1.53	0.15
27.56	37.5	0.53	1.42	24.3	7	117.8	1.62	1.05	0.57	0.98	12.0	11.7	UnDef	0.13
27.89	63.7	0.73	1.14	9.7	7	117.8	1.63	1.06	0.58	0.97	20.3	19.8	UnDef	0.14
28.21	55.3	0.53	0.96	-1.0	7	117.8	1.65	1.07	0.59	0.97	17.6	17.1	UnDef	0.12
28.54	39.7	0.50	1.26	8.7	7	117.8	1.67	1.08	0.60	0.96	12.7	12.2	UnDef	0.12
28.87	40.7	0.54	1.32	22.2	7	117.8	1.69	1.09	0.61	0.96	13.0	12.5	UnDef	0.13
29.20	43.7	0.51	1.16	25.3	7	117.8	1.71	1.09	0.62	0.96	13.9	13.3	UnDef	0.12
29.53	46.6	0.44	0.93	22.3	7	117.8	1.73	1.10	0.63	0.95	14.9	14.2	UnDef	0.11
29.86	54.4	0.69	1.27	10.0	7	117.8	1.75	1.11	0.64	0.95	17.4	16.5	UnDef	0.14
30.18	73.1	1.21	1.65	2.5	7	117.8	1.77	1.12	0.65	0.94	23.3	22.0	UnDef	0.20
30.59	59.7	0.99	1.66	-6.3	7	117.8	1.79	1.13	0.66	0.94	19.1	17.9	UnDef	0.17
31.00	47.4	0.75	1.59	6.5	7	117.8	1.82	1.14	0.67	0.93	15.1	14.1	UnDef	0.15
31.33	54.6	0.82	1.50	25.8	7	117.8	1.84	1.15	0.68	0.93	17.4	16.2	UnDef	0.15
31.66	66.0	0.94	1.43	26.1	7	117.8	1.86	1.16	0.69	0.93	21.1	19.5	UnDef	0.17
31.99	68.7	1.02	1.49	26.5	7	117.8	1.88	1.17	0.70	0.92	21.9	20.3	UnDef	0.18
[illegible]32	74.0	1.11	1.50	23.2	7	117.8	1.90	1.18	0.71	0.92	23.6	21.7	UnDef	0.19
[illegible]64	89.2	1.36	1.52	20.6	7	117.8	1.91	1.19	0.73	0.92	28.5	26.1	UnDef	0.23
32.97	101.2	1.47	1.46	19.7	8	120.9	1.93	1.20	0.74	0.91	24.2	22.1	UnDef	0.26
33.30	97.1	1.38	1.42	20.8	8	120.9	1.95	1.21	0.75	0.91	23.3	21.2	UnDef	0.24

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5857
CPT File: 717CP00S.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
33.63	75.9	0.89	1.17	19.5	8	120.9	1.97	1.22	0.76	0.91	18.2	16.5	UnDef	0.17
33.96	50.0	0.60	1.19	34.0	7	117.8	1.99	1.23	0.77	0.90	16.0	14.4	UnDef	0.13
34.28	40.2	0.52	1.30	51.1	7	117.8	2.01	1.24	0.78	0.90	12.8	11.5	UnDef	0.13
34.61	44.5	0.45	1.01	42.7	7	117.8	2.03	1.25	0.79	0.90	14.2	12.7	UnDef	0.12
34.94	36.6	0.34	0.93	46.8	7	117.8	2.05	1.25	0.80	0.89	11.7	10.4	UnDef	0.11
35.27	26.7	0.38	1.43	50.0	6	114.6	2.07	1.26	0.81	0.89	10.2	9.1	1.97	0.23
35.60	24.8	0.26	1.03	43.4	6	114.6	2.09	1.27	0.82	0.89	9.5	8.4	1.82	0.14
35.92	20.9	0.12	0.58	41.9	7	117.8	2.11	1.28	0.83	0.88	6.7	5.9	UnDef	0.10
36.25	11.3	0.03	0.22	52.1	6	114.6	2.13	1.29	0.84	0.88	4.3	3.8	0.74	0.00
36.58	5.2	0.02	0.38	76.6	1	111.4	2.15	1.30	0.85	0.88	2.5	2.2	0.25	0.00
36.91	4.6	0.02	0.44	73.5	1	111.4	2.16	1.31	0.86	0.88	2.2	1.9	0.19	0.00
37.24	3.8	0.02	0.40	74.9	1	111.4	2.18	1.31	0.87	0.87	1.8	1.6	0.13	0.00
37.57	4.3	0.01	0.24	77.9	1	111.4	2.20	1.32	0.88	0.87	2.0	1.8	0.17	0.00
37.89	4.9	0.02	0.31	74.8	1	111.4	2.22	1.33	0.89	0.87	2.3	2.0	0.21	0.00
38.22	4.8	0.02	0.31	84.7	1	111.4	2.24	1.34	0.90	0.86	2.3	2.0	0.21	0.00
38.55	4.6	0.07	1.43	72.1	1	111.4	2.26	1.35	0.91	0.86	2.2	1.9	0.18	0.00
38.88	9.5	0.17	1.73	54.3	5	114.6	2.27	1.35	0.92	0.86	4.6	3.9	0.58	0.09
39.21	8.6	0.19	2.15	53.2	5	114.6	2.29	1.36	0.93	0.86	4.1	3.5	0.51	0.00
39.53	3.4	0.08	2.20	80.3	3	111.4	2.31	1.37	0.94	0.85	3.3	2.8	0.09	0.00
39.86	3.0	0.02	0.51	82.3	1	111.4	2.33	1.38	0.95	0.85	1.4	1.2	0.05	0.00
40.19	3.4	0.01	0.29	80.4	1	111.4	2.35	1.39	0.96	0.85	1.6	1.4	0.09	0.00
40.52	3.4	0.01	0.29	82.2	1	111.4	2.37	1.40	0.97	0.85	1.7	1.4	0.09	0.00
40.85	1.9	0.01	0.52	87.3	1	111.4	2.38	1.40	0.98	0.84	0.9	0.8	0.00	0.00
41.17	3.5	0.01	0.29	89.1	1	111.4	2.40	1.41	0.99	0.84	1.7	1.4	0.09	0.00
41.50	5.2	0.03	0.48	77.0	1	111.4	2.42	1.42	1.00	0.84	2.5	2.1	0.22	0.00
41.83	3.5	0.04	1.00	87.7	1	111.4	2.44	1.43	1.01	0.84	1.7	1.4	0.09	0.00
42.16	3.8	0.02	0.53	79.0	1	111.4	2.46	1.44	1.02	0.83	1.8	1.5	0.11	0.00
[illegible]49	3.9	0.02	0.38	83.1	1	111.4	2.48	1.44	1.03	0.83	1.9	1.6	0.12	0.00
[illegible]81	3.9	0.01	0.26	86.4	1	111.4	2.49	1.45	1.04	0.83	1.9	1.6	0.11	0.00
43.14	3.6	0.02	0.55	89.6	1	111.4	2.51	1.46	1.05	0.83	1.7	1.4	0.09	0.00
43.47	3.4	0.01	0.30	93.5	1	111.4	2.53	1.47	1.06	0.83	1.6	1.3	0.07	0.00
43.80	4.4	0.01	0.23	95.3	1	111.4	2.55	1.48	1.07	0.82	2.1	1.7	0.15	0.00
44.13	6.3	0.04	0.64	92.0	1	111.4	2.57	1.48	1.08	0.82	3.0	2.5	0.30	0.00
44.45	7.1	0.08	1.07	108.4	5	114.6	2.59	1.49	1.09	0.82	3.4	2.8	0.36	0.00
44.78	8.2	0.08	0.98	102.7	5	114.6	2.60	1.50	1.10	0.82	3.9	3.2	0.45	0.08
45.11	6.7	0.07	0.97	102.3	5	114.6	2.62	1.51	1.11	0.81	3.2	2.6	0.33	0.00
45.44	5.5	0.07	1.28	89.4	1	111.4	2.64	1.52	1.12	0.81	2.6	2.1	0.23	0.00
45.77	5.6	0.06	1.07	103.7	1	111.4	2.66	1.53	1.13	0.81	2.7	2.2	0.24	0.00
46.10	5.4	0.06	1.02	100.7	1	111.4	2.68	1.53	1.14	0.81	2.6	2.1	0.22	0.00
46.42	4.8	0.05	0.93	105.1	1	111.4	2.70	1.54	1.16	0.81	2.3	1.9	0.17	0.00
46.75	4.5	0.05	1.00	100.1	1	111.4	2.72	1.55	1.17	0.80	2.2	1.7	0.14	0.00
47.08	4.7	0.04	0.74	102.5	1	111.4	2.73	1.56	1.18	0.80	2.3	1.8	0.16	0.00
47.41	4.1	0.02	0.49	113.2	1	111.4	2.75	1.57	1.19	0.80	2.0	1.6	0.11	0.00
47.74	4.0	0.02	0.50	97.6	1	111.4	2.77	1.57	1.20	0.80	1.9	1.5	0.10	0.00
48.06	4.4	0.04	0.91	82.7	1	111.4	2.79	1.58	1.21	0.80	2.1	1.7	0.13	0.00
48.39	4.7	0.04	0.86	77.3	1	111.4	2.81	1.59	1.22	0.79	2.2	1.8	0.15	0.00
48.72	6.6	0.13	1.99	63.4	4	114.6	2.83	1.60	1.23	0.79	4.2	3.3	0.30	0.00
49.05	6.7	0.20	2.91	55.7	3	111.4	2.84	1.61	1.24	0.79	6.4	5.1	0.31	0.00
49.38	5.5	0.20	3.62	45.4	3	111.4	2.86	1.61	1.25	0.79	5.3	4.2	0.21	0.00
49.70	4.2	0.11	2.65	54.9	3	111.4	2.88	1.62	1.26	0.79	4.0	3.1	0.10	0.00
50.03	3.7	0.08	2.04	63.0	3	111.4	2.90	1.63	1.27	0.78	3.5	2.8	0.06	0.00
50.36	3.8	0.07	1.72	72.6	1	111.4	2.92	1.64	1.28	0.78	1.8	1.4	0.07	0.00
50.69	3.8	0.07	1.70	73.9	1	111.4	2.93	1.65	1.29	0.78	1.8	1.4	0.07	0.00
51.02	5.1	0.06	1.08	75.0	1	111.4	2.95	1.65	1.30	0.78	2.4	1.9	0.17	0.00
51.34	5.3	0.06	1.03	71.9	1	111.4	2.97	1.66	1.31	0.78	2.6	2.0	0.19	0.00
51.67	6.8	0.15	2.15	89.5	4	114.6	2.99	1.67	1.32	0.77	4.3	3.3	0.30	0.00
52.00	19.3	0.73	3.76	22.8	4	114.6	3.01	1.68	1.33	0.77	12.3	9.5	1.31	0.00
52.33	22.0	0.89	4.03	-4.2	4	114.6	3.03	1.69	1.34	0.77	14.1	10.8	1.52	0.00
[illegible]66	17.8	0.48	2.70	-12.1	5	114.6	3.05	1.70	1.35	0.77	8.5	6.5	1.18	0.00
[illegible]98	16.5	0.40	2.39	-8.2	5	114.6	3.07	1.71	1.36	0.77	7.9	6.1	1.08	0.10
53.31	18.7	0.45	2.41	-3.5	5	114.6	3.08	1.71	1.37	0.76	9.0	6.8	1.25	0.11
53.64	21.1	0.38	1.81	2.8	6	114.6	3.10	1.72	1.38	0.76	8.1	6.1	1.44	0.13

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5857
CPT File: 717CP00S.COR

[redacted]th (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
53.97	20.9	0.52	2.47	10.7	5	114.6	3.12	1.73	1.39	0.76	10.0	7.6	1.43	0.12
54.30	22.6	0.61	2.70	14.9	5	114.6	3.14	1.74	1.40	0.76	10.8	8.2	1.56	0.14
54.63	19.4	0.37	1.89	18.9	6	114.6	3.16	1.75	1.41	0.76	7.4	5.6	1.30	0.11
54.95	17.8	0.35	1.97	34.3	6	114.6	3.18	1.76	1.42	0.75	6.8	5.2	1.17	0.11
55.28	23.9	0.70	2.94	160.2	5	114.6	3.20	1.77	1.43	0.75	11.4	8.6	1.65	0.14
55.61	35.4	1.25	3.52	86.2	5	114.6	3.22	1.77	1.44	0.75	17.0	12.7	2.58	0.29
55.94	11.5	0.33	2.88	-21.7	4	114.6	3.23	1.78	1.45	0.75	7.3	5.5	0.66	0.00
56.27	7.5	0.11	1.47	-20.4	5	114.6	3.25	1.79	1.46	0.75	3.6	2.7	0.34	0.00
56.59	7.8	0.09	1.15	-18.6	5	114.6	3.27	1.80	1.47	0.75	3.8	2.8	0.37	0.00
56.92	7.7	0.09	1.17	-16.9	5	114.6	3.29	1.81	1.48	0.74	3.7	2.7	0.35	0.00
57.25	9.6	0.36	3.75	-15.8	3	111.4	3.31	1.82	1.49	0.74	9.2	6.8	0.51	0.00
57.58	17.2	0.60	3.49	-14.3	4	114.6	3.33	1.82	1.50	0.74	11.0	8.1	1.11	0.00
57.91	29.0	0.17	0.59	-12.3	7	117.8	3.35	1.83	1.51	0.74	9.3	6.8	UnDef	0.13
58.23	15.2	0.06	0.39	-10.5	6	114.6	3.37	1.84	1.52	0.74	5.8	4.3	0.95	0.10
58.56	9.7	0.02	0.21	33.3	6	114.6	3.38	1.85	1.53	0.74	3.7	2.7	0.51	0.00
58.89	6.9	0.03	0.43	51.5	1	111.4	3.40	1.86	1.54	0.73	3.3	2.4	0.28	0.00
59.22	6.9	0.04	0.51	69.0	1	111.4	3.42	1.87	1.55	0.73	3.3	2.4	0.28	0.00
59.55	7.5	0.04	0.54	86.3	1	111.4	3.44	1.88	1.56	0.73	3.6	2.6	0.32	0.00
59.87	7.1	0.04	0.56	102.8	1	111.4	3.46	1.88	1.57	0.73	3.4	2.5	0.29	0.00
60.20	6.4	0.05	0.78	121.3	1	111.4	3.48	1.89	1.59	0.73	3.1	2.2	0.24	0.00
60.53	6.4	0.05	0.70	132.2	1	111.4	3.49	1.90	1.60	0.73	3.1	2.2	0.24	0.00
60.86	7.9	0.05	0.57	132.6	1	111.4	3.51	1.91	1.61	0.72	3.8	2.8	0.35	0.00
61.19	10.3	0.07	0.63	122.2	6	114.6	3.53	1.92	1.62	0.72	3.9	2.9	0.54	0.08
61.52	9.8	0.05	0.51	114.0	6	114.6	3.55	1.92	1.63	0.72	3.8	2.7	0.50	0.00
61.84	8.8	0.05	0.57	137.7	6	114.6	3.57	1.93	1.64	0.72	3.4	2.4	0.41	0.00
62.17	10.3	0.06	0.58	121.3	6	114.6	3.59	1.94	1.65	0.72	4.0	2.8	0.54	0.00
62.50	16.3	0.07	0.40	115.0	6	114.6	3.61	1.95	1.66	0.72	6.3	4.5	1.02	0.10
[redacted]83	17.9	0.16	0.90	74.0	6	114.6	3.63	1.96	1.67	0.71	6.9	4.9	1.14	0.10
[redacted]16	15.4	0.07	0.42	88.7	6	114.6	3.64	1.97	1.68	0.71	5.9	4.2	0.94	0.09
63.48	11.7	0.08	0.68	100.1	6	114.6	3.66	1.98	1.69	0.71	4.5	3.2	0.65	0.09
63.81	22.7	0.09	0.37	92.7	7	117.8	3.68	1.98	1.70	0.71	7.3	5.2	UnDef	0.13
64.14	32.1	0.14	0.42	48.3	7	117.8	3.70	1.99	1.71	0.71	10.3	7.3	UnDef	0.00
64.47	22.9	0.17	0.72	60.5	7	117.8	3.72	2.00	1.72	0.71	7.3	5.2	UnDef	0.13
64.80	13.8	0.24	1.71	76.0	5	114.6	3.74	2.01	1.73	0.71	6.6	4.7	0.80	0.09
65.12	13.9	0.23	1.66	64.2	5	114.6	3.76	2.02	1.74	0.70	6.6	4.7	0.81	0.09
65.45	25.9	0.19	0.74	65.4	7	117.8	3.78	2.03	1.75	0.70	8.3	5.8	UnDef	0.15
65.78	38.3	0.18	0.46	50.9	7	117.8	3.80	2.04	1.76	0.70	12.2	8.6	UnDef	0.11
66.11	44.0	0.17	0.39	48.7	8	120.9	3.82	2.05	1.77	0.70	10.5	7.4	UnDef	0.08
66.44	25.6	0.53	2.07	53.4	6	114.6	3.84	2.06	1.78	0.70	9.8	6.9	1.74	0.14
66.76	15.1	0.53	3.50	84.7	4	114.6	3.85	2.06	1.79	0.70	9.6	6.7	0.90	0.00

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.00.19M
Run No: 04-0401-1123-5857
Job No: 04-717
Client: MACTEC
Project: TVA Kingston
Site: DIKE S
Location: TVA Kingston
Cone: 20 TON AD142
CPT Date: 04/24/03
CPT Time: 17:34
CPT File: 717CP00S.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 2.87 (ft): 9.4
Unit Weight of Water (User Specified): 62.40 pcf
Su Nkt used: 12.50 Su/P' (nc): 0.30
Averaging Increment (m): 0.10
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.16	5.0E-04	0.00	1000.0	0.66	10	58.6	0.0	58.6	0.0	50	95.0	1.0	-0.36	0.0	19.5
0.49	5.0E-03	0.00	1000.0	0.83	10	193.5	0.0	193.5	0.0	50	95.0	1.0	-0.38	0.0	48.4
0.82	5.0E-03	0.00	1000.0	1.20	9	330.5	0.0	330.5	1.3	50	95.0	1.0	-0.43	0.0	82.6
1.15	5.0E-03	0.00	1000.0	1.70	12	384.7	UnDef	UnDef	0.0	50	95.0	1.0	-0.48	UnDef	UnDef
1.48	5.0E-04	0.00	1000.0	2.01	12	386.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.51	UnDef	UnDef
[illegible]80	5.0E-04	0.00	1000.0	2.19	12	378.2	UnDef	UnDef	0.0	50	95.0	1.0	-0.53	UnDef	UnDef
[illegible]13	5.0E-04	0.00	1000.0	2.24	12	366.1	UnDef	UnDef	0.0	50	95.0	1.0	-0.54	UnDef	UnDef
2.46	5.0E-04	0.00	1000.0	1.99	12	339.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.51	UnDef	UnDef
2.79	5.0E-04	0.00	864.9	2.25	12	274.9	UnDef	UnDef	0.0	50	95.0	1.0	-0.52	UnDef	UnDef
3.12	5.0E-04	0.00	654.3	1.99	12	232.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.47	UnDef	UnDef
3.44	5.0E-04	0.00	515.7	1.70	9	202.3	0.0	202.3	5.0	48	91.0	1.0	-0.41	0.0	67.4
3.77	5.0E-04	0.00	442.5	1.59	9	190.0	0.5	190.6	5.1	48	87.9	1.0	-0.39	0.1	63.5
4.10	5.0E-04	0.00	383.3	1.51	9	178.9	1.5	180.3	5.3	48	85.0	1.0	-0.37	0.3	59.9
4.43	5.0E-03	0.00	349.0	1.49	9	175.5	2.9	178.5	5.6	48	83.4	1.0	-0.35	0.4	43.4
4.76	5.0E-03	0.00	375.4	1.55	9	195.7	3.0	198.7	5.6	48	86.5	1.0	-0.37	0.5	48.3
5.09	5.0E-03	0.00	445.7	1.64	9	240.3	1.7	242.1	5.3	48	92.4	1.0	-0.39	0.3	59.1
5.41	5.0E-03	0.00	551.4	1.83	12	306.8	UnDef	UnDef	0.0	50	95.0	1.0	-0.43	UnDef	UnDef
5.74	5.0E-03	0.00	706.0	1.69	12	404.6	UnDef	UnDef	0.0	50	95.0	1.0	-0.44	UnDef	UnDef
6.07	5.0E-03	0.00	708.8	1.96	12	417.8	UnDef	UnDef	0.0	50	95.0	1.0	-0.47	UnDef	UnDef
6.40	5.0E-03	0.00	646.6	1.96	12	391.5	UnDef	UnDef	0.0	50	95.0	1.0	-0.46	UnDef	UnDef
6.73	5.0E-03	0.00	560.0	1.76	12	347.8	UnDef	UnDef	0.0	50	95.0	1.0	-0.43	UnDef	UnDef
7.05	5.0E-03	0.00	522.9	1.97	12	332.8	UnDef	UnDef	0.0	48	95.0	1.0	-0.44	UnDef	UnDef
7.38	5.0E-04	0.00	449.6	2.02	12	292.8	UnDef	UnDef	0.0	48	95.0	1.0	-0.43	UnDef	UnDef
7.79	5.0E-04	0.00	353.0	2.40	12	236.2	UnDef	UnDef	0.0	48	91.9	1.0	-0.44	UnDef	UnDef
8.20	5.0E-04	0.00	247.3	2.47	9	169.9	34.6	204.6	11.3	46	82.5	1.0	-0.40	6.6	62.0
8.53	5.0E-04	0.00	206.1	1.71	9	144.5	19.0	163.6	9.4	46	77.8	1.0	-0.32	3.7	50.9
8.86	5.0E-03	0.00	180.5	1.29	9	129.0	11.9	140.9	8.2	44	74.6	1.0	-0.27	1.8	33.3
9.19	5.0E-03	0.00	156.1	1.13	9	113.8	10.5	124.3	8.2	44	71.0	1.0	-0.24	1.5	29.4
9.51	5.0E-03	0.00	140.5	1.03	9	104.0	10.0	114.0	8.3	44	68.4	1.0	-0.22	1.5	26.9
9.84	5.0E-03	0.00	127.3	0.78	9	95.1	6.3	101.4	7.3	44	65.8	1.0	-0.19	0.9	24.2
10.17	5.0E-03	0.00	113.1	0.91	9	85.3	10.4	95.7	9.1	42	62.7	1.0	-0.19	1.5	22.4
10.50	5.0E-04	0.00	96.5	0.93	9	73.5	12.5	86.0	10.4	42	58.4	1.0	-0.18	2.4	26.4
10.83	5.0E-04	0.00	83.7	0.73	9	64.3	10.1	74.5	10.1	42	54.6	1.0	-0.14	2.0	22.9
11.15	5.0E-04	0.00	73.8	0.75	9	57.3	11.7	69.0	11.4	40	51.3	1.0	-0.13	2.2	20.9
11.48	5.0E-04	0.00	64.9	0.67	9	50.9	11.5	62.4	11.9	40	47.9	1.0	-0.11	2.2	18.8
11.81	5.0E-04	0.00	59.8	0.44	9	47.3	0.0	47.3	5.0	40	45.8	1.0	-0.07	0.0	15.4
[illegible]14	5.0E-04	0.00	62.2	0.51	9	49.5	8.9	58.4	10.7	40	47.1	1.0	-0.09	1.7	17.9
[illegible]47	5.0E-04	0.00	58.4	0.68	9	46.9	12.7	59.6	13.0	40	45.6	1.0	-0.10	2.4	17.6
12.80	5.0E-04	0.00	46.8	0.51	9	38.0	11.3	49.3	13.6	38	39.6	1.0	-0.06	2.1	14.5

ConeTec Inc. - CPT Interpretation
Run No: 04-0401-1123-5857
CPT File: 717CP00S.COR

[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
13.12	5.0E-04	0.00	43.2	0.54	9	35.4	12.6	48.0	14.8	38	37.5	1.0	-0.06	2.3	13.8
13.45	5.0E-04	0.00	34.1	0.52	7	28.4	14.1	42.5	17.4	36	31.2	1.0	-0.03	2.4	11.7
13.78	5.0E-04	0.01	27.8	0.42	7	23.5	0.0	23.5	5.0	36	30.0	1.0	0.00	0.0	7.7
14.11	5.0E-05	0.01	28.9	1.00	7	24.5	26.6	51.1	24.5	36	30.0	10.0	-0.07	4.6	14.2
14.44	5.0E-05	0.00	26.4	0.92	7	22.6	26.1	48.7	25.1	36	30.0	10.0	-0.06	4.5	13.3
14.76	5.0E-05	0.00	23.7	0.54	7	20.5	18.1	38.7	22.5	34	30.0	10.0	0.00	3.3	11.4
15.09	5.0E-05	0.01	22.2	0.41	7	19.5	0.0	19.5	5.0	34	30.0	10.0	0.02	0.0	7.6
15.42	5.0E-05	0.01	19.8	0.35	7	17.6	0.0	17.6	5.0	34	30.0	9.3	0.05	0.0	6.9
15.75	5.0E-05	0.01	19.5	0.60	7	17.4	22.9	40.3	26.3	32	30.0	9.1	0.01	3.8	10.6
16.08	5.0E-05	0.01	17.1	0.39	7	15.5	0.0	15.5	5.0	32	30.0	7.4	0.05	0.0	6.1
16.40	5.0E-05	0.03	15.0	0.40	7	13.8	0.0	13.8	5.0	32	30.0	6.0	0.06	0.0	5.4
16.73	5.0E-05	0.04	13.4	0.34	7	12.6	0.0	12.6	5.0	32	30.0	5.1	0.08	0.0	4.9
17.06	5.0E-05	0.04	13.8	0.56	7	13.0	32.5	45.5	31.7	32	30.0	5.3	0.04	4.1	9.2
17.39	5.0E-05	0.04	14.2	0.41	7	13.4	0.0	13.4	5.0	32	30.0	5.6	0.07	0.0	5.3
17.72	1.0E-07	0.04	9.9	0.26	7	9.8	0.0	9.8	5.0	UnDef	UnDef	3.2	UnDef	0.0	4.8
18.04	1.0E-07	0.11	6.3	0.20	1	6.7	UnDef	UnDef	100.0	UnDef	UnDef	1.8	UnDef	UnDef	UnDef
18.37	1.0E-07	0.11	6.9	0.18	1	7.2	UnDef	UnDef	100.0	UnDef	UnDef	2.0	UnDef	UnDef	UnDef
18.70	1.0E-07	0.17	5.0	1.12	4	5.6	22.3	27.9	61.9	UnDef	UnDef	1.3	UnDef	2.7	5.5
19.03	5.0E-05	0.02	13.6	1.40	6	13.3	53.0	66.3	40.8	32	30.0	5.2	-0.02	5.2	10.4
19.36	5.0E-04	0.01	37.7	0.85	7	34.8	22.0	56.8	19.5	38	37.0	1.0	-0.08	3.6	15.0
19.68	5.0E-03	0.00	86.0	1.03	9	78.2	18.4	96.6	12.1	42	60.2	1.0	-0.18	2.6	21.7
20.01	5.0E-03	0.00	101.7	1.25	9	92.9	21.7	114.6	12.1	42	65.2	1.0	-0.21	3.1	25.8
20.34	5.0E-03	0.00	90.2	1.03	9	83.0	18.1	101.1	11.7	42	61.9	1.0	-0.18	2.6	22.9
20.67	5.0E-03	0.00	73.7	0.96	9	68.4	18.6	87.1	13.0	40	56.4	1.0	-0.16	2.6	19.3
21.00	5.0E-04	0.00	50.6	1.20	7	47.6	27.6	75.2	18.7	38	46.0	1.0	-0.14	4.6	20.2
21.33	5.0E-05	0.00	32.6	1.49	7	31.3	42.3	73.6	26.5	36	34.0	10.0	-0.12	6.9	19.1
21.65	5.0E-05	0.00	18.6	2.02	6	18.6	74.2	92.8	39.2	32	30.0	8.4	-0.08	7.3	14.5
[redacted]98	5.0E-05	0.01	16.6	0.84	7	16.7	42.2	58.9	31.8	32	30.0	7.0	0.00	5.3	11.9
[redacted]31	5.0E-05	0.04	9.6	0.80	6	10.3	41.3	51.7	42.0	30	30.0	3.1	0.05	4.0	8.1
22.64	5.0E-06	0.10	7.3	0.90	6	8.2	32.9	41.1	49.4	UnDef	UnDef	2.1	UnDef	4.0	8.0
22.97	5.0E-05	0.11	8.5	0.76	6	9.4	37.5	46.9	44.3	30	30.0	2.6	0.07	3.7	7.3
23.29	5.0E-05	0.09	9.1	0.65	6	10.0	40.0	50.0	41.2	30	30.0	2.9	0.08	3.9	7.8
23.62	5.0E-05	0.12	7.7	0.69	6	8.7	34.9	43.6	45.5	30	30.0	2.3	0.09	3.4	6.8
23.95	1.0E-07	0.14	7.2	0.51	6	8.3	33.3	41.6	44.3	UnDef	UnDef	2.1	UnDef	4.1	8.1
24.28	5.0E-05	0.13	7.4	0.56	6	8.6	34.2	42.8	44.5	30	30.0	2.2	0.11	3.3	6.7
24.61	1.0E-07	0.15	6.1	0.51	1	7.4	UnDef	UnDef	100.0	UnDef	UnDef	1.7	UnDef	UnDef	UnDef
24.93	5.0E-06	0.14	7.6	2.43	4	8.8	35.2	44.0	61.7	UnDef	UnDef	2.2	UnDef	4.3	8.6
25.26	5.0E-04	0.01	55.7	1.19	7	55.5	28.0	83.6	17.6	40	50.4	1.0	-0.15	4.8	22.9
25.59	5.0E-03	0.00	70.6	1.13	9	70.3	24.4	94.8	14.7	40	57.2	1.0	-0.17	3.3	20.5
25.92	5.0E-04	-0.01	57.9	1.13	7	58.3	26.5	84.8	16.7	40	51.8	1.0	-0.15	4.6	23.6
26.25	5.0E-04	-0.01	40.2	0.92	7	41.1	25.5	66.6	19.3	38	41.8	1.0	-0.10	4.2	17.6
26.57	5.0E-04	-0.01	23.9	0.92	7	25.2	34.1	59.3	26.5	34	30.0	1.0	-0.05	4.6	12.8
26.90	5.0E-05	0.02	14.7	1.32	6	16.1	64.4	80.5	38.7	32	30.0	5.8	-0.02	6.3	12.6
27.23	5.0E-05	0.04	18.4	1.28	6	19.9	69.5	89.4	34.1	32	30.0	8.3	-0.04	7.4	15.2
27.56	5.0E-04	0.01	34.2	1.48	7	35.9	44.4	80.3	25.7	36	37.9	1.0	-0.12	6.2	17.9
27.89	5.0E-04	0.00	58.7	1.17	7	60.6	28.1	88.7	16.9	40	52.9	1.0	-0.15	4.9	24.7
28.21	5.0E-04	-0.01	50.3	0.99	7	52.4	25.4	77.8	17.2	38	48.7	1.0	-0.12	4.4	21.5
28.54	5.0E-04	-0.01	35.3	1.32	7	37.4	39.2	76.6	24.2	38	39.1	1.0	-0.11	5.7	17.9
28.87	5.0E-04	0.00	36.0	1.37	7	38.3	40.7	78.9	24.3	38	39.7	1.0	-0.12	5.9	18.4
29.20	5.0E-04	0.00	38.4	1.21	7	40.9	34.7	75.6	22.2	38	41.6	1.0	-0.11	5.4	18.7
29.53	5.0E-04	0.00	40.7	0.97	7	43.5	27.7	71.2	19.6	38	43.4	1.0	-0.10	4.6	18.7
29.86	5.0E-04	-0.01	47.4	1.31	7	50.5	34.9	85.4	20.3	38	47.7	1.0	-0.14	5.7	22.1
30.18	5.0E-04	-0.01	63.6	1.69	7	67.6	41.6	109.1	19.3	40	56.0	1.0	-0.20	6.9	28.9
30.59	5.0E-04	-0.01	51.1	1.71	7	54.9	45.3	100.2	21.9	38	50.1	1.0	-0.18	7.1	25.0
31.00	5.0E-04	-0.01	39.8	1.65	7	43.4	48.3	91.7	24.7	38	43.3	1.0	-0.15	7.0	21.1
31.33	5.0E-04	0.00	45.8	1.55	7	49.8	42.7	92.5	22.3	38	47.3	1.0	-0.15	6.6	22.8
31.66	5.0E-04	0.00	55.2	1.47	7	59.9	38.0	97.9	19.5	40	52.6	1.0	-0.17	6.3	25.8
31.99	5.0E-04	0.00	57.0	1.53	7	62.1	39.4	101.5	19.5	40	53.6	1.0	-0.17	6.5	26.8
[redacted]32	5.0E-04	0.00	61.0	1.54	7	66.6	39.1	105.7	18.9	40	55.6	1.0	-0.18	6.5	28.3
32.64	5.0E-04	0.00	73.4	1.56	7	80.0	37.5	117.6	17.0	40	60.9	1.0	-0.20	6.5	32.6
32.97	5.0E-03	0.00	82.8	1.49	7	90.4	34.5	124.9	15.4	42	64.4	1.0	-0.21	4.6	26.7
33.30	5.0E-03	0.00	78.8	1.45	7	86.5	34.4	120.8	15.6	42	63.1	1.0	-0.20	4.6	25.7

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[illegible]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
33.63	5.0E-03	0.00	60.7	1.20	7	67.3	30.6	97.9	16.7	40	55.9	1.0	-0.16	4.0	20.5
33.96	5.0E-04	0.01	39.1	1.24	7	44.2	37.6	81.8	22.2	38	43.8	1.0	-0.12	5.8	20.2
34.28	5.0E-04	0.02	30.9	1.36	7	35.4	47.1	82.5	26.4	36	37.5	1.0	-0.10	6.4	18.0
34.61	5.0E-04	0.01	34.1	1.06	7	39.0	34.8	73.8	22.7	36	40.3	1.0	-0.09	5.3	18.0
34.94	5.0E-04	0.02	27.5	0.99	7	31.9	36.8	68.7	25.0	36	34.6	1.0	-0.06	5.2	15.7
35.27	5.0E-05	0.03	19.5	1.55	6	23.2	92.8	116.0	35.2	34	30.0	9.0	-0.06	9.1	18.2
35.60	5.0E-05	0.02	17.9	1.12	7	21.5	66.1	87.7	33.3	32	30.0	7.9	-0.03	7.5	16.0
35.92	5.0E-04	0.03	14.7	0.64	7	18.1	44.7	62.8	31.7	32	30.0	1.0	0.03	4.7	10.6
36.25	5.0E-05	0.09	7.1	0.27	1	9.8	UnDef	UnDef	100.0	30	30.0	2.1	0.16	UnDef	UnDef
36.58	1.0E-07	0.50	2.4	0.65	1	4.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
36.91	1.0E-07	0.59	1.9	0.82	1	3.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
37.24	1.0E-07	0.93	1.2	0.95	1	3.2	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
37.57	1.0E-07	0.75	1.6	0.49	1	3.6	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
37.89	1.0E-07	0.55	2.0	0.57	1	4.1	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
38.22	1.0E-07	0.67	1.9	0.58	1	4.1	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
38.55	1.0E-07	0.58	1.7	2.84	1	3.8	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
38.88	5.0E-06	0.11	5.4	2.27	4	8.0	32.1	40.1	70.0	UnDef	UnDef	1.5	UnDef	3.9	7.9
39.21	5.0E-06	0.12	4.6	2.93	1	7.2	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
39.53	5.0E-08	1.42	0.8	6.82	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
39.86	1.0E-07	2.52	0.5	2.34	1	2.5	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
40.19	1.0E-07	1.41	0.8	0.91	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
40.52	1.0E-07	1.48	0.8	0.93	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
40.85	1.0E-07	166.88	0.0	10.00	1	1.6	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
41.17	1.0E-07	1.65	0.8	0.93	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
41.50	1.0E-07	0.51	1.9	0.91	1	4.3	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
41.83	1.0E-07	1.61	0.7	3.28	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
42.16	1.0E-07	1.09	0.9	1.51	1	3.1	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
[illegible]49	1.0E-07	1.07	1.0	1.03	1	3.2	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
[illegible]81	1.0E-07	1.16	1.0	0.70	1	3.2	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
43.14	1.0E-07	1.54	0.8	1.77	1	3.0	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
43.47	1.0E-07	2.20	0.6	1.19	1	2.7	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
43.80	1.0E-07	1.02	1.3	0.54	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
44.13	1.0E-07	0.48	2.5	1.08	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	0.8	UnDef	2.8	5.5
44.45	5.0E-06	0.51	3.0	1.68	4	5.7	22.6	28.3	83.1	UnDef	UnDef	1.0	UnDef	3.2	6.4
44.78	5.0E-06	0.38	3.7	1.44	4	6.5	26.1	32.7	73.9	UnDef	UnDef	0.8	UnDef	2.6	5.2
45.11	5.0E-06	0.51	2.7	1.59	4	5.3	21.4	26.7	85.7	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
45.44	1.0E-07	0.58	1.9	2.46	1	4.4	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	2.2	4.3
45.77	1.0E-07	0.72	1.9	2.05	4	4.4	17.7	22.2	100.0	UnDef	UnDef	0.6	UnDef	2.1	4.2
46.10	1.0E-07	0.73	1.8	2.01	4	4.3	17.1	21.4	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
46.42	1.0E-07	0.99	1.4	2.11	1	3.8	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
46.75	1.0E-07	1.10	1.1	2.54	1	3.5	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	1.8	3.6
47.08	1.0E-07	1.01	1.3	1.76	4	3.7	14.8	18.5	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
47.41	1.0E-07	1.73	0.9	1.48	1	3.2	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
47.74	1.0E-07	1.50	0.8	1.63	1	3.1	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
48.06	1.0E-07	0.85	1.0	2.47	1	3.4	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
48.39	1.0E-07	0.64	1.2	2.15	1	3.6	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
48.72	5.0E-07	0.20	2.3	3.49	1	5.1	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
49.05	5.0E-08	0.13	2.4	5.05	1	5.2	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
49.38	5.0E-08	0.06	1.7	7.47	1	4.3	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
49.70	5.0E-08	0.36	0.8	8.64	1	3.2	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
50.03	5.0E-08	0.89	0.5	9.64	1	2.8	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
50.36	1.0E-07	1.13	0.5	7.47	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
50.69	1.0E-07	1.15	0.5	7.32	1	2.9	UnDef	UnDef	100.0	UnDef	UnDef	0.5	UnDef	UnDef	UnDef
51.02	1.0E-07	0.48	1.3	2.55	1	3.9	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
51.34	1.0E-07	0.39	1.4	2.32	1	4.1	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
51.67	5.0E-07	0.39	2.3	3.84	1	5.1	UnDef	UnDef	100.0	UnDef	UnDef	3.1	UnDef	UnDef	UnDef
52.00	5.0E-07	-0.04	9.7	4.45	1	14.6	UnDef	UnDef	100.0	UnDef	UnDef	3.9	UnDef	UnDef	UnDef
52.33	5.0E-07	-0.08	11.2	4.67	1	16.6	UnDef	UnDef	100.0	UnDef	UnDef	2.7	UnDef	UnDef	UnDef
[illegible]66	5.0E-06	-0.12	8.7	3.26	1	13.4	UnDef	UnDef	100.0	UnDef	UnDef	2.4	UnDef	6.1	12.1
[illegible]98	5.0E-06	-0.12	7.9	2.94	4	12.4	49.6	62.0	63.8	UnDef	UnDef	2.9	UnDef	6.8	13.7
53.31	5.0E-06	-0.09	9.1	2.89	4	14.0	55.9	69.9	59.9	UnDef	UnDef	3.5	-0.03	6.1	12.3
53.64	5.0E-05	-0.07	10.4	2.12	6	15.7	62.8	78.5	51.9	30	30.0				

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[redacted]th (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
53.97	5.0E-06	-0.06	10.3	2.90	4	15.6	62.3	77.9	57.0	UnDef	UnDef	3.4	UnDef	7.6	15.2
54.30	5.0E-06	-0.05	11.2	3.13	4	16.8	67.2	84.0	56.3	UnDef	UnDef	3.9	UnDef	8.2	16.4
54.63	5.0E-05	-0.05	9.3	2.25	4	14.4	57.5	71.8	55.5	30	30.0	3.0	-0.02	5.6	11.2
54.95	5.0E-05	-0.02	8.3	2.40	4	13.2	52.6	65.8	59.1	30	30.0	2.5	-0.01	5.2	10.3
55.28	5.0E-06	0.17	11.7	3.39	4	17.6	70.3	87.9	56.6	UnDef	UnDef	4.1	UnDef	8.6	17.2
55.61	5.0E-06	0.04	18.2	3.87	4	26.0	104.2	130.2	49.3	UnDef	UnDef	8.1	UnDef	12.7	25.5
55.94	5.0E-07	-0.26	4.6	4.00	1	8.4	UnDef	UnDef	100.0	UnDef	UnDef	1.2	UnDef	UnDef	UnDef
56.27	5.0E-06	-0.50	2.4	2.61	1	5.5	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
56.59	5.0E-06	-0.45	2.5	1.98	4	5.7	22.9	28.6	91.5	UnDef	UnDef	0.7	UnDef	2.8	5.6
56.92	5.0E-06	-0.46	2.4	2.06	4	5.6	22.4	27.9	93.8	UnDef	UnDef	0.7	UnDef	2.7	5.5
57.25	5.0E-08	-0.31	3.5	5.71	1	7.0	UnDef	UnDef	100.0	UnDef	UnDef	0.9	UnDef	UnDef	UnDef
57.58	5.0E-07	-0.14	7.6	4.33	1	12.5	UnDef	UnDef	100.0	UnDef	UnDef	2.2	UnDef	UnDef	UnDef
57.91	5.0E-04	-0.07	14.0	0.66	7	21.0	60.6	81.6	32.8	32	30.0	1.0	0.02	5.9	12.8
58.23	5.0E-05	-0.16	6.4	0.51	6	11.0	44.0	55.0	46.9	30	30.0	1.8	0.10	4.3	8.6
58.56	5.0E-05	-0.08	3.4	0.32	1	7.0	UnDef	UnDef	100.0	30	30.0	0.9	0.20	UnDef	UnDef
58.89	1.0E-07	0.02	1.9	0.86	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
59.22	1.0E-07	0.17	1.9	1.00	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
59.55	1.0E-07	0.28	2.1	1.00	1	5.3	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
59.87	1.0E-07	0.45	1.9	1.09	1	5.1	UnDef	UnDef	100.0	UnDef	UnDef	0.6	UnDef	UnDef	UnDef
60.20	1.0E-07	0.74	1.6	1.69	4	4.6	18.3	22.9	100.0	UnDef	UnDef	0.6	UnDef	2.2	4.5
60.53	1.0E-07	0.86	1.5	1.54	4	4.6	18.3	22.8	100.0	UnDef	UnDef	0.6	UnDef	2.2	4.5
60.86	1.0E-07	0.57	2.3	1.02	1	5.6	UnDef	UnDef	100.0	UnDef	UnDef	0.7	UnDef	UnDef	UnDef
61.19	5.0E-05	0.32	3.5	0.96	4	7.3	29.2	36.5	69.9	30	30.0	0.9	0.17	2.9	5.7
61.52	5.0E-05	0.31	3.3	0.80	1	6.9	UnDef	UnDef	100.0	30	30.0	0.9	0.18	UnDef	UnDef
61.84	5.0E-05	0.51	2.7	0.97	1	6.2	UnDef	UnDef	100.0	30	30.0	0.8	0.22	UnDef	UnDef
62.17	5.0E-05	0.32	3.5	0.89	1	7.3	UnDef	UnDef	100.0	30	30.0	0.9	0.17	UnDef	UnDef
62.50	5.0E-05	0.15	6.5	0.51	6	11.4	45.8	57.2	46.8	30	30.0	1.8	0.13	4.5	9.0
[redacted]83	5.0E-05	0.05	7.3	1.12	6	12.5	50.0	62.5	52.1	30	30.0	2.1	0.06	4.9	9.8
[redacted]16	5.0E-05	0.09	6.0	0.56	6	10.7	42.9	53.6	49.7	30	30.0	1.6	0.13	4.2	8.4
63.48	5.0E-05	0.18	4.1	0.99	4	8.2	32.7	40.9	66.0	30	30.0	1.1	0.13	3.2	6.4
63.81	5.0E-04	0.06	9.6	0.45	6	15.8	63.2	78.9	37.1	30	30.0	1.0	0.10	5.2	10.3
64.14	5.0E-04	-0.01	14.3	0.48	7	22.3	0.0	22.3	5.0	32	30.0	1.0	0.05	0.0	7.3
64.47	5.0E-04	0.01	9.6	0.86	6	15.8	63.3	79.1	42.9	30	30.0	1.0	0.05	5.2	10.3
64.80	5.0E-06	0.06	5.0	2.35	4	9.5	38.0	47.5	72.7	UnDef	UnDef	1.3	UnDef	4.7	9.3
65.12	5.0E-06	0.03	5.0	2.28	4	9.6	38.2	47.8	72.1	UnDef	UnDef	1.3	UnDef	4.7	9.3
65.45	5.0E-04	0.01	10.9	0.86	6	17.8	71.1	88.8	40.1	30	30.0	1.0	0.03	5.8	11.6
65.78	5.0E-04	0.00	16.9	0.51	7	26.2	39.3	65.6	27.5	32	30.0	1.0	0.03	5.1	13.7
66.11	5.0E-03	-0.01	19.6	0.42	7	30.1	0.0	30.1	5.0	34	32.8	1.0	0.03	0.0	7.4
66.44	5.0E-05	-0.01	10.6	2.44	4	17.5	70.0	87.5	53.6	30	30.0	3.6	-0.04	6.9	13.7
66.76	5.0E-07	0.08	5.4	4.70	1	10.3	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef