prepared for:
Delaware Solid Waste Authority
1128 S. Bradford Street
Dover, Delaware 19904

SUPPLEMENTAL SLOPE STABILITY ANALYSIS for PIGEON POINT LANDFILL

Contract No. S-03-512-NC

Pigeon Point Landfill
New Castle, Delaware

prepared by:
GeoSyntec Consultants
10015 Old Columbia Road
Columbia, Maryland 21046

Project No. ME0414
March 2005

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GeoSyntec Consultants

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Columbia, Maryland 21046 • USA
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23 March 2005

Delaware Solid Waste Authority
1128 South Bradford Street
Dover, Delaware 19903

Attention: Ms. Anne M. Germain, P.E., DEE
Project Manager

Subject: Supplemental Slope Stability Evaluation for Pigeon Point Landfill
Wilmington, Delaware

Dear Ms. Germain:

GeoSyntec Consultants (GeoSyntec) is pleased to present the results of a slope stability re-evaluation conducted for the Pigeon Point Landfill (PPL), which is owned by the Delaware Solid Waste Authority (DSWA). The stability re-evaluation was recommended by GeoSyntec [2005] to validate or deny the assumptions made regarding the liquid levels within the waste and the shear strength of the alluvium under the waste. As part of the re-evaluation, supplemental tasks were proposed by GeoSyntec on 17 February 2005 and accepted subsequently by DSWA on 23 February 2005. The supplemental tasks consisted of the following: (i) performing a supplemental field investigation using Cone Penetration Testing (CPT); (ii) installing leachate observation wells (LOW) and inclinometers at selected locations; (iii) developing site-specific estimates of the strength of foundation soils from the CPT investigation; (v) re-evaluating slope stability; and (vi) making recommendations based on results of the stability analysis. In the next paragraphs, a summary of the work performed is presented and recommendations are provided.

BACKGROUND

In December 2004, GeoSyntec performed an initial slope stability analysis of the PPL [GeoSyntec, 2005] to evaluate the stability in light of an increase in the groundwater levels observed in some piezometers and verify slope stability analysis conducted by Schnabel Engineering Associates (SEA) in 1998 [SEA, 1999]. The stratigraphy and shear strength profiles assumed for the foundation were based upon the results of ten (10) CPTs performed by GeoSyntec in November 2004 [GeoSyntec, 2005] and nine CPTs performed by SEA [1999]. The 2004 and 2005 CPT locations are shown in Figure 1. Of the ten CPTs performed by GeoSyntec, two were located at the top of the landfill and eight were located around the perimeter, near the toe of the

landfill. The liquid levels in the waste were estimated from information obtained from existing LOWs.

Two cross-sections were selected for analysis. The results of the analysis [GeoSyntec, 2005] showed that: (i) for short-term conditions, the calculated factor of safety is 1.1, which is less than the minimum recommended of 1.25; and (ii) for long-term conditions, the calculated factors of safety are adequate (i.e., greater than the minimum recommended of 1.5). Because the results were sensitive to the assumptions made regarding the liquid level in waste and the strength of the alluvium, particularly the strength under the waste, a supplemental field investigation was performed to better define these parameters in the vicinity of the cross-sections analyzed. A summary of the activities performed during the field investigation program is presented below.

FIELD INVESTIGATION

In March 2005, GeoSyntec performed an additional field investigation that consisted of: (i) conducting nine CPTs along sections A-A and B-B (Figure 1); (ii) installing two inclinometers at the toe of slope of sections A-A and B-B (Figure 1); and (iii) installing two LOWs at the crest of the slope A-A and B-B (Figure 1).

The CPT was performed by ConeTec of West Berlin, New Jersey. Three CPTs were at the top of the landfill and the remaining six CPTs were located on the waste side slope. The CPT results from ConeTec are provided in Attachment 1. At each CPT location, soil resistivity was measured with depth to investigate the presence of perched liquid within the waste. In addition, CPT dissipation tests were performed at several depths. The dissipation tests were performed to evaluate the presence of perched liquid at the landfill. The results of the dissipation tests are also presented in Attachment 1.

Two inclinometers were installed at the toe of the waste slope of the two cross-sections considered in GeoSyntec analyses. Inclinometers are 3.34-inch diameter Acrylonitrile Butadiene Styrene (ABS) casing. The inclinometers were monitored twice on 10 March 2005 to provide a baseline for future monitoring. These baseline readings are presented in Attachment 2. The depth of inclinometer IC-05-01 (toe of Section B-B slope) is 54 ft below ground surface (bgs) whereas the depth of inclinometer IC-05-02 (toe of Section A-A slope) is 58 ft-bgs. After placement of the inclinometer casing in the borehole, the annular space between the inclinometer casing and the borehole wall

was filled with bentonite grout. Details of the inclinometer installation and graphs of initial readings for both inclinometers are included in Attachment 2.

Two leachate observation wells (LOWs) were installed at the crest of the waste slope of the two cross-sections considered in GeoSyntec analyses. The wells consisted of a solid 2-in diameter PVC schedule 40, with a 5 ft-long slotted filter. The depth of LOW-05-01 (toe of Section B-B slope) is 32 ft-bgs whereas the depth of LOW-05-02 (toe of Section A-A slope) is 38 ft-bgs. Details of the LOW installation and electronic data are presented in Attachment 3.

Daily field logs and a photo log describing the field activities are presented in Attachments 4 and 5, respectively.

FIELD DATA INTERPRETATION

Shear Strength

Using standard procedures, the CPT results were used to estimate the undrained shear strength profile of the alluvium in the vicinity of cross-sections A-A and B-B. The results of the interpretation are presented in Figures 2B and 3B of Attachment 6. As shown in Figures 4A, 4B, 5A, and 5B in Appendix A of Attachment 6, the shear strength under the PPL increases with increasing distance away from the perimeter. The shear strength increase from an average of approximately 400 pounds per square foot (psf) along the perimeter berm to about 1,400 psf to 1,700 psf near the crest of the slope. These values are consistent with the existing limited information of shear strength for the PPL site at some, but not all locations. These values are higher than the assumed values for the 2004 slope stability analysis [GeoSyntec, 2005].

Liquid Levels

Based on the CPT dissipation tests performed at the site, the liquid levels inside the waste footprint range from 30 ft-msl to 55 ft-msl (Figures 3A and 3B of Attachment 6). The higher levels were observed at the top of landfill whereas lower liquid levels were observed near the landfill toe. These trends were consistent with the CPT dissipation tests, resistivity tests, and measurements of liquid levels in the new LOWs. The liquid

levels measured during this field investigation are in agreement with the assumed values for the 2004 slope analysis [GeoSyntec, 2005].

SLOPE STABILITY ANALYSIS

Using the information described above along with information collected previously [GeoSyntec, 2005], a slope stability analysis was performed on the two cross-sections shown in Figure 1 for undrained (i.e., short-term) conditions and drained (i.e., long-term) conditions. The results of the analysis for undrained conditions for the proposed final grades indicate that, despite the high liquid levels within the waste, the factors of safety for cross-sections A-A and B-B are 2.57 and 2.32, respectively (i.e., significantly higher than 1.25). Similarly, the factors of safety for drained conditions are 2.57 and 2.33 for cross-sections A-A and B-B, respectively. The calculated values of the factor of safety are significantly higher that previously calculated because of the higher shear strength assigned to the alluvium under the waste.

CONCLUSIONS AND RECOMMENDATIONS

Although the liquid levels within the waste were confirmed to be high, the overall stability of the proposed final grades at the PPL is adequate. The reason for this is that the values of shear strength for the alluvium under the waste are relatively high. Two inclinometers were installed to monitor the stability of the PPL. These inclinometers should be measured quarterly for the first year and, if no significant movements are observed, they are recommended to be monitored every six months. In addition, it is recommended that a final cover plan for the site be developed that takes into account the side slopes used in the present analysis.

CLOSING

GeoSyntec appreciates the opportunity to work with you on this project. We will call you in the next few days to discuss this report and the recommendations provided. Should you require additional information, please contact either of the undersigned.

REFERENCES

GeoSyntec Consultants (2005). Slope Stability Analysis of Pigeon Point Landfill, Submitted to the Delaware Solid Waste Authority.

Schnabel Engineering Associates (1999). "Geotechnical Study, Northern Solid Waste Management Center-I. Pigeon Point Disposal Area, Wilmington, Delaware". Submitted to the Delaware Solid Waste Authority, 10 December.

Sincerely,

GeoSyntec Consultants

Carlos A. Lazarte, Ph.D., P.E.
Senior Engineer

R. David Espinoza, Ph.D., P.E.
Associate

Attachments
Attachment 1: ConeTec, Inc. Field Investigation Results
Attachment 2: Inclinometer Installation Details, Electronic Data, and Graphs
Attachment 3: Leachate Observation Well Installation Details
Attachment 4: Daily Field Logs
Attachment 5: Photo Logs
Attachment 6: Re-evaluation of Slope Stability of Existing and Proposed Final Grades

Copies to M. Houlihan, GeoSyntec
S. Opdyke, GenSyntec
R. Roddy, DSWA

PRESENTATION OF IN SITU TESTING PROGRAM RESULTS

Pigeon Point Landfill
Wilmington, Delaware

March 3, 4, & 7, 2005

Prepared for:

GeoSyntec Consultants
Columbia, Maryland

Prepared by:

ConeTec Inc.
West Berlin, NJ

March 9, 2005

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APPENDIX B CPTSumm Data
APPENDIX C Dissipation Tests
APPENDIX D Data Disk

1.0 INTRODUCTION

This report presents the results of a cone penetrometer testing (CPT) program carried out at your site located at the Pigeon Point Landfill in Wilmington, Delaware. The program was completed for GeoSyntec Consultants of Columbia, Maryland. The CPT program took place over a three day period from March 3rd, to March 7th, 2005 when a total of 11 soundings were completed at 9 different sounding locations. Many dissipation tests were taken during the program. Resistivity data was also collected at each of the locations.

CPT sounding locations were selected and numbered under the direction and supervision of GeoSyntec Consultants personnel.

2.0 FIELD EQUIPMENT AND PROCEDURES

2.1 CONE PENETRATION TESTING

The cone penetrometer tests were carried out using an integrated electronic piezo cone manufactured by ConeTec in Vancouver, Canada. The piezo cone used was a compression model cone penetrometer with a 15 cm^2 tip and a 225 cm^2 friction sleeve. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85. The piezo cone dimensions and the operating procedure were in accordance with ASTM Standard D-3441. A diagram of the cone penetrometer used for this project is shown as Figure 1.

Pore pressure filter elements, made of porous plastic, were saturated under a vacuum using glycerin as the saturating fluid. The pore pressure element was six millimeters thick and was located immediately behind the tip (the U_2 location) for all soundings.

The cone was advanced using ConeTec's 20-ton track mounted rig. The following data were recorded onto magnetic media every five centimeters (approximately every two inches) as the cone was advanced into the ground:

- Tip Resistance (Qc)
- Sleeve Friction (Fs)
- Dynamic Pore Pressure (Ul)

The field data recorded is included on the attached diskette (appendix D).

The principal objective of this project was to profile the soils for a slope stability analysis and to determine where there might be perched water up in the waste material.

Before each sounding a complete set of analog baseline readings are taken with a multi-meter and compared with the digitized value on the computer screen. This provides a check on the analog to digital conversion board.

Evaluation of the analog baselines is key to consistent readings. The baseline data should be stable and should not wander excessively during the course of a sounding. Baseline data can be used to apply corrections to the cone data where necessary. For this project, the baseline shift from sounding to sounding was small, typically less than 0.1% of full scale, and no data corrections were applied.

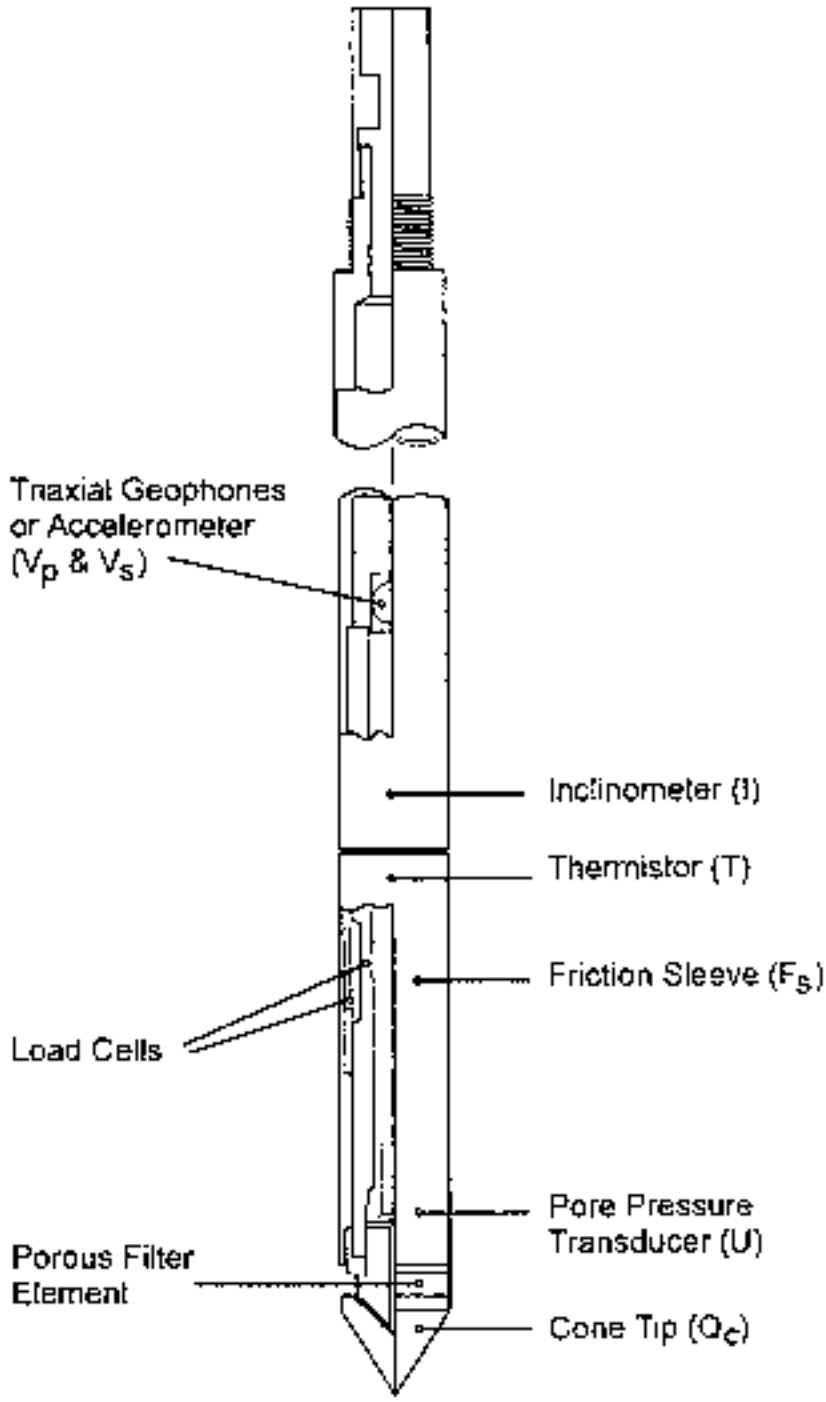


FIGURE 1 - TYPICAL CONE PENETROMETER

2.2 PORE PRESSURE DISSIPATION TESTS

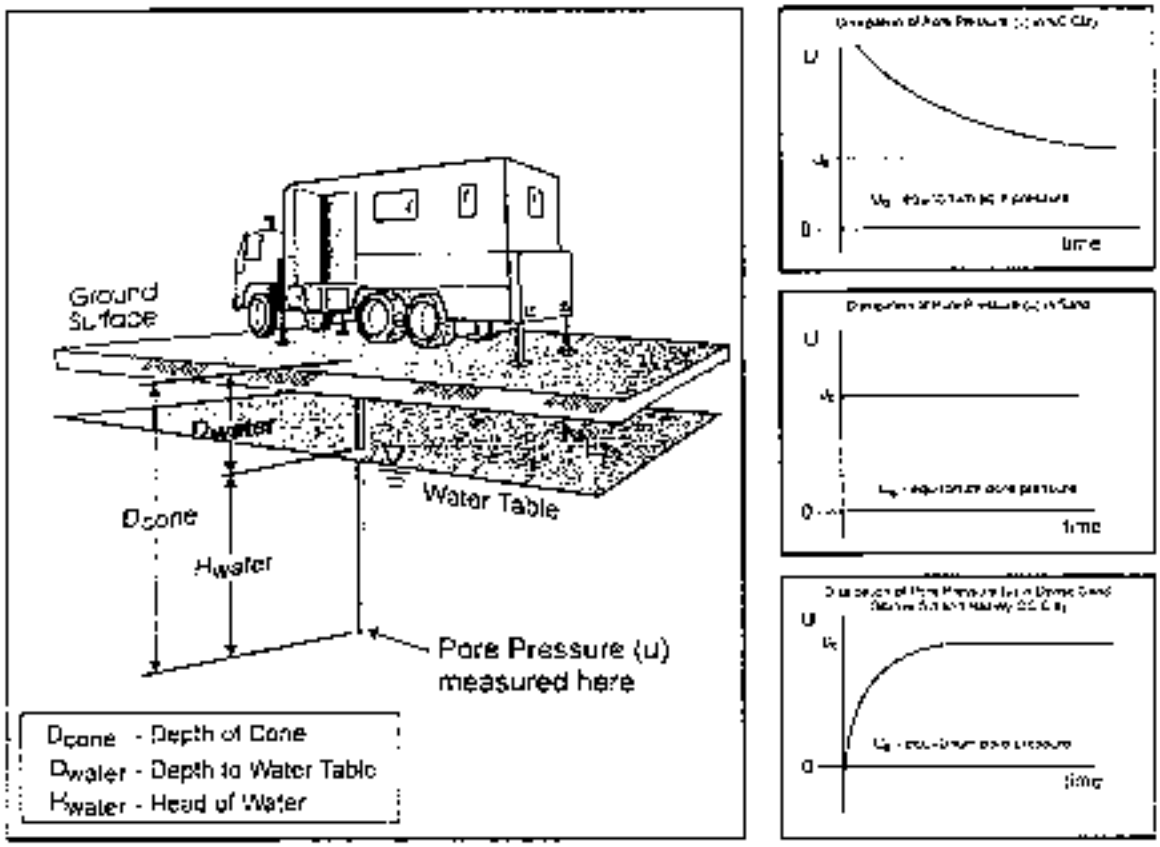
When cone penetration is stopped, the piezo cone essentially becomes a piezometer. While stopped, pore water pressures are automatically recorded at five-second intervals and the readings are stored in a dissipation file (.ppd). Dissipation data can then be plotted onto a dissipation curve consisting of pore water pressure (U) verses time (t). The shapes of dissipation curves are very useful in evaluating soil type, drainage and in situ static water level.

A flat curve that stabilizes quickly (i.e. less than 30 seconds) is typical of a free draining sand. In this case, the final measured pore water pressure is the static in situ water pressure.

Soils that generate excess dynamic pore water pressure during penetration will dissipate this excess pressure when penetration stops. The shape of the dissipation curve and the time of dissipation can be used to estimate C_h, the coefficient of consolidation that can in turn be used to calculate K_h, the horizontal permeability.

Figure 3 shows some idealized shapes of various pore water pressure dissipation curves. The reader is referred Robertson et. al., 1990 to reference dissipation test data analytical techniques.

Estimation of Ground Water Table from CPT Dissipation Tests



Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

where $H_{water} = U_e$ (depth units)

Useful Conversion Factors: 1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

FIGURE 3 - TYPICAL DISSIPATION TESTS

3.0 CONE PENETRATION TEST DATA AND INTERPRETATION

3.1 ANALYSIS OF PIEZOCONE DATA - GENERAL

A total of 11 CPT soundings involving 944.85 feet of testing, were completed.

The interpretation of cone data is based on the relationship between cone bearing, Qc, sleeve friction, Fs, and penetration pore water pressure, U. The friction ratio, Rf , (sleeve friction divided by cone bearing) is a calculated parameter which is used to infer soil behavior type. Generally, saturated cohesive soils have low tip resistance, high friction ratios and generate large excess pore water pressures. Cohesionless soils have higher tip resistances, lower friction ratios and do not generate significant excess pore water pressure.

The interpretation of soils encountered on this project was carried out using correlations developed by Robertson et al., 1986. It should be noted that it is not always possible to clearly identify a soil type based on Qc, Fs and Ut. Occasionally soils will fall within different soil categories on the classification charts. In these situations, experience and judgment and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type. Computer tabulations of the interpreted soil types along with certain other geotechnical parameters for each cone hole is presented in Appendix B.

Each of the parameters measured in the sounding is discussed briefly below. A detailed explanation of CPTU testing and interpretation of the results can be found in "Guidelines for Geotechnical Design Using CPT and CPTU" by P. K. Robertson and R. G. Campanella, listed in the references.

TIP RESISTANCE (Q_c): The resistance to penetration, measured at the cone tip, provides an accurate profile of subsurface strata. The recorded tip resistance is a composite of the penetration resistance of the soils located five to ten cone diameters (7 to 14 inches) in front of and behind the tip. The actual resistance "sensed" by the tip depends on the soil properties and on the relative stiffness of the layers encountered. Tip resistance is often corrected for pore pressure effects when testing in soft saturated cohesive soils.

For this project the correction was made and the tip resistance shown, Q_t is the corrected tip resistance.

The correction used is: $Q_t = Q_c + (1\text{-}a)U$

Where:
Q_t = corrected tip resistance
Q_c = measured tip resistance
a = net area ratio for cone (0.85 for this project)
U = dynamic pore water pressure measured behind tip

3.4 CPTSUMM DATA PROCESSING

The electronic data files were processed using the program CPTSUMM. CPTSUMM is a program developed by ConeTec to calculate common engineering parameters from CPT data. The processed data files are attached in Appendix B. The files are also included on the data disk. The calculations used are summarized in the table at the front of the Appendix. Each calculation is derived according to the referenced article. The water table used can be found in the header of each CPTSUMM file. The water tables used were derived from the dissipation data.

3.5 DATA DISK

One data disk is included in Appendix D. The disk includes all of the CPT, dynamic and static pore water pressure, and CPTSUMM data.

4.0 REFERENCES

Robertson, P.K. and Campanella, R.G., 1989, "Guidelines for Geotechnical Design using CPT and CPTU", Soil Mechanics Series No. 120, The University of British Columbia.

Robertson, P.K., Sully, J., Woeller, D.G., Lunne, T., Powell, J.M., and Gillespie, D.J., 1990, "Guidelines for Interpretation of CPTU Test Data for determination of consolidation and permeability Parameters for Soils, Report prepared by ConeTec Investigations Ltd. for Energy Mines and Resources, Contract No. 23420-9-m644/01-OSC (copies available from ConeTec, Inc.).

Appendix A

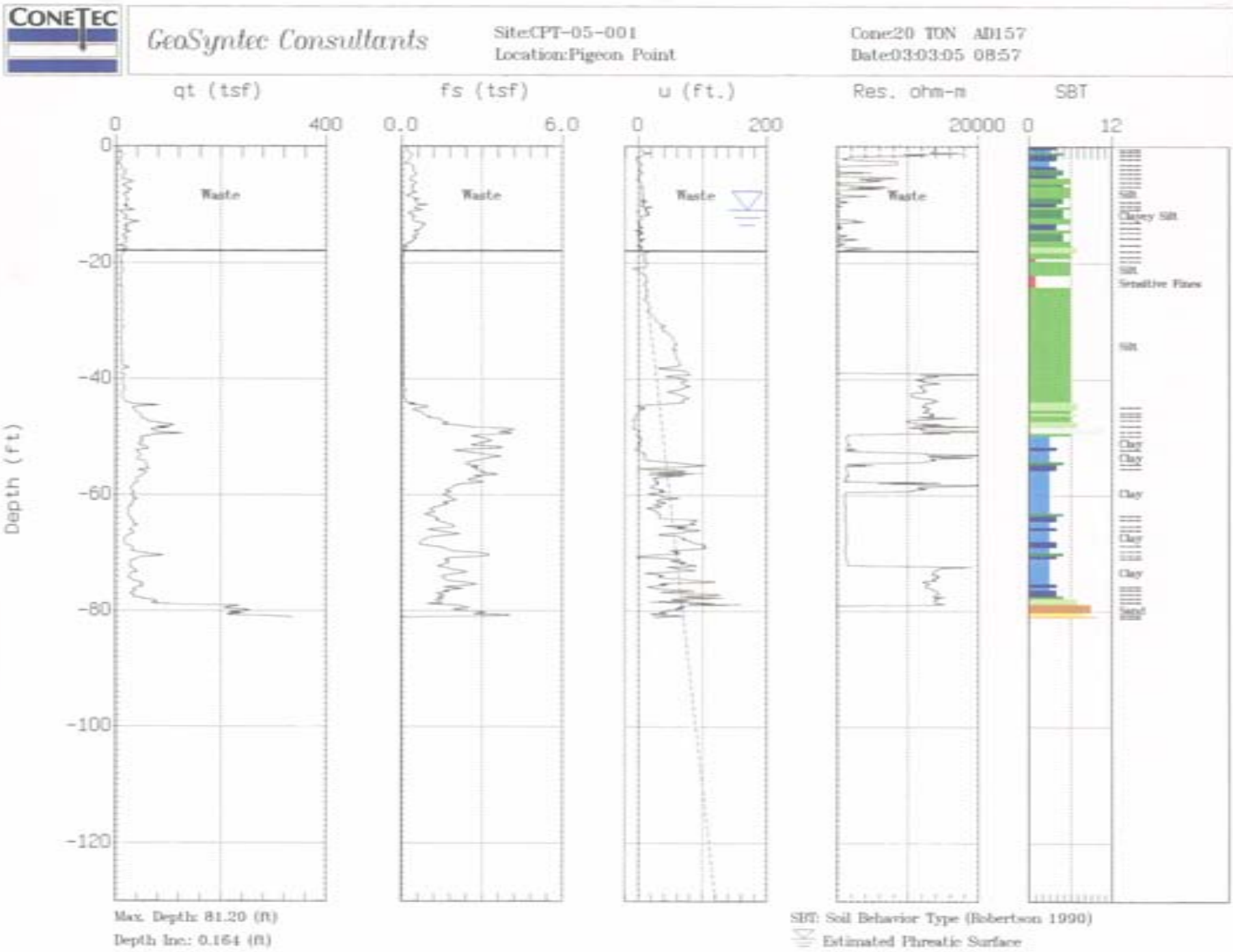
CONE

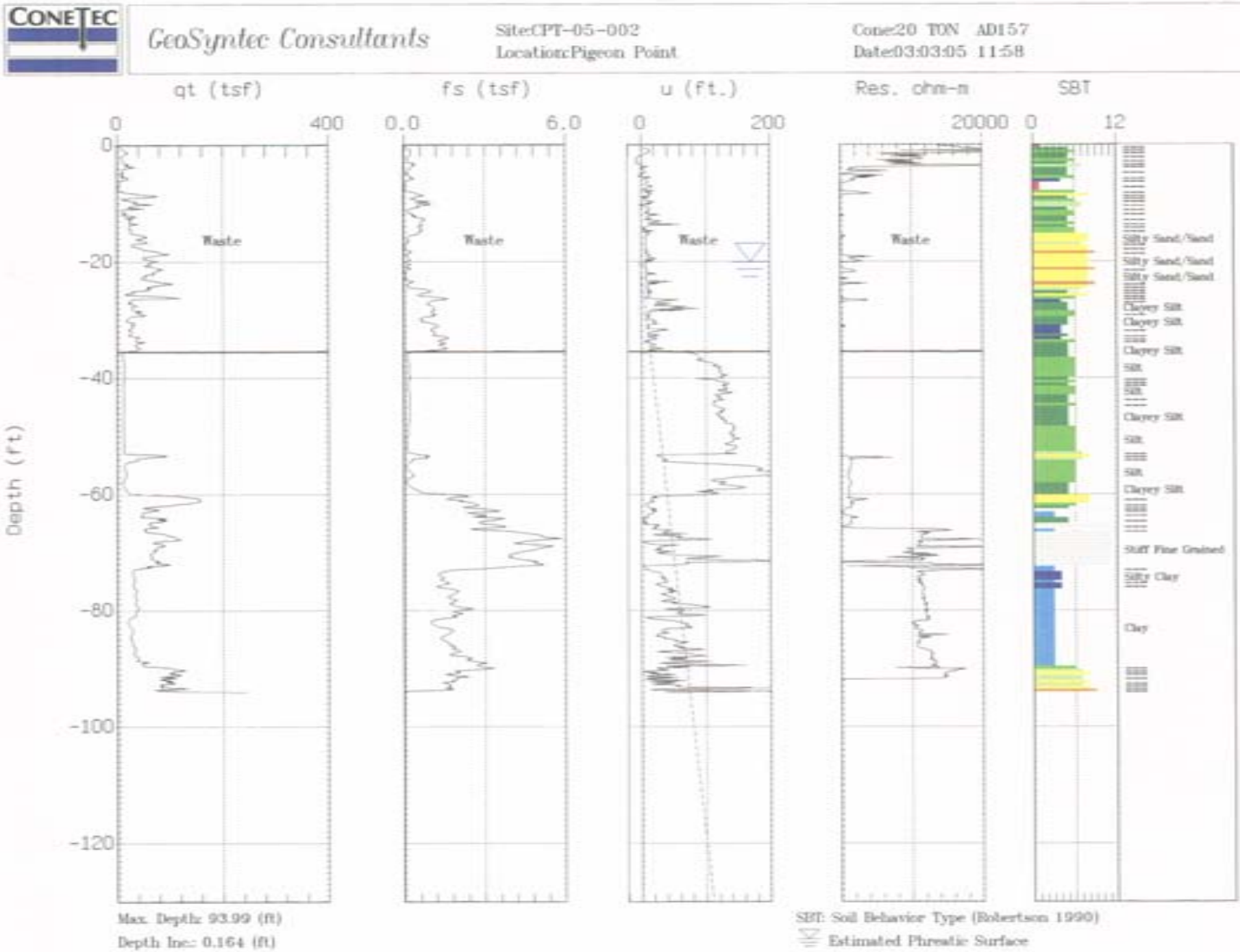
TABLE 1 - SUMMARY OF CPTU SOUNDINGS

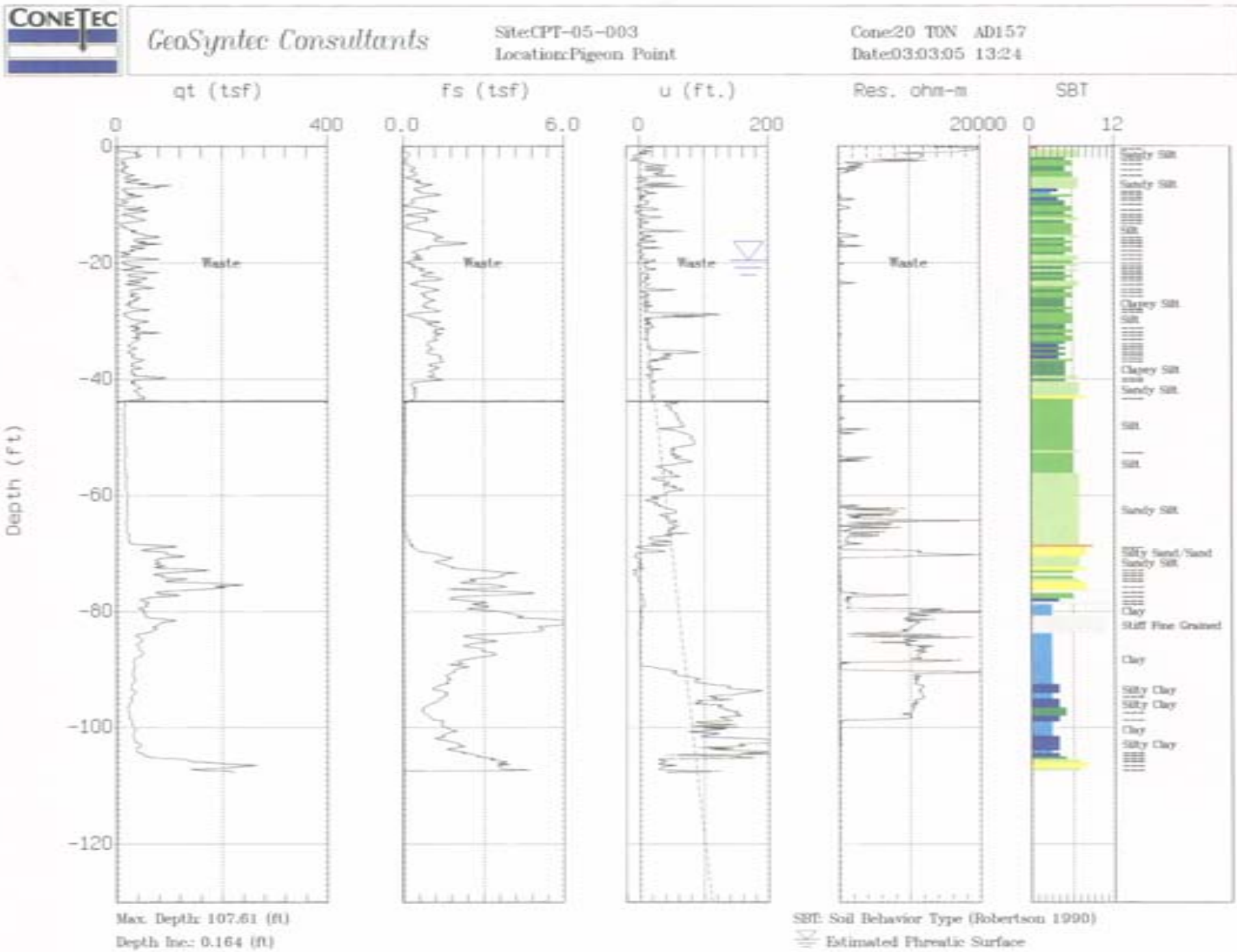
Job No.: 05-721
Location: Pigeon Point Landfill - Wilmington, Delaware
Client: GeoSyntec Consultants
Date: March 3, 4, 7, 2005

Date	CPTU Sounding	File Name	Total Depth (ft)	Dissipation Depth (ft)	Estimated Water Table	Estimated Thickness of Waste	Comments
March 3, 2005	CPT-05-001	721cp01.cor	81.20	20.67	falling	18.00	
				81.20	25.49		
March 3, 2005	CPT-05-002	721cp02.cor	93.99	20.67	13.29	35.50	
				30.51	20.20		
March 3, 2005	CPT-05-003	721cp03.cor	107.61	30.02	19.69	43.75	
March 7, 2005	CPT-05-004	721cp04.cor	17.22	12.30	9.37	17.22	refusal in waste
March 7, 2005	CPT-05-04A	721cp04a.cor	93.01	19.69	13.02	20.00	
March 7, 2005	CPT-05-005	721cp05.cor	95.14	7.55	7.27	31.50	
				36.09	falling		
March 4, 2005	CPT-05-006	721cp06.cor	122.21	62.01	49.65	50.00	
March 4, 2005	CPT-05-007	721cp07.cor	116.63	45.28	26.53	50.50	
March 4, 2005	CPT-05-008	721cp08.cor	115.81	27.07	16.79	61.00	
				33.63	19.55		
				51.84	27.79		
March 7, 2005	CPT-05-0012	721cp12.cor	3.15			1.15	refusal in waste
March 7, 2005	CPT-05-0012	721cp12a.cor	100.88	10.50	9.14	58.00	
				20.34	15.13		
				35.10	19.06		
Totals:	11 soundings	13 files	944.85				

Non-normalized CPT plots


CONETEC
GeoSyntec Consultants
Site:CPT-05-001
Location:Pigeon Point
Cone:20 TON AD157
Date:03:03:05 08:57
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBT
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Clayey Silt
Silt
Sensitive Fines
Silt
Clay
Clay
Clay
Sand
Max. Depth: 81.20 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSymtec Consultants
Site:CPT-05-002
Location:Pigeon Point
Cone:20 TON AD157
Date:03:03:05 11:58
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBT
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Silty Sand/Sand
Silty Sand/Sand
Silty Sand/Sand
Clayey Silt
Clayey Silt
Clayey Silt
Silt
Silt
Clayey Silt
Silt
Silt
Clayey Silt
Stiff Fine Grained
Silty Clay
Clay
Max. Depth: 93.99 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface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GeoSyntec Consultants
Site:CPT-05-003
Location:Pigeon Point
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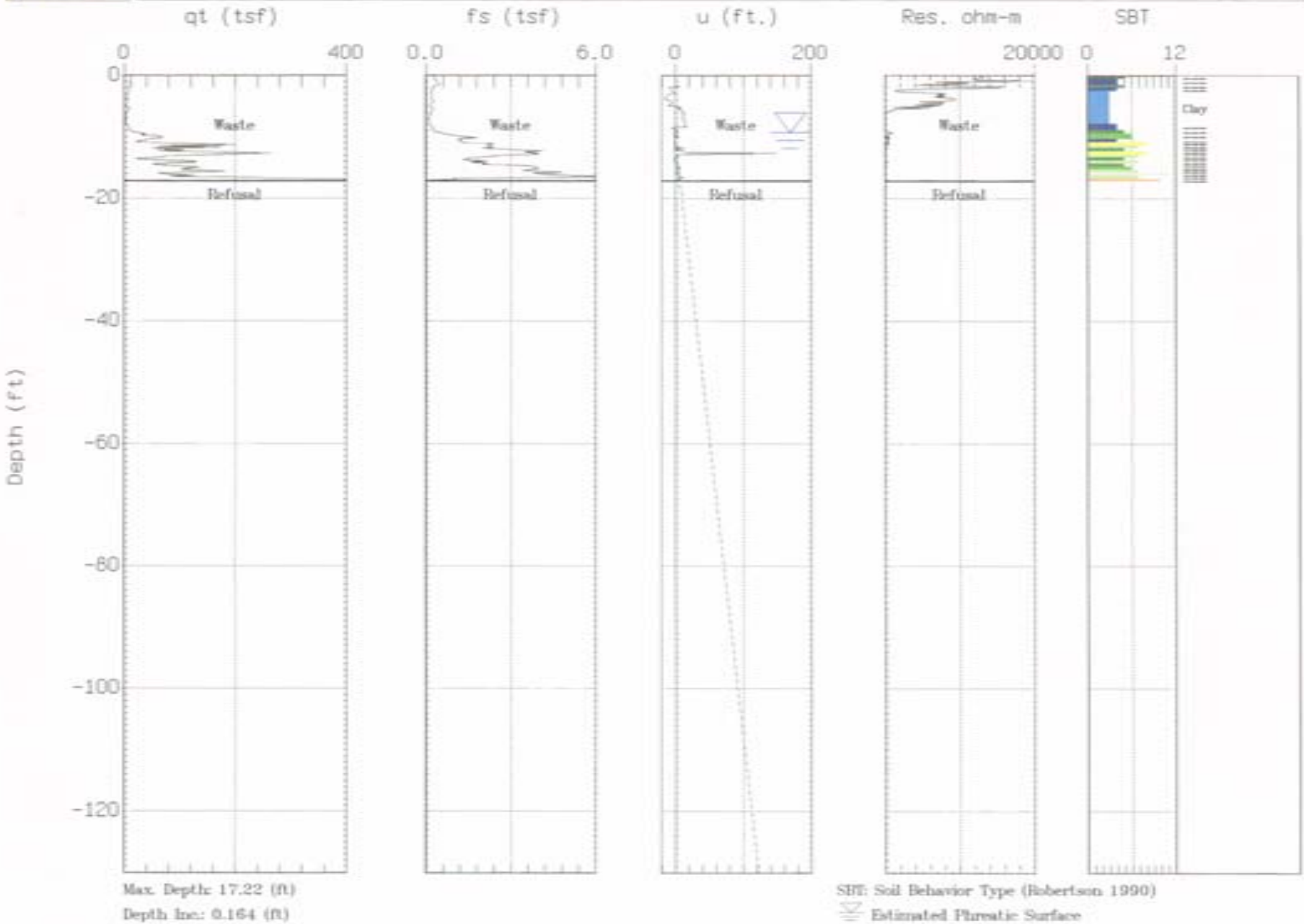
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBT
Depth (ft)
Waste
Clayey Silt
Sandy Silt
Silty Sand/Sand
Stiff Fine Grained
Clay
Silty Clay
Max. Depth: 107.61 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

CONETEC

GeoSyntec Consultants

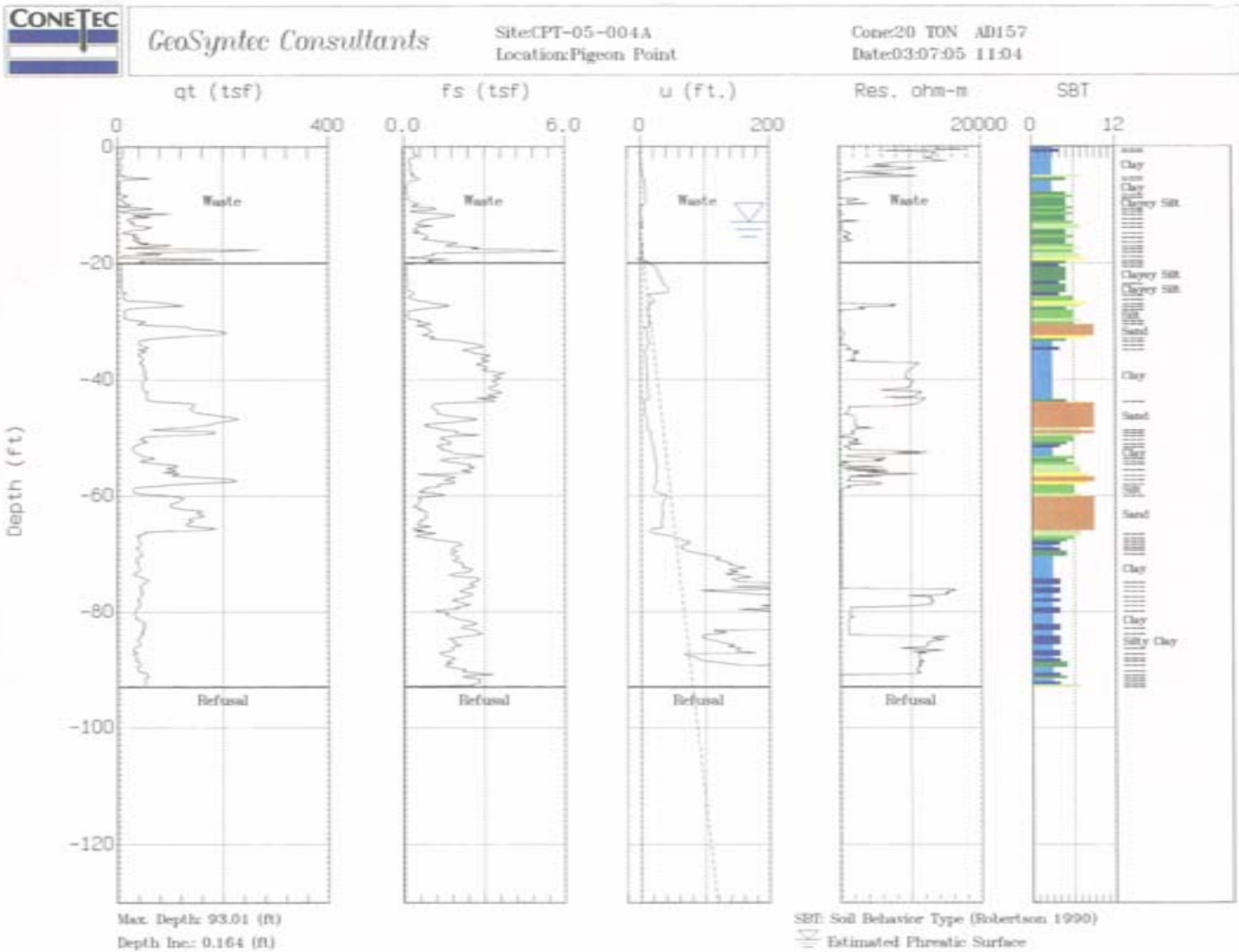
Site:CPT-05-004
Location:Pigeon Point

Cone:20 TON AD157
Date:03/07/05 10:24



Max. Depth: 17.22 (ft)
Depth Inc: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-004A
Location:Pigeon Point
Cone:20 TON AD157
Date:03:07:05 11:04
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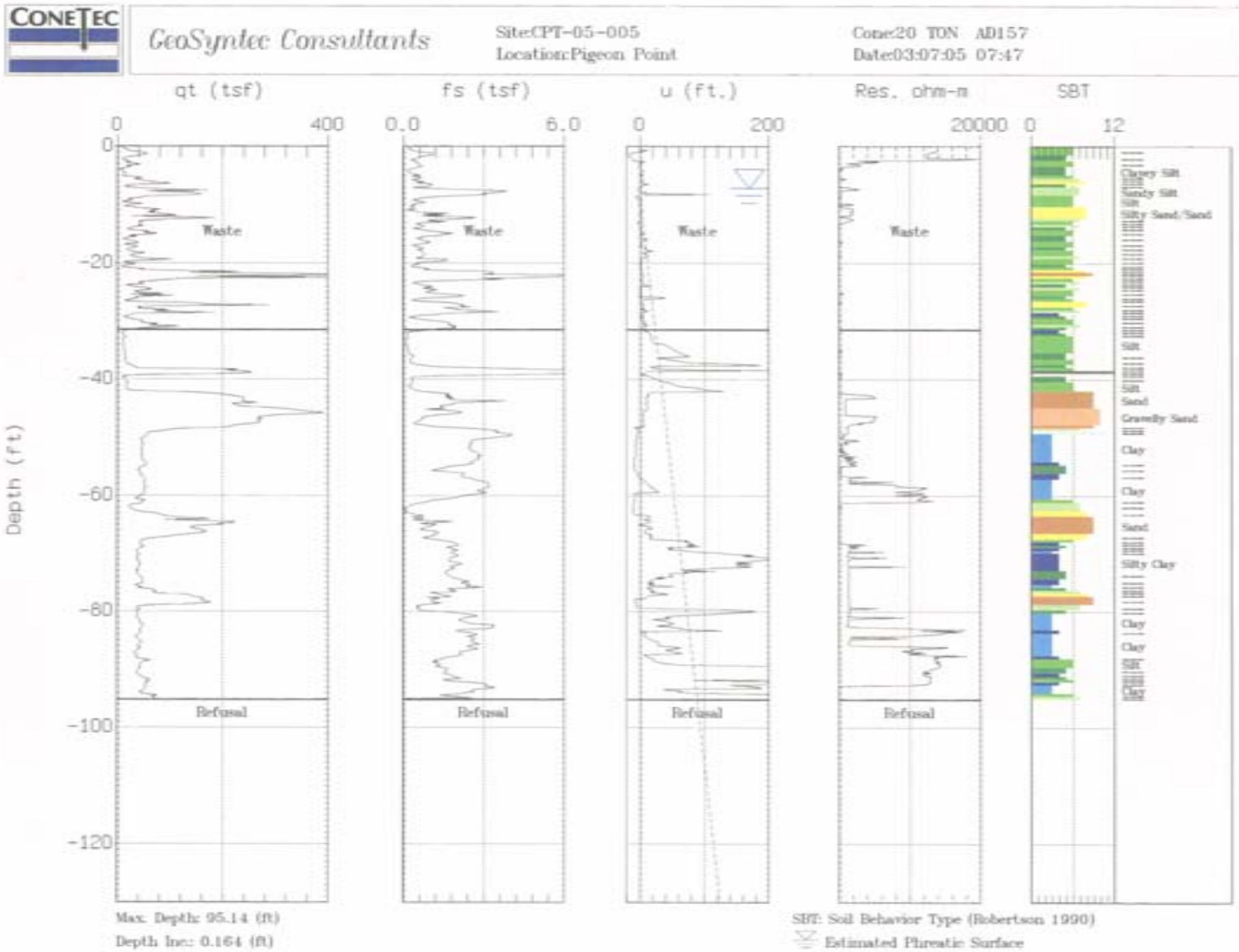
fs (tsf)
u (ft.)
Res. ohm-m
SBT
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Refusal
Clay
Clayey Silt
Silt
Sand
Silty Clay
Max. Depth: 93.01 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-005
Location:Pigeon Point
Cone:20 TON AD157
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fs (tsf)
u (ft.)
Res. ohm-m
SBT
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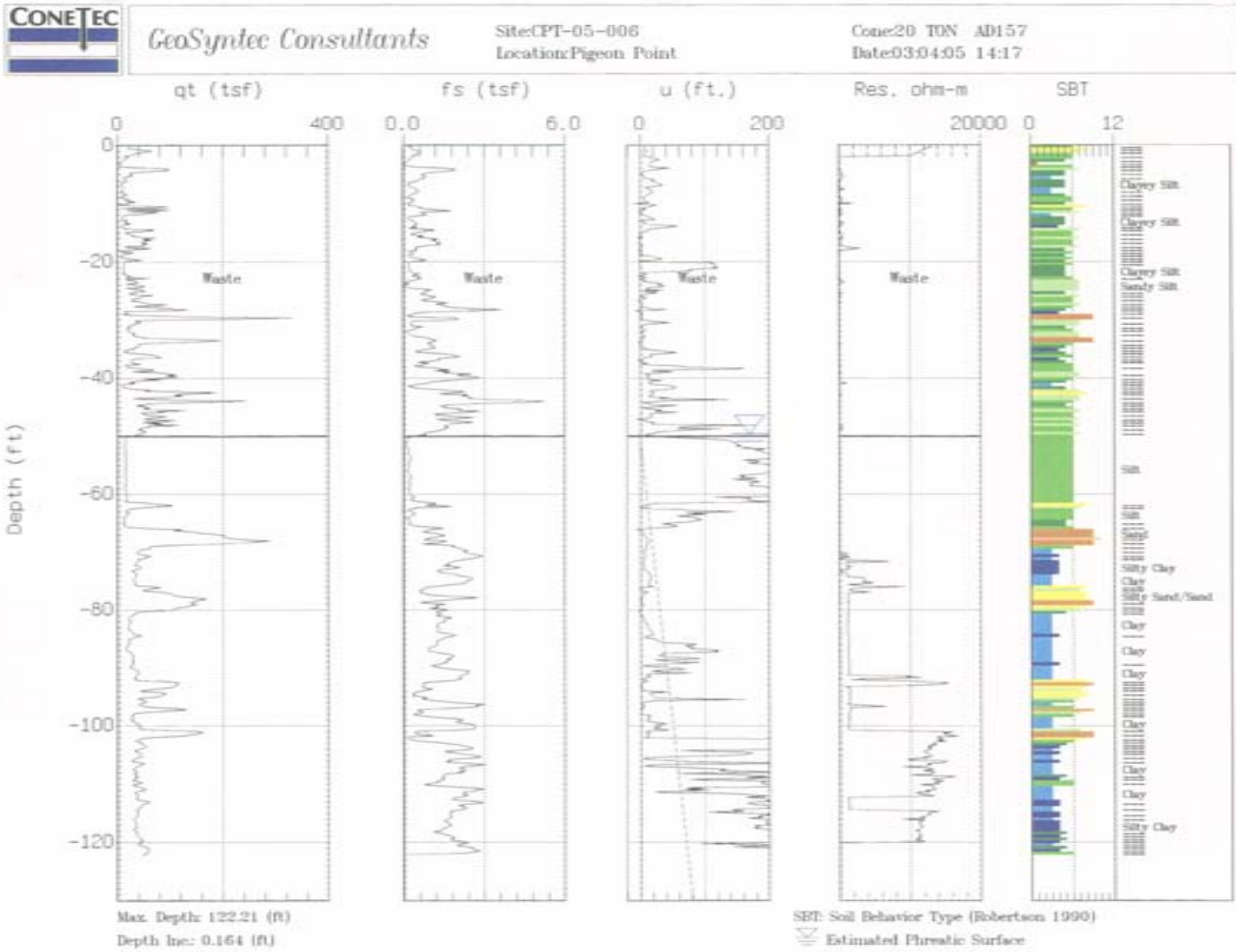
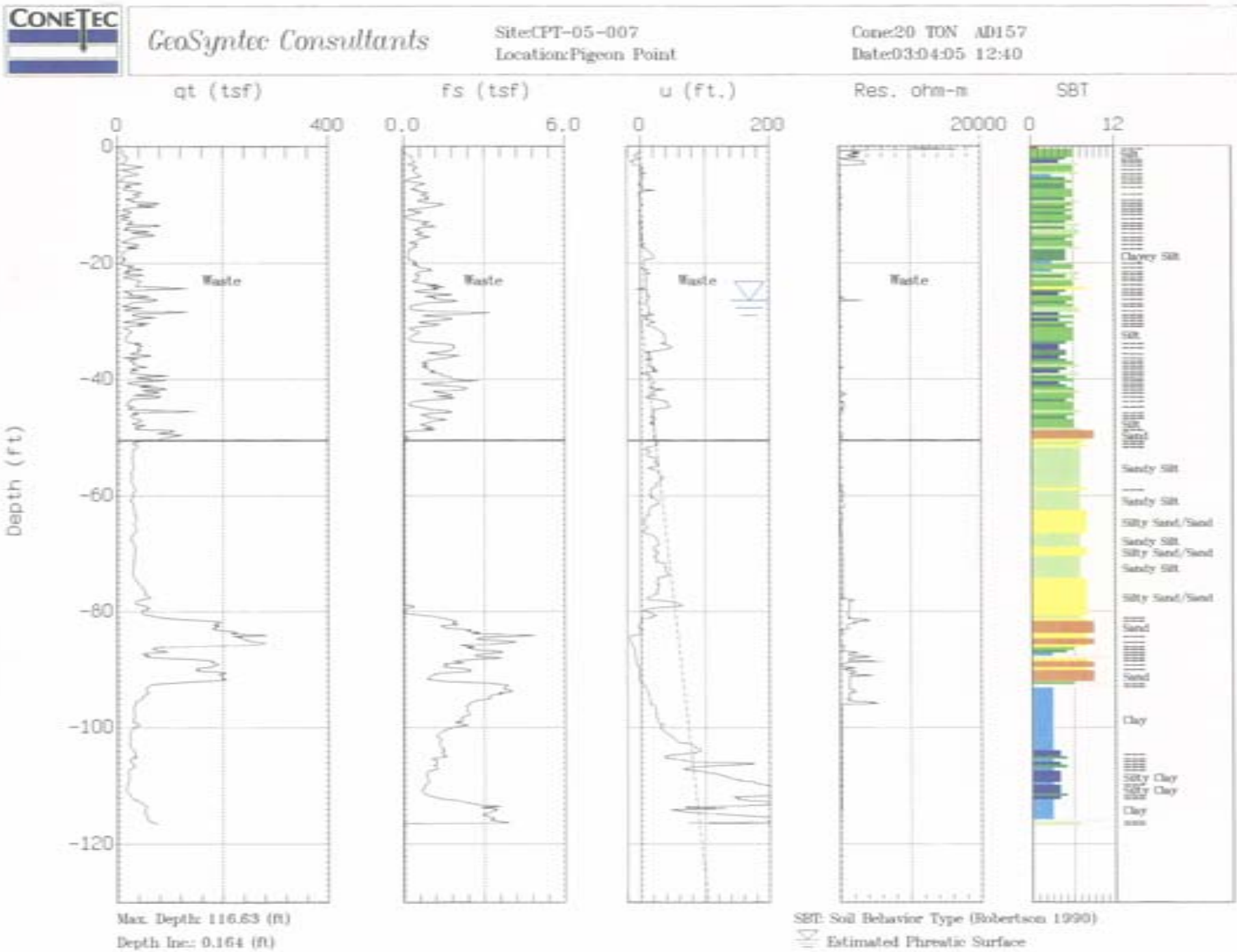
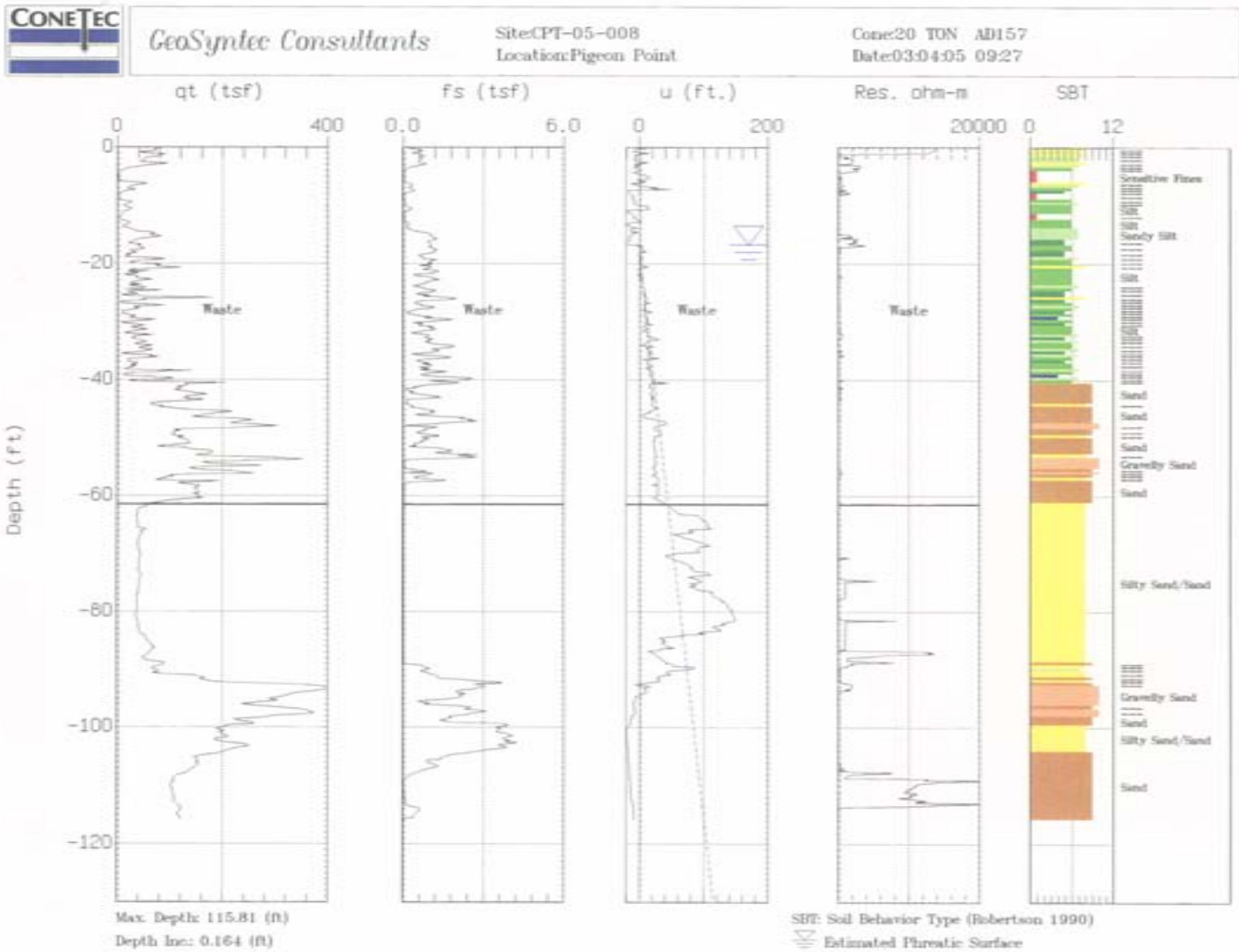
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Refusal
Clayey Silt
Sandy Silt
Silt
Silty Sand/Sand
Silt
Sand
Gravelly Sand
Clay
Clay
Sand
Silty Clay
Clay
Clay
Silt
Clay
Max. Depth: 95.14 (ft)
Depth Inc:: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-006
Location:Pigeon Point
Cone:20 TON AD157
Date:03:04:05 14:17
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBT
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Clayey Silt
Clayey Silt
Clayey Silt
Sandy Silt
Silt
Silt
Silty Clay
Clay
Silty Sand/Sand
Clay
Clay
Clay
Clay
Clay
Clay
Silty Clay
Max. Depth: 122.21 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-007
Location:Pigeon Point
Cone:20 TON AD157
Date:03:04:05 12:40
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBT
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Clayey Silt
Silt
Sandy Silt
Sandy Silt
Silty Sand/Sand
Sandy Silt
Silty Sand/Sand
Sandy Silt
Silty Sand/Sand
Sand
Sand
Clay
Silty Clay
Silty Clay
Clay
Max. Depth: 116.63 (ft)
Depth Inc:: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

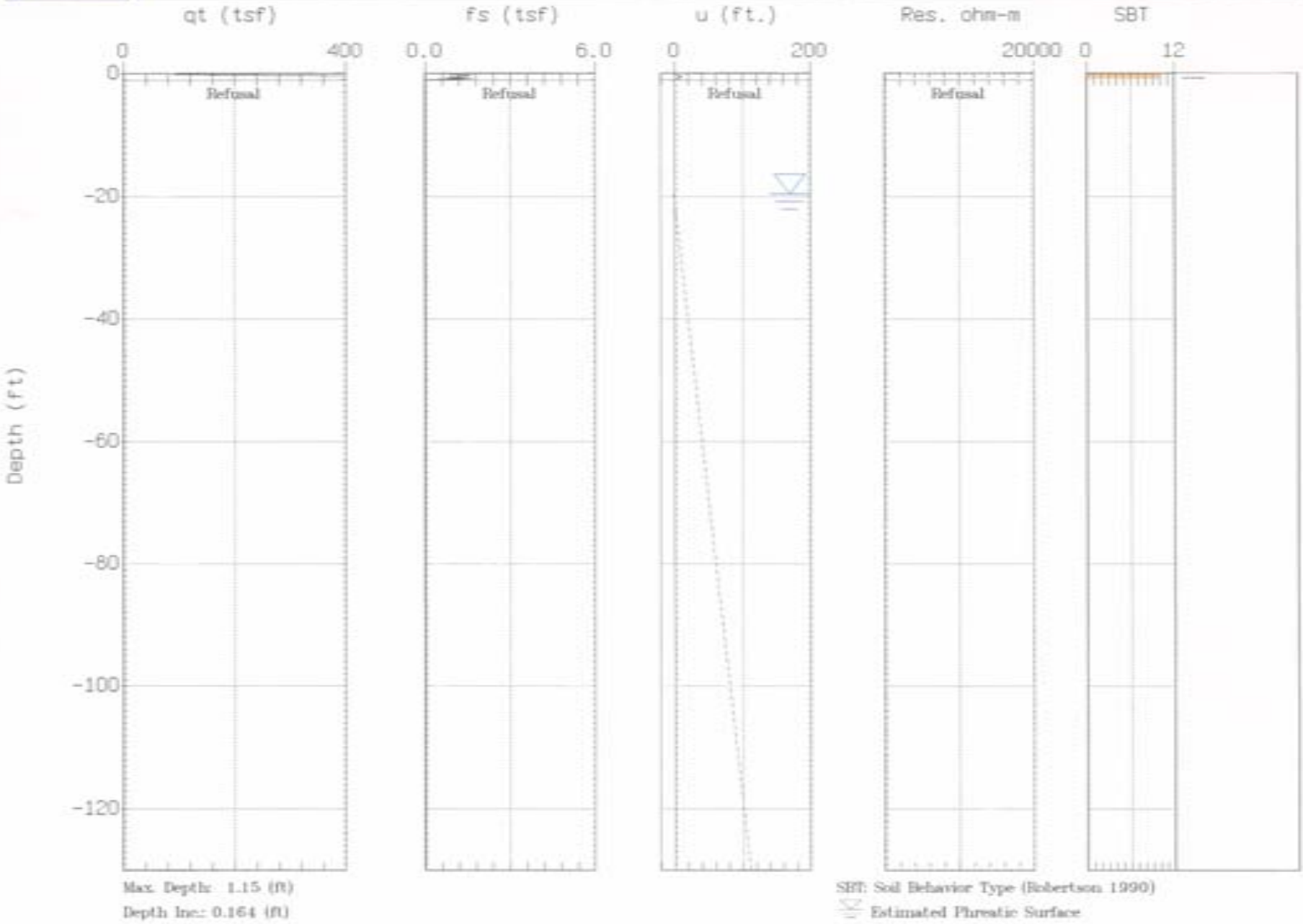

CONETEC
GeoSyntec Consultants
Site:CPT-05-008
Location:Pigeon Point
Cone:20 TON AD157
Date:03:04:05 09:27
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBT
Depth (ft)
Waste
Sensitive Fines
Silty Sand
Sand
Gravelly Sand
Silty Sand/Sand
Max. Depth: 115.81 (ft)
Depth Inc: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

CONETEC

GeoSyntec Consultants

Site:CPT-05-0012
Location:Pigeon Point

Cone: 20 TON A AD157
Date:03:07:05 13:30



Max. Depth: 1.15 (ft)
Depth Inc:: 0.164 (ft)

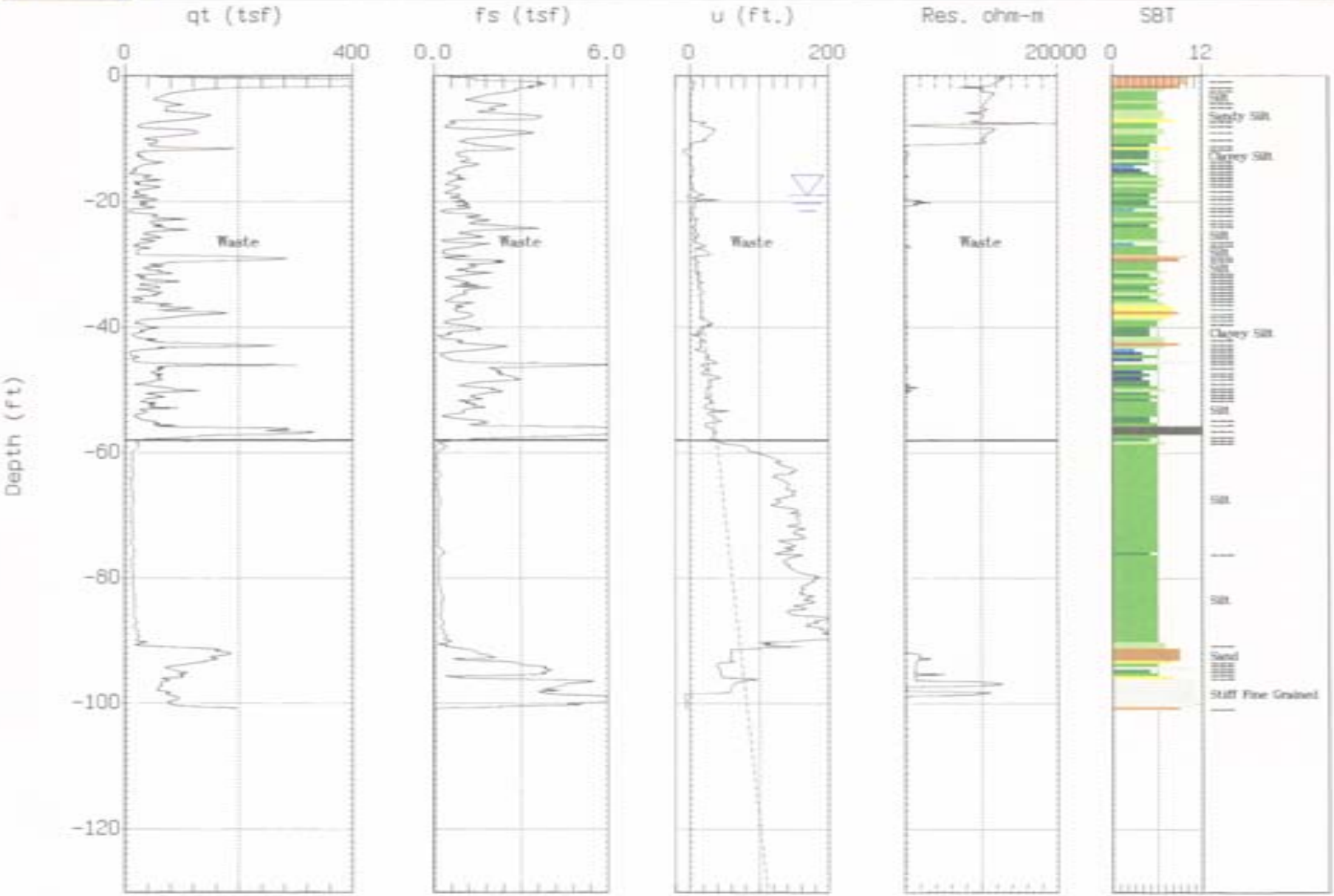
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

CONETEC

GeoSyntec Consultants

Site:CPT-05-0012
Location:Pigeon Point

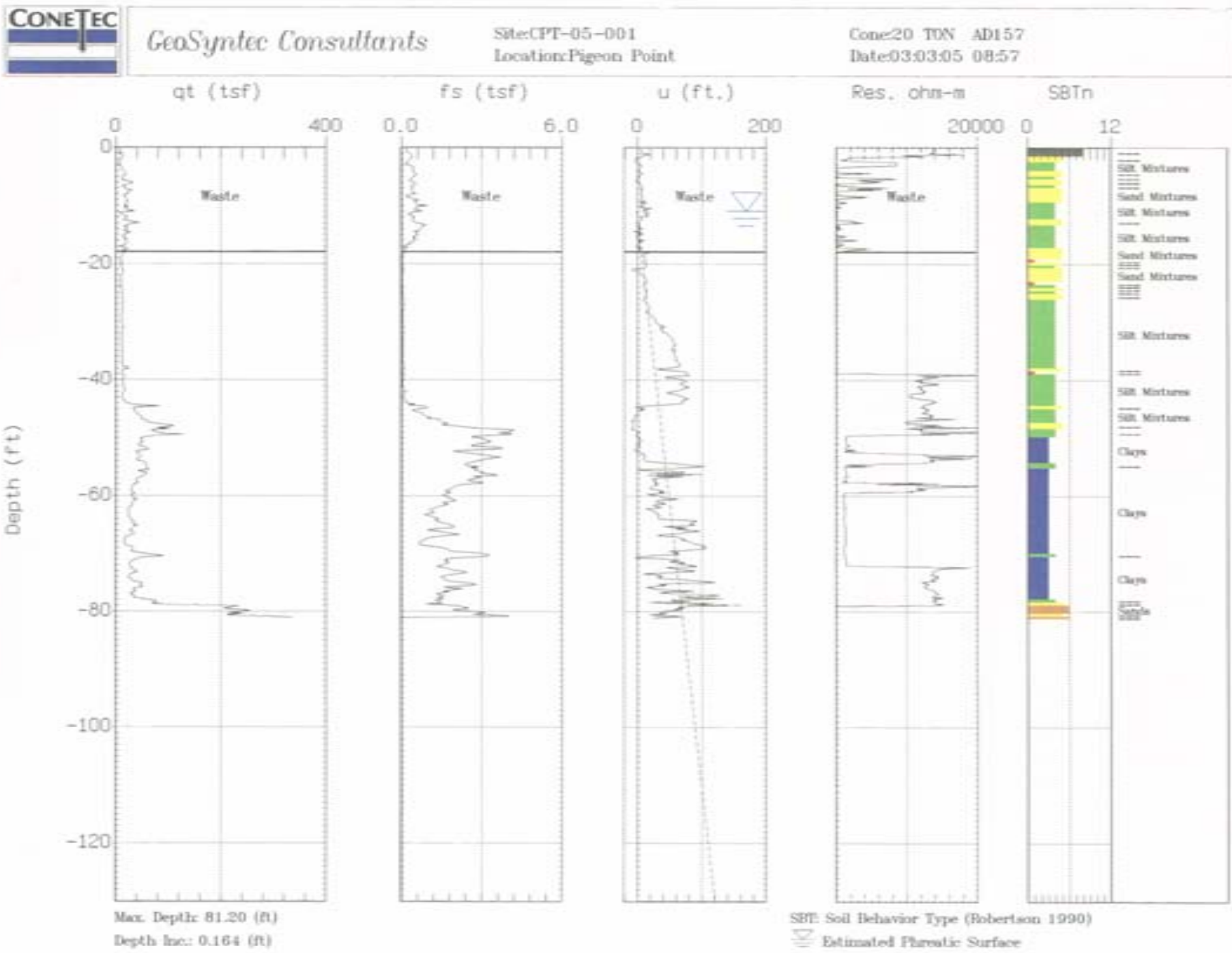
Cone:20 TON AD157
Date:03:07:05 13:41



Max. Depth: 100.88 (ft)
Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

Normalized CPT plots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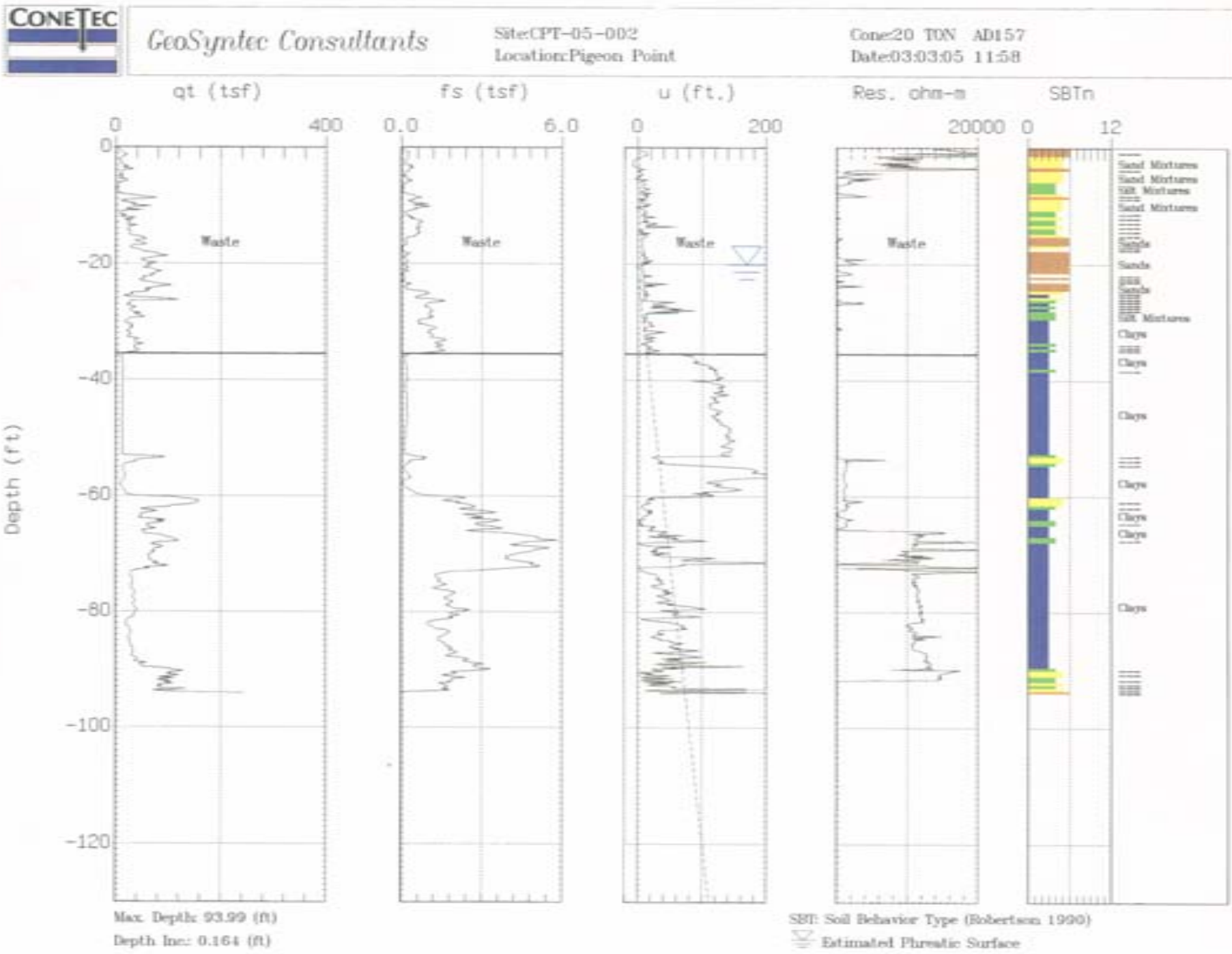
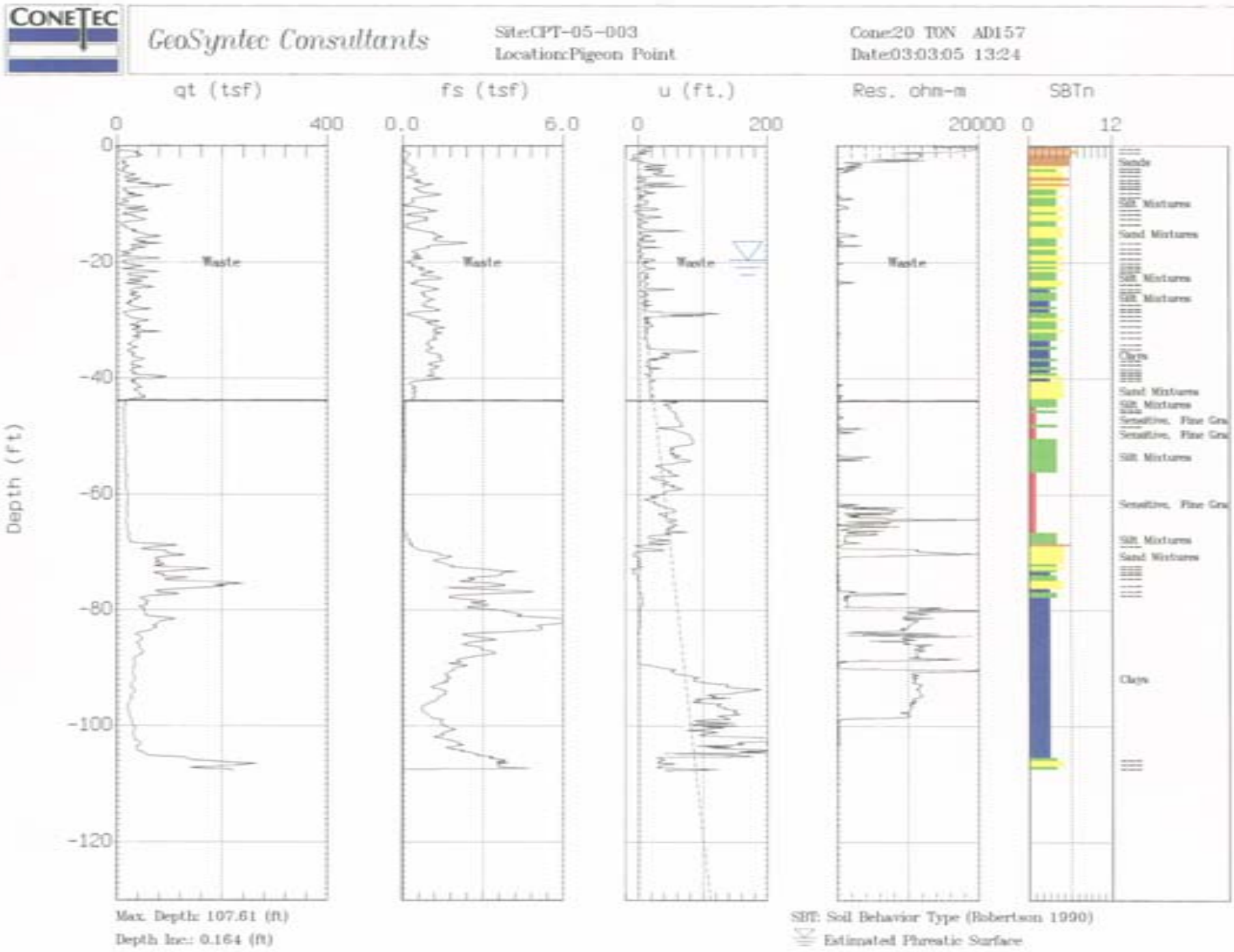
Site:CPT-05-001
Location:Pigeon Point
Cone:20 TON AD157
Date:03:03:05 08:57
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Silt Mixtures
Sand Mixtures
Clays
Max. Depth: 81.20 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-002
Location:Pigeon Point
Cone:20 TON AD157
Date:03:03:05 11:58
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Sand Mixtures
Sand Mixtures
Silt Mixtures
Sand Mixtures
Sands
Sands
Silt Mixtures
Clays
Clays
Clays
Clays
Clays
Clays
Clays
Max. Depth: 93.99 (ft)
Depth Inc: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

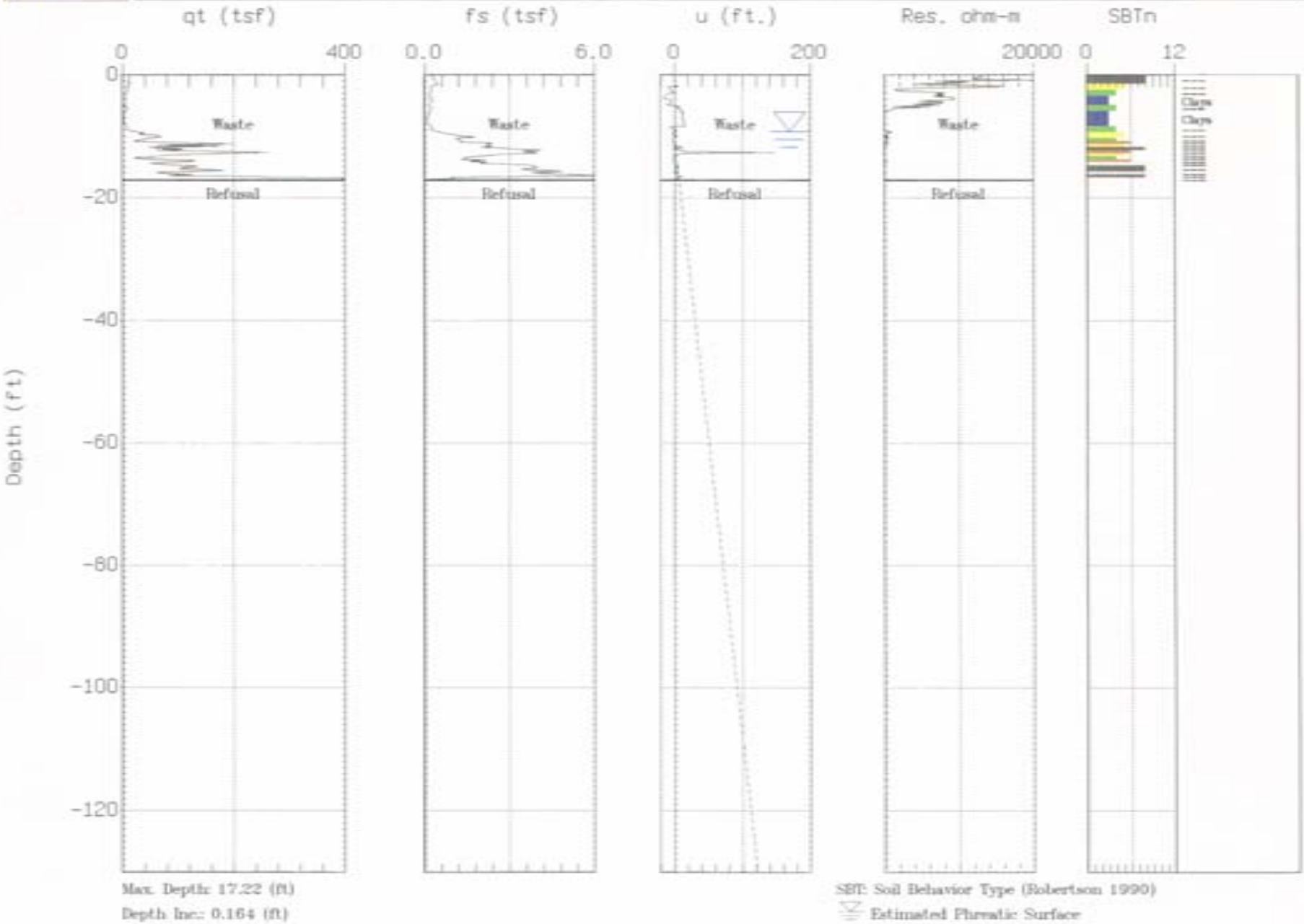

CONETEC
GeoSyntec Consultants
Site:CPT-05-003
Location:Pigeon Point
Cone:20 TON AD157
Date:03:03:05 13:24
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Sands
Silt Mixtures
Sand Mixtures
Silt Mixtures
Silt Mixtures
Clays
Sand Mixtures
Silt Mixtures
Sensitive, Fine Grai
Sensitive, Fine Grai
Silt Mixtures
Sensitive, Fine Grai
Silt Mixtures
Sand Mixtures
Clays
Max. Depth: 107.61 (ft)
Depth Inc:: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

CONETEC

GeoSyntec Consultants

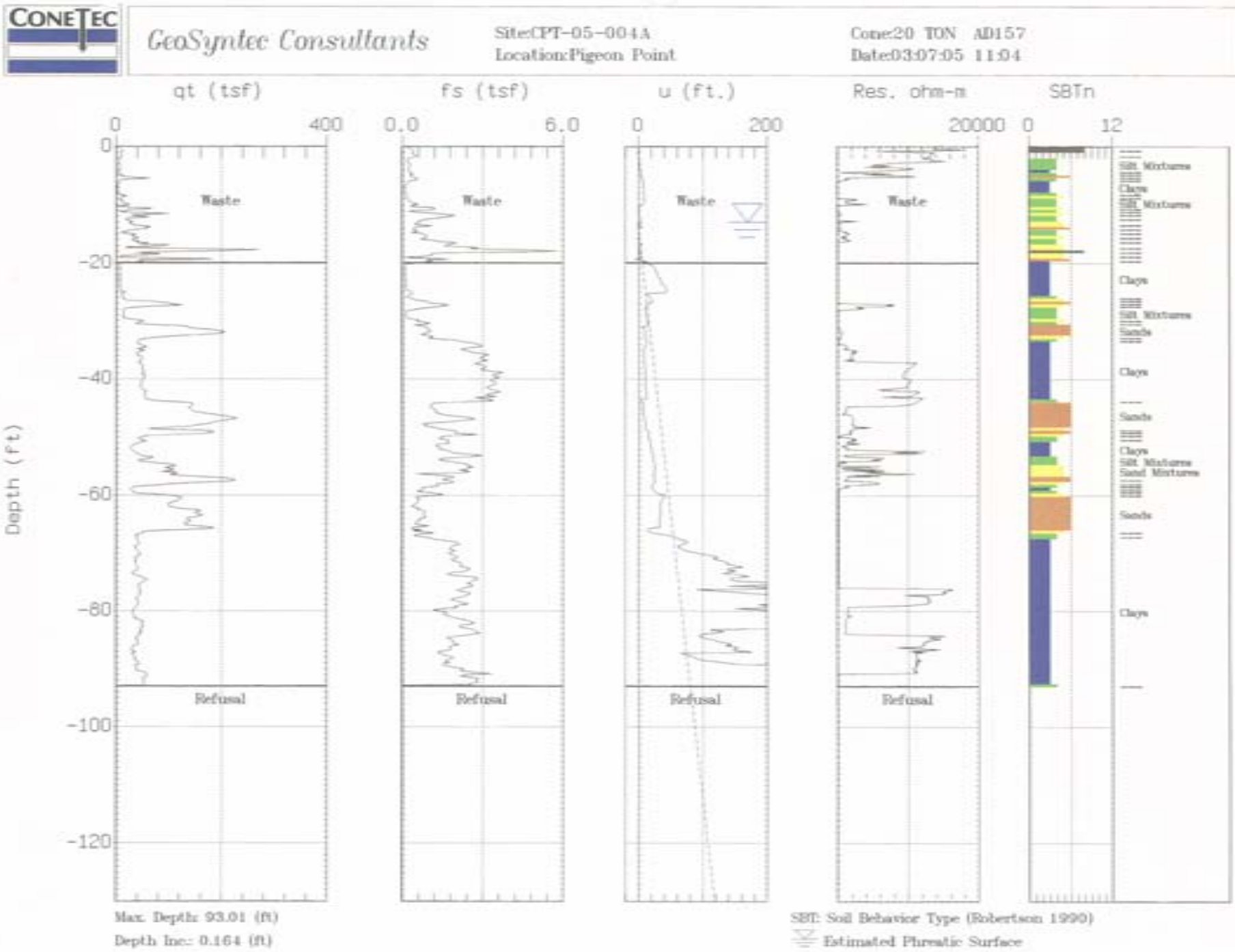
Site:CPT-05-004
Location:Pigeon Point

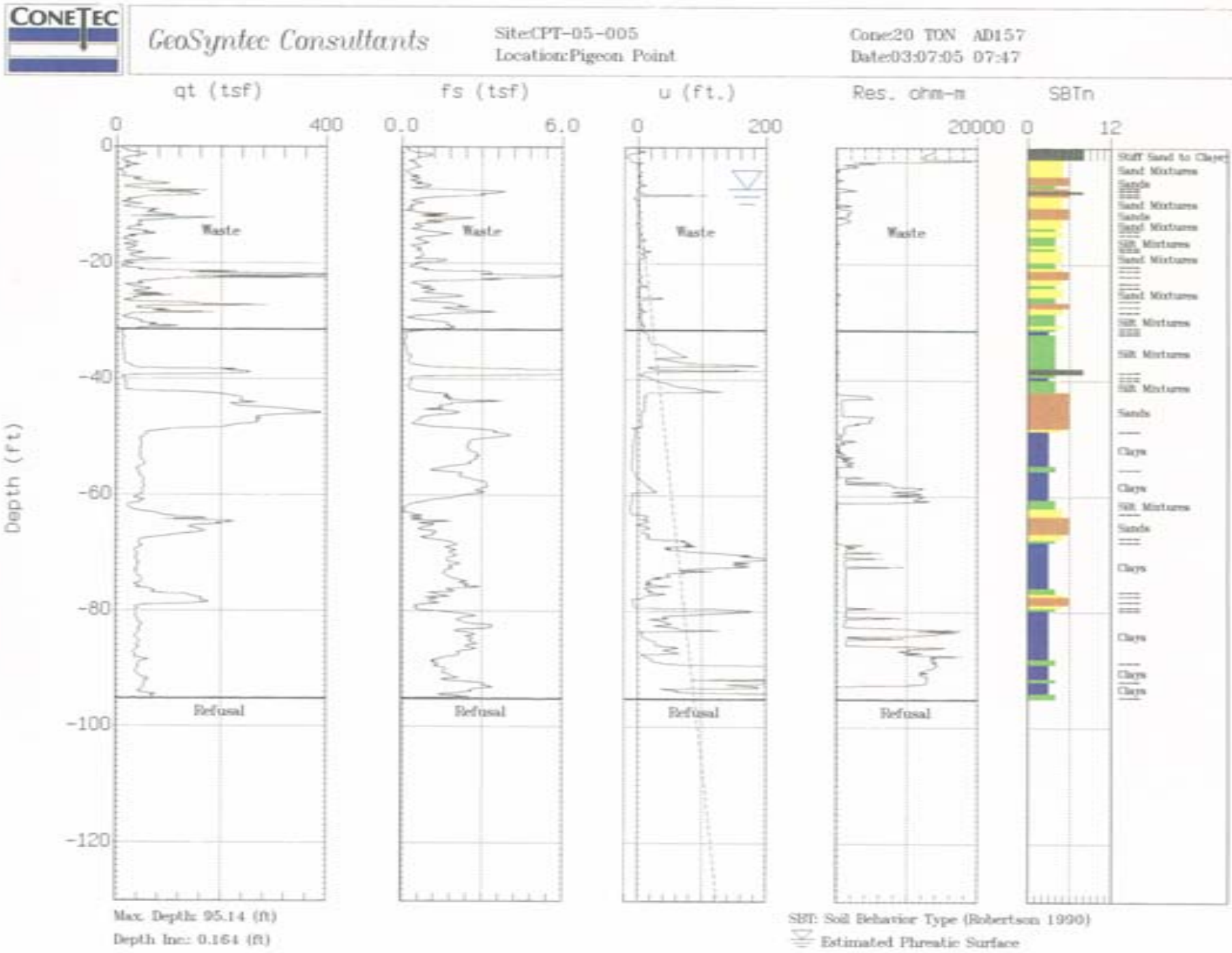
Cone:20 TON AD157
Date:03/07/05 10:24

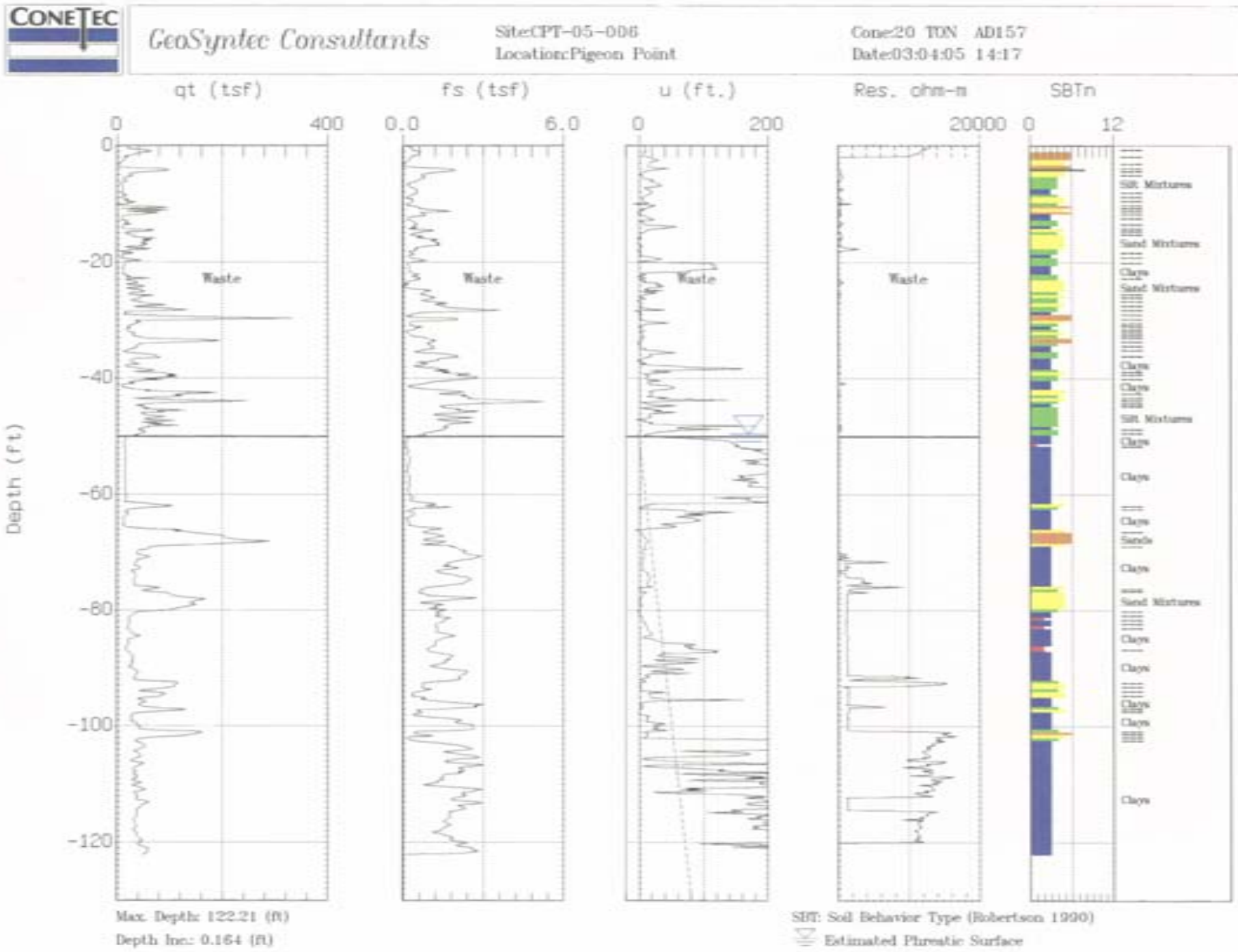


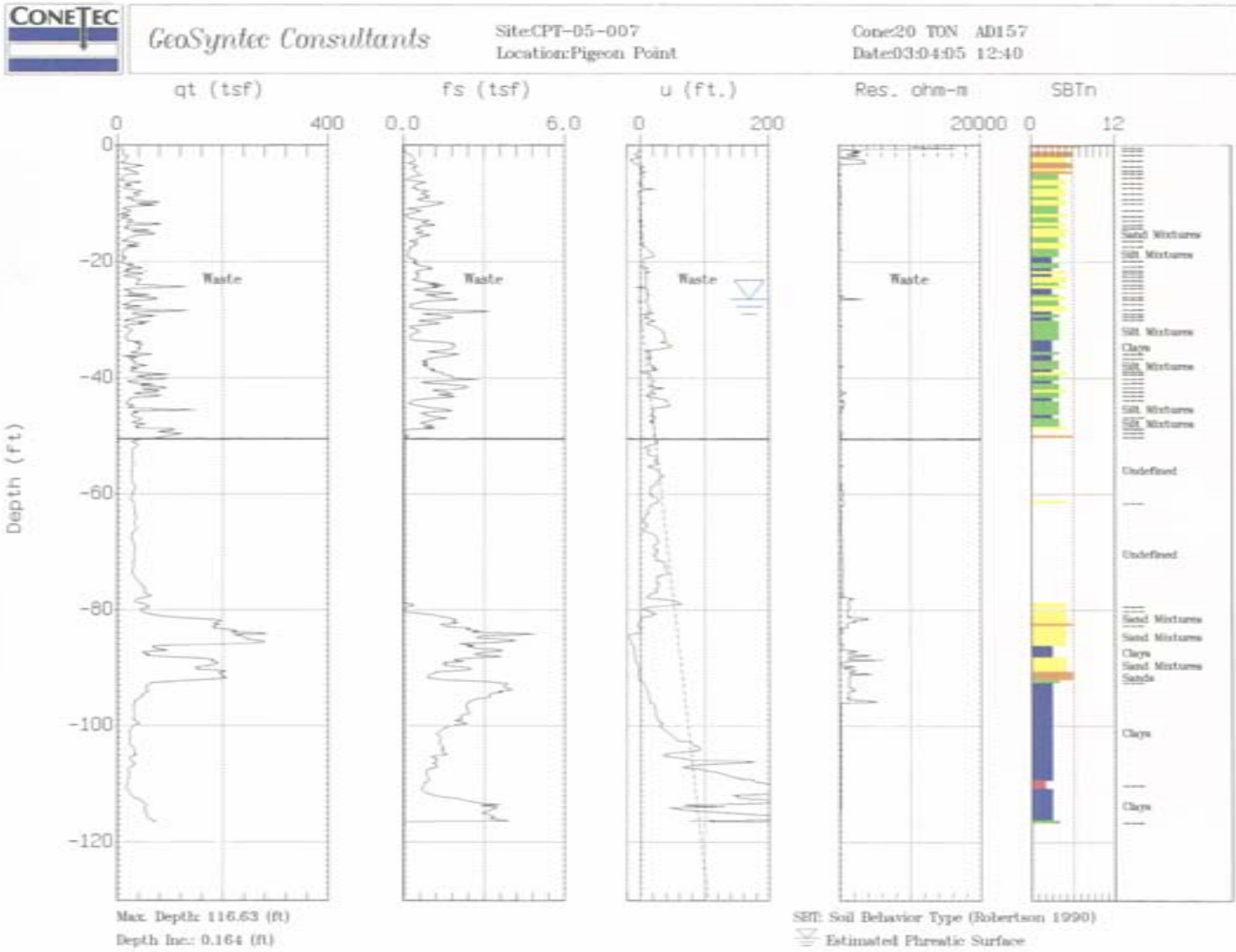
Max. Depth: 17.22 (ft)
Depth Inc.: 0.164 (ft)

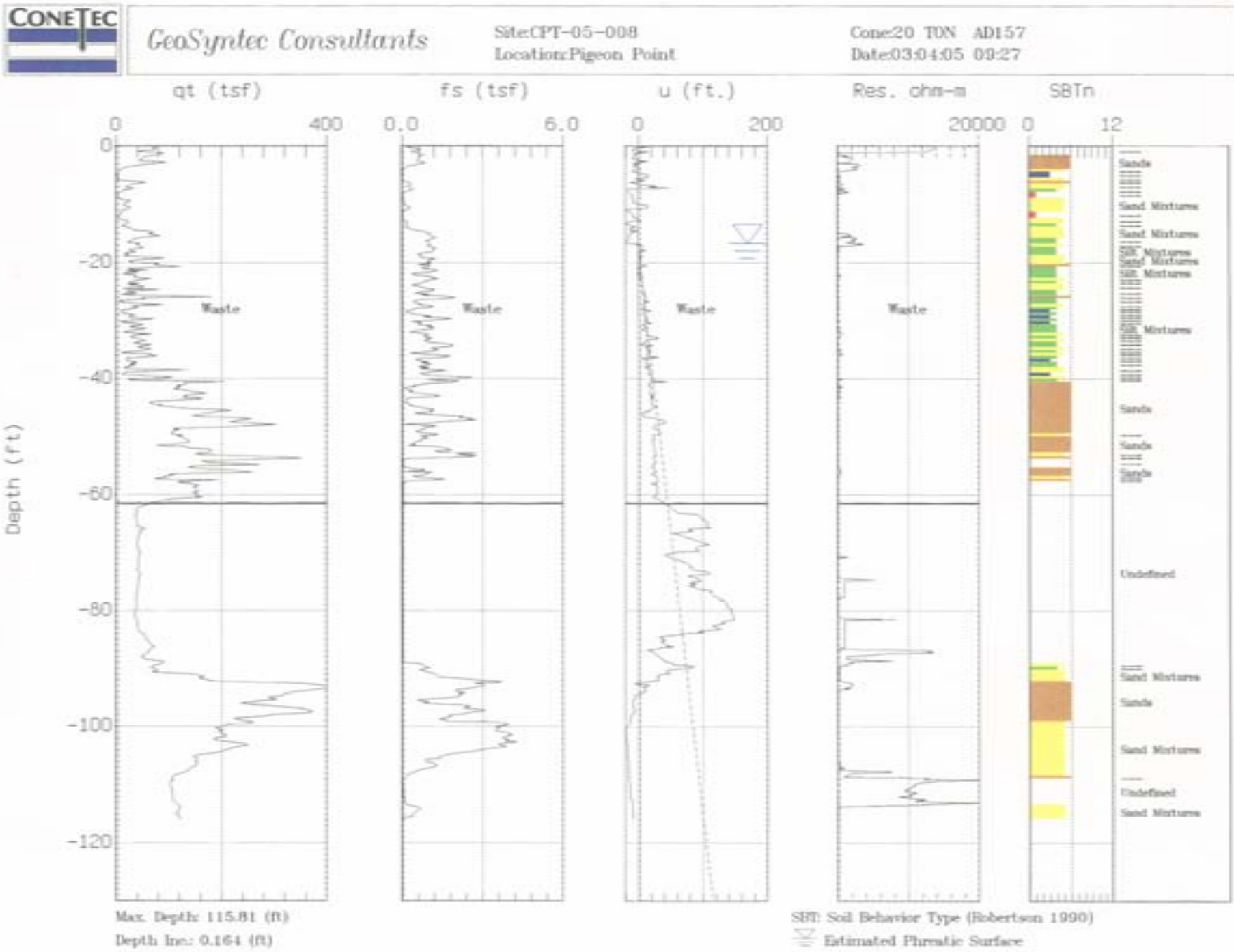
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-004A
Location:Pigeon Point
Cone:20 TON AD157
Date:03:07:05 11:04
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Refusal
Silt Mixtures
Clays
Sands
Sand Mixtures
Max. Depth: 93.01 (ft)
Depth Inc: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-005
Location:Pigeon Point
Cone:20 TON AD157
Date:03:07:05 07:47
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Refusal
Stiff Sand to Clayey
Sand Mixtures
Sands
Sand Mixtures
Sands
Sand Mixtures
Silt Mixtures
Sand Mixtures
Sand Mixtures
Silt Mixtures
Silt Mixtures
Silt Mixtures
Sands
Clays
Clays
Silt Mixtures
Sands
Clays
Clays
Clays
Clays
Max. Depth: 95.14 (ft)
Depth Inc: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-006
Location:Pigeon Point
Cone:20 TON AD157
Date:03:04:05 14:17
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Silt Mixtures
Sand Mixtures
Clays
Sand Mixtures
Clays
Clays
Silt Mixtures
Clays
Clays
Clays
Sands
Clays
Sand Mixtures
Clays
Clays
Clays
Clays
Clays
Max. Depth: 122.21 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface


CONETEC
GeoSyntec Consultants
Site:CPT-05-007
Location:Pigeon Point
Cone:20 TON AD157
Date:03:04:05 12:40
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Sand Mixtures
Silt Mixtures
Silt Mixtures
Clays
Silt Mixtures
Silt Mixtures
Silt Mixtures
Undefined
Undefined
Sand Mixtures
Sand Mixtures
Clays
Sand Mixtures
Sands
Clays
Clays
Max. Depth: 116.63 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

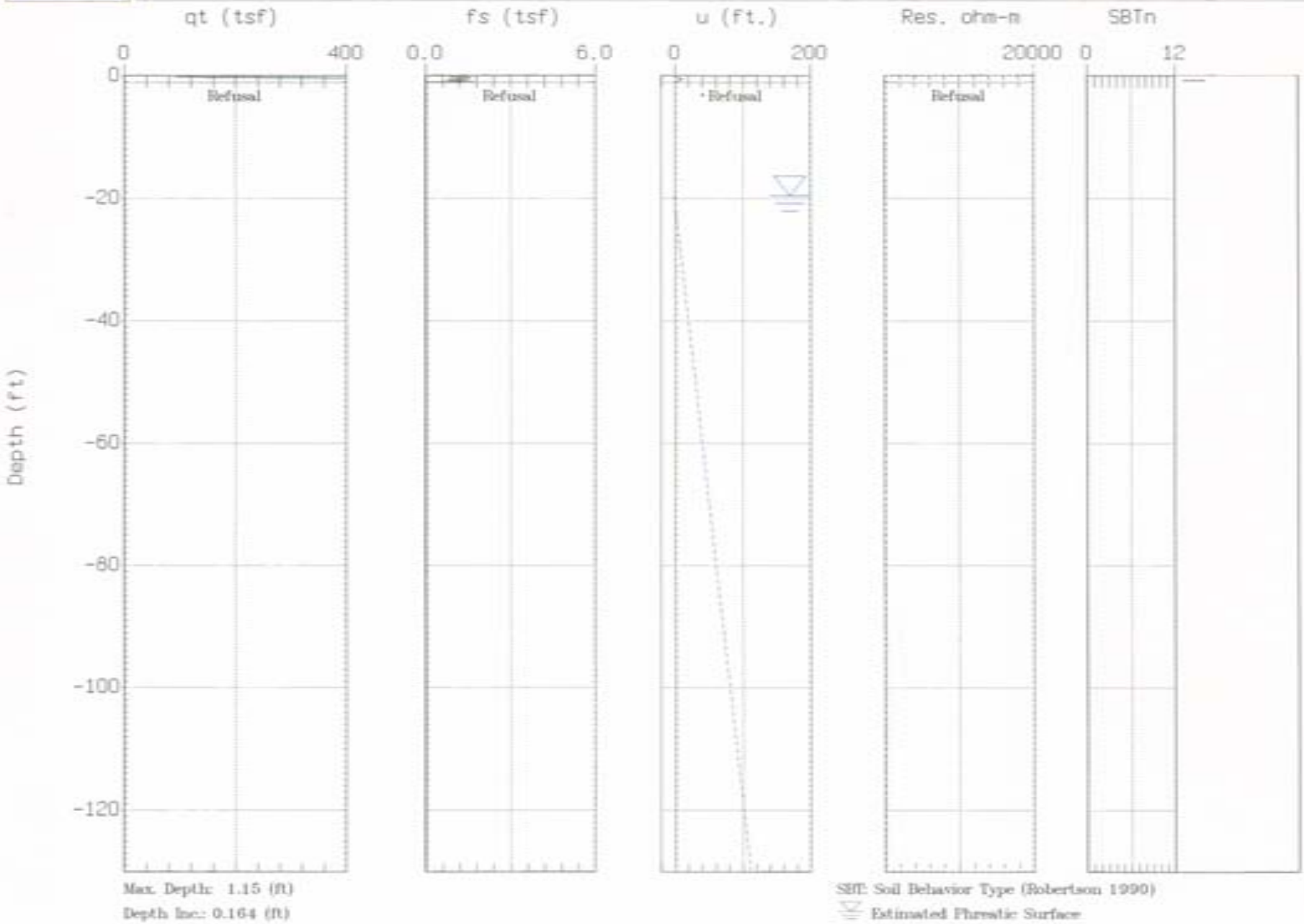

CONETEC
GeoSyntec Consultants
Site:CPT-05-008
Location:Pigeon Point
Cone:20 TON AD157
Date:03:04:05 09:27
qt (tsf)
fs (tsf)
u (ft.)
Res. ohm-m
SBTn
0
400
0.0
6.0
0
200
20000
0
12
Depth (ft)
0
-20
-40
-60
-80
-100
-120
Waste
Waste
Waste
Waste
Sands
Sand Mixtures
Sand Mixtures
Silt Mixtures
Sand Mixtures
Silt Mixtures
Silt Mixtures
Sands
Sands
Sands
Undefined
Sand Mixtures
Sands
Sand Mixtures
Undefined
Sand Mixtures
Max. Depth: 115.81 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

CONETEC

GeoSyntec Consultants

Site:CPT-05-0012
Location:Pigeon Point

Cone: 20 TON A AD157
Date:03:07:05 13:30



Max. Depth: 1.15 (ft)
Depth Inc.: 0.164 (ft)

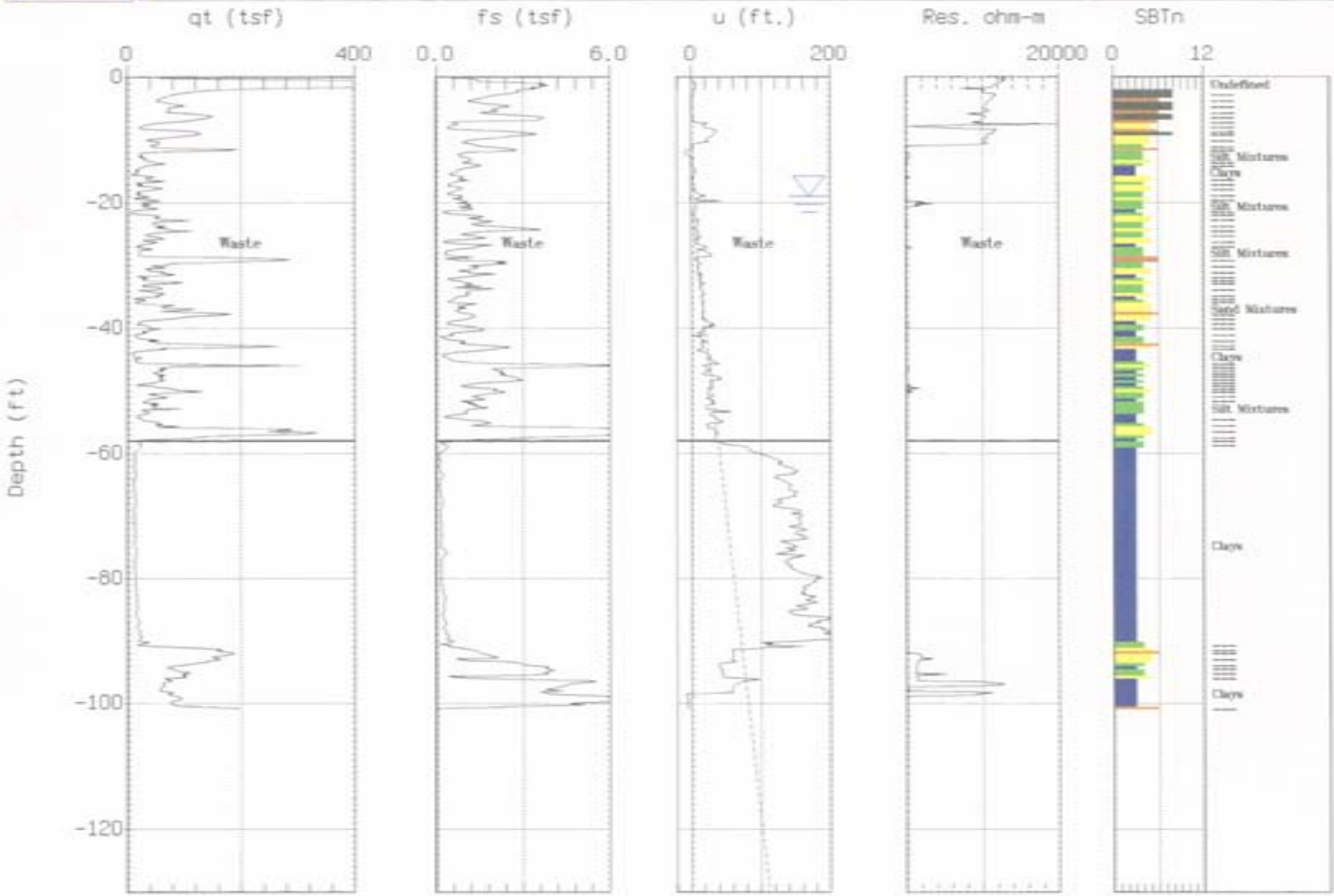
SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

CONETEC

GeoSyntec Consultants

Site:CPT-05-0012
Location:Pigeon Point

Cone:20 TON AD157
Date:03/07/05 13:41



Max. Depth: 100.88 (ft)
Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)
Estimated Phreatic Surface

Appendix B

ConeTec Interpretations as of June 30, 2004 (Release 1.22A)

ConeTec's interpretation routine provides a tabular output of geotechnical parameters based on 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. ConeTec does not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the program and does not assume liability for any use of the results in any design or review. Representative hand calculations should be made for any parameter that is critical for design purposes. The end user of the interpreted output should also be fully aware of the techniques and the limitations of any method used in this program. The purpose of this document is to inform the user as to which methods were used and what the appropriate papers and/or publications are for further reference.

The CPT interpretations are based on values of tip, sleeve friction and pore pressure averaged over a user specified interval (e.g. 0.20m). Note that q_t is the tip resistance corrected for pore pressure effects and q_c is the recorded tip resistance. Since all ConeTec cones have equal end area friction sleeves, pore pressure corrections to sleeve friction, f_s, are not required.

The tip correction is: $q_t = q_c + (1-a) * u_2$

where: q_t is the corrected tip resistance
q_c is the recorded tip resistance
u_2 is the recorded dynamic pore pressure behind the tip (u_2 position)
a is the Net Area Ratio for the cone (typically 0.85 for ConeTec cones)

The total stress calculations are based on soil unit weights that have been assigned to the Soil Behavior Type zones, from a user defined unit weight profile or by using a single value throughout the profile. 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). For over water projects the effects of the column of water have been taken into account as has the appropriate unit weight of water. How this is done depends on where the instruments were zeroed (i.e. on deck or at mud line).

Details regarding the interpretation methods for all of the interpreted parameters are provided in Table 1. The appropriate references cited in Table 1 are listed in Table 2. Where methods are based on charts or techniques that are too complex to describe in this summary the user should refer to the cited material.

The estimated Soil Behavior Types (normalized and non-normalized) are based on the charts developed by Robertson and Campanella shown in Figures 1 and 2. The Bq classification charts are not reproduced in this document but can be reviewed in Lunne, Robertson and Powell (1997) or Robertson (1990).

Where the results of a calculation/interpretation are declared *'invalid'* the value will be represented by the text strings "-9999" or "-9999.0". In some cases the value 0 will be used. Invalid results will occur because of (and not limited to) one or a combination of:

1. Invalid or undefined CPT data (e.g. drilled out section or data gap).
2. Where the interpretation method is inappropriate, for example, drained parameters in an undrained material (and vice versa).
3. Where interpretation input values are beyond the range of the referenced charts or specified limitations of the interpretation method.
4. Where pre-requisite or intermediate interpretation calculations are invalid.

The parameters selected for output from the program are often specific to a particular project. As such, not all of the interpreted parameters listed in Table 1 may be included in the output files delivered with this report.

The output files are often delivered in one (or more) of the following three formats:

File Type	Typical Extensions	Description
Printable	IFP, NLP	ASCII files formatted for direct printing either by copying to a printer port, through a text editor or through a dedicated printing routine (such as ConeTec's CTPRINT). Typically formatted for 132 columns wide and 70 lines per page. Any printer would need to be set to have a compressed font (16cpi) as its default.
Importable	IFI, NLI	Tab delimited ASCII files (not for use with text editors) meant for importing into spreadsheet and database applications (e.g. Excel, Lotus, Quattro, Access). Some column and cell formatting maybe required depending on the quality of the application's import utility.
Spreadsheet	XLS	IFI, NLI files exported directly to Excel format. Column and cell formatting has been done. Header information is exported to start in Column C allowing the depth columns A and/or B to be duplicated on each printed page without repetition of part of the header information.

Table 1
CPT Interpretation Methods

Interpreted Parameter	Description	Equation	Ref
Depth	Mid Layer Depth *(where interpretations are done at each point then Mid Layer Depth = Recorded Depth)*	*Depth (Layer Top) + Depth (Layer Bottom) / 2.0*	
Elevation	Elevation of Mid Layer based on sounding collar elevation supplied by client	Elevation = Collar Elevation - Depth	
Avgqc	Averaged recorded tip value (q_c)	$Avgqc = \frac{1}{n}\sum_{i=1}^{n} q_i$ *n=1 when interpretations are done at each point*	
Avgqt	Averaged corrected tip (q_t) where: $q_t = q_c + (1-a) * u$	$Avgqt = \frac{1}{n}\sum_{i=1}^{n} q_t$ *n=1 when interpretations are done at each point*	
Avgfs	Averaged sleeve friction (f_s)	$Avgfs = \frac{1}{n}\sum_{i=1}^{n} fs$ *n=1 when interpretations are done at each point*	
AvgRf	Averaged friction ratio (Rf) where friction ratio is defined as: $Rf = 100\% * \frac{fs}{qt}$	$AvgRf = 100\% * \frac{Avgfs}{Avgqt}$ *n=1 when interpretations are done at each point*	
Avgu	Averaged dynamic pore pressure *(u)*	$Avgu = \frac{1}{n}\sum_{i=1}^{n} u_i$ *n=1 when interpretations are done at each point*	
AvgRes	Averaged Resistivity (this data is not always available since it is a specialized test requiring an additional module)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} RESISTIVITY_i$ *n=1 when interpretations are done at each point*	

Interpreted Parameter	Description	Equation	Ref
AvgUVIF	Averaged UVIF ultra-violet induced fluorescence (this data is not always available since it is a specialized test requiring an additional module)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} UVIF_i$ *n=1 when interpretations are done at each point*	
AvgTemp	Averaged Temperature (this data is not always available since it is a specialized test)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} TEMPERATURE_i$ *n=1 when interpretations are done at each point*	
AvgGamma	Averaged Gamma Counts (this data is not always available since it is a specialized test requiring an additional module)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} GAMMA_i$ *n=1 when interpretations are done at each point*	
SBT	Soil Behavior Type as defined by Robertson and Campanella	See Figure 1	2, 5
U.Wt.	Unit Weight of soil determined from one of the following user selectable options: 1) uniform value 2) value assigned to each SBT zone 3) user supplied unit weight profile	See references	5
T. Stress σ_v	Total vertical overburden stress at Mid Layer Depth. *A layer is defined as the averaging interval specified by the user. For data interpreted at each point the Mid Layer Depth is the same as the recorded depth.*	$TStress = \sum_{i=1}^{n} \gamma_i h_i$ where γ_i is layer unit weight h_i is layer thickness	
E. Stress σ'_v	Effective vertical overburden stress at Mid Layer Depth	$Estress = Tstress - u_{eq}$	
Ueq	Equilibrium pore pressure determined from one of the following user selectable options: 1) hydrostatic from water table depth 2) user supplied profile	For hydrostatic option: $u_{eq} = \gamma_w * (D - D_{wt})$ where u_{eq} is equilibrium pore pressure γ_w is unit weight of water D is the current depth D_{wt} is the depth to the water table	
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. This method has abrupt N value changes at zone boundaries.	*See Figure 1*	4, 5
$(N_1)_{60}$	SPT N_{60} value corrected for overburden pressure	$(N_1)_{60} = Cn * N_{60}$	4
$N_{60}I_c$	SPT N_{60} values based on the Ic parameter	(qt/pa)/ N_{60} = 8.5 (1 – Ic/4.6)	5
$(N_1)_{60}Ic$	SPT N_{60} value corrected for overburden pressure (using N_{60} I_c). User has 2 options.	1) $(N_1)_{60}Ic = Cn * (N_{60}\ Ic)$ 2) $q_{c1n}/(N_1)_{60}Ic$ = 8.5 (1 – Ic/4.6)	4 5
		1) $(N_1)_{60cs}Ic = \alpha + \beta((N_1)_{60}Ic)$ 2) $(N_1)_{60cs}Ic = K_{SPT} * ((N_1)_{60}Ic)$ 3) $q_{c1ncs}/(N_1)_{60cs}Ic$ = 8.5 (1 – Ic/4.6)	10 10 5
$(N_1)_{60cs}Ic$	Clean sand equivalent SPT $(N_1)_{60}Ic$. User has 3 options.	FC ≤ 5%: $\alpha = 0$, $\beta = 1.0$ FC ≥ 35% $\alpha = 5.0$, $\beta = 1.2$ 5% < FC < 35% $\alpha = \exp[1.76 - (190/FC^2)]$ $\beta = [0.99 + (FC^{1.5}/1000)]$	
Su	Undrained shear strength - N_{kt} is user selectable	$Su = \frac{qt - \sigma_v}{N_{kt}}$	1, 5
k	Coefficient of permeability (assigned to each SBT zone)		5

Interpreted Parameter	Description	Equation	Ref
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{qt - \sigma_v}$ where: $\Delta u = u - u_{eq}$ and u = dynamic pore pressure, u_{eq} = equilibrium pore pressure	1, 5
Q_t	Normalized q_t for Soil Behavior Type classification as defined by Robertson, 1990	$Qt = \frac{qt - \sigma_v}{\sigma'_v}$	2, 5
F_r	Normalized Friction Ratio for Soil Behavior Type classification as defined by Robertson, 1990	$Fr = 100\% * \frac{f_s}{qt - \sigma_v}$	2, 5
SBTn	Normalized Soil Behavior Type as defined by Robertson and Campanella	See Figure 2	2, 5
SBT-BQ	Non-normalized soil behavior type based on the Bq parameter	See Figure 5.7 (reference 5)	2, 5
SBT-BQn	Normalized Soil Behavior base on the Bq parameter	See Figure 5.8 (reference 5) or Figure 3 (reference 2)	2, 5
I_c	Soil index for estimating grain characteristics	$Ic = [(3.47 - \log_{10}Q)^2 + (\log_{10} Fr + 1.22)^2]^{0.5}$ Where: $Q = \left(\frac{qt - \sigma_v}{P_{a1}}\right)\left(\frac{P_a}{\sigma'_v}\right)^n$ And Fr is in percent, P_a = atmospheric pressure, P_{a2} = atmospheric pressure, n varies from 0.5 to 1.0 and is selected in an iterative manner based on the resulting I_c	3, 8
FC	Apparent 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 $F_r<0.5$	3
Ic Zone	This parameter is the Soil Behavior Type zone based on the Ic parameter (valid for zones 2 through 7 on SBTn chart)	Ic < 1.31 Zone = 7 1.31 < Ic < 2.05 Zone = 6 2.05 < Ic < 2.60 Zone = 5 2.60 < Ic < 2.95 Zone = 4 2.95 < Ic < 3.60 Zone = 3 Ic > 3.60 Zone = 2	3
PHI ϕ	Friction Angle determined from one of the following user selectable options: a) Campanella and Robertson b) Durgunoglu and Mitchel c) Janbu	See reference	5
Dr	Relative Density determined from one of the following user selectable options: a) Ticino Sand b) Hokksund Sand c) Schmertmann 1976 d) Jamiolkowski - All Sands	See reference	5

Interpreted Parameter	Description	Equation	Ref
OCR	Over Consolidation Ratio	a) Based on Schmertmann's method involving a plot of $S_u/\sigma_v' / (S_u/\sigma_v')_{NC}$ and OCR where the Su/p' ratio for NC clay is user selectable	9
State Parameter	The state parameter is used to describe whether a soil is contractive (SP is positive) or dilative (SP is negative) at large strains based on the work by Been and Jefferies	See reference	8, 6, 5
Es/qt	Intermediate parameter for calculating Youngs Modulus, E, in sands. It is the Y axis of the reference chart.	Based on Figure 5.59 in the reference	5
Youngs Modulus E	Youngs Modulus based on the work by Baldi. There are three types of sands considered in this technique. The user selects the appropriate type for the site from: a) OC Sands b) Aged NC Sands c) Recent NC Sands Each sand type has a family of curves that depend on mean normal stress. The program calculates mean normal stress and linearly interpolates between the two extremes provided in Baldi's chart.	Mean normal stress is evaluated from: $\sigma'_m = \frac{1}{3} \cdot (\sigma'_v + \sigma'_h + \sigma'_v)$ where σ_v' = vertical effective stress σ_h' = horizontal effective stress and $\sigma_h = K_o * \sigma_v'$ with Ko assumed to be 0.5	5
q_{c1}	q_t normalized for overburden stress used for seismic analysis	$q_{c1} = q_t * (Pa/\sigma_v')^{0.5}$ where: Pa = atm. Pressure q_t is in Mpa	3
q_{c1n}	q_{c1} in dimensionless form used for seismic analysis	$q_{c1n} = (q_{c1} / Pa)(Pa/\sigma_v')$ where: Pa = atm. Pressure and n ranges from 0.5 to 0.75 based on Ic.	3
K_{SPT}	Equivalent clean sand factor for $(N_1)60$	$K_{SPT} = 1 + ((0.75/30) * (FC - 5))$	10
K_{CPT}	Equivalent clean sand correction for q_{c1N}	$K_{cpt} = 1.0$ for $I_c \leq 1.64$ $K_{cpt} = f(I_c)$ for $I_c > 1.64$ (see reference)	10
q_{c1Ncs}	Clean sand equivalent q_{c1n}	$q_{c1Ncs} = q_{c1n} * K_{cpt}$	3
CRR	Cyclic Resistance Ratio (for Magnitude 7.5)	$q_{c1Ncs} < 50$: $CRR_{7.5} = 0.833 [(q_{c1Ncs}/1000)] + 0.05$ $50 \leq q_{c1Ncs} < 160$: $CRR_{7.5} = 93 [(q_{c1Ncs}/1000)]^3 + 0.08$	10
CSR	Cyclic Stress Ratio	$CSR = (\tau_{av}/\sigma_v') = 0.65 (a_{max} / g) (\sigma_v / \sigma_v') r_d$ $r_d = 1.0 - 0.00765\ z$ $z \leq 9.15m$ $r_d = 1.174 - 0.0267\ z$ $9.15 < z \leq 23m$ $r_d = 0.744 - 0.008\ z$ $23 < z \leq 30m$ $r_d = 0.50$ $z > 30m$	10

Interpreted Parameter	Description	Equation	Ref
MSF	Magnitude Scaling Factor	See Reference	10
FofS	Factor of Safety against Liquefaction	FS = ($CRR_{7.5}$ / CSR) MSF	10
Liquefaction Status	Statement indicating possible liquefaction	Takes into account FofS and limitations based I_c and q_{c1ncs}	10

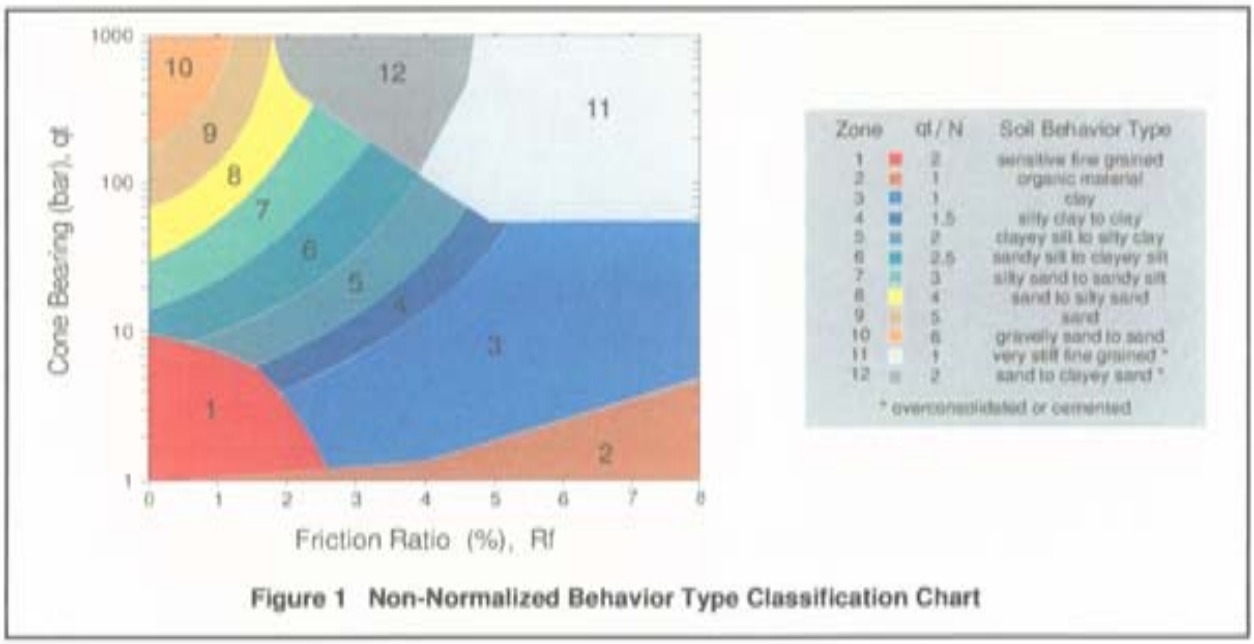


Figure 1 Non-Normalized Behavior Type Classification Chart

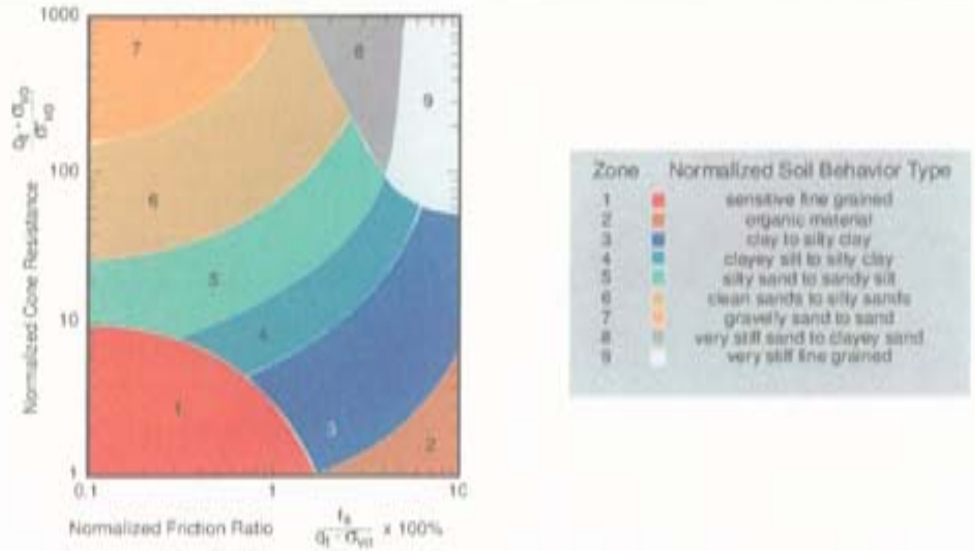


Figure 2 Normalized Behavior Type Classification Chart

Table 2 References

No.	References
1	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.
2	Robertson, P.K., 1990, "Soil Classification Using the Cone Penetration Test", Canadian Geotechnical Journal, Volume 27.
3	Robertson, P.K. and Fear, C.E., 1998, "Evaluating cyclic liquefaction potential using the cone penetration test", Canadian Geotechnical Journal, 35: 442-459.
4	Robertson, P.K. and Wride, C.E., 1998, "Cyclic Liquefaction and its Evaluation Based on SPT and CPT", NCEER Workshop Paper, January 22, 1997
5	Lunne, T., Robertson, P.K. and Powell, J. J. M., 1997, " Cone Penetration Testing in Geotechnical Practice," Blackie Academic and Professional.
6	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.
7	Jefferies, M.G. and Davies, M.P., 1993. "Use of CPTu to Estimate equivalent N_{60}", Geotechnical Testing Journal, 16(4): 458-467.
8	Been, K. and Jefferies, M.P., 1985, "A state parameter for sands", Geotechnique, 35(2), 99-112.
9	Schmertmann, 1977, "Guidelines for Cone Penetration Test Performance and Design", Federal Highway Administration Report FHWA-TS-78-209, U.S. Department of Transportation
10	Proceedings of theNCEER Workshop on Evaluation of Liquefaction Resistance of Soils, Salt LakeCity, 1996. Chaired by Leslie Youd.

Interpretation Output - Release 1.22 Rev. A - Build 5 Format: NL2 Imperial
Run No: 15-0303-1258-5297
Job No: 05-121
Client: WesSymtec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site CPT-05-001
Operator: Pigeon Point
Cone: 20 TON AG157
CPT Date 03/03/05
CPT Time 08 57
CPT File: 121\CP01 COR
Northing (ft): 0.000000
Easting (ft): 0.000000
Elevation (m): 0.000000

Water Table (ft): 1.95 (ft): 31.2
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m) 0.10
Sc Fit Used: 15.00 Sc/P' (nc) 0.36
Dr Method : Jamiolkowski - All Sands
State Parameter Ψ: 1.06
Land Unit Weights Assigned to Soil Zones
Nitrite Calculated using qcin
Nitrites Calculated using qtncs

Col-01 Depth (m)	Col-02 Depth (ft)	Col 03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col 08 Rf (%)	Col 09 u (tsf)	Col 10 SBC Zone)	Col 11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	5.67	5.90	0.16	2.77	0.87	3	6
0.100	0.492	-0.100	-0.492	7.04	7.09	0.26	3.76	0.93	4	6
0.150	0.820	-0.150	-0.820	6.91	6.96	0.24	3.51	0.98	3	6
0.200	1.148	-0.150	-1.148	12.68	12.83	0.35	2.80	1.36	5	6
0.250	1.476	-0.250	-1.476	11.41	11.66	0.38	3.38	0.96	4	6
0.300	1.804	-0.350	-1.804	9.64	9.82	0.33	3.37	0.21	4	5
0.350	2.131	-0.350	-2.131	8.20	8.33	0.29	3.58	-0.84	3	4
0.400	2.461	-0.450	-2.461	5.68	5.68	0.11	2.06	0.06	3	4
0.450	2.789	-0.450	-2.789	5.39	5.43	0.12	2.13	0.87	3	4
0.500	3.117	-0.550	-3.117	9.84	9.87	0.38	3.91	5.04	3	4
0.550	3.445	-0.550	-3.445	10.18	10.35	0.44	4.30	2.93	5	4
0.600	3.773	-0.650	-3.773	12.69	12.91	0.41	3.18	2.07	4	4
0.650	4.101	-0.650	-4.101	16.03	16.02	0.44	2.72	2.01	5	5
0.700	4.429	-0.750	-4.429	17.43	17.44	0.52	2.99	6.10	5	5
0.750	4.757	-0.750	-4.757	16.35	16.36	0.52	3.16	2.38	5	5
0.800	5.085	-0.850	-5.085	12.14	12.09	0.39	3.24	1.09	4	4
0.850	5.413	-0.850	-5.413	11.96	11.97	0.36	2.99	0.74	4	4
0.900	5.741	-0.950	-5.741	25.01	25.01	0.51	1.99	-0.79	6	5
0.950	6.069	-0.950	-6.069	28.78	28.80	0.52	1.79	4.29	6	5
1.000	6.398	-1.050	-6.398	18.43	18.45	0.46	2.47	5.03	5	5
1.050	6.726	-1.050	-6.726	15.59	15.62	0.39	2.47	4.09	5	5
1.100	7.054	-1.150	-7.054	20.22	20.05	0.41	2.02	6.51	6	5
1.150	7.382	-1.150	-7.382	29.29	29.32	0.37	1.26	6.65	7	5
1.200	7.710	-1.250	-7.710	22.29	22.32	0.47	2.09	6.14	6	5
1.250	8.038	-1.350	-8.038	19.59	19.61	0.32	1.64	7.00	5	5
1.300	8.366	-1.350	-8.366	16.73	16.71	0.20	1.17	5.42	4	5
1.350	8.694	-1.450	-8.694	20.12	20.15	0.39	1.94	6.65	5	5
1.400	9.022	-1.450	-9.022	22.01	22.05	0.56	2.55	10.02	5	5
1.450	9.350	-1.550	-9.350	22.04	22.05	0.52	2.34	5.35	5	5
1.500	9.678	-1.550	-9.678	18.39	18.42	0.58	3.16	5.64	5	4
1.550	10.006	-1.650	-10.006	13.93	13.97	0.24	3.02	3.75	4	4
1.600	10.335	-1.650	-10.335	18.02	18.07	0.66	3.51	12.49	5	4

Run No: [illegible]
CPT File: 721CP01.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (None)	Col-11 SBTn (None)
3.700	12.664	-3.250	-10.615	21.91	25.96	0.68	2.30	11.31	6	5
3.750	12.301	-3.300	-10.791	23.53	27.58	0.59	2.74	10.66	6	6
3.850	12.629	-3.400	-11.119	9.62	5.09	0.26	2.69	14.90	4	4
3.950	12.957	-3.500	-11.447	15.31	15.89	0.27	2.11	14.53	5	4
4.050	13.285	-3.600	-11.775	21.34	21.36	0.46	2.14	4.99	4	4
4.150	13.614	-3.700	-12.103	16.15	16.16	0.43	2.67	6.15	5	4
4.250	13.942	-3.800	-12.431	26.36	28.36	0.63	1.50	0.12	6	5
4.350	14.270	-3.900	-12.759	18.65	18.65	0.64	1.69	0.10	7	5
4.450	14.598	-4.000	-13.087	20.34	20.36	0.83	4.06	2.84	6	6
4.550	14.926	-4.100	-13.415	19.44	19.76	0.79	3.98	3.15	6	6
4.650	15.255	-4.200	-13.743	19.61	19.84	0.73	3.70	5.13	6	6
4.750	15.583	-4.300	-14.071	19.20	19.39	0.55	2.69	-0.14	6	6
4.850	15.911	-4.400	-14.399	21.12	21.94	0.58	2.41	1.98	6	6
4.950	16.239	-4.500	-14.727	19.24	19.99	0.16	0.83	5.93	5	6
5.050	16.568	-4.600	-15.056	19.24	19.78	0.46	2.35	-0.64	6	6
5.150	16.896	-4.700	-15.384	18.22	18.91	0.48	2.61	0.52	6	6
5.250	17.224	-4.800	-15.712	18.69	18.92	0.44	2.36	6.26	6	6
5.350	17.552	-4.900	-16.040	20.25	20.31	0.45	2.20	5.06	6	6
5.450	17.881	-5.000	-16.368	16.55	16.90	0.29	1.69	8.85	6	6
5.550	18.209	-5.100	-16.696	10.43	10.45	0.10	0.96	-0.12	6	6
5.650	18.537	-5.200	-17.024	19.65	19.67	0.14	0.67	5.15	7	5
5.750	18.865	-5.300	-17.352	16.93	16.94	0.10	0.55	3.37	6	5
5.850	19.193	-5.400	-17.680	19.65	19.66	0.09	0.45	10.97	7	6
5.950	19.522	-5.500	-18.009	13.96	13.11	0.07	0.54	9.60	6	5
6.050	19.850	-5.600	-18.337	11.12	11.14	0.04	0.31	10.19	6	5
6.150	20.178	-5.700	-18.665	10.96	10.11	0.03	0.25	10.79	6	5
6.250	20.506	-5.800	-18.993	9.97	9.65	0.02	0.23	11.94	5	5
6.350	20.834	-5.900	-19.321	9.95	9.00	0.01	0.11	11.94	5	5
6.450	21.163	-6.000	-19.649	11.66	11.72	0.02	0.11	12.54	6	5
6.550	21.491	-6.100	-19.977	10.22	10.26	0.01	0.24	11.24	6	5
6.650	21.819	-6.200	-20.305	10.00	10.01	0.01	0.09	12.11	6	5
6.750	22.147	-6.300	-20.633	12.67	12.68	0.05	0.40	-0.90	6	5
6.850	22.476	-6.400	-20.961	11.54	11.55	0.07	0.62	-0.75	6	5
6.950	22.804	-6.500	-21.289	12.20	12.22	0.05	0.37	0.44	6	5
7.050	23.132	-6.600	-21.617	11.38	11.22	0.02	0.17	0.04	6	5
7.150	23.460	-6.700	-21.945	9.90	9.95	0.02	0.20	10.67	5	5
7.250	23.789	-6.800	-22.273	9.68	9.71	0.02	0.26	11.69	5	5
7.350	24.117	-6.900	-22.602	9.51	9.57	0.02	0.25	12.77	5	5
7.450	24.445	-7.000	-22.930	9.55	10.05	0.02	0.20	13.44	5	5
7.550	24.774	-7.100	-23.258	8.50	8.02	0.01	0.11	10.61	5	5
7.650	25.102	-7.200	-23.586	8.05	8.09	0.03	1.42	8.56	5	4
7.750	25.430	-7.300	-23.914	11.02	11.07	0.03	0.27	12.61	6	5
7.850	25.758	-7.400	-24.242	10.61	10.67	0.04	0.33	14.04	6	5
7.950	26.087	-7.500	-24.570	10.60	10.65	0.04	0.38	11.99	6	5
8.050	26.415	-7.600	-24.898	11.37	11.44	0.04	0.35	12.99	6	5
8.150	26.743	-7.700	-25.226	11.63	11.66	0.04	0.34	11.74	6	5
8.250	27.071	-7.800	-25.554	12.19	12.20	0.05	0.41	13.33	6	5
8.350	27.400	-7.900	-25.882	12.62	12.66	0.06	0.48	9.61	6	5
8.450	27.728	-8.000	-26.210	12.20	12.26	0.06	0.45	10.79	6	4
8.550	28.056	-8.100	-26.538	11.21	11.26	0.06	0.53	11.67	6	4
8.650	28.384	-8.200	-26.866	12.65	12.72	0.05	0.39	16.29	6	4
8.750	28.713	-8.300	-27.195	12.30	12.36	0.05	0.44	17.74	6	4
8.850	29.041	-8.400	-27.523	12.20	12.26	0.06	0.49	17.53	6	4
8.950	29.369	-8.500	-27.851	12.93	12.97	0.05	0.39	16.78	7	5
9.050	29.697	-8.600	-28.179	11.19	11.23	0.04	0.34	16.27	6	4
9.150	30.026	-8.700	-28.508	10.76	10.80	0.04	0.37	15.30	6	4
9.250	30.354	-8.800	-28.836	10.80	10.91	0.04	0.37	15.35	6	4
9.350	30.682	-8.900	-29.164	10.72	10.44	0.05	0.47	15.50	6	4
9.450	31.010	-9.000	-29.492	11.02	11.14	0.05	0.45	15.56	6	4
9.550	31.339	-9.100	-29.820	12.06	12.18	0.06	0.53	17.19	6	4

C

Run No: CS-0300-1230-5297
Cpt File: 721CP01.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev (ft)	Col-05 qt (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
9.250	30.347	-9.250	-30.347	10.64	10.76	0.05	0.46	51.71	6	4
9.350	30.675	-9.350	-30.675	11.91	12.51	0.06	0.46	40.61	6	4
9.450	31.004	-9.450	-31.004	11.53	13.74	0.07	0.47	34.20	6	4
9.550	31.332	-9.550	-31.332	11.64	12.84	0.06	0.47	38.04	6	4
9.650	31.660	-9.650	-31.660	12.84	11.25	0.06	0.45	40.07	6	4
9.750	31.988	-9.750	-31.988	12.95	11.37	0.06	0.45	45.54	5	4
9.850	32.316	-9.850	-32.316	10.61	10.83	0.05	0.41	48.20	6	4
9.950	32.644	-9.950	-32.644	10.64	10.58	0.04	0.37	52.29	6	4
10.050	32.972	-10.050	-32.972	10.95	11.20	0.05	0.45	53.28	6	4
10.150	33.300	-10.150	-33.300	10.91	10.76	0.04	0.37	53.63	6	4
10.250	33.628	-10.250	-33.628	10.12	10.39	0.05	0.49	55.03	6	4
10.350	33.956	-10.350	-33.956	10.99	11.26	0.05	0.40	55.37	6	4
10.450	34.284	-10.450	-34.284	10.88	11.22	0.04	0.36	55.31	5	4
10.550	34.612	-10.550	-34.612	10.53	10.85	0.04	0.32	52.63	5	4
10.650	34.941	-10.650	-34.941	11.17	11.64	0.05	0.39	55.97	5	4
10.750	35.269	-10.750	-35.269	11.34	11.50	0.05	0.44	55.33	5	4
10.850	35.597	-10.850	-35.597	11.30	11.44	0.05	0.39	56.72	5	4
10.950	35.925	-10.950	-35.925	11.40	11.94	0.05	0.38	56.73	5	4
11.050	36.253	-11.050	-36.253	11.59	11.81	0.05	0.38	57.93	6	4
11.150	36.581	-11.150	-36.581	11.51	11.90	0.05	0.38	60.34	6	4
11.250	36.909	-11.250	-36.909	11.79	12.28	0.05	0.37	62.51	6	4
11.350	37.237	-11.350	-37.237	11.40	12.75	0.04	0.34	63.76	6	4
11.450	37.565	-11.450	-37.565	12.56	12.95	0.08	0.62	62.14	6	4
11.550	37.894	-11.550	-37.894	21.51	21.75	0.08	0.32	40.50	7	5
11.650	38.222	-11.650	-38.222	12.67	12.90	0.07	0.50	49.06	6	4
11.750	38.550	-11.750	-38.550	10.57	10.97	0.04	0.39	72.15	6	4
11.850	38.878	-11.850	-38.878	10.19	10.55	0.06	0.57	76.15	6	4
11.950	39.206	-11.950	-39.206	16.74	17.73	0.04	0.24	[illegible]	7	5
12.050	39.534	-12.050	-39.534	14.76	14.59	0.07	0.41	49.55	6	4
12.150	39.862	-12.150	-39.862	13.47	13.93	0.05	0.38	71.09	6	4
12.250	40.190	-12.250	-40.190	12.14	12.48	0.04	0.32	71.79	6	4
12.350	40.518	-12.350	-40.518	11.07	11.40	0.04	0.35	75.05	6	4
12.450	40.846	-12.450	-40.846	11.48	11.82	0.04	0.35	72.06	6	4
12.550	41.174	-12.550	-41.174	14.62	14.96	0.05	0.33	75.73	6	4
12.650	41.502	-12.650	-41.502	15.45	16.76	0.09	0.54	66.57	6	4
12.750	41.830	-12.750	-41.830	16.15	16.15	0.14	0.86	53.32	6	4
12.850	42.158	-12.850	-42.158	11.09	17.32	0.10	0.16	45.64	6	4
12.950	42.486	-12.950	-42.486	12.11	12.62	0.08	0.50	50.48	6	4
13.050	42.814	-13.050	-42.814	12.49	12.73	0.07	0.55	71.43	5	4
13.150	43.143	-13.150	-43.143	13.10	13.46	0.07	0.52	78.55	6	4
13.250	43.471	-13.250	-43.471	15.54	16.16	0.13	0.90	46.55	5	4
13.350	43.799	-13.350	-43.799	18.14	18.46	0.18	0.95	48.68	4	4
13.450	44.127	-13.450	-44.127	30.32	31.03	0.32	1.21	44.04	1	4
13.550	44.455	-13.550	-44.455	65.52	65.92	0.91	1.35	-1.57	1	5
13.650	44.783	-13.650	-44.783	33.45	33.48	0.81	2.41	7.90	5	4
13.750	45.111	-13.750	-45.111	35.87	35.90	0.42	1.17	4.11	7	5
13.850	45.439	-13.850	-45.439	37.51	37.57	0.57	1.77	0.58	6	4
13.950	45.767	-13.950	-45.767	42.33	42.38	0.76	1.80	1.16	7	4
14.050	46.095	-14.050	-46.095	47.08	47.07	0.89	1.90	-3.46	7	4
14.150	46.423	-14.150	-46.423	48.84	49.91	1.06	2.10	-6.52	5	4
14.250	46.751	-14.250	-46.751	52.89	51.47	1.42	2.65	4.46	5	4
14.350	47.079	-14.350	-47.079	59.80	59.25	1.48	2.42	7.92	5	4
14.450	47.408	-14.450	-47.408	73.74	77.12	1.49	2.13	-6.01	7	5
14.550	47.736	-14.550	-47.736	103.11	101.25	1.71	1.66	-5.07	7	5
14.650	48.064	-14.650	-48.064	69.31	69.27	2.53	2.81	-6.90	6	4
14.750	48.392	-14.750	-48.392	85.76	85.73	3.89	4.54	7.40	11	4
14.850	48.720	-14.850	-48.720	70.81	70.25	4.09	5.75	0.07	11	3
14.950	49.048	-14.950	-49.048	87.24	87.24	3.88	4.45	0.21	11	4
15.050	49.376	-15.050	-49.376	99.56	99.55	3.59	3.71	-2.96	6	4
15.150	49.704	-15.150	-49.704	64.74	64.75	2.67	4.13	1.21	5	4

Run No CS-0108-1256-5207
CPT File 721CP01.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (kPa)	Col-07 fs (kPa)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
15.000	49.213	-15.250	-50.032	47.37	47.28	1.08	6.91	0.94	5	5
15.050	49.377	-15.300	-50.196	49.59	50.01	1.24	6.47	1.64	5	5
15.100	49.541	-15.350	-50.360	49.44	49.64	1.20	6.45	1.71	5	5
15.150	49.705	-15.400	-50.524	44.24	44.14	2.77	6.20	2.46	5	5
15.200	49.869	-15.450	-50.688	48.07	48.09	2.84	5.91	3.25	5	5
15.250	50.033	-15.500	-50.853	50.50	50.56	2.72	6.27	-3.39	11	5
15.300	50.197	-15.550	-51.017	54.65	54.64	2.67	4.51	-2.98	6	5
15.350	50.361	-15.600	-51.181	60.53	60.54	2.12	3.26	0.46	5	5
15.400	50.525	-15.650	-51.345	63.60	63.64	2.82	4.47	8.52	5	5
15.450	50.689	-15.700	-51.509	66.73	66.76	3.32	7.05	21.46	5	5
15.500	50.853	-15.750	-51.673	64.66	64.60	3.59	5.05	9.55	6	5
15.550	51.017	-15.800	-51.837	59.93	60.04	3.68	7.69	10.53	5	5
15.600	51.181	-15.850	-52.001	69.13	69.23	3.94	5.67	20.79	5	5
15.650	51.345	-15.900	-52.165	96.85	97.13	3.64	4.27	55.26	5	6
15.700	51.509	-15.950	-52.329	97.62	97.95	3.69	4.28	93.29	5	6
15.750	51.673	-16.000	-52.493	59.27	59.60	2.91	4.96	82.26	6	6
15.800	51.837	-16.050	-52.657	60.68	60.94	2.78	4.56	13.89	6	6
15.850	52.001	-16.100	-52.821	43.79	44.09	3.87	8.90	85.17	3	3
15.900	52.165	-16.150	-52.985	57.80	58.07	3.02	5.20	40.75	11	5
15.950	52.329	-16.200	-53.149	54.64	55.11	3.53	6.37	57.21	3	3
16.000	52.493	-16.250	-53.313	69.41	69.69	2.83	5.65	56.30	3	3
16.050	52.657	-16.300	-53.477	62.13	62.26	2.78	6.53	26.50	3	3
16.100	52.821	-16.350	-53.641	38.81	38.94	2.53	6.44	26.15	3	3
16.150	52.985	-16.400	-53.805	42.03	42.17	2.99	7.05	28.45	3	3
16.200	53.149	-16.450	-53.969	35.12	35.26	2.62	6.95	29.06	3	3
16.250	53.313	-16.500	-54.134	33.70	33.80	1.59	5.90	22.73	3	3
16.300	53.477	-16.550	-54.298	30.21	30.30	1.51	5.32	19.28	3	3
16.350	53.641	-16.600	-54.462	29.77	29.92	1.72	5.76	31.69	3	3
16.400	53.805	-16.650	-54.626	32.42	32.60	1.75	5.39	47.75	3	3
16.450	53.969	-16.700	-54.790	33.54	33.65	1.67	4.97	23.23	3	3
16.500	54.134	-16.750	-54.954	31.44	31.60	1.59	5.04	30.38	3	3
16.550	54.298	-16.800	-55.118	33.15	33.26	1.76	5.31	42.51	3	3
16.600	54.462	-16.850	-55.282	39.19	39.44	1.92	4.87	52.63	4	3
16.650	54.626	-16.900	-55.446	33.42	33.56	1.90	5.66	28.96	3	3
16.700	54.790	-16.950	-55.610	32.52	32.72	1.62	4.95	41.91	3	3
16.750	54.954	-17.000	-55.774	29.45	29.56	1.62	5.49	25.21	3	3
16.800	55.118	-17.050	-55.938	28.43	28.59	1.76	6.20	54.55	3	3
16.850	55.282	-17.100	-56.102	23.62	23.67	2.23	9.43	75.50	3	3
16.900	55.446	-17.150	-56.266	24.21	24.29	2.21	9.06	84.68	3	3
16.950	55.610	-17.200	-56.430	23.61	23.74	2.29	9.65	88.58	3	3
17.000	55.774	-17.250	-56.594	24.09	24.24	2.47	10.19	97.72	3	3
17.050	55.938	-17.300	-56.758	26.24	26.39	2.59	9.72	97.54	4	3
17.100	56.102	-17.350	-56.922	28.91	29.19	2.74	9.61	93.70	4	3
17.150	56.266	-17.400	-57.086	23.81	23.98	2.39	9.62	80.28	4	3
17.200	56.430	-17.450	-57.250	30.03	30.23	2.43	8.17	83.59	4	3
17.250	56.594	-17.500	-57.414	33.67	33.86	2.73	8.09	84.43	5	3
17.300	56.758	-17.550	-57.578	35.05	35.92	2.94	8.05	58.78	5	3
17.350	56.922	-17.600	-57.742	32.77	33.06	2.70	8.15	86.60	5	3
17.400	57.086	-17.650	-57.906	27.79	28.16	3.03	10.85	80.39	5	3
17.450	57.250	-17.700	-58.070	30.10	30.57	3.42	11.64	82.29	5	3
17.500	57.414	-17.750	-58.234	33.92	34.16	3.03	8.87	84.29	5	3
17.550	57.578	-17.800	-58.398	26.19	26.35	2.77	6.71	25.30	5	3
17.600	57.742	-17.850	-58.563	19.10	19.40	3.18	6.87	13.41	3	3
17.650	57.906	-17.900	-58.727	17.10	17.51	3.85	6.85	70.39	3	3
17.700	58.070	-17.950	-58.891	16.41	16.78	3.74	6.51	17.39	3	3
17.750	58.234	-18.000	-59.055	15.96	16.46	0.63	4.11	54.44	4	3
17.800	58.398	-18.050	-59.219	15.23	15.69	0.74	4.77	72.84	4	3
17.850	58.563	-18.100	-59.383	26.65	29.12	3.24	4.35	101.51	4	3
17.900	58.727	-18.150	-59.547	32.91	33.33	3.14	4.32	97.14	3	3
17.950	58.891	-18.200	-59.711	35.51	36.24	3.79	5.75	91.72	3	3

Run No [illegible]
CPT File [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
21.250	69.717	-21.250	-69.717	46.76	47.04	2.41	6.02	50.35	3	3
21.350	70.045	-21.350	-70.045	69.66	49.89	1.24	4.62	47.55	4	3
21.450	70.373	-21.450	-70.373	81.23	51.76	3.11	3.62	7.49	5	4
21.550	70.701	-21.550	-70.701	44.02	44.10	2.35	4.67	37.99	4	3
21.650	71.029	-21.650	-71.029	34.72	35.50	1.57	4.77	60.88	4	3
21.750	71.357	-21.750	-71.357	29.00	29.20	1.75	5.64	61.46	3	3
21.850	71.685	-21.850	-71.685	26.03	27.14	1.67	6.15	66.25	3	3
21.950	72.014	-21.950	-72.014	27.02	27.44	1.39	5.05	69.45	3	3
22.050	72.342	-22.050	-72.342	30.37	30.80	1.57	5.13	68.99	3	3
22.150	72.670	-22.150	-72.670	33.96	34.32	1.57	4.45	73.30	3	3
22.250	72.998	-22.250	-72.998	39.45	39.80	2.38	5.91	74.94	3	3
22.350	73.326	-22.350	-73.326	34.08	34.19	2.26	6.61	23.19	3	3
22.450	73.654	-22.450	-73.654	27.18	27.33	1.15	4.42	32.04	3	3
22.550	73.982	-22.550	-73.982	24.55	24.71	1.50	4.04	31.73	3	3
22.650	74.310	-22.650	-74.310	28.33	28.59	1.51	5.63	55.24	3	3
22.750	74.638	-22.750	-74.638	33.19	33.64	1.72	5.12	91.85	3	3
22.850	74.966	-22.850	-74.966	47.59	48.01	2.38	4.90	89.54	4	3
22.950	75.294	-22.950	-75.294	48.71	48.89	2.76	5.65	78.64	4	3
23.050	75.622	-23.050	-75.622	51.37	51.27	1.68	3.47	21.55	4	3
23.150	75.951	-23.150	-75.951	37.69	37.89	2.05	5.44	23.39	3	3
23.250	76.279	-23.250	-76.279	35.45	35.76	1.78	4.98	86.70	3	3
23.350	76.607	-23.350	-76.607	33.63	33.80	1.61	4.77	37.00	4	3
23.450	76.935	-23.450	-76.935	29.89	30.16	1.04	4.42	100.25	4	3
23.550	77.263	-23.550	-77.263	34.37	34.82	1.56	4.45	96.57	4	3
23.650	77.591	-23.650	-77.591	41.62	42.03	1.43	3.36	109.19	5	3
23.750	77.919	-23.750	-77.919	59.76	60.50	1.40	2.34	92.14	6	4
23.850	78.247	-23.850	-78.247	78.28	78.52	1.41	1.73	49.01	7	5
23.950	78.575	-23.950	-78.575	71.03	72.19	1.23	1.77	97.65	7	5
24.050	78.903	-24.050	-78.903	182.96	183.51	1.86	1.01	117.65	9	6
24.150	79.231	-24.150	-79.231	213.84	214.36	2.43	1.13	66.63	9	6
24.250	79.559	-24.250	-79.559	226.63	226.97	2.37	1.91	61.01	5	6
24.350	79.887	-24.350	-79.887	247.67	247.77	2.44	1.95	41.73	9	6
24.450	80.216	-24.450	-80.216	230.45	230.64	3.04	1.32	39.75	9	6
24.550	80.544	-24.550	-80.544	214.03	214.24	3.34	1.56	20.44	8	5
24.650	80.872	-24.650	-80.872	208.35	209.02	2.50	3.68	51.29	10	6

Interpretation Output - Release 1.22 Rev. A - Build 5 Format: SI (Imperial)

Run No: 05-0508-1758-5257
Job No: 05-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-B01
Location: Pigeon Point
Team: DE TUN AS167
CPT Date: 05/05/05
CPT Time: 08:57
CPT File: 721CP01.COR
Northing (ft): 0.000000
Easting (ft): 0.000000
Elevation (ft): 0.000000

Water Table (ft): 3.35 (SI: 1.0
Unit Weight of Water (default): 62.41 pcf
Averaging Increment (ft): 0.10
Su (kPa) used: 15 0% Su/P' incl: 0.25
Su Method : Davisolkowski - All Sands
Alpha Parameter N: 0.25
Hard Unit Weights Assigned to Soil Zones
Nkt(u) Calculated using qnet
Nkt(m) Calculated using qtmax

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-RO (Zone)	Col-13 SBT-RO (Zone)	Col-14 Term K (ft^2/s)	Col 15 Unit Wt (pcf)	Col 16 U Stress (tsf)	Col 17 U Stress (ksf)	Col 18 E Stress (ksf)	Col-19 Qt	Col-20 Nkt (q_net)
0.050	0.164	6	7	5.0E-05	111.6	0.009	0.000	0.009	2.00	5.1
0.100	0.492	6	7	5.0E-05	114.6	0.020	0.000	0.020	2.00	6.5
0.150	0.820	6	6	5.0E-05	111.6	0.036	0.000	0.036	2.00	6.7
0.200	1.148	6	6	5.0E-05	114.6	0.065	0.000	0.065	2.00	6.8
0.450	1.476	6	6	5.0E-05	114.6	0.084	0.000	0.084	2.00	7.5
0.500	1.804	6	6	5.0E-05	114.6	0.102	0.000	0.102	1.00	6.5
0.650	2.133	6	6	5.0E-05	111.6	0.121	0.000	0.121	1.00	7.8
0.750	2.461	6	6	5.0E-05	111.6	0.139	0.000	0.139	1.00	8.4
0.850	2.789	6	6	5.0E-05	111.6	0.157	0.000	0.157	1.00	8.1
0.950	3.117	6	6	5.0E-05	111.6	0.176	0.000	0.176	1.00	8.4
1.050	3.445	6	6	5.0E-05	111.6	0.194	0.000	0.194	1.00	10.6
1.150	3.773	6	6	5.0E-05	114.6	0.212	0.000	0.212	2.00	8.2
1.200	4.101	6	6	5.0E-05	114.6	0.231	0.000	0.231	2.00	8.6
1.350	4.429	6	6	5.0E-05	114.6	0.250	0.000	0.250	2.00	8.9
1.450	4.757	6	6	5.0E-05	114.6	0.269	0.000	0.269	1.93	7.5
1.550	5.085	6	5	5.0E-05	116.6	0.288	0.000	0.288	1.96	7.7
1.650	5.413	6	5	5.0E-05	114.6	0.306	0.000	0.306	1.91	7.6
1.750	5.741	7	6	5.0E-05	114.6	0.325	0.000	0.325	1.79	9.6
1.850	6.069	7	7	5.0E-05	116.6	0.344	0.000	0.344	1.70	11.9
1.950	6.398	6	5	5.0E-06	114.6	0.363	0.000	0.363	1.66	8.8
2.000	6.726	6	4	5.0E-06	114.6	0.382	0.001	0.382	1.67	7.1
2.150	7.054	5	4	5.0E-06	114.6	0.400	0.000	0.400	1.58	7.7
2.200	7.382	4	4	5.0E-06	117.7	0.420	0.000	0.419	1.54	9.4
2.350	7.710	5	4	5.0E-06	114.6	0.438	0.000	0.438	1.53	8.4
2.450	8.038	6	6	5.0E-06	114.6	0.457	0.000	0.457	1.46	7.5
2.500	8.366	6	6	5.0E-06	114.6	0.476	0.000	0.476	1.45	6.4
2.650	8.694	6	6	5.0E-06	114.6	0.495	0.000	0.495	1.42	7.7
2.750	9.022	7	6	5.0E-06	114.6	0.514	0.000	0.514	1.49	10.6
2.850	9.350	7	6	5.0E-06	114.6	0.533	0.000	0.533	1.37	8.8
2.950	9.678	6	6	5.0E-06	114.6	0.551	0.000	0.551	1.35	8.6
3.050	10.006	6	6	5.0E-06	114.6	0.570	0.000	0.570	1.32	10.3
3.150	10.335	6	6	5.0E-06	114.6	0.589	0.000	0.589	1.30	8.1

Run No: 06-0508-1258-5297
CMT File: 7215FC1.COR

Col 01 Depth (ft)	Col 02 Depth (ft)	Col-17 SBT-BQ (None)	Col-13 SBT-BQn (None)	Col-14 Perm-k (m/s^2)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 Q Stress (tsf)	Col-18 M Stress (tsf)	Col-19 Cn	Col 20 Qtn (None)
3.250	10.661	7	6	4.0E-05	114.6	0.609	0.000	0.605	1.22	9.5
3.300	10.991	6	6	1.0E-06	114.6	0.627	0.000	0.627	1.26	10.1
3.450	11.114	5	5	4.0E-07	114.6	0.645	0.010	0.635	1.25	9.1
3.500	11.647	6	5	5.0E-06	114.6	0.644	0.020	0.644	1.21	9.1
3.650	11.975	7	6	5.0E-05	114.6	0.683	0.040	0.652	1.24	8.9
3.750	12.301	6	5	5.0E-06	114.6	0.702	0.041	0.667	1.21	9.7
3.850	12.631	7	6	5.0E-05	114.6	0.720	0.051	0.678	1.22	10.9
3.950	12.959	8	6	5.0E-04	117.1	0.740	0.061	0.679	1.21	12.5
4.050	13.287	7	5	5.0E-07	114.6	0.759	0.071	0.687	1.21	11.0
4.150	13.615	7	5	5.0E-07	114.6	0.777	0.082	0.696	1.20	12.6
4.250	13.943	7	5	5.0E-07	114.6	0.796	0.092	0.704	1.19	12.5
4.350	14.271	6	5	5.0E-06	114.6	0.815	0.102	0.713	1.18	9.2
4.450	14.600	7	6	5.0E-05	114.6	0.834	0.112	0.721	1.15	9.0
4.550	14.928	6	5	5.0E-06	114.6	0.853	0.123	0.730	1.17	9.1
4.650	15.256	6	5	5.0E-07	114.6	0.872	0.133	0.739	1.16	9.1
4.750	15.584	6	5	5.0E-07	114.6	0.890	0.143	0.747	1.15	8.7
4.850	15.912	6	5	5.0E-06	114.6	0.909	0.153	0.756	1.14	8.9
4.950	16.240	7	5	5.0E-05	114.6	0.928	0.164	0.764	1.14	9.6
5.050	16.569	6	5	5.0E-06	114.6	0.947	0.174	0.773	1.14	8.5
5.150	16.897	6	6	5.0E-07	114.6	0.965	0.184	0.781	1.13	8.0
5.250	17.226	7	5	5.0E-06	117.7	0.984	0.194	0.790	1.13	9.3
5.350	17.552	6	5	5.0E-05	114.6	1.003	0.205	0.799	1.12	9.5
5.450	17.880	6	5	5.0E-06	117.7	1.003	0.215	0.788	1.11	8.3
5.550	18.208	5	5	5.0E-07	114.6	1.040	0.225	0.815	1.11	8.0
5.650	18.537	6	5	5.0E-05	114.6	1.060	0.235	0.825	1.10	8.0
5.750	18.865	6	6	5.0E-05	114.6	1.079	0.246	0.833	1.10	7.8
5.850	19.193	5	6	1.0E-07	111.4	1.098	0.256	0.842	1.09	6.3
5.950	19.521	5	6	1.0E-07	111.4	1.116	0.266	0.850	1.08	6.3
6.050	19.849	6	5	5.0E-05	114.6	1.135	0.276	0.858	1.08	8.1
6.150	20.177	6	6	5.0E-05	114.6	1.153	0.287	0.867	1.07	8.0
6.250	20.505	6	6	1.0E-05	114.6	1.172	0.297	0.875	1.07	8.7
6.350	20.833	6	6	1.0E-05	114.6	1.191	0.307	0.884	1.06	8.7
6.450	21.161	6	6	1.0E-05	114.6	1.210	0.317	0.892	1.06	8.5
6.550	21.489	6	6	1.0E-05	114.6	1.227	0.328	0.901	1.05	8.1
6.650	21.817	6	6	1.0E-05	114.6	1.247	0.338	0.910	1.05	8.3
6.750	22.145	6	6	1.0E-07	111.4	1.266	0.348	0.919	1.04	8.8
6.850	22.473	6	6	1.0E-07	111.4	1.284	0.358	0.926	1.04	8.7
6.950	22.802	6	6	1.0E-07	111.4	1.303	0.369	0.934	1.03	8.7
7.050	23.130	6	6	1.0E-07	111.4	1.321	0.379	0.942	1.03	8.2
7.150	23.458	5	6	1.0E-07	111.4	1.339	0.389	0.950	1.03	6.2
7.250	23.786	5	6	1.0E-07	111.4	1.357	0.399	0.958	1.02	6.0
7.350	24.114	6	6	5.0E-05	114.6	1.375	0.409	0.966	1.02	8.2
7.450	24.442	6	6	5.0E-05	114.6	1.395	0.420	0.975	1.01	8.1
7.550	24.770	6	6	5.0E-05	114.6	1.413	0.430	0.983	1.01	8.1
7.650	25.098	6	6	5.0E-05	114.6	1.432	0.440	0.992	1.00	8.0
7.750	25.426	6	6	5.0E-05	114.6	1.451	0.450	1.000	1.00	8.5
7.850	25.754	6	6	5.0E-05	114.6	1.470	0.461	1.009	1.00	8.7
7.950	26.082	6	6	5.0E-05	114.6	1.489	0.471	1.018	0.99	8.9
8.050	26.410	6	6	5.0E-05	114.6	1.507	0.481	1.026	0.99	8.7
8.150	26.739	6	6	5.0E-05	114.6	1.526	0.491	1.035	0.98	8.7
8.250	27.067	6	6	5.0E-05	114.6	1.545	0.502	1.043	0.98	8.9
8.350	27.395	6	6	5.0E-05	114.6	1.564	0.512	1.052	0.97	8.7
8.450	27.723	6	6	5.0E-05	114.6	1.582	0.522	1.060	0.97	8.7
8.550	28.051	6	6	5.0E-05	114.6	1.601	0.532	1.069	0.97	8.5
8.650	28.379	5	6	5.0E-05	114.6	1.620	0.543	1.077	0.96	8.2
8.750	28.707	5	6	5.0E-05	114.6	1.639	0.553	1.086	0.96	8.2
8.850	29.035	5	6	5.0E-05	114.6	1.658	0.563	1.095	0.96	8.2
8.950	29.363	5	6	5.0E-05	114.6	1.676	0.573	1.103	0.95	8.0
9.050	29.691	5	6	5.0E-05	114.6	1.695	0.584	1.112	0.95	8.1
9.150	30.019	5	6	5.0E-05	114.6	1.714	0.594	1.120	0.94	8.7

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Qtr File: V21C151.005

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 RHT-HQ (Zone)	Col-04 RHT-HQm (Zone)	Col-14 Perm-z (cm/s)	Col-15 Unic Wt (pcf)	Col-16 T Stress (psf)	Col-17 D Stress (psf)	Col-18 E Stress (psf)	Col-19 Cm	Col-20 NSR (m/dr)
3.290	10.547	5	4	3.0E-05	114.6	1.713	0.604	1.125	0.94	4.1
3.340	10.975	5	4	3.0E-05	114.6	1.752	0.614	1.137	0.94	4.6
3.430	11.004	5	4	3.0E-05	114.6	1.770	0.623	1.144	0.95	5.1
3.590	11.332	5	4	3.0E-05	114.6	1.799	0.635	1.164	0.95	4.5
3.690	11.660	5	4	3.0E-05	114.6	1.828	0.645	1.181	0.95	4.2
3.790	11.962	5	4	3.0E-05	114.6	1.827	0.655	1.172	0.97	4.1
3.890	12.316	5	4	3.0E-05	114.6	1.846	0.664	1.180	0.92	4.1
3.990	12.644	5	4	3.0E-05	114.6	1.864	0.675	1.189	0.92	4.2
10.090	12.972	5	4	3.0E-05	114.6	1.883	0.665	1.197	0.93	4.2
10.190	13.300	5	3	3.0E-05	114.6	1.902	0.695	1.206	0.93	4.1
10.290	13.628	5	3	3.0E-05	114.6	1.921	0.707	1.214	0.92	4.0
10.390	13.956	5	3	3.0E-05	114.6	1.940	0.717	1.223	0.93	4.1
10.490	14.284	5	3	3.0E-05	114.6	1.958	0.727	1.231	0.90	4.1
10.590	14.613	5	3	3.0E-05	114.6	1.977	0.737	1.240	0.90	4.2
10.690	14.941	5	4	3.0E-05	114.6	1.996	0.747	1.249	0.90	4.5
10.790	15.269	5	4	3.0E-05	114.6	2.015	0.756	1.257	0.89	4.4
10.890	15.597	5	3	3.0E-05	114.6	2.034	0.766	1.266	0.89	4.4
10.990	15.925	5	4	3.0E-05	114.6	2.052	0.776	1.274	0.89	4.3
11.090	16.253	5	4	3.0E-05	114.6	2.071	0.786	1.283	0.88	4.5
11.190	16.581	5	3	3.0E-05	114.6	2.090	0.795	1.291	0.88	4.5
11.290	16.909	5	3	3.0E-05	114.6	2.109	0.805	1.300	0.88	4.5
11.390	17.237	5	3	3.0E-05	114.6	2.128	0.815	1.308	0.87	4.5
11.490	17.565	5	4	3.0E-05	114.6	2.146	0.825	1.317	0.87	4.9
11.590	17.893	7	5	3.0E-04	117.7	2.165	0.840	1.325	0.87	7.0
11.690	18.222	6	4	3.0E-05	114.6	2.184	0.850	1.335	0.87	5.9
11.790	18.549	4	3	3.0E-05	114.6	2.203	0.860	1.343	0.86	4.7
11.890	18.877	4	3	3.0E-05	114.6	2.222	0.870	1.352	0.86	4.5
11.990	19.201	4	4	3.0E-05	117.7	2.241	0.882	1.360	0.86	5.4
12.090	19.534	4	4	3.0E-05	114.6	2.260	0.891	1.369	0.85	5.7
12.190	19.862	5	3	3.0E-05	114.6	2.279	0.901	1.378	0.85	4.5
12.290	20.190	5	3	3.0E-05	114.6	2.298	0.911	1.386	0.85	4.3
12.390	20.518	5	4	3.0E-05	114.6	2.317	0.922	1.395	0.85	5.1
12.490	20.846	5	4	3.0E-05	114.6	2.335	0.932	1.403	0.84	5.1
12.590	21.174	5	4	3.0E-05	114.6	2.354	0.942	1.412	0.84	5.7
12.690	21.502	5	4	3.0E-05	114.6	2.373	0.952	1.421	0.84	6.4
12.790	21.830	5	4	3.0E-05	114.6	2.392	0.963	1.429	0.84	6.3
12.890	22.158	5	4	3.0E-05	114.6	2.411	0.973	1.438	0.83	5.1
12.990	22.486	5	4	3.0E-05	114.6	2.429	0.983	1.446	0.83	4.6
13.090	22.814	5	3	3.0E-05	114.6	2.448	0.993	1.455	0.83	4.9
13.190	23.143	5	3	3.0E-05	114.6	2.467	1.004	1.463	0.83	5.2
13.290	23.471	5	4	3.0E-05	114.6	2.486	1.014	1.472	0.82	6.2
13.390	23.799	6	4	3.0E-05	114.6	2.505	1.024	1.480	0.82	7.1
13.490	24.127	7	5	3.0E-04	117.7	2.524	1.034	1.489	0.82	9.9
13.590	24.455	8	6	3.0E-04	117.7	2.543	1.045	1.498	0.82	21.0
13.690	24.783	7	5	3.0E-05	114.6	2.562	1.055	1.507	0.81	17.5
13.790	25.111	7	5	3.0E-04	117.7	2.581	1.065	1.515	0.81	11.5
13.890	25.439	7	5	3.0E-05	114.6	2.600	1.075	1.525	0.81	11.4
13.990	25.767	8	5	3.0E-04	117.7	2.619	1.085	1.534	0.81	13.5
14.090	26.095	8	5	3.0E-04	117.7	2.638	1.095	1.543	0.81	14.0
14.190	26.423	8	5	3.0E-05	114.6	2.657	1.105	1.551	0.80	18.7
14.290	26.751	8	5	3.0E-05	114.6	2.676	1.116	1.560	0.80	20.1
14.390	27.079	8	6	3.0E-05	114.6	2.695	1.127	1.569	0.80	27.9
14.490	27.408	8	6	3.0E-04	117.7	2.714	1.137	1.577	0.80	24.9
14.590	27.736	9	6	3.0E-04	117.7	2.733	1.147	1.586	0.79	22.9
14.690	28.064	9	6	3.0E-05	114.6	2.752	1.157	1.594	0.79	34.2
14.790	28.392	9	6	1.0E-15	110.5	2.771	1.167	1.603	0.79	82.1
14.890	28.720	9	6	1.0E-15	110.5	2.790	1.178	1.611	0.79	61.8
14.990	29.048	9	6	1.0E-15	110.5	2.809	1.188	1.620	0.79	81.6
15.090	29.376	9	6	5.0E-05	114.6	2.828	1.198	1.627	0.79	36.1
15.190	29.704	8	6	5.0E-04	117.6	2.846	1.208	1.636	0.78	31.0

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CPI File 2210701.LAS

Col 01 Depth (ft)	Col 02 Depth (ft)	Col-12 SST-EQ (Bars)	Col-13 SST-SOn (Bars)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (psi)	Col-17 U Stress (psi)	Col 18 E Stress (psi)	Col 19 Cn	Col-20 Dil (%/ft)
15.350	50.803	B	5	5.0E-08	111.4	3.073	1.219	1.664	0.70	15.2
15.450	50.963	B	5	5.0E-08	111.4	3.091	1.229	1.662	0.70	47.5
15.550	51.088	B	5	5.0E-08	111.4	3.109	1.239	1.671	0.70	47.5
15.650	51.314	B	5	5.0E-08	111.4	3.128	1.249	1.678	0.71	42.3
15.750	51.545	B	5	5.0E-08	111.4	3.146	1.260	1.686	0.71	46.1
15.850	51.673	B	5	1.0E-15	110.9	3.164	1.270	1.616	0.71	56.2
15.950	52.003	B	5	5.0E-07	114.6	3.905	1.280	1.906	0.77	54.9
15.950	52.329	B	5	5.0E-08	111.4	3.884	1.290	1.914	0.77	54.5
16.050	52.697	B	5	5.0E-08	111.4	3.923	1.301	1.722	0.77	41.8
16.150	52.985	B	5	5.0E-08	111.4	3.941	1.311	1.730	0.76	44.9
16.250	53.313	B	5	-9999.0	82.7	3.057	1.321	1.736	0.76	-2945.0
16.350	53.641	B	5	5.0E-08	111.4	3.973	1.331	1.745	0.76	35.3
16.450	53.969	B	5	5.0E-08	111.4	3.991	1.342	1.749	0.76	47.1
16.550	54.297	B	5	5.0E-08	114.6	4.110	1.352	1.758	0.75	27.3
16.650	54.625	B	5	5.0E-08	114.6	4.128	1.362	1.766	0.75	27.8
16.750	54.953	B	5	5.0E-07	114.6	4.147	1.373	1.775	0.75	37.1
16.850	55.281	B	5	5.0E-07	114.6	4.166	1.383	1.783	0.75	38.9
16.950	55.610	B	5	5.0E-08	111.4	4.185	1.393	1.792	0.75	43.2
17.050	55.938	B	6	1.0E-15	130.5	4.204	1.403	1.801	0.75	55.6
17.150	56.266	B	5	5.0E-08	111.4	4.224	1.413	1.811	0.74	52.8
17.250	56.594	B	5	5.0E-08	111.4	4.243	1.424	1.819	0.74	47.6
17.350	56.922	B	5	5.0E-07	111.4	4.262	1.434	1.827	0.74	45.8
17.450	57.250	B	5	5.0E-08	111.4	4.279	1.444	1.835	0.74	27.3
17.550	57.578	B	5	5.0E-08	111.4	4.297	1.454	1.843	0.74	45.4
17.650	57.906	B	5	5.0E-08	111.4	4.316	1.465	1.851	0.74	36.0
17.750	58.234	B	5	5.0E-08	111.4	4.334	1.475	1.859	0.73	33.4
17.850	58.562	B	4	5.0E-08	111.4	4.352	1.486	1.867	0.73	29.1
17.950	58.890	B	5	1.0E-08	111.4	4.370	1.496	1.875	0.73	28.1
18.050	59.218	B	5	5.0E-07	111.4	4.389	1.506	1.883	0.73	32.0
18.150	59.547	B	5	5.0E-08	111.4	4.407	1.516	1.891	0.73	32.2
18.250	59.875	B	5	5.0E-08	111.4	4.425	1.526	1.899	0.73	30.3
18.350	60.203	B	5	5.0E-08	111.4	4.444	1.536	1.907	0.72	31.5
18.450	60.531	B	5	5.0E-07	114.6	4.462	1.546	1.916	0.72	26.1
18.550	60.859	B	5	5.0E-08	111.4	4.481	1.557	1.924	0.72	32.1
18.650	61.187	B	5	5.0E-08	111.4	4.499	1.567	1.932	0.72	31.3
18.750	61.515	B	4	5.0E-08	111.4	4.517	1.577	1.940	0.72	29.5
18.850	61.843	B	4	5.0E-08	111.4	4.535	1.587	1.948	0.72	27.4
18.950	62.171	B	4	5.0E-08	111.4	4.554	1.598	1.956	0.72	28.7
19.050	62.499	B	4	5.0E-08	111.4	4.572	1.608	1.964	0.71	27.4
19.150	62.827	B	4	5.0E-08	111.4	4.590	1.618	1.972	0.71	28.6
19.250	63.156	B	4	5.0E-08	114.6	4.609	1.628	1.979	0.71	30.9
19.350	63.484	B	4	5.0E-07	114.6	4.628	1.639	1.987	0.71	34.5
19.450	63.812	B	4	5.0E-07	114.6	4.646	1.649	1.995	0.71	28.6
19.550	64.140	B	4	5.0E-07	114.6	4.665	1.659	2.003	0.71	29.8
19.650	64.468	B	5	5.0E-07	114.6	4.684	1.669	2.011	0.70	31.8
19.750	64.796	B	5	5.0E-08	111.4	4.702	1.680	2.020	0.70	32.6
19.850	65.124	B	5	5.0E-06	111.4	4.721	1.690	2.028	0.70	37.1
19.950	65.452	B	5	5.0E-06	111.4	4.739	1.700	2.036	0.70	31.7
20.050	65.780	B	4	5.0E-06	114.6	4.758	1.710	2.045	0.70	34.5
20.150	66.106	B	5	5.0E-07	111.4	4.776	1.721	2.053	0.70	33.5
20.250	66.434	B	5	5.0E-06	111.4	4.795	1.731	2.061	0.70	32.7
20.350	66.764	B	4	5.0E-06	111.4	4.813	1.741	2.070	0.69	26.9
20.450	67.092	B	4	5.0E-06	111.4	4.831	1.751	2.078	0.69	34.1
20.550	67.420	B	4	5.0E-06	111.4	4.850	1.762	2.086	0.69	34.1
20.650	67.749	B	4	5.0E-06	111.4	4.868	1.772	2.094	0.69	34.1
20.750	68.077	B	3	5.0E-07	114.6	4.887	1.782	2.103	0.69	31.5
20.850	68.405	B	4	5.0E-07	114.6	4.905	1.792	2.111	0.69	33.6
20.950	68.733	B	4	5.0E-07	114.6	4.924	1.803	2.120	0.69	33.6
21.050	69.061	B	5	5.0E-06	111.4	4.943	1.813	2.128	0.69	32.0
21.150	69.389	B	5	5.0E-06	111.4	4.961	1.823	2.136	0.69	29.9

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CPT File: 721CP01.COR

Col 01 Depth (m)	Col 02 Depth (ft)	Col-12 SBT EQ (Zone)	Col-13 SBT-EQn (Zone)	Col-14 Pore A (kPa)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 N Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 SAO (ft/ft²)
21.250	69.737	8	5	5.0E-04	131.4	3.979	1.831	2.166	0.58	19.3
21.350	70.065	8	5	5.0E-04	131.6	3.998	1.844	2.154	0.58	44.6
21.450	70.393	8	6	5.0E-04	131.6	4.017	1.856	2.161	0.58	35.1
21.550	70.721	8	5	5.0E-04	131.6	4.035	1.864	2.171	0.58	26.2
21.650	71.049	7	5	5.0E-04	131.6	4.054	1.873	2.180	0.58	22.3
21.750	71.357	7	5	5.0E-04	131.6	4.073	1.885	2.188	0.58	26.2
21.850	71.685	7	6	5.0E-04	131.6	4.091	1.895	2.196	0.57	26.0
21.950	72.014	7	6	5.0E-04	131.6	4.109	1.905	2.204	0.57	26.0
22.050	72.342	7	6	5.0E-04	131.6	4.127	1.915	2.212	0.57	25.8
22.150	72.670	7	5	5.0E-04	131.4	4.146	1.926	2.220	0.57	32.1
22.250	72.998	7	5	5.0E-04	131.4	4.164	1.936	2.228	0.57	38.1
22.350	73.326	7	6	5.0E-04	131.4	4.182	1.946	2.236	0.57	32.7
22.450	73.654	7	6	5.0E-04	131.4	4.201	1.956	2.244	0.57	26.2
22.550	73.982	7	6	5.0E-04	131.4	4.219	1.966	2.252	0.57	23.7
22.650	74.310	7	6	5.0E-04	131.4	4.237	1.977	2.260	0.57	27.4
22.750	74.638	7	6	5.0E-04	131.4	4.255	1.987	2.268	0.56	31.2
22.850	74.966	8	5	5.0E-04	131.6	4.274	1.997	2.277	0.56	30.9
22.950	75.294	8	5	5.0E-04	131.4	4.292	2.007	2.285	0.56	46.8
23.050	75.622	8	5	5.0E-04	131.6	4.311	2.016	2.293	0.56	24.5
23.150	75.951	7	6	5.0E-04	131.6	4.330	2.026	2.302	0.56	16.2
23.250	76.279	8	5	5.0E-04	131.6	4.348	2.036	2.310	0.56	14.7
23.350	76.607	7	6	5.0E-04	131.6	4.366	2.046	2.317	0.56	21.6
23.450	76.935	7	6	5.0E-04	131.6	4.385	2.056	2.325	0.56	39.4
23.550	77.263	7	5	5.0E-04	131.6	4.404	2.067	2.333	0.55	32.7
23.650	77.591	7	5	5.0E-04	131.6	4.423	2.077	2.341	0.55	26.5
23.750	77.919	8	5	5.0E-04	131.6	4.442	2.088	2.349	0.55	23.0
23.850	78.247	8	5	5.0E-04	131.7	4.461	2.098	2.357	0.55	25.1
23.950	78.575	8	5	5.0E-04	131.7	4.480	2.108	2.365	0.55	23.1
24.050	78.903	5	5	5.0E-04	131.6	4.500	2.120	2.373	0.55	35.5
24.150	79.231	5	5	5.0E-04	131.6	4.520	2.130	2.381	0.55	41.0
24.250	79.559	5	5	5.0E-04	131.6	4.540	2.141	2.389	0.55	43.1
24.350	79.887	10	6	5.0E-04	131.6	4.561	2.151	2.398	0.54	47.5
24.450	80.214	5	6	5.0E-04	131.6	4.581	2.161	2.406	0.54	44.2
24.550	80.544	9	6	5.0E-04	131.6	4.601	2.171	2.414	0.54	51.3
24.650	80.872	10	6	5.0E-04	131.6	4.622	2.182	2.422	0.54	49.4

Interpretation Output - Release 1.21 2d A - Build 5 Format: NGP Imperial

Job No: 01-0108-1256-3291

Set No: 01-721

Client: EngSymbex Consultants

Project Pigeon Point Landfill Wilmington, Delaware

Site CPT-05-001

Location Pigeon Point

Cone 20 TON A0157

CPT Date: 05/01/01

CPT Time: 15:57

CPT File: T01CP01.COR

Northing (ft): 1.0100010

Easting (ft): 1.0100010

Elevation (ft): 1.0100010

Water Table (ft): 3.35 (ft): 31.1

Unit Weight of Water (default): 62.40 pcf

Averaging Increment (ft): 0.10

At Not Used 35 BC Soil Index: C BC

Soil Method : Jamiolkowski - All Sands

Spare Parameter #: 1.20

Dense Unit Weights Assigned to Soil Zones

Strata Calculated Using qnet

Strata Calculated Using qtotal

Col-01 Depth (ft)	Col-02 Depth (m)	Col-03 N1(60) (blows/ft)	Col-04 N1(60)ncr (blows/ft)	Col-05 N1(60)fc (blows/ft)	Col-06 Cr	Col-07 Fr (%)	Col-08 Rf	Col-09 Ic	Col-10 Qtn	Col-11 Friction Zone
0.050	0.016	11.3	-1991.0	-9999.0	944.42	2.58	0.01	-1999.0	-9999.0	9
0.150	0.493	7.1	-1991.0	-9999.0	955.29	7.55	0.01	-1999.0	-9999.0	8
0.250	0.820	11.8	-1991.0	-9999.0	149.55	1.61	0.01	-1991.0	-9999.0	8
0.350	1.148	12.8	-1991.0	-9999.0	192.55	2.31	0.01	-1991.0	-9999.0	8
0.450	1.476	14.6	-1991.0	-9999.0	130.15	2.31	0.01	-1991.0	-9999.0	8
0.550	1.804	12.5	2.4	10.6	95.00	1.40	-0.01	2.17	99.1	5
0.650	2.111	11.7	2.1	10.5	66.77	3.35	-0.01	2.56	91.5	5
0.750	2.461	10.3	1.1	9.1	39.66	5.24	0.03	2.71	41.1	4
0.850	2.789	10.2	1.4	8.9	32.63	5.20	0.01	2.81	35.7	4
0.950	3.117	10.5	2.4	8.9	55.15	3.58	0.03	2.64	57.4	4
1.050	3.445	10.5	2.8	8.9	53.55	4.28	0.03	2.67	58.9	4
1.150	3.773	10.1	1.7	10.7	59.75	3.24	0.01	2.54	57.5	5
1.250	4.101	17.3	4.4	5.4	75.92	2.45	0.00	2.43	33.4	3
1.350	4.429	26.7	4.9	9.1	68.72	3.03	0.01	2.58	56.3	5
1.450	4.757	25.3	4.1	11.7	59.85	3.71	0.00	2.52	51.5	5
1.550	5.085	24.1	3.3	5.4	42.92	3.32	0.01	2.64	37.5	4
1.650	5.413	25.2	3.1	1.7	26.74	3.07	0.00	2.61	31.8	4
1.750	5.741	20.5	5.5	11.0	75.83	1.34	0.00	2.23	21.7	5
1.850	6.069	16.5	6.5	11.6	82.71	1.81	0.00	2.32	23.3	5
1.950	6.395	14.7	6.7	2.0	69.86	2.52	0.01	2.57	31.9	6
2.050	6.726	12.1	5.9	8.4	33.02	2.53	0.01	2.56	31.0	6
2.150	7.054	13.1	6.2	8.8	49.88	2.09	0.01	2.50	30.0	6
2.250	7.382	14.5	6.6	10.2	68.90	1.98	0.03	2.25	20.9	5
2.350	7.710	13.9	6.2	8.5	49.90	2.11	0.03	2.43	26.5	5
2.450	8.038	12.1	6.8	9.2	41.68	1.87	0.03	2.44	27.8	5
2.550	8.366	9.7	6.1	6.0	34.71	1.20	0.03	2.46	27.1	5
2.650	8.694	12.6	5.0	7.5	39.71	1.99	0.03	2.51	32.8	5
2.750	9.022	14.7	5.7	8.1	41.03	2.61	0.03	2.59	36.3	5
2.850	9.350	11.6	5.5	7.9	40.44	2.40	0.03	2.56	33.6	5
2.950	9.678	11.5	4.8	8.8	32.41	3.26	0.03	2.62	36.1	4
3.050	10.006	16.5	5.3	9.6	36.03	4.01	0.03	2.65	38.6	4
3.150	10.335	11.1	4.8	8.2	25.09	3.21	0.03	2.64	37.4	4

Run No: 05-0106-1236-5257
DDS File 7210701.DDS

Col-01 Depth (m)	Col-02 Depth (ft)	Col 03 Mi(ppm) (lb/ft)	Col-04 Mn(ppm) (lb/ft)	Col-05 Mi(ppm)e (lb/ft)	Col-06 Qt	Col-07 Fr (%)	Col-08 Hg	Col-09 Se	Col-10 YC (%)	Col-11 Sobuve (Mare)
1.210	28.663	12.8	6.5	8.5	41.72	2.15	0.01	2.52	31.7	5
1.150	28.971	13.1	6.5	8.7	34.44	2.12	0.02	2.60	35.2	5
1.450	21.319	9.8	7.9	4.4	14.20	2.98	0.05	2.66	41.6	4
1.350	11.647	9.5	6.2	5.5	23.64	2.44	0.02	2.64	41.4	4
1.450	11.975	10.1	5.5	5.5	31.65	2.21	0.01	2.62	36.6	5
1.750	12.302	9.5	4.4	6.6	23.30	2.79	0.01	2.68	35.5	5
1.150	12.631	13.1	6.7	6.1	41.25	1.54	0.00	2.47	25.1	5
1.950	12.959	15.0	3.8	10.5	55.89	1.68	0.00	2.31	72.1	5
1.250	13.287	15.7	6.6	6.1	28.52	4.22	0.00	2.72	42.2	4
1.350	13.615	15.1	5.5	7.9	27.27	4.15	0.00	2.74	42.1	4
1.250	13.943	14.0	5.4	7.7	26.75	3.86	0.00	2.73	41.5	4
1.350	14.271	30.9	5.1	7.1	25.74	1.02	-0.01	2.67	36.2	4
1.450	14.600	30.8	1.2	7.4	52.01	2.45	0.05	2.95	35.1	5
1.550	14.928	10.7	5.2	7.1	24.95	1.21	0.01	3.10	50.5	4
1.650	15.256	30.5	4.1	5.5	10.02	1.61	-0.01	1.23	47.1	4
1.750	15.584	10.1	4.5	6.5	23.15	2.75	-0.01	2.61	39.4	4
1.850	15.912	10.2	4.7	6.1	23.31	2.46	0.00	2.65	37.1	4
1.950	16.240	8.9	5.2	6.1	25.36	1.79	0.00	2.58	36.2	5
2.050	16.568	7.4	4.4	5.5	20.65	1.75	-0.01	2.43	35.8	5
2.150	16.896	6.5	3.8	3.4	12.05	1.05	-0.02	2.49	40.1	4
2.250	17.224	7.1	4.6	5.1	23.65	2.72	0.00	2.39	36.1	5
2.350	17.552	7.9	4.0	4.6	15.95	2.61	-0.01	2.45	27.5	5
2.450	17.880	7.1	4.5	5.1	21.35	2.42	0.01	2.79	5.0	5
2.550	18.208	5.6	3.1	3.7	14.78	2.58	0.01	2.52	31.5	5
2.650	18.537	4.7	2.8	3.1	12.25	2.35	0.01	2.51	31.9	5
2.750	18.865	4.2	2.5	2.8	10.31	2.28	0.01	2.52	31.7	5
2.850	19.193	4.4	2.4	2.6	9.52	2.24	0.01	2.54	32.4	5
2.950	19.521	4.7	-9999.0	-9999.0	9.26	2.25	0.01	-9999.0	-9999.0	5
3.050	19.849	4.8	2.5	2.1	12.29	0.14	0.01	2.41	26.7	5
3.150	20.177	4.2	2.5	2.8	10.59	0.27	0.01	2.52	31.9	5
3.250	20.505	4.3	2.7	2.9	10.25	0.66	0.01	2.68	33.0	4
3.350	20.833	5.1	3.3	3.4	12.80	0.44	-0.01	2.51	31.0	5
3.450	21.161	5.5	3.4	3.6	13.61	0.57	-0.01	2.57	31.6	5
3.550	21.489	4.9	3.0	3.3	12.15	0.41	-0.02	2.51	31.2	5
3.650	21.817	4.5	2.7	2.9	10.96	0.35	-0.01	2.46	27.1	5
3.750	22.145	5.0	2.9	3.0	9.47	0.23	0.00	2.53	33.1	5
3.850	22.473	4.8	2.5	2.5	9.13	0.20	0.00	2.60	36.5	4
3.950	22.802	4.5	2.5	2.6	9.27	0.23	0.00	2.54	32.5	5
4.050	23.130	4.5	2.5	2.6	9.31	0.23	0.00	2.53	32.3	5
4.150	23.458	4.4	-9999.0	-9999.0	8.89	0.19	-0.03	-9999.0	-9999.0	5
4.250	23.786	4.0	2.3	2.1	7.95	0.52	-0.01	2.79	43.1	4
4.350	24.114	4.3	2.4	2.9	10.04	0.11	0.00	2.51	30.8	5
4.450	24.442	4.1	2.3	2.6	9.57	0.18	0.00	2.60	34.1	4
4.550	24.770	4.1	2.3	2.6	9.40	0.49	-0.01	2.64	37.9	4
4.650	25.098	4.4	2.9	3.0	10.09	0.40	0.00	2.56	33.2	5
4.750	25.426	4.5	2.9	3.0	10.23	0.39	-0.01	2.55	32.7	5
4.850	25.754	4.7	3.2	2.9	10.45	0.47	0.02	2.60	35.4	4
4.950	26.082	4.8	3.1	3.0	10.96	0.54	-0.01	2.61	35.8	4
5.050	26.410	4.4	1.9	2.3	10.47	0.51	-0.01	2.62	36.4	4
5.150	26.739	4.2	2.1	2.7	9.42	0.62	0.01	2.69	40.2	4
5.250	27.067	4.8	3.4	3.0	10.71	0.67	0.00	2.66	38.2	4
5.350	27.395	4.6	3.4	2.9	10.29	0.79	0.02	2.70	40.4	4
5.450	27.723	4.5	3.2	2.8	10.09	0.68	0.00	2.65	37.8	4
5.550	28.051	4.8	3.2	3.2	10.64	0.46	-0.01	2.63	37.2	5
5.650	28.379	4.1	2.9	2.5	8.78	0.53	-0.01	2.70	40.3	4
5.750	28.707	4.0	2.5	2.4	8.49	0.44	0.01	2.68	39.5	4
5.850	29.035	4.0	2.3	2.4	8.65	0.45	0.02	2.68	39.6	4
5.950	29.363	3.8	2.3	2.3	7.94	0.51	0.01	2.70	42.3	4
6.050	29.691	4.0	3.1	2.4	8.80	0.13	0.01	2.71	41.0	4
6.150	30.019	4.4	3.2	2.6	9.34	0.26	0.01	2.63	36.1	4

Run No [illegible]
CPT File: [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 N1(60) (B/ft)	Col-04 [illegible] (b/ft)	Col-05 [illegible] (b/ft)	Col-06 CRR	Col-07 FS (%)	Col-08 Rf (%)	Col-09 Qc	Col-10 Fr (%)	Col-11 SBTn (Zone)
9.250	30.347	5.9	3.0	2.5	5.02	0.55	0.06	2.76	42.7	6
9.300	30.476	6.2	3.1	2.6	5.19	0.51	0.06	2.65	35.6	6
9.450	31.004	6.5	3.4	2.9	10.44	0.54	0.06	2.62	36.9	6
9.500	31.332	6.2	3.2	2.5	5.10	0.55	0.06	2.72	40.8	6
9.650	31.660	3.5	3.1	2.3	7.55	0.54	0.07	2.74	42.7	6
9.700	31.988	6.0	3.1	2.3	7.56	0.54	0.08	2.74	42.6	6
9.850	32.316	3.8	3.1	2.2	7.51	0.56	0.09	2.78	43.1	6
9.900	32.644	3.8	3.0	2.2	7.50	0.46	0.11	2.73	42.2	6
10.050	32.972	3.9	3.1	2.3	7.78	0.48	0.10	2.72	42.7	6
10.100	33.300	3.8	3.0	2.1	7.35	0.45	0.11	2.75	43.2	6
10.250	33.628	3.8	3.0	2.1	8.98	0.59	0.13	2.81	45.6	6
10.350	33.956	3.9	3.1	2.2	7.57	0.48	0.11	2.76	42.7	6
10.450	34.284	3.8	3.1	2.2	7.44	0.44	0.11	2.76	42.5	6
10.550	34.612	3.7	3.0	2.1	7.26	0.40	0.10	2.76	42.6	6
10.650	34.941	4.0	3.2	2.2	7.72	0.47	0.11	2.75	42.1	6
10.750	35.269	3.9	3.2	2.2	7.55	0.53	0.10	2.76	43.6	6
10.850	35.597	3.9	3.2	2.2	7.63	0.48	0.11	2.76	43.2	6
10.950	35.925	4.0	3.3	2.2	7.81	0.47	0.10	2.74	42.6	6
11.000	36.253	4.0	3.3	2.2	7.83	0.46	0.10	2.73	42.3	6
11.150	36.581	4.0	3.3	2.2	7.53	0.45	0.11	2.74	42.6	6
11.250	36.909	4.1	3.3	2.2	7.67	0.45	0.11	2.73	42.0	6
11.350	37.237	5.9	3.3	2.1	7.32	0.42	0.07	2.74	40.5	6
11.450	37.565	4.3	3.1	2.4	6.15	0.75	0.16	1.18	44.1	6
11.550	37.893	6.6	5.3	4.7	26.25	0.35	0.02	2.10	41.2	5
11.650	38.221	6.3	5.7	2.4	8.18	0.60	0.06	2.74	42.7	6
11.750	38.549	5.6	5.1	2.0	6.16	0.46	0.14	2.69	40.1	6
11.850	38.877	5.5	5.2	1.9	6.16	0.72	0.18	2.69	43.1	6
11.950	39.206	6.7	6.5	3.6	20.87	0.27	0.02	2.41	38.5	5
12.050	39.534	6.5	6.0	2.6	9.20	0.51	0.05	2.67	39.5	6
12.150	39.862	5.9	5.4	2.1	6.92	0.47	0.14	2.72	44.1	6
12.250	40.190	6.1	5.5	2.1	7.24	0.39	0.13	2.76	42.0	6
12.350	40.518	6.3	5.6	2.2	7.56	0.32	0.10	2.67	38.8	6
12.450	40.846	6.5	5.7	2.3	8.20	0.35	0.11	2.67	38.6	6
12.550	41.174	6.6	5.8	2.5	8.92	0.36	0.11	2.64	37.9	6
12.650	41.502	5.4	4.6	2.8	10.23	0.55	0.09	2.67	38.7	6
12.750	41.830	5.2	4.6	2.5	9.77	1.01	0.15	2.77	44.2	6
12.850	42.158	6.3	5.9	2.1	7.59	0.52	0.08	2.65	40.8	6
12.950	42.486	6.0	5.7	2.2	7.04	0.76	0.09	2.84	40.3	6
13.000	42.814	6.0	5.7	2.2	7.07	0.68	0.12	2.82	41.4	6
13.150	43.143	6.3	5.9	2.2	7.61	0.64	0.13	2.75	41.6	6
13.250	43.471	5.1	4.6	2.6	5.25	1.06	0.18	2.81	45.7	6
13.350	43.799	5.8	5.2	3.1	15.78	1.12	0.07	2.71	42.5	6
13.450	44.127	8.1	7.6	6.3	19.14	1.32	0.04	2.47	29.2	5
13.500	44.456	17.2	16.4	12.0	42.30	1.44	-0.02	2.23	19.5	5
13.650	44.784	10.6	9.2	5.9	20.53	1.63	-0.03	2.73	30.9	6
13.750	45.112	9.1	8.5	7.0	21.36	1.27	-0.01	2.47	26.8	5
13.850	45.439	11.7	9.1	7.7	22.53	1.91	-0.03	2.50	30.6	5
13.950	45.767	10.9	10.7	8.5	25.53	1.52	-0.03	2.48	27.8	5
14.050	46.095	12.1	11.3	9.3	26.80	2.01	-0.03	2.44	27.5	5
14.150	46.423	15.0	11.8	9.7	29.06	2.22	0.03	2.45	28.6	5
14.200	46.751	12.2	13.0	10.7	32.18	2.84	0.03	2.60	33.3	5
14.350	47.079	18.1	14.1	11.7	35.44	2.62	-0.02	2.43	27.1	5
14.450	47.408	19.8	17.6	14.1	47.55	2.26	-0.02	2.33	22.8	5
14.550	47.736	21.1	21.7	17.6	61.25	1.71	-0.02	2.14	18.9	5
14.650	48.064	21.1	20.5	16.5	54.24	2.52	-0.02	2.34	24.1	5
14.750	48.392	64.8	21.2	17.1	51.68	4.03	-0.02	2.53	33.1	5
14.800	48.720	53.3	19.5	12.1	42.05	5.02	-0.02	2.72	41.6	6
14.950	49.048	65.4	21.5	17.2	51.01	4.01	-0.01	2.59	33.7	5
15.050	49.375	23.8	23.5	20.2	59.01	1.02	-0.01	2.49	25.5	5
15.150	49.704	24.2	17.2	10.4	37.62	4.31	-0.02	2.65	37.5	6

Run No: 05-0108-1253-5.07
DAT File: V215F03.CDR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 N1(60) (b/ft)	Col-04 N1(60)in (b/ft)	Col-21 N1(60)cs (b/ft)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Fc	Col-28 FC (%)	Col-29 SBTnorm (Zone)
15.250	50.032	35.2	14.4	8.5	26.65	6.97	-0.01	1.19	52.1	6
15.350	50.360	39.7	15.1	8.7	28.35	6.87	-0.02	2.85	50.3	6
15.450	50.688	36.8	15.0	8.2	27.98	6.85	-0.03	2.85	51.1	6
15.550	51.016	32.6	13.6	7.5	24.56	6.72	-0.05	2.93	53.2	6
15.650	51.345	35.5	14.4	8.4	26.77	6.30	-0.05	2.87	50.3	6
15.750	51.673	41.1	17.2	10.1	32.64	6.70	0.02	2.82	47.1	6
15.850	52.001	26.7	15.3	8.5	30.70	4.73	0.03	1.76	43.2	6
15.950	52.329	29.7	12.4	7.0	21.96	5.68	-0.04	1.98	52.2	6
16.050	52.657	31.9	13.6	7.7	23.67	6.95	-0.03	2.24	54.4	6
16.150	52.985	34.1	14.7	8.3	25.21	7.57	-0.02	2.55	54.3	6
16.250	53.313	-9999.0	14.6	9.499.0	21.93	8.64	-0.02	1.50	58.1	5
16.350	53.641	29.1	13.2	7.5	21.21	8.31	-0.03	1.09	60.5	5
16.450	53.969	38.6	16.7	8.9	26.77	9.94	-0.02	2.96	49.5	6
16.550	54.297	31.6	15.8	8.9	30.72	6.51	0.01	2.35	47.9	6
16.650	54.625	29.9	15.0	8.9	31.01	6.53	0.01	2.75	51.8	6
16.750	54.953	28.6	16.6	9.9	31.81	6.61	0.02	2.74	52.1	6
16.850	55.281	25.1	15.9	9.6	32.71	6.80	-0.02	2.73	52.1	6
16.950	55.610	31.5	13.9	9.0	22.81	7.01	0.01	2.95	55.4	5
17.050	55.938	41.4	16.6	9.1	30.44	5.51	0.00	2.79	45.5	6
17.150	56.266	35.2	15.6	9.0	28.65	6.76	0.01	2.87	50.3	6
17.250	56.594	35.3	15.9	8.9	29.53	6.06	0.01	2.87	50.6	6
17.350	56.922	29.6	13.6	7.9	21.36	7.11	-0.02	2.96	57.2	5
17.450	57.250	27.6	12.9	6.5	19.43	7.01	-0.02	3.51	58.5	5
17.550	57.578	29.7	13.9	7.2	21.09	7.69	0.01	3.13	58.5	5
17.650	57.906	25.6	12.2	6.2	17.80	7.59	-0.02	3.06	62.5	5
17.750	58.234	23.7	11.2	5.7	16.39	6.55	0.03	3.14	63.1	5
17.850	58.562	21.2	10.5	5.2	14.63	7.20	0.03	3.10	65.7	5
17.950	58.890	20.9	10.2	5.1	14.16	6.65	0.02	3.06	64.3	5
18.050	59.218	22.7	10.8	5.4	15.51	6.01	-0.01	3.05	60.4	5
18.150	59.547	23.6	10.9	5.4	15.95	5.56	-0.03	3.10	59.4	5
18.250	59.875	22.8	10.4	5.1	14.86	5.66	-0.02	3.05	60.5	5
18.350	60.203	23.1	10.9	5.4	15.63	5.92	-0.01	3.02	60.2	5
18.450	60.531	18.2	10.1	6.1	19.76	5.36	-0.01	2.94	56.2	6
18.550	60.859	21.2	11.2	5.4	15.63	6.32	-0.02	3.06	61.5	5
18.650	61.187	22.6	10.9	5.2	15.12	5.56	-0.01	3.02	59.7	5
18.750	61.515	21.3	10.1	4.8	13.63	6.23	-0.03	3.09	64.7	5
18.850	61.843	15.6	9.6	4.5	12.86	5.25	-0.02	3.06	67.7	5
18.950	62.171	16.2	9.4	4.6	13.29	5.51	-0.04	3.15	66.6	5
19.050	62.499	16.7	9.6	4.9	13.60	5.15	-0.04	3.15	67.4	5
19.150	62.829	14.1	9.6	4.8	13.17	4.95	-0.04	3.17	70.6	5
19.250	63.156	8.5	8.3	3.8	10.77	4.05	-0.03	3.05	81.6	5
19.350	63.483	11.7	8.5	4.0	11.20	5.03	-0.03	3.09	84.8	4
19.450	63.812	13.2	9.8	4.5	12.76	5.27	-0.02	3.06	82.0	4
19.550	64.140	13.2	9.8	4.5	12.62	5.03	0.03	3.04	82.0	5
19.650	64.468	15.4	10.0	4.8	13.16	4.68	0.03	2.97	86.4	5
19.750	64.796	22.9	11.2	5.2	15.01	5.71	0.05	3.03	78.4	5
19.850	65.124	26.2	12.4	5.8	17.23	5.51	0.00	2.97	71.5	5
19.950	65.452	29.2	13.0	6.0	16.19	5.83	0.01	3.01	69.3	5
20.050	65.780	9.4	9.7	4.1	13.52	4.21	0.03	1.97	69.0	5
20.150	66.108	13.6	10.2	4.6	13.03	5.29	0.02	1.87	62.2	5
20.250	66.436	27.8	11.5	5.2	14.17	6.40	0.00	1.89	67.7	5
20.350	66.764	17.5	9.9	4.1	10.56	7.37	-0.01	3.22	74.9	5
20.450	67.092	12.5	8.1	3.2	7.46	7.57	0.01	3.36	84.0	4
20.550	67.421	11.6	7.2	2.8	6.54	6.27	0.03	3.32	82.9	5
20.650	67.749	11.1	6.9	2.6	6.16	5.36	0.05	3.44	86.2	5
20.750	68.077	7.2	6.7	2.5	5.97	5.36	0.07	3.51	81.2	5
20.850	68.405	6.7	7.4	2.9	7.47	4.10	0.06	3.21	74.0	5
20.950	68.733	12.8	9.8	4.2	11.88	4.33	0.05	3.36	82.9	5
21.050	69.061	21.9	11.2	4.8	13.82	5.56	0.04	3.05	64.8	5
21.150	69.389	22.5	10.9	4.7	12.76	5.62	0.02	3.12	67.1	5

Run No [illegible]
CPT File [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N1(60)Ic (b/ft)	Col-23 N1(60)Ic (b/ft)	Col-24 Qt	Col-25 Fs (%)	Col-26 Rq	Col-27 Ic	Col-28 FC (%)	Col-29 Zone (Zone)
21.250	69.737	26.8	13.5	5.5	17.27	6.47	0.00	3.03	50.1	3
21.350	70.045	30.4	19.6	9.2	30.59	4.51	-0.01	2.76	43.5	4
21.450	70.373	25.5	21.6	9.5	39.72	4.02	-0.02	2.65	37.7	4
21.550	70.701	19.1	13.7	6.5	15.45	5.14	-0.01	2.93	53.9	4
21.650	71.025	19.1	11.6	4.9	14.23	5.39	0.00	3.03	60.5	3
21.750	71.357	19.0	11.6	4.3	11.52	6.78	0.00	3.16	70.2	3
21.850	71.685	17.5	10.1	4.1	10.50	7.24	0.01	3.21	74.0	3
21.950	72.014	17.1	9.8	4.0	10.56	5.93	0.04	3.14	67.6	3
22.050	72.342	19.1	10.9	4.4	11.57	5.93	-0.01	3.11	66.4	3
22.150	72.670	22.1	11.7	4.9	13.59	6.21	0.02	3.08	64.3	3
22.250	72.998	25.5	11.1	5.6	15.39	6.63	0.02	3.05	61.9	3
22.350	73.326	22.3	12.2	4.8	11.42	7.53	-0.04	3.14	68.7	3
22.450	73.654	17.5	10.3	4.1	10.33	7.56	-0.04	3.23	75.4	3
22.550	73.982	15.8	9.6	3.7	9.10	7.31	-0.05	3.26	78.0	3
22.650	74.310	18.2	10.4	4.1	10.77	6.61	-0.01	3.14	71.3	3
22.750	74.638	21.4	11.9	4.6	12.56	5.67	0.04	3.03	64.3	3
22.850	74.956	20.3	14.9	6.2	19.23	5.44	0.02	2.93	54.1	4
22.950	75.294	21.7	15.5	5.5	19.32	5.15	-0.02	2.93	56.2	3
23.050	75.622	16.2	15.0	6.2	20.45	4.03	-0.03	2.83	47.5	4
23.150	75.951	23.9	12.7	5.1	14.34	8.14	-0.04	3.04	62.5	3
23.250	75.279	22.5	12.0	4.8	13.50	5.65	0.00	3.01	62.5	3
23.350	76.607	14.2	11.5	4.5	12.70	5.45	-0.03	3.03	63.5	3
23.450	76.935	12.7	10.5	4.0	11.17	5.17	0.04	3.12	65.6	3
23.550	77.263	14.3	11.6	4.5	13.03	5.14	0.57	3.05	61.6	3
23.650	77.591	11.3	12.7	5.1	16.05	3.76	0.04	2.39	52.4	4
23.750	77.919	13.0	16.0	6.5	23.62	2.53	-0.01	2.65	37.9	4
23.850	78.247	14.3	17.9	11.9	31.37	1.94	-0.01	2.32	23.3	5
23.950	78.573	15.0	19.6	11.0	28.65	1.81	0.01	2.33	23.8	5
24.050	78.903	20.8	34.8	23.1	79.23	1.04	0.01	1.87	9.7	6
24.150	79.231	24.5	40.4	26.7	83.77	1.16	0.00	1.85	9.3	6
24.250	79.559	28.1	41.6	27.4	97.65	0.93	0.00	1.77	7.5	6
24.350	79.887	30.6	43.3	29.6	100.92	1.00	0.00	1.77	7.4	6
24.450	80.216	28.4	43.9	28.9	93.43	1.14	0.00	1.86	9.9	6
24.550	80.544	30.9	42.0	27.5	65.23	1.59	-0.01	1.96	11.8	6
24.650	80.877	31.6	53.1	34.7	125.03	0.66	0.00	1.50	4.0	6

Interpretation Output - Release 1 22 Rev. A - Build 5 Format: NCR Imperial

Run No: 06 1308 1250 5297

Job No: 06-721

Client: GeoSystems Consultants

Project: Pigeon Point Landfill - Wilmington, Delaware

Area: PPL-04-001

Location: Pigeon Point

Cone: 20 TON AG157

CPT Date: 06/03/03

CPT Time: 08 57

CPT File: 721CP01.COR

Northing: N=1: 0.000000

Easting: E=1: 0.000000

Elevation E=1: 0.000000

Water Table (m): 3.35 (ft): 11.0

Unit Weight of Water (default): 62.40 pcf

Averaging Increment (m): 0.10

SL (Pt Used): 15.00 Su/P' (Nc): 0.30

Dr Method: Jamiolkowski - All Sands

State Parameter N: 1.20

Used Unit Weights Assigned to Soil Zones

Nkt's Calculated using qnet

Nb's Calculated using qbmod

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Dr (%)	Col-04 Su (deg)	Col-32 State Par.	Col-33 Su/p'	Col-34 Young's (tsf)	Col-35 Vs (ft/s)	Col-36 OCR
0.050	0.164	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.100	0.328	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.150	0.492	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.200	0.656	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.250	0.820	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.300	0.984	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.350	1.148	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.400	1.312	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.450	1.476	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.500	1.640	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.550	1.804	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.600	1.968	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.650	2.133	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.700	2.297	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.750	2.461	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.800	2.625	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.850	2.789	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.900	2.953	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
0.950	3.117	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.000	3.281	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.050	3.445	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.100	3.609	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.150	3.773	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.200	3.937	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.250	4.101	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.300	4.265	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.350	4.429	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.400	4.593	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.450	4.757	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.500	4.921	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.550	5.085	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.600	5.249	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.650	5.413	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.700	5.577	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.750	5.741	63.8	40.0	-0.19	3.178	79.5	1.645	10.0
1.800	5.905	46.3	42.0	-0.23	3.007	86.5	1.657	10.0
1.850	6.069	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.900	6.234	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
1.950	6.398	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
2.000	6.562	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
2.050	6.726	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.000	10.0
2.100	6.890	13.7	36.0	-0.19	3.652	74.0	1.332	10.0
2.150	7.054	45.9	40.0	-0.17	3.228	92.7	1959.0	1957.9
2.200	7.218	35.1	38.0	-0.20	3.696	90.1	1.469	10.0
2.250	7.382	31.2	38.0	-0.15	-9999.0	-9999.0	0.000	10.0
2.300	7.546	30.0	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.350	7.710	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.400	7.874	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.450	8.038	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.500	8.202	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.550	8.366	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.600	8.530	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.650	8.694	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.700	8.858	29.8	38.0	0.10	-9999.0	-9999.0	0.000	10.0
2.750	9.022	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.426	10.0
2.800	9.186	22.4	38.0	-0.19	-9999.0	-9999.0	1.426	10.0
2.850	9.350	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.191	10.0
2.900	9.514	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.206	10.0
2.950	9.679	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.186	10.0

Run No 01-0184-1258-5257
DPT File 1010PE1.DOR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Hr (s)	Col-04 Min (deg)	Col-05 Azimuth Max	Col-06 Ha/qt	Col-07 SoundE (us/f)	Col-08 Sw (us)	Col-09 GTR
1.350	10.653	35.1	36.0	-0.19	3.614	11.8	1.690	10.0
3.350	10.991	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.197	10.0
3.450	11.319	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.504	4.2
3.550	11.647	9999.0	9999.0	9999.0	9999.0	-9999.0	1.015	9.2
3.650	11.975	30.0	36.0	-0.15	-9999.0	-9999.0	1.274	10.0
3.750	12.303	-9999.0	-9999.0	9999.5	-9999.0	-9999.0	1.070	9.3
3.850	12.631	36.3	38.0	-0.14	3.551	100.7	1.847	17.0
3.950	12.959	45.0	48.0	-0.18	3.072	138.7	9999.0	-9999.0
4.050	13.287	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.307	10.0
4.150	13.615	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.265	10.0
4.250	13.943	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.256	10.0
4.350	14.271	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.225	10.0
4.450	14.600	30.4	36.0	-0.17	-9999.0	-9999.0	1.642	10.0
4.550	14.928	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.214	10.0
4.650	15.256	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.987	8.0
4.750	15.584	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.146	8.9
4.850	15.912	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.174	9.0
4.950	16.240	30.0	36.0	-0.11	-9999.0	-9999.0	1.292	10.0
5.050	16.568	30.0	36.0	-0.08	-9999.0	-9999.0	1.086	7.5
5.150	16.896	30.0	30.0	0.01	9999.0	9999.0	0.030	0.1
5.250	17.224	30.0	36.0	-0.03	9999.0	9999.0	-9999.0	-9999.0
5.350	17.552	30.0	36.0	0.00	-9999.0	-9999.0	1.053	7.1
5.450	17.880	30.0	36.0	0.02	-9999.0	9999.0	-9999.0	-9999.0
5.550	18.208	30.0	30.0	0.01	9999.0	9999.0	0.604	4.6
5.650	18.537	30.0	30.0	0.00	9999.0	9999.0	0.474	3.4
5.750	18.865	30.0	30.0	0.11	-9999.0	9999.0	0.402	2.6
5.850	19.193	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.557	2.6
5.950	19.521	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.526	2.3
6.050	19.849	30.0	30.0	0.15	1001.0	9999.0	0.705	3.4
6.150	20.177	30.0	30.0	0.12	9999.0	9999.0	0.605	2.7
6.250	20.505	30.0	30.0	0.05	-9999.0	9999.0	0.592	2.6
6.350	20.833	30.0	30.0	0.16	-9999.0	-9999.0	0.749	3.4
6.450	21.161	30.0	30.0	0.24	-9999.0	-9999.0	0.821	4.0
6.550	21.489	30.0	30.0	0.07	-9999.0	-9999.0	0.732	3.4
6.650	21.817	30.0	30.0	0.16	-9999.0	-9999.0	0.615	2.9
6.750	22.145	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.579	2.4
6.850	22.473	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.543	2.2
6.950	22.802	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.571	2.3
7.050	23.130	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.576	2.3
7.150	23.458	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.512	1.9
7.250	23.786	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.469	1.6
7.350	24.114	30.0	36.0	0.11	-9999.0	-9999.0	0.647	2.5
7.450	24.442	30.0	36.0	0.10	-9999.0	-9999.0	0.615	2.4
7.550	24.770	30.0	36.0	0.09	-9999.0	-9999.0	0.615	2.3
7.650	25.098	30.0	36.0	0.09	-9999.0	-9999.0	0.647	2.4
7.750	25.426	30.0	36.0	0.09	-9999.0	-9999.0	0.682	2.6
7.850	25.754	30.0	36.0	0.08	-9999.0	-9999.0	0.715	2.8
7.950	26.082	30.0	36.0	0.06	-9999.0	-9999.0	0.745	2.9
8.050	26.411	30.0	36.0	0.07	-9999.0	-9999.0	0.717	2.7
8.150	26.739	30.0	36.0	0.07	-9999.0	-9999.0	0.668	2.6
8.250	27.067	30.0	36.0	0.05	-9999.0	-9999.0	0.745	2.8
8.350	27.395	30.0	36.0	0.04	-9999.0	-9999.0	0.721	2.7
8.450	27.723	30.0	36.0	0.07	-9999.0	-9999.0	0.713	2.6
8.550	28.051	30.0	36.0	0.08	-9999.0	-9999.0	0.756	2.8
8.650	28.379	30.0	36.0	0.08	-9999.0	-9999.0	0.631	2.1
8.750	28.707	30.0	36.0	0.10	-9999.0	-9999.0	0.614	2.0
8.850	29.035	30.0	36.0	0.10	-9999.0	-9999.0	0.617	2.0
8.950	29.363	30.0	36.0	0.10	-9999.0	-9999.0	0.586	1.9
9.050	29.691	30.0	36.0	0.09	-9999.0	-9999.0	0.620	2.0
9.150	30.019	30.0	36.0	0.11	-9999.0	-9999.0	0.697	2.3

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CPT File 721CP01 COR

Col 01 Depth (m)	Col 02 Depth (ft)	Col 30 Dr (%)	Col 31 Phi (deg)	Col 32 State Ass	Col 33 Su/qL	Col 34 YoungE (tsf)	Col 35 Su (tsf)	Col 36 OCR
9.250	30.347	30.0	30.0	0.09	-9999.0	-9999.0	0.503	1.9
9.300	30.675	30.0	30.0	0.09	-9999.0	-9999.0	0.590	2.2
9.450	31.004	30.0	30.0	0.07	-9999.0	-9999.0	0.708	2.7
9.500	31.332	30.0	30.0	0.09	-9999.0	-9999.0	0.575	2.1
9.550	31.660	30.0	30.0	0.10	-9999.0	9999.0	0.614	1.9
9.700	31.988	30.0	30.0	0.10	-9999.0	-9999.0	0.621	1.9
9.850	32.316	30.0	30.0	0.10	9999.0	-9999.0	0.599	1.8
9.950	32.644	30.0	30.0	0.12	9999.0	-9999.0	0.501	1.5
10.050	32.972	30.0	30.0	0.11	-9999.0	-9999.0	0.521	1.6
10.150	33.300	30.0	30.0	0.12	-9999.0	-9999.0	0.591	1.7
10.250	33.628	30.0	30.0	0.11	-9999.0	-9999.0	0.556	1.6
10.350	33.956	30.0	30.0	0.12	-9999.0	-9999.0	0.621	1.8
10.450	34.284	30.0	30.0	0.12	-9999.0	-9999.0	0.611	1.7
10.550	34.612	30.0	30.0	0.13	-9999.0	-9999.0	0.691	1.9
10.650	34.941	30.0	30.0	0.12	-9999.0	-9999.0	0.643	1.8
10.750	35.269	30.0	30.0	0.11	-9999.0	-9999.0	0.637	1.8
10.850	35.597	30.0	30.0	0.12	-9999.0	-9999.0	0.627	1.7
10.950	35.925	30.0	30.0	0.12	-9999.0	-9999.0	0.646	1.8
11.050	36.253	30.0	30.0	0.12	9999.0	-9999.0	0.653	1.8
11.100	36.581	30.0	30.0	0.12	-9999.0	-9999.0	0.648	1.7
11.250	36.909	30.0	30.0	0.12	9999.0	9999.0	0.665	1.8
11.350	37.237	30.0	30.0	0.13	9999.0	9999.0	0.639	1.7
11.450	37.565	30.0	30.0	0.09	-9999.0	-9999.0	0.712	1.9
11.550	37.893	30.0	32.0	0.06	-9999.0	-9999.0	-9999.0	-9999.0
11.650	38.221	30.0	30.0	0.09	9999.0	9999.0	0.721	1.9
11.750	38.549	30.0	30.0	0.14	9999.0	9999.0	0.585	1.5
11.850	38.877	30.0	30.0	0.11	-9999.0	-9999.0	0.555	1.4
11.950	39.206	30.0	30.0	0.12	9999.0	-9999.0	-9999.0	-9999.0
12.050	39.534	30.0	30.0	0.09	-9999.0	9999.0	0.665	2.0
12.150	39.862	30.0	30.0	0.12	9999.0	9999.0	0.635	1.6
12.250	40.190	30.0	30.0	0.11	9999.0	9999.0	0.675	1.7
12.350	40.518	30.0	30.0	0.14	-9999.0	-9999.0	0.759	1.9
12.450	40.846	30.0	30.0	0.13	-9999.0	-9999.0	0.756	1.9
12.550	41.174	30.0	30.0	0.12	9999.0	-9999.0	0.840	2.2
12.650	41.502	30.0	30.0	0.07	9999.0	9999.0	0.653	2.0
12.750	41.830	30.0	30.0	0.04	-9999.0	-9999.0	0.636	2.0
12.850	42.158	30.0	30.0	0.07	-9999.0	-9999.0	0.729	1.8
12.950	42.486	30.0	30.0	0.09	-9999.0	-9999.0	0.674	1.6
13.050	42.814	30.0	30.0	0.10	9999.0	-9999.0	0.695	1.6
13.150	43.143	30.0	30.0	0.10	-9999.0	-9999.0	0.733	1.7
13.250	43.471	30.0	30.0	0.06	-9999.0	-9999.0	0.517	2.5
13.350	43.799	30.0	30.0	0.02	-9999.0	-9999.0	1.064	2.8
13.450	44.127	30.0	34.0	-0.05	-9999.0	-9999.0	-9999.0	5595.0
13.500	44.455	46.8	28.0	-0.14	3.025	159.4	-9999.0	-9999.0
13.650	44.783	30.0	24.0	-0.32	-9999.0	-9999.0	2.061	7.4
13.750	45.111	21.2	14.0	-0.06	-9999.0	9999.0	-9999.0	-9999.0
13.850	45.439	32.4	14.0	-0.10	-9999.0	9999.0	2.131	8.5
13.950	45.767	35.9	17.0	-0.12	3.770	159.4	9991.0	-9999.0
14.050	46.095	36.4	20.0	-0.15	3.504	169.6	-9991.0	-9999.0
14.150	46.423	39.8	24.0	-0.15	3.551	177.1	2.077	10.0
14.250	46.751	42.0	28.0	0.19	3.425	181.1	2.346	10.0
14.350	47.079	45.5	28.0	-0.19	5.329	191.3	3.911	10.0
14.450	47.408	52.9	38.0	-0.20	7.839	220.7	-9999.0	-9999.0
14.550	47.736	60.9	42.0	-0.20	2.490	257.6	-9999.0	9999.0
14.650	48.064	54.7	42.0	0.25	2.658	248.2	5.764	10.0
14.750	48.392	55.5	32.0	-0.35	2.745	237.6	-9999.0	-9999.0
14.850	48.720	49.9	28.0	-0.54	1.915	241.7	-9999.0	-9999.0
14.950	49.048	55.7	36.0	-0.19	2.710	226.5	-9999.0	-9999.0
15.050	49.376	59.5	40.0	-0.11	2.564	255.2	6.445	10.0
15.100	49.704	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	4.324	10.0

Run No.: CB-CPT-1153-5197
CPT File: 1153CP01.DGR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Qt (t)	Col-11 Rf (deg)	Col-12 Strain Par	Col-13 Ic (g)	Col-14 Density (kPa)	Col-15 Su (kPa)	Col-16 OCR
15.151	50.032	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.906	10.0
15.250	50.350	9999.0	9999.0	9095.0	9999.0	9999.0	3.161	10.0
15.450	50.688	9999.0	9999.0	9999.0	9999.0	9999.0	3.116	10.0
15.550	51.016	-9999.0	-9999.0	-9999.0	-9991.0	-9999.0	2.768	9.8
15.650	51.345	-9999.0	-9999.0	-9995.0	-9991.0	-9999.0	3.509	10.0
15.750	51.673	43.8	16.0	-0.03	3.056	215.4	-1099.0	9999.0
15.850	52.001	-9999.0	-9999.0	-9995.0	-9995.0	-9999.0	3.444	10.0
15.950	52.329	-9999.0	-9999.0	-9999.0	-9995.0	-9999.0	2.502	8.2
16.050	52.657	-9999.0	-9999.0	-9999.0	-9995.0	-9999.0	2.784	9.2
16.150	52.985	-9999.0	-9999.0	-9999.0	-9995.0	-9999.0	2.914	10.0
16.250	53.313	-9999.0	-9999.0	-9999.0	-9995.0	-9999.0	-9999.0	-9999.0
16.350	53.641	-9999.0	-9999.0	-9999.0	-9995.0	-9999.0	2.664	9.8
16.450	53.969	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.878	10.0
16.550	54.297	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.669	10.0
16.650	54.625	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.661	10.0
16.750	54.953	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.744	10.0
16.850	55.281	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.853	10.0
16.950	55.610	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.207	8.7
17.050	55.938	43.4	34.0	-0.38	3.959	212.2	-9999.0	-9999.0
17.150	56.266	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.459	10.0
17.250	56.594	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.696	10.0
17.350	56.922	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.600	7.8
17.450	57.250	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.377	6.8
17.550	57.578	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.551	7.7
17.650	57.906	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	2.155	5.9
17.750	58.234	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.031	5.2
17.850	58.562	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.757	3.8
17.950	58.890	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.710	4.2
18.050	59.218	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.947	4.5
18.150	59.547	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.010	5.0
18.250	59.875	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.879	4.5
18.350	60.203	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.957	4.9
18.450	60.531	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.198	6.4
18.550	60.859	-9999.0	-9999.0	-9999.0	9999.0	9999.0	2.206	6.5
18.650	61.187	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.968	4.6
18.750	61.515	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.736	9.0
18.850	61.843	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.673	3.6
18.950	62.171	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.961	2.6
19.050	62.499	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.393	2.7
19.150	62.827	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.367	2.6
19.250	63.155	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.472	2.8
19.350	63.483	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.484	1.8
19.450	63.812	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.599	3.6
19.550	64.140	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.714	3.6
19.650	64.468	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.036	4.6
19.750	64.796	-9999.0	-9999.0	9999.0	9999.0	9999.0	2.026	4.6
19.850	65.124	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.947	5.7
19.950	65.452	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.956	4.3
20.050	65.780	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.627	3.7
20.150	66.108	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.786	3.7
20.250	66.436	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.025	4.6
20.350	66.764	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.503	2.8
20.450	67.092	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.038	1.7
20.550	67.420	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.911	1.5
20.650	67.748	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.851	1.4
20.750	68.077	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.818	1.3
20.850	68.405	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.056	1.7
20.950	68.733	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.488	2.7
21.050	69.061	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.363	4.0
21.150	69.389	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.938	3.6

Run No: 05-0304-1258-5257
CPT File: 7310P01.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dr (%)	Col-31 Phi (deg)	Col-32 State Par	Col-33 Es/qt	Col-34 YoungE (tsf)	Col-35 Su (tsf)	Col-36 OCR
21.250	69.717	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.401	5.6
21.350	70.045	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	4.331	10.0
21.450	70.373	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	5.150	10.0
21.550	70.701	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.671	8.2
21.650	71.030	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.043	4.2
21.750	71.357	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.681	3.1
21.850	71.685	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.537	2.7
21.950	72.014	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.555	2.7
22.050	72.342	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.765	3.1
22.150	72.670	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.012	3.5
22.250	72.998	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.376	5.0
22.350	73.326	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	2.002	3.9
22.450	73.654	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.561	2.6
22.550	73.982	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.366	2.2
22.650	74.310	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.624	2.8
22.750	74.638	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.959	1.7
22.850	74.966	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.016	1.7
22.950	75.294	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.971	8.8
23.050	75.622	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.131	7.4
23.150	75.951	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.212	4.3
23.250	76.279	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.054	3.9
23.350	76.607	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.961	3.6
23.450	76.935	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.732	3.0
23.550	77.253	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.026	3.1
23.650	77.591	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.527	5.0
23.750	77.919	39.8	34.0	-0.11	-9999.0	-9999.0	3.704	5.2
23.850	78.247	47.4	36.0	-0.11	1.306	259.6	-9999.0	-9999.0
23.950	78.575	45.0	36.0	-0.12	3.446	245.4	-9999.0	-9999.0
24.050	78.903	71.6	44.0	-0.16	2.127	427.0	-9999.0	-9999.0
24.150	79.231	76.0	42.0	-0.19	2.205	472.4	-9999.0	-9999.0
24.250	79.559	77.6	42.0	-0.17	2.160	490.3	-9999.0	-9999.0
24.350	79.887	80.1	42.0	0.19	2.091	539.6	-9999.0	-9999.0
24.450	80.216	77.9	42.0	-0.21	2.151	496.6	-9999.0	-9999.0
24.550	80.544	75.5	42.0	-0.21	2.039	475.1	-9999.0	-9999.0
24.650	80.872	86.3	44.0	-0.17	2.105	451.7	-9999.0	-9999.0

Interpretation Output - Release 1.22 Rev. A - Build 5 Format: SCP Imperial

Run No: CPT-0108-1256-5417
Job No: 07-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-09-002
Location: Pigeon Point
Cone: 20 TON AB157
CPT Date: 05/03/93
CPT Time: 11:58
CPT File: T010P01.COR
Northing (m) 0.000000
Easting (m) 0.000000
Elevation (m) 0.000000

Water Table (m) 4.11 (ft) 20 1
Unit Weight of Water (default) 62.43 pcf
Averaging Increment (m): 0.10
Su Not Used: 15.00 Su/P' (min): 0.10
Dr Method : Jamiolkowski - All Sands
State Parameter Ψ: 1.29
Used Unit Weights Assigned to Soil Zones
Ic101c Calculated using qc1n
Ic102a Calculated using qc1ncs

Col 1a Depth (m)	Col 02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col 05 qc (tsf)	Col 06 qE (tsf)	Col 07 fs (tsf)	Col-08 FR (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	3.67	2.58	0.01	0.27	0.67	1	1
0.150	0.492	-0.150	-0.492	10.53	10.06	0.17	1.69	7.07	5	5
0.250	0.820	-0.250	-0.820	13.63	13.67	0.26	1.87	13.74	5	5
0.350	1.148	-0.350	-1.148	15.72	15.78	0.24	1.58	19.57	5	5
0.450	1.476	-0.450	-1.476	14.60	14.62	0.24	1.61	7.85	5	5
0.550	1.804	-0.550	-1.804	10.35	10.37	0.20	2.17	-0.13	5	5
0.650	2.132	-0.650	-2.132	7.05	7.06	0.15	2.13	-6.85	5	5
0.750	2.461	-0.750	-2.461	5.65	5.65	0.13	2.30	-11.07	5	5
0.850	2.789	-0.850	-2.789	12.11	12.10	0.16	1.24	-1.62	5	5
0.950	3.117	-0.950	-3.117	19.23	19.20	0.36	1.77	5.35	5	5
1.050	3.445	-1.050	-3.445	16.49	16.51	0.40	2.14	2.16	5	5
1.150	3.773	-1.150	-3.773	26.77	26.79	0.24	0.89	6.02	7	6
1.250	4.101	-1.250	-4.101	20.48	20.49	0.20	1.86	2.36	5	5
1.350	4.429	-1.350	-4.429	8.72	8.75	0.11	1.26	5.36	5	5
1.450	4.757	-1.450	-4.757	9.90	9.91	0.11	1.06	5.10	5	5
1.550	5.086	-1.550	-5.085	12.94	12.94	0.17	1.28	1.24	6	5
1.650	5.413	-1.650	-5.413	14.15	14.18	0.23	1.63	5.70	6	6
1.750	5.741	-1.750	-5.741	19.80	19.83	0.33	1.64	5.22	6	6
1.850	6.069	-1.850	-6.069	6.80	6.84	0.14	2.26	20.06	6	6
1.950	6.398	-1.950	-6.398	4.47	4.53	0.05	1.39	9.17	1	6
2.050	6.726	-2.050	-6.726	4.39	4.52	0.05	1.07	7.77	1	6
2.150	7.054	-2.150	-7.054	3.35	3.43	0.05	1.46	16.11	1	1
2.250	7.382	-2.250	-7.382	3.26	3.19	0.01	0.39	7.09	1	4
2.350	7.710	-2.350	-7.710	7.16	7.24	0.10	1.32	12.76	5	4
2.450	8.038	-2.450	-8.038	14.03	14.09	0.12	1.90	5.44	5	5
2.550	8.366	-2.550	-8.366	44.17	44.43	0.55	1.23	14.27	7	5
2.650	8.694	-2.650	-8.694	72.29	72.37	0.60	0.82	7.28	8	6
2.750	9.022	-2.750	-9.022	20.21	20.35	0.35	1.70	7.15	6	6
2.850	9.350	-2.850	-9.350	16.54	16.65	0.35	2.12	4.16	5	6
2.950	9.678	-2.950	-9.678	34.02	34.11	0.70	2.04	19.10	6	6
3.050	10.006	-3.050	-10.006	54.68	54.74	1.05	1.96	11.42	7	5
3.150	10.335	-3.150	-10.335	32.32	32.32	1.66	2.05	-0.39	6	5

Job No: 08-0306-1738-5617
CPT File: 7315P02.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	16.04	16.21	0.45	2.75	10.78	7	5
0.100	0.328	-0.100	-0.328	11.18	11.24	0.21	1.87	13.26	5	4
0.150	0.492	-0.150	-0.492	7.22	7.26	0.12	1.69	10.00	5	4
0.200	0.656	-0.200	-0.656	16.52	16.65	0.24	1.45	7.67	6	5
0.250	0.820	-0.250	-0.820	21.31	21.49	0.37	1.71	10.49	6	5
0.300	0.984	-0.300	-0.984	26.25	26.36	0.46	1.71	10.71	6	5
0.350	1.148	-0.350	-1.148	37.60	37.84	0.76	2.04	10.25	5	4
0.400	1.312	-0.400	-1.312	21.61	21.77	0.58	2.44	25.40	5	4
0.450	1.476	-0.450	-1.476	21.04	21.14	0.66	3.09	13.10	6	5
0.500	1.640	-0.500	-1.640	25.53	25.70	0.69	2.67	36.12	5	4
0.550	1.804	-0.550	-1.804	24.31	24.47	0.54	2.23	8.35	6	5
0.600	1.969	-0.600	-1.969	24.53	24.67	0.67	2.74	4.80	5	5
0.650	2.133	-0.650	-2.133	27.83	27.96	0.62	2.25	17.87	6	5
0.700	2.297	-0.700	-2.297	25.52	25.65	0.59	2.17	8.04	6	5
0.750	2.461	-0.750	-2.461	44.21	44.37	0.41	0.92	11.55	7	5
0.800	2.625	-0.800	-2.625	54.53	54.68	0.17	0.30	6.72	8	6
0.850	2.789	-0.850	-2.789	42.43	42.52	0.14	0.33	7.16	8	6
0.900	2.953	-0.900	-2.953	46.49	46.52	0.19	0.39	7.02	8	6
0.950	3.117	-0.950	-3.117	57.16	57.17	0.15	0.25	6.42	8	6
1.000	3.281	-1.000	-3.281	30.60	30.63	0.06	0.20	6.56	7	6
1.050	3.445	-1.050	-3.445	29.07	29.10	0.04	0.15	6.79	7	6
1.100	3.609	-1.100	-3.609	63.47	63.51	0.02	0.05	8.59	8	-9999.0
1.150	3.773	-1.150	-3.773	56.70	56.79	0.11	0.19	9.51	8	8
1.200	3.937	-1.200	-3.937	78.51	78.56	0.17	0.14	10.47	8	8
1.250	4.101	-1.250	-4.101	92.82	92.86	0.14	0.15	9.51	9	8
1.300	4.265	-1.300	-4.265	71.81	71.89	0.13	0.17	12.92	8	8
1.350	4.429	-1.350	-4.429	49.93	50.00	0.14	0.28	10.63	8	7
1.400	4.593	-1.400	-4.593	56.64	56.71	0.21	0.37	11.67	8	8
1.450	4.757	-1.450	-4.757	70.61	70.71	0.18	0.11	12.84	8	8
1.500	4.921	-1.500	-4.921	63.12	63.24	0.29	0.14	7.51	8	8
1.550	5.085	-1.550	-5.085	56.22	56.26	0.20	0.35	4.62	8	8
1.600	5.249	-1.600	-5.249	70.15	70.21	0.11	0.15	8.52	8	8
1.650	5.413	-1.650	-5.413	80.07	80.11	0.25	0.31	7.51	8	8
1.700	5.577	-1.700	-5.577	76.16	76.20	0.05	0.06	8.04	7	-9999.0
1.750	5.741	-1.750	-5.741	68.67	68.71	0.04	0.06	9.01	8	-9999.0
1.800	5.905	-1.800	-5.905	61.07	61.15	0.06	0.10	10.03	8	8
1.850	6.069	-1.850	-6.069	55.10	55.14	0.03	0.06	7.35	8	8
1.900	6.233	-1.900	-6.233	46.31	46.36	0.04	0.08	8.52	8	-9999.0
1.950	6.397	-1.950	-6.397	61.80	61.84	0.11	0.18	8.11	8	8
2.000	6.562	-2.000	-6.562	97.61	97.74	0.29	0.33	26.50	9	8
2.050	6.726	-2.050	-6.726	95.95	96.06	0.13	0.14	19.44	9	8
2.100	6.890	-2.100	-6.890	66.41	66.45	0.26	0.22	9.51	8	8
2.150	7.054	-2.150	-7.054	61.06	61.07	0.10	0.17	7.83	8	8
2.200	7.218	-2.200	-7.218	60.21	60.29	0.19	0.31	14.25	7	8
2.250	7.382	-2.250	-7.382	35.60	35.66	0.07	0.19	10.20	5	6
2.300	7.546	-2.300	-7.546	18.92	18.97	0.05	0.29	10.69	5	5
2.350	7.710	-2.350	-7.710	51.29	51.35	0.52	1.01	12.62	7	6
2.400	7.874	-2.400	-7.874	108.34	108.38	1.26	1.16	7.50	9	8
2.450	8.038	-2.450	-8.038	21.47	21.65	1.20	5.54	40.14	1	3
2.500	8.202	-2.500	-8.202	26.45	26.60	1.02	3.84	25.58	1	3
2.550	8.366	-2.550	-8.366	21.32	21.42	0.87	4.07	34.15	1	3
2.600	8.530	-2.600	-8.530	34.81	34.91	0.90	2.58	29.41	5	4
2.650	8.694	-2.650	-8.694	28.96	29.05	1.09	3.76	47.25	3	3
2.700	8.858	-2.700	-8.858	28.39	28.64	1.11	3.92	52.73	3	3
2.750	9.022	-2.750	-9.022	39.57	39.71	1.08	2.72	37.35	5	4
2.800	9.186	-2.800	-9.186	33.48	33.63	1.05	3.09	12.53	6	4
2.850	9.350	-2.850	-9.350	52.89	53.06	1.19	2.32	13.56	6	5
2.900	9.514	-2.900	-9.514	27.17	27.15	0.95	3.51	9.66	5	5
2.950	9.678	-2.950	-9.678	21.27	21.31	0.64	2.99	5.89	5	4
3.000	9.843	-3.000	-9.843	18.01	18.11	0.69	3.76	20.58	4	3

Run No: 06-0326-1253-5417
CPT File: 7215790.CPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col 09 u (ft)	Col 10 Sbt (Zone)	Col-11 Sbtn (Zone)
9.250	30.341	-9.250	-30.347	25.53	26.57	0.77	3.01	19.47	5	4
9.300	30.505	-9.300	-30.505	28.95	30.07	1.15	3.83	17.37	5	5
9.450	31.004	-9.450	-31.004	30.57	30.62	1.28	4.17	10.56	6	5
9.500	31.168	-9.500	-31.162	26.73	26.96	1.11	4.14	9.61	6	5
9.650	31.660	-9.650	-31.660	21.57	21.79	1.02	4.71	24.57	6	5
9.700	31.824	-9.700	-31.824	27.17	27.45	1.32	4.87	25.62	6	5
9.850	32.316	-9.850	-32.316	25.17	25.33	1.16	4.61	30.02	6	5
9.900	32.644	-9.900	-32.644	26.35	28.65	1.24	4.36	20.49	6	5
10.050	32.972	-10.050	-32.972	40.16	40.24	1.61	4.01	27.34	6	6
10.150	33.320	-10.150	-33.300	36.13	36.21	1.44	3.93	26.41	6	6
10.250	33.628	-10.250	-33.628	44.39	44.61	1.78	3.92	5.29	6	6
10.350	33.956	-10.350	-33.956	39.54	39.61	1.57	3.85	24.21	6	6
10.450	34.284	-10.450	-34.284	35.35	35.63	1.36	3.79	25.13	6	5
10.550	34.612	-10.550	-34.612	39.26	39.36	1.47	3.73	29.84	6	6
10.650	34.941	-10.650	-34.941	42.07	42.16	1.51	3.61	24.86	6	6
10.750	35.269	-10.750	-35.269	17.37	17.61	0.67	3.83	33.00	4	3
10.850	35.597	-10.850	-35.597	11.39	11.65	0.36	3.03	74.65	5	3
10.950	35.925	-10.950	-35.925	10.89	11.38	0.34	3.13	64.94	5	3
11.050	36.253	-11.050	-36.253	10.28	15.69	0.53	3.22	67.36	5	3
11.150	36.581	-11.150	-36.581	11.31	11.74	0.13	1.13	92.17	6	3
11.250	36.909	-11.250	-36.909	12.01	12.42	0.14	1.17	98.62	6	3
11.350	37.237	-11.350	-37.237	12.52	12.73	0.15	1.16	105.53	6	3
11.450	37.566	-11.450	-37.565	12.82	13.16	0.17	1.30	113.35	6	3
11.550	37.893	-11.550	-37.893	13.25	13.64	0.17	1.25	114.94	6	3
11.650	38.221	-11.650	-38.221	13.67	14.12	0.17	1.26	117.30	6	4
11.750	38.549	-11.750	-38.549	12.84	13.60	0.16	1.26	121.26	6	3
11.850	38.877	-11.850	-38.877	12.14	12.70	0.17	1.36	119.47	6	3
11.950	39.205	-11.950	-39.206	12.07	12.65	0.16	1.27	123.21	6	3
12.050	39.534	-12.050	-39.534	12.65	13.24	0.19	1.44	126.10	6	3
12.150	39.862	-12.150	-39.862	13.76	14.26	0.22	1.51	130.50	6	3
12.250	40.190	-12.250	-40.190	11.63	12.05	0.17	1.37	130.42	6	3
12.350	40.518	-12.350	-40.518	12.01	12.57	0.16	1.28	128.66	6	3
12.450	40.846	-12.450	-40.846	11.66	11.97	0.16	1.30	132.72	6	3
12.550	41.174	-12.550	-41.174	10.92	11.31	0.11	1.36	118.02	5	3
12.650	41.502	-12.650	-41.502	11.18	11.71	0.15	1.29	127.29	6	3
12.750	41.830	-12.750	-41.830	11.15	11.70	0.16	1.32	134.27	6	3
12.850	42.158	-12.850	-42.158	11.48	12.06	0.16	1.26	126.48	6	3
12.950	42.486	-12.950	-42.486	12.69	13.20	0.16	1.17	121.16	6	3
13.050	42.814	-13.050	-42.814	12.17	12.79	0.20	1.58	133.78	6	3
13.150	43.143	-13.150	-43.143	13.85	14.41	0.19	1.33	118.58	6	3
13.250	43.471	-13.250	-43.471	13.65	14.03	0.20	1.62	121.56	6	3
13.350	43.799	-13.350	-43.799	13.69	14.21	0.18	1.60	122.42	6	3
13.450	44.127	-13.450	-44.127	13.19	13.71	0.19	1.61	121.11	6	3
13.550	44.455	-13.550	-44.455	12.16	12.87	0.19	1.64	103.33	6	3
13.650	44.783	-13.650	-44.781	11.94	12.49	0.14	1.21	114.91	6	3
13.750	45.111	-13.750	-45.111	11.91	12.50	0.17	1.38	125.79	6	3
13.850	45.439	-13.850	-45.435	12.36	12.93	0.19	1.47	122.05	6	3
13.950	45.767	-13.950	-45.767	12.10	12.65	0.21	1.62	121.95	6	3
14.050	46.095	-14.050	-46.095	11.60	11.96	0.22	1.80	118.31	6	3
14.150	46.423	-14.150	-46.423	10.69	11.54	0.13	1.65	113.87	6	2
14.250	46.751	-14.250	-46.751	11.07	11.69	0.18	1.61	123.91	6	3
14.350	47.079	-14.350	-47.079	11.18	11.87	0.19	1.65	123.01	6	3
14.450	47.408	-14.450	-47.402	11.79	12.32	0.17	1.39	126.71	6	3
14.550	47.736	-14.550	-47.726	11.02	11.65	0.16	1.32	130.81	6	3
14.650	48.064	-14.650	-48.064	10.73	11.38	0.16	1.32	129.91	6	3
14.750	48.392	-14.750	-48.392	10.13	10.81	0.15	1.18	141.43	6	3
14.850	48.720	-14.850	-48.720	10.73	11.33	0.14	1.23	141.75	6	3
14.950	49.049	-14.950	-49.048	10.19	11.01	0.15	1.25	117.92	6	3
15.050	49.377	-15.050	-49.376	10.53	10.76	0.16	1.29	114.93	6	3
15.150	49.705	-15.150	-49.704	10.53	10.73	0.16	1.28	129.93	6	3

Sur No 05-0308-2256-5417
CPT File 712CP02.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (zone)	Col-11 SBTn (zone)
15.240	50.000	-15.240	-50.000	11.48	12.00	0.68	5.92	140.58	6	3
15.340	50.328	-15.340	-50.328	11.65	12.03	0.71	5.88	145.17	6	3
15.440	50.656	-15.440	-50.656	11.66	12.32	0.72	5.96	136.76	6	3
15.540	50.984	-15.540	-50.984	12.20	12.82	0.72	5.84	133.19	6	3
15.640	51.345	-15.640	-51.345	12.59	13.19	0.73	5.87	130.11	6	3
15.740	51.673	-15.740	-51.673	11.16	11.82	0.73	5.93	144.13	6	3
15.840	52.001	-15.840	-52.001	11.56	12.14	0.71	5.81	142.15	6	3
15.940	52.329	-15.940	-52.329	11.97	12.41	0.72	5.91	116.12	6	3
16.040	52.657	-16.040	-52.657	11.56	12.49	0.67	5.66	127.88	6	3
16.140	52.985	-16.140	-52.985	45.36	45.57	0.43	0.95	85.55	7	5
16.240	53.313	-16.240	-53.313	90.61	90.71	0.85	0.94	74.16	8	5
16.340	53.641	-16.340	-53.641	45.16	45.32	0.65	1.44	19.97	7	4
16.440	53.969	-16.440	-53.969	58.47	58.60	0.26	0.73	77.55	7	5
16.540	54.297	-16.540	-54.297	24.21	24.39	0.74	3.49	18.96	7	4
16.640	54.626	-16.640	-54.626	14.08	14.57	0.15	1.49	107.76	6	3
16.740	54.953	-16.740	-54.954	13.50	13.24	0.08	0.60	154.78	6	3
16.840	55.281	-16.840	-55.282	12.71	13.55	0.08	0.59	170.01	6	3
16.940	55.610	-16.940	-55.610	13.58	14.42	0.13	0.93	179.77	6	3
17.040	55.938	-17.040	-55.938	15.35	16.23	0.21	1.32	165.58	6	3
17.140	56.266	-17.140	-56.266	16.32	17.31	0.27	1.56	209.47	6	3
17.240	56.594	-17.240	-56.594	16.77	17.70	0.33	1.64	198.80	6	3
17.340	56.922	-17.340	-56.922	16.00	16.70	0.27	1.62	169.58	6	3
17.440	57.250	-17.440	-57.250	13.23	13.79	0.11	1.81	120.26	6	3
17.540	57.578	-17.540	-57.578	9.67	10.17	0.06	0.53	107.67	6	3
17.640	57.906	-17.640	-57.906	9.90	10.09	0.08	0.72	126.48	6	3
17.740	58.234	-17.740	-58.234	10.22	10.81	0.13	1.16	124.59	6	3
17.840	58.561	-17.840	-58.562	11.56	12.26	0.23	1.68	149.69	6	3
17.940	58.890	-17.940	-58.890	14.62	15.32	0.34	2.22	149.18	6	3
18.040	59.218	-18.040	-59.218	17.12	17.61	0.46	2.70	126.32	6	3
18.140	59.547	-18.140	-59.547	19.68	20.14	0.59	2.94	99.26	6	3
18.240	59.875	-18.240	-59.875	46.12	46.61	1.51	3.24	104.16	8	4
18.340	60.203	-18.340	-60.297	125.91	126.02	2.32	1.93	24.14	7	5
18.440	60.531	-18.440	-60.531	167.65	167.96	3.13	1.96	20.10	8	6
18.540	60.859	-18.540	-60.859	156.27	156.64	3.67	2.29	24.48	8	6
18.640	61.187	-18.640	-61.187	150.26	150.33	3.23	2.48	10.90	8	6
18.740	61.515	-18.740	-61.515	124.60	124.64	2.61	2.10	7.79	7	6
18.840	61.843	-18.840	-61.843	87.63	87.65	2.47	2.85	3.07	6	4
18.940	62.171	-18.940	-62.171	52.23	52.28	2.24	4.29	10.90	5	3
19.040	62.499	-19.040	-62.499	71.85	71.94	5.11	4.24	28.41	5	4
19.140	62.827	-19.140	-62.827	58.91	58.99	3.32	5.63	29.35	11	3
19.240	63.155	-19.240	-63.155	48.30	48.36	2.44	5.05	26.74	4	3
19.340	63.483	-19.340	-63.483	47.50	47.74	2.54	5.29	8.41	5	3
19.440	63.812	-19.440	-63.812	57.71	57.78	2.85	4.97	9.22	6	3
19.540	64.140	-19.540	-64.140	85.05	85.41	3.59	4.22	2.54	5	4
19.640	64.468	-19.640	-64.468	88.24	88.27	3.10	3.51	3.70	6	4
19.740	64.796	-19.740	-64.796	60.62	60.66	2.01	4.63	5.16	6	3
19.840	65.124	-19.840	-65.124	61.55	61.62	1.26	5.30	15.27	11	4
19.940	65.452	-19.940	-65.447	72.51	72.61	1.73	5.34	20.81	11	5
20.040	65.780	-20.040	-65.780	54.10	54.19	2.70	4.99	17.44	6	5
20.140	66.108	-20.140	-66.108	53.97	54.02	1.70	5.97	42.05	3	5
20.240	66.436	-20.240	-66.436	62.97	63.08	4.28	6.78	33.44	11	5
20.340	66.764	-20.340	-66.764	90.97	90.98	4.61	5.39	42.31	11	4
20.440	67.092	-20.440	-67.092	19.94	100.16	5.10	5.09	65.65	11	4
20.540	67.420	-20.540	-67.420	112.98	113.13	5.50	4.85	72.67	11	4
20.640	67.749	-20.640	-67.749	115.60	115.93	5.07	4.37	75.44	11	4
20.740	68.077	-20.740	-68.077	72.52	72.96	4.41	6.04	4.23	11	3
20.840	68.405	-20.840	-68.405	79.37	79.42	4.30	5.41	11.03	11	3
20.940	68.733	-20.940	-68.733	89.31	89.52	5.11	5.76	47.87	11	3
21.040	69.061	-21.040	-69.061	71.35	74.49	5.10	6.55	24.41	11	3
21.140	69.389	-21.140	-69.389	71.41	71.59	4.69	6.43	73.37	11	3

Sounding No: 25-0108-1250-5417
CPT Filename: 7115CP02.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 ΔQt (Count)	Col-11 SBTn (Zone)
21.250	69.717	-21.250	-69.717	71.16	71.14	4.50	6.31	37.20	14	3
21.350	70.045	-21.350	-70.045	64.45	64.55	4.13	6.39	28.45	11	3
21.450	70.373	-21.450	-70.373	67.74	67.85	4.51	6.16	35.15	11	3
21.550	70.701	-21.550	-70.701	65.37	66.04	3.94	5.95	104.68	13	3
21.650	71.029	-21.650	-71.029	58.19	65.61	4.24	6.39	69.09	13	3
21.750	71.357	-21.750	-71.357	75.15	75.17	4.74	6.24	216.63	13	3
21.850	71.686	-21.850	-71.685	75.53	75.16	4.84	6.38	68.95	13	3
21.950	72.014	-21.950	-72.014	83.33	83.71	5.15	6.31	77.51	13	3
22.050	72.342	-22.050	-72.342	60.08	60.10	4.14	6.80	3.07	21	3
22.150	72.670	-22.150	-72.670	63.05	63.08	3.10	7.20	5.75	1	1
22.250	72.998	-22.250	-72.998	30.66	30.72	1.74	5.66	11.11	1	1
22.350	73.326	-22.350	-73.326	28.14	28.25	1.41	5.06	21.28	1	1
22.450	73.654	-22.450	-73.654	29.10	29.25	1.25	4.32	23.59	4	2
22.550	73.982	-22.550	-73.982	30.95	31.10	1.37	4.32	32.15	4	2
22.650	74.310	-22.650	-74.310	32.48	32.64	1.44	4.42	32.92	4	2
22.750	74.638	-22.750	-74.638	32.23	32.39	1.31	4.26	36.78	4	2
22.850	74.964	-22.850	-74.955	32.39	32.57	1.42	4.56	39.37	4	2
22.950	75.294	-22.950	-75.294	31.40	31.58	1.43	4.10	27.07	3	2
23.050	75.622	-23.050	-75.622	29.70	29.83	1.30	4.36	27.15	4	2
23.150	75.951	-23.150	-75.951	28.47	28.14	1.28	4.27	37.35	4	2
23.250	76.279	-23.250	-76.279	35.04	35.24	1.19	3.09	12.51	3	2
23.350	76.607	-23.350	-76.607	36.35	36.58	1.37	3.40	49.07	3	2
23.450	76.935	-23.450	-76.935	35.91	35.26	1.40	3.62	29.77	3	2
23.550	77.263	-23.550	-77.263	33.71	33.92	1.25	3.17	34.46	3	2
23.650	77.591	-23.650	-77.591	33.19	33.48	1.13	4.01	44.39	3	2
23.750	77.919	-23.750	-77.919	36.20	36.66	1.36	4.37	50.54	4	2
23.850	78.247	-23.850	-78.247	35.16	35.52	1.69	5.26	33.59	3	2
23.950	78.575	-23.950	-78.575	33.16	33.37	1.34	5.23	49.96	3	2
24.050	78.903	-24.050	-78.903	34.02	34.31	1.35	5.09	91.96	3	2
24.150	79.231	-24.150	-79.231	38.65	38.93	1.34	4.97	98.64	3	2
24.250	79.559	-24.250	-79.559	40.73	41.02	2.61	6.13	62.26	3	2
24.350	79.887	-24.350	-79.887	26.45	26.61	2.12	8.19	69.61	3	2
24.450	80.216	-24.450	-80.216	25.74	25.93	1.91	5.10	56.71	3	2
24.550	80.544	-24.550	-80.544	33.79	34.12	2.01	6.05	70.64	3	2
24.650	80.872	-24.650	-80.872	32.71	32.97	1.85	5.65	59.53	3	2
24.750	81.200	-24.750	-81.200	24.21	24.35	1.60	6.57	8.81	3	2
24.850	81.528	-24.850	-81.528	21.17	21.43	1.14	5.33	23.34	2	2
24.950	81.856	-24.950	-81.856	19.26	19.52	1.01	5.13	54.94	2	1
25.050	82.184	-25.050	-82.184	20.63	20.95	1.02	4.91	67.50	2	1
25.150	82.512	-25.150	-82.512	22.20	22.55	1.14	5.05	67.55	3	2
25.250	82.840	-25.250	-82.840	26.10	26.43	1.37	5.20	71.59	3	2
25.350	83.168	-25.350	-83.168	28.42	28.68	1.74	6.06	33.65	3	2
25.450	83.496	-25.450	-83.496	29.21	29.95	1.71	5.71	31.15	3	2
25.550	83.824	-25.550	-83.824	27.95	28.12	1.66	5.90	34.50	3	2
25.650	84.153	-25.650	-84.153	25.24	25.95	1.53	5.89	24.53	3	2
25.750	84.481	-25.750	-84.481	24.56	24.90	1.38	5.60	23.50	3	2
25.850	84.809	-25.850	-84.809	25.94	26.13	1.35	5.18	40.83	3	2
25.950	85.137	-25.950	-85.137	27.53	27.27	1.45	5.46	51.32	3	2
26.050	85.465	-26.050	-85.465	26.34	27.51	1.62	5.89	41.51	2	1
26.150	85.793	-26.150	-85.793	29.12	29.58	1.70	5.78	51.34	3	1
26.250	86.121	-26.250	-86.121	32.73	32.50	1.60	5.04	97.09	3	2
26.350	86.449	-26.350	-86.449	32.48	32.84	1.81	5.51	75.13	3	2
26.450	86.777	-26.450	-86.777	33.05	33.25	2.01	5.57	64.02	3	2
26.550	87.105	-26.550	-87.105	31.17	31.34	1.95	6.16	35.71	3	2
26.650	87.433	-26.650	-87.433	32.05	32.43	1.69	5.19	78.16	3	2
26.750	87.761	-26.750	-87.761	35.71	36.13	2.05	5.69	98.95	3	2
26.850	88.089	-26.850	-88.089	19.81	49.25	2.44	5.09	52.84	3	2
26.950	88.418	-26.950	-88.418	26.66	35.86	2.32	6.36	33.47	3	2
27.050	88.746	-27.050	-88.746	53.24	52.20	2.63	5.04	71.13	4	2
27.150	89.074	-27.150	-89.074	45.58	45.80	2.53	6.19	47.04	3	2

Run No 05-0308-1256-5417
CPT File 701CP07.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
27.250	89.402	-27.250	-89.402	49.80	50.32	2.74	5.44	19.77	7	3
27.350	89.730	-27.350	-89.730	90.68	90.91	3.13	3.45	48.22	6	4
27.450	90.058	-27.450	-90.058	116.81	116.96	2.83	2.42	33.25	7	4
27.550	90.386	-27.550	-90.386	110.93	110.96	1.95	1.76	5.91	7	5
27.650	90.714	-27.650	-90.714	101.48	101.56	1.87	1.85	17.92	7	5
27.750	91.042	-27.750	-91.042	113.07	113.22	1.73	1.53	32.61	8	5
27.850	91.370	-27.850	-91.370	96.24	96.58	2.15	2.23	35.02	7	4
27.950	91.698	-27.950	-91.698	86.43	86.47	1.93	2.24	7.01	7	4
28.050	92.026	-28.050	-92.026	97.93	98.22	1.80	1.84	85.01	7	5
28.150	92.355	-28.150	-92.355	107.39	107.58	1.46	1.36	41.11	6	5
28.250	92.683	-28.250	-92.683	81.92	84.08	1.57	1.59	36.55	7	4
28.350	93.011	-28.350	-93.011	83.76	83.07	1.67	2.22	63.73	7	4
28.450	93.339	-28.450	-93.339	118.87	119.36	1.65	1.39	119.17	8	5
28.550	93.667	-28.550	-93.667	93.59	94.23	0.85	0.90	101.21	6	5

Interpretation Output - Release 1.32 Rev A - Build 5 Format SI: Imperial

Run No: 05-0103-1250-5617
Job No: 05 121
Client: OrbSystrd Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Sign CPT-04-302
Location: Pigeon Point
Cone 10 TON Adtl
CPT Date: 05/01/21
CPT Time: 13:58
CPT File: 701CP02.DOR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 1.000000

Water Table (m): 4.15 (ft) 29.2
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (m): 0.10
Zw Not Used: 25.01 Su/P' Incl: 0.30
Qt Method : Jamiolkowski All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Middle Calculated using qcin
Hatdua Calculated using qcInda

Col-01 Depth (m)	Col-02 Depth (ft)	Col-11 SBT-SZ (Zone)	Col-12 SBT-UGm (Zone)	Col-14 Press-k (psi/a)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Pissen (tsf)	Col-18 E Normex (tsf)	Col-19 Qt	Col-20 Nkt (tsf/-)
0.010	0.164	6	7	1.0E-07	111.4	0.009	0.000	0.009	2.00	1.8
0.150	0.492	5	7	1.0E-06	114.6	0.028	0.000	0.028	2.00	4.8
0.300	0.820	6	7	5.2E-06	114.6	0.046	0.000	0.046	2.01	6.5
0.350	1.148	6	7	6.0E-06	114.6	0.056	0.000	0.056	2.02	7.9
0.450	1.476	6	6	8.0E-06	114.6	0.084	0.000	0.084	2.03	9.8
0.550	1.804	6	6	9.8E-06	114.6	0.104	0.000	0.103	2.03	9.8
0.650	2.133	5	6	9.8E-07	114.6	0.102	0.000	0.102	2.02	9.5
0.750	2.461	5	6	9.8E-06	114.6	0.140	0.000	0.140	2.00	9.6
0.850	2.789	5	6	9.8E-06	114.6	0.159	0.000	0.159	2.00	9.6
0.950	3.117	5	6	9.8E-06	114.6	0.178	0.000	0.178	2.00	9.6
1.050	3.445	5	6	9.8E-06	114.6	0.197	0.000	0.197	2.00	9.9
1.150	3.773	7	6	9.8E-06	119.7	0.216	0.000	0.216	2.00	8.6
1.250	4.101	5	6	9.8E-06	114.6	0.235	0.000	0.235	2.00	9.0
1.350	4.429	5	6	9.8E-06	114.6	0.254	0.000	0.254	1.99	8.7
1.450	4.757	5	6	9.8E-06	114.6	0.273	0.000	0.273	1.99	8.7
1.550	5.085	6	6	9.8E-06	114.6	0.291	0.000	0.291	1.99	9.0
1.650	5.413	6	6	9.8E-06	114.6	0.310	0.000	0.310	1.99	9.4
1.750	5.741	6	6	9.8E-06	114.6	0.329	0.000	0.329	1.94	7.6
1.850	6.069	4	5	9.8E-07	114.6	0.348	0.000	0.348	1.90	3.9
1.950	6.398	4	6	1.0E-07	111.4	0.366	0.000	0.366	1.85	2.2
2.050	6.726	4	4	1.0E-07	111.4	0.385	0.000	0.385	1.81	2.0
2.150	7.054	3	3	1.0E-07	111.4	0.403	0.000	0.403	1.87	1.6
2.250	7.382	3	3	1.0E-07	111.4	0.421	0.000	0.421	1.84	1.5
2.350	7.710	5	5	9.8E-06	114.6	0.440	0.000	0.440	1.81	1.5
2.450	8.038	6	6	1.0E-05	114.6	0.456	0.000	0.456	1.68	0.4
2.550	8.365	6	6	1.0E-04	117.7	0.477	0.000	0.477	1.45	14.2
2.650	8.694	8	8	1.0E-03	120.5	0.497	0.000	0.497	1.42	17.3
2.750	9.022	6	6	1.0E-05	114.6	0.516	0.000	0.516	1.35	1.8
2.850	9.350	6	5	9.8E-06	111.6	0.535	0.000	0.535	1.37	3.0
2.950	9.678	7	6	9.8E-06	114.6	0.554	0.000	0.554	1.24	23.1
3.050	10.006	8	6	9.8E-04	117.7	0.573	0.000	0.573	1.12	21.6
3.150	10.334	7	6	9.8E-05	114.6	0.592	0.000	0.592	1.10	12.4

Run No: 95-0308-1256-5417
CPT File: 7210P07.CCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-13 SBT-PO (Zone)	Col-13 SBT-QCn (Zone)	Col-14 Perm-K (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Fn	Col-20 NTS (b/ft)
5.060	16.469	7	6	1.0E-04	117.7	0.611	0.000	0.611	1.26	13.6
5.190	16.991	5	5	5.0E-05	114.6	0.638	0.000	0.638	1.26	5.6
5.450	17.717	5	6	5.0E-05	114.6	0.669	0.000	0.669	1.24	7.5
5.580	18.647	6	6	5.0E-05	114.6	0.698	0.000	0.698	1.22	8.3
5.840	19.175	6	6	5.0E-05	114.6	0.567	0.000	0.601	1.21	8.2
5.970	19.601	7	6	5.0E-05	114.5	0.705	0.000	0.705	1.19	10.1
6.030	19.831	7	6	5.0E-06	114.5	0.724	0.000	0.724	1.18	10.2
6.150	19.959	6	5	5.0E-06	114.5	0.743	0.000	0.743	1.16	11.6
6.350	20.267	7	6	5.0E-05	114.5	0.762	0.000	0.762	1.15	11.9
6.480	20.618	6	5	5.0E-06	114.5	0.781	0.000	0.781	1.13	12.1
6.610	20.943	7	5	5.0E-05	114.6	0.799	0.000	0.799	1.12	9.1
6.730	21.271	7	5	5.0E-05	114.6	0.818	0.000	0.818	1.11	11.1
6.860	21.602	7	6	5.0E-05	114.6	0.837	0.000	0.837	1.09	10.5
6.990	21.928	7	5	5.0E-05	114.6	0.856	0.000	0.856	1.08	9.3
7.050	22.262	8	6	5.0E-06	117.7	0.875	0.000	0.875	1.07	14.1
7.240	22.586	8	6	5.0E-05	120.5	0.894	0.000	0.894	1.06	13.1
7.370	22.912	8	6	5.0E-05	120.5	0.914	0.000	0.914	1.05	13.2
7.500	23.240	8	6	5.0E-05	120.5	0.934	0.000	0.934	1.05	11.6
7.630	23.568	8	6	5.0E-05	120.5	0.954	0.000	0.954	1.02	13.1
7.760	23.896	7	5	5.0E-06	117.7	0.973	0.000	0.973	1.01	9.1
7.890	24.224	7	5	5.0E-06	117.7	0.993	0.000	0.993	1.00	9.1
8.020	24.552	6	6	5.0E-05	120.5	1.012	0.000	1.012	0.99	10.6
8.150	24.880	8	6	5.0E-05	120.5	1.032	0.000	1.032	0.98	13.1
8.280	25.208	8	6	5.0E-05	120.5	1.052	0.000	1.052	0.98	13.2
8.410	25.537	8	6	5.0E-05	120.5	1.072	0.000	1.072	0.97	13.2
8.540	25.865	8	6	5.0E-05	120.5	1.092	0.000	1.092	0.96	13.2
8.670	26.193	8	6	5.0E-05	120.5	1.112	0.000	1.112	0.95	13.2
8.800	26.521	8	6	5.0E-05	120.5	1.132	0.000	1.132	0.94	13.2
8.930	26.849	8	6	5.0E-05	120.5	1.152	0.000	1.152	0.93	13.2
9.060	27.177	8	6	5.0E-05	120.5	1.172	0.000	1.172	0.92	13.2
9.190	27.505	8	6	5.0E-05	120.5	1.191	0.000	1.192	0.92	13.2
9.320	27.833	8	6	5.0E-05	120.5	1.211	0.000	1.212	0.92	13.2
9.450	28.161	8	6	5.0E-05	120.5	1.231	0.000	1.232	0.91	13.2
9.580	28.489	8	6	5.0E-05	120.5	1.251	0.000	1.252	0.91	13.2
9.650	28.817	8	6	5.0E-05	120.5	1.271	0.000	1.272	0.91	13.2
9.780	29.144	8	6	5.0E-05	120.5	1.291	0.000	1.292	0.90	13.2
9.910	29.472	8	6	5.0E-05	120.5	1.311	0.000	1.312	0.90	13.2
9.969	29.800	8	6	5.0E-05	120.5	1.331	0.000	1.332	0.89	13.2
10.040	30.128	8	6	5.0E-05	120.5	1.351	0.000	1.352	0.89	13.2
10.170	30.456	8	6	5.0E-05	120.5	1.371	0.000	1.372	0.89	13.2
10.240	30.784	8	6	5.0E-05	120.5	1.391	0.000	1.392	0.88	13.2
10.350	31.104	8	6	5.0E-05	120.5	1.411	0.000	1.412	0.88	13.2
10.440	31.447	8	6	5.0E-05	120.5	1.431	0.000	1.432	0.88	13.2
10.570	31.775	8	6	5.0E-05	120.5	1.451	0.000	1.452	0.87	13.2
10.630	32.037	7	5	5.0E-06	114.5	1.470	0.000	1.472	0.87	10.1
10.760	32.424	6	5	5.0E-06	114.5	1.489	0.000	1.492	0.87	9.2
10.890	32.752	8	6	5.0E-05	117.7	1.508	0.000	1.512	0.87	14.4
10.960	33.080	8	6	5.0E-05	120.5	1.527	0.000	1.532	0.86	13.5
11.090	33.410	6	5	5.0E-06	114.5	1.546	0.000	1.552	0.86	10.6
11.150	33.739	7	5	5.0E-05	114.6	1.566	0.000	1.572	0.86	12.1
11.280	34.067	6	5	5.0E-06	114.6	1.586	0.000	1.592	0.85	11.2
11.410	34.395	7	5	5.0E-05	114.6	1.606	0.000	1.612	0.85	13.4
11.540	34.723	6	5	5.0E-06	114.6	1.626	0.000	1.632	0.85	11.3
11.550	35.051	6	5	5.0E-06	114.6	1.646	0.000	1.652	0.85	10.7
11.680	35.379	7	5	5.0E-05	114.6	1.666	0.000	1.672	0.84	12.2
11.760	35.707	8	5	5.0E-06	114.6	1.686	0.000	1.692	0.84	15.1
11.840	36.035	7	5	5.0E-06	114.6	1.706	0.000	1.712	0.84	10.3
11.950	36.363	7	5	5.0E-06	114.6	1.715	0.000	1.729	0.83	13.0
12.050	36.691	7	6	5.0E-06	114.6	1.734	0.000	1.750	0.83	13.2
12.150	37.019	6	6	5.0E-07	114.6	1.753	0.000	1.446	0.82	11.6

Hole No: CS-0108-1250-5417
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Col 01 Depth (m)	Col 02 Depth (ft)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQ (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Resist (tsf)	Col-17 V Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 Nkt (b/fc)
1.240	10.169	7	5	5.0E-06	114.6	1.771	0.113	1.455	0.83	12.3
1.390	10.579	7	5	1.0E-06	114.6	1.790	0.127	1.413	0.81	14.4
1.490	11.004	7	5	1.0E-07	114.6	1.809	0.137	1.472	0.80	14.5
1.590	11.332	7	5	5.0E-07	114.6	1.828	0.148	1.480	0.82	17.1
1.690	11.660	6	5	5.0E-07	114.6	1.847	0.158	1.489	0.82	15.2
1.790	11.989	7	5	5.0E-07	114.6	1.865	0.168	1.497	0.82	17.5
1.890	12.316	7	5	5.0E-07	114.6	1.884	0.178	1.506	0.81	16.1
1.990	12.644	7	5	5.0E-07	114.6	1.903	0.188	1.515	0.81	18.5
15.090	12.972	8	5	5.0E-06	114.6	1.922	0.199	1.523	0.81	13.5
15.190	13.302	7	5	5.0E-06	114.6	1.941	0.209	1.532	0.81	17.5
15.290	13.628	6	5	5.0E-05	114.6	1.959	0.219	1.540	0.80	12.1
15.390	13.956	6	5	5.0E-05	114.6	1.978	0.230	1.549	0.80	11.8
15.490	14.284	7	5	5.0E-05	114.6	1.997	0.240	1.557	0.80	17.1
15.590	14.612	6	5	5.0E-05	114.6	2.016	0.250	1.566	0.80	10.8
15.690	14.941	8	5	5.0E-05	114.6	2.035	0.260	1.574	0.80	20.2
15.790	15.269	6	4	5.0E-07	114.6	2.053	0.270	1.583	0.79	13.2
15.890	15.597	6	3	5.0E-06	114.6	2.072	0.281	1.591	0.79	5.6
15.990	15.925	4	3	5.0E-05	114.6	2.091	0.291	1.600	0.79	4.4
16.090	16.253	6	3	5.0E-06	114.6	2.110	0.301	1.609	0.79	5.1
16.190	16.581	4	3	5.0E-05	114.6	2.129	0.311	1.617	0.79	4.5
16.290	16.909	6	3	5.0E-05	114.6	2.147	0.322	1.626	0.78	6.5
16.390	17.237	6	3	5.0E-05	114.6	2.166	0.332	1.634	0.78	6.9
16.490	17.565	6	3	5.0E-05	114.6	2.185	0.342	1.643	0.78	6.9
16.590	17.893	6	3	5.0E-05	114.6	2.204	0.352	1.651	0.78	6.2
16.690	18.221	6	3	5.0E-05	114.6	2.223	0.363	1.660	0.78	6.6
16.790	18.549	6	3	5.0E-05	114.6	2.241	0.373	1.668	0.77	6.3
16.890	18.877	6	3	5.0E-05	114.6	2.260	0.383	1.677	0.77	6.9
16.990	19.206	6	3	5.0E-05	114.6	2.279	0.393	1.686	0.77	6.8
17.090	19.534	6	3	5.0E-05	114.6	2.298	0.404	1.694	0.77	5.3
17.190	19.862	6	3	5.0E-05	114.6	2.317	0.414	1.703	0.77	5.5
17.290	20.190	6	3	5.0E-06	114.6	2.335	0.424	1.711	0.76	5.6
17.390	20.518	6	3	5.0E-05	114.6	2.354	0.434	1.719	0.76	6.6
17.490	20.846	6	3	5.0E-05	114.6	2.373	0.444	1.728	0.76	6.5
17.590	21.174	6	3	5.0E-06	114.6	2.392	0.455	1.737	0.76	5.5
17.690	21.502	6	3	5.0E-05	114.6	2.411	0.465	1.745	0.76	6.5
17.790	21.830	6	3	5.0E-05	114.6	2.429	0.475	1.754	0.76	6.6
17.890	22.158	6	3	5.0E-05	114.6	2.448	0.486	1.763	0.75	6.0
17.990	22.486	6	3	5.0E-05	114.6	2.467	0.496	1.771	0.75	6.1
18.090	22.814	6	3	5.0E-06	114.6	2.486	0.506	1.780	0.75	6.1
18.190	23.143	6	3	5.0E-05	114.6	2.505	0.516	1.788	0.75	5.9
18.290	23.471	6	3	5.0E-06	114.6	2.523	0.527	1.797	0.75	5.8
18.390	23.799	6	3	5.0E-06	114.6	2.542	0.537	1.805	0.74	5.7
18.490	24.127	6	3	5.0E-06	114.6	2.561	0.547	1.814	0.74	5.6
18.590	24.455	6	3	5.0E-05	114.6	2.580	0.557	1.822	0.74	6.6
18.690	24.783	6	3	5.0E-06	114.6	2.598	0.568	1.831	0.74	5.2
18.790	25.111	6	3	5.0E-05	114.6	2.617	0.578	1.839	0.74	6.8
18.890	25.439	6	3	5.0E-05	114.6	2.636	0.588	1.848	0.74	6.0
18.990	25.767	6	3	5.0E-05	114.6	2.655	0.598	1.857	0.73	6.1
19.090	26.095	6	3	5.0E-06	114.6	2.674	0.609	1.865	0.73	5.9
19.190	26.423	6	3	5.0E-06	114.6	2.692	0.619	1.874	0.73	5.6
19.290	26.751	6	3	5.0E-05	114.6	2.711	0.629	1.882	0.73	6.6
19.390	27.079	6	3	5.0E-06	114.6	2.730	0.639	1.891	0.73	5.6
19.490	27.408	6	3	5.0E-05	114.6	2.749	0.649	1.899	0.72	6.7
19.590	27.736	6	3	5.0E-06	114.6	2.768	0.659	1.908	0.72	5.6
19.690	28.064	5	3	5.0E-06	114.6	2.786	0.670	1.916	0.72	5.4
19.790	28.392	6	3	5.0E-05	114.6	2.805	0.680	1.925	0.72	6.8
19.890	28.720	5	3	5.0E-06	114.6	2.824	0.690	1.934	0.72	5.5
19.990	29.048	6	3	5.0E-05	114.6	2.843	0.701	1.942	0.72	6.6
20.090	29.376	6	3	5.0E-05	114.6	2.862	0.711	1.951	0.72	6.7
20.190	29.704	6	3	5.0E-05	114.6	2.880	0.721	1.959	0.71	6.7

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 QUT-SQn (Zone)	Col 13 ZQT-SQn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 h Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 N60 (b/ft)
15.750	50.837	4	3	5.0E-05	116.6	2.899	0.941	1.568	0.71	4.4
15.850	50.969	4	3	5.0E-05	116.6	2.918	0.942	1.576	0.71	4.8
15.950	51.081	4	3	5.0E-05	116.6	2.937	0.952	1.583	0.71	4.7
16.050	51.313	4	3	5.0E-05	116.6	2.956	0.962	1.593	0.71	4.9
16.150	51.545	4	3	5.0E-05	116.6	2.976	0.972	2.602	0.71	5.1
16.250	51.813	4	3	5.0E-05	116.6	2.995	0.982	2.611	0.71	4.1
16.350	52.002	4	3	5.0E-05	116.6	3.014	0.991	2.619	0.70	4.1
16.450	52.329	4	3	5.0E-05	116.6	3.033	1.001	2.628	0.70	4.0
16.550	52.617	4	3	5.0E-05	116.6	3.050	1.011	2.636	0.70	5.0
16.650	52.985	7	5	5.0E-04	117.7	3.069	1.021	2.645	0.70	14.5
16.750	53.314	9	6	5.0E-03	120.9	3.088	1.031	2.654	0.70	21.7
16.850	53.681	6	5	5.0E-04	117.7	3.108	1.041	2.664	0.70	14.5
16.950	53.919	8	5	5.0E-04	117.7	3.127	1.051	2.673	0.69	12.3
17.050	54.297	7	4	5.0E-04	117.7	3.146	1.045	2.682	0.69	7.8
17.150	54.635	5	3	5.0E-05	116.6	3.165	1.075	2.691	0.69	5.6
17.250	54.933	4	3	5.0E-05	116.6	3.184	1.085	2.699	0.69	5.3
17.350	55.253	4	3	5.0E-05	116.6	3.203	1.095	2.708	0.69	5.1
17.450	55.610	4	3	5.0E-05	116.6	3.222	1.105	2.716	0.69	5.5
17.550	55.938	4	3	5.0E-05	116.6	3.241	1.115	2.725	0.69	6.1
17.650	56.266	4	3	5.0E-05	116.6	3.260	1.125	2.733	0.68	6.1
17.750	56.594	4	3	5.0E-05	116.6	3.278	1.135	2.742	0.68	6.7
17.850	56.922	4	3	5.0E-05	116.6	3.297	1.147	2.751	0.68	6.6
17.950	57.250	4	3	5.0E-05	116.6	3.316	1.157	2.759	0.68	6.3
18.050	57.578	4	3	5.0E-05	116.6	3.335	1.167	2.768	0.68	6.5
18.150	57.906	4	3	5.0E-05	116.6	3.353	1.177	2.776	0.68	6.5
18.250	58.234	4	3	5.0E-05	116.6	3.372	1.186	2.785	0.68	6.2
18.350	58.562	4	3	5.0E-05	116.6	3.391	1.196	2.793	0.68	6.9
18.450	58.890	4	3	5.0E-05	116.6	3.410	1.206	2.802	0.67	7.4
18.550	59.218	5	3	5.0E-05	116.6	3.429	1.216	2.810	0.67	8.4
18.650	59.547	5	3	5.0E-05	116.6	3.447	1.226	2.819	0.67	8.6
18.750	59.875	7	5	5.0E-04	116.6	3.466	1.239	2.827	0.67	12.9
18.850	60.203	9	6	5.0E-03	117.7	3.485	1.249	2.836	0.67	14.3
18.950	60.531	9	6	5.0E-03	120.9	3.505	1.259	2.844	0.67	15.4
19.050	60.859	9	6	5.0E-03	120.9	3.525	1.269	2.853	0.67	17.1
19.150	61.187	9	6	5.0E-03	120.9	3.545	1.280	2.862	0.66	16.8
19.250	61.515	7	6	5.0E-04	117.7	3.564	1.290	2.870	0.66	15.8
19.350	61.843	9	6	5.0E-03	120.9	3.584	1.300	2.879	0.66	23.5
19.450	62.171	8	5	5.0E-04	116.6	3.602	1.310	2.887	0.66	29.6
19.550	62.499	8	5	5.0E-04	116.6	3.621	1.321	2.896	0.66	35.4
19.650	62.827	8	5	5.0E-04	119.5	3.641	1.331	2.910	0.65	56.5
19.750	63.155	8	5	5.0E-04	116.6	3.661	1.343	2.920	0.65	30.6
19.850	63.483	8	5	5.0E-04	116.6	3.680	1.353	2.929	0.65	45.5
19.950	63.812	8	5	5.0E-04	116.6	3.698	1.362	2.936	0.65	36.6
20.050	64.140	9	6	5.0E-03	116.6	3.717	1.372	2.945	0.65	41.0
20.150	64.468	9	6	5.0E-03	116.6	3.736	1.382	2.953	0.65	33.6
20.250	64.796	8	5	5.0E-04	116.6	3.754	1.392	2.962	0.65	18.7
20.350	65.124	8	5	5.0E-04	120.5	3.775	1.403	2.970	0.65	19.5
20.450	65.452	8	5	5.0E-04	120.5	3.796	1.413	2.980	0.65	19.5
20.550	65.780	8	5	5.0E-04	116.6	3.816	1.423	2.987	0.65	34.7
20.650	66.108	8	5	5.0E-04	116.6	3.835	1.433	2.996	0.65	51.7
20.750	66.436	8	5	5.0E-04	120.5	3.854	1.444	3.005	0.64	50.4
20.850	66.764	9	6	5.0E-03	120.5	3.876	1.454	3.021	0.64	87.1
20.950	67.092	9	6	5.0E-03	120.5	3.897	1.464	3.032	0.64	95.9
21.050	67.420	9	6	5.0E-03	120.5	3.919	1.474	3.044	0.64	108.3
21.150	67.749	9	6	5.0E-03	120.5	3.940	1.485	3.055	0.64	121.0
21.250	68.077	8	5	5.0E-04	120.5	3.961	1.495	3.067	0.64	59.9
21.350	68.405	8	5	5.0E-04	120.5	3.983	1.505	3.078	0.64	76.1
21.450	68.733	5	4	5.0E-05	119.5	4.004	1.515	3.089	0.63	35.7
21.550	69.061	8	5	5.0E-04	119.5	4.026	1.524	3.097	0.63	71.2
21.650	69.389	6	4	5.0E-05	120.5	4.047	1.534	3.111	0.63	28.2

Run No: Ca-0108-1256-5417

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 SBT-ID	Col-04 SBT-ID#	Col-05 Vs (m/s)	Col-06 Unit Wt (pcf)	Col-07 σ Stress (tsf)	Col-08 U Stress (tsf)	Col-09 E Stress (tsf)	Col-10 Cn	Col-11 N60 (b/ft)
21.350	69.717	6	5	1.0E-15	130.5	4.068	1.556	2.622	0.63	58.3
21.500	70.245	6	5	1.0E-15	130.5	4.093	1.556	2.636	0.63	61.9
21.650	70.373	6	5	1.0E-15	130.5	4.153	1.557	2.665	0.63	60.9
21.800	70.701	6	5	1.0E-15	130.5	4.133	1.577	2.676	0.63	58.3
21.850	71.029	6	5	1.0E-15	130.5	4.154	1.587	2.687	0.62	64.8
21.900	71.357	7	5	1.0E-15	130.5	4.175	1.597	2.698	0.62	72.9
21.950	71.685	6	5	1.0E-15	130.5	4.197	1.598	2.709	0.62	72.9
22.000	72.014	6	5	1.0E-15	130.5	4.218	1.618	2.721	0.62	69.5
22.050	72.342	6	5	1.0E-15	130.5	4.240	1.628	2.732	0.62	57.5
22.100	72.670	6	6	1.0E-03	131.6	4.263	1.638	2.621	0.62	41.3
22.250	73.098	7	6	1.0E-03	131.6	4.298	1.648	2.619	0.62	19.4
22.300	74.134	7	6	1.0E-03	131.6	4.296	1.659	2.617	0.61	17.0
22.450	73.654	7	6	1.0E-03	131.6	4.315	1.669	2.616	0.61	26.7
22.500	73.982	7	6	1.0E-03	131.6	4.333	1.679	2.614	0.61	29.9
22.650	74.310	7	6	1.0E-03	131.6	4.352	1.689	2.651	0.61	18.8
22.750	74.638	7	6	1.0E-03	131.6	4.371	1.700	2.671	0.61	20.7
22.800	74.966	7	6	1.0E-03	131.6	4.390	1.710	2.680	0.61	20.8
22.950	75.294	7	6	1.0E-03	131.6	4.409	1.720	2.688	0.61	20.0
23.000	75.622	7	6	1.0E-03	131.6	4.427	1.730	2.696	0.61	19.8
23.150	75.951	7	6	1.0E-03	131.6	4.446	1.741	2.705	0.61	33.6
23.200	76.279	7	6	1.0E-03	131.6	4.464	1.751	2.714	0.61	33.7
23.350	76.607	8	6	1.0E-03	131.6	4.482	1.761	2.723	0.61	31.0
23.400	76.935	7	6	1.0E-03	131.6	4.501	1.771	2.732	0.61	33.7
23.550	77.263	7	6	1.0E-03	131.6	4.519	1.782	2.741	0.61	33.5
23.600	77.591	7	6	1.0E-03	131.6	4.537	1.792	2.749	0.61	33.2
23.750	77.919	8	6	1.0E-03	131.6	4.556	1.802	2.758	0.61	33.1
23.800	78.247	7	6	1.0E-03	131.6	4.574	1.812	2.767	0.61	34.8
23.950	78.575	7	6	1.0E-03	131.6	4.591	1.823	2.776	0.61	32.0
24.000	78.903	7	6	1.0E-03	131.6	4.611	1.833	2.784	0.61	32.1
24.150	79.233	7	6	1.0E-03	131.6	4.629	1.843	2.793	0.61	32.1
24.200	79.559	6	6	1.0E-03	131.6	4.647	1.853	2.794	0.61	29.1
24.350	79.887	8	6	1.0E-03	131.6	4.666	1.864	2.802	0.61	29.1
24.400	80.215	8	6	1.0E-03	131.6	4.684	1.874	2.810	0.61	14.5
24.550	80.544	7	6	1.0E-03	131.6	4.702	1.884	2.818	0.61	10.7
24.600	80.872	7	6	1.0E-03	131.6	4.721	1.894	2.826	0.55	11.6
24.750	81.200	-9999.0	3	1.0E-03	131.6	4.739	1.905	2.834	0.51	13.3
24.800	81.528	5	3	1.0E-03	131.6	4.757	1.915	2.842	0.55	20.3
24.950	81.856	6	3	1.0E-03	131.6	4.775	1.925	2.850	0.53	26.1
25.000	82.184	7	4	1.0E-03	131.6	4.794	1.935	2.858	0.53	20.1
25.150	82.512	7	4	1.0E-03	131.6	4.812	1.946	2.866	0.59	21.5
25.200	82.840	7	4	1.0E-03	131.6	4.830	1.956	2.874	0.59	25.3
25.350	83.168	7	4	1.0E-03	131.6	4.848	1.966	2.882	0.59	27.4
25.400	83.496	7	4	1.0E-03	131.6	4.867	1.976	2.890	0.59	27.7
25.550	83.824	7	4	1.0E-03	131.6	4.885	1.987	2.898	0.59	26.6
25.600	84.153	7	5	1.0E-03	131.6	4.904	1.997	2.906	0.59	24.9
25.750	84.481	7	5	1.0E-03	131.6	4.922	2.007	2.914	0.59	23.7
25.800	84.809	7	4	1.0E-03	131.6	4.940	2.017	2.922	0.59	25.3
25.950	85.137	7	4	1.0E-03	131.6	4.958	2.028	2.929	0.58	26.1
26.000	85.465	7	4	1.0E-03	131.6	4.976	2.038	2.937	0.58	27.1
26.150	85.793	7	4	1.0E-03	131.6	4.995	2.048	2.945	0.58	28.4
26.200	86.121	7	4	1.0E-03	131.6	5.013	2.058	2.953	0.58	31.1
26.350	86.449	7	4	1.0E-03	131.6	5.031	2.068	2.960	0.58	31.6
26.400	86.777	7	4	1.0E-03	131.6	5.049	2.079	2.968	0.58	32.8
26.550	87.105	7	4	1.0E-03	131.6	5.068	2.089	2.976	0.58	30.0
26.600	87.433	7	4	1.0E-03	131.6	5.086	2.099	2.983	0.58	25.1
26.750	87.761	7	4	1.0E-03	131.6	5.104	2.109	2.990	0.58	24.6
26.800	88.089	8	4	1.0E-03	131.6	5.122	2.119	3.000	0.58	26.1
26.950	88.418	8	4	1.0E-03	131.6	5.141	2.130	3.011	0.55	35.3
27.150	88.746	8	5	1.0E-03	134.8	5.159	2.140	3.019	0.55	35.3
27.150	89.074	8	5	1.0E-03	131.6	5.175	2.150	3.027	0.57	43.5

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CPT File 721CP02.CGR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-SL (Zone)	Col-13 SBT-BQn (Zone)	Col-14 Perm % (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 V Stress (tsf)	Col-19 Cn	Col-20 NTD (lb/ft)
27.250	89.402	8	5	5.0E-08	111.4	5.194	2.161	3.036	0.57	46.2
27.350	89.730	9	5	5.0E-05	114.5	5.215	2.171	3.044	0.57	34.0
27.450	90.058	9	6	5.0E-04	117.7	5.234	2.181	3.051	0.57	31.7
27.550	90.385	9	6	5.0E-04	117.7	5.253	2.191	3.052	0.57	25.4
27.650	90.714	9	5	5.0E-04	117.7	5.272	2.202	3.071	0.57	32.6
27.750	91.042	9	6	5.0E-03	120.9	5.292	2.212	3.080	0.57	27.1
27.850	91.370	9	5	5.0E-04	117.7	5.312	2.222	3.059	0.57	30.8
27.950	91.698	9	5	5.0E-04	117.7	5.331	2.232	3.059	0.57	27.6
28.050	92.026	9	5	5.0E-04	117.7	5.350	2.242	3.108	0.57	31.3
28.150	92.353	9	6	5.0E-03	120.9	5.370	2.253	3.117	0.57	25.8
28.250	92.681	9	5	5.0E-04	117.7	5.389	2.263	3.126	0.57	26.8
28.350	93.011	9	5	5.0E-04	117.7	5.409	2.273	3.135	0.56	26.5
28.450	93.335	9	6	5.0E-03	120.9	5.428	2.284	3.145	0.56	26.1
28.550	93.667	9	5	5.0E-03	120.9	5.448	2.294	3.154	0.56	27.8

Interpretation Output - Release 1.21 Rev. A - Build 6 Format: ELF Imperial

For Job 05-0116-1248-5437
Job No 05-721
Client GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-012
Location: Pigeon Point
Cone: 20 TON ASTM
CPT Date 05/01/01
CPT Time 11:54
CPT File 721P20.COR
Sounding (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 1.10 Ref: 20.2
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (m): 0.10
Gs Max used 25.00 Su/P' limit: 0.50
Dr Method : Jamiolkowski - All Sands
State Parameter Ψ: 0.20
Used Unit Weights Assigned to Soil Zones
Ic&Qc Calculated using qcIn
Kc&Qcs Calculated using qcInCs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Qt(tsf) (tsf/tsf)	Col-22 Normalized Qt(tsf) (tsf/tsf)	Col-23 Qt(tsf) Ic (tsf/tsf)	Col-24 Qc	Col-26 Fr (%)	Col-25 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Zone (Zone)
0.050	0.164	0.5	0.7	7.9	420.65	0.27	1.01	2.90	5.5	6
0.150	0.492	5.0	2.2	33.5	182.68	1.70	0.02	2.23	20.1	5
0.250	0.820	12.7	3.6	34.2	275.24	1.86	0.07	2.25	20.6	5
0.350	1.148	24.4	7.5	35.5	266.70	1.29	0.02	2.09	15.5	6
0.450	1.476	11.2	3.3	51.5	172.91	1.52	0.01	2.20	21.6	5
0.550	1.804	5.9	2.6	8.2	99.85	2.20	-0.01	2.51	31.3	5
0.650	2.133	5.0	1.7	6.7	57.06	2.17	0.03	2.49	30.1	5
0.750	2.461	5.2	2.3	6.4	67.66	1.32	0.02	2.16	29.3	5
0.850	2.789	5.5	2.8	7.2	76.02	1.16	-0.02	2.29	26.2	5
0.950	3.117	14.7	6.6	18.1	106.86	1.19	-0.01	2.24	24.5	5
1.050	3.445	17.7	6.6	18.7	97.02	2.18	1.01	2.42	27.4	5
1.150	3.773	17.1	5.5	32.1	153.33	0.93	0.01	2.06	25.3	5
1.250	4.101	10.0	2.6	7.9	41.15	1.93	0.01	2.49	30.1	5
1.350	4.429	8.3	2.1	6.2	31.47	1.18	0.02	2.46	29.1	5
1.450	4.757	9.1	2.5	6.9	35.18	1.09	0.01	2.34	27.3	5
1.550	5.085	9.2	2.2	6.2	42.47	1.11	0.03	2.49	30.1	5
1.650	5.413	9.8	2.5	6.5	44.74	1.04	0.01	2.52	31.6	5
1.750	5.741	13.2	4.1	8.6	59.78	1.57	0.01	2.62	37.7	5
1.850	6.069	6.6	1.9	4.6	36.40	2.17	0.01	2.94	41.8	4
1.950	6.398	3.4	1.1	3.4	31.32	1.45	0.07	2.78	45.0	4
2.050	6.726	3.3	1.2	3.0	9.97	1.16	0.05	2.79	45.3	4
2.150	7.054	2.6	1.1	2.5	7.62	1.66	0.17	2.87	56.2	3
2.250	7.382	2.4	1.0	2.3	6.09	0.90	0.05	2.90	52.1	4
2.350	7.710	5.2	2.6	4.3	25.47	1.40	0.05	2.66	38.3	4
2.450	8.038	5.4	4.3	6.4	15.82	1.95	0.01	2.64	34.4	5
2.550	8.366	20.5	9.3	21.8	92.06	1.14	0.03	2.31	16.6	5
2.650	8.694	24.6	12.1	29.5	144.40	0.81	0.03	2.05	7.6	6
2.750	9.022	22.9	9.0	7.1	38.47	1.74	0.01	2.42	40.6	5
2.850	9.350	16.9	6.3	7.1	30.13	2.58	0.01	2.66	39.3	5
2.950	9.678	17.6	7.0	10.9	60.57	2.08	0.02	2.38	29.6	5
3.050	10.006	23.1	11.6	35.6	94.53	1.57	0.01	2.25	27.6	5
3.150	10.335	16.1	7.7	20.7	54.59	2.09	0.01	2.41	26.9	5

Run No: GS-0108-1256-5417
CPI File 7210P02.CPI

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Di(60) (lb/ft3)	Col-22 Ni(60-To (lb/ft3)	Col-23 Di(60)to (lb/ft3)	Col-24 Qt	Col-25 Ei (%)	Col-26 BQ	Col-27 Ic	Col-28 FC (%)	Col-29 IcZone (Zone)
3.250	10.663	24.7	8.0	10.4	50.80	3.39	0.01	1.25	20.6	5
3.350	10.991	6.8	3.3	4.8	26.64	1.96	0.04	2.35	48.4	4
3.450	11.319	6.3	2.9	3.7	19.19	1.74	0.05	2.61	69.9	4
3.550	11.647	7.8	4.3	5.3	28.75	1.51	0.02	2.59	34.4	5
3.650	11.975	9.9	5.4	6.8	36.17	1.77	0.02	2.54	32.3	5
3.750	12.303	12.0	6.4	7.9	36.24	1.76	0.01	2.47	29.2	5
3.850	12.631	15.6	7.0	8.5	37.38	2.81	0.01	2.53	34.4	5
3.950	12.959	15.2	6.1	8.4	31.02	2.94	0.05	2.62	41.4	5
4.050	13.287	15.7	7.5	8.8	37.80	1.96	0.02	2.41	28.5	5
4.150	13.615	14.0	6.1	8.2	32.90	2.75	0.05	2.53	34.7	5
4.250	13.943	20.4	6.0	7.1	28.86	2.19	0.02	2.51	35.1	5
4.350	14.271	15.0	6.4	7.6	28.99	2.87	0.01	2.41	31.0	4
4.450	14.600	21.6	7.0	7.8	31.90	2.32	0.01	2.59	33.1	5
4.550	14.928	20.0	6.7	7.2	28.97	2.24	0.01	2.57	34.2	5
4.650	15.256	16.0	9.4	10.2	45.37	0.94	0.01	2.14	17.8	5
4.750	15.584	21.6	10.5	11.2	60.14	0.31	0.09	1.85	5.2	6
4.850	15.912	10.4	8.4	9.2	49.51	0.54	0.01	1.95	5.1	6
4.950	16.240	12.8	9.5	10.1	50.95	0.40	0.00	1.96	5.5	6
5.050	16.568	14.8	10.7	11.2	59.93	0.26	0.00	1.83	5.1	6
5.150	16.896	9.9	4.2	6.4	30.37	0.21	0.01	2.56	5.1	5
5.250	17.224	7.1	3.9	6.1	28.31	0.14	0.01	2.65	5.6	4
5.350	17.552	11.4	-9999.0	-9999.0	41.56	0.05	0.01	3695.0	9999.0	0
5.450	17.880	13.4	12.5	10.6	54.01	0.19	0.00	1.50	5.0	6
5.550	18.208	18.7	14.4	14.3	71.67	0.35	0.02	1.77	5.0	6
5.650	18.537	17.2	15.9	15.7	85.61	0.15	0.02	1.58	4.0	6
5.750	18.865	14.6	17.9	12.6	64.82	0.19	0.01	1.72	5.0	6
5.850	19.193	11.4	5.7	9.6	41.96	0.25	0.01	1.95	5.0	6
5.950	19.521	12.7	11.0	10.5	68.92	0.08	0.01	1.53	5.0	6
6.050	19.849	15.6	12.6	12.0	85.39	0.14	0.02	1.50	5.0	6
6.150	20.177	11.9	11.5	10.9	52.82	0.15	0.00	1.50	5.0	6
6.250	20.505	12.4	10.9	10.2	46.57	0.36	0.02	1.93	5.0	6
6.350	20.833	15.4	12.6	11.5	57.83	0.15	0.02	1.72	5.0	6
6.450	21.161	17.5	14.6	13.7	65.64	0.21	0.02	1.77	5.0	6
6.550	21.489	13.6	-9999.0	-9999.0	61.54	0.03	0.00	-9999.0	-9999.0	0
6.650	21.817	14.9	-9999.0	9999.0	55.24	0.06	0.00	-9999.0	-9999.0	0
6.750	22.145	13.7	11.1	10.3	43.65	0.10	0.01	1.74	5.0	6
6.850	22.473	11.6	10.3	9.5	41.31	0.13	0.00	1.74	5.0	6
6.950	22.802	9.9	-9999.0	-9999.0	14.02	0.08	0.00	-9999.0	-9999.0	0
7.050	23.130	13.2	11.5	10.4	47.04	0.18	0.00	1.80	5.0	6
7.150	23.458	16.9	14.0	14.5	68.05	0.34	0.01	1.75	5.0	6
7.250	23.786	16.3	15.0	14.9	71.99	0.14	0.01	1.59	4.2	6
7.350	24.114	14.0	12.4	11.1	50.45	0.24	0.00	1.51	5.0	6
7.450	24.442	12.8	12.1	10.8	45.93	0.50	0.01	1.98	12.6	4
7.550	24.770	16.8	13.3	11.9	41.97	2.63	0.01	2.26	26.6	5
7.650	25.098	12.8	8.0	6.5	22.17	3.33	0.01	2.76	63.0	4
7.750	25.426	7.8	7.9	6.2	13.04	3.95	0.01	2.96	96.8	3
7.850	25.754	14.2	11.1	9.8	37.36	1.84	0.00	2.21	39.3	5
7.950	26.082	22.6	21.3	19.6	79.53	1.20	0.00	1.99	22.7	6
8.050	26.410	27.8	6.7	6.1	19.61	5.74	0.04	2.35	55.1	6
8.150	26.739	10.9	8.0	6.9	38.46	4.06	0.05	2.57	49.5	4
8.250	27.067	9.6	7.2	6.1	25.99	3.96	0.04	2.61	51.6	4
8.350	27.395	13.4	9.4	8.0	24.38	2.89	0.02	2.65	39.4	4
8.450	27.723	13.8	8.5	8.1	19.79	3.68	0.05	2.84	46.1	4
8.550	28.051	12.4	8.5	8.0	19.36	3.16	0.05	2.85	49.2	4
8.650	28.379	12.5	10.5	9.5	27.14	2.84	0.07	2.64	37.1	4
8.750	28.707	12.7	10.4	9.4	26.82	2.17	0.02	2.63	37.0	4
8.850	29.036	17.0	12.6	10.7	36.09	2.19	0.04	2.41	25.7	5
8.950	29.364	10.9	8.1	6.5	17.31	3.74	0.03	2.88	65.1	4
9.050	29.692	8.5	6.5	6.1	13.62	3.25	0.03	2.91	82.5	4
9.150	30.020	9.6	8.0	7.0	13.31	6.17	0.02	3.04	91.0	3

Run No: 05-0100-1776-5417
CPT File 7210702 CPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 (lb/ft3)	Col-22 (lb/ft3)	Col-23 (lb/ft3)	Col-24	Col-25 (%)	Col-26	Col-27	Col-28 (%)	Col-29
9.250	30.347	10.2	7.6	5.3	16.63	3.25	0.01	2.84	45.5	4
9.350	30.675	11.5	8.5	6.0	19.36	4.00	0.01	2.85	56.9	4
9.450	31.004	14.1	9.7	6.1	23.58	4.44	0.05	2.87	58.3	4
9.550	31.332	14.2	8.2	5.4	19.83	4.45	0.00	2.82	55.2	4
9.650	31.660	12.4	7.5	4.9	14.70	4.69	0.01	2.80	57.1	3
9.750	31.988	14.3	8.4	5.5	17.05	4.67	0.01	2.81	52.5	4
9.850	32.316	15.1	8.5	5.2	15.49	4.88	0.00	2.99	56.7	3
9.950	32.644	14.9	8.6	5.7	17.66	4.67	0.01	2.82	53.1	4
10.050	32.972	25.5	11.4	7.6	25.17	4.20	0.00	2.91	44.3	4
10.150	33.300	24.0	10.5	6.8	23.35	4.21	0.00	2.81	41.6	4
10.250	33.628	23.6	11.9	7.7	27.69	3.86	-0.01	2.61	33.8	4
10.350	33.956	25.2	11.2	7.2	24.30	4.05	0.02	2.77	44.4	4
10.450	34.284	23.7	10.3	6.5	21.60	3.98	0.01	2.81	40.3	4
10.550	34.612	25.1	11.1	7.1	24.54	3.93	0.01	2.77	44.1	4
10.650	34.941	25.1	11.7	7.4	25.50	3.77	0.01	2.76	42.4	4
10.750	35.269	8.3	6.6	4.5	9.78	4.24	0.04	3.10	59.4	4
10.850	35.597	6.6	5.0	3.3	6.02	4.62	0.15	3.25	61.7	4
10.950	35.925	5.6	4.8	3.0	5.81	4.66	0.23	3.24	61.1	3
11.050	36.253	6.0	4.6	3.0	5.16	4.62	0.25	3.26	61.0	3
11.150	36.581	5.5	4.3	2.8	5.96	4.26	0.25	3.22	59.4	3
11.250	36.909	5.9	4.6	2.9	6.32	4.33	0.22	2.93	58.1	3
11.350	37.237	5.8	4.5	2.9	6.47	4.30	0.25	2.93	57.6	3
11.450	37.565	5.7	4.5	2.9	6.67	4.55	0.27	3.00	56.1	3
11.550	37.893	5.5	4.4	2.9	6.92	4.69	0.27	2.98	56.9	3
11.650	38.222	6.2	4.6	2.9	7.03	4.38	0.26	2.94	56.6	4
11.750	38.550	6.0	4.6	2.9	6.80	4.02	0.26	3.01	58.9	3
11.850	38.878	5.8	4.5	2.9	6.82	4.54	0.30	3.03	60.5	3
11.950	39.206	5.7	4.5	2.9	6.71	4.55	0.31	3.03	60.4	3
12.050	39.534	5.9	4.6	2.9	6.66	4.76	0.30	3.03	60.9	3
12.150	39.862	6.2	4.8	3.0	7.01	4.81	0.32	3.01	59.2	3
12.250	40.190	6.4	4.9	3.0	7.68	4.70	0.29	3.01	61.0	3
12.350	40.518	5.7	4.5	2.8	6.94	4.82	0.31	3.01	63.3	3
12.450	40.846	5.6	4.9	2.9	6.37	5.13	0.32	3.01	63.7	3
12.550	41.174	6.2	4.8	3.1	8.25	5.10	0.36	3.12	65.2	3
12.650	41.502	5.6	4.8	3.1	8.36	5.35	0.36	3.06	64.2	3
12.750	41.830	6.2	4.9	3.1	8.10	5.07	0.34	3.10	65.6	3
12.850	42.158	5.6	4.8	2.9	8.46	5.05	0.32	3.06	62.6	3
12.950	42.486	5.8	4.8	2.9	8.06	5.18	0.32	3.05	62.5	3
13.050	42.814	5.6	4.8	2.9	8.76	4.96	0.29	3.10	65.5	3
13.150	43.143	5.6	4.8	2.9	8.54	4.97	0.30	3.11	64.5	3
13.250	43.471	5.5	4.8	2.9	8.29	5.06	0.32	3.05	63.8	3
13.350	43.799	5.4	4.8	2.9	8.36	5.02	0.31	3.06	64.2	3
13.450	44.127	5.4	4.8	2.9	8.39	4.90	0.29	3.02	63.2	3
13.550	44.455	5.7	4.8	2.9	8.65	4.80	0.26	3.09	65.0	3
13.650	44.783	5.4	4.8	2.9	8.60	4.52	0.28	3.11	66.4	3
13.750	45.111	5.5	4.8	2.9	8.37	4.72	0.32	3.10	65.7	3
13.850	45.439	5.6	4.8	2.9	8.57	4.84	0.26	3.10	65.1	3
13.950	45.767	5.6	4.8	2.9	8.40	5.05	0.30	3.06	64.2	3
14.050	46.095	5.9	4.8	3.0	8.87	2.33	0.10	3.20	72.1	3
14.150	46.423	5.8	4.8	2.8	8.72	1.55	0.01	3.17	73.2	4
14.250	46.751	5.8	4.8	2.8	8.72	1.57	0.04	3.16	73.5	3
14.350	47.079	5.7	4.8	2.8	8.75	2.07	0.04	3.19	72.2	3
14.450	47.408	5.6	4.8	2.8	8.87	1.17	0.02	3.13	67.7	3
14.550	47.736	5.8	4.8	2.8	8.65	1.51	0.01	3.17	70.5	3
14.650	48.064	5.9	4.8	2.8	8.48	1.76	0.03	3.19	72.3	3
14.750	48.392	5.6	4.8	2.9	8.39	1.50	0.05	3.09	66.2	3
14.850	48.720	5.9	4.8	2.9	8.63	1.64	0.02	3.11	70.6	3
14.950	49.048	5.8	4.8	2.9	8.53	1.68	0.09	3.14	70.8	3
15.050	49.375	5.8	4.8	2.8	8.21	1.61	0.05	3.14	68.6	3
15.150	49.704	5.8	4.8	2.8	8.73	1.64	0.07	3.15	68.9	3

Run No: CS-0108-1250-5417
CPT File: 121CP02 COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N(60)fc (b/ft)	Col-23 N1(60)cs (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Rq	Col-27 Ic	Col-28 FC (%)	Col-29 SoilBehav (Class)
15.200	49.869	3.3	6.0	1.6	4.66	0.82	0.38	3.02	61.0	3
15.300	50.197	3.4	6.1	1.7	4.96	1.15	0.37	3.06	62.0	3
15.400	50.525	3.3	6.1	1.7	4.72	1.16	0.36	3.08	64.0	3
15.500	50.853	3.5	6.3	1.7	4.95	1.32	0.34	3.07	63.5	3
15.600	51.345	3.6	6.4	1.8	5.11	1.33	0.33	3.04	61.3	3
15.750	51.673	3.7	6.5	1.8	4.34	1.75	0.40	3.17	67.1	3
15.850	52.001	3.5	6.2	1.6	4.53	1.35	0.30	3.05	66.3	3
15.950	52.329	3.2	6.2	1.6	4.38	1.30	0.30	3.13	67.3	3
16.050	52.657	3.9	6.6	1.7	4.22	1.90	0.35	3.22	74.3	3
16.150	52.965	10.2	12.6	2.6	20.78	1.01	0.06	2.32	23.6	5
16.250	53.313	16.2	18.6	13.2	62.66	0.97	0.50	2.07	14.8	5
16.350	53.641	10.1	12.6	7.1	28.66	1.56	0.20	2.43	27.7	5
16.450	53.969	8.6	8.8	5.1	17.31	0.79	0.09	2.44	21.3	5
16.550	54.297	5.6	6.9	3.1	10.28	1.11	0.21	2.97	44.4	4
16.650	54.625	3.9	6.0	1.5	5.45	1.14	0.19	3.02	59.7	3
16.750	54.953	3.5	6.3	1.6	4.79	0.80	0.17	2.91	58.1	3
16.850	55.281	3.6	6.4	1.7	4.91	0.78	0.43	2.93	58.0	3
16.950	55.610	3.8	6.5	1.8	5.25	1.26	0.49	3.01	60.1	3
17.050	55.938	4.8	5.4	2.1	6.11	1.62	0.36	2.84	51.3	3
17.150	56.266	4.5	5.8	2.2	6.58	1.69	0.39	2.94	51.6	3
17.250	56.594	4.6	5.8	2.4	6.72	2.26	0.35	3.03	53.7	3
17.350	56.922	4.4	5.7	2.2	6.23	2.02	0.26	3.05	54.0	3
17.450	57.250	4.6	5.6	2.3	6.83	1.05	0.25	3.05	51.6	3
17.550	57.578	2.7	-9999.0	-9999.0	3.28	0.78	0.31	-9999.0	9999.0	2
17.650	57.906	3.7	3.9	1.3	3.28	1.09	0.39	3.21	73.4	3
17.750	58.234	3.6	4.7	1.4	3.40	1.69	0.36	3.26	79.0	3
17.850	58.562	4.0	4.8	1.6	4.05	2.37	0.30	3.27	76.6	3
17.950	58.890	5.0	5.7	2.1	5.50	2.81	0.29	3.20	72.0	3
18.050	59.218	5.7	6.6	2.5	6.42	3.76	0.34	3.18	71.6	3
18.150	59.547	6.5	7.1	2.8	7.69	3.54	0.31	3.14	68.4	3
18.250	59.875	12.0	13.6	5.8	29.17	3.53	0.05	2.51	46.4	4
18.350	60.203	25.6	25.8	17.6	52.51	1.65	0.00	2.19	18.6	5
18.450	60.531	23.6	23.1	15.9	64.32	1.18	0.00	1.97	12.1	6
18.550	60.859	24.3	23.6	20.6	97.94	1.23	-0.01	1.96	12.0	6
18.650	61.187	23.5	23.4	20.6	94.82	1.52	-0.01	2.04	14.9	6
18.750	61.515	26.6	27.0	18.5	93.24	2.15	-0.01	2.20	19.1	5
18.850	61.843	22.2	22.3	14.1	36.77	3.16	-0.01	2.45	27.7	5
18.950	62.171	16.5	15.5	6.5	21.25	4.61	0.02	2.55	59.2	4
19.050	62.499	21.1	20.4	6.8	30.57	6.63	0.01	2.71	61.5	4
19.150	62.827	17.2	17.9	7.5	23.96	6.00	0.01	2.89	91.5	4
19.250	63.155	20.2	19.0	8.2	16.23	5.65	0.02	2.93	94.3	4
19.350	63.483	29.8	15.4	6.6	15.84	6.71	0.02	3.00	98.0	1
19.450	63.812	21.9	17.2	7.2	22.93	5.31	-0.02	2.87	90.3	4
19.550	64.140	24.3	23.1	9.6	34.93	6.33	-0.02	2.68	89.4	4
19.650	64.468	22.0	23.1	9.6	35.93	3.67	-0.01	2.62	86.7	4
19.750	64.796	25.2	17.8	7.4	24.09	4.93	-0.02	2.53	87.9	4
19.850	65.124	32.3	15.4	7.0	24.39	5.04	-0.02	2.57	90.0	4
19.950	65.452	45.0	20.1	8.7	28.05	5.42	-0.01	2.50	86.2	4
20.050	65.780	22.4	17.6	6.7	21.13	5.34	-0.02	2.60	91.6	4
20.150	66.109	37.4	17.0	6.9	20.90	6.37	0.00	2.65	86.4	1
20.250	66.436	38.9	19.7	8.0	24.67	7.22	-0.01	2.64	84.5	4
20.350	66.764	55.0	25.4	10.5	34.96	5.62	0.00	2.76	87.7	4
20.450	67.092	61.5	27.2	11.1	34.56	5.50	0.00	2.70	86.4	4
20.550	67.420	69.3	36.1	22.4	68.68	5.13	0.01	2.65	38.0	4
20.650	67.748	70.9	40.3	17.4	65.62	4.52	0.01	2.61	35.1	4
20.750	68.077	44.6	21.6	8.7	27.97	6.19	-0.02	2.85	90.1	4
20.850	68.405	48.3	22.9	9.2	30.65	5.69	-0.02	2.80	86.1	4
20.950	68.733	54.3	25.7	10.3	36.36	6.26	0.00	2.76	85.6	4
21.050	69.061	45.3	22.8	9.0	28.38	7.35	-0.01	2.91	92.2	4
21.150	69.389	43.3	22.0	8.6	26.89	7.34	-0.01	2.91	92.3	4

Run No: 06-0303-1258-5617
CPT File: /A1CP02.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Q1(60) (lb/ft)	Col-22 Q1(60)Sc (lb/ft)	Col-23 Q1(60)Sc (lb/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Ic2corr (2corr)
21.250	69.717	48.3	21.6	5.4	25.67	6.69	-0.01	2.87	53.5	4
21.350	70.045	38.9	20.1	7.9	23.88	5.82	-0.01	2.71	54.0	4
21.450	70.373	30.3	19.7	7.6	23.36	6.58	0.01	2.93	51.9	4
21.550	70.701	39.6	20.2	7.7	24.23	6.36	0.00	2.91	52.4	4
21.650	71.029	39.8	20.6	7.9	24.33	6.61	0.02	2.93	53.6	4
21.750	71.357	45.4	22.9	8.6	27.07	6.60	0.00	2.97	50.6	4
21.850	71.685	45.3	23.0	8.7	27.79	6.73	0.01	2.98	50.8	4
21.950	72.014	55.5	26.5	10.1	34.93	5.77	0.00	2.87	46.2	4
22.050	72.342	35.6	19.6	7.2	21.39	7.46	-0.04	2.99	47.9	3
22.150	72.670	25.5	15.2	5.9	16.81	7.09	-0.06	3.17	59.1	3
22.250	72.998	18.1	11.4	3.9	10.06	6.53	-0.04	3.20	73.0	2
22.350	73.325	16.7	10.5	3.5	9.78	5.95	-0.04	3.22	76.5	2
22.450	73.653	11.5	10.5	3.5	9.62	5.07	-0.03	3.35	69.3	2
22.550	73.981	12.2	20.9	3.7	10.58	5.02	-0.01	4.04	57.6	1
22.650	74.310	12.8	11.4	3.9	10.52	5.19	-0.03	4.07	64.6	1
22.750	74.638	12.7	11.2	3.8	10.19	4.92	-0.03	3.97	64.8	1
22.851	74.966	12.7	11.2	3.9	10.52	5.19	-0.02	3.93	67.7	1
22.951	75.294	18.4	11.4	3.8	10.05	5.93	-0.03	3.91	93.8	1
23.050	75.622	11.6	20.1	3.5	9.62	5.11	-0.03	3.95	67.5	1
23.150	75.951	11.9	10.8	3.6	9.69	6.68	-0.02	3.91	67.8	1
23.250	76.279	20.5	12.4	4.2	11.36	5.81	-0.01	3.93	91.4	1
23.350	76.607	21.2	12.9	4.3	11.76	5.56	-0.01	3.93	91.6	1
23.450	76.936	20.4	12.5	4.2	11.33	6.01	-0.02	3.95	89.0	1
23.550	77.264	19.6	12.1	4.0	10.74	5.97	-0.01	3.95	89.3	1
23.650	77.591	20.4	11.9	4.0	10.65	6.61	0.01	3.84	88.4	1
23.750	77.919	14.0	12.5	4.2	11.65	5.65	-0.01	3.93	65.9	1
23.850	78.247	20.9	12.8	4.2	11.47	5.95	-0.02	3.93	97.5	1
23.950	78.575	19.2	12.2	3.9	10.45	6.06	0.01	3.97	93.4	1
24.050	78.903	16.7	12.1	4.0	10.71	5.68	0.02	3.95	85.1	1
24.150	79.231	22.4	13.4	4.6	12.38	5.64	0.04	3.89	94.6	1
24.250	79.559	24.5	14.4	5.0	13.82	5.63	0.03	3.93	97.8	1
24.350	79.887	21.6	13.8	4.7	12.93	5.63	0.00	3.96	93.2	1
24.450	80.216	20.6	12.6	4.1	11.26	6.15	0.00	3.91	88.6	1
24.550	80.544	19.5	12.7	4.1	10.44	7.02	0.01	3.82	73.5	2
24.650	80.872	18.8	12.2	3.9	10.09	6.60	0.00	3.89	73.2	2
24.750	81.200	13.9	10.4	3.1	6.52	8.13	-0.03	3.39	56.4	3
24.850	81.529	12.2	9.2	2.6	5.86	8.82	-0.06	3.39	63.2	3
24.950	81.857	11.1	8.7	2.4	5.17	8.37	0.02	3.44	82.6	3
25.050	82.185	11.9	8.9	2.5	5.55	8.10	0.01	3.39	89.4	3
25.150	82.513	12.6	9.4	2.7	6.10	8.03	0.01	3.36	66.1	3
25.250	82.840	14.9	10.6	3.2	7.52	8.26	0.01	3.29	80.2	3
25.350	83.168	15.1	10.6	3.4	8.03	7.33	0.01	3.30	80.8	3
25.450	83.496	15.0	10.6	3.5	8.13	7.14	0.04	3.29	86.6	3
25.550	83.824	15.8	10.2	3.4	8.01	7.14	-0.04	3.32	81.0	3
25.650	84.153	14.6	10.0	3.3	7.94	7.26	-0.05	3.34	86.3	3
25.750	84.481	11.9	10.2	2.9	6.79	6.59	-0.04	3.35	84.3	1
25.850	84.809	14.6	10.4	3.2	7.25	7.39	-0.03	3.38	81.7	1
25.950	85.137	15.2	10.2	3.2	7.61	7.67	-0.02	3.38	80.9	1
26.050	85.465	15.9	11.3	3.3	8.02	7.85	0.00	3.29	80.2	3
26.150	85.793	16.5	11.6	3.4	8.34	7.96	0.02	3.26	79.2	3
26.250	86.121	20.1	12.3	3.7	9.30	7.61	-0.01	3.21	75.5	3
26.350	86.449	18.3	12.4	3.7	9.36	6.91	0.01	3.29	74.6	2
26.450	86.777	19.3	12.9	3.9	9.85	6.83	0.00	3.29	74.1	2
26.550	87.105	17.4	12.4	3.6	8.82	7.57	-0.04	3.29	73.7	3
26.650	87.433	17.1	12.0	3.5	8.81	7.44	0.01	3.26	76.3	3
26.750	87.761	20.5	13.3	4.0	10.16	7.62	0.02	3.19	72.4	2
26.850	88.089	22.2	14.5	4.4	11.64	7.91	-0.01	3.17	70.5	2
26.950	88.418	20.3	13.6	4.1	10.54	7.33	0.01	3.21	76.3	2
27.050	88.746	19.2	13.0	3.9	10.08	7.09	0.01	3.21	69.3	2
27.150	89.074	25.2	16.2	4.9	13.42	7.22	-0.02	3.09	81.6	1

Run No: 06 0306 1255 3417
CPT File: 7210260.CPR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N(60)Ic (b/ft)	Col-23 N1(60)Ic (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Ic Zone (Zone)
27.250	89.402	27.7	16.8	5.2	14.87	6.06	2.02	3.05	61.8	3
27.350	89.730	20.0	24.7	8.0	28.15	3.56	-0.01	2.69	40.2	4
27.450	90.058	21.4	26.6	15.5	36.60	2.53	-0.01	2.32	23.2	5
27.550	90.386	20.2	24.4	14.5	34.52	1.85	-0.02	2.24	20.4	5
27.650	90.714	18.5	22.7	11.4	31.14	1.95	-0.02	2.29	21.0	5
27.750	91.042	15.4	24.4	14.2	35.04	1.60	-0.01	2.19	18.8	5
27.850	91.370	17.5	22.3	13.0	29.48	2.36	-0.01	2.36	24.3	5
27.950	91.698	11.7	23.4	7.1	26.19	2.38	-0.02	2.40	15.4	4
28.050	92.026	17.0	23.1	17.8	29.55	1.95	-0.01	2.10	22.5	5
28.150	92.355	14.6	23.1	13.4	32.19	1.43	-0.01	2.16	18.4	5
28.250	92.683	15.2	19.6	11.3	25.17	2.12	-0.01	2.37	25.4	5
28.350	93.011	15.0	19.4	11.2	24.77	2.15	0.00	2.36	25.8	5
28.450	93.337	16.1	25.3	14.6	36.23	1.49	0.01	2.15	17.5	5
28.550	93.667	12.7	19.7	11.4	28.15	0.95	0.02	2.10	16.5	5

Geotech Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev A - Build 3 Format: PDF (Imperial)
Run No: 01-0106-1256-6417
Job No: 01-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-75-102
Location: Pigeon Point
Cone 20 TON AD157
CPT Date: 15/01/01
CPT Time: 11:35
CPT File: 721CP02.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 6.15 (ft): 20.2
Unit Weight of Water (default): 62.43 pcf
Averaging Increment (m): 0.10
Ko Not Used: 25.00 Su/P' (ocr): 0.22
Dr Method: Jamiolkowski - All Sands
Grain Parameter K: 1.00
Hand Unit Weights Assigned to Soil Zones
Nkt=10 Calculated using qcin
Nk=15 Calculated using qcinsu

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Dr (%)	Col-11 Phi (deg)	Col-12 Strain Par	Col-13 Es/qc	Col-14 Young's (tsf)	Col-15 Su (tsf)	Col-16 OCR
0.050	0.164	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.245	10.0
0.100	0.492	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.489	10.0
0.150	0.820	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.734	10.0
0.200	1.148	47.8	40.0	-0.31	2.452	60.0	0.947	10.0
0.250	1.476	47.0	44.0	-0.29	2.961	62.1	0.969	10.0
0.300	1.804	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.484	10.0
0.350	2.131	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.469	10.0
0.400	2.461	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.634	10.0
0.450	2.789	42.5	43.0	-0.18	-9999.0	-9999.0	0.796	10.0
0.500	3.117	44.1	47.0	-0.20	3.115	99.5	1.259	10.0
1.000	3.445	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.271	10.0
1.050	3.773	50.9	42.0	-0.20	2.764	76.1	-9999.0	-9999.0
1.100	4.101	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.883	10.0
1.150	4.429	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.966	10.0
1.200	4.757	-9999.0	-9999.0	9999.0	9999.0	-9999.0	0.853	10.0
1.250	5.085	30.0	38.0	0.33	9999.0	-9999.0	0.843	10.0
1.300	5.413	29.2	36.0	-0.16	-9999.0	-9999.0	0.829	10.0
1.350	5.741	26.2	40.0	-0.19	3.556	78.5	1.301	10.0
1.400	6.069	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.181	4.7
1.450	6.398	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.277	7.0
1.500	6.726	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.259	6.5
1.550	7.054	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.202	5.7
1.600	7.382	-9999.0	-9999.0	9999.0	9999.0	-9999.0	0.185	5.5
1.650	7.710	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.453	6.8
1.700	8.038	45.0	38.0	-0.15	-9999.0	-9999.0	1.077	10.0
1.750	8.366	54.0	42.0	-0.20	2.615	316.3	-9999.0	-9999.0
1.800	8.694	61.4	44.0	-0.20	2.148	135.3	-9999.0	-9999.0
1.850	9.027	30.5	38.0	-0.15	9999.0	9999.0	1.322	10.0
1.900	9.350	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.075	10.0
1.950	9.678	44.3	40.0	-0.21	3.103	205.0	2.217	10.0
2.000	10.006	51.6	42.0	-0.23	2.672	176.1	-9999.0	9999.0
2.050	10.335	41.8	40.0	-0.23	3.241	164.7	2.116	10.0

Run No: 01-0138-1256-1417
CPT File: 0101FP02.COA

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Qc (MPa)	Col-04 Fs (kPa)	Col-05 Rf (%)	Col-06 Pw (kPa)	Col-07 Qt (MPa)	Col-08 Ic	Col-09 Soil Type
1.000	3.281	0.500	0.000	0.000	0.000	0.500	0.000	0
1.050	3.445	0.500	0.000	0.000	0.000	0.500	0.000	0
1.100	3.609	0.500	0.000	0.000	0.000	0.500	0.000	0
1.150	3.773	0.500	0.000	0.000	0.000	0.500	0.000	0
1.200	3.937	0.500	0.000	0.000	0.000	0.500	0.000	0
1.250	4.101	0.500	0.000	0.000	0.000	0.500	0.000	0
1.300	4.265	0.500	0.000	0.000	0.000	0.500	0.000	0
1.350	4.429	0.500	0.000	0.000	0.000	0.500	0.000	0
1.400	4.593	0.500	0.000	0.000	0.000	0.500	0.000	0
1.450	4.757	0.500	0.000	0.000	0.000	0.500	0.000	0
1.500	4.921	0.500	0.000	0.000	0.000	0.500	0.000	0
1.550	5.085	0.500	0.000	0.000	0.000	0.500	0.000	0
1.600	5.249	0.500	0.000	0.000	0.000	0.500	0.000	0
1.650	5.413	0.500	0.000	0.000	0.000	0.500	0.000	0
1.700	5.577	0.500	0.000	0.000	0.000	0.500	0.000	0
1.750	5.741	0.500	0.000	0.000	0.000	0.500	0.000	0
1.800	5.905	0.500	0.000	0.000	0.000	0.500	0.000	0
1.850	6.069	0.500	0.000	0.000	0.000	0.500	0.000	0
1.900	6.233	0.500	0.000	0.000	0.000	0.500	0.000	0
1.950	6.397	0.500	0.000	0.000	0.000	0.500	0.000	0
2.000	6.562	0.500	0.000	0.000	0.000	0.500	0.000	0
2.050	6.726	0.500	0.000	0.000	0.000	0.500	0.000	0
2.100	6.890	0.500	0.000	0.000	0.000	0.500	0.000	0
2.150	7.054	0.500	0.000	0.000	0.000	0.500	0.000	0
2.200	7.218	0.500	0.000	0.000	0.000	0.500	0.000	0
2.250	7.382	0.500	0.000	0.000	0.000	0.500	0.000	0
2.300	7.546	0.500	0.000	0.000	0.000	0.500	0.000	0
2.350	7.710	0.500	0.000	0.000	0.000	0.500	0.000	0
2.400	7.874	0.500	0.000	0.000	0.000	0.500	0.000	0
2.450	8.038	0.500	0.000	0.000	0.000	0.500	0.000	0
2.500	8.202	0.500	0.000	0.000	0.000	0.500	0.000	0
2.550	8.366	0.500	0.000	0.000	0.000	0.500	0.000	0
2.600	8.530	0.500	0.000	0.000	0.000	0.500	0.000	0
2.650	8.694	0.500	0.000	0.000	0.000	0.500	0.000	0
2.700	8.858	0.500	0.000	0.000	0.000	0.500	0.000	0
2.750	9.022	0.500	0.000	0.000	0.000	0.500	0.000	0
2.800	9.186	0.500	0.000	0.000	0.000	0.500	0.000	0
2.850	9.350	0.500	0.000	0.000	0.000	0.500	0.000	0
2.900	9.514	0.500	0.000	0.000	0.000	0.500	0.000	0
2.950	9.678	0.500	0.000	0.000	0.000	0.500	0.000	0
3.000	9.843	0.500	0.000	0.000	0.000	0.500	0.000	0
3.050	10.007	0.500	0.000	0.000	0.000	0.500	0.000	0
3.100	10.171	0.500	0.000	0.000	0.000	0.500	0.000	0
3.150	10.335	0.500	0.000	0.000	0.000	0.500	0.000	0
3.200	10.499	0.500	0.000	0.000	0.000	0.500	0.000	0
3.250	10.663	0.500	0.000	0.000	0.000	0.500	0.000	0
3.300	10.827	0.500	0.000	0.000	0.000	0.500	0.000	0
3.350	10.991	0.500	0.000	0.000	0.000	0.500	0.000	0
3.400	11.155	0.500	0.000	0.000	0.000	0.500	0.000	0
3.450	11.319	0.500	0.000	0.000	0.000	0.500	0.000	0
3.500	11.483	0.500	0.000	0.000	0.000	0.500	0.000	0
3.550	11.647	0.500	0.000	0.000	0.000	0.500	0.000	0
3.600	11.811	0.500	0.000	0.000	0.000	0.500	0.000	0
3.650	11.975	0.500	0.000	0.000	0.000	0.500	0.000	0
3.700	12.139	0.500	0.000	0.000	0.000	0.500	0.000	0
3.750	12.303	0.500	0.000	0.000	0.000	0.500	0.000	0
3.800	12.467	0.500	0.000	0.000	0.000	0.500	0.000	0
3.850	12.631	0.500	0.000	0.000	0.000	0.500	0.000	0
3.900	12.795	0.500	0.000	0.000	0.000	0.500	0.000	0
3.950	12.959	0.500	0.000	0.000	0.000	0.500	0.000	0
4.000	13.123	0.500	0.000	0.000	0.000	0.500	0.000	0
4.050	13.287	0.500	0.000	0.000	0.000	0.500	0.000	0
4.100	13.451	0.500	0.000	0.000	0.000	0.500	0.000	0
4.150	13.615	0.500	0.000	0.000	0.000	0.500	0.000	0
4.200	13.780	0.500	0.000	0.000	0.000	0.500	0.000	0
4.250	13.944	0.500	0.000	0.000	0.000	0.500	0.000	0
4.300	14.108	0.500	0.000	0.000	0.000	0.500	0.000	0
4.350	14.272	0.500	0.000	0.000	0.000	0.500	0.000	0
4.400	14.436	0.500	0.000	0.000	0.000	0.500	0.000	0
4.450	14.600	0.500	0.000	0.000	0.000	0.500	0.000	0
4.500	14.764	0.500	0.000	0.000	0.000	0.500	0.000	0
4.550	14.928	0.500	0.000	0.000	0.000	0.500	0.000	0
4.600	15.092	0.500	0.000	0.000	0.000	0.500	0.000	0
4.650	15.256	0.500	0.000	0.000	0.000	0.500	0.000	0
4.700	15.420	0.500	0.000	0.000	0.000	0.500	0.000	0
4.750	15.584	0.500	0.000	0.000	0.000	0.500	0.000	0
4.800	15.748	0.500	0.000	0.000	0.000	0.500	0.000	0
4.850	15.912	0.500	0.000	0.000	0.000	0.500	0.000	0
4.900	16.076	0.500	0.000	0.000	0.000	0.500	0.000	0
4.950	16.240	0.500	0.000	0.000	0.000	0.500	0.000	0
5.000	16.404	0.500	0.000	0.000	0.000	0.500	0.000	0
5.050	16.568	0.500	0.000	0.000	0.000	0.500	0.000	0
5.100	16.732	0.500	0.000	0.000	0.000	0.500	0.000	0
5.150	16.896	0.500	0.000	0.000	0.000	0.500	0.000	0
5.200	17.060	0.500	0.000	0.000	0.000	0.500	0.000	0
5.250	17.224	0.500	0.000	0.000	0.000	0.500	0.000	0
5.300	17.388	0.500	0.000	0.000	0.000	0.500	0.000	0
5.350	17.552	0.500	0.000	0.000	0.000	0.500	0.000	0
5.400	17.717	0.500	0.000	0.000	0.000	0.500	0.000	0
5.450	17.881	0.500	0.000	0.000	0.000	0.500	0.000	0
5.500	18.045	0.500	0.000	0.000	0.000	0.500	0.000	0
5.550	18.209	0.500	0.000	0.000	0.000	0.500	0.000	0
5.600	18.373	0.500	0.000	0.000	0.000	0.500	0.000	0
5.650	18.537	0.500	0.000	0.000	0.000	0.500	0.000	0
5.700	18.701	0.500	0.000	0.000	0.000	0.500	0.000	0
5.750	18.865	0.500	0.000	0.000	0.000	0.500	0.000	0
5.800	19.029	0.500	0.000	0.000	0.000	0.500	0.000	0
5.850	19.193	0.500	0.000	0.000	0.000	0.500	0.000	0
5.900	19.357	0.500	0.000	0.000	0.000	0.500	0.000	0
5.950	19.521	0.500	0.000	0.000	0.000	0.500	0.000	0
6.000	19.685	0.500	0.000	0.000	0.000	0.500	0.000	0
6.050	19.849	0.500	0.000	0.000	0.000	0.500	0.000	0
6.100	20.013	0.500	0.000	0.000	0.000	0.500	0.000	0
6.150	20.177	0.500	0.000	0.000	0.000	0.500	0.000	0
6.200	20.341	0.500	0.000	0.000	0.000	0.500	0.000	0
6.250	20.505	0.500	0.000	0.000	0.000	0.500	0.000	0
6.300	20.669	0.500	0.000	0.000	0.000	0.500	0.000	0
6.350	20.833	0.500	0.000	0.000	0.000	0.500	0.000	0
6.400	20.997	0.500	0.000	0.000	0.000	0.500	0.000	0
6.450	21.161	0.500	0.000	0.000	0.000	0.500	0.000	0
6.500	21.325	0.500	0.000	0.000	0.000	0.500	0.000	0
6.550	21.489	0.500	0.000	0.000	0.000	0.500	0.000	0
6.600	21.654	0.500	0.000	0.000	0.000	0.500	0.000	0
6.650	21.818	0.500	0.000	0.000	0.000	0.500	0.000	0
6.700	21.982	0.500	0.000	0.000	0.000	0.500	0.000	0
6.750	22.146	0.500	0.000	0.000	0.000	0.500	0.000	0
6.800	22.310	0.500	0.000	0.000	0.000	0.500	0.000	0
6.850	22.474	0.500	0.000	0.000	0.000	0.500	0.000	0
6.900	22.638	0.500	0.000	0.000	0.000	0.500	0.000	0
6.950	22.802	0.500	0.000	0.000	0.000	0.500	0.000	0
7.000	22.966	0.500	0.000	0.000	0.000	0.500	0.000	0
7.050	23.130	0.500	0.000	0.000	0.000	0.500	0.000	0
7.100	23.294	0.500	0.000	0.000	0.000	0.500	0.000	0
7.150	23.458	0.500	0.000	0.000	0.000	0.500	0.000	0
7.200	23.622	0.500	0.000	0.000	0.000	0.500	0.000	0
7.250	23.786	0.500	0.000	0.000	0.000	0.500	0.000	0
7.300	23.950	0.500	0.000	0.000	0.000	0.500	0.000	0
7.350	24.114	0.500	0.000	0.000	0.000	0.500	0.000	0
7.400	24.278	0.500	0.000	0.000	0.000	0.500	0.000	0
7.450	24.442	0.500	0.000	0.000	0.000	0.500	0.000	0
7.500	24.606	0.500	0.000	0.000	0.000	0.500	0.000	0
7.550	24.770	0.500	0.000	0.000	0.000	0.500	0.000	0
7.600	24.934	0.500	0.000	0.000	0.000	0.500	0.000	0
7.650	25.098	0.500	0.000	0.000	0.000	0.500	0.000	0
7.700	25.262	0.500	0.000	0.000	0.000	0.500	0.000	0
7.750	25.426	0.500	0.000	0.000	0.000	0.500	0.000	0
7.800	25.591	0.500	0.000	0.000	0.000	0.500	0.000	0
7.850	25.755	0.500	0.000	0.000	0.000	0.500	0.000	0
7.900	25.919	0.500	0.000	0.000	0.000	0.500	0.000	0
7.950	26.083	0.500	0.000	0.000	0.000	0.500	0.000	0
8.000	26.247	0.500	0.000	0.000	0.000	0.500	0.000	0
8.050	26.411	0.500	0.000	0.000	0.000	0.500	0.000	0
8.100	26.575	0.500	0.000	0.000	0.000	0.500	0.000	0
8.150	26.739	0.500	0.000	0.000	0.000	0.500	0.000	0
8.200	26.903	0.500	0.000	0.000	0.000	0.500	0.000	0
8.250	27.067	0.500	0.000	0.000	0.000	0.500	0.000	0
8.300	27.231	0.500	0.000	0.000	0.000	0.500	0.000	0
8.350	27.395	0.500	0.000	0.000	0.000	0.500	0.000	0
8.400	27.559	0.500	0.000	0.000	0.000	0.500	0.000	0
8.450	27.723	0.500	0.000	0.000	0.000	0.500	0.000	0
8.500	27.887	0.500	0.000	0.000	0.000	0.500	0.000	0
8.550	28.051	0.500	0.000	0.000	0.000	0.500	0.000	0
8.600	28.215	0.500	0.000	0.000	0.000	0.500	0.000	0
8.650	28.379	0.500	0.000	0.000	0.000	0.500	0.000	0
8.700	28.543	0.500	0.000	0.000	0.000	0.500	0.000	0
8.750	28.707	0.500	0.000	0.000	0.000	0.500	0.000	0
8.800	28.871	0.500	0.000	0.000	0.000	0.500	0.000	0
8.850	29.035	0.500	0.000	0.000	0.000	0.500	0.000	0
8.900	29.199	0.500	0.000	0.000	0.000	0.500	0.000	0
8.950	29.363	0.500	0.000	0.000	0.000	0.500	0.000	0
9.000	29.527	0.500	0.000	0.000	0.000	0.500	0.000	0
9.050	29.691	0.500	0.000	0.000	0.000	0.500	0.000	0
9.100	29.855	0.500	0.000	0.000	0.000	0.500	0.000	0

Run No: 05-0308-1756-5417
CPT File: TOICPT2.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Qt (%)	Col-31 Phi (deg)	Col-32 State Par	Col-33 Ib/qc	Col-34 YoungS (tsf)	Col-35 Nu (coef)	Col-36 OCR
9.050	30.067	-9959.0	-9995.0	-9999.0	-9999.0	-9999.0	1.555	5.2
9.100	30.476	-9999.0	9995.0	-9999.0	-9999.0	-9999.0	1.866	6.7
9.150	30.636	-9999.0	-9995.0	-9999.0	-9999.0	-9999.0	1.521	6.9
9.200	30.732	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.601	5.4
9.250	30.880	-9999.0	-9999.0	-9991.0	-9999.0	-9999.0	1.659	6.4
9.300	30.984	-9999.0	-9999.0	-9991.0	-9999.0	-9999.0	1.736	5.6
9.350	30.116	-9999.0	-9999.0	-9995.0	-9999.0	-9999.0	1.556	6.6
9.400	30.844	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.751	5.8
10.000	32.972	-9991.0	-9999.0	-9992.0	-9999.0	-9999.0	2.556	10.0
10.150	33.300	-9991.0	-9999.0	-9959.0	-9999.0	-9999.0	2.285	8.5
10.200	33.458	97.5	10.0	-0.10	-9999.0	-9999.0	2.446	10.0
10.250	33.956	-9991.0	-9999.0	-9995.0	-9999.0	-9999.0	2.107	7.6
10.400	34.284	-9995.0	-9999.0	-9995.0	-9999.0	-9999.0	2.242	8.0
10.550	34.612	-9993.0	-9999.0	-9993.0	-9999.0	-9999.0	2.423	9.5
10.600	34.961	-9999.0	-9999.0	9969.0	9959.0	9999.0	2.676	10.0
10.750	35.269	9999.0	9959.0	-9993.0	-9999.0	-9999.0	1.332	2.5
10.850	35.597	-9999.0	-9959.0	-9992.0	-9999.0	-9999.0	0.439	1.5
10.900	35.925	30.0	10.0	0.09	-9999.0	-9999.0	0.420	1.3
11.050	36.243	-9993.0	-9999.0	-9999.0	-9999.0	-9999.0	0.572	1.2
11.150	36.581	30.0	10.0	0.09	-9199.0	-9999.0	0.541	1.5
11.200	36.909	30.0	10.0	0.09	-9199.0	-9999.0	0.565	1.6
11.350	37.237	30.0	10.0	0.08	-9199.0	-9999.0	0.704	1.5
11.400	37.565	30.0	10.0	0.08	-9199.0	-9999.0	0.751	1.5
11.550	37.891	31.0	10.0	0.07	-9299.0	-9999.0	0.762	1.6
11.600	38.221	31.0	10.0	0.07	-9595.0	-9999.0	0.582	1.7
11.750	38.545	31.0	10.0	0.08	-9999.0	-9999.0	0.744	1.5
11.850	38.877	30.0	10.0	0.09	-9997.0	-9999.0	0.895	1.4
11.900	39.205	30.0	10.0	0.09	-9999.0	-9999.0	0.691	1.4
12.050	39.533	30.0	10.0	0.08	-9999.0	-9999.0	0.710	1.5
12.100	39.862	30.0	10.0	0.08	9999.0	9999.0	0.795	1.6
12.250	40.190	-9999.0	-9995.0	9999.0	-9999.0	-9999.0	0.665	1.3
12.300	40.518	30.0	10.0	0.10	9999.0	-9999.0	0.581	1.3
12.450	40.846	30.0	10.0	0.11	9999.0	9999.0	0.626	1.2
12.500	41.174	-9999.0	-9995.0	-9999.0	9999.0	9999.0	0.608	1.2
12.650	41.502	30.0	10.0	0.11	9999.0	-9999.0	0.624	1.2
12.700	41.830	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.629	1.2
12.850	42.158	30.0	10.0	0.10	9999.0	-9999.0	0.668	1.3
12.900	42.486	30.0	10.0	0.09	9999.0	9999.0	0.716	1.4
13.050	42.814	9999.0	9999.0	-9999.0	9999.0	9999.0	0.681	1.3
13.100	43.142	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.663	1.3
13.250	43.470	-9999.0	-9997.0	-9999.0	9999.0	9999.0	0.614	1.2
13.300	43.799	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.645	1.2
13.450	44.127	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.650	1.2
13.500	44.455	30.0	10.0	0.05	9999.0	9999.0	0.685	1.3
13.650	44.783	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.555	1.2
13.700	45.111	30.0	10.0	0.10	9999.0	9999.0	0.659	1.2
13.850	45.439	30.0	10.0	0.09	9999.0	9999.0	1.946	1.2
13.900	45.767	9999.0	9999.0	9999.0	9999.0	9999.0	0.668	1.2
14.050	46.095	9999.0	9997.0	9999.0	9999.0	9999.0	0.615	1.1
14.100	46.423	9999.0	9999.0	9999.0	9999.0	9999.0	0.520	1.0
14.250	46.751	9999.0	9999.0	9999.0	9999.0	9999.0	0.592	1.0
14.300	47.079	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.556	1.0
14.450	47.408	30.0	10.0	0.11	9999.0	9999.0	0.642	1.2
14.500	47.736	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.632	1.0
14.650	48.064	9999.0	9999.0	9999.0	9999.0	9999.0	0.672	1.0
14.700	48.392	30.0	10.0	0.11	9999.0	9999.0	0.648	1.2
14.850	48.720	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.571	1.0
14.900	49.048	30.0	10.0	0.11	9999.0	9999.0	0.586	1.0
15.050	49.376	30.0	10.0	0.12	9999.0	9999.0	0.620	1.1
15.100	49.704	30.0	10.0	0.11	9999.0	9999.0	0.616	1.0

Run No: 05-0218-1259-5417
CPT File: 0218P10.CPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Qc (t/s)	Col-11 Fs (kPa)	Col-12 Rf (%)	Col-13 Qt/qt	Col-14 Youngs (tsf)	Col-15 Su (kPa)	Col-16 OCR
15.250	50.032	33.0	20.0	0.10	-9999.0	-9999.0	0.611	1.0
15.390	50.490	38.0	20.0	0.14	-9999.0	-9999.0	0.641	1.1
15.490	50.818	39.0	20.0	0.14	-9999.0	-9999.0	0.629	1.0
15.590	51.014	39.0	20.0	0.12	-9999.0	-9999.0	0.655	1.1
15.690	51.345	39.0	20.0	0.12	-9999.0	-9999.0	0.681	1.1
15.790	51.673	39.0	20.0	0.15	-9999.0	-9999.0	0.585	1.0
15.890	52.001	39.0	20.0	0.14	-9999.0	-9999.0	0.610	1.0
15.990	52.329	39.0	20.0	0.14	-9999.0	-9999.0	0.592	1.0
16.090	52.657	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.573	0.9
16.250	52.986	33.0	24.0	-0.24	4.027	181.5	-9999.0	-9999.0
16.350	53.314	51.0	18.0	-0.10	2.911	264.1	-9999.0	-9999.0
16.450	53.642	33.0	14.0	-0.07	4.048	183.5	-9999.0	-9999.0
16.550	53.969	15.0	17.0	0.20	-9999.0	-9999.0	-9999.0	-9999.0
16.650	54.297	33.0	33.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
16.750	54.625	33.0	33.0	0.10	-9999.0	-9999.0	0.700	1.2
16.850	54.953	15.0	19.0	0.16	-9999.0	-9999.0	0.671	1.1
16.950	55.281	15.0	18.0	0.17	-9999.0	-9999.0	0.690	1.1
17.050	55.610	39.0	19.0	0.13	-9999.0	-9999.0	0.747	1.2
17.150	55.938	39.0	20.0	0.10	-9999.0	-9999.0	0.804	1.4
17.250	56.266	18.0	20.0	0.09	-9999.0	-9999.0	0.835	1.5
17.350	56.594	20.0	19.0	0.07	-9999.0	-9999.0	0.862	1.5
17.450	56.922	18.0	18.0	0.07	-9999.0	-9999.0	0.894	1.6
17.550	57.250	20.0	20.0	0.12	-9999.0	-9999.0	0.655	1.1
17.650	57.578	20.0	20.0	0.10	-9999.0	-9999.0	0.685	1.2
17.750	57.906	18.0	20.0	0.10	-9999.0	-9999.0	0.675	1.2
17.850	58.234	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.495	0.8
17.950	58.563	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.531	0.9
18.050	58.891	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.607	1.1
18.150	59.219	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.964	1.7
18.250	59.547	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.213	2.2
18.350	59.875	17.1	34.0	0.14	9999.0	-9999.0	2.476	4.7
18.450	60.203	43.4	38.0	0.10	2.653	318.2	-9999.0	-9999.0
18.550	60.531	46.1	40.0	-0.16	2.452	462.9	-9999.0	-9999.0
18.650	60.859	47.0	40.0	-0.17	2.412	476.2	-9999.0	-9999.0
18.750	61.187	41.4	40.0	-0.19	2.446	367.3	-9999.0	-9999.0
18.850	61.515	41.2	40.0	-0.21	2.627	327.4	-9999.0	-9999.0
18.950	61.843	51.0	36.0	0.32	3.031	218.1	5.594	10.0
19.050	62.171	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	5.211	9.8
19.150	62.497	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	6.048	10.8
19.250	62.827	19.6	34.0	0.30	-9999.0	-9999.0	-9999.0	-9999.0
19.350	63.155	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	2.935	5.2
19.450	63.483	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.924	5.2
19.550	63.811	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.672	3.0
19.650	64.140	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	5.461	10.0
19.750	64.468	50.8	26.0	-0.25	3.867	341.4	5.535	10.0
19.850	64.796	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.794	6.8
19.950	65.124	40.4	24.0	-0.35	-9999.0	-9999.0	-9999.0	-9999.0
20.050	65.452	44.0	25.0	0.16	-9999.0	-9999.0	-9999.0	-9999.0
20.150	65.780	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.171	5.7
20.250	66.108	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.346	6.0
20.350	66.436	40.8	34.0	-0.49	-9999.0	-9999.0	-9999.0	-9999.0
20.450	66.764	51.3	40.0	-0.43	3.383	351.3	9999.0	9999.0
20.550	67.092	54.0	38.0	-0.41	3.126	372.6	-9999.0	-9999.0
20.650	67.420	57.4	38.0	-0.41	3.324	391.5	-9999.0	-9999.0
20.750	67.749	58.0	38.0	-0.35	3.481	401.6	-9999.0	-9999.0
20.850	68.077	44.7	36.0	-0.50	-9999.0	-9999.0	-9999.0	-9999.0
20.950	68.405	47.0	36.0	-0.46	4.185	332.4	-9999.0	-9999.0
21.050	68.733	50.6	38.0	-0.52	3.980	356.3	-9999.0	9999.0
21.150	69.061	45.1	36.0	-0.62	9999.0	9999.0	9999.0	-9999.0
21.250	69.389	45.9	36.0	0.75	9999.0	9999.0	9999.0	-9999.0

Run No: CP-0108-1898-4417
CPT File: 721CP07.COR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-30 DT (us)	Col-31 Pha (deg)	Col-32 Slope Dar	Col-33 SS/Qt	Col-34 Young((psi)	Col-35 Ro (ref)	Col-36 GCR
21.900	71.457	44.1	36.0	-0.55	-9999.0	-9999.0	-9999.0	-9999.0
21.950	72.621	48.5	36.0	-0.55	-9999.0	-9999.0	-9999.0	-9999.0
22.000	72.783	48.3	36.0	-0.48	-9999.0	1691.0	-9999.0	-9999.0
22.050	72.932	43.3	36.0	-0.44	-9999.0	-9999.0	9999.0	9999.0
22.100	73.079	43.1	36.0	-0.54	-9999.0	-1992.0	-9999.0	-9999.0
22.150	73.247	43.1	36.0	-0.52	-9999.0	-1991.0	-9999.0	9999.0
22.200	73.405	45.2	36.0	-0.57	-9999.0	-9999.0	-9999.0	-9999.0
22.250	73.614	51.0	38.0	-0.64	4.010	375.0	-1993.0	-9999.0
22.250	73.562	38.3	34.0	-0.72	-9999.0	-9999.0	-9999.0	-9999.0
22.150	73.670	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.583	6.4
22.250	73.598	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.761	2.6
22.350	73.726	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.597	2.2
22.450	73.854	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.661	2.3
22.550	73.982	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.784	2.6
22.650	74.110	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.881	2.6
22.750	74.238	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.864	2.7
22.850	74.366	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.875	2.7
22.950	74.494	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.868	2.6
23.050	74.622	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.853	2.3
23.150	74.751	9999.0	9999.0	9999.0	9999.0	9999.0	1.747	2.4
23.250	74.879	9999.0	9999.0	9999.0	9999.0	9999.0	2.051	3.0
23.350	75.007	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.162	3.2
23.450	75.135	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.044	3.0
23.550	75.263	-9999.0	9999.0	9999.0	9999.0	-9999.0	1.969	2.9
23.650	75.391	-9999.0	-9999.0	9999.0	9999.0	-9999.0	1.935	2.7
23.750	75.519	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.127	3.1
23.850	75.647	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.115	3.1
23.950	75.775	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.920	2.7
24.050	75.903	-9999.0	-9999.0	9999.0	9999.0	-9999.0	1.933	2.8
24.150	75.031	-9999.0	-9999.0	9999.0	9999.0	9999.0	2.259	3.4
24.250	75.559	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.425	3.7
24.350	75.687	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.131	3.2
24.450	80.216	-9999.0	-9999.0	-9999.0	9999.0	9999.0	2.258	2.9
24.510	80.544	-9999.0	-9999.0	9999.0	9999.0	9999.0	2.561	2.7
24.670	80.872	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.855	2.5
24.730	81.200	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.197	1.5
24.830	81.528	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.110	1.3
24.930	81.856	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.983	1.1
25.030	82.184	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.077	1.3
25.130	82.512	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.184	1.4
25.230	82.840	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.442	1.7
25.330	83.168	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.582	1.9
25.430	83.496	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.626	2.0
25.530	83.824	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.560	1.9
25.630	84.153	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.404	1.7
25.730	84.481	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.316	1.6
25.830	84.809	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.413	1.7
25.930	85.137	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.497	1.8
26.030	85.465	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.570	1.9
26.130	85.793	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.628	2.0
26.230	86.121	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.682	2.0
26.330	86.449	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.854	2.3
26.430	86.777	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.947	2.5
26.530	87.105	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.743	2.1
26.630	87.433	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.735	2.1
26.730	87.761	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.050	2.7
26.830	88.089	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.330	3.1
26.930	88.418	9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.154	2.7
27.030	88.746	9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.134	4.8
27.130	89.074	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.008	2.5

Run No 05-0300-1216-5417
CPT File 7217P02.DOR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Qt (%)	Col-31 Phi (deg)	Col-32 State Par	Col-33 Es/qt	Col-34 YoungE (tsf)	Col-35 Su (tsf)	Col-36 OCR
27.250	89.402	9999.0	9999.0	9999.0	-9999.0	-9999.0	1.008	4.5
27.350	89.710	48.0	36.0	-0.21	-9999.0	-9999.0	5.713	10.5
27.450	90.056	55.2	38.0	-0.18	3.047	156.3	-9999.0	-9999.0
27.550	90.326	53.5	38.0	-0.14	3.126	146.9	-9999.0	-9999.0
27.650	90.714	51.0	36.0	-0.14	3.265	331.6	-9999.0	-9999.0
27.750	91.042	54.1	38.0	-0.11	3.107	351.5	-9999.0	-9999.0
27.850	91.370	49.4	36.0	-0.15	3.158	321.6	-9999.0	-9999.0
27.950	91.678	46.3	36.0	-0.14	-9999.0	9995.6	-9999.0	-9999.0
28.050	92.076	49.9	36.0	-0.13	3.137	127.5	-9999.0	-9999.0
28.150	92.355	52.5	36.0	-0.11	3.198	144.0	9999.0	-9999.0
28.250	92.653	45.3	34.0	-0.12	3.606	101.2	-9999.0	9999.0
28.350	93.011	45.0	34.0	-0.12	3.632	101.7	-9999.0	-9999.0
28.450	93.319	55.3	38.0	-0.12	3.059	165.1	9999.0	9999.0
28.550	93.657	48.5	36.0	-0.05	3.426	122.9	9999.0	9999.0

Interpretation Output: - Robinson 7.21 Rev. 6 - Build 5 Format: USP Imperial

Run No: 05-0104-1214-0503
Job No: 05-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT 05 003
Location: Pigeon Point
Cone: 20 TON AD157
CPT Date: 05/04/05
CPT Time: 13:36
CPT File: 721CP01.DOR
Northing [ft]: 0.000000
Easting [ft]: 0.000000
Elevation [ft]: 0.000000

Water Table (ft): 5.00 (ft): 19.7
Unit Weight of Water (default) 62.43 pcf
Averaging Increment (ft): 0.10
Qc Cut Used: 15.00 Su/P Incr: 0.30
Ic Method : Jamiolkowski - All Sands
Alpha Parameter N: 1.20
Used Unit Weights Assigned to Soil Zones
Nkt(c) Calculated using qnet
N(60) Calculated using qc/Pa

Col 01 Depth (ft)	Col 02 Depth (ft)	Col 03 Elev. (ft)	Col 04 Elev. (ft)	Col 05 qc (tsf)	Col 06 qt (tsf)	Col 07 fs (tsf)	Col 08 Rf (%)	Col 09 u (psi)	Col 10 SBT (Zone)	Col 11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	-2.11	2.38	0.02	0.66	15.43	1	6
0.150	0.492	-0.150	-0.492	4.64	4.66	0.04	1.00	0.03	1	6
0.250	0.821	-0.250	-0.820	20.61	20.67	0.13	0.63	12.46	1	7
0.350	1.148	-0.350	-1.148	45.02	46.15	0.24	0.64	1.15	1	7
0.450	1.476	-0.450	-1.476	46.80	46.79	0.27	0.64	-7.36	1	7
0.550	1.804	-0.550	-1.804	29.62	29.78	0.17	0.58	-7.16	1	6
0.650	2.133	-0.650	-2.133	21.37	21.53	0.19	1.06	-7.17	1	6
0.750	2.461	-0.750	-2.461	9.51	11.52	0.05	0.59	-3.12	1	6
0.850	2.789	-0.850	-2.789	14.21	14.32	0.14	0.95	0.29	1	6
0.950	3.117	-0.950	-3.117	14.44	14.58	0.20	1.38	10.14	1	5
1.050	3.445	-1.050	-3.445	18.38	18.83	0.39	2.05	10.55	1	5
1.150	3.773	-1.150	-3.773	13.28	13.62	0.42	3.10	24.83	1	5
1.250	4.101	-1.250	-4.101	9.32	9.62	0.27	2.81	21.61	1	4
1.350	4.429	-1.350	-4.429	15.49	15.85	0.46	2.91	14.80	1	5
1.450	4.757	-1.450	-4.757	26.06	26.20	0.51	1.93	26.90	1	5
1.550	5.085	-1.550	-5.085	20.79	20.93	0.24	1.13	30.56	1	5
1.650	5.413	-1.650	-5.413	17.19	17.80	0.17	0.95	1.61	1	5
1.750	5.741	-1.750	-5.741	38.25	38.54	0.56	1.45	10.74	1	6
1.850	6.069	-1.850	-6.069	22.94	22.84	0.56	2.44	8.16	1	5
1.950	6.398	-1.950	-6.398	52.51	52.69	0.57	1.09	36.39	1	6
2.050	6.726	-2.050	-6.726	89.05	89.27	0.86	0.97	38.93	1	6
2.150	7.054	-2.150	-7.054	67.56	67.56	0.54	1.14	0.18	1	6
2.250	7.382	-2.250	-7.382	11.66	11.66	0.45	3.83	0.17	1	4
2.350	7.710	-2.350	-7.710	17.82	17.97	0.63	3.51	15.64	1	4
2.450	8.038	-2.450	-8.038	29.65	29.84	1.10	3.73	15.64	1	4
2.550	8.366	-2.550	-8.366	34.67	34.89	1.29	3.70	3.32	1	4
2.650	8.694	-2.650	-8.694	30.65	30.88	0.69	2.24	5.65	1	5
2.750	9.022	-2.750	-9.022	13.03	13.04	0.35	2.69	1.34	1	4
2.850	9.350	-2.850	-9.350	15.49	15.53	0.53	3.45	17.24	1	4
2.950	9.678	-2.950	-9.678	13.57	13.75	0.34	2.48	11.36	1	4
3.050	10.006	-3.050	-10.006	5.59	5.61	0.11	1.96	3.43	1	3
3.150	10.335	-3.150	-10.335	33.62	33.80	0.25	0.76	-4.62	1	6

Run No: 15-0108-1359-5520
CPT File: 721CP01.COR

Col 01 Depth (m)	Col 02 Depth (ft)	Col 03 Elev. (m)	Col 04 Elev. (ft)	Col 05 qc (tsf)	Col 06 qt (tsf)	Col 07 fs (tsf)	Col 08 Rf (%)	Col 09 u (psi)	Col 10 SBT (Zone)	Col 11 SBTn (Zone)
3.250	10.663	-1.250	-10.663	27.10	27.11	0.65	3.03	27.14	5	4
3.350	10.991	-1.350	-10.991	58.20	58.24	1.13	1.94	7.49	7	5
3.450	11.319	-1.450	-11.319	32.70	32.68	0.53	2.05	-4.14	6	4
3.550	11.647	-1.550	-11.647	11.53	11.55	0.18	1.55	4.66	5	4
3.650	11.975	-1.650	-11.975	31.72	31.66	0.62	1.92	17.16	7	5
3.750	12.303	-1.750	-12.303	44.24	44.32	0.86	1.89	17.25	6	5
3.850	12.631	-1.850	-12.631	50.94	50.96	0.89	1.75	1.35	7	5
3.950	12.959	-1.950	-12.959	25.61	25.74	0.56	2.19	12.36	6	5
4.050	13.287	-2.050	-13.287	7.19	7.20	0.16	2.23	2.31	6	3
4.150	13.615	-2.150	-13.615	19.41	19.41	0.05	0.27	0.74	8	1
4.250	13.943	-2.250	-13.943	15.10	15.11	0.18	1.19	1.05	6	5
4.350	14.271	-2.350	-14.271	31.24	31.14	0.45	1.44	22.05	6	5
4.450	14.600	-2.450	-14.600	32.35	31.57	0.80	2.49	14.17	6	4
4.550	14.928	-2.550	-14.928	45.19	45.14	1.13	2.49	4.11	6	5
4.650	15.256	-2.650	-15.256	66.35	66.13	1.30	1.95	11.28	7	5
4.750	15.584	-2.750	-15.584	66.55	66.85	1.37	1.99	3.54	7	5
4.850	15.912	-2.850	-15.912	34.35	34.35	1.21	3.53	4.37	5	4
4.950	16.240	-2.950	-16.240	46.55	47.07	1.33	2.82	24.22	6	5
5.050	16.568	-3.050	-16.568	62.70	62.70	2.35	3.75	-0.07	5	4
5.150	16.896	-3.150	-16.896	32.72	35.72	1.52	5.84	-1.91	5	4
5.250	17.224	-3.250	-17.224	62.39	62.93	2.04	3.26	11.97	6	4
5.350	17.552	-3.350	-17.552	35.17	35.06	1.81	5.11	2.89	6	4
5.450	17.880	-3.450	-17.880	27.60	27.61	1.43	5.54	1.84	6	5
5.550	18.208	-3.550	-18.208	12.01	12.02	0.63	5.56	1.94	4	3
5.650	18.537	-3.650	-18.537	20.26	20.31	0.41	2.09	1.17	5	4
5.750	18.865	-3.750	-18.865	16.52	16.53	0.52	3.19	2.04	5	3
5.850	19.193	-3.850	-19.193	15.31	15.32	0.62	4.03	1.19	4	4
5.950	19.521	-3.950	-19.521	25.54	21.01	0.41	1.54	24.63	4	5
6.050	19.849	-4.050	-19.849	12.34	12.49	0.13	1.01	10.51	4	4
6.150	20.177	-4.150	-20.177	17.50	17.62	0.36	1.93	6.16	5	4
6.250	20.505	-4.250	-20.505	12.13	12.17	0.16	0.96	0.37	5	5
6.350	20.833	-4.350	-20.833	26.57	26.55	0.72	2.53	26.20	5	4
6.450	21.161	-4.450	-21.161	19.74	19.32	0.52	3.14	17.33	5	4
6.550	21.489	-4.550	-21.489	55.29	55.32	0.35	1.42	7.02	7	5
6.650	21.817	-4.650	-21.817	32.42	32.47	0.60	2.76	0.59	5	4
6.750	22.145	-4.750	-22.145	22.01	22.07	0.30	3.16	15.09	5	4
6.850	22.473	-4.850	-22.473	56.25	56.30	0.10	0.53	22.21	6	5
6.950	22.802	-4.950	-22.802	28.30	28.34	0.35	1.62	9.79	5	4
7.050	23.130	-5.050	-23.130	25.14	25.11	0.61	2.72	6.27	5	5
7.150	23.458	-5.150	-23.458	27.33	27.37	0.42	1.45	13.93	6	4
7.250	23.786	-5.250	-23.786	17.32	17.17	0.24	1.38	11.61	7	5
7.350	24.114	-5.350	-24.114	61.14	61.18	0.87	1.41	8.55	7	5
7.450	24.442	-5.450	-24.442	33.51	33.67	1.26	3.74	24.09	5	4
7.550	24.770	-5.550	-24.770	22.75	25.05	1.05	4.15	22.19	4	3
7.650	25.098	-5.650	-25.098	34.49	34.54	0.74	2.15	9.35	6	4
7.750	25.426	-5.750	-25.426	23.75	23.84	0.81	3.52	12.63	5	4
7.850	25.754	-5.850	-25.754	35.17	35.20	0.82	2.36	7.14	6	4
7.950	26.082	-5.950	-26.082	38.65	38.74	0.93	2.66	12.22	6	4
8.050	26.410	-6.050	-26.410	32.90	32.95	1.01	3.13	3.63	5	4
8.150	26.739	-6.150	-26.739	25.41	24.50	0.61	2.37	11.35	6	4
8.250	27.067	-6.250	-27.067	20.34	21.03	0.80	3.79	5.84	6	3
8.350	27.395	-6.350	-27.395	25.34	25.11	0.80	3.19	13.93	5	4
8.450	27.723	-6.450	-27.723	37.25	37.32	0.95	2.56	11.33	6	4
8.550	28.051	-6.550	-28.051	51.17	51.21	1.31	2.55	9.71	6	4
8.650	28.379	-6.650	-28.379	24.59	24.86	0.94	3.53	14.74	6	3
8.750	28.707	-6.750	-28.707	13.83	14.02	0.34	2.48	111.64	6	4
8.850	29.035	-6.850	-29.035	14.83	17.12	0.23	1.33	67.23	6	3
8.950	29.363	-6.950	-29.363	24.14	24.41	0.55	2.40	15.51	6	4
9.050	29.691	-7.050	-29.691	18.69	18.74	0.26	1.55	12.46	6	4
9.150	30.019	-7.150	-30.019	56.82	56.86	1.13	2.31	12.42	6	4

Run No: [illegible]
CPT File: [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col.06 qt (tsf)	Col 07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col 11 SBTn (Zone)
9.210	30.347	-9.250	-30.347	40.28	40.71	0.66	2.54	13.65	6	6
9.380	30.605	-9.350	-30.675	29.32	29.41	0.11	1.78	19.45	5	3
9.450	31.004	-9.450	-31.004	35.72	39.61	1.14	1.87	16.42	5	4
9.550	31.332	-9.550	-31.332	31.62	30.64	1.36	3.51	13.55	5	4
9.650	31.660	-9.650	-31.660	41.24	41.29	1.23	2.97	10.24	5	4
9.750	31.988	-9.750	-31.988	65.45	60.11	1.10	2.14	12.49	7	5
9.850	32.316	-9.850	-32.316	40.23	40.27	1.26	3.14	10.56	5	4
9.950	32.644	-9.950	-32.644	37.05	36.31	1.15	3.18	10.50	5	4
10.050	32.972	-10.050	-32.972	42.17	42.81	1.19	2.78	7.55	5	4
10.146	33.302	-10.150	-33.138	33.04	34.57	1.12	3.05	12.55	5	4
10.250	33.629	-10.250	-33.628	29.29	29.45	0.93	3.16	10.93	5	4
10.350	33.956	-10.350	-33.956	24.31	24.37	0.82	3.76	12.23	4	3
10.450	34.284	-10.450	-34.284	25.59	25.60	0.97	3.77	14.17	5	3
10.550	34.612	-10.550	-34.612	35.55	35.62	1.07	3.01	14.50	5	4
10.650	34.941	-10.650	-34.941	25.40	25.55	0.94	3.66	11.59	5	3
10.750	35.269	-10.750	-35.269	21.88	22.22	0.90	4.04	66.65	4	3
10.850	35.597	-10.850	-35.597	32.45	32.64	1.11	3.41	29.56	5	4
10.950	35.925	-10.950	-35.925	29.80	37.00	1.41	4.91	42.66	4	3
11.050	36.253	-11.050	-36.253	34.53	34.71	1.37	3.74	29.26	5	4
11.150	36.581	-11.150	-36.581	49.51	49.62	1.42	2.86	21.58	6	5
11.250	36.909	-11.250	-36.905	39.39	39.45	1.41	3.57	13.84	5	4
11.350	37.237	-11.350	-37.237	29.36	29.42	1.05	3.60	13.93	5	3
11.450	37.565	-11.450	-37.565	27.60	27.56	1.02	3.66	17.15	5	3
11.550	37.893	-11.550	-37.893	44.31	44.17	1.26	2.90	10.41	6	4
11.650	38.221	-11.650	-38.221	28.91	29.02	1.14	3.94	24.24	6	3
11.750	38.549	-11.750	-38.549	27.66	27.75	1.10	3.98	16.24	5	3
11.850	38.877	-11.850	-38.877	31.72	31.80	1.13	3.56	16.15	5	3
11.950	39.204	-11.950	-39.206	33.76	33.81	1.08	3.20	13.39	5	4
12.050	39.532	-12.050	-39.534	81.25	81.36	1.08	2.51	15.37	8	5
12.150	39.860	-12.150	-39.862	55.54	55.62	1.38	2.49	14.33	6	4
12.250	40.190	-12.250	-40.190	29.77	29.80	0.91	3.04	23.26	5	3
12.350	40.518	-12.350	-40.518	31.91	31.90	0.16	1.19	16.65	7	4
12.450	40.846	-12.450	-40.846	35.95	36.04	0.26	0.72	15.21	7	5
12.550	41.174	-12.550	-41.174	41.96	42.01	0.37	0.88	15.80	7	5
12.650	41.502	-12.650	-41.502	42.87	42.95	0.41	0.96	15.55	7	5
12.750	41.830	-12.750	-41.830	33.25	33.37	0.46	1.37	17.35	7	4
12.850	42.158	-12.850	-42.158	40.56	40.64	0.42	1.02	16.40	7	5
12.950	42.486	-12.950	-42.486	42.26	42.34	0.43	1.01	17.12	7	5
13.050	42.814	-13.050	-42.814	42.77	42.86	0.41	0.94	18.34	7	5
13.150	43.143	-13.150	-43.143	51.62	51.60	0.40	0.78	17.76	8	5
13.250	43.471	-13.250	-43.471	25.59	25.68	0.30	1.15	58.59	5	4
13.350	43.799	-13.350	-43.799	13.76	13.87	0.13	0.91	13.58	6	4
13.450	44.127	-13.450	-44.127	15.92	15.96	0.09	0.61	69.79	6	4
13.550	44.455	-13.550	-44.455	15.49	15.59	0.07	0.42	10.23	6	4
13.650	44.783	-13.650	-44.783	13.94	13.87	0.04	0.29	48.34	6	1
13.750	45.111	-13.750	-45.111	10.11	10.11	0.05	0.35	46.56	6	1
13.850	45.439	-13.850	-45.439	10.87	11.11	0.06	0.45	80.66	6	4
13.950	45.767	-13.950	-45.767	13.19	13.46	0.05	0.34	66.19	6	1
14.050	46.095	-14.050	-46.095	13.79	13.53	0.05	0.41	45.91	6	1
14.150	46.423	-14.150	-46.423	13.19	13.45	0.06	0.44	59.88	6	4
14.250	46.751	-14.250	-46.751	13.09	13.27	0.04	0.35	38.43	6	1
14.350	47.079	-14.350	-47.079	13.42	13.70	0.05	0.31	60.49	6	1
14.450	47.408	-14.450	-47.408	13.33	14.01	0.05	0.36	54.22	6	1
14.550	47.736	-14.550	-47.736	13.19	13.68	0.05	0.37	53.51	6	1
14.650	48.064	-14.650	-48.064	14.65	15.06	0.09	0.57	15.97	6	4
14.750	48.392	-14.750	-48.392	15.03	15.16	0.05	0.33	31.90	6	1
14.850	48.720	-14.850	-48.720	14.02	14.27	0.04	0.28	53.81	6	1
14.950	49.049	-14.950	-49.048	13.67	13.97	0.05	0.32	59.34	6	1
15.050	49.376	-15.050	-49.376	13.73	14.04	0.05	0.32	73.33	6	1
15.150	49.704	-15.150	-49.704	13.42	13.98	0.04	0.26	78.71	6	1

Run No: 05 0100 1258 5502
CPT File: 7210703.CCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 Is	Col-08 Rf (%)	Col-09 u (ft)	Col 10 SBT (Zone)	Col-11 SBTn (Zone)
15.350	50.302	-15.350	-50.352	13.45	13.81	0.01	0.25	76.29	6	1
15.390	50.360	-15.350	-50.360	13.86	14.25	0.06	0.42	82.71	6	4
15.450	50.688	-15.450	-50.688	13.63	14.22	0.06	0.42	82.65	6	4
15.550	51.016	-15.550	-51.016	13.50	13.48	0.05	0.66	82.59	6	4
15.665	51.345	-15.650	-51.345	14.85	15.19	0.01	0.43	91.92	6	4
15.755	51.673	-15.750	-51.673	16.26	15.60	0.06	0.64	52.26	6	4
15.850	52.001	-15.850	-52.001	15.67	16.12	0.05	0.53	35.14	6	4
15.960	52.329	-15.950	-52.329	17.92	18.14	0.03	0.41	47.50	7	4
16.060	52.657	-16.050	-52.657	16.94	17.16	0.09	0.50	39.36	6	4
16.160	52.986	-16.150	-52.985	16.99	17.23	0.05	0.47	51.76	6	4
16.260	53.313	-16.250	-53.333	16.10	16.41	0.10	0.58	57.87	6	4
16.360	53.641	-16.350	-53.641	15.30	15.58	0.08	0.42	51.26	6	4
16.460	53.969	-16.450	-53.969	13.61	13.87	0.07	0.47	77.57	6	4
16.560	54.297	-16.550	-54.297	14.34	14.65	0.08	0.51	57.27	6	4
16.650	54.625	-16.650	-54.625	15.07	15.39	0.08	0.47	46.45	6	4
16.750	54.953	-16.750	-54.953	16.06	16.19	0.07	0.43	26.02	6	4
16.850	55.281	-16.850	-55.281	15.55	15.76	0.07	0.45	36.03	6	4
16.950	55.610	-16.950	-55.610	15.90	16.10	0.09	0.56	41.26	6	4
17.010	55.938	-17.050	-55.938	17.03	17.25	0.07	0.40	67.21	6	4
17.150	56.266	-17.050	-56.266	16.52	16.74	0.04	0.24	68.61	7	3
17.250	56.594	-17.250	-56.594	18.69	18.96	0.02	0.12	69.63	7	3
17.350	56.922	-17.350	-56.922	18.85	18.94	0.02	0.13	80.71	7	3
17.450	57.250	-17.450	-57.250	17.34	17.47	0.02	0.11	76.72	7	3
17.550	57.578	-17.550	-57.578	17.41	17.60	0.01	0.11	47.19	7	3
17.650	57.906	-17.650	-57.906	17.28	17.47	0.01	0.05	48.60	7	3
17.750	58.234	-17.750	-58.234	16.81	16.93	0.02	0.12	46.35	7	3
17.850	58.562	-17.850	-58.562	16.60	17.06	0.01	0.12	18.96	7	3
17.950	58.890	-17.950	-58.890	17.08	17.19	0.01	0.11	75.57	7	3
18.050	59.218	-18.050	-59.218	18.53	18.74	0.02	0.11	45.95	7	3
18.150	59.547	-18.150	-59.547	19.59	20.16	0.01	0.11	19.57	7	3
18.250	59.875	-18.250	-59.875	20.65	20.79	0.02	0.10	76.66	7	3
18.350	60.203	-18.350	-60.203	21.50	21.64	0.01	0.05	38.57	7	3
18.450	60.531	-18.450	-60.531	20.93	21.06	0.01	0.10	37.40	7	3
18.550	60.859	-18.550	-60.859	19.20	19.26	0.02	0.10	37.51	7	3
18.650	61.187	-18.650	-61.187	20.25	20.38	0.02	0.10	24.67	7	3
18.750	61.515	-18.750	-61.515	19.36	19.48	0.02	0.08	27.14	7	-9999.0
18.850	61.843	-18.850	-61.843	19.21	19.33	0.03	0.13	33.76	7	3
18.950	62.171	-18.950	-62.171	18.82	18.91	0.02	0.13	41.02	7	3
19.050	62.499	-19.050	-62.499	19.03	19.12	0.02	0.10	54.11	7	3
19.150	62.827	-19.150	-62.827	19.11	19.19	0.02	0.10	53.01	7	3
19.250	63.155	-19.250	-63.155	20.28	20.45	0.02	0.10	34.86	7	3
19.350	63.483	-19.350	-63.483	19.61	19.79	0.02	0.11	29.13	7	3
19.450	63.812	-19.450	-63.812	18.91	19.10	0.02	0.09	40.16	7	-9999.0
19.550	64.140	-19.550	-64.140	18.65	18.88	0.03	0.15	48.47	7	3
19.650	64.468	-19.650	-64.468	17.95	18.19	0.03	0.11	52.29	7	3
19.750	64.796	-19.750	-64.796	16.11	16.31	0.01	0.14	49.49	7	3
19.850	65.124	-19.850	-65.124	16.43	16.70	0.02	0.11	57.15	7	3
19.950	65.452	-19.950	-65.452	19.23	19.46	0.02	0.09	50.46	7	-9999.0
20.050	65.780	-20.050	-65.780	19.20	19.41	0.02	0.10	46.33	7	3
20.150	66.108	-20.150	-66.108	19.57	19.81	0.01	0.06	44.13	7	3
20.250	66.436	-20.250	-66.436	22.42	22.64	0.01	0.09	57.07	7	4
20.350	66.764	-20.350	-66.764	23.49	23.70	0.15	0.61	46.60	7	4
20.450	67.092	-20.450	-67.092	21.84	21.93	0.10	0.46	17.01	7	4
20.550	67.420	-20.550	-67.420	22.17	22.26	0.05	0.25	10.48	7	4
20.649	67.749	-20.650	-67.749	25.17	25.36	0.04	0.24	41.08	7	4
20.749	68.077	-20.750	-68.077	24.31	24.40	0.04	0.17	19.49	7	4
20.849	68.405	-20.850	-68.405	62.36	63.02	0.11	0.43	35.61	8	5
20.950	68.733	-20.950	-68.733	109.63	109.91	0.34	0.31	-3.17	8	6
21.049	69.061	-21.050	-69.061	61.11	61.17	0.44	0.70	6.17	8	5
21.150	69.389	-21.150	-69.389	51.60	51.75	0.59	1.07	12.67	7	5

Pln No 05-0504-1950-W02
CPT File: 121CP07.COR

Col-01 Depth (m)	Col 02 Depth (ft)	Col 03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (MPa)	Col-07 fs (psi)	Col 08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
21.340	69.137	-21.250	-69.717	93.01	89.08	0.85	0.91	14.43	8	5
21.440	70.046	-21.350	-70.046	96.76	96.75	1.33	1.38	-5.77	8	5
21.540	70.721	-21.450	-70.373	126.91	126.53	1.43	1.13	-7.87	8	5
21.550	70.701	-21.550	-70.701	89.50	89.48	1.77	1.98	-4.39	7	5
21.650	71.025	-21.650	-71.029	74.71	74.71	1.49	1.99	0.80	7	4
21.750	71.357	-21.750	-71.357	80.36	80.36	1.19	1.48	-0.76	7	5
21.850	71.685	-21.850	-73.685	73.58	73.57	1.41	1.91	2.09	7	4
21.950	72.014	-21.950	-72.014	87.65	87.67	1.78	1.93	-2.78	7	5
22.050	72.342	-22.050	-72.342	78.85	78.83	1.85	2.31	3.68	7	4
22.150	72.670	-22.150	-72.670	159.04	159.01	2.55	1.61	-5.13	8	5
22.250	72.998	-22.250	-72.998	134.08	134.05	3.40	2.51	-5.06	7	5
22.350	73.326	-22.350	-73.326	96.08	96.05	4.03	4.18	-9.95	11	7
22.450	73.654	-22.450	-73.654	79.91	79.89	3.70	4.64	-9.67	11	7
22.550	73.982	-22.550	-73.982	87.35	87.34	3.52	4.02	-2.80	9	6
22.650	74.310	-22.650	-74.326	128.19	128.73	2.61	2.02	-1.20	7	5
22.750	74.638	-22.750	-74.638	93.37	93.35	2.66	2.85	-1.64	6	4
22.850	74.966	-22.850	-74.966	169.35	169.35	2.22	1.31	-0.04	8	5
22.950	75.294	-22.950	-75.294	228.05	228.05	3.35	1.47	0.53	8	5
23.050	75.622	-23.050	-75.622	195.96	195.95	3.80	1.94	-0.28	8	5
23.150	75.951	-23.150	-75.951	184.20	184.21	2.30	1.77	5.48	8	5
23.250	76.279	-23.250	-76.279	117.16	117.16	2.91	2.46	-0.44	7	5
23.350	76.607	-23.350	-76.607	76.64	76.45	4.65	6.09	0.55	11	7
23.450	76.935	-23.450	-76.935	97.74	97.75	4.34	4.44	2.28	11	6
23.550	77.263	-23.550	-77.263	99.24	99.26	2.65	2.67	4.99	7	4
23.650	77.591	-23.650	-77.591	57.24	57.26	1.77	3.09	3.50	5	4
23.750	77.919	-23.750	-77.919	65.84	65.86	1.66	4.25	5.40	5	3
23.850	78.247	-23.850	-78.247	55.86	55.89	2.22	5.05	6.09	5	3
23.950	78.575	-23.950	-78.575	57.01	57.04	2.17	4.85	5.96	5	3
24.050	78.903	-24.050	-78.903	51.65	51.69	3.01	5.21	7.39	5	3
24.150	79.231	-24.150	-79.231	46.12	46.14	2.51	5.45	9.14	5	3
24.250	79.559	-24.250	-79.559	48.10	48.11	2.55	5.37	1.61	5	3
24.350	79.887	-24.350	-79.857	51.55	51.56	3.16	6.74	2.01	5	3
24.450	80.216	-24.450	-80.216	53.11	53.12	3.55	7.44	1.53	5	3
24.550	80.544	-24.550	-80.544	55.77	55.78	4.26	7.61	1.25	5	3
24.650	80.872	-24.650	-80.872	56.06	56.07	4.35	7.75	1.55	5	3
24.750	81.200	-24.750	-81.200	88.75	88.72	5.26	5.91	3.40	11	5
24.850	81.528	-24.850	-81.526	110.07	110.07	6.41	5.82	2.66	11	5
24.950	81.856	-24.950	-81.856	81.03	84.04	6.26	7.31	2.29	11	5
25.050	82.184	-25.050	-82.184	77.90	77.91	6.04	7.75	1.63	11	5
25.150	82.512	-25.150	-82.512	71.08	71.09	5.38	7.22	1.41	11	5
25.250	82.840	-25.250	-82.840	75.61	75.62	5.26	6.86	1.27	11	5
25.350	83.168	-25.350	-83.166	69.03	69.02	4.26	7.53	-0.56	11	5
25.450	83.496	-25.450	-83.476	65.03	65.00	4.35	7.61	-0.26	11	5
25.550	83.824	-25.550	-83.824	43.60	43.60	3.35	7.46	-1.04	8	3
25.650	84.153	-25.650	-84.153	11.64	56.64	2.24	5.14	-0.64	5	3
25.750	84.481	-25.750	-84.483	43.53	43.51	2.55	5.85	0.21	5	3
25.850	84.809	-25.850	-84.809	48.61	48.60	3.38	6.51	0.80	5	3
25.950	85.137	-25.950	-85.137	46.38	46.36	3.31	7.14	-0.32	5	3
26.050	85.465	-26.050	-85.465	40.68	40.68	2.61	6.50	-0.56	5	3
26.150	85.793	-26.150	-85.793	39.36	39.35	2.28	5.75	-0.65	5	3
26.250	86.121	-26.250	-86.121	43.83	43.83	2.55	5.82	2.16	5	3
26.350	86.449	-26.350	-86.449	44.45	43.63	2.90	6.78	-0.21	5	3
26.450	86.777	-26.450	-86.777	45.46	45.64	2.96	6.48	-0.37	5	3
26.550	87.105	-26.550	-87.105	49.52	49.52	3.36	6.74	-0.30	5	3
26.650	87.433	-26.650	-87.435	48.74	48.74	3.36	6.89	-0.15	5	3
26.750	87.761	-26.750	-87.761	43.36	43.33	2.92	7.05	0.64	5	3
26.850	88.089	-26.850	-88.089	35.25	35.20	2.52	7.15	-0.37	5	3
26.950	88.418	-26.950	-88.418	32.12	32.12	2.09	6.51	-0.29	5	3
27.050	88.746	-27.050	-88.746	33.32	33.32	2.10	6.48	0.09	5	3
27.150	89.074	-27.150	-89.074	34.43	34.43	1.95	5.65	-0.21	5	3

Run No: 05-0918-1256 S503
CPT File: 7210753.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (kPa)	Col-10 SBT Zone)	Col-11 Soil (Robe
27.250	89.407	-27.250	-89.402	35.16	35.40	2.29	6.47	10.44	5	3
27.350	89.731	-27.350	-89.730	32.04	32.25	2.15	6.69	26.42	5	3
27.450	90.059	-27.450	-90.058	32.21	32.45	1.88	5.81	47.46	5	3
27.550	90.366	-27.550	-90.356	31.35	31.57	1.87	5.92	51.18	5	3
27.650	90.714	-27.650	-90.714	30.09	30.34	1.72	5.66	53.65	5	3
27.750	91.042	-27.750	-91.042	30.12	30.41	1.59	5.12	52.96	5	3
27.850	91.370	-27.850	-91.370	29.72	29.91	1.67	5.57	51.46	5	3
27.950	91.698	-27.950	-91.698	34.21	34.62	1.74	5.07	28.27	5	3
28.050	92.026	-28.050	-92.026	33.75	34.18	1.60	4.68	34.16	4	3
28.150	92.355	-28.150	-92.355	29.99	30.45	1.62	5.33	58.50	5	3
28.250	92.683	-28.250	-92.683	27.95	28.51	1.36	4.71	121.55	5	3
28.350	93.011	-28.350	-93.011	26.61	27.27	1.15	4.23	135.01	4	3
28.450	93.339	-28.450	-93.339	26.87	27.53	1.10	4.00	132.29	4	3
28.550	93.667	-28.550	-93.667	31.09	32.94	1.46	4.30	121.11	4	3
28.650	93.995	-28.650	-93.995	33.15	34.69	1.60	4.64	104.63	4	3
28.750	94.323	-28.750	-94.323	30.41	31.61	1.58	5.09	133.85	4	3
28.850	94.651	-28.850	-94.651	26.46	27.60	1.43	5.50	128.46	4	3
28.950	94.979	-28.950	-94.979	27.53	27.63	1.33	4.81	116.62	4	3
29.050	95.307	-29.050	-95.307	28.14	29.17	1.29	4.43	98.76	4	3
29.150	95.635	-29.150	-95.635	25.46	25.87	1.17	4.61	69.55	4	3
29.250	95.963	-29.250	-95.963	22.58	23.10	0.97	4.21	110.33	4	3
29.350	96.291	-29.350	-96.291	21.66	22.03	0.81	3.67	120.21	4	3
29.450	96.620	-29.450	-96.621	20.38	20.89	0.72	3.61	128.48	5	3
29.550	96.948	-29.550	-96.948	20.62	21.56	0.70	3.26	146.21	5	3
29.650	97.276	-29.650	-97.276	22.24	22.92	0.74	3.24	143.66	5	3
29.750	97.604	-29.750	-97.604	22.19	23.08	0.87	3.84	148.21	5	3
29.850	97.932	-29.850	-97.932	24.46	25.16	0.94	3.73	147.85	5	3
29.950	98.260	-29.950	-98.260	23.51	24.10	0.91	4.26	136.73	4	3
30.050	98.588	-30.050	-98.588	26.51	27.15	1.19	4.48	116.67	4	3
30.150	98.916	-30.150	-98.916	28.55	28.98	1.48	5.10	91.24	4	3
30.250	99.244	-30.250	-99.244	27.98	28.55	1.40	4.80	120.44	4	3
30.350	99.572	-30.350	-99.572	29.25	29.64	1.36	4.60	89.44	4	3
30.450	99.900	-30.450	-99.900	31.51	32.19	1.57	4.86	121.85	4	3
30.550	100.228	-30.550	-100.228	34.59	35.15	1.74	4.98	129.57	4	3
30.650	100.557	-30.650	-100.557	33.58	34.17	1.72	5.06	82.75	4	3
30.750	100.885	-30.750	-100.885	31.72	32.25	1.64	5.20	111.53	4	3
30.850	101.213	-30.850	-101.213	30.12	30.59	1.45	4.73	100.29	4	3
30.950	101.541	-30.950	-101.541	31.59	32.31	1.42	4.50	112.61	4	3
31.050	101.869	-31.050	-101.869	32.38	33.07	1.24	3.79	196.26	5	3
31.150	102.197	-31.151	-102.197	33.59	34.11	1.36	4.03	216.81	5	3
31.250	102.525	-31.250	-102.525	38.20	39.28	1.54	4.03	225.56	5	3
31.350	102.853	-31.350	-102.853	44.65	45.36	2.06	4.55	159.56	4	3
31.450	103.181	-31.450	-103.181	41.94	42.68	2.16	5.07	214.42	4	3
31.550	103.509	-31.550	-103.509	36.79	37.38	1.80	4.81	224.28	4	3
31.650	103.837	-31.650	-103.837	37.60	38.43	1.62	4.22	178.22	4	3
31.750	104.165	-31.750	-104.165	39.58	40.44	1.93	4.80	189.39	5	3
31.850	104.493	-31.850	-104.493	43.03	43.44	2.69	6.01	155.70	4	3
31.950	104.822	-31.950	-104.822	46.41	46.93	2.80	4.98	153.14	4	3
32.050	105.150	-32.050	-105.150	94.25	94.75	3.26	3.44	105.63	6	4
32.150	105.478	-32.150	-105.478	193.71	193.85	3.50	2.49	32.95	7	4
32.250	105.806	-32.250	-105.806	359.69	359.85	3.79	2.37	35.19	7	4
32.350	106.134	-32.350	-106.134	209.59	209.69	3.93	1.96	37.19	8	5
32.450	106.462	-32.450	-106.462	266.08	266.30	3.56	1.39	47.45	9	5
32.550	106.790	-32.550	-106.790	202.16	202.28	3.41	1.76	31.57	8	5
32.650	107.118	-32.650	-107.118	244.92	245.13	4.45	3.03	44.16	6	4

Geotec Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev. A - Build 5 Format: NCP Impersal
Run No: 05-0308-1255-3509
Job No: 05 725
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Hole: CPT-01-05S
Location: Pigeon Point
Cone 20 TON ADDED
CPT Date 05/03/05
CPT Time 13:24
CPT File 725\CP05 COR
Depth Inc: 0.050000
Reading (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 6.00 (ft): 19.7
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Su Nkt used: 15.00 Su/P' Incr: 0.30
Su Method: Samtleben All Sands
State Parameter Ic: 1.00
Used Unit Weights assigned to Soil Zones
Dr60c Calculated using qc1n
Dr60cs Calculated using qc1ncs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-Qp (Zone)	Col-13 SBT-Nkm (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (psf)	Col-18 E Stress (psi)	Col-19 OCR	Col-20 DR60 (%/ft)
0.050	0.164	3	-9999.0	1.2E-07	111.4	0.005	0.000	0.003	2.00	1.2
0.100	0.492	5	6	1.2E-07	111.4	0.007	0.000	0.007	2.00	2.2
0.250	0.820	7	7	4.8E-06	117.7	0.044	0.000	0.046	2.00	8.5
0.350	1.148	7	7	4.8E-06	117.7	0.064	0.000	0.066	2.00	11.5
0.450	1.476	6	7	1.0E-01	120.9	0.085	0.000	0.087	2.00	13.7
0.550	1.804	7	7	1.0E-04	117.7	0.105	0.000	0.105	2.00	9.4
0.650	2.133	6	6	5.0E-01	116.6	0.124	0.000	0.114	2.00	4.7
0.750	2.461	5	6	1.0E-01	111.4	0.142	0.000	0.142	2.00	4.3
0.850	2.789	6	6	5.0E-05	114.6	0.163	0.000	0.161	2.00	5.5
0.950	3.117	5	6	1.0E-05	114.6	0.183	0.000	0.180	2.00	5.6
1.050	3.445	6	6	5.0E-05	114.6	0.204	0.000	0.196	2.00	7.2
1.150	3.773	5	6	5.0E-07	114.6	0.217	0.000	0.217	2.00	6.0
1.250	4.101	5	5	5.0E-07	114.6	0.235	0.000	0.230	2.00	6.1
1.350	4.429	5	5	5.0E-06	114.6	0.255	0.000	0.255	1.98	7.5
1.450	4.757	7	5	5.0E-06	114.6	0.274	0.000	0.274	1.91	10.5
1.550	5.085	6	6	5.0E-05	114.6	0.293	0.000	0.292	1.85	8.9
1.650	5.413	6	6	5.0E-05	114.6	0.311	0.000	0.307	1.79	8.8
1.750	5.741	7	6	5.0E-04	117.7	0.330	0.000	0.320	1.74	12.0
1.850	6.069	7	6	5.0E-04	114.6	0.348	0.000	0.349	1.69	10.9
1.950	6.398	8	6	5.0E-04	117.7	0.368	0.000	0.366	1.65	15.8
2.050	6.726	8	7	5.0E-05	120.9	0.388	0.000	0.385	1.61	21.1
2.150	7.054	5	6	5.0E-04	117.7	0.401	0.000	0.407	1.57	15.2
2.250	7.382	5	5	5.0E-08	111.4	0.425	0.000	0.426	1.53	11.9
2.350	7.710	6	6	5.0E-07	114.6	0.445	0.000	0.445	1.50	13.4
2.450	8.038	7	6	5.0E-06	114.6	0.464	0.000	0.464	1.47	14.1
2.550	8.366	7	6	5.0E-06	114.6	0.482	0.000	0.482	1.44	16.5
2.650	8.694	7	6	5.0E-05	114.6	0.501	0.000	0.501	1.41	11.5
2.750	9.022	5	5	5.0E-06	114.6	0.520	0.000	0.520	1.38	6.1
2.850	9.350	5	5	5.0E-06	114.6	0.539	0.000	0.539	1.36	7.4
2.950	9.678	6	5	5.0E-06	114.6	0.558	0.000	0.558	1.34	9.6
3.050	10.006	6	6	5.0E-07	114.6	0.577	0.000	0.576	1.32	7.6
3.150	10.335	7	6	5.0E-04	117.7	0.595	0.000	0.595	1.30	10.6

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CPT File: 7215753.COR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT EQ (Zone)	Col-13 SBT BQp (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col 16 V Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cr	Col-20 OCR (u/Es)
1.950	10.843	7	6	5.0E-06	114.6	0.615	0.000	0.615	1.28	17.1
2.050	10.991	8	6	5.0E-06	117.1	0.634	0.000	0.634	1.26	16.9
2.150	11.349	7	6	5.0E-06	114.6	0.653	0.000	0.653	1.24	12.7
2.250	11.647	6	5	5.0E-06	114.6	0.671	0.000	0.671	1.22	5.5
2.350	11.994	7	6	5.0E-06	117.1	0.690	0.000	0.690	1.20	10.2
2.450	12.393	6	6	5.0E-06	114.6	0.710	0.000	0.710	1.19	17.8
2.550	12.631	8	6	5.0E-06	117.1	0.729	0.000	0.729	1.17	16.3
2.650	12.955	7	6	5.0E-06	114.6	0.748	0.000	0.748	1.16	9.8
2.750	13.267	6	6	5.0E-06	114.6	0.766	0.000	0.766	1.14	6.6
2.850	13.515	6	6	5.0E-06	114.6	0.785	0.000	0.785	1.13	4.8
2.950	13.963	6	6	5.0E-06	114.6	0.804	0.000	0.804	1.12	6.1
3.050	14.271	7	6	5.0E-06	114.6	0.823	0.000	0.823	1.10	12.0
3.150	14.603	7	6	5.0E-06	114.6	0.842	0.000	0.842	1.09	12.1
3.250	14.928	8	6	5.0E-06	114.6	0.860	0.000	0.860	1.08	17.7
3.350	15.269	8	6	5.0E-06	117.1	0.879	0.000	0.879	1.07	21.8
3.450	15.584	8	6	5.0E-06	117.1	0.899	0.000	0.899	1.05	22.0
3.550	15.912	7	6	5.0E-06	114.6	0.918	0.000	0.918	1.04	15.4
3.650	16.240	8	6	5.0E-06	114.6	0.937	0.000	0.937	1.03	16.1
3.750	16.568	8	6	5.0E-06	114.6	0.955	0.000	0.955	1.02	16.1
3.850	16.896	8	6	5.0E-06	114.6	0.974	0.000	0.974	1.01	15.9
3.950	17.224	8	6	5.0E-06	114.6	0.993	0.000	0.993	1.00	15.7
4.050	17.553	7	6	5.0E-06	114.6	1.012	0.000	1.012	0.99	11.4
4.150	17.880	7	5	5.0E-06	114.6	1.031	0.000	1.031	0.99	10.1
4.250	18.208	6	6	5.0E-07	114.6	1.049	0.000	1.049	0.98	7.7
4.350	18.537	6	5	5.0E-06	114.6	1.068	0.000	1.068	0.97	9.7
4.450	18.865	5	5	5.0E-06	114.6	1.087	0.000	1.087	0.96	9.9
4.550	19.193	4	4	5.0E-07	120.9	1.106	0.000	1.106	0.95	18.1
4.650	19.533	7	5	5.0E-06	114.6	1.126	0.000	1.126	0.94	20.8
4.750	19.869	4	4	5.0E-06	114.6	1.144	0.005	1.139	0.94	4.9
4.850	20.197	4	5	5.0E-06	114.6	1.163	0.010	1.153	0.93	4.8
4.950	20.526	8	6	5.0E-06	117.1	1.182	0.015	1.167	0.93	23.5
5.050	20.833	7	5	5.0E-06	114.6	1.201	0.020	1.181	0.93	21.1
5.150	21.161	6	5	5.0E-06	114.6	1.220	0.025	1.194	0.92	9.5
5.250	21.489	8	6	5.0E-06	117.1	1.239	0.030	1.209	0.92	20.9
5.350	21.817	7	5	5.0E-06	114.6	1.258	0.035	1.223	0.92	19.4
5.450	22.145	7	5	5.0E-06	114.6	1.277	0.040	1.236	0.91	18.9
5.550	22.473	6	6	5.0E-06	114.6	1.296	0.045	1.250	0.91	21.9
5.650	22.802	6	5	5.0E-06	114.6	1.315	0.050	1.265	0.91	19.4
5.750	23.130	7	5	5.0E-06	114.6	1.333	0.055	1.278	0.90	13.5
5.850	23.458	7	5	5.0E-06	114.6	1.352	0.060	1.292	0.90	10.5
5.950	23.786	7	5	5.0E-06	117.1	1.371	0.064	1.307	0.90	11.9
6.050	24.114	8	6	5.0E-06	117.1	1.391	0.069	1.322	0.89	20.2
6.150	24.442	7	5	5.0E-06	114.6	1.410	0.074	1.336	0.89	16.1
6.250	24.770	7	5	5.0E-06	114.6	1.428	0.079	1.350	0.89	16.6
6.350	25.098	7	5	5.0E-06	114.6	1.447	0.084	1.363	0.88	13.7
6.450	25.426	7	5	5.0E-06	114.6	1.466	0.089	1.377	0.88	13.6
6.550	25.754	8	5	5.0E-06	114.6	1.485	0.094	1.391	0.88	13.5
6.650	26.083	8	5	5.0E-06	114.6	1.504	0.099	1.405	0.87	14.6
6.750	26.410	7	5	5.0E-06	114.6	1.522	0.104	1.418	0.87	15.7
6.850	26.739	7	5	5.0E-06	114.6	1.541	0.109	1.432	0.87	12.7
6.950	27.067	7	5	5.0E-06	114.6	1.560	0.114	1.446	0.87	13.4
7.050	27.396	7	5	5.0E-06	114.6	1.579	0.119	1.460	0.86	12.9
7.150	27.723	6	5	5.0E-06	114.6	1.598	0.124	1.474	0.86	9.3
7.250	28.051	6	5	5.0E-06	114.6	1.616	0.129	1.487	0.86	12.5
7.350	28.379	7	5	5.0E-07	114.6	1.635	0.133	1.502	0.86	15.1
7.450	28.707	4	3	5.0E-05	114.6	1.654	0.138	1.516	0.85	5.1
7.550	29.036	5	4	5.0E-07	114.6	1.673	0.143	1.530	0.85	5.4
7.650	29.364	7	3	5.0E-05	114.6	1.692	0.148	1.544	0.85	9.4
7.750	29.692	8	7	5.0E-05	114.6	1.710	0.153	1.558	0.84	14.8
7.850	30.020	8	6	5.0E-05	114.6	1.729	0.158	1.571	0.84	21.3

Run No. CE-0108-1255-5505
CPT File: 0108P03.COA

Col-01 Depth (ft)	Col-02 Depth (dc)	Col-12 SBT-NO (Zone)	Col-13 SBT-Ngs (Zone)	Col-14 Perm-k (cm/s)	Col 15 Unit Wt (pcf)	Col 16 V Stress (ksf)	Col-17 V Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Gm	Col-20 Nkt (adim)
9.250	30.347	6	5	5.0E-05	124.6	1.148	0.133	1.415	5.84	35.6
9.350	30.675	7	5	5.0E-06	124.6	1.167	0.143	1.424	5.84	34.3
9.450	31.004	8	5	5.0E-06	124.6	1.186	0.151	1.432	5.84	33.1
9.550	31.332	5	5	5.0E-06	124.6	1.204	0.159	1.441	5.83	31.7
9.650	31.660	6	5	5.0E-06	124.6	1.223	0.174	1.449	5.83	30.6
9.750	31.988	6	6	5.0E-06	127.7	1.242	0.184	1.458	5.83	29.2
9.850	32.316	6	5	5.0E-06	124.6	1.261	0.196	1.467	5.83	28.3
9.950	32.644	6	5	5.0E-06	124.6	1.280	0.206	1.476	5.82	27.5
10.050	32.972	6	5	5.0E-06	124.6	1.299	0.216	1.484	5.82	26.6
10.150	33.300	6	5	5.0E-06	124.6	1.318	0.226	1.493	5.82	25.8
10.250	33.628	7	5	5.0E-06	124.6	1.336	0.235	1.502	5.82	24.9
10.350	33.956	7	5	5.0E-07	124.6	1.355	0.661	1.510	5.81	24.6
10.450	34.284	7	5	5.0E-06	124.6	1.374	0.651	1.519	5.81	23.8
10.550	34.612	6	5	5.0E-06	124.6	1.393	0.661	1.527	5.81	23.1
10.650	34.941	6	5	5.0E-06	124.6	1.412	0.671	1.536	5.81	22.3
10.750	35.269	5	4	5.0E-07	124.6	1.430	0.681	1.544	5.80	21.2
10.850	35.597	7	5	5.0E-07	124.6	1.449	0.691	1.553	5.80	20.6
10.950	35.925	7	5	5.0E-07	124.6	1.468	0.697	1.561	5.80	19.2
11.050	36.253	7	5	5.0E-06	124.6	1.487	0.707	1.570	5.80	18.4
11.150	36.581	6	5	5.0E-06	124.6	1.506	0.717	1.578	5.80	17.5
11.250	36.909	7	5	5.0E-06	124.6	1.524	0.727	1.587	5.79	16.7
11.350	37.237	7	5	5.0E-06	124.6	1.543	0.737	1.595	5.79	15.9
11.450	37.565	7	5	5.0E-06	124.6	1.562	0.538	1.604	5.79	15.6
11.550	37.893	8	5	5.0E-06	124.6	1.581	0.548	1.612	5.79	16.3
11.650	38.222	7	5	5.0E-07	124.6	1.600	0.559	1.621	5.79	16.6
11.750	38.550	7	5	5.0E-06	124.6	1.618	0.569	1.630	5.78	15.7
11.850	38.878	7	5	5.0E-06	124.6	1.637	0.579	1.638	5.78	15.2
11.950	39.206	7	5	5.0E-06	124.6	1.656	0.589	1.647	5.78	16.2
12.050	39.534	3	6	5.0E-05	120.5	1.675	0.600	1.656	5.78	19.8
12.150	39.863	8	6	5.0E-05	124.6	1.695	0.610	1.665	5.78	21.3
12.250	40.191	7	5	5.0E-06	124.6	1.713	0.620	1.673	5.77	24.3
12.350	40.519	3	5	5.0E-04	117.7	1.732	0.630	1.682	5.77	20.2
12.450	40.847	3	5	5.0E-04	117.7	1.752	0.641	1.691	5.77	21.5
12.550	41.176	8	5	5.0E-04	117.7	1.771	0.651	1.700	5.77	19.4
12.650	41.504	8	5	5.0E-06	117.7	1.790	0.661	1.709	5.76	19.7
12.750	41.832	7	5	5.0E-04	117.7	2.410	0.691	1.718	5.76	18.7
12.850	42.160	8	5	5.0E-04	117.7	2.429	0.702	1.728	5.76	13.0
12.950	42.488	8	5	5.0E-04	117.7	2.448	0.712	1.737	5.76	13.5
13.050	42.816	8	5	5.0E-04	117.7	2.468	0.722	1.746	5.76	15.6
13.150	43.145	8	5	5.0E-03	120.9	2.487	0.732	1.755	5.75	11.4
13.250	43.473	7	5	5.0E-05	124.6	2.507	0.742	1.764	5.75	9.6
13.350	43.799	5	4	5.0E-05	124.6	2.525	0.753	1.773	5.75	8.4
13.450	44.129	6	4	5.0E-05	124.6	2.544	0.763	1.781	5.75	6.0
13.550	44.466	6	4	5.0E-05	124.6	2.563	0.773	1.790	5.75	6.6
13.650	44.794	5	4	5.0E-05	124.6	2.582	0.783	1.799	5.75	5.1
13.750	45.121	5	3	5.0E-05	124.6	2.601	0.794	1.807	5.74	5.0
13.850	45.449	5	3	5.0E-05	124.6	2.619	0.804	1.816	5.74	5.0
13.950	45.797	5	3	5.0E-05	124.6	2.638	0.814	1.825	5.74	5.2
14.050	46.095	5	3	5.0E-05	124.6	2.657	0.824	1.833	5.74	5.2
14.150	46.423	5	3	5.0E-05	124.6	2.676	0.835	1.842	5.74	5.2
14.250	46.751	5	3	5.0E-05	124.6	2.695	0.845	1.851	5.74	5.1
14.350	47.079	5	3	5.0E-05	124.6	2.713	0.855	1.859	5.73	5.2
14.450	47.408	5	3	5.0E-05	124.6	2.732	0.865	1.868	5.73	5.6
14.550	47.736	5	3	5.0E-05	124.6	2.751	0.876	1.877	5.73	5.2
14.650	48.064	5	3	5.0E-05	124.6	2.770	0.886	1.886	5.73	5.7
14.750	48.392	6	4	5.0E-05	124.6	2.789	0.896	1.894	5.73	5.8
14.850	48.720	5	3	5.0E-05	124.6	2.807	0.906	1.903	5.73	5.5
14.950	49.048	5	3	5.0E-05	124.6	2.826	0.917	1.912	5.72	5.6
15.050	49.376	5	3	5.0E-05	124.6	2.845	0.927	1.921	5.72	5.6
15.150	49.704	5	3	5.0E-05	124.6	2.864	0.937	1.929	5.72	5.6

Hole No: 05-0109 1250-5510
Dir File: 7215705.DBR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-MD (Zone)	Col-13 SBT-MDn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 Σ Stress (tsf)	Col-18 Σ Stress (ksf)	Col-19 OCR	Col-20 SBC (tsf/ft)
15.250	50.032	5	3	5.0E-05	114.6	2.882	0.947	1.835	0.72	5.3
15.350	50.360	5	3	5.0E-05	114.6	2.902	0.958	1.844	0.72	5.5
15.450	50.688	5	3	5.0E-05	114.6	2.922	0.969	1.852	0.72	5.5
15.550	51.016	5	3	5.0E-05	114.6	2.919	0.979	1.861	0.71	5.3
15.650	51.345	5	3	5.0E-05	114.6	2.956	0.988	1.869	0.71	5.4
15.750	51.673	6	4	5.0E-05	114.6	2.976	0.999	1.878	0.71	5.4
15.850	52.001	6	4	5.0E-05	114.6	2.955	1.009	1.886	0.71	5.2
15.950	52.329	6	4	5.0E-05	117.7	3.014	1.019	1.895	0.71	5.6
16.050	52.657	6	4	5.0E-05	114.6	3.033	1.029	1.904	0.71	5.6
16.150	52.985	6	4	5.0E-05	114.6	3.052	1.040	1.913	0.71	5.6
16.250	53.313	6	4	5.0E-05	114.6	3.071	1.050	1.921	0.71	5.3
16.350	53.641	5	3	5.0E-05	114.6	3.090	1.060	1.930	0.71	5.0
16.450	53.969	5	3	5.0E-05	114.6	3.109	1.070	1.939	0.71	5.4
16.550	54.297	5	3	5.0E-05	114.6	3.127	1.080	1.947	0.70	5.6
16.650	54.625	6	4	5.0E-05	114.6	3.146	1.091	1.956	0.70	6.5
16.750	54.953	6	4	5.0E-05	114.6	3.165	1.101	1.964	0.70	6.2
16.850	55.281	6	4	5.0E-05	114.6	3.184	1.111	1.972	0.69	6.3
16.950	55.610	6	4	5.0E-05	114.6	3.203	1.122	1.981	0.69	6.2
17.050	55.938	6	4	5.0E-05	114.6	3.223	1.132	1.990	0.69	6.6
17.150	56.266	6	4	5.0E-05	117.7	3.260	1.142	1.998	0.67	5.4
17.250	56.594	6	4	5.0E-05	117.7	3.258	1.152	2.007	0.67	6.1
17.350	56.922	6	4	5.0E-05	117.7	3.277	1.162	2.015	0.67	6.0
17.450	57.250	6	4	5.0E-05	117.7	3.296	1.172	2.024	0.66	5.6
17.550	57.578	6	4	5.0E-05	117.7	3.316	1.182	2.032	0.66	5.6
17.650	57.906	6	4	5.0E-05	117.7	3.337	1.192	2.041	0.66	5.6
17.750	58.234	6	4	5.0E-05	117.7	3.356	1.202	2.050	0.64	5.4
17.850	58.562	6	4	5.0E-05	117.7	3.376	1.212	2.058	0.64	5.4
17.950	58.890	6	4	5.0E-05	117.7	3.395	1.222	2.067	0.63	5.6
18.050	59.218	6	4	5.0E-05	117.7	3.416	1.232	2.075	0.63	4.6
18.150	59.547	7	4	5.0E-05	117.7	3.436	1.242	2.084	0.62	5.4
18.250	59.875	7	4	5.0E-05	117.7	3.457	1.253	2.092	0.62	5.7
18.350	60.203	7	4	5.0E-05	117.7	3.477	1.263	2.101	0.62	6.3
18.450	60.531	7	4	5.0E-05	117.7	3.497	1.273	2.110	0.62	6.7
18.550	60.859	6	3	5.0E-05	117.7	3.518	1.283	2.118	0.62	6.1
18.650	61.187	6	4	5.0E-05	117.7	3.538	1.294	2.127	0.62	6.5
18.750	61.515	6	4	5.0E-05	117.7	3.559	1.304	2.135	0.62	6.2
18.850	61.843	7	4	5.0E-05	117.7	3.579	1.314	2.143	0.61	6.3
18.950	62.171	7	4	5.0E-05	117.7	3.599	1.325	2.152	0.61	6.1
19.050	62.499	6	4	5.0E-05	117.7	3.607	1.337	2.161	0.60	5.2
19.150	62.827	6	4	5.0E-05	117.7	3.627	1.347	2.169	0.60	6.2
19.250	63.156	7	4	5.0E-05	117.7	3.648	1.357	2.178	0.60	6.5
19.350	63.484	7	4	5.0E-05	117.7	3.668	1.367	2.186	0.60	6.3
19.450	63.812	6	4	5.0E-05	117.7	3.689	1.378	2.195	0.60	6.1
19.550	64.140	6	4	5.0E-05	117.7	3.709	1.388	2.203	0.60	6.0
19.650	64.468	6	4	5.0E-05	117.7	3.729	1.399	2.212	0.60	5.9
19.750	64.796	6	4	5.0E-05	117.7	3.749	1.409	2.220	0.60	5.9
19.850	65.124	7	4	5.0E-05	117.7	3.769	1.419	2.229	0.60	6.0
19.950	65.452	6	4	5.0E-05	117.7	3.789	1.429	2.237	0.60	6.2
20.050	65.780	7	4	5.0E-05	117.7	3.809	1.439	2.246	0.60	6.2
20.150	66.108	7	4	5.0E-05	117.7	3.830	1.449	2.254	0.60	6.2
20.250	66.436	7	4	5.0E-05	117.7	3.837	1.460	2.263	0.60	7.2
20.350	66.764	7	4	5.0E-05	117.7	3.859	1.470	2.272	0.60	7.6
20.450	67.092	7	4	5.0E-05	117.7	3.878	1.480	2.280	0.60	7.0
20.550	67.420	7	4	5.0E-05	117.7	3.897	1.490	2.289	0.60	7.1
20.650	67.748	7	4	5.0E-05	117.7	3.917	1.500	2.297	0.60	8.1
20.750	68.077	7	4	5.0E-05	117.7	3.936	1.511	2.306	0.60	7.2
20.850	68.405	5	5	1.0E-04	120.9	3.955	1.521	2.314	0.64	19.1
20.950	68.733	4	5	5.0E-05	124.1	3.976	1.531	2.323	0.64	21.0
21.050	69.061	4	5	5.0E-05	120.9	3.956	1.541	2.331	0.64	15.1
21.150	69.389	4	5	5.0E-05	117.7	4.015	1.552	2.340	0.64	17.2

Run No. 0x-0106-1154-5c3C
PDT File 0217F05.CCM

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SAT-AC (Tone)	Col-13 SAT-AC (Tone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col 16 T Stress (ksf)	Col-17 H Stress (ksf)	Col-18 S Stress (ksf)	Col-19 Cn	Col-20 PAS (b/ft)
21.250	69.717	9	6	5.0E-03	120.9	4.035	1.562	2.471	0.56	22.1
21.350	70.045	9	6	5.0E-03	120.9	4.055	1.570	2.482	0.56	23.2
21.450	70.373	9	6	5.0E-03	120.9	4.074	1.577	2.497	0.56	30.4
21.550	70.703	9	6	5.0E-03	117.7	4.054	1.569	2.484	0.63	28.6
21.650	71.029	8	5	5.0E-04	117.7	4.113	1.603	2.517	0.63	25.9
21.750	71.357	8	5	5.0E-04	117.7	4.133	1.615	2.519	0.63	25.7
21.850	71.685	8	5	5.0E-04	117.7	4.152	1.623	2.529	0.63	25.8
21.950	72.014	7	5	5.0E-04	117.7	4.171	1.634	2.536	0.63	28.0
22.050	72.342	8	5	5.0E-04	117.7	4.191	1.646	2.547	0.63	25.2
22.150	72.670	9	6	5.0E-03	120.9	4.210	1.654	2.556	0.62	26.1
22.250	72.998	8	6	5.0E-04	117.7	4.210	1.654	2.556	0.62	49.7
22.350	73.326	8	5	1.0E-15	130.5	4.250	1.670	2.579	0.62	89.9
22.450	73.654	8	5	1.0E-15	130.5	4.272	1.679	2.593	0.62	76.5
22.550	73.982	8	5	5.0E-06	114.6	4.292	1.686	2.607	0.62	41.8
22.650	74.310	8	5	5.0E-04	117.7	4.311	1.705	2.606	0.62	43.1
22.750	74.638	8	5	5.0E-05	114.6	4.330	1.716	2.614	0.62	35.8
22.850	74.966	8	5	5.0E-03	120.9	4.349	1.726	2.623	0.62	40.5
22.950	75.294	8	5	5.0E-03	120.9	4.369	1.736	2.633	0.62	54.6
23.050	75.622	9	6	5.0E-03	120.9	4.389	1.746	2.642	0.62	46.9
23.150	75.951	9	6	5.0E-03	120.9	4.409	1.757	2.652	0.61	44.1
23.250	76.279	9	6	5.0E-04	117.7	4.428	1.761	2.667	0.61	31.4
23.350	76.607	8	5	1.0E-15	130.5	4.469	1.777	2.692	0.61	72.3
23.450	76.935	9	6	1.0E-15	130.5	4.490	1.787	2.703	0.61	93.6
23.550	77.263	9	6	5.0E-04	117.7	4.490	1.792	2.698	0.61	31.7
23.650	77.591	8	5	5.0E-05	114.6	4.509	1.808	2.702	0.61	21.9
23.750	77.919	8	4	5.0E-05	114.6	4.528	1.818	2.710	0.61	22.3
23.850	78.247	8	5	5.0E-07	114.6	4.547	1.828	2.719	0.61	35.7
23.950	78.575	8	5	5.0E-07	114.6	4.566	1.839	2.727	0.61	26.4
24.050	78.903	8	5	5.0E-08	111.4	4.584	1.849	2.735	0.60	65.2
24.150	79.231	8	4	5.0E-08	111.4	4.603	1.859	2.744	0.60	44.2
24.250	79.559	8	5	5.0E-08	111.4	4.621	1.869	2.752	0.60	46.1
24.350	79.887	8	5	5.0E-08	111.4	4.639	1.880	2.760	0.60	48.4
24.450	80.214	8	5	5.0E-08	111.4	4.657	1.890	2.768	0.60	59.5
24.550	80.542	8	5	5.0E-08	111.4	4.676	1.900	2.776	0.60	93.6
24.650	80.870	8	5	5.0E-08	111.4	4.694	1.910	2.784	0.60	91.7
24.750	81.200	9	5	1.0E-15	130.5	4.716	1.921	2.795	0.60	85.3
24.850	81.527	9	6	1.0E-15	130.5	4.735	1.931	2.804	0.60	105.6
24.950	81.855	9	5	1.0E-15	130.5	4.757	1.941	2.816	0.60	83.4
25.050	82.184	8	5	1.0E-15	130.5	4.778	1.951	2.827	0.60	74.6
25.150	82.512	8	5	1.0E-15	130.5	4.799	1.962	2.838	0.59	70.0
25.250	82.840	8	5	1.0E-15	130.5	4.821	1.972	2.849	0.59	67.5
25.350	83.169	9	5	1.0E-15	130.5	4.842	1.982	2.860	0.59	66.2
25.450	83.496	9	5	1.0E-15	130.5	4.864	1.992	2.871	0.59	82.2
25.550	83.824	8	4	5.0E-06	111.4	4.880	2.002	2.881	0.59	61.5
25.650	84.153	9	4	5.0E-06	111.4	4.902	2.012	2.889	0.59	35.3
25.750	84.481	8	4	5.0E-05	111.4	4.920	2.023	2.897	0.59	61.7
25.850	84.809	8	4	5.0E-05	111.4	4.938	2.033	2.905	0.59	66.6
25.950	85.137	8	4	5.0E-05	111.4	4.957	2.043	2.913	0.59	64.6
26.050	85.465	7	4	5.0E-08	111.4	4.975	2.054	2.921	0.59	76.4
26.150	85.793	7	4	5.0E-08	111.4	4.995	2.064	2.929	0.58	37.7
26.250	86.121	8	4	5.0E-05	111.4	5.013	2.074	2.939	0.59	42.2
26.350	86.449	6	4	5.0E-03	111.4	5.032	2.084	2.948	0.58	43.8
26.450	86.777	8	4	5.0E-03	111.4	5.047	2.095	2.953	0.58	43.1
26.550	87.105	8	4	5.0E-03	111.4	5.066	2.101	2.961	0.58	47.9
26.650	87.433	8	4	5.0E-08	111.4	5.084	2.113	2.969	0.58	45.7
26.750	87.761	6	4	5.0E-03	111.4	5.103	2.123	2.977	0.58	39.6
26.850	88.089	-1893 8	4	5.0E-03	111.4	5.121	2.134	2.985	0.58	33.7
26.950	88.418	-9499 8	4	5.0E-03	111.4	5.139	2.144	2.993	0.58	31.1
27.050	88.746	-9499 8	4	5.0E-06	111.4	5.158	2.155	3.001	0.58	31.1
27.150	89.074	-9499 8	4	5.0E-08	111.4	5.176	2.166	3.009	0.58	33.3

Run No. CJ-0303-1230-5569
WFT File DIGP03 FOF

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-12 SST-RC (Zone)	Col-13 SST-BOn (Zone)	Col-14 Perm X (mD/s)	Col-15 Unit Wt pcf)	Col-16 T Stress (psi)	Col-17 U Stress (psi)	Col-18 E Stress (psi)	Col-19 Cn	Col-20 Pmp (lb/ft)
27.250	89.402	7	4	5.0E-06	111.4	5.194	2.177	3.018	0.56	33.9
27.350	89.730	7	4	5.0E-06	111.4	5.212	2.187	3.025	0.57	30.8
27.450	90.058	7	4	5.0E-06	111.4	5.231	2.197	3.034	0.57	31.1
27.550	90.386	7	4	5.0E-06	111.4	5.249	2.207	3.042	0.57	30.2
27.650	90.714	7	4	5.0E-06	111.4	5.267	2.216	3.050	0.57	29.3
27.750	91.043	7	4	5.0E-06	111.4	5.285	2.226	3.059	0.57	29.3
27.850	91.371	7	4	5.0E-06	111.4	5.304	2.236	3.068	0.57	31.1
27.950	91.699	7	4	5.0E-06	111.4	5.322	2.246	3.076	0.57	31.1
28.050	92.026	7	4	5.0E-06	111.4	5.341	2.256	3.085	0.57	31.8
28.150	92.355	7	4	5.0E-06	111.4	5.359	2.266	3.093	0.57	29.2
28.250	92.683	6	4	5.0E-06	111.4	5.377	2.275	3.102	0.57	29.5
28.350	93.011	6	4	5.0E-07	114.6	5.196	2.269	3.107	0.57	19.4
28.450	93.339	6	3	5.0E-07	114.6	5.419	2.309	3.115	0.57	19.6
28.550	93.667	6	4	5.0E-07	114.6	5.433	2.310	3.124	0.57	21.7
28.650	93.995	6	4	5.0E-07	114.6	5.453	2.320	3.132	0.57	22.0
28.750	94.323	6	4	5.0E-08	111.4	5.471	2.330	3.141	0.56	25.7
28.850	94.651	6	4	5.0E-08	111.4	5.489	2.341	3.149	0.56	25.5
28.950	94.979	6	4	5.0E-08	111.4	5.507	2.351	3.157	0.56	25.4
29.050	95.307	7	4	5.0E-07	114.6	5.525	2.361	3.165	0.56	19.6
29.150	95.635	7	4	5.0E-07	114.6	5.543	2.371	3.173	0.56	16.5
29.250	95.963	6	3	5.0E-07	114.6	5.561	2.381	3.182	0.56	16.7
29.350	96.291	6	3	5.0E-07	114.6	5.562	2.392	3.190	0.56	16.1
29.450	96.620	6	3	5.0E-06	114.6	5.601	2.402	3.199	0.56	13.8
29.550	96.948	5	3	5.0E-06	114.6	5.620	2.412	3.206	0.56	13.7
29.650	97.276	5	3	5.0E-06	114.6	5.639	2.422	3.214	0.56	13.8
29.750	97.604	5	3	5.0E-06	114.6	5.657	2.433	3.223	0.56	13.7
29.850	97.932	6	3	5.0E-06	114.6	5.676	2.443	3.232	0.56	13.8
29.950	98.260	6	3	5.0E-07	114.6	5.695	2.453	3.240	0.56	26.4
30.050	98.588	6	3	5.0E-07	114.6	5.714	2.463	3.248	0.55	27.5
30.150	98.916	7	4	5.0E-08	111.4	5.732	2.474	3.257	0.55	27.6
30.250	99.244	6	4	5.0E-08	111.4	5.751	2.484	3.267	0.55	27.3
30.350	99.572	7	4	5.0E-08	111.4	5.769	2.494	3.275	0.55	28.4
30.450	99.900	7	4	5.0E-08	111.4	5.787	2.504	3.283	0.55	31.9
30.550	100.228	7	4	5.0E-08	111.4	5.805	2.514	3.291	0.55	33.7
30.650	100.557	7	4	5.0E-08	111.4	5.824	2.525	3.299	0.55	32.9
30.750	100.885	7	4	5.0E-08	111.4	5.842	2.535	3.307	0.55	30.9
30.850	101.213	7	4	5.0E-07	114.6	5.861	2.545	3.315	0.55	15.5
30.950	101.541	7	4	5.0E-07	114.6	5.879	2.556	3.324	0.55	70.5
31.050	101.869	6	3	5.0E-06	114.6	5.898	2.566	3.332	0.55	15.5
31.150	102.197	6	3	5.0E-08	111.4	5.917	2.576	3.341	0.55	32.7
31.250	102.525	5	4	5.0E-08	111.4	5.935	2.586	3.349	0.55	31.6
31.350	102.853	7	4	5.0E-07	114.6	5.954	2.597	3.357	0.55	25.0
31.450	103.181	7	4	5.0E-08	111.4	5.972	2.607	3.365	0.55	60.7
31.550	103.509	7	4	5.0E-07	114.6	5.991	2.617	3.373	0.56	21.9
31.650	103.837	6	4	5.0E-07	114.6	6.009	2.627	3.382	0.56	20.6
31.750	104.165	6	4	5.0E-08	111.4	5.528	2.638	3.390	0.56	38.7
31.850	104.493	7	5	5.0E-07	114.6	6.046	2.648	3.399	0.56	33.0
31.950	104.822	7	5	5.0E-07	114.6	6.065	2.658	3.407	0.56	35.6
32.050	105.150	9	5	5.0E-06	114.6	6.084	2.668	3.415	0.56	35.3
32.150	105.478	9	5	5.0E-06	117.9	6.103	2.679	3.423	0.56	42.1
32.250	105.806	9	5	5.0E-06	117.9	6.122	2.689	3.431	0.56	51.9
32.350	106.134	9	5	5.0E-01	120.5	6.142	2.699	3.440	0.56	39.2
32.450	106.462	10	6	5.0E-02	121.1	6.162	2.709	3.448	0.56	48.1
32.550	106.790	9	6	5.0E-01	120.9	6.182	2.720	3.456	0.56	46.6
32.650	107.118	9	6	5.0E-03	114.6	6.201	2.730	3.472	0.56	56.9

Interpretation Output - Release 1.22 Rev A - Build 3 Format: GLP Imperial

Run No: 05-Dec-1958-0600
Job No: 03-771
Client: GeoSynsec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site CPT-05-003
Location: Pigeon Point
Cone 20 TON AD157
Cpt Date: 03/03/03
CPT Time: 13:24
CPT File: 721CP03.COR
Northing (ft): 0.000000
Eastang (ft) 0.000000
Elevation (ft): 0.000000

Water Table (ft): 6.00 Ref. 19.7
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (in): 0.10
Qc Sht Averg: 25.00 Su/P' (Nc): 0.30
Dr Method : JAmiolko-Ski - All Sands
State Parameter Ψ: 0.20
Used Unit Weights Assigned to Soil Zones
Kitts Calculated using qc2n
Kirkp Calculated using qtnes

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-03 N1(60) (bl/ft)	Col-04 N160(cs) fc (bl/ft)	Col-05 N1(60)cs (bl/ft)	Col-06 Qt	Col-07 Fr (%)	Col-08 Bq	Col-09 Id	Col-10 FC (%)	Col-11 Strain (Zone)
0.050	0.164	2.1	0.5	5.2	277.31	0.44	0.22	2.10	5.0	5
0.100	0.492	4.4	1.1	6.6	261.52	1.10	0.24	2.40	26.4	3
0.250	0.820	10.0	5.1	24.0	641.13	0.37	0.01	1.55	3.7	6
0.300	1.148	23.2	6.5	25.8	553.37	1.65	0.01	1.49	5.7	6
0.450	1.476	22.1	8.0	26.0	546.85	1.48	-0.01	1.55	3.8	6
0.500	1.804	18.8	6.5	21.2	299.69	1.55	-0.01	1.82	6.4	6
0.650	2.133	8.7	2.6	7.5	93.55	1.01	0.02	2.15	23.6	5
0.700	2.461	8.2	2.9	9.1	98.87	1.62	0.01	2.05	24.3	5
0.850	2.789	11.9	4.2	8.1	88.07	1.95	0.02	2.27	21.6	5
0.900	2.117	11.3	3.4	8.2	80.15	1.56	0.07	2.17	25.2	5
1.050	3.445	14.4	4.5	10.2	91.91	2.07	0.02	2.01	24.7	5
1.100	3.773	17.1	5.4	10.9	60.79	3.15	0.00	2.52	31.8	5
1.250	4.101	12.3	2.5	7.7	39.75	2.08	0.07	2.45	36.7	4
1.300	4.429	14.6	3.9	11.1	50.43	2.95	0.07	2.50	36.5	5
1.450	4.757	20.7	6.5	12.4	102.05	1.81	0.03	2.39	22.2	5
1.500	5.085	16.6	4.7	9.8	70.69	1.14	0.05	2.29	21.5	5
1.650	5.413	12.2	4.0	7.6	51.23	0.91	0.00	2.32	23.3	5
1.700	5.741	21.5	8.1	14.5	114.11	1.68	0.01	2.16	17.7	5
1.850	6.069	16.5	5.6	9.7	64.39	2.47	0.00	2.49	30.1	5
1.900	6.398	27.7	11.0	16.6	142.54	1.67	0.02	2.11	16.1	5
2.050	6.726	34.3	16.6	27.0	229.12	0.57	0.01	1.75	7.9	6
2.100	7.054	21.6	9.7	15.5	135.78	1.15	0.02	2.05	14.5	5
2.250	7.382	17.1	7.2	7.7	56.34	2.97	1.01	2.74	42.6	4
2.300	7.710	17.2	6.7	9.6	39.28	4.69	1.02	2.64	37.5	4
2.450	8.038	20.8	7.6	11.3	62.71	3.79	0.02	2.51	34.1	5
2.500	8.366	24.3	8.9	12.3	71.50	3.15	0.01	2.52	31.9	5
2.650	8.694	14.7	5.4	10.6	50.51	2.78	0.01	2.42	21.4	5
2.700	9.022	8.7	3.5	6.8	24.07	2.30	0.05	2.67	32.0	4
2.850	9.350	11.1	5.1	6.8	29.85	2.56	0.03	2.64	37.4	4
2.900	9.678	8.8	3.9	6.6	23.02	2.69	0.03	2.66	35.2	4
3.050	10.006	4.7	1.8	2.3	8.76	2.18	1.04	2.97	55.5	3
3.100	10.335	14.9	7.1	9.4	55.76	0.77	0.02	2.14	17.2	5

Aux Ob 01 0106-1256-5503
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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Sl(tot) (lb/ft3)	Col-04 Sl(eff)c (lb/ft3)	Col-05 Sl(eff)c (lb/ft3)	Col-06 Qc	Col-07 Fr (%)	Col-08 Rq	Col-09 Bq	Col-10 Ic	Col-11 Behavior Zone
1.250	10.663	16.7	7.5	9.2	43.44	3.11	0.01	2.58	34.5	5
1.300	10.991	23.6	12.8	16.2	90.92	1.96	0.01	2.21	19.6	5
1.450	11.319	25.5	8.1	10.1	49.06	2.91	0.01	2.52	31.5	5
1.500	11.647	8.7	1.1	4.6	16.20	1.66	0.01	2.06	19.4	4
1.600	11.976	12.1	7.1	9.5	45.15	1.35	0.02	2.39	33.4	5
1.750	12.303	20.7	10.1	13.9	61.46	2.02	0.01	2.35	23.5	5
1.800	12.631	19.1	11.2	13.5	68.96	1.72	0.00	2.25	20.7	5
1.950	12.959	11.4	6.5	7.6	33.42	2.17	0.02	2.54	32.6	5
2.000	13.287	5.3	2.1	2.9	8.19	2.81	0.01	3.04	43.3	3
2.150	13.615	5.4	3.2	3.7	14.42	0.77	0.00	2.58	34.3	5
2.200	13.943	6.2	4.1	4.7	16.83	1.19	0.01	2.58	34.4	5
2.350	14.271	13.7	7.6	8.3	37.09	1.59	0.02	2.31	26.1	5
2.400	14.600	13.3	8.0	8.9	36.42	2.76	0.04	2.55	33.1	5
2.550	14.928	19.1	10.5	12.0	52.63	2.53	0.00	2.41	26.3	5
2.600	15.256	23.2	14.8	16.2	76.14	1.91	0.01	2.22	19.5	5
2.750	15.584	23.2	15.0	16.2	75.52	2.01	0.00	2.22	19.8	5
2.800	15.912	17.2	6.5	9.3	38.45	3.61	0.00	2.81	35.8	4
2.950	16.240	26.5	21.6	23.0	49.35	3.88	0.02	2.46	28.8	5
3.000	16.568	30.7	25.2	25.6	84.67	3.31	0.03	2.46	28.6	5
3.150	16.896	29.3	30.3	30.8	99.74	1.31	0.03	2.61	30.7	6
3.200	17.224	29.5	30.2	30.1	62.28	3.23	0.01	2.47	29.5	5
3.350	17.552	13.4	8.7	8.5	31.67	2.18	0.03	2.91	31.2	5
3.400	17.880	10.4	6.8	6.8	25.79	1.48	0.03	2.45	30.5	5
3.550	18.208	7.5	4.0	3.6	10.46	1.88	0.03	2.03	61.6	3
3.600	18.537	8.4	5.7	5.1	18.02	2.62	0.01	2.76	43.5	4
3.750	18.865	7.6	5.3	4.5	14.71	3.04	0.01	2.90	52.0	4
3.800	19.193	27.4	25.3	24.4	67.96	5.82	0.03	3.96	32.3	6
3.950	19.521	9.6	6.4	6.2	22.15	1.35	0.03	2.49	40.4	5
4.000	19.849	6.0	3.8	3.2	10.31	1.11	0.03	2.76	64.9	4
4.150	20.177	6.2	5.0	4.3	14.34	2.07	0.01	2.73	44.7	4
4.200	20.505	10.5	9.3	8.7	35.43	2.88	0.01	2.22	19.4	5
4.350	20.833	10.3	7.7	8.6	29.30	2.64	0.02	2.64	38.6	4
4.400	21.161	6.8	5.9	4.9	15.24	1.34	0.03	2.56	49.7	4
4.550	21.489	10.2	14.3	13.9	54.17	1.45	0.03	2.19	18.7	5
4.600	21.817	11.4	8.1	7.3	26.19	2.81	0.01	2.56	37.9	4
4.750	22.145	9.5	6.1	5.7	17.12	1.35	0.02	2.63	47.9	4
4.800	22.473	19.0	15.7	12.2	46.50	2.31	0.01	2.19	25.6	5
4.950	22.801	16.1	10.1	9.6	30.41	3.75	0.01	2.04	19.3	4
5.000	23.130	12.2	8.5	7.5	27.59	1.78	0.00	2.47	24.2	5
5.150	23.458	9.4	6.8	6.1	21.07	1.52	0.01	2.52	31.6	5
5.200	23.786	20.0	8.7	7.6	28.79	1.33	0.01	2.37	25.3	5
5.350	24.114	26.3	23.7	22.5	49.69	1.44	0.01	2.21	19.1	5
5.400	24.442	24.4	9.4	7.6	25.57	1.92	0.01	2.74	42.9	4
5.550	24.770	24.9	7.9	6.1	20.63	4.38	0.03	2.84	49.8	4
5.600	25.098	21.7	8.7	7.5	25.88	3.24	0.01	2.54	32.4	5
5.750	25.426	17.2	8.0	6.9	21.27	2.97	0.01	2.73	42.1	4
5.800	25.754	11.8	9.3	7.0	26.03	2.36	0.00	2.60	35.4	4
5.950	26.082	13.4	10.9	7.7	28.35	2.67	0.00	2.10	25.4	4
6.000	26.411	13.7	9.1	8.0	23.29	3.43	0.20	2.74	42.4	4
6.150	26.739	11.0	7.7	6.7	18.10	3.57	0.01	2.52	47.2	4
6.200	27.067	11.6	6.6	6.8	14.04	6.06	0.00	2.94	64.3	4
6.350	27.396	12.4	7.6	5.4	17.56	3.61	0.53	1.53	47.4	4
6.400	27.723	22.4	5.9	7.3	25.53	2.78	0.00	2.44	37.2	4
6.550	28.052	14.9	12.6	10.9	36.50	2.56	0.00	2.46	35.0	4
6.600	28.379	11.5	7.5	6.4	16.84	4.10	0.01	2.39	52.1	4
6.750	28.707	6.7	4.4	3.9	8.21	3.19	0.27	2.32	57.2	4
6.800	29.035	5.1	4.9	3.3	11.38	2.46	0.11	2.75	65.4	4
6.950	29.363	7.9	7.0	6.9	24.15	2.98	0.01	2.78	65.1	4
7.000	29.691	12.5	9.5	8.3	26.68	2.04	0.00	2.44	41.9	5
7.150	30.019	20.4	24.5	23.4	59.21	1.42	0.00	2.41	26.0	5

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Col 01 Depth (m)	Col 02 Depth (ft)	Col 21 (1600) (g/cc)	Col-22 (1600)2e (g/cc)	Col-23 (1600)3e (g/cc)	Col-24 Qz	Col-25 Fe (%)	Col-26 Bz	Col-27 Sc	Col-28 PE (%)	Col-29 (Comp)
9.250	30.347	33.8	35.1	8.7	97.25	2.64	0.06	2.63	31.9	6
9.350	30.675	31.6	8.7	6.0	19.43	4.02	0.00	2.84	63.6	6
9.450	31.004	35.9	36.9	7.6	94.55	1.61	0.00	2.70	40.7	6
9.550	31.332	35.4	36.7	7.4	25.56	3.75	0.00	2.71	47.1	6
9.650	31.660	33.1	31.0	7.6	27.21	3.11	0.00	2.65	33.4	6
9.750	31.988	35.9	34.0	11.8	19.95	2.23	0.00	2.37	25.4	6
9.850	32.316	36.0	40.9	7.6	26.18	3.29	0.00	2.66	35.8	6
9.950	32.644	36.2	36.0	6.9	23.20	3.30	0.00	2.73	42.3	6
10.050	32.972	33.6	31.3	7.6	29.36	2.90	0.00	2.64	31.2	6
10.150	33.300	34.3	30.1	6.7	23.33	3.25	0.00	2.72	43.3	6
10.250	33.628	31.5	6.5	5.5	20.26	1.18	0.00	2.42	47.2	6
10.350	33.956	12.7	7.6	4.8	24.84	4.09	0.00	2.84	54.4	6
10.450	34.284	15.6	7.9	5.3	15.60	4.43	0.00	2.72	51.5	6
10.550	34.612	13.8	9.9	8.4	22.02	3.19	0.00	2.74	42.5	6
10.650	34.941	5.9	7.3	6.5	25.16	1.77	0.03	2.52	51.2	6
10.750	35.269	11.5	7.2	4.8	13.27	4.45	0.11	2.09	58.8	3
10.850	35.597	12.5	9.5	6.3	19.70	3.64	0.02	2.81	46.7	6
10.950	35.925	15.3	9.3	5.8	17.59	5.00	0.03	2.94	54.3	6
11.050	36.253	11.1	10.2	6.8	20.78	4.15	0.02	2.67	47.5	6
11.150	36.581	11.1	11.6	8.2	10.11	2.99	0.00	2.62	36.1	6
11.250	36.909	15.0	11.1	6.9	23.52	3.77	0.00	2.76	41.5	6
11.350	37.237	11.2	8.0	5.4	17.10	3.88	-0.01	2.25	50.6	6
11.450	37.565	15.6	8.5	5.1	16.09	3.94	0.00	2.92	52.1	6
11.550	37.893	11.3	11.0	7.1	26.04	1.68	0.00	2.47	35.5	6
11.650	38.221	14.6	8.9	5.1	16.56	4.27	0.01	2.92	52.8	6
11.750	38.549	10.4	8.6	6.0	25.67	2.11	0.00	2.61	39.9	6
11.850	38.877	11.5	9.4	6.5	28.05	1.81	0.00	2.85	49.2	6
11.950	39.205	12.5	9.8	6.8	27.16	3.43	-0.01	2.80	46.3	6
12.050	39.536	15.1	17.2	11.7	47.76	1.34	0.05	2.15	17.5	5
12.150	39.862	16.6	13.6	10.7	42.81	2.49	0.00	2.46	29.1	5
12.250	40.190	15.1	8.8	5.3	19.47	3.29	0.00	2.55	56.7	6
12.350	40.518	7.9	7.9	6.0	17.63	1.22	-0.01	2.16	23.0	5
12.450	40.845	8.8	8.2	6.4	11.93	0.77	0.01	2.32	25.2	5
12.550	41.174	10.2	9.5	7.4	21.91	0.94	0.00	2.30	22.6	5
12.650	41.502	10.5	9.7	7.6	23.73	1.01	0.00	2.31	23.0	5
12.750	41.830	8.5	9.7	6.9	19.01	1.47	0.00	2.01	36.0	6
12.850	42.158	9.5	9.6	7.3	22.12	1.09	0.00	2.36	24.5	5
12.950	42.486	10.3	9.7	7.5	22.97	1.07	0.01	2.33	23.6	5
13.050	42.814	13.3	10.7	8.3	26.58	0.59	0.00	2.24	18.4	5
13.150	43.141	9.3	11.2	8.5	21.99	0.62	0.00	2.20	19.2	5
13.250	43.471	7.4	7.0	3.7	13.13	1.28	-0.01	2.70	48.4	6
13.350	43.799	4.0	4.6	2.1	6.66	1.14	0.05	2.99	71.2	3
13.450	44.127	4.5	4.6	2.1	7.62	0.68	0.06	2.81	46.3	4
13.550	44.455	4.5	4.6	2.1	7.28	0.50	0.04	2.17	14.9	4
13.650	44.783	4.0	-9999.0	-9999.0	6.28	0.16	0.04	-9999.0	-9999.0	0
13.750	45.111	3.7	-9999.0	-9999.0	5.72	0.44	0.04	-9999.0	-9999.0	0
13.850	45.439	3.7	3.0	1.8	5.76	0.57	0.07	2.28	50.1	4
13.950	45.767	3.8	-9999.0	-9999.0	5.95	0.42	0.09	-9999.0	-9999.0	0
14.050	46.095	3.8	9999.0	-9999.0	5.84	0.41	0.08	-9999.0	-9999.0	0
14.150	46.423	3.8	4.0	3.8	5.86	0.56	0.03	2.27	50.1	4
14.250	46.751	3.7	-9999.0	-9999.0	5.72	0.16	0.05	9999.0	-9999.0	0
14.350	47.079	3.9	-9999.0	9999.0	5.92	0.43	0.05	-9999.0	-9999.0	0
14.450	47.406	3.9	-9999.0	-9999.0	6.04	0.44	0.10	-9999.0	-9999.0	0
14.550	47.734	3.8	9999.0	-9999.0	5.85	0.46	0.10	-9999.0	-9999.0	0
14.650	48.062	4.2	4.5	2.0	6.49	0.70	1.05	2.86	43.7	4
14.750	48.390	4.2	-9999.0	-9999.0	6.54	0.41	0.01	9999.0	9999.0	0
14.850	48.720	4.0	-9999.0	-9999.0	6.03	0.35	0.07	9999.0	-9999.0	0
14.950	49.044	3.9	-9999.0	-9999.0	5.84	0.40	0.10	-9999.0	-9999.0	0
15.050	49.374	3.9	-9999.0	-9999.0	5.84	0.40	0.12	-9999.0	-9999.0	0
15.150	49.704	3.9	-9999.0	-9999.0	5.77	0.45	0.14	-9999.0	-9999.0	0

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Ni1601 (bar)	Col-22 Ni602Ic (bar)	Col-23 Ni1601Ic (bar)	Col-24 Qt	Col-25 Fr (%)	Col-26 Eq	Col-27 Ic	Col-28 FC (%)	Col-29 IcZone (Zone)
15.250	50.032	5.8	-9999.0	-9999.0	5.66	0.17	0.14	-9999.0	-9999.0	0
15.350	50.360	5.9	6.3	1.8	5.84	0.53	0.10	2.66	67.8	4
15.450	50.688	5.9	6.3	1.8	5.79	0.52	0.14	2.67	66.9	4
15.550	51.016	5.7	6.2	1.8	5.38	0.71	0.15	2.94	64.7	4
15.650	51.345	6.1	6.5	1.5	6.21	0.53	0.10	2.64	63.3	4
15.750	51.673	6.5	6.7	2.0	6.53	0.44	0.05	2.77	64.5	4
15.850	52.001	6.6	6.5	2.0	6.41	0.65	0.05	2.84	65.6	4
15.950	52.329	6.1	6.3	2.2	7.58	0.50	0.03	2.75	63.0	4
16.050	52.657	6.6	6.8	2.1	7.16	0.60	0.06	2.81	65.3	4
16.150	52.985	6.7	6.8	2.1	7.15	0.57	0.04	2.80	65.6	4
16.250	53.313	6.6	6.9	2.1	6.60	0.93	0.08	2.86	65.5	4
16.350	53.641	6.2	6.5	1.9	6.16	0.69	0.01	2.86	63.6	4
16.450	53.969	5.7	6.2	1.7	5.71	0.60	0.12	2.92	61.3	4
16.550	54.297	5.9	6.5	1.8	5.84	0.65	0.05	2.91	62.1	4
16.650	54.625	6.5	6.9	2.0	6.49	0.58	0.03	2.82	67.3	4
16.750	54.953	6.2	6.8	1.9	6.31	0.54	-0.02	2.85	66.0	4
16.850	55.281	6.7	6.7	1.9	6.67	0.58	0.01	2.86	65.3	4
16.950	55.610	6.3	6.9	2.0	6.20	0.70	0.01	2.88	66.9	4
17.050	55.938	6.6	6.9	2.0	6.71	0.59	0.07	2.80	65.9	4
17.150	56.266	3.7	-9999.0	-9999.0	6.46	0.30	0.03	-9999.0	-9999.0	0
17.250	56.594	6.2	-9999.0	-9999.0	7.45	0.13	0.04	-9999.0	-9999.0	0
17.350	56.922	6.2	-9999.0	-9999.0	7.10	0.13	-0.02	-9999.0	9999.0	0
17.450	57.250	1.6	-9999.0	-9999.0	0.67	0.14	-0.02	9999.0	9999.0	0
17.550	57.578	2.6	-9999.0	-9999.0	6.60	0.14	0.03	9999.0	9999.0	0
17.650	57.906	3.0	-9999.0	-9999.0	6.59	0.11	0.03	9999.0	-9999.0	0
17.750	58.234	3.7	-9999.0	-9999.0	6.26	0.15	0.02	-9999.0	9999.0	0
17.850	58.562	3.7	-9999.0	-9999.0	6.32	0.15	0.03	-9999.0	9999.0	0
17.950	58.890	3.9	-9999.0	-9999.0	6.56	0.14	0.06	9999.0	9999.0	0
18.050	59.218	4.1	9999.0	-9999.0	7.03	0.19	0.01	-9999.0	9999.0	1
18.150	59.547	4.4	9999.0	-9999.0	7.65	0.17	0.06	-9999.0	-9999.0	0
18.250	59.875	4.5	-9999.0	-9999.0	7.98	0.13	-0.01	-9999.0	-9999.0	0
18.350	60.203	4.7	-9999.0	-9999.0	8.05	0.11	-0.04	-9999.0	-9999.0	0
18.450	60.531	4.5	9999.0	-9999.0	7.91	0.12	-0.01	-9999.0	-9999.0	0
18.550	60.859	4.1	-9999.0	-9999.0	7.97	0.13	-0.05	-9999.0	-9999.0	0
18.650	61.187	4.3	-9999.0	-9999.0	7.53	0.12	-0.01	-9999.0	9999.0	0
18.750	61.515	4.2	-9999.0	-9999.0	7.10	0.09	-0.01	-9999.0	9999.0	0
18.850	61.843	4.7	-9999.0	-9999.0	7.23	0.15	0.02	9999.0	-9999.0	0
18.950	62.171	4.0	-9999.0	-9999.0	6.82	0.13	0.02	-9999.0	-9999.0	0
19.050	62.499	4.1	-9999.0	-9999.0	6.92	0.13	0.02	-9999.0	-9999.0	0
19.150	62.827	4.3	-9999.0	-9999.0	6.53	0.12	0.02	-9999.0	-9999.0	0
19.250	63.155	4.3	-9999.0	9999.0	7.34	0.13	-0.03	-9999.0	-9999.0	0
19.350	63.483	4.2	9999.0	-9999.0	7.02	0.12	-0.01	-9999.0	-9999.0	0
19.450	63.812	4.0	-9999.0	-9999.0	6.58	0.10	-0.01	-9999.0	-9999.0	0
19.550	64.140	4.0	-9999.0	-9999.0	6.55	0.13	0.01	9999.0	-9999.0	0
19.650	64.468	3.8	-9999.0	-9999.0	6.22	0.14	0.02	9999.0	-9999.0	0
19.750	64.796	3.8	-9999.0	9999.0	6.26	0.17	0.01	-9999.0	-9999.0	0
19.850	65.124	3.9	-9999.0	-9999.0	6.17	0.15	0.03	-9999.0	-9999.0	0
19.950	65.452	4.1	-9999.0	9999.0	6.47	0.18	0.01	-9999.0	-9999.0	0
20.050	65.780	4.0	-9999.0	-9999.0	6.41	0.13	0.07	-9999.0	9999.0	0
20.150	66.109	4.0	9999.0	-9999.0	6.32	0.19	0.00	-9999.0	-9999.0	0
20.250	66.437	1.7	6.4	2.3	7.52	0.59	0.02	2.73	63.4	4
20.350	66.765	4.9	6.7	2.5	8.10	0.71	0.00	2.72	64.4	4
20.450	67.093	4.6	6.2	2.2	7.61	0.96	-0.05	2.77	64.1	4
20.550	67.420	4.6	6.5	2.3	7.62	0.75	-0.05	2.82	67.1	4
20.650	67.749	5.2	7.4	2.7	8.68	1.10	-0.01	2.82	67.1	4
20.750	68.077	5.0	7.2	2.6	8.44	1.16	0.04	2.85	68.8	4
20.850	68.405	9.7	13.0	8.5	24.26	0.62	0.01	2.09	25.6	5
20.950	68.733	13.4	20.2	13.2	41.18	0.32	-0.02	2.19	5.5	5
21.050	69.061	9.7	13.5	8.8	24.11	0.75	-0.02	2.17	26.0	5
21.150	69.389	10.9	12.2	7.9	20.35	1.10	-0.01	2.32	25.2	5

Run No C:\CIBB-12\B-1\CO
CPT File: T21CP01.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Si(60) (lb/in²)	Col-22 Si(60)Sc (lb/in²)	Col-23 Si(60)Tc (lb/in²)	Col-24 Qc	Col-25 Fs (kg)	Col 26 Rf	Col-27 Ic	Col-28 FC (%)	Col-29 Ic Zone
21.350	69.717	14.2	19.2	12.5	26.01	0.95	-0.01	3.03	15.4	5
21.400	69.946	14.7	20.7	13.4	27.33	1.44	-0.02	3.15	18.4	5
21.450	70.175	19.3	26.6	16.6	40.30	1.17	-0.01	2.83	13.5	5
21.500	70.390	16.3	20.1	13.1	34.14	2.06	-0.02	2.31	23.0	5
21.550	70.639	15.3	19.4	13.2	28.13	2.11	-0.02	2.35	25.4	5
21.750	71.357	16.3	19.9	11.5	30.26	1.56	-0.02	2.21	21.4	5
21.850	71.685	14.8	17.1	11.0	27.45	2.04	-0.02	2.31	25.3	5
21.950	72.014	17.6	19.9	12.7	32.50	2.02	-0.02	2.31	23.3	5
22.050	72.342	15.8	18.6	11.9	29.33	2.45	-0.02	2.41	28.7	5
22.150	72.670	23.8	32.6	20.8	60.56	1.67	-0.01	2.07	14.3	5
22.250	72.998	26.6	29.7	19.0	50.72	2.61	-0.01	2.25	21.2	5
22.350	73.326	50.3	23.7	9.1	31.10	5.03	-0.02	2.75	43.6	4
22.400	73.454	47.6	22.6	8.6	29.23	4.90	-0.02	2.77	44.2	4
22.500	73.982	26.0	21.8	9.1	31.59	4.24	-0.02	2.70	40.1	4
22.600	74.310	25.5	27.9	17.5	47.78	2.10	-0.01	2.21	19.2	5
22.750	74.639	22.1	22.1	14.0	34.06	2.59	-0.02	2.41	27.0	5
22.850	74.965	25.0	33.6	21.2	62.90	1.35	-0.01	1.93	12.6	6
22.950	75.294	33.7	44.2	27.9	64.96	1.50	-0.01	1.93	11.1	6
23.050	75.622	25.9	40.0	25.2	72.52	1.95	-0.01	2.06	14.7	6
23.150	75.951	27.1	36.9	22.6	61.81	1.30	-0.01	1.95	11.7	6
23.250	76.279	20.6	26.4	16.5	42.36	2.57	-0.02	2.30	22.6	5
23.350	76.607	44.2	22.3	8.4	25.53	6.47	-0.02	2.58	50.9	4
23.450	76.935	51.2	26.5	9.9	34.71	6.66	-0.02	2.70	50.4	4
23.500	77.263	19.1	23.2	14.3	38.15	2.69	-0.02	2.37	25.1	5
23.650	77.591	13.3	16.4	6.8	16.53	3.36	-0.03	2.75	45.6	4
23.750	77.919	13.3	16.6	6.1	16.25	4.72	-0.04	2.97	56.6	3
23.850	78.247	21.9	17.9	6.2	14.85	5.50	-0.03	2.96	54.7	4
23.950	78.575	22.1	17.6	6.2	14.24	5.27	-0.03	2.92	51.5	4
24.750	78.903	31.4	18.0	6.3	15.41	5.06	0.03	2.96	54.6	4
24.150	79.231	25.7	15.1	5.6	11.14	6.71	0.15	3.07	63.6	3
24.250	79.559	27.9	15.8	5.6	12.81	5.62	-0.04	3.02	59.7	3
24.350	79.887	25.9	17.4	6.0	13.05	7.37	-0.05	3.06	62.7	3
24.450	80.214	30.4	16.1	6.2	13.51	8.16	-0.06	3.08	64.2	3
24.550	80.544	27.1	18.9	6.5	12.41	9.33	-0.06	3.07	63.6	3
24.650	80.872	30.2	19.1	6.6	12.45	9.67	-0.06	3.08	63.9	3
24.750	81.200	39.6	20.0	9.2	20.07	6.25	-0.02	2.83	48.0	4
24.850	81.528	53.0	31.9	13.0	37.67	5.05	0.02	2.75	41.6	4
24.950	81.856	49.1	26.4	9.3	25.89	7.22	0.02	2.61	53.7	4
25.050	82.184	44.4	24.7	8.6	25.27	6.26	0.03	2.67	55.2	3
25.150	82.512	41.5	23.2	8.0	24.06	7.33	-0.03	2.87	56.3	3
25.250	82.840	42.9	23.6	8.1	24.87	7.31	-0.03	2.86	54.5	4
25.350	83.168	39.3	22.4	7.6	22.44	8.19	-0.03	3.00	58.1	3
25.450	83.496	36.7	21.3	7.2	20.74	8.04	-0.03	3.01	59.3	3
25.550	83.824	24.5	15.9	5.1	15.44	4.42	-0.05	3.18	72.1	1
25.650	84.153	20.6	14.5	4.2	10.38	7.05	-0.06	3.39	79.4	1
25.750	84.481	24.7	15.1	4.8	13.32	5.60	-0.05	3.13	68.1	2
25.850	84.809	27.0	16.7	5.4	14.93	7.31	-0.05	3.12	65.5	2
25.950	85.137	25.0	16.5	5.3	14.22	9.01	0.05	3.16	68.6	2
26.050	85.465	22.8	14.5	4.6	13.03	7.42	-0.06	3.38	78.1	1
26.150	85.793	22.0	14.1	4.4	11.77	6.67	-0.06	3.35	81.7	1
26.250	86.121	24.6	15.2	4.6	13.22	6.57	-0.05	3.31	66.7	2
26.350	86.449	24.0	15.7	4.9	13.11	7.66	-0.05	3.16	65.6	2
26.450	86.777	25.4	16.1	5.0	13.74	7.29	-0.05	3.13	67.4	2
26.550	87.105	27.6	17.3	5.5	15.15	7.50	-0.05	3.10	65.7	2
26.650	87.433	27.1	17.1	5.4	14.70	7.69	0.05	3.12	67.0	2
26.750	87.761	22.9	15.2	4.7	12.13	8.05	-0.06	3.39	78.5	1
26.850	88.089	19.5	13.1	4.1	11.07	8.58	-0.07	3.51	78.4	1
26.950	88.418	17.9	12.1	3.7	9.68	7.63	-0.08	3.59	79.7	1
27.050	88.746	17.9	12.1	3.7	9.80	7.71	-0.08	3.58	79.4	1
27.150	89.074	15.6	11.1	3.8	9.72	6.67	-0.07	3.22	74.2	1

Run No: [illegible]
CPT File: [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Rf (60) (D/Ex)	Col-22 Rf(60)ic (D/Ex)	Col-23 Rf(60) ic (D/Ex)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 In	Col-28 FR (%)	Col-29 Soilbeh (Zone)
27.250	89.402	16.5	13.6	4.0	10.31	7.58	0.05	3.24	76.3	3
27.360	89.810	17.7	13.8	3.9	8.91	7.98	0.05	3.25	81.5	3
27.460	90.026	13.8	12.5	3.6	8 99	6.92	-0.03	3.25	77.2	3
27.560	90.386	11.5	10 1	3.5	8 65	7 10	-0.02	3.27	96.9	3
27.660	90.714	14.6	11.9	3 4	8 22	6 68	-0.02	3 29	95.4	3
27.760	91 042	11.9	9 9	3 3	8 22	6 52	-0 01	3 28	97 9	3
27 860	91 370	11.4	12.3	3 5	9 94	6.11	0 01	3 22	74.5	3
27 960	91.698	10.4	12 1	3 7	9 53	5.94	0 02	3 19	72.2	3
28 060	92.026	12.4	12 5	3 6	9.05	5.59	0 01	3.16	71 3	3
28 160	92.355	16.4	11 9	3 3	8.12	6.47	0 03	3.27	76.4	3
28 260	92 861	15.5	11 3	3.0	7.47	5.80	0 07	3 27	76 4	3
28 360	93.311	9.5	10 6	2 8	7.04	5.21	0 05	3 26	76 1	3
28 460	93.639	10 2	10.5	2 8	7.13	4.95	0 12	3.24	76 5	3
28 560	93 967	12.3	12.3	3 4	9.13	5.12	0 12	3.17	70.3	3
28 660	95.990	12 4	12.5	3 5	9.29	5.61	0.09	3.16	71.4	3
28 760	94.323	15.2	12.5	3.3	8.14	6.13	0.07	3.26	77.3	3
28 860	94.651	14.6	11.1	2.9	6 81	6.90	0.06	3.34	84.8	3
28.960	94.979	14.3	11.0	2.9	7 00	6.81	0.07	3.30	93.0	3
29 060	95.307	10.6	11.2	3 0	7 47	5 41	0 02	3.25	77.1	3
29 160	95.636	9.3	10.5	2.7	6 40	5.75	0 02	3.12	82 6	3
29 260	95.963	6.3	9.7	2 4	5.53	5.04	0 06	3.16	86 1	3
29 360	96.291	7.5	9.2	2 2	5 15	4,94	0 06	3,16	95.3	3
29.460	96.620	5.6	8.8	2 1	4 78	4 64	0 11	3.17	97 7	3
29 560	96.948	5.8	8.9	2 1	4 97	4 42	0 11	3.14	94 5	3
29.660	97.276	5.1	9.2	2 2	5 37	4 25	0 11	3 11	81.1	3
29 760	97.604	6.2	9.4	2 3	5 69	4.69	0 11	3 15	83.2	3
29.860	97.932	5.7	10.0	2 5	7.02	4.81	0 11	3 29	90.5	3
29.960	98.260	6.5	10 0	2 5	6.66	5.56	0 06	3 25	85.5	3
30.060	98 588	9.5	10.8	2 7	7 59	5 54	0 03	3 20	81 0	3
30 160	98 916	15.6	11 5	1.0	7 15	6.36	0 07	3 11	81 7	3
30 260	99 244	15.1	11.5	3.0	6.98	6.37	0 05	3 11	82 0	3
30 360	99 572	15 7	11.7	3.0	7 09	6.29	0.04	3 09	80 1	3
30.460	99 900	17 1	12.4	3.2	6.30	6.22	0.01	3 04	76 5	3
30 560	100 228	18 6	13 2	3.5	6.92	6.96	0.05	3 01	74 2	3
30 660	100 557	18 1	13.2	3.5	6.45	6.49	0.01	3 04	77 4	3
30.760	100 885	17.0	12.5	3.2	7.56	6.21	0 04	3 06	78 1	3
30.860	101 213	16.7	12 9	3 0	7.46	5.20	0 02	3 27	78 6	3
30.960	101 541	13.3	12 9	3.2	7.52	5.19	0 04	3.23	76.2	3
31.060	101 869	8.7	12 3	3 1	5.14	1.98	0 10	3.28	72.2	3
31.160	102.197	17.7	12.9	3.3	5.44	5.10	0.15	3.26	76 4	3
31 260	102.525	20.5	14.2	3.8	5.06	5.93	0 14	3.17	78 7	3
31 360	102 851	15.8	15.8	4.2	12.75	5.28	0.06	3.09	14 4	3
31 460	103 181	22.2	15.1	4.0	10.65	7.73	0 01	3.15	58 5	3
31 560	103 509	13.6	13.7	3 6	9.33	5.71	0 04	3 19	72 2	3
31 660	103 837	17.3	14.5	3 8	9.54	6.63	0.03	3 17	70 9	3
31 760	104.165	25.0	14.9	3 9	10 15	4.44	0 07	3 19	72 4	3
31 859	104.493	17.9	17.4	4 7	13.47	5.67	0 03	3 06	62.8	3
31 961	104.822	19.4	18.4	5 1	14.69	5.55	0 04	3.03	59.6	3
32 059	105.150	19.6	27.2	7 5	29.95	3.67	0.01	2.72	61.7	4
32 160	105 478	23.1	30.2	16 7	37.33	2.61	-0 01	2.38	32 6	5
32 260	105 804	27.5	35.5	19.3	44.97	3.61	-0 01	2 24	28 1	5
32 360	106.134	27.1	42.8	23 5	59.12	3.37	-0 01	2 09	14 6	5
32 460	106.462	26.6	49.6	27 2	72.45	3.42	0 00	1 92	10 8	6
32.560	106.790	26.0	41.4	22 6	55.53	3.84	-0 01	2 07	14 9	5
32 660	107 118	19.1	35.5	18.4	40.20	3.16	-0.01	2.24	26.0	5

CanaTec Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev. A - Build 5 Format: NLP Imperial
Run No: 05 0108 1255 9500
Job No: 01-722
Client: EnSystem Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-001
Location: Pigeon Point
Cone: 20 TON ADIST
CPT Date: 05/03/03
CPT Time: 10:24
CPT File: 721CP13.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 0.00 (ft) 19.7
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Su Net used: 15.00 Su/Pt (ksf): 0.30
Dr Method: Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
N160s Calculated using qcin
N160s Calculated using qclnos

Col 01 Depth (m)	Col 02 Depth (ft)	Col 10 Dr (%)	Col 12 Phi (deg)	Col-32 State Par	Col-33 Cu/qt	Col-34 Young$ (tsf)	Col 35 Su (tsf)	Col 36 OCR
1.050	0.264	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.245	10.0
1.150	0.492	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.302	10.0
1.250	0.520	76.9	50.0	-0.26	1.046	98.1	-9999.0	-9999.0
1.350	1.048	76.7	50.0	-0.30	1.410	70.9	-9999.0	-9999.0
1.450	1.476	80.2	50.0	-0.24	1.895	88.6	-9999.0	-9999.0
1.550	1.504	63.9	46.0	-0.21	2.245	85.9	-9999.0	-9999.0
1.650	2.033	34.2	42.0	-0.13	3.656	61.6	0.747	10.0
1.750	2.461	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.558	10.0
1.850	2.789	37.1	42.0	-0.17	1.504	50.2	0.944	10.0
1.950	3.017	36.1	42.0	-0.14	3.555	52.0	0.960	10.0
2.050	3.445	42.0	42.0	-0.26	3.216	60.9	1.242	10.0
2.150	3.773	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.880	10.0
2.250	4.101	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.626	10.0
2.350	4.429	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.026	10.0
2.450	4.757	45.9	42.0	0.25	2.361	84.7	1.962	10.0
2.550	5.085	35.5	40.0	-0.16	3.376	70.7	1.375	10.0
2.650	5.413	33.9	40.0	-0.13	3.561	65.5	1.165	10.0
2.750	5.741	55.1	42.0	0.24	2.568	98.5	-9999.0	9999.0
2.850	6.065	9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.499	10.0
2.950	6.395	62.6	44.0	-0.27	2.782	120.2	-9999.0	-9999.0
3.050	6.726	77.0	44.0	-0.26	1.345	173.6	-9999.0	-9999.0
3.150	7.054	58.2	47.0	-0.21	2.437	115.9	-9999.0	-9999.0
3.250	7.382	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.749	10.0
3.350	7.710	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.162	10.0
3.450	8.038	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.948	10.0
3.550	8.366	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.101	10.0
3.650	8.694	42.9	40.0	-0.23	3.156	98.4	2.025	10.0
3.750	9.022	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.235	9.5
3.850	9.350	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.002	10.0
3.950	9.676	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.878	9.2
4.050	10.006	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.139	2.2
4.150	10.335	43.0	40.0	-0.11	1.150	107.5	-9999.0	-9999.0

Run No: 01-0308-3758-5509
CPT File 721CP03 CCR

Col 01 Depth (m)	Col 02 Depth (ft)	Col 30 Qt (N)	Col 31 Phi (deg)	Col 32 Scale Par	Col 33 Ds/qt	Col 34 Young@ /csf)	Col 35 Nu (csf)	Col 36 OCR
3.250	10.661	-9999.0	-9999.0	-9999.0	-9991.0	-9999.0	1.780	10.0
3.350	10.991	57.9	42.0	-0.24	1.457	161.2	-9999.0	9999.0
3.450	11.319	48.7	38.0	-0.24	1.194	136.0	2.135	10.0
3.550	11.647	-9999.0	-9999.0	-9999.0	-9993.0	-9999.0	0.734	5.1
3.650	11.975	39.2	38.0	-7.14	1.381	108.0	-9999.0	-9999.0
3.750	12.303	46.2	40.0	-0.21	2.397	128.4	2.007	10.0
3.850	12.631	51.9	40.0	-0.21	2.745	138.4	-9999.0	-9999.0
3.950	12.959	51.9	36.0	0.15	9999.0	9999.0	1.656	10.0
4.050	13.287	9999.0	9999.0	-9999.0	9999.0	9999.0	0.929	2.0
4.150	13.615	30.0	32.0	0.00	-9999.0	-9999.0	0.776	4.5
4.250	13.943	29.0	32.0	-0.24	-9999.0	-9999.0	1.694	6.4
4.350	14.271	36.2	38.0	-0.14	1.561	111.8	2.034	10.0
4.450	14.600	34.0	36.0	-0.19	1.591	112.8	2.044	10.0
4.550	14.928	44.6	38.0	-0.25	1.825	116.4	2.013	10.0
4.650	15.256	51.5	40.0	-0.27	2.435	129.4	-9999.0	-9999.0
4.750	15.584	51.5	40.0	-0.21	2.450	121.4	-9999.0	-9999.0
4.850	15.912	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.229	10.0
4.950	16.240	46.8	38.0	-0.24	1.653	143.1	1.875	10.0
5.050	16.568	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	4.216	10.0
5.150	16.896	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.582	10.0
5.250	17.224	42.6	38.0	-0.18	2.255	139.5	2.749	10.0
5.350	17.552	35.5	34.0	-0.17	1.602	126.4	2.271	10.0
5.450	17.880	31.8	34.0	-0.10	-9999.0	-9999.0	1.772	10.0
5.550	18.208	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.737	2.7
5.650	18.537	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.282	5.0
5.750	18.865	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.039	4.7
5.850	19.193	51.6	40.0	-0.13	2.524	153.4	-9999.0	-9999.0
5.950	19.521	30.6	34.0	-0.07	-9999.0	-9999.0	1.663	6.3
6.050	19.849	30.0	30.0	0.02	-9999.0	-9999.0	0.781	2.1
6.150	20.177	30.0	30.0	-0.06	-9999.0	-9999.0	1.818	6.1
6.250	20.505	36.8	36.0	-0.03	2.450	145.5	-9999.0	-9999.0
6.350	20.833	30.0	34.0	-0.16	-9999.0	-9999.0	1.859	9.1
6.450	21.161	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.248	4.9
6.550	21.489	51.0	40.0	-0.16	2.795	162.6	-9999.0	-9999.0
6.650	21.817	33.9	34.0	-0.15	-9999.0	-9999.0	2.081	10.0
6.750	22.145	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.386	5.7
6.850	22.473	47.5	38.0	-0.20	3.056	171.0	1.667	10.0
6.750	22.801	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.463	10.0
7.050	23.130	31.8	36.0	-0.11	3.503	134.0	2.255	10.0
7.150	23.458	30.0	34.0	-0.17	9999.0	9999.0	1.734	7.7
7.250	23.786	35.2	36.0	-0.09	3.756	138.9	-9999.0	-9999.0
7.350	24.114	30.4	36.0	-0.15	2.696	181.5	9999.0	9999.0
7.450	24.442	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.158	10.0
7.550	24.770	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.642	6.9
7.650	25.098	31.0	34.0	-0.13	-9999.0	-9999.0	2.726	10.0
7.750	25.426	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.825	7.5
7.850	25.754	37.9	34.0	-5.14	9999.0	9999.0	2.245	10.0
7.950	26.082	35.7	36.0	0.16	1991.0	-9999.0	2.482	10.0
8.050	26.410	-9999.0	-9999.0	-9999.0	-9993.0	-9999.0	2.832	9.1
8.150	26.739	9999.0	-9999.0	-9999.0	-9993.0	-9999.0	1.664	6.5
8.250	27.067	9999.0	-9999.0	-9999.0	-9993.0	-9999.0	1.238	4.4
8.350	27.395	9999.0	-9999.0	-9999.0	-9993.0	-9999.0	1.566	5.8
8.450	27.723	34.1	34.0	-0.16	-9993.0	-9999.0	2.582	10.0
8.550	28.051	41.1	38.0	-0.19	2.312	169.5	3.307	10.0
8.650	28.379	-9993.0	-9999.0	9999.0	9991.0	9999.0	1.935	6.5
8.750	28.707	30.0	30.0	0.03	9991.0	9999.0	0.864	2.3
8.850	29.035	30.0	30.0	0.01	-9991.0	-9999.0	1.020	3.0
8.950	29.363	30.0	30.0	-0.01	-9991.0	-9999.0	1.515	5.2
9.050	29.691	36.7	36.0	-0.13	3.206	147.4	2.468	10.0
9.150	30.019	45.6	38.0	-0.15	3.165	161.2	3.077	10.0

Run No: 05 0108 1256 9500
CTI File: 010703.DAT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Dz (ft)	Col-31 Phi (deg)	Col-32 Shale Por	Col-33 Sw/qt	Col-34 Young2 (psf)	Col-35 SU (lbf)	Col-36 OCR
9.250	30.347	35.0	36.0	-0.14	3.755	191.4	2.471	10.0
9.350	30.675	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.743	6.6
9.450	31.004	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.535	10.0
9.550	31.332	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.455	17.0
9.650	31.660	25.0	36.0	0.18	.0969.0	9905.0	2.691	17.0
9.750	31.988	46.7	25.0	0.18	3.133	182.6	-9999.7	-9999.0
9.850	32.316	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.563	10.0
9.950	32.644	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.282	5.5
10.050	32.972	36.7	35.0	-0.17	-9999.0	-9999.0	2.727	10.0
10.150	33.300	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.312	5.0
10.250	33.628	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.827	5.1
10.350	33.956	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.491	7.3
10.450	34.284	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.671	6.8
10.550	34.612	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.262	8.2
10.650	34.941	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.672	6.7
10.750	35.269	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.463	7.7
10.850	35.597	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.015	5.9
10.950	35.925	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.862	5.6
11.050	36.253	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.196	7.6
11.150	36.581	40.0	31.0	-0.18	3.957	196.3	3.168	10.0
11.250	36.909	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.486	9.1
11.350	37.237	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.819	5.6
11.450	37.566	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.720	5.1
11.550	37.894	16.4	34.0	-0.17	-9999.0	-9999.0	3.799	10.0
11.650	38.222	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.788	5.3
11.750	38.550	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.592	4.9
11.850	38.878	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.571	4.8
11.950	39.206	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.104	6.6
12.050	39.534	53.5	38.0	-0.14	2.824	230.0	-9999.0	-9999.0
12.150	39.862	12.5	36.0	-0.17	5.421	290.5	3.655	10.0
12.250	40.190	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.735	5.2
12.350	40.519	30.0	32.0	-0.06	-9999.0	-9999.0	-9999.0	-9999.0
12.450	40.845	30.0	34.0	0.02	-9999.0	-9999.0	9999.0	9999.0
12.550	41.174	34.2	34.0	-0.05	8.725	266.5	-9999.0	-9999.0
12.650	41.502	34.7	34.0	-0.05	1.885	186.9	-9999.0	-9999.0
12.750	41.830	30.0	32.0	-0.05	-9999.0	-9999.0	-9999.0	-9999.0
12.850	42.158	33.0	34.0	-0.05	3.359	167.1	-9999.0	-9999.0
12.950	42.486	44.2	34.0	-0.05	1.329	166.4	-9999.0	-9999.0
13.050	42.814	38.2	36.0	-0.05	1.697	180.7	-9999.0	-9999.0
13.150	43.141	47.6	36.0	-0.05	1.612	186.4	-9999.0	-9999.0
13.250	43.471	30.0	37.0	-0.01	-9999.0	-9999.0	1.365	3.7
13.350	43.799	30.0	38.0	0.07	-9999.0	-9999.0	0.760	1.5
13.450	44.127	30.0	38.0	0.09	-9999.0	-9999.0	0.881	1.7
13.550	44.455	30.0	38.0	0.11	-9999.0	-9999.0	0.860	1.7
13.650	44.783	30.0	38.0	0.15	-9999.0	9999.0	0.753	1.4
13.750	45.111	30.0	38.0	0.14	-9999.0	9999.0	0.689	1.3
13.850	45.439	30.0	38.0	0.12	-9999.0	-9999.0	0.699	1.3
13.950	45.767	30.0	38.0	0.15	-9999.0	9999.0	0.721	1.3
14.050	46.095	30.0	38.0	0.15	-9999.0	-9999.0	0.726	1.3
14.150	46.423	30.0	38.0	0.11	-9999.0	-9999.0	0.919	1.3
14.250	46.751	30.0	38.0	0.16	-9999.0	-9999.0	0.705	1.3
14.350	47.079	30.0	38.0	0.15	-9999.0	-9999.0	0.702	1.3
14.450	47.408	30.0	38.0	0.14	9999.0	9999.0	0.753	1.4
14.550	47.736	30.0	38.0	0.14	9999.0	9999.0	0.726	1.3
14.650	48.064	30.0	38.0	0.13	-9999.0	-9999.0	0.845	1.6
14.750	48.392	30.0	38.0	0.11	-9999.0	-9999.0	0.825	1.5
14.850	48.720	30.0	38.0	0.15	-9999.0	-9999.0	0.704	1.3
14.950	49.048	30.0	38.0	0.15	-9999.0	-9999.0	0.743	1.3
15.050	49.376	30.0	38.0	0.15	-9999.0	-9999.0	0.746	1.3
15.150	49.704	30.0	38.0	0.15	-9999.0	-9999.0	0.741	1.3

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CPT File 721CP01 COR

Col 01 Depth (m)	Col 02 Depth (ft)	Col 03 Qt (%)	Col 04 Phi (deg)	Col 05 State Bar	Col 06 Ic/qc	Col 07 SoilBE	Col 08 Sv (psf)	Col 09 OCR
15.250	50.032	30.0	35.0	0.16	-9999.0	-9999.0	9.729	1.5
15.300	50.360	30.0	35.0	0.14	-9999.0	-9999.0	9.753	1.5
15.450	50.688	30.0	35.0	0.14	-9999.0	-9999.0	9.954	1.4
15.500	51.016	30.0	35.0	0.12	-9999.0	-9999.0	9.981	1.3
15.650	51.345	30.0	35.0	0.13	-9999.0	-9999.0	9.815	1.4
15.700	51.673	30.0	35.0	0.12	-9999.0	-9999.0	9.592	1.3
15.850	52.001	30.0	35.0	0.10	-9999.0	-9999.0	9.875	1.5
15.900	52.329	30.0	35.0	0.11	-9999.0	-9999.0	9999.0	9999.0
16.050	52.657	30.0	35.0	0.10	-9999.0	-9999.0	9.949	1.6
16.100	52.985	30.0	35.0	0.10	-9999.0	-9999.0	9.945	1.6
16.250	53.313	30.0	35.0	0.10	-9999.0	-9999.0	9.889	1.5
16.300	53.641	30.0	35.0	0.11	-9999.0	-9999.0	9.854	1.4
16.450	53.969	30.0	35.0	0.13	-9999.0	-9999.0	9.924	1.3
16.500	54.297	30.0	35.0	0.12	-9999.0	-9999.0	9.966	1.3
16.650	54.625	30.0	35.0	0.12	-9999.0	-9999.0	9.926	1.5
16.700	54.954	30.0	35.0	0.11	-9999.0	-9999.0	9.886	1.4
16.850	55.282	30.0	35.0	0.12	-9999.0	-9999.0	9.838	1.4
16.900	55.610	30.0	35.0	0.10	-9999.0	-9999.0	9.866	1.4
17.050	55.938	30.0	35.0	0.12	-9999.0	-9999.0	9.905	1.5
17.100	56.266	30.0	35.0	0.16	-9999.0	-9999.0	-9999.0	-9999.0
17.250	56.594	30.0	35.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
17.300	56.922	30.0	35.0	0.20	-9999.0	-9999.0	-9999.0	-9999.0
17.450	57.250	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
17.500	57.578	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
17.650	57.906	30.0	35.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
17.700	58.234	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
17.850	58.562	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
17.900	58.890	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.050	59.218	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.101	59.547	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.250	59.875	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.350	60.203	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.450	60.531	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.550	60.859	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.650	61.187	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.750	61.515	30.0	35.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
18.851	61.844	30.0	35.0	0.19	-9999.0	9999.0	9999.0	-9999.0
18.950	62.171	30.0	35.0	0.21	-9999.0	9999.0	9999.0	9999.0
19.050	62.499	30.0	35.0	0.21	9999.0	9999.0	9999.0	9999.0
19.150	62.827	30.0	35.0	0.21	9999.0	9999.0	9999.0	9999.0
19.250	63.155	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
19.350	63.483	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
19.450	63.812	30.0	35.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
19.550	64.140	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
19.650	64.468	30.0	35.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
19.750	64.796	30.0	35.0	0.20	-9999.0	-9999.0	-9999.0	-9999.0
19.851	65.124	30.0	35.0	0.22	-9999.0	9999.0	-9999.0	9999.0
19.950	65.452	30.0	35.0	0.24	9999.0	9999.0	9999.0	9999.0
20.050	65.780	30.0	35.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
20.150	66.109	30.0	35.0	0.18	-9999.0	-9999.0	-9999.0	-9999.0
20.250	66.437	30.0	35.0	0.19	-9999.0	-9999.0	-9999.0	-9999.0
20.350	66.765	30.0	35.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
20.450	67.093	30.0	35.0	0.19	-9999.0	-9999.0	-9999.0	-9999.0
20.550	67.421	30.0	35.0	0.17	-9999.0	-9999.0	-9999.0	-9999.0
20.650	67.749	30.0	35.0	0.03	9999.0	-9999.0	9999.0	-9999.0
20.750	68.077	30.0	35.0	0.03	-9999.0	-9999.0	-9999.0	-9999.0
20.850	68.405	40.7	34.0	0.02	3.727	234.6	-9999.0	-9999.0
20.950	68.733	56.5	33.0	-0.02	2.857	312.5	-9999.0	-9999.0
21.050	69.062	48.1	34.0	-0.02	3.730	235.6	9999.0	9999.0
21.150	69.390	35.9	34.0	-0.06	4.015	215.5	-9999.0	9999.0

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CPT File: 7010P03.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Qc (MPa)	Col-31 Fs (kPa)	Col-32 Rate Per	Col-33 Ic (-)	Col-34 Soil Type	Col-35 Su (kPa)	Col-36 OCR
21.250	69.717	51.6	38.0	-0.09	3.100	238.5	-9999.0	-9999.0
21.300	69.865	52.7	39.0	0.11	3.040	254.8	-9999.0	-9999.0
21.450	70.373	51.4	38.0	0.14	2.701	242.8	-9999.0	-9999.0
21.500	70.702	51.3	36.0	-0.15	3.176	241.1	-9999.0	-9999.0
21.650	71.029	45.1	36.0	-0.11	3.475	259.6	-9999.0	-9999.0
21.700	71.317	47.1	36.0	-0.11	3.158	260.8	-9999.0	-9999.0
21.850	71.635	44.6	36.0	-0.13	3.521	258.3	-9999.0	-9999.0
21.900	72.014	49.5	36.0	-0.15	3.227	262.9	-9999.1	-9999.0
22.050	72.342	48.5	36.0	-0.16	3.404	268.5	-9999.0	-9999.0
22.100	72.670	41.5	41.0	-0.19	2.905	198.3	-9999.0	-9999.0
22.250	72.998	51.6	38.0	-0.13	2.670	268.9	-9999.0	-9999.0
22.300	73.326	46.2	38.0	-0.11	3.175	262.2	-9999.0	-9999.0
22.450	73.654	46.4	38.0	-0.11	-9999.0	-9999.0	-9999.0	-9999.0
22.500	73.982	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.527	10.0
22.650	74.310	60.2	38.0	-0.10	2.732	361.9	-9999.0	-9999.0
22.700	74.639	50.9	38.0	-0.20	3.169	265.9	5.935	10.5
22.850	74.964	49.9	40.0	-0.17	3.476	419.1	-9999.0	-9999.0
22.900	75.294	54.4	42.0	-0.21	3.239	468.6	-9999.0	-9999.0
23.050	75.622	72.0	48.0	-0.23	2.951	463.7	-9999.0	-9999.0
23.100	75.951	70.2	48.0	-0.18	2.815	444.9	-9999.0	-9999.0
23.250	76.279	57.7	38.2	-0.21	2.870	336.3	-9999.0	-9999.0
23.300	76.607	44.3	36.0	-0.50	-9999.0	-9999.0	-9999.0	-9999.0
23.450	76.935	61.9	38.0	-0.32	4.010	391.5	-9999.0	-9999.0
23.500	77.263	62.7	36.0	-0.15	3.116	309.3	-9999.0	-9999.0
23.650	77.591	74.4	34.0	-0.15	-9999.0	-9999.0	1.037	5.8
23.700	77.919	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	7.756	6.1
23.850	78.247	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.421	4.4
23.900	78.574	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.496	4.7
24.050	78.903	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.540	6.5
24.100	79.231	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.189	6.6
24.250	79.559	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.851	6.9
24.300	79.887	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.129	5.5
24.450	80.215	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.231	5.6
24.500	80.544	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.407	4.7
24.650	80.872	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.421	4.1
24.700	81.200	48.5	36.0	-0.50	4.293	330.8	-9999.0	-9999.0
24.850	81.528	55.5	38.0	-0.32	3.905	429.9	-9999.0	-9999.0
24.900	81.856	41.5	36.0	-1.10	-9999.0	-9999.0	-9999.0	-9999.0
25.050	82.184	44.6	34.0	-1.84	-9999.0	-9999.0	-9999.0	-9999.0
25.100	82.513	47.7	34.0	-1.30	-9999.0	-9999.0	-9999.0	-9999.0
25.250	82.841	43.7	34.0	0.15	9999.0	-9999.0	9999.0	9999.0
25.300	83.169	41.0	34.0	1.35	-9999.0	-9999.0	9999.0	9999.0
25.450	83.497	35.2	34.0	-2.21	-9999.0	-9999.0	-9999.0	-9999.0
25.500	83.826	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.581	1.9
25.650	84.154	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.316	2.7
25.700	84.482	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.572	3.8
25.850	84.810	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.901	4.5
25.900	85.139	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.761	4.2
26.050	85.467	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.360	3.5
26.100	85.795	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.291	3.2
26.250	86.123	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.549	1.6
26.300	86.451	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.573	1.7
26.450	86.779	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.705	4.0
26.500	87.108	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.990	4.6
26.650	87.436	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.911	4.4
26.700	87.764	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.415	3.3
26.850	88.092	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.305	2.6
26.900	88.421	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.812	2.2
27.050	88.749	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.811	2.2
27.100	89.077	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.950	2.4

Run No. 01-0306-1758-5603
CPT File 7135F93.CSR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Dr (%)	Col-11 Phi (deg)	Col-12 Sigma Par	Col-13 Es/qt	Col-14 YoungE (kaf)	Col-15 Su (kaf)	Col-16 OCR
27.250	89.402	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.914	2.1
27.350	89.730	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.791	2.1
27.450	90.058	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.814	2.2
27.550	90.386	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.795	2.1
27.650	90.714	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.671	2.0
27.750	91.042	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.675	2.0
27.850	91.370	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.627	2.0
27.950	91.698	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	2.4
28.050	92.026	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.922	2.3
28.150	92.355	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.671	1.9
28.250	92.683	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.644	1.7
28.350	93.011	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.475	1.6
28.450	93.339	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.477	1.6
28.550	93.667	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.907	2.2
28.650	93.995	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.935	2.1
28.750	94.323	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.704	1.9
28.850	94.651	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.434	1.6
28.950	94.979	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.474	1.5
29.050	95.307	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.578	1.7
29.150	95.635	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.355	1.4
29.250	95.963	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.169	1.2
29.350	96.291	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.056	1.1
29.450	96.620	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.019	1.1
29.550	96.948	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.062	1.1
29.650	97.276	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.152	1.2
29.750	97.604	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.152	1.2
29.850	97.932	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.299	1.4
29.950	98.260	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.227	1.3
30.050	98.588	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.429	1.6
30.150	98.916	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.520	1.6
30.250	99.244	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.520	1.6
30.350	99.572	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.591	1.7
30.450	99.900	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.711	1.9
30.550	100.228	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.937	2.2
30.650	100.557	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.903	2.1
30.750	100.885	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.760	1.9
30.850	101.213	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.649	1.7
30.950	101.541	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.751	1.9
31.050	101.869	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.807	1.9
31.150	102.197	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.679	2.0
31.250	102.525	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.221	2.5
31.350	102.853	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.629	3.2
31.450	103.181	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.434	2.9
31.550	103.509	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.059	2.5
31.650	103.837	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.141	2.6
31.750	104.165	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.295	2.8
31.850	104.493	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.048	2.5
31.950	104.822	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.038	2.4
32.050	105.150	67.5	16.0	-0.20	-9999.0	-9999.0	6.911	10.0
32.150	105.478	57.4	38.0	-0.18	3.020	404.3	-9999.0	-9999.0
32.250	105.806	61.4	39.7	-0.20	2.832	469.8	-9999.0	-9999.0
32.350	106.134	70.2	40.0	0.26	2.537	526.1	-9999.0	-9999.0
32.450	106.462	75.5	40.0	0.39	2.310	537.4	-9999.0	-9999.0
32.550	106.790	65.0	40.0	-0.39	2.595	526.5	-9999.0	-9999.0
32.650	107.118	59.7	41.0	-0.23	2.928	427.5	8.328	10.0

CPeT-IT Inc. - CPT Interpretation
Interpretation Output - Release 1.20 Rev. A - Build 5 Format: UTP Imperial
Job No.: 19-121
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT 05 024
Location: Pigeon Point
Cone: 25 TON AD157
CPT Date: 05/07/19
CPT Time: 10:24
CPT File: 7010124.C05
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m) 2.80 [ES]: 3.4
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Su (Nk used 15.00 Su/P' (min) 0.20
Su Method Jamiolkowski - All Sands
State Parameter Ψ: 0.20
Used Unit Weights Assigned to Soil Zones
Ic&Qtn Calculated using qcIn
Ic&Qtn Calculated using qcInCs

Col 01 Depth (m)	Col 02 Depth (ft)	Col 03 Elev (m)	Col 04 Elev (ft)	Col 05 qc (tsf)	Col 06 qt (tsf)	Col 07 fs (tsf)	Col 08 Rf (%)	Col 09 u (psi)	Col 10 SBT (Zone)	Col 11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	12.63	12.63	0.26	2.10	0.10	6	-8993.0
0.100	0.328	-0.100	-0.328	11.75	11.75	0.35	3.01	-0.24	6	4
0.150	0.492	-0.150	-0.492	5.96	5.96	0.36	3.61	0.02	5	8
0.200	0.656	-0.200	-0.656	10.91	10.97	0.42	1.21	0.44	6	4
0.250	0.820	-0.250	-0.820	9.10	9.10	0.40	4.21	0.02	5	6
0.300	0.984	-0.300	-0.984	11.75	11.78	0.24	2.17	-0.39	6	5
0.350	1.148	-0.350	-1.148	7.85	7.86	0.20	2.16	-0.63	6	5
0.400	1.312	-0.400	-1.312	8.95	8.96	0.22	2.42	-0.04	6	5
0.450	1.476	-0.450	-1.476	5.73	5.74	0.21	3.68	-1.15	5	6
0.500	1.640	-0.500	-1.640	9.49	9.49	0.20	2.09	-0.40	6	5
0.550	1.804	-0.550	-1.804	6.49	6.49	0.20	3.09	-0.40	6	5
0.600	1.968	-0.600	-1.968	6.49	6.49	0.20	3.09	-0.40	6	5
0.650	2.133	-0.650	-2.133	7.85	7.86	0.20	2.16	-0.63	6	5
0.700	2.297	-0.700	-2.297	6.49	6.49	0.20	3.09	-0.40	6	5
0.750	2.461	-0.750	-2.461	6.55	6.56	0.22	3.42	-0.04	6	5
0.800	2.625	-0.800	-2.625	5.73	5.74	0.21	3.68	-1.15	5	6
0.850	2.789	-0.850	-2.789	5.73	5.74	0.21	3.68	-1.15	5	6
0.900	2.953	-0.900	-2.953	6.49	6.49	0.20	3.09	-0.40	6	5
0.950	3.117	-0.950	-3.117	6.49	6.49	0.20	3.09	-0.40	6	5
1.000	3.281	-1.000	-3.281	6.49	6.49	0.20	3.09	-0.40	6	5
1.050	3.445	-1.050	-3.445	6.18	6.11	0.19	3.09	-0.39	6	5
1.100	3.609	-1.100	-3.609	5.84	5.85	0.18	3.09	-0.37	6	5
1.150	3.773	-1.150	-3.773	5.84	5.85	0.18	3.09	-0.37	6	5
1.200	3.937	-1.200	-3.937	5.84	5.85	0.18	3.09	-0.37	6	5
1.250	4.101	-1.250	-4.101	5.82	5.83	0.17	2.93	-0.35	6	5
1.300	4.265	-1.300	-4.265	5.82	5.83	0.17	2.93	-0.35	6	5
1.350	4.429	-1.350	-4.429	4.73	4.76	0.15	3.64	-0.36	7	5
1.400	4.593	-1.400	-4.593	4.73	4.76	0.15	3.64	-0.36	7	5
1.450	4.757	-1.450	-4.757	3.70	3.68	0.15	4.26	-0.49	7	5
1.500	4.921	-1.500	-4.921	4.09	4.12	0.19	4.62	-0.31	7	5
1.550	5.085	-1.550	-5.085	4.09	4.12	0.19	4.62	-0.31	7	5
1.600	5.249	-1.600	-5.249	9.58	9.62	0.25	2.56	-0.50	7	6
1.650	5.413	-1.650	-5.413	9.01	9.05	0.18	1.94	-0.52	7	6
1.700	5.577	-1.700	-5.577	9.01	9.05	0.18	1.94	-0.52	7	6
1.750	5.741	-1.750	-5.741	9.01	9.05	0.18	1.94	-0.52	7	6
1.800	5.905	-1.800	-5.905	2.63	2.74	0.15	4.94	-0.77	7	3
1.850	6.069	-1.850	-6.069	2.63	2.74	0.15	4.94	-0.77	7	3
1.900	6.233	-1.900	-6.233	2.97	3.03	0.11	3.69	-0.77	7	4
1.950	6.398	-1.950	-6.398	2.97	3.03	0.11	3.69	-0.77	7	4
2.000	6.562	-2.000	-6.562	3.63	3.69	0.12	3.09	-0.76	7	5
2.050	6.726	-2.050	-6.726	3.63	3.69	0.12	3.09	-0.76	7	5
2.100	6.890	-2.100	-6.890	3.63	3.69	0.12	3.09	-0.76	7	5
2.150	7.054	-2.150	-7.054	3.04	3.05	0.10	3.26	-0.59	7	5
2.200	7.218	-2.200	-7.218	3.04	3.05	0.10	3.26	-0.59	7	5
2.250	7.382	-2.250	-7.382	3.04	3.05	0.10	3.26	-0.59	7	5
2.300	7.546	-2.300	-7.546	3.04	3.05	0.10	3.26	-0.59	7	5
2.350	7.710	-2.350	-7.710	2.96	2.94	0.11	3.64	-0.59	7	5
2.400	7.874	-2.400	-7.874	2.96	2.94	0.11	3.64	-0.59	7	5
2.450	8.038	-2.450	-8.038	5.53	5.67	0.15	2.69	-0.90	7	5
2.500	8.202	-2.500	-8.202	8.11	8.14	0.25	3.04	-0.69	8	5
2.550	8.366	-2.550	-8.366	8.47	8.46	0.22	2.67	-0.68	8	6
2.600	8.530	-2.600	-8.530	12.71	12.73	0.32	2.49	-0.40	8	6
2.650	8.694	-2.650	-8.694	12.12	12.13	0.33	2.69	-0.55	8	6
2.700	8.858	-2.700	-8.858	48.12	48.13	1.03	2.12	-0.44	8	6
2.750	9.022	-2.750	-9.022	60.35	60.36	1.11	2.08	-2.26	8	6
2.800	9.186	-2.800	-9.186	44.83	44.86	1.15	2.61	-0.71	8	6

Run No 05-0306-1255-5502
CPT File 7210714.CGR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 RI (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
3.150	10.161	-3.250	-10.643	24.37	24.37	1.28	5.25	-0.65	4	4
3.250	10.791	-3.350	-10.991	97.04	97.00	1.83	1.39	-0.95	7	6
3.450	11.119	-3.450	-11.319	132.14	132.14	2.21	1.67	0.90	6	6
3.550	11.647	-3.550	-11.647	105.75	109.73	2.19	1.59	5.57	7	6
3.650	11.975	-3.650	-11.975	95.71	95.73	2.96	3.09	0.61	6	5
3.750	12.303	-3.750	-12.303	121.61	121.61	3.60	3.12	11.31	6	5
3.850	12.631	-3.850	-12.631	227.11	227.71	1.95	2.77	62.27	6	5
3.950	12.959	-3.950	-12.959	201.17	204.14	2.01	2.45	1.41	7	5
4.050	13.287	-4.050	-13.287	47.75	47.75	1.70	3.56	-0.92	5	4
4.150	13.615	-4.150	-13.615	40.41	40.40	1.37	3.40	-0.91	5	4
4.250	13.943	-4.250	-13.943	128.85	128.03	1.67	1.45	-0.17	8	6
4.350	14.271	-4.350	-14.271	58.89	58.80	2.03	3.58	-0.17	5	5
4.450	14.600	-4.450	-14.600	81.85	81.85	1.46	4.11	1.87	5	5
4.550	14.928	-4.550	-14.928	125.86	123.90	3.91	3.17	5.77	6	5
4.650	15.256	-4.650	-15.256	130.46	130.45	3.57	2.74	0.60	7	5
4.750	15.584	-4.750	-15.584	130.41	130.42	4.66	3.10	1.85	6	5
4.850	15.912	-4.850	-15.912	71.61	71.62	4.08	5.70	2.70	11	5
4.950	16.240	-4.950	-16.240	105.15	105.17	6.67	6.34	1.85	11	5
5.050	16.568	-5.050	-16.568	250.23	250.26	2.59	1.03	7.74	9	5
5.150	16.895	-5.150	-16.896	634.22	634.21	0.54	0.08	1.53	10	-9999.0

Interpretation Output - Release 1.22 Rev. A - Build 5 Format: NLP Imperial

Job No: 05-0308-1256-5502
Job Ref: 05-101
Client: NewSystems Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-004
Location: Pigeon Point
Cone: 20 TON ADIOT
CPT Date: 05/07/30
CPT Time: 10:24
CPT File: 0510514.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 2.50 (ft): 8.4
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Su Not Used: 15.00 Su/P' Ratio: 0.20
Su Method: Zaritskavski All Cones
Nkt Parameter: 15.00
Hand Unit Weights Assigned to Soil Zones
Nkdia Calculated using Qtn
Nkbqa Calculated using Qtnbq

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 SBT-BQ (Zone)	Col-11 SBT-BQ (Zone)	Col-14 Perm-K (m/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 Qtn (n/a)
0.150	1.164	6	-9999.0	1.0E-04	124.6	0.019	0.000	1.029	2.00	4.0
0.150	0.492	6	7	1.0E-04	124.6	0.038	0.000	1.038	2.00	5.6
0.250	0.820	6	7	1.0E-04	121.4	0.047	0.000	1.047	2.00	4.5
0.350	1.148	6	7	1.0E-04	124.6	0.065	0.000	1.065	2.00	6.1
0.450	1.476	6	6	1.0E-04	121.4	0.084	0.000	1.084	2.00	4.9
0.550	1.804	6	6	1.0E-04	124.6	0.102	0.000	1.102	2.00	5.4
0.650	2.133	6	6	1.0E-04	124.6	0.121	0.000	1.121	2.00	5.0
0.750	2.461	6	6	1.0E-04	124.6	0.140	0.000	1.140	2.00	4.8
0.850	2.789	6	6	1.0E-04	121.4	0.158	0.000	1.158	2.00	5.5
0.950	3.117	6	6	1.0E-04	121.4	0.177	0.000	1.177	2.00	5.2
1.050	3.445	9999.1	6	1.0E-04	121.4	0.195	0.000	1.195	2.00	5.6
1.150	3.773	9999.0	6	1.0E-04	121.4	0.214	0.000	1.214	2.00	5.0
1.250	4.101	6	6	1.0E-04	121.4	0.232	0.000	1.232	2.00	5.4
1.350	4.429	6	6	1.0E-04	121.4	0.250	0.000	1.250	2.00	4.5
1.450	4.757	3	4	1.0E-04	121.4	0.268	0.000	1.268	1.93	3.6
1.550	5.086	6	6	1.0E-04	121.4	0.286	0.000	1.286	1.97	3.9
1.650	5.414	6	6	1.0E-04	124.6	0.305	0.000	1.305	1.91	4.1
1.750	5.742	6	6	1.0E-04	121.4	0.323	0.000	1.323	1.86	4.6
1.850	6.070	3	5	1.0E-04	79.6	0.339	0.000	1.339	1.82	2.6
1.950	6.398	3	5	1.0E-04	121.4	0.356	0.000	1.356	1.68	2.7
2.050	6.726	3	6	1.0E-04	121.4	0.375	0.000	1.372	1.64	3.7
2.150	7.054	3	5	1.0E-04	121.4	0.391	0.000	1.391	1.60	1.0
2.250	7.382	3	5	1.0E-04	121.4	0.410	0.000	1.410	1.57	3.1
2.350	7.710	3	5	1.0E-04	121.4	0.428	0.000	1.426	1.53	2.5
2.450	8.038	6	6	1.0E-04	121.4	0.446	0.000	1.446	1.50	5.6
2.550	8.367	5	5	1.0E-04	124.6	2.465	0.000	2.465	1.47	5.2
2.650	8.694	5	5	1.0E-04	124.6	2.483	0.000	2.483	1.44	5.4
2.750	9.022	6	5	1.0E-04	124.6	2.502	0.000	2.502	1.41	6.1
2.850	9.350	7	6	1.0E-04	124.6	2.521	0.000	2.521	1.38	12.4
2.950	9.678	8	7	1.0E-04	124.6	2.540	0.000	2.540	1.37	29.5
3.050	10.006	8	7	1.0E-04	124.6	2.559	0.000	2.559	1.36	26.2
3.150	10.336	8	7	1.0E-04	124.6	2.577	0.000	2.577	1.35	29.1

Aug. No: 06-01ud-1219-5582
GPT File: 0:\CPT\4.GPJ

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 SBT-PI (Zone)	Col-04 SBT-PIn (Zone)	Col-14 Perm-K (cm/s)	Col-15 Unit Wt (pcf)	Col-16 Σ Stress (tsf)	Col-17 U Stress (tsf)	Col-18 Σ Stress (tsf)	Col-19 Fn	Col-20 Ksb (p/ft)
3.250	10.663	7	6	5.0E-04	111.4	0.596	0.060	0.536	1.04	23.5
3.300	10.831	9	6	5.0E-04	111.7	0.615	0.062	0.554	1.03	21.8
3.400	11.155	9	7	5.0E-04	122.5	0.634	0.063	0.571	1.02	21.5
3.450	11.319	9	7	5.0E-04	117.7	0.654	0.071	0.583	1.01	36.0
3.500	11.484	9	6	5.0E-04	114.6	0.673	0.081	0.592	1.01	36.7
3.750	12.303	9	7	5.0E-04	114.6	0.692	0.092	0.600	1.00	44.6
3.800	12.631	9	7	5.0E-04	120.9	0.711	0.102	0.609	1.00	54.0
3.900	12.959	9	6	5.0E-04	117.1	0.731	0.112	0.619	1.00	51.9
4.000	13.287	6	6	5.0E-04	114.6	0.750	0.122	0.627	1.00	22.9
4.100	13.615	6	6	5.0E-04	114.6	0.769	0.133	0.636	1.00	35.0
4.200	13.943	8	7	5.0E-04	120.9	0.788	0.143	0.645	1.00	32.8
4.300	14.271	6	6	5.0E-04	114.1	0.807	0.153	0.654	1.00	28.0
4.400	14.600	8	6	5.0E-04	114.1	0.825	0.163	0.661	1.00	40.0
4.500	14.928	9	7	5.0E-04	114.6	0.845	0.174	0.671	1.00	48.2
4.550	15.092	9	7	5.0E-04	117.7	0.864	0.184	0.680	1.00	41.7
4.750	15.584	9	7	5.0E-04	114.6	0.883	0.194	0.689	1.00	37.6
4.850	15.911	8	6	5.0E-04	118.5	0.903	0.204	0.699	1.00	46.6
4.950	16.240	9	6	5.0E-04	118.5	0.924	0.214	0.710	1.00	170.7
5.150	16.568	10	7	5.0E-04	124.3	0.945	0.225	0.721	1.00	47.9
5.150	16.896	10	7	5.0E-04	127.3	0.966	0.236	0.731	1.00	121.2

```
CPeT-IT Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev. A   Build 5  Format: NGP Imperial
Run No    05-0004-1048-6462
Job No    05-771
Client:   GeoSyntec Consultants
Project:  Pigeon Point Landfill - Wilmington, Delaware
Site:     CPT-05-004
Location  Pigeon Point
Cone:      20 TON  AD157
CPT Date: 05/07/05
CPT Time: 10:26
CPT File: 721C004.CCR
Northing  (m):        0.000000
Easting   (m):        0.000000
Elevation (m)         0.000000
------------------------------ ------------------------------ -     -   -   - -------- ---------
Water Table (m):             1.45       (ft):     4.8
Unit Weight of Water (default):     62.60 pcf
Averaging Increment (m):     0.10
Zn Not Used:     15.00     Zn/Pa (min)    0.10
Dr  Method                Jamiolkowski - All Sands
State Parameter M:          1.70
Used Unit Weights Assigned to Soil Zones
Nb61c Calculated using qcln
Nb61cs Calculated using qclncs
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Col-01 Depth (m)	Col-02 Depth (ft)	Col-20 Nb[61] (tsf)	Col-21 Nb[61]cs (tsf)	Col-22 Nb/Pa (tsf/tsf)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Soil Behavior Type
0.010	0.164	13.1	-9919.0	-9999.0	1171.61	2.11	0.00	-9999.0	-9999.0	0
0.150	0.492	13.1	-9919.0	-9999.0	615.69	2.02	0.00	-9999.0	-9999.0	0
0.250	0.820	19.1	-9919.0	-9999.0	712.25	3.61	0.00	-9999.0	-9999.1	0
0.350	1.148	16.4	-9919.0	-9999.0	397.79	1.22	0.01	-9999.0	-9999.1	0
0.450	1.476	17.9	-9919.0	-9999.0	369.75	4.80	0.01	-9999.0	-9999.1	0
0.550	1.804	13.3	3.7	5.2	114.34	2.11	0.00	2.47	29.3	5
0.650	2.133	10.0	1.4	5.6	63.87	2.53	-0.01	2.72	42.7	5
0.750	2.461	8.6	0.2	3.9	43.07	2.44	-0.01	2.68	39.6	5
0.850	2.789	11.0	2.1	6.7	35.34	3.69	-0.01	2.43	31.4	4
0.950	3.117	10.4	1.5	6.1	29.60	3.71	-0.00	2.47	33.4	4
1.050	3.445	7.9	1.3	6.3	22.09	4.61	-0.01	2.87	50.2	4
1.150	3.773	9.3	1.5	7.0	23.24	4.16	-0.00	2.79	45.6	4
1.250	4.101	10.7	1.7	7.2	23.13	4.04	-0.00	2.75	43.0	4
1.350	4.429	9.0	1.4	6.6	17.82	4.03	-0.00	2.87	50.3	4
1.450	4.757	5.3	1.2	4.3	12.65	4.52	-0.00	3.02	60.1	3
1.550	5.085	7.4	1.4	4.6	13.43	4.95	0.00	3.03	62.2	3
1.650	5.413	11.1	1.6	4.5	15.09	2.71	0.02	2.16	29.6	4
1.750	5.741	9.5	1.6	4.9	14.41	1.81	0.01	2.00	19.9	4
1.850	6.069	4.5	1.1	3.1	7.29	1.32	0.04	2.35	35.7	3
1.950	6.398	4.9	1.1	2.9	7.32	1.13	0.04	2.36	37.3	3
2.050	6.726	6.1	1.3	3.3	9.42	3.42	0.11	2.85	62.0	3
2.150	7.054	4.7	1.1	2.6	6.39	1.71	0.13	2.39	41.7	3
2.250	7.382	4.5	1.2	2.6	6.46	1.66	0.15	2.47	70.9	3
2.350	7.710	4.9	1.1	2.3	6.43	1.35	0.15	2.32	62.6	3
2.450	8.038	8.0	1.7	3.8	11.15	2.12	0.09	2.96	54.4	4
2.550	8.366	7.1	2.4	5.1	10.72	1.27	0.02	2.64	44.5	4
2.650	8.694	7.8	2.4	5.0	10.49	2.42	-0.01	2.81	46.7	4
2.750	9.022	8.5	2.6	5.7	24.33	2.55	0.01	2.65	37.7	4
2.850	9.350	27.1	7.5	10.6	52.14	1.81	0.01	2.36	24.5	6
2.950	9.678	25.6	10.5	15.1	50.11	3.15	0.02	2.27	21.5	6
3.050	10.006	26.7	14.7	20.5	335.25	7.37	0.02	2.20	18.9	5
3.150	10.334	19.3	10.4	14.3	50.56	7.42	0.01	2.36	24.7	5

Run No: 25-0106-1.58-5162
CPT File: 7210-04.CCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N1(60)Ic (b/ft)	Col-23 N1(60)Ic (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FT (%)	Col-29 InZone (Zone)
2.250	10.661	31.3	6.6	12.1	42.78	6.38	0.00	2.65	10.4	4
2.350	10.991	41.2	18.6	26.6	100.90	1.90	0.00	2.03	13.7	6
2.450	11.319	41.8	25.4	34.3	227.31	1.68	0.00	1.95	16.4	6
2.550	11.147	45.9	22.0	29.5	187.22	2.06	0.00	2.02	11.4	6
2.650	11.975	47.7	-9999.0	-9999.0	160.66	3.11	0.00	-9999.0	-9999.0	0
2.750	12.303	60.1	-9999.0	-9999.0	201.41	3.14	0.00	-9999.0	-9999.0	0
2.850	12.631	69.6	41.8	54.6	372.56	1.74	0.01	1.75	7.7	5
2.950	12.959	41.1	22.0	38.6	172.46	2.47	0.00	2.15	15.5	5
4.050	13.267	28.9	11.6	14.9	74.95	3.62	0.00	2.45	25.5	5
4.150	13.615	24.3	14.0	12.8	62.32	3.46	0.00	2.50	16.6	5
4.250	13.943	38.4	24.6	31.3	199.52	1.46	0.00	1.88	10.0	6
4.350	14.271	34.6	11.9	17.5	88.66	3.58	0.00	2.45	26.4	5
4.450	14.600	49.3	-9999.0	-9999.0	125.10	4.15	0.00	-9999.0	-9999.0	0
4.550	14.928	55.9	-9999.0	-9999.0	144.11	3.21	0.00	-9999.0	-9999.0	0
4.650	15.256	53.5	-9999.0	-9999.0	130.60	2.76	0.00	-9999.0	-9999.0	0
4.750	15.584	69.4	-9999.0	-9999.0	217.08	1.12	0.00	-9999.0	-9999.0	0
4.850	15.912	92.1	-9999.0	-9999.0	101.21	4.71	0.00	-9999.0	-9999.0	0
4.950	16.240	119.6	-9999.0	-9999.0	140.85	6.40	0.00	-9999.0	-9999.0	0
5.050	16.568	56.5	41.2	52.0	346.03	1.04	0.00	1.60	4.3	6
5.150	16.896	115.4	-9999.0	-9999.0	846.41	0.58	0.00	-9999.0	-9999.0	0

Interpretation Output - Rotmann 1.20 Rev. A - Build 5 Format: NLP Imperial

Sub No: 08-0708-1758-5582
Job No: 08 721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-15-08
Location: Pigeon Point
Cone: 20 TSF ASTM
CPT Date: 08/07/08
CPT Time: 10:24
CPT File: 721CP04.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (ft): 2.95 Fill: 0.0
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (ft): 0.10
Su Nkt used: 15.00 Su/P' Incl: 0.20
Dr Method : Jamiolkowski All Sands
State Parameter Ψ: 1.00
Used Unit Weights Assigned to Soil Zones
Middle Calculated using qcln
Middle Calculated using qclnrs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Ic (1)	Col-31 Phi (deg)	Col-32 State Par	Col-33 Ev/qc	Col-34 Young's (tsf)	Col 35 Gs (tsf)	Col 36 OCR
0.060	0.196	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.928	10.0
0.140	0.462	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.782	10.0
0.220	0.729	-9999.0	-9999.0	9999.0	1993.0	9999.0	0.664	10.0
0.300	1.000	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.861	10.0
0.380	1.476	-9999.0	-9999.0	9999.0	3999.0	9999.0	0.614	10.0
0.460	1.804	-9999.0	-9999.0	9999.0	9099.0	9999.0	0.779	10.0
0.540	2.132	-9999.0	-9999.0	9999.0	9099.0	9999.0	0.516	10.0
0.620	2.461	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.582	10.0
0.680	2.789	-9999.0	-9999.0	9999.0	9099.0	-9999.0	0.372	10.0
0.980	3.117	-9999.0	-9999.0	-9999.0	-9099.0	-9999.0	0.261	10.0
1.080	3.445	9999.0	9999.0	-9999.0	-9099.0	-9999.0	0.261	7.3
1.180	3.773	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.350	9.0
1.280	4.101	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.358	8.9
1.380	4.429	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.299	7.9
1.480	4.757	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.306	7.5
1.580	5.085	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.256	7.6
1.680	5.413	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.420	10.0
1.780	5.741	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.315	8.4
1.880	6.069	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.160	4.6
1.980	6.398	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.170	4.7
2.080	6.726	-9999.0	-9999.0	9999.0	9999.0	-9999.0	0.234	6.1
2.180	7.054	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.180	4.6
2.280	7.382	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.160	4.5
2.380	7.710	9999.0	9999.0	9999.0	-9999.0	-9999.0	0.154	4.2
2.480	8.038	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.343	8.3
2.580	8.366	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.512	9.3
2.680	8.694	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.491	9.0
2.780	9.022	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.819	9.7
2.880	9.353	41.6	41.0	-0.20	3.245	101.7	3.520	10.0
2.980	9.675	54.9	43.0	-0.36	2.475	104.4	1.186	10.0
3.080	10.001	46.4	44.0	-0.32	2.929	151.9	4.420	10.0
3.180	10.335	57.3	42.0	-0.29	2.584	120.9	2.953	10.0

Run No. 05-0308-1255-5562
CPT File: 721C104.CPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Dr (%)	Col-11 Phi (deg)	Col-32 State Bar	Col-33 Rs/qt	Col-34 YoungE (tsf)	Col-35 Su (tsf)	Col-36 PCW
3.250	10.663	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.555	10.0
3.350	10.991	74.0	44.0	0.11	2.003	194.4	9999.0	9999.0
3.450	11.319	82.9	45.0	-0.13	1.878	248.2	-9999.0	-9999.0
3.550	11.647	77.1	44.0	-0.13	1.944	213.1	-9999.0	9999.0
3.650	11.975	72.9	44.0	-0.41	2.025	183.8	5.131	10.0
3.750	12.303	75.6	45.0	-0.44	1.911	211.1	6.460	10.0
3.850	12.633	75.0	48.0	-0.38	-9999.0	-9999.0	-9999.0	-9999.0
3.950	12.959	75.3	44.0	-0.36	1.776	210.0	-9999.0	-9999.0
4.050	13.287	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.111	10.0
4.150	13.615	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.442	10.0
4.250	13.941	80.2	48.0	-0.29	1.893	243.9	-9999.0	-9999.0
4.350	14.271	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.660	10.0
4.450	14.600	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.535	10.0
4.550	14.928	79.0	44.0	-0.43	1.911	240.5	6.137	10.0
4.650	15.257	79.8	44.0	0.40	1.896	247.1	9999.0	9999.0
4.750	15.594	81.7	45.0	-0.45	1.886	253.1	9.569	10.0
4.850	15.912	82.2	42.0	-0.70	2.214	164.1	-9999.0	-9999.0
4.950	16.240	73.0	44.0	0.99	2.023	212.7	-9999.0	-9999.0
5.050	16.565	95.0	48.0	0.31	-9999.0	-9999.0	-9999.0	-9999.0
5.150	16.896	95.0	30.0	-0.36	-9999.0	-9999.0	-9999.0	-9999.0

Interpretation Output - Release 1.22 Rev. A - Build 6 Format: DL2 Imperial

Per No: 03-0326-1058-5021
Job No: 03-721
Client: GeoSynTec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-15-004A
Location: Pigeon Point
Cone 20 TON XD157
CPT Date: 10/07/03
CPT Time: 11:04
CPT File 2115CP04A.COR
Sounding (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 3.97 (ft): 13.0
Unit Weight of Water (kN/m3): 62.60 pcf
Averaging Increment (m): 0.15
Sl Fric Used. 15.00 Su/P' (nm) 0.30
Dr Method : Jamiolkowski - All Sands
State Parameter K: 1.20
Used Unit Weights Assigned to Soil Zones
Qtable Calculated using qclr
Qtable Calculated using qcinc

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	6.55	6.55	0.25	3.82	0.61	5	6
0.100	0.492	-0.100	-0.492	10.32	10.32	0.35	3.39	0.91	5	6
0.150	0.820	-0.150	-0.820	15.25	11.24	0.45	3.61	-0.58	6	6
0.200	1.148	-0.200	-1.148	9.49	9.49	0.39	4.07	0.62	5	6
0.250	1.476	-0.250	-1.476	10.89	10.89	0.50	4.55	0.12	5	6
0.300	1.804	-0.300	-1.804	7.61	7.51	0.34	4.51	-0.04	5	6
0.350	2.133	0.650	2.133	5.85	5.58	0.19	3.15	0.79	5	6
0.700	2.461	0.150	2.461	5.86	5.69	0.19	3.15	1.21	5	6
0.850	2.789	-0.200	-2.789	5.60	5.50	0.24	4.26	1.25	5	7
0.900	3.117	-0.350	-3.117	7.96	7.96	0.36	4.53	1.23	5	6
1.050	3.445	-1.050	-3.445	7.14	7.14	0.36	5.09	1.01	5	6
1.100	3.773	-1.150	-3.773	6.13	6.14	0.23	3.67	0.15	5	6
1.200	4.101	-1.250	-4.101	6.49	6.50	0.26	4.01	3.15	5	6
1.350	4.429	-1.350	-4.429	3.69	3.69	0.20	8.15	3.42	4	5
1.450	4.757	-1.450	-4.757	10.61	10.62	0.36	3.38	2.98	6	6
1.550	5.085	-1.550	-5.085	22.94	22.94	0.57	2.52	3.96	6	5
1.650	5.413	-1.650	-5.413	48.58	48.61	0.53	1.18	5.69	7	6
1.750	5.741	-1.750	-5.741	7.15	7.25	0.41	5.56	5.32	5	5
1.850	6.069	-1.850	-6.069	5.94	5.99	0.27	4.55	1.39	5	5
1.950	6.398	-1.950	-6.398	1.56	1.58	0.15	9.04	7.27	1	1
2.000	6.726	-2.000	-6.726	2.18	2.21	0.08	3.43	7.19	3	3
2.100	7.054	-2.100	-7.054	2.55	2.59	0.10	3.88	7.45	3	3
2.250	7.382	-2.250	-7.382	3.45	3.49	0.09	2.58	5.41	3	3
2.350	7.710	-2.350	-7.710	2.56	2.59	0.09	3.28	5.15	3	3
2.450	8.038	2.450	-8.038	3.03	3.07	0.20	6.26	5.38	4	4
2.550	8.366	2.150	-8.366	17.85	17.90	0.16	0.98	9.17	6	5
2.650	8.694	-2.650	-8.694	9.81	9.85	0.16	1.66	8.11	5	6
2.750	9.022	-2.750	-9.022	8.59	8.63	0.16	2.09	9.07	5	6
2.850	9.350	-2.850	-9.350	11.76	11.83	0.29	2.42	5.84	5	6
2.950	9.679	-2.950	-9.679	17.96	18.02	0.47	2.62	6.85	5	6
3.050	10.007	-3.050	-10.007	20.02	20.14	0.39	1.94	3.36	6	5
3.150	10.335	-3.150	-10.335	17.00	21.07	0.72	2.61	1.05	6	5

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
1.250	10.663	-1.250	-10.663	45.29	45.29	1.25	2.55	0.76	6	5
1.350	10.991	-1.350	-10.991	13.67	13.67	0.31	2.24	-0.26	5	4
1.450	11.319	-1.450	-11.319	50.57	26.96	2.07	1.41	-0.49	7	5
1.550	11.647	-1.550	-11.647	64.55	64.59	1.79	4.02	0.78	5	4
1.650	11.975	-1.650	-11.975	55.67	55.67	1.69	3.03	0.04	6	5
1.750	12.303	-1.750	-12.303	20.92	20.93	1.11	5.25	1.80	5	3
1.850	12.631	-1.850	-12.631	24.21	24.22	0.65	2.83	1.07	5	4
1.950	12.959	-1.950	-12.959	28.91	28.92	0.56	1.94	0.76	6	5
2.050	13.287	-2.050	-13.287	29.35	29.36	0.50	2.60	2.45	6	5
2.150	13.615	-2.150	-13.615	57.95	57.96	0.81	1.42	1.42	7	5
2.250	13.943	-2.250	-13.943	57.49	57.50	0.45	0.77	0.02	8	6
2.350	14.271	-2.350	-14.271	26.79	26.97	0.49	1.80	-0.11	6	5
2.450	14.599	-2.450	-14.599	32.20	32.20	0.42	1.31	-0.94	6	7
2.550	14.928	-2.550	-14.928	20.19	20.19	0.36	2.89	-0.26	5	4
2.650	15.256	-2.650	-15.256	29.67	29.67	0.50	3.02	2.23	5	4
2.750	15.584	-2.750	-15.584	41.59	41.59	0.33	1.59	-0.75	6	5
2.850	15.912	-2.850	-15.912	31.40	31.40	0.56	3.05	2.05	5	4
2.950	16.240	-2.950	-16.240	41.27	41.27	1.57	3.80	7.12	5	4
3.050	16.568	-3.050	-16.568	52.56	52.56	1.51	3.64	4.30	5	4
3.150	16.896	-3.150	-16.896	91.57	91.58	1.59	1.74	2.47	7	5
3.250	17.224	-3.250	-17.224	20.76	20.77	2.70	12.58	1.91	0	-9999.0
3.350	17.552	-3.350	-17.552	221.02	221.33	3.69	1.67	1.59	8	6
3.450	17.880	-3.450	-17.880	137.24	136.24	5.10	3.62	2.82	6	4
3.550	18.208	-3.550	-18.208	60.56	60.57	1.31	2.16	1.72	7	5
3.650	18.537	-3.650	-18.537	44.08	44.09	1.00	2.46	2.15	6	5
3.750	18.865	-3.750	-18.865	6.62	6.72	0.39	5.84	4.46	3	3
3.850	19.193	-3.850	-19.193	155.65	158.67	1.14	0.72	-2.16	9	8
3.950	19.521	-3.950	-19.521	46.73	46.78	1.00	2.14	7.58	6	6
4.050	19.849	-4.050	-19.849	18.59	18.62	0.59	3.10	7.55	5	6
4.150	20.177	-4.150	-20.177	8.55	8.67	0.13	1.56	17.60	4	3
4.250	20.505	-4.250	-20.135	5.34	5.05	0.10	1.65	32.82	4	3
4.350	20.833	-4.350	-20.811	7.54	7.65	0.09	1.31	24.16	5	4
4.450	21.161	-4.450	-21.161	7.70	7.82	0.10	1.27	25.22	5	3
4.550	21.489	-4.550	-21.489	7.25	7.15	0.10	1.40	27.59	5	3
4.650	21.817	-4.650	-21.817	6.55	6.66	0.10	1.43	26.19	5	3
4.750	22.145	-4.750	-22.145	5.46	5.60	0.11	1.22	29.72	5	4
4.850	22.473	-4.850	-22.473	6.29	6.44	0.11	1.53	24.22	5	3
4.950	22.802	-4.950	-22.802	7.73	7.93	0.13	1.69	22.22	5	3
5.050	23.130	-5.050	-23.130	5.71	5.83	0.13	2.12	14.04	4	3
5.150	23.458	-5.150	-23.458	7.67	7.64	0.24	1.98	24.57	5	3
5.250	23.786	-5.250	-23.786	7.38	7.56	0.24	1.92	25.01	5	3
5.350	24.114	-5.350	-24.114	7.69	7.80	0.24	1.74	41.15	5	3
5.450	24.442	-5.450	-24.442	7.44	7.74	0.23	1.58	42.77	5	3
5.550	24.770	-5.550	-24.770	8.03	8.07	0.29	3.70	42.65	4	3
5.650	25.098	-5.650	-25.098	14.03	14.15	0.30	2.51	21.37	5	3
5.750	25.426	-5.750	-25.426	10.12	10.19	0.26	2.52	13.25	5	3
5.850	25.754	-5.850	-25.754	12.52	12.59	0.17	1.35	15.85	6	5
5.950	26.082	-5.950	-26.082	14.61	14.68	0.25	2.10	15.67	5	3
6.050	26.410	-6.050	-26.410	46.21	46.31	0.70	1.51	20.93	7	5
6.150	26.739	-6.150	-26.739	56.45	56.56	0.98	1.73	31.40	8	6
6.250	27.067	-6.250	-27.067	117.48	117.54	1.14	1.45	32.71	8	6
6.350	27.395	-6.350	-27.395	75.67	75.72	1.46	1.97	17.45	7	5
6.450	27.723	-6.450	-27.723	24.05	26.14	0.85	3.24	8.85	5	4
6.550	28.051	-6.550	-28.051	13.48	13.53	0.29	2.04	10.46	5	3
6.650	28.379	-6.650	-28.379	12.91	12.96	0.15	1.15	11.46	6	4
6.750	28.707	-6.750	-28.707	14.66	14.71	0.16	1.09	11.13	6	4
6.850	29.035	-6.850	-29.035	13.83	13.89	0.14	1.01	11.69	6	4
6.950	29.363	-6.950	-29.363	13.47	13.53	0.15	1.07	23.23	6	4
7.050	29.691	-7.050	-29.691	13.96	14.02	0.19	1.42	13.13	7	5
7.150	30.019	-7.150	-30.019	50.15	50.21	0.64	1.27	13.44	7	5

Run No [illegible]
CPT File [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col 10 SBT (Zone)	Col 11 SBTn (Zone)
1.250	10.147	-9.250	-10.147	19.01	19.09	0.55	2.51	13.46	6	6
9.100	10.475	-9.100	-10.475	102.21	102.34	0.58	0.57	14.15	6	6
9.450	31.004	-9.450	-31.004	117.41	117.44	0.98	0.84	6.28	6	6
9.350	31.332	-9.350	-31.332	102.97	102.97	0.05	0.53	6.12	6	6
9.450	31.560	-9.450	-31.460	202.01	202.08	0.01	0.51	0.98	6	6
9.750	31.988	-9.750	-31.568	202.42	202.53	0.88	0.44	20.90	8	6
9.350	32.316	-9.550	-32.116	159.35	159.40	0.79	0.45	18.72	7	7
9.350	32.644	-9.550	-32.644	92.25	92.29	1.10	1.15	9.79	8	5
10.150	32.972	-10.150	-32.972	57.45	57.45	1.14	1.99	10.39	7	5
10.150	33.300	-10.150	-33.100	42.00	42.06	2.07	4.91	15.21	4	3
10.250	33.628	-10.250	-33.628	40.72	40.78	2.45	6.15	12.31	3	3
10.150	33.956	-10.150	-33.956	44.17	44.23	2.82	6.35	11.46	3	3
10.450	34.284	-10.450	-34.284	54.81	54.86	2.85	5.29	10.35	3	3
10.650	34.612	-10.650	-34.612	46.61	46.71	2.37	5.08	8.75	3	3
10.450	34.941	-10.650	-34.541	50.88	50.92	3.26	6.41	7.32	6	6
10.750	35.269	-10.750	-35.269	42.39	42.42	1.56	6.04	7.31	3	3
10.350	35.597	-10.550	-35.597	39.89	39.93	3.06	7.72	8.01	3	3
10.950	35.925	-10.950	-35.925	43.89	43.93	3.09	7.04	8.22	3	3
11.050	36.253	-11.050	-36.253	48.38	48.34	2.91	6.02	8.73	3	3
11.350	36.581	-11.350	-36.581	46.56	46.91	3.59	6.62	9.07	3	3
11.250	36.909	-11.250	-36.909	44.24	44.18	2.94	6.65	8.61	3	3
11.350	37.237	-11.350	-37.237	45.29	45.34	2.71	5.97	8.84	3	3
11.450	37.565	-11.450	-37.565	49.76	49.80	1.81	3.64	9.42	3	3
11.550	37.893	-11.550	-37.893	50.35	50.19	1.87	3.25	9.26	3	3
11.650	38.221	-11.650	-38.221	49.80	49.74	2.34	4.92	9.63	3	3
11.750	38.549	-11.750	-38.549	51.67	51.51	3.42	6.18	9.91	3	3
11.850	38.877	-11.850	-38.877	50.09	50.01	3.04	7.23	9.91	3	3
11.950	39.206	-11.950	-39.206	52.03	52.08	3.33	6.49	10.07	3	3
12.050	39.534	-12.050	-39.534	54.90	54.85	3.53	6.69	10.35	3	3
12.150	39.862	-12.150	-39.662	49.03	49.07	3.33	6.76	9.79	3	3
12.250	40.190	-12.250	-40.190	47.91	47.93	3.53	6.56	9.49	3	3
12.350	40.518	-12.350	-40.518	48.01	48.05	3.69	7.27	10.04	3	3
12.450	40.846	-12.450	-40.846	46.44	46.47	3.41	7.33	10.48	3	3
12.550	41.174	-12.550	-41.174	49.35	49.29	3.21	6.50	10.43	3	3
12.650	41.502	-12.650	-41.502	44.95	44.35	3.23	6.69	10.91	3	3
12.750	41.830	-12.750	-41.830	54.31	54.14	3.50	6.47	11.24	3	3
12.850	42.158	-12.850	-42.158	54.12	54.11	3.48	6.17	11.57	3	3
12.950	42.486	-12.950	-42.686	53.79	53.84	3.20	5.96	11.71	3	3
13.050	42.814	-13.050	-42.814	55.83	55.89	3.46	6.28	11.25	3	3
13.150	43.143	-13.150	-43.143	35.71	35.78	2.85	5.97	10.13	3	3
13.250	43.471	-13.250	-43.471	41.92	41.95	1.92	5.20	4.17	11	3
13.350	43.799	-13.350	-43.799	113.07	113.10	2.13	1.89	5.75	7	7
13.450	44.127	-13.450	-44.127	145.05	145.08	1.11	0.76	6.54	6	6
13.550	44.455	-13.550	-44.455	143.73	143.76	1.01	0.71	6.54	6	6
13.650	44.783	-13.650	-44.783	138.13	138.16	1.08	0.77	6.62	6	6
13.750	45.111	-13.750	-45.111	143.14	143.17	1.20	0.85	6.65	6	6
13.850	45.439	-13.850	-45.439	148.33	148.36	1.24	0.84	6.25	6	6
13.950	45.767	-13.950	-45.767	168.84	168.87	1.33	0.79	7.04	7	6
14.050	46.095	-14.050	-46.095	194.74	194.78	1.63	0.86	7.42	6	6
14.150	46.423	-14.150	-46.423	220.53	220.57	2.38	1.08	8.45	6	6
14.250	46.751	-14.250	-46.751	226.04	226.09	2.69	1.19	9.15	6	6
14.350	47.079	-14.350	-47.079	200.92	200.01	2.05	1.03	10.49	7	6
14.450	47.408	-14.450	-47.408	162.92	163.17	1.14	0.68	10.60	6	6
14.550	47.736	-14.550	-47.736	142.77	142.82	0.81	0.56	10.51	7	6
14.650	48.064	-14.650	-48.064	120.67	120.72	1.05	0.83	10.10	6	6
14.750	48.392	-14.750	-48.392	70.46	70.51	1.33	1.68	9.42	7	6
14.850	48.720	-14.850	-48.720	148.72	148.76	1.81	1.22	12.33	6	6
14.950	49.048	-14.950	-49.048	162.45	162.49	1.95	1.20	16.17	6	6
15.050	49.376	-15.050	-49.376	131.57	131.61	2.59	1.97	21.59	7	5
15.150	49.704	-15.150	-49.704	60.24	60.31	1.71	2.87	14.24	8	4

Run No: 05-0308-1256-5721
CPT File: 7516F01A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (kgf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col 10 SBT (Zone)	Col-11 SBTn (Zone)
15.250	50.032	-15.250	-50.032	42.25	43.33	1.17	3.16	16.10	6	4
15.300	50.360	-15.350	-50.360	49.15	49.23	1.51	3.27	16.51	6	4
15.450	50.854	-15.450	-50.686	50.39	50.69	1.12	3.38	17.58	5	4
15.500	50.836	-15.500	-50.836	38.42	38.51	1.11	3.92	18.21	5	3
15.550	51.145	-15.550	-50.965	30.75	30.85	1.16	4.08	18.41	4	3
15.750	51.673	-15.750	-51.673	28.22	28.29	1.19	4.91	19.08	3	3
15.850	52.001	-15.850	-52.001	28.95	28.85	1.18	5.16	19.42	3	3
15.950	52.329	-15.950	-52.329	33.32	33.41	1.76	5.27	20.01	3	3
16.050	52.657	-16.050	-52.657	39.25	39.35	2.06	5.23	21.08	3	3
16.150	52.985	-16.150	-52.965	65.20	65.32	2.86	6.32	23.65	3	3
16.250	53.313	-16.250	-53.313	62.15	62.84	2.60	3.81	22.15	5	4
16.350	53.641	-16.350	-53.641	56.57	56.69	1.40	2.52	22.25	6	4
16.450	53.969	-16.150	-53.969	43.57	43.68	1.54	3.53	22.65	5	4
16.550	54.297	-16.550	-54.297	68.30	68.23	2.03	2.96	24.26	6	4
16.650	54.625	-16.650	-54.625	106.46	101.58	2.44	2.25	24.94	7	5
16.750	54.953	-16.750	-54.953	107.16	107.36	2.54	2.34	24.26	7	5
16.850	55.281	-16.850	-55.281	99.94	100.07	2.41	2.43	24.32	7	5
16.950	55.610	-16.951	-55.610	105.12	105.21	2.27	2.15	24.94	7	5
17.050	55.938	-17.051	-55.938	101.38	101.49	2.35	2.31	24.98	7	5
17.150	56.266	-17.151	-56.266	106.68	106.79	0.74	0.71	25.46	5	6
17.250	56.594	-17.251	-56.594	118.94	119.05	1.74	1.47	22.19	8	5
17.350	56.922	-17.351	-56.922	198.89	199.09	1.75	0.72	29.05	9	6
17.450	57.250	-17.451	-57.250	224.93	225.24	1.62	0.72	24.15	9	6
17.550	57.578	-17.551	-57.578	136.02	136.13	1.65	0.75	24.27	8	5
17.650	57.906	-17.651	-57.906	121.97	120.07	1.45	1.24	22.41	8	5
17.750	58.234	-17.751	-58.234	64.71	64.83	1.35	2.01	20.58	7	5
17.850	58.562	-17.851	-58.562	32.91	32.19	0.93	2.58	20.97	5	4
17.950	58.890	-17.951	-58.890	29.48	29.55	0.75	2.56	21.20	5	3
18.050	59.218	-18.050	-59.218	30.57	30.69	0.59	1.91	24.82	5	4
18.150	59.547	-18.150	-59.547	41.36	41.50	1.21	2.02	29.24	6	4
18.250	59.875	-18.250	-59.875	94.64	94.75	1.02	1.05	40.16	8	5
18.350	60.203	-18.350	-60.203	121.69	122.06	0.95	0.45	38.27	9	6
18.450	60.531	-18.450	-60.531	121.44	121.51	0.59	0.49	36.51	9	4
18.550	60.859	-18.550	-60.859	115.63	115.75	0.59	0.51	35.09	9	4
18.650	61.187	-18.650	-61.187	104.11	104.29	0.55	0.51	33.78	9	4
18.750	61.515	-18.750	-61.515	100.23	100.38	0.45	0.44	33.23	9	4
18.850	61.843	-18.850	-61.843	104.32	104.47	0.40	0.38	32.45	9	4
18.950	62.171	-18.950	-62.171	122.21	122.42	0.56	0.47	32.75	9	4
19.050	62.499	-19.050	-62.499	156.13	156.29	0.75	0.47	33.76	9	4
19.150	62.827	-19.150	-62.827	151.46	151.62	0.64	0.55	33.63	9	4
19.250	63.155	-19.250	-63.155	155.32	155.49	0.79	0.50	33.16	9	4
19.350	63.483	-19.350	-63.483	151.05	150.21	0.85	0.55	33.12	9	4
19.450	63.812	-19.450	-63.812	136.26	136.51	0.75	0.55	32.79	9	4
19.550	64.140	-19.550	-64.140	136.59	136.74	0.64	0.46	32.79	9	4
19.650	64.468	-19.650	-64.468	137.38	137.53	0.65	0.49	32.90	9	4
19.750	64.796	-19.750	-64.796	112.85	112.99	0.59	0.55	31.87	9	4
19.850	65.124	-19.850	-65.124	149.90	149.15	0.85	0.61	32.29	9	4
19.950	65.452	-19.950	-65.452	104.11	104.22	0.31	0.30	24.76	9	4
20.050	65.780	-20.050	-65.780	147.85	147.92	0.55	0.38	14.75	9	4
20.150	66.108	-20.150	-66.108	63.61	63.69	0.59	0.92	26.47	8	5
20.250	66.436	-20.250	-66.436	68.36	68.45	0.95	1.41	25.18	6	4
20.350	66.764	-20.350	-66.764	32.22	37.41	0.68	1.79	44.30	7	4
20.450	67.092	-20.450	-67.092	60.75	61.01	0.71	1.74	24.90	7	4
20.550	67.420	-20.550	-67.420	39.39	35.68	1.14	2.92	52.31	5	3
20.650	67.749	-20.650	-67.749	41.24	41.57	1.61	3.92	50.46	5	3
20.750	68.077	-20.750	-68.077	43.92	44.25	2.01	4.57	52.46	4	3
20.850	68.405	-20.850	-68.405	41.94	42.24	2.05	4.84	65.38	4	3
20.950	68.733	-20.950	-68.733	36.64	36.72	1.84	5.02	61.46	3	3
21.050	69.061	-21.050	-69.061	37.64	37.74	1.75	4.73	54.17	4	3
21.150	69.389	-21.150	-69.389	40.21	40.55	1.95	4.82	58.99	4	3

Run No: 06-0926-1058-9621
CPT File: 20120604A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col 10 SBT (Zhang)	Col 11 SBTn (Zhang)
21.200	69.717	-21.250	-69.717	44.27	44.67	1.30	4.03	84.89	5	3
21.300	70.046	-21.350	-70.046	44.75	45.22	1.80	3.99	100.24	5	3
21.450	70.373	-21.450	-70.373	42.72	43.31	1.97	4.61	116.56	6	3
21.550	70.701	-21.550	-70.701	35.51	35.56	2.07	5.69	136.83	5	3
21.650	71.029	-21.650	-71.029	37.28	37.84	1.62	4.80	121.56	6	3
21.750	71.357	-21.750	-71.357	26.98	27.61	2.05	7.49	142.71	5	3
21.850	71.685	-21.850	-71.685	37.51	38.65	2.16	5.59	154.68	5	3
21.950	72.014	-21.950	-72.014	38.78	39.46	2.21	5.59	148.73	5	3
22.050	72.342	-22.050	-72.342	40.41	41.13	2.32	5.63	153.11	5	3
22.150	72.670	-22.150	-72.670	41.10	42.84	2.52	6.00	135.55	5	3
22.250	72.998	-22.250	-72.998	36.88	38.56	2.36	6.58	146.39	5	3
22.350	73.326	-22.350	-73.326	30.92	31.66	1.82	5.78	133.51	5	3
22.450	73.654	-22.450	-73.654	14.93	15.24	1.21	8.02	156.14	5	3
22.550	73.982	-22.550	-73.982	47.19	48.14	2.64	5.59	160.25	5	3
22.650	74.310	-22.650	-74.310	53.55	54.89	2.78	5.06	160.61	6	3
22.750	74.638	-22.750	-74.638	58.28	58.88	2.60	4.72	146.94	6	3
22.850	74.966	-22.850	-74.966	49.25	50.21	2.56	4.96	204.61	6	4
22.950	75.294	-22.950	-75.294	44.66	45.43	2.53	5.56	151.82	6	3
23.050	75.622	-23.050	-75.622	41.65	42.44	2.60	6.12	149.70	5	3
23.150	75.951	-23.150	-75.951	44.02	45.13	2.32	5.13	231.29	5	3
23.250	76.279	-23.250	-76.279	45.58	46.26	2.11	4.58	253.41	6	3
23.350	76.607	-23.350	-76.607	44.43	45.12	2.35	5.21	145.85	5	3
23.450	76.935	-23.450	-76.935	45.87	46.92	2.62	5.57	181.49	5	3
23.550	77.263	-23.550	-77.263	42.61	43.55	2.04	5.04	221.89	5	3
23.650	77.591	-23.650	-77.591	39.26	40.26	2.10	5.26	235.57	5	3
23.750	77.919	-23.750	-77.919	37.93	39.26	1.83	4.65	236.65	6	3
23.850	78.247	-23.850	-78.247	41.32	42.57	2.04	4.80	270.72	6	3
23.950	78.575	-23.950	-78.575	41.36	42.52	2.37	5.59	253.62	5	3
24.050	78.903	-24.050	-78.903	41.39	42.22	2.24	5.33	190.36	5	3
24.150	79.231	-24.150	-79.231	35.89	37.68	1.96	5.24	211.27	5	3
24.250	79.559	-24.250	-79.559	34.21	34.97	1.16	4.15	143.09	6	3
24.350	79.887	-24.350	-79.887	32.20	33.27	1.27	3.81	220.16	5	3
24.450	80.215	-24.450	-80.215	29.73	31.92	1.54	5.13	253.99	5	3
24.550	80.544	-24.550	-80.544	31.46	32.72	1.57	4.81	268.56	5	3
24.650	80.872	-24.650	-80.872	35.35	36.66	1.78	4.87	277.74	6	3
24.750	81.200	-24.750	-81.200	35.35	36.79	2.05	5.57	250.97	5	3
24.850	81.528	-24.850	-81.528	46.11	46.46	2.36	5.24	266.51	5	3
24.950	81.856	-24.950	-81.856	48.13	50.46	2.52	5.19	282.03	5	3
25.050	82.184	-25.050	-82.184	47.53	48.62	2.56	5.21	259.77	5	3
25.150	82.512	-25.150	-82.512	50.35	52.22	2.26	4.13	293.89	6	3
25.250	82.840	-25.250	-82.840	46.25	48.06	2.21	4.85	285.84	6	3
25.350	83.169	-25.350	-83.169	47.43	47.95	2.56	5.34	131.41	5	3
25.450	83.497	-25.450	-83.497	46.16	47.10	2.76	5.85	129.27	5	3
25.550	83.825	-25.550	-83.825	45.42	45.91	2.77	6.04	185.98	5	3
25.650	84.153	-25.650	-84.153	42.61	43.85	2.56	5.98	94.81	5	3
25.750	84.481	-25.750	-84.481	39.49	39.97	1.69	4.52	95.06	4	3
25.850	84.809	-25.850	-84.809	39.29	39.81	1.81	4.55	110.04	4	3
25.950	85.137	-25.950	-85.137	40.05	40.61	1.69	4.45	120.00	4	3
26.050	85.465	-26.050	-85.465	42.75	43.36	1.92	4.44	104.73	4	3
26.150	85.793	-26.150	-85.793	38.34	38.78	2.02	5.31	137.67	5	3
26.250	86.121	-26.250	-86.121	31.52	32.21	1.74	5.52	168.01	5	3
26.350	86.449	-26.350	-86.449	29.83	30.53	1.60	5.41	146.93	5	3
26.450	86.777	-26.450	-86.777	31.35	31.83	1.60	5.01	154.07	5	3
26.550	87.105	-26.550	-87.105	33.80	34.35	1.59	4.92	119.23	5	3
26.650	87.433	-26.650	-87.433	31.30	31.64	1.43	4.72	71.87	4	3
26.750	87.761	-26.750	-87.761	34.97	35.36	1.76	4.98	82.12	5	3
26.850	88.089	-26.850	-88.089	36.66	41.03	1.87	5.26	83.29	5	3
26.950	88.418	-26.950	-88.418	35.77	36.24	1.63	4.53	96.45	6	3
27.050	88.746	-27.050	-88.746	42.24	42.62	1.71	4.05	124.71	5	3
27.150	89.074	-27.150	-89.074	41.26	41.97	1.54	3.69	144.63	5	3

Run No. 05-0508-1258-5021
CPT File. 721CP04A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
27.250	89.402	-27.250	-89.402	35.16	36.91	1.63	4.41	331.01	4	3
27.350	89.730	-27.350	-89.730	38.39	39.94	2.04	5.03	335.11	4	3
27.450	90.058	-27.450	-90.058	37.53	39.20	2.21	5.65	355.52	3	3
27.550	90.386	-27.550	-90.386	46.09	48.24	2.44	5.05	450.09	4	3
27.650	90.714	-27.650	-90.714	54.87	56.74	3.15	5.65	398.54	3	3
27.750	91.042	-27.750	-91.042	56.16	58.59	2.24	3.83	369.93	5	3
27.850	91.170	-27.850	-91.170	51.20	53.51	2.50	4.64	497.55	4	3
27.950	91.698	-27.950	-91.698	49.16	50.80	2.87	5.56	349.42	3	3
28.050	92.026	-28.050	-92.026	52.10	54.07	2.78	5.34	420.59	4	3
28.150	92.355	-28.150	-92.355	50.59	52.62	2.61	5.01	410.53	4	3
28.250	92.683	-28.250	-92.683	48.74	50.71	1.29	2.54	419.95	6	4

CPeaTre Inc - CPT Interpretation
Interpretation Output Release 1.22 Rev A - Build 5 Format NTP Imperial
Run No 05-1308-1256-5a23
Job No: 05-721
Client: GeoSyntec Consultants
Project Pigeon Point Landfill - Wilmington Delaware
Site CPT-05-006A
Location: Pigeon Point
Cone: 20 TON AD157
CPT Date: 05/07/05
CPT Time: 12:14
CPT File: PIGCPT06.COR
Warning Int. 0.000500
Casing Int 0.002000
Elevation (m) 0.000000

Water Table (m). 1.91 Ref. 11.0
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m) 0.30
Su (Kt used: 15.00 Su(P' (min) 0.30
Ic Method . Normalized - All Sands
State Parameter Ψ: 0.27
Used Unit Weights Assigned to Soil Zones
Rigid Calculated using qcIr
Rigid Calculated using qcIrcs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQn (Zone)	Col-14 Perm-K (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 Nkt (b/dl)
0.050	0.164	5	7	5.6E-05	111.4	0.005	0.000	0.005	1.65	6.7
0.100	0.492	6	7	1.0E-05	111.4	0.011	0.000	0.011	1.65	7.9
0.200	0.820	6	7	1.0E-05	114.6	0.046	0.000	0.046	1.65	7.0
0.300	1.148	6	6	5.0E-06	111.4	0.084	0.000	0.084	1.65	7.0
0.400	1.476	6	6	5.0E-06	111.4	0.095	0.000	0.095	1.65	10.6
0.500	1.804	5	6	5.0E-06	111.4	0.107	0.000	0.107	1.65	7.2
0.600	2.131	6	6	5.0E-06	111.4	0.119	0.000	0.119	1.65	5.6
0.700	2.461	6	6	5.0E-06	111.4	0.130	0.000	0.130	1.65	5.6
0.800	2.789	6	6	5.0E-06	111.4	0.156	0.000	0.156	1.65	5.9
0.900	3.117	5	6	5.0E-05	111.4	0.174	0.000	0.174	1.59	7.6
1.000	3.445	6	6	5.3E-06	111.4	0.192	0.000	0.192	1.53	7.2
1.100	3.773	6	5	5.4E-06	111.4	0.211	0.000	0.211	1.50	8.9
1.200	4.101	5	5	5.1E-06	111.4	0.229	0.000	0.229	1.50	6.2
1.300	4.429	6	5	3590.0	80.7	0.245	0.000	0.245	1.50	e999.0
1.400	4.757	6	6	5.0E-07	114.5	0.261	0.000	0.261	1.56	6.7
1.500	5.085	7	6	1.0E-05	114.4	0.280	0.000	0.280	1.89	8.6
1.600	5.413	8	6	5.0E-04	117.7	0.299	0.000	0.299	1.65	15.5
1.700	5.741	5	5	5.0E-06	111.4	0.318	0.000	0.318	1.77	7.0
1.800	6.069	6	5	5.0E-06	111.4	0.336	0.000	0.336	1.73	7.7
1.900	6.398	3	4	5.0E-05	111.4	0.354	0.000	0.354	1.66	3.4
2.000	6.726	3	3	5.1E-05	111.4	0.373	0.000	0.373	1.65	3.1
2.100	7.054	3	3	5.0E-05	111.4	0.391	0.000	0.391	1.60	2.6
2.200	7.382	3	4	5.0E-06	111.4	0.409	0.000	0.409	1.56	3.3
2.300	7.710	1	3	5.0E-06	111.4	0.427	0.000	0.427	1.53	2.5
2.400	8.038	3	3	5.0E-06	111.4	0.446	0.000	0.444	1.50	2.9
2.500	8.366	6	6	5.0E-05	114.5	0.464	0.000	0.464	1.47	6.3
2.600	8.694	5	3	5.0E-06	114.5	0.483	0.000	0.483	1.44	4.7
2.700	9.022	5	5	5.0E-06	114.5	0.502	0.000	0.502	1.41	4.1
2.800	9.350	5	5	5.0E-06	114.5	0.521	0.000	0.521	1.39	5.7
2.900	9.678	6	6	5.0E-05	114.6	0.539	0.000	0.539	1.36	8.5
3.000	10.006	7	6	5.0E-05	114.6	0.558	0.000	0.558	1.34	7.7
3.100	10.335	7	6	5.0E-05	114.6	0.577	0.000	0.577	1.32	10.1

Run No: 05 0108 1256 5621
CPT File: 7210P04A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 Qnet-HQ (Tsf)	Col-13 Qnet-HQc (Tsf)	Col-14 Perm-k (cm/s)	Col-15 Over Wt (psf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 OCR	Col-20 SIG (lb/ft)
3.250	10.663	6	6	5.0E-05	114.6	0.596	0.000	0.596	1.10	17.4
3.350	10.991	6	5	5.0E-05	114.6	0.615	0.000	0.615	1.25	5.5
3.450	11.319	6	6	5.0E-05	117.7	0.636	0.000	0.636	1.25	18.1
3.550	11.647	6	6	5.0E-05	114.6	0.656	0.000	0.656	1.24	21.4
3.650	11.975	6	6	5.0E-05	114.6	0.676	0.000	0.676	1.23	21.7
3.750	12.303	7	5	5.0E-05	142.6	0.696	0.000	0.696	1.20	20.0
3.850	12.633	7	6	5.0E-05	114.6	0.708	0.000	0.708	1.19	11.6
3.950	12.959	7	6	5.0E-05	114.6	0.727	0.000	0.727	1.17	11.1
4.050	13.287	7	6	5.0E-05	114.6	0.746	0.000	0.746	1.16	11.2
4.150	13.615	8	6	5.0E-04	117.7	0.765	0.009	0.757	1.16	19.2
4.250	13.943	8	6	5.0E-05	120.5	0.785	0.029	0.756	1.15	23.8
4.350	14.271	7	6	5.0E-05	114.6	0.804	0.039	0.765	1.14	10.3
4.450	14.600	6	5	5.0E-05	114.6	0.823	0.049	0.774	1.14	7.8
4.550	14.928	7	6	5.0E-04	114.6	0.842	0.060	0.782	1.13	10.5
4.650	15.256	7	6	5.0E-04	114.6	0.860	0.070	0.791	1.13	14.2
4.750	15.584	5	5	5.0E-05	114.6	0.879	0.080	0.799	1.12	15.9
4.850	15.912	7	6	5.0E-04	114.6	0.898	0.090	0.808	1.11	15.6
4.950	16.240	8	6	5.0E-04	114.6	0.917	0.101	0.816	1.10	19.8
5.050	16.568	8	6	5.0E-04	114.6	0.936	0.111	0.825	1.10	25.2
5.150	16.896	9	6	5.0E-04	117.7	0.955	0.121	0.834	1.10	27.2
5.250	17.224	7	5	-9999.0	82.7	0.971	0.131	0.840	1.09	-9999.0
5.350	17.552	9	7	5.0E-03	126.9	0.988	0.141	0.847	1.08	33.0
5.450	17.880	9	6	5.0E-05	114.6	1.007	0.151	0.856	1.06	33.7
5.550	18.209	8	6	5.0E-04	110.7	1.026	0.162	0.864	1.06	19.7
5.650	18.537	8	6	5.0E-05	114.6	1.045	0.172	0.873	1.07	16.1
5.750	18.865	5	4	5.0E-06	111.4	1.064	0.182	0.881	1.07	6.4
5.850	19.193	7	7	5.0E-02	126.3	1.083	0.192	0.891	1.06	20.4
5.950	19.521	6	6	5.0E-05	114.6	1.102	0.203	0.899	1.05	17.5
6.050	19.849	6	5	5.0E-06	114.6	1.121	0.213	0.908	1.05	6.9
6.150	20.177	4	3	5.0E-07	114.6	1.140	0.223	0.917	1.04	4.2
6.250	20.505	4	3	5.0E-07	114.6	1.159	0.234	0.925	1.04	3.9
6.350	20.833	4	4	1.0E-07	111.4	1.178	0.244	0.934	1.04	3.7
6.450	21.161	4	4	5.0E-06	114.6	1.196	0.254	0.942	1.03	3.6
6.550	21.489	4	3	5.0E-06	114.6	1.215	0.264	0.950	1.03	3.4
6.650	21.817	4	3	5.0E-06	114.6	1.234	0.275	0.959	1.02	3.2
6.750	22.145	5	4	5.0E-06	114.6	1.253	0.285	0.968	1.02	4.1
6.850	22.473	4	3	5.0E-06	114.6	1.272	0.295	0.976	1.01	3.1
6.950	22.802	4	3	5.0E-06	114.6	1.290	0.305	0.985	1.01	3.0
7.050	23.130	4	3	5.0E-07	114.6	1.309	0.315	0.993	1.00	2.9
7.150	23.458	4	3	5.0E-06	114.6	1.328	0.326	1.002	1.00	2.9
7.250	23.786	4	3	5.0E-06	114.6	1.346	0.336	1.010	0.99	2.8
7.350	24.114	4	3	5.0E-06	114.6	1.365	0.346	1.019	0.99	2.7
7.450	24.442	3	1	5.0E-06	114.6	1.384	0.357	1.027	0.98	2.7
7.550	24.770	4	3	5.0E-07	114.6	1.403	0.367	1.036	0.98	2.7
7.650	25.098	4	4	5.0E-06	114.6	1.422	0.377	1.044	0.98	3.8
7.750	25.426	5	4	5.0E-06	114.6	1.440	0.387	1.053	0.97	4.3
7.850	25.754	4	4	5.0E-05	114.6	1.459	0.398	1.062	0.97	4.6
7.950	26.082	5	5	5.0E-06	114.6	1.478	0.408	1.070	0.97	5.0
8.050	26.410	7	6	5.0E-04	117.7	1.497	0.418	1.079	0.96	14.1
8.150	26.739	9	6	6.0E-01	122.9	1.517	0.428	1.088	0.96	21.3
8.250	27.067	9	5	5.0E-01	122.9	1.537	0.439	1.098	0.96	23.7
8.350	27.395	8	5	5.0E-04	117.7	1.556	0.449	1.107	0.95	24.2
8.450	27.723	7	5	5.0E-05	114.6	1.575	0.459	1.116	0.95	12.5
8.550	28.051	6	4	5.0E-06	114.6	1.594	0.469	1.125	0.94	6.5
8.650	28.379	6	4	5.0E-05	114.6	1.613	0.480	1.133	0.94	6.0
8.750	28.707	6	4	5.0E-05	114.6	1.632	0.490	1.142	0.94	6.1
8.850	29.036	6	4	5.0E-05	114.6	1.650	0.500	1.150	0.93	6.3
8.950	29.364	6	4	5.0E-05	114.6	1.669	0.510	1.159	0.93	6.7
9.050	29.692	7	4	5.0E-04	117.7	1.688	0.521	1.166	0.91	16.9
9.150	30.020	8	6	5.0E-04	117.7	1.707	0.531	1.175	0.92	16.7

Run No: 21-0103-1208-6423
CPT File: TOSCP66A.CCW

Col-01 Depth (ft)	Col-02 Depth (cm)	Col-17 SBT-RO (Zone)	Col-11 SBT-RO (Zone)	Col-14 Perm-A (cm/s)	Col-15 Unit Wt (pcf)	Col 16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 Nc (Index)
9.250	10.947	6	6	5.0E-05	114.6	1.727	0.562	1.344	0.92	35.0
9.300	10.615	9	6	5.0E-02	124.1	1.746	0.553	1.191	0.91	19.4
9.450	11.054	9	6	5.0E-02	124.1	1.767	0.561	1.205	0.91	20.1
9.550	11.310	9	6	5.0E-02	124.1	1.781	0.572	1.215	0.91	21.2
9.650	11.663	9	6	5.0E-02	124.1	1.801	0.582	1.225	0.91	20.1
9.750	11.938	9	6	5.0E-02	124.1	1.820	0.592	1.235	0.91	20.6
9.850	12.219	9	6	5.0E-02	124.1	1.843	0.602	1.245	0.91	20.6
9.950	12.544	9	6	5.0E-02	124.1	1.864	0.613	1.255	0.91	22.1
10.050	12.972	6	6	5.0E-04	117.7	1.848	0.623	1.265	0.91	28.3
10.150	13.130	8	6	5.0E-02	114.6	1.907	0.633	1.274	0.89	26.9
10.250	13.428	8	6	5.0E-02	114.6	1.929	0.643	1.283	0.88	27.1
10.350	13.556	8	6	5.0E-02	114.6	1.944	0.654	1.293	0.88	27.6
10.450	13.884	8	6	5.0E-02	114.6	1.962	0.665	1.306	0.88	27.5
10.550	14.212	8	6	5.0E-02	114.6	1.980	0.674	1.316	0.86	26.7
10.650	14.541	8	6	5.0E-02	114.6	1.999	0.684	1.326	0.87	27.5
10.750	15.269	8	6	5.0E-02	114.6	2.017	0.695	1.337	0.87	25.6
10.850	15.597	8	6	5.0E-02	114.6	2.035	0.705	1.346	0.87	27.2
10.950	15.925	8	6	5.0E-02	114.6	2.054	0.715	1.356	0.86	27.1
11.050	16.253	8	6	5.0E-02	114.6	2.072	0.725	1.367	0.86	26.0
11.150	16.581	8	6	5.0E-02	114.6	2.090	0.735	1.377	0.86	26.7
11.250	16.909	8	6	5.0E-02	114.6	2.108	0.746	1.387	0.86	26.8
11.350	17.237	8	6	5.0E-02	114.6	2.127	0.755	1.397	0.85	26.6
11.450	17.565	8	6	5.0E-02	114.6	2.145	0.766	1.409	0.85	26.7
11.550	17.893	8	6	5.0E-02	114.6	2.163	0.777	1.419	0.85	26.1
11.650	18.221	8	6	5.0E-02	114.6	2.182	0.787	1.429	0.85	26.6
11.750	18.549	8	6	5.0E-02	114.6	2.200	0.797	1.439	0.84	26.0
11.850	18.877	8	6	5.0E-02	114.6	2.218	0.807	1.451	0.84	26.6
11.950	19.205	8	6	5.0E-02	114.6	2.236	0.818	1.461	0.84	26.5
12.050	19.534	8	6	5.0E-02	114.6	2.255	0.828	1.471	0.84	26.6
12.150	19.862	8	6	5.0E-02	114.6	2.273	0.838	1.481	0.83	26.5
12.250	20.190	8	6	5.0E-02	114.6	2.291	0.848	1.493	0.83	26.6
12.350	20.518	8	6	5.0E-02	114.6	2.310	0.859	1.503	0.83	26.2
12.450	20.846	8	6	5.0E-02	114.6	2.328	0.869	1.515	0.83	26.5
12.550	21.174	8	6	5.0E-02	114.6	2.346	0.879	1.525	0.82	26.2
12.650	21.502	8	6	5.0E-02	114.6	2.365	0.889	1.535	0.82	26.6
12.750	21.830	8	6	5.0E-02	114.6	2.383	0.900	1.545	0.82	26.9
12.850	22.158	8	6	5.0E-02	114.6	2.401	0.910	1.557	0.82	26.6
12.950	22.486	8	6	5.0E-02	114.6	2.419	0.920	1.567	0.82	26.6
13.050	22.814	8	6	5.0E-02	114.6	2.437	0.930	1.577	0.82	26.6
13.150	23.143	8	6	5.0E-02	114.6	2.455	0.941	1.589	0.82	26.4
13.250	23.471	8	6	5.0E-02	114.6	2.474	0.951	1.599	0.82	26.6
13.350	23.799	9	6	5.0E-04	117.7	2.457	0.961	1.609	0.81	26.1
13.450	24.127	9	6	5.0E-02	124.1	2.515	0.971	1.621	0.82	27.9
13.550	24.455	9	6	5.0E-02	124.1	2.535	0.981	1.635	0.82	27.5
13.650	24.783	9	6	5.0E-02	124.1	2.555	0.992	1.645	0.82	26.5
13.750	25.111	9	6	5.0E-02	124.1	2.577	1.002	1.655	0.82	27.9
13.850	25.439	9	6	5.0E-02	124.1	2.597	1.012	1.665	0.79	26.4
13.950	25.767	9	6	5.0E-02	124.1	2.618	1.022	1.675	0.79	27.3
14.050	26.095	9	6	5.0E-02	124.1	2.638	1.033	1.685	0.79	27.1
14.150	26.423	9	6	5.0E-02	124.1	2.658	1.043	1.695	0.79	27.3
14.250	26.751	9	6	5.0E-02	124.1	2.679	1.053	1.705	0.78	27.3
14.350	27.079	9	6	5.0E-02	124.1	2.699	1.063	1.715	0.78	26.3
14.450	27.407	9	6	5.0E-02	124.1	2.719	1.074	1.725	0.78	26.5
14.550	27.735	9	6	5.0E-02	124.1	2.740	1.084	1.735	0.78	26.2
14.650	28.064	9	6	5.0E-02	124.1	2.760	1.094	1.745	0.77	27.3
14.750	28.392	8	6	5.0E-04	117.7	2.740	1.104	1.754	0.77	27.5
14.850	28.720	9	6	5.0E-01	124.1	2.785	1.115	1.765	0.77	25.6
14.950	29.048	9	6	5.0E-02	124.1	2.820	1.125	1.775	0.77	26.9
15.050	29.376	9	6	5.0E-04	117.7	2.819	1.135	1.784	0.77	22.0
15.150	29.704	8	6	5.0E-05	114.6	2.868	1.145	1.793	0.76	23.1

Run No. 05-0903-1256-5621
O/C File: 721C5C4A.C0A

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 ΔDT-DQ (None)	Col-13 ΔDT-DQ= (None)	Col-14 Perm-K (md/p)	Col-15 Unit Wt (pcf)	Col-16 T Stress (ksi)	Col-17 C Stress (ksi)	Col-18 S Stress (ksi)	Col-19 Cn	Col-20 UCS (lb/in.
15.250	50.037	8	5	5.0E-03	114.6	2.817	1.150	1.722	0.74	24.6
15.350	50.360	8	5	5.0E-05	114.6	2.696	1.100	1.720	0.74	13.9
15.450	50.688	8	5	5.0E-04	114.6	2.925	1.176	1.739	0.75	24.4
15.550	51.016	8	5	5.0E-04	114.6	2.834	1.136	1.747	0.75	15.4
15.650	51.345	7	5	5.0E-07	114.6	2.952	1.187	1.756	0.75	19.7
15.750	51.673	7	6	5.0E-06	113.6	2.901	1.207	1.754	0.75	27.1
15.850	52.001	7	5	5.0E-08	113.6	2.969	1.217	1.772	0.75	27.4
15.950	52.329	7	5	5.0E-08	113.6	3.003	1.227	1.780	0.75	32.0
16.050	52.657	8	5	5.0E-08	113.6	3.026	1.230	1.788	0.75	37.7
16.150	52.985	8	6	5.0E-06	113.6	3.066	1.248	1.806	0.75	42.6
16.250	53.313	8	6	5.0E-06	114.6	3.063	1.256	1.805	0.74	40.1
16.350	53.641	8	5	5.0E-05	114.6	3.081	1.260	1.813	0.75	31.1
16.450	53.969	8	5	5.0E-06	114.6	3.100	1.273	1.822	0.74	29.3
16.550	54.297	8	6	5.0E-05	114.6	3.107	1.269	1.819	0.74	25.1
16.650	54.625	9	6	5.0E-04	117.7	3.128	1.299	1.819	0.74	34.0
16.750	54.953	9	6	5.0E-04	117.7	3.157	1.309	1.846	0.74	31.2
16.850	55.281	9	6	5.0E-04	117.7	3.177	1.320	1.857	0.73	31.9
16.950	55.610	9	6	5.0E-04	117.7	3.196	1.330	1.866	0.73	31.9
17.050	55.938	9	6	5.0E-04	117.7	3.215	1.340	1.875	0.73	32.4
17.150	56.266	9	6	5.0E-02	124.1	3.235	1.350	1.885	0.72	28.6
17.250	56.594	9	6	5.0E-03	120.9	3.255	1.360	1.895	0.72	33.3
17.350	56.922	9	6	5.0E-02	124.1	3.275	1.371	1.905	0.72	38.1
17.450	57.250	9	6	5.0E-02	124.1	3.296	1.381	1.915	0.72	43.1
17.550	57.579	9	6	5.0E-02	124.1	3.316	1.391	1.926	0.72	37.4
17.650	57.907	1	4	5.0E-03	120.9	3.336	1.401	1.936	0.72	28.7
17.750	58.234	8	5	5.0E-04	117.7	3.356	1.412	1.944	0.72	20.7
17.850	58.562	7	3	5.0E-05	114.6	3.375	1.422	1.953	0.72	12.3
17.950	58.890	7	4	5.0E-05	114.6	3.396	1.432	1.961	0.71	11.3
18.050	59.218	7	5	5.0E-05	114.6	3.412	1.442	1.971	0.71	11.6
18.150	59.547	8	7	5.0E-05	114.6	3.431	1.452	1.979	0.71	16.9
18.250	59.875	7	5	5.0E-03	120.9	3.453	1.462	1.988	0.71	22.7
18.350	60.203	7	5	5.0E-02	124.1	3.473	1.472	1.997	0.71	23.6
18.450	60.531	7	5	5.0E-02	124.1	3.493	1.482	2.006	0.71	25.5
18.550	60.859	7	4	5.0E-02	124.1	3.513	1.493	2.016	0.70	12.2
18.650	61.187	7	4	5.0E-02	124.1	3.532	1.503	2.028	0.70	10.0
18.750	61.515	7	4	5.0E-02	124.1	3.552	1.514	2.034	0.70	19.5
18.850	61.843	7	4	5.0E-02	124.1	3.572	1.524	2.044	0.70	10.0
18.950	62.171	7	4	5.0E-02	124.1	3.592	1.535	2.054	0.70	19.4
19.050	62.499	9	5	5.0E-02	124.1	3.612	1.545	2.068	0.70	29.9
19.150	62.827	9	5	5.0E-02	124.1	3.634	1.555	2.078	0.69	29.0
19.250	63.155	9	6	5.0E-02	124.1	3.654	1.565	2.091	0.69	30.6
19.350	63.483	9	6	5.0E-02	124.1	3.674	1.575	2.091	0.69	30.5
19.450	63.812	9	6	5.0E-02	124.1	3.695	1.587	2.103	0.69	26.1
19.550	64.140	9	6	5.0E-02	124.1	3.715	1.595	2.115	0.69	26.6
19.650	64.468	9	6	5.0E-02	124.1	3.735	1.605	2.126	0.69	26.6
19.750	64.796	9	5	5.0E-02	124.1	3.756	1.617	2.137	0.68	29.5
19.850	65.124	9	5	5.0E-02	124.1	3.776	1.627	2.149	0.68	29.5
19.950	65.452	9	5	5.0E-02	124.1	3.796	1.637	2.159	0.68	35.5
20.050	65.780	8	6	5.0E-02	124.1	3.817	1.647	2.169	0.68	28.3
20.150	66.108	8	7	5.0E-03	120.9	3.837	1.658	2.179	0.68	26.2
20.250	66.436	8	5	5.0E-05	114.6	3.858	1.668	2.193	0.68	28.5
20.350	66.764	8	5	5.0E-04	117.7	3.878	1.678	2.201	0.67	31.9
20.450	67.092	8	5	5.0E-04	117.7	3.898	1.688	2.214	0.67	33.3
20.550	67.420	8	5	5.0E-05	114.6	3.914	1.699	2.224	0.67	35.2
20.650	67.749	9	5	5.0E-06	114.6	3.932	1.709	2.224	0.67	29.8
20.750	68.077	8	5	5.0E-07	114.6	3.951	1.719	2.232	0.67	28.3
20.850	68.405	8	5	5.0E-07	114.6	3.971	1.729	2.241	0.67	27.9
20.950	68.733	7	5	5.0E-08	111.6	3.969	1.739	2.247	0.67	35.2
21.050	69.061	7	5	5.0E-07	114.6	4.007	1.750	2.259	0.67	24.1
21.150	69.389	7	5	5.0E-07	114.6	4.026	1.760	2.266	0.66	25.9

Run No. 05-0706-1236-1(2)
CPT File: 721CP04A.COR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQ (Zone)	Col-14 Sens-A (e-/a)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Fn	Col-20 N60 (n/ft)
21.250	69.717	7	5	5.0E-06	134.6	4.945	3.170	2.216	0.60	21.6
21.350	70.045	7	5	5.0E-06	134.6	4.984	3.180	2.241	0.61	21.7
21.450	70.373	7	5	5.0E-07	134.6	4.962	1.791	2.269	0.46	27.7
21.550	70.701	7	6	5.0E-08	131.4	4.301	1.801	2.300	0.66	34.1
21.650	71.029	7	5	5.0E-07	134.6	4.319	1.811	2.308	0.66	24.2
21.750	71.357	7	6	5.0E-08	131.4	4.338	1.821	2.316	0.66	34.0
21.850	71.685	7	6	5.0E-08	131.4	4.166	1.832	2.324	0.66	34.0
21.950	72.013	6	6	5.0E-08	131.4	4.374	1.842	2.332	0.66	33.8
22.050	72.342	6	6	5.0E-08	131.4	4.393	1.852	2.341	0.66	39.4
22.150	72.670	7	5	5.0E-08	131.4	4.411	1.862	2.349	0.66	40.2
22.250	72.998	6	6	5.0E-08	131.4	4.431	1.873	2.357	0.66	34.1
22.350	73.326	6	6	5.0E-08	131.4	4.449	1.883	2.365	0.66	40.2
22.450	73.654	6	6	5.0E-08	131.4	4.468	1.893	2.373	0.61	33.8
22.550	73.982	7	5	5.0E-08	131.4	4.486	1.903	2.381	0.60	46.7
22.650	74.310	7	5	5.0E-07	134.6	4.501	1.914	2.389	0.61	41.7
22.750	74.636	7	5	5.0E-07	134.6	4.521	1.924	2.398	0.54	35.1
22.850	74.966	7	5	5.0E-07	134.6	4.540	1.934	2.406	0.54	32.1
22.950	75.294	6	6	5.0E-08	131.4	4.559	1.944	2.414	0.66	41.5
23.050	75.622	6	6	5.0E-08	131.4	4.577	1.955	2.422	0.66	40.6
23.150	75.951	6	6	5.0E-08	131.4	4.596	1.965	2.430	0.66	41.2
23.250	76.279	7	5	5.0E-07	134.6	4.614	1.975	2.439	0.54	25.4
23.350	76.607	7	6	5.0E-08	131.4	4.632	1.985	2.447	0.66	43.2
23.450	76.935	7	6	5.0E-08	131.4	4.651	1.995	2.455	0.66	44.0
23.550	77.263	6	6	5.0E-08	131.4	4.669	2.006	2.463	0.66	41.9
23.650	77.591	6	6	5.0E-08	131.4	4.687	2.016	2.471	0.66	38.6
23.750	77.919	6	6	5.0E-07	134.6	4.705	2.026	2.479	0.66	25.0
23.850	78.247	6	6	5.0E-07	134.6	4.725	2.037	2.488	0.67	27.2
23.950	78.575	6	6	5.0E-08	131.4	4.743	2.047	2.496	0.67	47.7
24.050	78.903	6	6	5.0E-08	131.4	4.761	2.057	2.504	0.67	47.4
24.150	79.231	6	6	5.0E-08	131.4	4.780	2.067	2.512	0.67	35.3
24.250	79.559	6	6	5.0E-07	134.6	4.798	2.078	2.521	0.65	32.3
24.350	79.887	6	6	5.0E-06	134.6	4.817	2.088	2.529	0.65	15.5
24.450	80.216	6	6	5.0E-08	131.4	4.835	2.098	2.537	0.65	39.6
24.550	80.544	6	6	5.0E-08	131.4	4.851	2.109	2.545	0.63	31.3
24.650	80.872	6	6	5.0E-07	134.6	4.872	2.119	2.554	0.63	23.4
24.750	81.200	6	6	5.0E-08	131.4	4.891	2.129	2.562	0.62	35.2
24.850	81.528	6	6	5.0E-08	131.4	4.909	2.139	2.570	0.62	43.6
24.950	81.856	6	6	5.0E-08	131.4	4.927	2.149	2.578	0.62	46.1
25.050	82.184	6	6	5.0E-08	131.4	4.946	2.160	2.586	0.62	46.6
25.150	82.512	6	6	5.0E-08	134.6	4.964	2.170	2.594	0.62	45.5
25.250	82.840	6	6	5.0E-07	134.6	4.983	2.180	2.603	0.62	30.1
25.350	83.168	7	5	5.0E-08	131.4	4.801	2.190	2.611	0.62	45.6
25.450	83.496	7	5	5.0E-07	131.4	4.820	2.200	2.619	0.62	45.1
25.550	83.824	7	5	5.0E-08	131.4	4.838	2.211	2.627	0.62	44.0
25.650	84.153	7	5	5.0E-08	131.4	4.856	2.221	2.636	0.62	47.2
25.750	84.481	7	5	5.0E-07	134.6	4.875	2.231	2.644	0.62	29.5
25.850	84.809	7	5	5.0E-07	134.6	4.894	2.241	2.652	0.61	25.4
25.950	85.137	7	6	5.0E-07	134.6	4.912	2.252	2.661	0.61	35.5
26.050	85.465	7	5	5.0E-07	134.6	4.931	2.262	2.669	0.61	27.1
26.150	85.793	7	6	5.0E-08	131.4	4.949	2.272	2.678	0.61	37.1
26.250	86.121	6	6	5.0E-08	131.4	4.968	2.282	2.686	0.61	39.4
26.350	86.449	6	6	5.0E-08	131.4	4.986	2.291	2.694	0.61	39.2
26.450	86.777	6	6	5.0E-08	131.4	5.005	2.301	2.702	0.61	38.5
26.550	87.105	7	6	5.0E-06	134.6	5.023	2.311	2.710	0.51	18.5
26.650	87.433	7	6	5.0E-07	134.6	5.042	2.320	2.719	0.61	25.2
26.750	87.761	7	6	5.0E-08	131.4	5.060	2.330	2.727	0.61	33.9
26.850	88.089	7	6	5.0E-08	131.4	5.079	2.340	2.735	0.60	35.6
26.950	88.418	7	6	5.0E-07	134.6	5.097	2.350	2.743	0.60	27.1
27.050	88.746	7	5	5.0E-06	134.6	5.116	2.360	2.752	0.60	20.4
27.150	89.074	7	6	5.0E-06	134.6	5.135	2.370	2.760	0.60	22.1

Run No 05-0308-1258-5621
CPT File: 721CP04A.CGR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT SQ (Zone)	Col-13 SBT-SQn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 F Stress (tsf)	Col-19 Cn	Col-20 NAC (b/ft)
27.250	89.402	5	5	5.0E-07	114.6	5.154	2.385	2.769	0.60	23.0
27.350	89.730	5	4	5.0E-08	111.4	5.172	2.395	2.771	0.60	28.1
27.450	90.058	5	5	5.0E-08	111.4	5.150	2.405	2.781	0.60	37.5
27.550	90.386	5	4	5.0E-07	114.6	5.209	2.416	2.793	0.60	38.8
27.650	90.714	6	4	5.0E-08	111.4	5.228	2.426	2.802	0.60	44.3
27.750	91.042	6	4	5.0E-06	114.6	5.246	2.436	2.810	0.60	28.1
27.850	91.370	5	4	5.0E-07	114.6	5.265	2.446	2.819	0.60	34.2
27.950	91.695	5	4	5.0E-08	111.4	5.283	2.457	2.827	0.59	43.0
28.050	92.026	5	4	5.0E-07	114.6	5.302	2.467	2.835	0.59	34.5
28.150	92.355	5	4	5.0E-07	114.6	5.321	2.477	2.844	0.59	31.5
28.250	92.683	5	4	5.0E-05	114.6	5.340	2.457	2.852	0.59	15.4

Interpretation Output - Release 1.02 Rev. A - Build 2 Format: SI3 Imperial

Run No: 2k-0301-1350-5621
Job No: 2k-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-CS-604A
Location: Pigeon Point
Cone 20 TON AD357
CPT Date: 03/01/03
CPT Time: 11:04
CPT File: 721CP04A.COR
Northing (ft): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 1.22 (ft): 13.0
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m) 0.10
Sr Rat Used: 15.00 Sa/P' (psf) 0.30
Dr Method Jamiolkowski - All Sands
Shape Parameter M 1.20
Used Unit Weights Assigned to Soil Zones
Ic60: Calculated using qcin
Ic60cs: Calculated using qcincs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Ic(60) (tsf/ft)	Col-22 Ic(60)cs (tsf/ft)	Col-23 Ic(60)c (tsf/ft)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Ic Zone (Zone)
0.050	0.164	32.6	-9999.0	-9999.0	716.60	1.82	0.00	-9999.0	9999.0	0
0.150	0.492	29.8	-9999.0	-9999.0	375.24	1.75	0.00	-9999.0	-9999.0	0
0.250	0.820	24.4	-9999.0	-9999.0	243.75	1.61	0.00	-9999.0	9999.0	0
0.350	1.148	18.2	-9999.0	9999.0	146.10	1.16	0.00	9999.0	9999.0	0
0.450	1.476	21.0	-9999.0	9999.0	132.76	1.60	0.06	9999.0	-9999.0	0
0.550	1.804	14.4	2.0	11.5	73.32	1.65	0.00	2.61	37.4	6
0.650	2.133	11.7	1.6	8.0	46.31	1.22	0.00	2.45	36.0	6
0.750	2.461	11.2	1.5	7.5	42.75	1.23	0.01	2.49	39.8	6
0.850	2.789	10.5	1.5	6.7	34.32	1.41	0.01	2.49	39.7	6
0.950	3.117	10.2	2.1	8.2	44.14	1.62	0.00	2.41	39.2	6
1.050	3.445	14.5	2.1	7.4	38.42	1.48	0.01	2.42	41.0	6
1.150	3.773	11.8	1.7	8.0	26.17	1.80	0.01	2.71	60.7	6
1.250	4.101	12.6	1.8	8.0	27.39	1.16	0.02	2.74	42.7	6
1.350	4.429	9999.0	1.3	-9999.0	14.07	8.71	1.01	9.17	70.6	3
1.450	4.757	13.2	2.6	8.0	19.72	3.47	0.01	2.68	50.2	6
1.550	5.085	26.6	5.4	10.1	51.02	1.64	0.01	2.33	23.8	5
1.650	5.413	29.6	8.7	15.1	152.59	1.18	0.01	2.07	13.0	5
1.750	5.741	32.6	2.2	7.0	21.91	5.55	0.03	2.91	52.7	6
1.850	6.069	3.9	1.6	5.3	16.77	3.16	0.04	2.97	50.3	6
1.950	6.398	5.6	1.1	3.4	9.10	4.53	0.07	3.13	67.9	3
2.050	6.726	3.5	0.9	2.1	4.53	6.37	0.12	3.56	84.7	3
2.150	7.054	4.0	1.0	2.4	5.52	4.51	0.11	3.27	81.6	3
2.250	7.382	5.2	1.2	2.7	7.54	3.41	0.09	3.09	75.0	3
2.350	7.710	5.5	1.1	2.7	5.27	3.93	0.12	3.31	81.7	3
2.450	8.038	4.4	1.2	2.4	5.99	3.82	0.10	3.25	76.6	3
2.550	8.366	10.1	4.2	6.5	37.65	1.01	0.02	2.69	26.1	5
2.650	8.694	6.8	2.6	4.5	18.19	1.64	0.04	2.63	26.3	6
2.750	9.022	5.8	2.4	4.7	14.21	2.27	0.03	2.75	43.2	6
2.850	9.350	7.8	3.3	6.1	21.72	2.53	0.02	2.65	39.1	6
2.950	9.678	11.1	4.7	7.7	32.60	2.70	0.01	2.61	35.7	6
3.050	10.006	13.1	5.1	7.0	35.09	2.05	0.01	2.55	33.0	6
3.150	10.335	14.0	6.5	9.3	44.06	2.66	0.00	2.33	21.9	6

Run No. 03-0338-1258-5621
CPC File 721CP94A CPR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N1(60)cs (b/ft)	Col-23 N1(60)cs (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Hz	Col-27 Ic	Col-28 FC (%)	Col-29 LcZone (Zone)
3.250	10.663	22.6	16.8	33.9	75.03	2.58	0.50	2.36	25.0	5
3.350	10.991	8.3	3.7	6.8	21.24	2.36	0.50	2.67	38.6	4
3.450	11.319	21.7	15.2	25.6	83.28	1.96	0.50	2.15	17.5	5
3.550	11.647	21.4	15.1	24.3	67.32	4.08	0.50	2.42	31.6	5
3.650	11.975	20.0	13.9	16.2	81.81	3.07	0.50	2.37	24.1	5
3.750	12.303	24.1	5.9	9.5	29.33	5.67	0.50	2.59	46.3	4
3.850	12.631	17.8	6.3	8.6	33.19	2.92	0.50	2.60	35.3	5
3.950	12.959	13.0	7.3	8.6	32.46	1.99	0.50	2.47	29.6	5
4.050	13.287	13.1	7.2	8.5	31.79	2.05	0.50	2.48	29.6	5
4.150	13.615	21.1	12.1	14.3	74.41	1.63	0.50	2.16	17.6	5
4.250	13.943	15.9	11.5	13.5	35.15	0.73	0.50	2.00	12.9	6
4.350	14.271	11.5	6.5	7.7	24.22	1.86	0.50	2.69	32.0	5
4.450	14.600	8.5	5.8	6.9	14.70	1.70	-0.01	2.92	51.0	4
4.550	14.928	14.2	6.8	8.4	32.43	2.95	0.00	2.60	35.5	4
4.650	15.256	16.9	9.5	9.4	36.44	3.11	0.00	2.58	34.3	5
4.750	15.584	17.8	9.7	11.0	59.43	2.61	0.00	2.31	25.2	5
4.850	15.912	16.7	8.2	9.2	37.76	3.14	0.00	2.53	34.2	5
4.950	16.240	21.9	10.5	11.9	49.42	3.09	0.00	2.51	33.7	5
5.050	16.568	27.7	12.8	14.5	61.59	3.71	0.00	2.48	33.8	5
5.150	16.896	32.0	16.8	21.1	108.72	3.74	0.00	2.38	31.2	5
5.250	17.224	-9999.0	-9999.0	-9999.0	21.57	-9999.0	0.00	-1991.0	-1991.0	0
5.350	17.552	57.0	41.2	45.7	203.05	1.67	0.00	1.81	8.4	6
5.450	17.880	57.3	-9999.0	-9999.0	192.43	1.72	0.00	-9999.0	-9999.0	0
5.550	18.208	20.8	13.9	16.7	68.90	2.20	0.00	2.20	21.2	5
5.650	18.537	15.1	10.5	11.5	49.30	2.54	0.00	2.43	27.6	5
5.750	18.865	6.5	2.8	3.8	6.39	4.94	-0.01	3.37	66.9	2
5.850	19.193	32.2	27.9	30.2	174.39	2.72	0.00	1.85	5.5	6
5.950	19.521	15.9	10.9	11.7	50.75	2.20	0.00	2.37	29.5	5
6.050	19.849	9.4	5.3	5.8	19.27	3.22	0.00	2.79	49.5	4
6.150	20.177	6.6	2.2	3.2	6.69	7.77	0.06	3.11	61.6	3
6.250	20.505	6.0	2.2	3.0	5.96	7.05	0.10	3.13	64.8	3
6.350	20.833	3.8	2.4	3.3	6.24	3.32	0.03	2.95	58.2	3
6.450	21.161	3.9	2.5	3.4	7.09	3.30	0.08	2.97	57.4	3
6.550	21.489	3.6	2.4	3.2	6.35	3.69	0.10	3.04	61.3	3
6.650	21.817	3.3	2.3	3.1	5.58	3.75	0.11	3.09	64.4	3
6.750	22.145	4.2	2.7	3.5	7.59	3.45	0.09	2.93	54.1	4
6.850	22.473	3.1	2.0	2.9	5.30	2.94	0.14	3.14	68.5	3
6.950	22.802	3.6	2.6	3.3	6.70	3.90	0.11	3.06	63.2	3
7.050	23.130	4.8	3.3	4.3	9.50	3.86	0.16	3.27	70.5	3
7.150	23.458	1.7	2.6	2.1	6.10	2.10	0.12	3.19	65.5	3
7.250	23.786	3.0	2.6	3.2	6.15	3.14	0.14	3.13	66.7	3
7.350	24.114	3.7	2.7	3.3	6.31	3.19	0.16	3.08	64.3	3
7.450	24.442	3.7	2.6	3.2	6.16	3.04	0.15	3.07	64.5	3
7.550	24.770	5.6	3.2	4.7	7.75	3.09	0.13	3.11	59.7	3
7.650	25.098	6.6	4.4	5.9	12.19	2.90	0.06	2.91	52.5	4
7.750	25.427	4.8	3.4	4.9	8.31	2.92	0.00	3.05	62.4	3
7.850	25.755	4.1	3.2	4.2	10.60	1.63	0.01	2.82	47.6	4
7.950	26.083	6.3	4.5	5.9	21.34	2.66	0.01	2.86	51.5	4
8.050	26.411	13.6	10.2	13.0	39.67	1.64	0.01	2.64	34.7	5
8.150	26.739	19.5	17.4	21.8	78.14	1.15	0.00	2.82	31.5	5
8.250	27.067	26.5	23.3	29.7	105.65	1.42	0.00	2.84	32.4	5
8.350	27.395	22.5	16.5	18.0	65.55	1.91	0.00	2.72	15.6	5
8.450	27.723	11.3	7.4	8.5	22.01	3.45	-0.01	2.79	43.7	4
8.550	28.051	6.1	4.2	5.4	10.53	2.31	-0.01	2.91	52.8	4
8.650	28.379	4.7	3.6	4.0	10.03	1.33	-0.01	2.81	44.6	4
8.750	28.707	5.1	4.2	4.8	12.45	1.19	0.01	2.74	42.4	4
8.850	29.035	5.9	5.0	5.6	13.44	1.11	0.01	2.75	43.2	4
8.950	29.363	4.9	3.9	4.4	10.12	1.23	-0.01	2.99	44.5	4
9.050	29.691	10.3	8.1	9.7	37.69	1.59	0.01	2.43	27.4	5
9.150	30.019	14.8	11.3	13.4	41.22	1.31	0.01	2.25	20.5	5

Run 33 05-05CE-1150-5673
CPT File: T01CE06A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Ni (Bq/kg)	Col-20 U (Bq/kg)	Col-23 Ni (Bq/kg)	Col-24 Qs	Col-25 Fr (%)	Col-26 Qp	Col-27 Ic	Col-28 SC (%)	Col-29 Ic(Zone (Zone
9.250	30.347	15.8	9.8	9.2	51.52	2.46	0.00	2.51	52.8	5
9.350	30.675	22.9	18.4	19.7	86.13	0.56	0.00	1.80	4.3	4
9.450	31.004	24.3	24.8	23.1	112.59	0.05	0.00	1.72	4.6	5
9.550	33.332	26.3	26.5	26.5	132.05	0.59	0.00	1.64	5.1	5
9.650	31.660	25.0	24.1	31.5	162.48	0.51	0.00	1.53	3.0	6
9.750	31.988	24.9	23.8	31.1	162.46	0.46	0.00	1.49	2.7	6
9.850	32.316	27.4	27.5	26.3	126.69	0.51	0.00	1.61	4.6	6
9.950	32.644	19.7	18.7	17.0	72.03	1.22	0.00	2.01	14.0	6
10.050	32.972	16.3	15.2	12.0	42.93	2.06	0.01	2.31	24.1	5
10.150	33.300	23.8	21.5	9.5	21.51	5.26	-0.01	2.75	41.7	4
10.250	33.628	24.5	22.5	9.5	20.71	6.46	-0.01	2.84	46.1	4
10.350	33.956	27.3	26.5	29.8	82.78	6.67	-0.01	2.83	47.7	4
10.450	34.284	46.2	45.2	11.6	40.76	5.45	-0.01	2.72	42.6	4
10.550	34.612	39.2	43.2	10.8	36.24	5.10	-0.01	2.74	47.8	4
10.650	34.941	28.4	43.1	10.5	37.27	4.65	-0.01	2.68	35.3	4
10.750	35.269	35.3	33.4	8.4	30.55	6.34	-0.01	2.83	47.8	4
10.850	35.597	34.2	33.4	9.2	29.47	8.33	-0.01	2.92	54.1	4
10.950	35.925	36.4	37.2	9.6	31.29	7.58	-0.01	2.87	51.4	4
11.050	36.253	39.9	35.9	30.9	34.36	6.29	-0.01	2.87	48.6	4
11.150	36.581	38.4	37.7	10.1	32.94	4.97	-0.01	2.84	47.2	4
11.250	36.909	34.3	35.2	8.6	32.88	6.93	-0.01	2.85	49.0	7
11.350	37.237	37.1	37.2	9.6	31.52	6.31	-0.01	2.82	47.3	7
11.450	37.565	40.6	34.7	10.4	34.37	6.31	-0.01	2.79	45.7	4
11.550	37.893	40.8	34.5	10.4	34.55	5.43	-0.01	2.80	46.1	4
11.650	38.221	40.4	34.3	10.2	34.24	5.15	-0.01	2.79	45.5	4
11.750	38.549	41.4	35.3	10.8	36.58	5.47	-0.01	2.79	45.2	4
11.850	38.877	40.9	35.0	10.7	34.39	7.54	-0.01	2.85	49.1	4
11.950	39.205	41.7	35.1	10.4	35.15	6.78	-0.01	2.81	46.7	4
12.050	39.534	44.1	36.0	11.1	36.96	6.71	-0.01	2.80	45.5	4
12.150	39.862	40.0	36.7	10.2	35.24	7.07	-0.01	2.84	48.5	4
12.250	40.190	38.2	36.5	9.9	31.65	7.00	-0.01	2.87	50.5	4
12.350	40.518	38.2	36.5	9.9	31.53	7.04	-0.01	2.86	50.5	4
12.450	40.846	36.9	36.2	9.6	30.27	7.72	-0.01	2.90	51.5	4
12.550	41.174	37.9	36.1	9.6	30.97	7.15	-0.01	2.87	50.1	4
12.650	41.502	38.6	36.5	9.8	31.38	6.94	-0.01	2.85	49.1	4
12.750	41.830	42.6	36.7	10.6	34.91	6.71	-0.01	2.81	46.8	4
12.850	42.158	44.1	36.2	10.8	36.26	6.66	0.01	2.80	46.9	4
12.950	42.486	42.1	35.4	10.3	35.10	6.22	0.01	2.79	46.6	4
13.050	42.814	43.0	35.9	10.5	34.96	6.66	-0.01	2.80	46.3	4
13.150	43.143	41.4	35.6	10.2	35.18	5.63	-0.01	2.74	42.1	4
13.250	43.471	49.6	37.4	11.5	40.31	5.61	0.01	2.79	49.5	4
13.350	43.799	27.1	33.6	19.6	72.56	1.01	0.01	2.14	27.2	5
13.450	44.127	22.5	26.9	22.1	92.19	0.39	-0.01	2.10	8.2	6
13.550	44.455	22.1	26.5	21.7	90.46	0.04	-0.01	2.09	7.6	6
13.650	44.783	21.2	25.7	21.5	89.65	0.08	-0.01	2.07	6.5	6
13.750	45.111	21.5	26.5	21.6	90.01	0.07	-0.01	2.04	9.0	6
13.850	45.439	22.6	27.6	22.4	93.95	0.05	-0.01	2.02	9.5	6
13.950	45.767	25.6	30.8	24.3	124.23	0.00	0.00	1.96	7.2	5
14.050	46.095	23.4	25.3	22.4	119.10	0.87	0.00	1.94	5.5	6
14.150	46.423	23.2	40.3	22.4	134.78	1.05	0.00	1.92	7.4	6
14.250	46.751	24.0	41.7	23.4	137.65	1.20	0.00	1.89	7.9	6
14.350	47.079	30.0	36.6	25.4	133.47	1.04	0.00	1.78	7.8	5
14.450	47.408	27.2	32.3	24.7	139.16	0.64	0.00	1.68	5.7	6
14.550	47.736	24.2	28.7	22.8	96.68	0.50	0.00	1.46	5.2	6
14.650	48.064	27.9	33.1	18.3	75.83	0.86	0.01	1.10	10.1	6
14.750	48.392	27.4	25.5	22.6	90.62	1.96	-0.02	0.31	27.8	5
14.850	48.720	27.4	26.3	22.8	86.64	1.26	0.00	1.41	13.2	5
14.950	49.048	26.8	26.1	26.6	101.94	1.03	0.00	1.31	8.9	5
15.050	49.376	32.1	27.5	21.5	75.44	2.01	-0.02	2.13	19.3	5
15.150	49.704	17.7	15.8	11.5	71.53	3.01	-0.03	2.49	30.1	5

Run No: 03 0100-1233 5621
DAT File: 7210P06A.DAT

Col-01 Depth m	Col-02 Depth ft	Col-21 Sh(Hor) lb/ft	Col-22 Sh(Ver) lb/ft	Col-23 Sh(Deg)lb lb/ft	Col-24 Qs	Col-25 Fr %	Col-26 Sq	Col-27 Sc	Col-28 FC %	Col-29 Sc Done (None)
15.050	50.037	12.4	12.0	6.8	21.69	3.38	-0.02	2.75	42.1	4
15.150	50.367	14.1	13.4	7.6	25.75	3.47	-0.01	2.70	40.3	4
15.450	50.698	15.3	13.3	7.8	27.58	3.58	-0.01	2.70	40.2	4
15.350	51.015	16.3	11.4	6.3	20.46	4.25	-0.02	2.84	46.2	4
15.650	51.345	16.9	9.5	5.2	16.80	4.61	-0.02	2.94	54.7	4
15.750	51.673	20.4	9.3	5.0	14.34	5.68	-0.02	3.05	50.5	5
15.850	52.001	20.6	9.0	5.0	14.68	5.76	-0.02	3.06	51.4	5
15.950	52.329	24.0	10.8	5.9	17.08	5.99	-0.02	2.99	57.8	5
16.050	52.667	25.2	12.2	6.6	20.12	5.87	-0.02	2.96	54.7	4
16.150	52.985	22.4	14.1	7.6	23.59	6.73	-0.01	2.95	56.3	4
16.250	53.313	22.4	16.9	9.3	31.12	4.01	-0.01	2.67	38.8	4
16.350	53.661	15.8	11.7	10.4	29.01	2.67	-0.01	2.49	30.3	5
16.450	53.969	15.5	12.5	6.6	22.27	3.81	-0.01	2.78	45.0	4
16.550	54.317	19.1	16.8	12.5	35.56	3.17	-0.01	2.47	29.5	5
16.650	54.625	25.1	23.5	17.7	50.25	2.35	-0.01	2.25	20.6	5
16.750	54.953	25.2	23.7	17.3	56.31	2.44	-0.01	2.29	20.9	5
16.850	55.281	25.4	22.4	16.3	52.36	2.51	-0.01	2.33	22.0	5
16.950	55.610	24.5	21.8	17.2	54.47	2.32	-0.01	2.21	20.2	5
17.050	55.938	23.7	22.6	16.3	52.41	2.19	-0.01	2.27	21.4	5
17.150	56.266	34.9	29.7	15.4	54.94	3.74	-0.01	1.93	11.0	5
17.250	56.594	36.2	27.6	20.5	71.87	3.10	0.00	1.93	12.6	5
17.350	56.922	27.5	56.5	27.0	102.76	0.91	0.00	1.77	7.5	5
17.450	57.250	41.2	49.6	29.4	115.51	0.91	0.00	1.61	5.5	5
17.550	57.578	27.1	36.3	26.7	100.17	0.93	0.00	1.60	8.1	5
17.650	17.906	20.7	24.3	17.3	60.36	1.26	0.01	2.04	23.9	6
17.750	58.234	14.8	15.1	11.1	31.61	2.13	-0.01	2.52	36.7	5
17.850	58.563	8.8	5.5	6.6	24.71	2.82	0.02	2.86	48.9	4
17.950	58.850	8.3	8.9	6.2	23.36	2.89	0.02	2.82	46.9	4
18.050	59.218	8.4	8.6	6.2	23.56	2.15	0.02	2.82	46.9	4
18.150	59.547	11.3	11.6	8.3	29.24	2.19	-0.01	2.78	41.0	4
18.250	59.875	26.3	20.1	14.6	15.58	3.44	0.00	2.12	27.6	5
18.350	60.203	24.5	22.4	16.2	59.37	0.60	0.00	1.72	1.0	6
18.450	60.531	26.4	22.5	16.2	58.54	0.60	0.00	1.85	2.1	6
18.550	60.859	25.6	21.6	15.6	56.54	0.62	0.00	1.83	2.7	6
18.650	61.187	14.9	13.8	14.2	49.59	0.53	0.00	1.81	5.7	6
18.750	61.515	23.5	15.0	13.2	47.61	0.46	0.00	1.81	5.0	6
18.850	61.843	14.9	13.6	15.5	49.26	0.48	-0.01	1.81	5.0	6
18.950	62.171	16.5	22.6	16.1	57.71	0.49	0.00	1.79	5.0	5
19.050	62.499	20.6	21.9	19.8	71.62	0.48	0.00	1.75	5.2	6
19.150	62.827	20.1	21.6	19.1	71.20	0.47	0.00	1.75	7.1	6
19.250	63.155	21.0	21.4	20.1	74.14	0.51	0.00	1.72	6.3	6
19.350	63.483	20.9	21.6	20.1	73.56	0.55	0.00	1.71	6.7	6
19.450	63.812	18.0	21.2	17.7	62.94	0.56	0.00	1.79	8.0	6
19.550	64.140	18.3	21.2	19.7	67.73	0.47	0.00	1.75	5.0	6
19.650	64.468	18.0	24.7	17.3	67.75	0.41	0.00	1.72	5.0	6
19.750	64.796	19.5	23.8	16.6	60.04	0.35	0.00	1.72	5.0	6
19.850	65.124	26.1	20.0	16.2	53.45	0.62	0.00	1.81	8.6	6
19.950	65.452	24.9	30.6	21.1	83.56	0.29	0.00	1.68	2.5	6
20.050	65.780	19.2	26.1	15.2	66.42	0.39	-0.01	1.68	5.0	6
20.150	66.108	10.4	13.5	9.6	27.16	1.08	-0.02	2.20	33.2	5
20.250	66.435	12.6	13.0	9.9	29.19	2.11	-0.02	2.66	38.4	4
20.350	66.763	8.1	10.0	6.1	19.26	1.43	-0.01	2.67	39.6	4
20.450	67.092	8.8	11.2	6.8	15.32	1.92	0.00	2.70	40.5	4
20.550	67.420	10.2	11.1	8.0	16.15	1.24	0.01	2.55	43.6	4
20.650	67.749	17.3	12.7	8.4	16.92	4.83	0.01	2.91	52.6	4
20.750	68.077	15.5	13.8	10.0	18.06	5.17	0.01	2.94	54.5	4
20.850	68.405	15.2	13.4	9.9	17.06	5.33	0.01	2.97	54.6	5
20.950	68.733	23.6	17.9	9.0	15.36	8.62	0.01	3.00	61.6	5
21.050	69.062	16.0	22.1	9.1	14.54	5.29	0.01	3.01	59.0	5
21.150	69.389	17.2	21.0	9.4	16.12	5.35	0.01	2.99	57.6	5

Run No: 05-0308-1256 3621
PRT File: 0308P06A.COR

Col-01 Depth (ft)	Col-02 Depth (cm)	Col-21 N2(60) (m/hr)	Col-22 N2(60)cr (m/hr)	Col-23 N1(60)cs (N/cc)	Col-24 CI	Col-25 Fr (%)	Col-26 Sq	Col-27 Ic	Col-28 FC (%)	Col-29 Zone (Soil
21.250	69.717	14.2	13.6	5.7	17.36	4.43	0.02	2.93	51.9	4
21.300	70.046	14.3	13.7	5.7	18.25	4.38	0.01	3.05	51.6	4
21.450	70.373	13.5	13.6	5.5	17.12	5.09	0.04	2.95	47.1	4
21.550	70.701	12.5	12.2	4.9	13.58	6.42	0.05	3.09	54.5	3
21.650	71.029	12.9	12.4	5.0	14.61	5.41	0.03	3.02	50.5	3
21.750	71.357	13.7	12.7	5.1	14.65	6.13	0.07	3.06	52.5	3
21.850	71.685	14.2	13.0	5.2	14.60	6.38	0.07	3.06	52.5	3
21.950	72.014	14.8	13.2	5.3	15.13	6.25	0.06	3.05	52.2	3
22.050	72.342	15.3	13.6	5.5	15.78	6.27	0.06	3.04	51.1	3
22.150	72.670	16.2	14.0	5.6	16.06	6.67	0.06	3.05	51.9	3
22.250	72.998	22.2	12.7	4.9	11.27	7.67	0.06	3.24	69.5	3
22.350	73.326	19.6	11.3	4.5	11.56	6.08	0.06	3.16	69.8	3
22.450	73.654	23.3	13.0	4.6	13.05	5.71	0.10	3.07	64.6	3
22.550	73.982	15.0	11.2	4.1	14.51	5.01	0.07	2.96	55.5	3
22.650	74.310	27.1	15.9	6.8	21.72	5.49	0.05	2.98	52.2	4
22.750	74.636	27.5	27.1	6.9	21.92	5.31	0.05	2.97	50.3	4
22.850	74.966	20.7	13.6	6.2	19.06	5.45	0.10	2.94	54.3	4
22.950	75.294	28.0	14.8	5.8	17.02	6.35	0.10	3.01	59.5	3
23.050	75.622	26.1	14.1	5.5	15.71	6.62	0.09	3.06	62.5	3
23.150	75.951	27.1	14.5	5.6	16.79	6.48	0.11	2.94	57.9	3
23.250	76.279	28.1	14.9	5.8	17.08	6.87	0.07	2.95	56.3	3
23.350	76.607	27.6	14.6	5.6	16.62	6.78	0.06	3.00	58.3	3
23.450	76.935	28.6	15.1	5.8	17.26	6.94	0.09	2.99	58.2	3
23.550	77.263	28.4	14.9	5.8	16.87	6.98	0.13	3.02	60.0	3
23.650	77.591	26.5	13.8	5.0	14.67	6.66	0.15	3.06	61.7	3
23.750	77.919	25.2	12.9	4.8	13.97	6.30	0.17	3.03	60.6	3
23.850	78.247	27.3	13.9	5.2	15.25	6.93	0.17	3.00	58.8	3
23.950	78.576	25.8	13.2	5.0	15.23	6.22	0.15	3.05	61.8	3
24.050	78.904	25.5	13.0	5.2	15.06	5.96	0.11	3.04	61.1	3
24.150	79.232	22.9	12.9	4.7	13.35	5.95	0.14	3.09	64.1	3
24.250	79.560	24.3	11.7	4.2	12.05	6.02	0.10	3.05	62.2	3
24.350	79.887	19.8	11.3	4.2	11.13	6.44	0.18	3.05	62.2	3
24.435	80.216	19.2	11.4	4.0	10.75	6.01	0.21	3.15	63.4	3
24.550	80.544	19.0	11.5	4.0	11.75	5.61	0.22	3.13	61.4	3
24.650	80.872	16.8	12.5	4.5	12.55	5.55	0.20	3.05	56.1	3
24.750	81.200	22.0	12.9	4.9	12.33	6.35	0.19	3.12	60.5	3
24.850	81.528	27.9	14.9	5.6	15.65	6.84	0.17	3.02	55.6	3
24.950	81.856	10.1	16.1	3.9	17.76	3.72	0.16	2.91	56.7	3
25.050	82.184	29.1	15.1	5.7	17.05	6.75	0.16	2.99	57.8	3
25.150	82.512	35.5	15.9	6.8	18.29	7.64	0.25	2.90	51.9	4
25.250	82.840	29.0	15.3	5.5	14.61	7.11	0.19	2.93	54.8	3
25.350	83.168	28.6	15.1	5.7	14.52	7.14	0.20	3.03	57.7	3
25.450	83.496	27.5	14.7	5.6	14.14	6.92	0.26	3.04	57.4	3
25.550	83.824	27.1	14.5	5.5	13.93	6.73	0.20	3.05	58.9	3
25.650	84.153	25.4	14.4	5.3	14.49	5.18	0.02	3.09	52.7	3
25.750	84.481	24.7	13.3	4.6	13.26	5.15	0.02	3.04	51.2	3
25.850	84.809	25.4	13.3	4.6	13.15	5.14	0.03	3.04	51.5	3
25.950	85.137	25.5	13.9	4.7	13.42	5.29	0.04	3.04	51.5	3
26.050	85.465	16.5	14.1	4.7	14.43	4.81	0.05	3.00	54.8	3
26.150	85.793	22.7	13.4	4.6	13.64	5.77	0.06	3.03	65.3	3
26.250	86.121	16.6	13.9	3.9	10.41	6.53	0.09	3.20	72.6	3
26.350	86.449	17.1	13.4	3.8	9.45	7.01	0.09	3.24	75.2	3
26.450	86.777	16.6	13.4	3.8	9.55	6.93	0.10	3.13	71.2	3
26.550	87.105	18.9	13.7	3.8	10.82	6.61	0.06	3.03	63.9	3
26.650	87.433	22.7	14.4	3.9	9.36	7.62	0.00	3.17	70.4	3
26.750	87.761	20.5	12.9	4.1	11.13	5.81	0.01	3.11	61.0	3
26.850	88.089	21.5	13.6	4.4	11.90	5.84	0.01	3.07	61.3	3
26.950	88.418	16.5	13.5	4.1	11.35	5.25	0.02	3.11	68.0	3
27.050	88.746	17.3	13.2	4.6	13.62	4.51	0.04	3.02	52.4	3
27.150	89.074	12.7	13.6	4.6	16.07	3.96	0.06	2.95	55.2	4

Sum No: 55-0308-1258-5621
CPT File: 721C2[illegible].COR

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-21 N(60) (b/ft)	Col-22 N(60)Ic (b/ft)	Col-23 N(60)Ic (b/ft)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 PS (%)	Col-29 IsZone (Zone)
27.250	89.402	14.7	12.7	4.1	11.47	5.15	0.29	3.09	64.1	3
27.350	89.730	23.0	13.7	4.5	12.52	5.96	0.23	3.09	64.5	3
27.450	90.058	22.5	13.9	4.5	12.21	1.55	0.26	3.14	68.1	3
27.550	90.385	18.4	15.8	5.3	15.41	5.60	0.24	3.02	69.6	3
27.650	90.714	32.5	13.2	6.1	18.39	6.11	0.13	2.98	57.2	3
27.750	91.042	15.7	17.5	5.9	18.98	4.25	0.13	2.87	53.1	4
27.850	91.370	20.4	16.9	5.5	17.12	5.17	0.27	2.96	55.6	3
27.950	91.698	28.3	16.6	5.5	16.10	5.20	0.15	3.03	60.4	3
28.050	92.021	20.5	17.3	5.8	17.20	5.69	0.22	2.98	57.3	3
28.150	92.355	19.1	16.9	5.6	16.60	5.56	0.22	2.99	57.1	3
28.250	92.681	12.5	14.8	4.8	15.91	2.44	0.23	2.52	47.1	4

Interpretation Output - Release 1.32 Rev. A - Build 5 Format: NGF Imperial
Sch No.: 05-0108-1258-5021
Job No: 05-721
Client: DeSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT 55 C06A
Location: Pigeon Point
Cone: 20 TSF ASTM
CPT Date: 05/01/05
CPT Time: 11:01
CPT File: 721CP06A.COR
Sounding (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Unit: Table (m): 1.97 (ft) 1.0
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Su Nkt used: 15.00 Su/P' limit: 0.33
Su Method: Jamiolkowski - All Sands
Slope Parameter N: 1.20
Used Unit Weights Assigned to Soil Zones
Ic6010 Calculated using Qtn
Ic6Qtn Calculated using Qtnorm

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Qc (ksf)	Col-31 Fs (deg)	Col-32 State Par	Col-33 Fs/Qt	Col-34 Young E (ksf)	Col-35 Su (ksf)	Col 36 OCR
0.050	0.164	9999.0	-9999.0	-9999.0	-3993.0	-9999.0	0.434	10.0
0.150	0.492	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.690	10.0
0.250	0.820	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.747	10.0
0.350	1.148	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.478	10.0
0.450	1.476	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.727	10.0
0.550	1.804	9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.494	10.0
0.650	2.133	9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.384	10.0
0.750	2.461	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.363	10.0
0.850	2.789	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.357	10.0
0.950	3.117	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.315	10.0
1.050	3.445	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.450	10.0
1.150	3.773	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.386	10.0
1.250	4.101	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	2.436	10.0
1.350	4.429	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	-9999.0
1.450	4.757	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.484	10.0
1.550	5.085	42.7	42.0	-0.22	3.494	70.3	1.512	10.0
1.650	5.413	63.1	44.0	-0.21	2.761	107.9	-9999.0	-9999.0
1.750	5.741	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.444	8.2
1.850	6.069	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.376	5.4
1.950	6.398	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.215	2.2
2.050	6.726	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.122	1.1
2.150	7.054	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.168	1.1
2.250	7.382	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.206	1.4
2.350	7.710	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.144	1.1
2.450	8.038	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.115	1.3
2.550	8.366	38.0	35.0	-0.05	-9999.0	-9999.0	1.142	10.0
2.650	8.694	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.624	6.7
2.750	9.022	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.542	5.1
2.850	9.350	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.714	7.1
2.950	9.678	-9999.0	-9999.0	9999.0	9999.0	-9999.0	1.165	10.0
3.050	10.006	38.7	38.0	0.16	-9999.0	-9999.0	1.905	10.0
3.150	10.335	37.1	38.0	-0.22	1.477	96.3	1.804	10.0

Run No. 99-0108-1258-5121
CPT File: 7717P96A.COR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-10 Qt (MPa)	Col-11 Fs (kPa)	Col-12 Shear Vel	Col-13 Rf/Qt	Col-14 Young E (psi)	Col-15 Ic (ref)	Col 16 OCR
4.250	13.943	51.4	49.0	-0.27	2.719	124.1	2.930	19.0
4.300	13.991	-9999.9	-9999.0	-9999.0	-9999.0	-9999.0	0.870	7.8
4.450	14.339	56.9	42.7	-0.27	3.693	143.6	-9999.0	-9999.0
4.500	14.667	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.529	19.0
4.600	15.076	55.6	42.0	-0.32	3.546	141.1	3.667	19.0
4.750	15.583	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.149	10.0
4.850	15.911	-9999.0	9999.0	9999.0	-9999.0	-9999.0	1.568	10.0
4.950	16.240	45.7	28.0	-0.16	3.555	103.7	3.879	20.0
5.000	16.404	45.9	28.0	-0.16	3.575	104.5	3.903	20.0
5.100	16.732	54.6	40.0	-0.20	3.651	147.1	-9999.0	-9999.0
5.200	17.060	54.0	40.0	-0.24	3.677	148.1	-9999.0	-9999.0
5.300	17.388	53.0	36.0	-0.24	3.333	120.3	1.746	10.0
5.400	17.717	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.758	4.4
5.500	18.045	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.590	10.0
5.650	18.537	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.921	10.0
5.750	18.865	44.7	28.0	-0.19	3.085	128.5	2.714	10.0
5.850	19.193	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.033	10.0
5.950	19.520	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.693	10.0
6.050	19.848	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.442	10.0
6.150	20.177	56.7	42.0	-0.26	3.774	154.1	9999.0	-9999.0
6.250	20.505	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	-9999.0
6.350	20.833	51.6	46.0	-0.34	-9999.0	-9999.0	-9999.0	-9999.0
6.450	21.161	79.2	44.0	-2.46	1.715	217.1	0.163	10.0
6.500	21.325	56.4	40.0	-0.26	3.426	156.4	9999.0	-9999.0
6.600	21.654	45.1	39.0	-0.22	3.964	136.0	2.569	10.0
6.700	21.982	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.376	1.4
6.850	22.474	81.4	44.0	-0.21	1.892	190.3	-9999.0	-9999.0
6.950	22.802	46.4	38.0	-0.20	3.021	141.4	3.044	10.0
7.050	23.130	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.261	6.7
7.150	23.458	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.366	1.3
7.250	23.787	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.325	1.2
7.350	24.115	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.432	1.6
7.450	24.443	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.445	1.6
7.550	24.772	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.396	1.4
7.650	25.100	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.361	1.3
7.750	25.428	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.455	1.9
7.850	25.757	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.345	1.2
7.950	26.085	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.449	1.5
8.050	26.413	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.305	1.0
8.150	26.742	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.421	1.4
8.250	27.070	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.424	1.4
8.350	27.398	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.429	1.4
8.450	27.727	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.424	1.4
8.550	28.055	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.501	1.7
8.650	28.383	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.441	1.4
8.750	28.712	9999.0	9999.0	-9999.0	9999.0	9999.0	0.563	2.0
8.850	29.040	30.0	30.0	0.00	9999.0	9999.0	0.747	2.7
8.900	29.204	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.580	5.4
9.000	29.532	42.2	38.0	-0.16	4.296	146.5	-9999.0	-9999.0
9.150	30.024	41.5	42.0	-0.18	5.164	206.1	-9999.0	9999.0
9.250	30.353	50.9	42.0	-0.23	2.146	252.0	-9999.0	9999.0
9.350	30.681	57.2	60.0	-0.22	2.544	152.6	-9999.0	-9999.0
9.450	31.009	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.638	8.2
9.500	31.173	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.196	2.8
9.600	31.501	30.0	30.0	0.01	-9999.0	-9999.0	0.156	2.6
9.700	31.830	30.0	30.0	0.00	-9999.0	-9999.0	0.872	1.1
9.850	32.322	30.0	30.0	0.02	9999.0	9999.0	0.814	2.8
9.950	32.650	30.0	30.0	0.01	-9999.0	-9999.0	0.797	2.6
10.000	32.815	53.5	36.0	-0.10	3.809	129.5	-9999.0	-9999.0
10.100	33.143	44.6	38.0	-0.13	3.167	160.0	-9999.0	-9999.0

Run No: CV-C103-3758-5622
CPT File: 0103CP05A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Qt (t)	Col-11 Fst (deg)	Col-12 Strain Rate	Col-13 Ic/qc	Col-14 Young's (psi)	Col-15 Su (psi)	Col-16 OCR
9.250	30.347	37.3	36.0	-0.17	3.681	340.8	3.691	16.0
9.350	30.676	64.8	43.0	-0.12	2.797	335.8	-9999.0	-9999.0
9.450	31.004	93.1	43.0	-0.16	2.891	387.4	-9999.0	-9999.0
9.550	31.332	77.1	44.0	-0.17	1.969	324.1	-9999.0	-9999.0
9.650	31.660	88.4	44.0	-0.17	1.930	330.0	-9999.0	-9999.0
9.750	31.988	81.3	44.0	-0.16	1.936	330.9	-9999.0	-9999.0
9.850	32.316	76.5	44.0	-0.15	2.014	321.1	-9999.0	-9999.0
9.950	32.644	67.1	43.0	-0.17	2.426	221.9	-9999.0	-9999.0
10.050	32.972	47.4	38.0	-0.18	3.052	175.4	9999.0	-9999.0
10.150	33.300	-9999.0	-9999.0	9999.0	-9999.0	9999.0	0.677	15.0
10.250	33.628	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.690	15.0
10.350	33.956	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.719	15.0
10.450	34.284	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.826	15.0
10.550	34.612	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.962	15.0
10.650	34.941	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.161	15.0
10.750	35.269	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.194	15.0
10.850	35.597	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.521	15.0
10.950	35.925	-9999.0	9999.0	9999.0	-9999.0	-9999.0	2.702	15.0
11.050	36.253	-9999.0	9999.0	9999.0	-9999.0	-9999.0	3.084	15.0
11.150	36.581	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.579	15.0
11.250	36.909	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.509	15.0
11.350	37.237	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.581	15.0
11.450	37.565	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	3.177	15.0
11.550	37.893	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.202	15.0
11.650	38.221	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.184	15.0
11.750	38.549	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.421	15.0
11.850	38.877	9999.0	9999.0	-9999.0	-9999.0	-9999.0	4.734	15.0
11.950	39.206	9999.0	9999.0	-9999.0	-9999.0	-9999.0	5.323	15.0
12.050	39.534	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.611	15.0
12.150	39.862	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.180	15.0
12.250	40.190	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	5.064	15.0
12.350	40.518	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	5.057	15.0
12.450	40.846	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	5.044	15.0
12.550	41.174	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.040	15.0
12.650	41.502	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.108	15.0
12.750	41.830	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.457	15.0
12.850	42.158	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.595	15.0
12.950	42.486	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.426	15.0
13.050	42.814	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.519	15.0
13.150	43.143	-9999.0	-9999.0	-9999.0	9999.0	9999.0	5.554	15.0
13.250	43.471	47.5	38.0	-0.42	3.462	221.3	9999.0	9999.0
13.350	43.799	64.8	40.0	-0.22	2.364	269.7	-9999.0	-9999.0
13.450	44.127	71.2	42.0	-0.16	2.193	319.5	-9999.0	-9999.0
13.550	44.455	70.7	42.5	-0.15	2.236	317.2	-9999.0	-9999.0
13.650	44.783	63.5	42.0	-0.15	2.239	309.3	-9999.0	-9999.0
13.750	45.111	70.0	42.0	-0.16	2.227	314.4	-9999.0	-9999.0
13.850	45.439	71.4	42.0	-0.17	2.197	325.6	-9999.0	-9999.0
13.950	45.767	75.0	42.0	-0.17	2.110	355.4	9999.0	9999.0
14.050	46.095	79.0	42.0	0.10	2.017	392.9	-9999.0	-9999.0
14.150	46.423	87.4	44.0	-0.22	1.964	442.7	-9999.0	-9999.0
14.250	46.751	83.1	44.0	-0.24	1.963	441.7	-9999.0	-9999.0
14.350	47.079	79.6	42.0	-0.21	2.011	402.2	-9999.0	-9999.0
14.450	47.408	75.7	42.0	-0.20	2.075	378.5	-9999.0	-9999.0
14.550	47.736	72.4	42.0	-0.19	2.155	361.5	-9999.0	-9999.0
14.650	48.064	66.7	40.0	-0.24	2.385	288.3	-9999.0	9999.0
14.750	48.392	69.2	38.0	0.17	3.068	214.9	-9999.0	-9999.0
14.850	48.720	70.6	42.0	0.20	2.234	315.1	-9999.0	-9999.0
14.950	49.048	76.3	40.0	-0.20	2.095	381.8	-9999.0	-9999.0
15.050	49.376	66.8	40.0	-0.24	2.316	305.8	-9999.0	-9999.0
15.150	49.704	64.4	38.0	-0.20	3.323	200.6	5.830	10.5

Run No: 05-0304-1738-9723
DIF File: 721CP04A.COP

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dz (1)	Col-31 Phi (deg)	Col-32 Space Par	Col-33 Dn/qt	Col-34 YoungE (ksi)	Col-35 Sw (cpsi)	Col-36 DEN
15.350	50.312	36.9	36.9	-0.17	-9999.0	-9999.0	2.697	9.1
15.300	50.150	38.5	36.0	0.20	9999.0	-9999.0	3.035	10.0
15.450	50.688	-9999.0	9999.0	9999.0	-9999.0	-9999.0	3.193	10.0
15.550	51.016	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.372	9.3
15.650	51.345	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.866	8.0
15.750	51.673	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.888	8.3
15.850	52.001	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.719	8.0
15.950	52.329	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.027	8.5
16.050	52.657	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.422	9.1
16.150	52.985	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.817	9.2
16.250	53.313	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.365	10.0
16.350	53.642	41.3	37.0	-0.26	1.927	196.6	3.505	10.0
16.450	53.969	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.705	9.4
16.550	54.297	47.0	36.0	-0.21	3.705	378.6	4.535	10.0
16.650	54.625	50.7	40.0	-0.22	2.594	276.6	3509.0	9999.0
16.750	54.953	59.5	40.0	-0.25	2.531	278.0	-9199.0	9999.0
16.850	55.281	57.5	40.0	-0.22	2.675	267.7	-9999.0	-9999.0
16.950	55.610	50.2	40.0	-0.21	2.622	275.0	-9999.0	9999.0
17.050	55.938	58.5	40.0	0.22	2.668	270.8	-9999.0	-9999.0
17.150	56.266	59.5	40.0	0.11	2.615	279.2	-9999.0	9999.0
17.250	56.594	56.9	40.0	-0.18	2.358	329.2	-9999.0	9999.0
17.350	56.922	77.1	42.0	-0.18	2.155	428.4	-9999.0	-9999.0
17.450	57.250	80.5	42.0	0.17	2.022	455.0	-9999.0	-9999.0
17.550	57.578	76.6	42.0	-0.15	2.120	415.9	-9999.0	-9999.0
17.650	57.906	62.6	42.0	-0.15	2.515	302.0	-9999.0	-9999.0
17.750	58.234	44.7	36.0	-0.15	3.364	213.0	-9999.0	-9999.0
17.850	58.562	32.0	32.0	-0.09	-9999.0	-9999.0	1.915	8.4
17.950	58.890	30.0	32.0	-0.08	-9999.0	-9999.0	1.941	8.8
18.050	59.219	30.0	32.0	-0.06	-9999.0	-9999.0	1.816	8.5
18.150	59.547	31.7	34.0	-0.14	-9999.0	-9999.0	2.536	9.1
18.250	59.875	35.3	36.0	-0.15	2.814	261.8	-9999.0	9999.0
18.350	60.203	42.5	40.0	-0.07	2.627	308.5	-9999.0	-9999.0
18.450	60.531	42.3	40.0	-0.06	2.535	326.3	9999.0	9999.0
18.550	60.859	40.2	40.0	-0.08	2.581	319.3	-9999.0	9999.0
18.650	61.187	37.7	36.0	-0.07	2.714	291.1	-9999.0	-9999.0
18.750	61.515	36.4	36.0	-0.05	2.767	277.1	-9999.0	-9999.0
18.850	61.843	37.4	36.0	-0.05	2.722	284.4	-9999.0	-9999.0
18.950	62.171	42.1	40.0	0.06	2.581	312.7	-9999.0	-9999.0
19.050	62.499	49.0	40.0	-0.10	2.342	356.0	-9999.0	-9999.0
19.150	62.827	48.1	40.0	0.11	2.369	359.1	-9999.0	-9999.0
19.250	63.155	49.3	40.0	0.10	2.319	370.4	-9999.0	-9999.0
19.350	63.483	49.1	40.0	0.11	2.345	370.5	-9999.0	-9999.0
19.450	63.812	54.9	40.0	-0.10	2.610	326.9	-9999.0	-9999.0
19.550	64.140	55.3	40.0	-0.08	2.459	341.2	-9999.0	-9999.0
19.650	64.468	54.9	40.0	-0.07	2.472	339.5	-9999.0	-9999.0
19.750	64.796	51.6	40.0	-0.06	2.531	332.0	-9999.0	9999.0
19.850	65.124	55.4	40.0	-0.11	2.452	345.3	-9999.0	9999.0
19.950	65.452	73.1	42.0	-0.04	2.249	414.5	-9999.0	-9999.0
20.050	65.780	66.8	40.0	0.01	2.424	358.6	-9999.0	-9999.0
20.150	66.108	42.6	36.0	0.01	3.340	226.2	-9999.0	-9999.0
20.250	66.436	34.7	34.0	-0.15	-9999.0	-9999.0	2.975	9.3
20.350	66.764	32.0	32.0	-0.04	-9999.0	-9999.0	-9999.0	-9999.0
20.450	67.092	32.0	32.0	-0.07	-9999.0	-9999.0	-9999.0	-9999.0
20.550	67.420	32.0	32.0	-0.11	-9999.0	-9999.0	2.386	9.1
20.650	67.749	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.609	9.5
20.750	68.077	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.687	9.6
20.850	68.405	9999.0	9999.0	9999.0	9999.0	-9999.0	2.543	9.4
20.950	68.733	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.182	8.8
21.050	69.061	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.249	8.8
21.150	69.389	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.636	9.1

Run No: CA-2108-1158-5621
CPT File: 2108P048.CPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-13 Dr (%)	Col-31 Phi (deg)	Col-32 State Par	Col-14 Su/qc	Col-44 YoungE (tsf)	Col 36 Su (tsf)	Col-36 OCR
21.250	69.717	9995.0	-9995.0	9950.0	9959.0	9599.0	2.708	5.5
21.350	70.045	-9995.0	-9995.0	-9990.0	-9959.0	-9599.0	2.744	5.5
21.450	70.373	-9995.0	9995.0	-9959.0	-9999.0	-9999.0	2.615	5.5
21.550	70.701	-1993.0	-1993.0	-9199.0	-1999.0	-9199.0	2.091	4.5
21.650	71.029	-1995.0	-1995.0	-9599.0	-1999.0	-9599.0	2.268	4.6
21.750	71.357	-1995.0	-1995.0	-9959.0	-5959.0	-9599.0	2.331	4.7
21.850	71.685	-9999.0	-9995.0	-9959.0	-9995.0	-9999.0	2.393	4.7
21.950	72.014	-9993.0	-5995.0	-9959.0	-9995.0	-9999.0	2.353	4.6
22.050	72.342	-9993.0	-9995.0	-9599.0	-5959.0	-9599.0	2.461	4.9
22.150	72.670	-9999.0	-5995.0	9599.0	-5995.0	9959.0	2.515	5.1
22.250	72.998	-9999.0	-9999.0	-9959.0	-5995.0	-9599.0	2.082	3.3
22.350	73.326	-9995.0	-5995.0	-9959.0	-5999.0	-9599.0	1.523	3.1
22.450	73.654	-5995.0	-5995.0	9599.0	9959.0	9591.0	2.066	3.7
22.550	73.982	9995.0	5995.0	9599.0	9959.0	9599.0	2.937	6.3
22.650	74.310	-5995.0	-5995.0	-9599.0	-9959.0	-9599.0	3.375	7.2
22.750	74.638	-5995.0	-5995.0	-9599.0	-9999.0	-9999.0	3.604	8.2
22.850	74.966	9999.0	9995.0	-9999.0	-9999.0	9991.0	3.058	6.5
22.950	75.294	-9959.0	-5995.0	9999.0	9599.0	9995.0	2.710	5.5
23.050	75.622	-9959.0	-5959.0	-9999.0	-9599.0	-9999.0	2.637	4.9
23.150	75.951	-9959.0	-9959.0	-9995.0	-9599.0	-9999.0	2.715	5.4
23.250	76.279	-9959.0	-9999.0	-5995.0	-9599.0	-9999.0	2.776	5.6
23.350	76.607	-9959.0	-9959.0	9999.0	9599.0	9999.0	2.755	5.3
23.450	76.935	-9999.0	-9959.0	5995.0	9599.0	9999.0	2.824	5.6
23.550	77.261	-9959.0	-9959.0	5995.0	-9599.0	-9999.0	2.836	5.6
23.650	77.591	-9959.0	-5959.0	-5995.0	-9599.0	-9999.0	2.365	4.8
23.750	77.919	-9959.0	-9959.0	-5995.0	-9599.0	-9999.0	2.320	4.1
23.850	78.247	-9959.0	9959.0	-5995.0	-9599.0	-9999.0	2.536	4.7
23.950	78.575	9959.0	-9959.0	-9995.0	-9599.0	-9999.0	2.512	4.7
24.050	78.903	-9959.0	-9959.0	-1994.0	-9199.0	-9999.0	2.521	4.6
24.150	79.231	-5959.0	-5959.0	-5995.0	-9599.0	-9997.0	2.220	3.8
24.250	79.559	5995.0	9959.0	-5995.0	-9599.0	-9995.0	2.025	3.5
24.350	79.887	5995.0	5995.0	-5995.0	-9599.0	-9995.0	1.910	3.0
24.450	80.216	-5999.0	5995.0	-5991.0	-9199.0	-9997.0	1.819	2.8
24.550	80.544	-5999.0	5995.0	-5991.0	-9199.0	-9997.0	1.871	2.9
24.650	80.872	5999.0	5995.0	-4991.0	-9199.0	-9995.0	2.131	3.5
24.750	81.200	-9959.0	9959.0	-5992.0	-9599.0	-9999.0	2.140	3.5
24.850	81.528	-5995.0	-5959.0	-5992.0	-9599.0	-9999.0	2.936	5.0
24.950	81.856	-9959.0	-9959.0	-5992.0	-1599.0	-9959.0	3.046	5.9
25.050	82.184	-9995.0	-5959.0	-5999.0	-9599.0	-9999.0	2.942	5.5
25.150	82.512	9959.0	-9959.0	-5999.0	-9599.0	-9999.0	2.154	4.2
25.250	82.840	9959.0	-9959.0	-5999.0	-5599.0	-9959.0	2.865	5.3
25.350	83.168	-9959.0	-9959.0	-5992.0	-9599.0	-9999.0	2.877	5.3
25.450	83.496	-9999.0	-9959.0	-5995.0	-5599.0	-9999.0	2.819	5.1
25.550	83.824	9959.0	-9959.0	-5995.0	-9599.0	-9959.0	2.736	4.9
25.650	84.153	9999.0	9959.0	-5992.0	-9599.0	-9999.0	2.546	4.3
25.750	84.481	-9959.0	-9959.0	-5995.0	-9599.0	-9999.0	2.337	3.8
25.850	84.809	-5992.0	-9999.0	-9599.0	-9959.0	-9999.0	2.327	3.7
25.950	85.137	-1995.0	-5995.0	9599.0	-9949.0	-9999.0	2.360	3.9
26.050	85.465	9993.0	9995.0	-9199.0	-9959.0	-9995.0	2.562	4.2
26.150	85.793	-9999.0	-5991.0	-9599.0	-9959.0	-9999.0	2.254	3.5
26.250	86.121	-9993.0	-1993.0	-9599.0	9959.0	9999.0	1.515	2.5
26.350	86.449	-9999.0	-9995.0	9959.0	-2016.0	9599.0	1.702	2.4
26.450	86.777	-9999.0	-9599.0	9959.0	-9949.0	-9599.0	1.792	2.1
26.550	87.105	-9599.0	-9599.0	-9959.0	-1997.0	-1599.0	1.955	2.8
26.650	87.433	-9599.0	-9599.0	-9959.0	-2995.0	-9199.0	1.771	2.5
26.750	87.761	-9959.0	-9599.0	-9959.0	-5993.0	-9599.0	2.029	2.9
26.850	88.089	9959.0	-9999.0	-9959.0	-5995.0	-9599.0	2.131	3.2
26.950	88.418	-9199.0	-9199.0	-9959.0	-5995.0	-9599.0	2.076	3.5
27.050	88.746	-9799.0	-9599.0	-9959.0	5995.0	9959.0	2.505	3.4
27.150	89.074	-9599.0	-9599.0	-9959.0	5995.0	9599.0	2.696	4.1

Run No: 05-0308-1259-3521
CPT File: 721CPT4A.CCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Dr (%)	Col-11 Phi (deg)	Col-12 State Pax	Col-13 Ps/qt	Col-14 YoungE (tsf)	Col-15 Su (tsf)	Col 16 OCR
27.250	89.402	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.117	3.1
27.350	89.730	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.318	3.9
27.450	90.056	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.257	3.4
27.550	90.356	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.869	4.7
27.650	90.714	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.434	6.2
27.750	91.042	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.556	6.5
27.850	91.370	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.228	5.1
27.950	91.698	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.074	5.2
28.050	92.026	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.051	5.6
28.150	92.365	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.146	5.3
28.250	92.633	12.2	32.0	-0.06	-9999.0	-9999.0	3.025	5.0

Interpretation Output - Release 1.01 Rev. A - Build 5 Format (US Imperial)

Run No: 05-0308-1204-5701
Job No: 05-721
Client: GeoSyntec Consultants
Project: Pigeon Point Complex - Wilmington, Delaware
Site: CPT-05-005
Location: Pigeon Point
Cone: 37 TON AD15²
CPT Date: 03/07/05
CPT Time: 07:47
CPT File: 7215005.COR
Sounding (ft): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m) 2.29 (ft) 7.5
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Su Not Used: 15.00 Su/σ'vo (min): 0.10
Qc Method: Jamiolkowski - All Soils
Cone Parameter N: 1.20
Used Unit Weights Assigned to Soil Zones
Nsite Calculated Using qcin
Nsites Calculated Using qcincs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	9.71	9.71	0.19	1.95	1.15	5	-9999.0
0.100	0.492	-0.100	-0.492	19.10	19.10	0.27	1.30	9.58	6	6
0.150	0.820	-0.150	-0.820	37.85	37.85	0.74	1.66	-0.07	7	6
0.200	1.148	-0.201	-1.148	56.21	55.22	1.10	2.01	-14.05	7	6
0.250	1.476	-0.251	-1.476	33.91	19.85	0.31	2.23	-26.51	6	6
0.300	1.804	-0.301	-1.804	18.11	18.04	0.55	3.05	-14.27	5	6
0.350	2.133	-0.351	-2.133	10.43	10.10	0.35	3.54	-11.64	4	5
0.400	2.461	-0.401	-2.461	22.90	22.90	0.48	2.09	-1.09	6	5
0.450	2.789	-0.451	-2.789	24.50	24.50	0.33	2.01	-0.65	6	5
0.500	3.117	-0.501	-3.117	30.57	30.57	0.60	2.03	0.78	6	6
1.050	3.445	-1.050	-3.445	22.71	22.71	0.64	2.89	-0.15	6	5
1.100	3.773	-1.100	-3.773	8.91	8.91	0.33	3.71	0.23	3	4
1.150	4.101	-1.150	-4.101	10.15	10.17	0.16	1.77	4.31	5	5
1.200	4.429	-1.200	-4.429	13.35	13.36	0.25	1.93	2.26	5	5
1.250	4.757	-1.250	-4.757	16.65	16.67	0.19	1.25	2.19	4	4
1.300	5.085	-1.300	-5.085	26.67	26.69	0.49	1.82	1.11	6	5
1.350	5.413	-1.350	-5.413	35.73	35.74	0.54	1.42	3.47	7	6
1.400	5.741	-1.400	-5.741	44.94	44.96	0.44	0.97	7.67	7	5
1.450	6.069	-1.450	-6.069	60.62	60.63	0.80	2.75	2.89	8	6
1.500	6.398	-1.500	-6.398	73.72	73.83	0.59	1.34	11.62	7	6
1.550	6.726	-1.550	-6.726	15.84	15.85	0.36	3.35	2.05	3	3
1.600	7.054	-1.600	-7.054	67.75	67.76	0.75	1.51	-0.81	7	6
1.650	7.382	-1.650	-7.382	135.82	135.83	2.68	1.94	-1.44	7	6
1.700	7.710	-1.700	-7.710	102.30	102.33	1.71	1.62	5.74	6	6
1.750	8.038	-1.750	-8.038	154.17	154.54	3.07	1.96	57.09	7	6
1.800	8.366	-1.800	-8.366	97.77	97.97	2.38	2.43	0.26	7	6
1.850	8.694	-1.850	-8.694	46.06	45.61	0.98	2.12	6.12	6	5
1.900	9.022	-1.900	-9.022	21.89	21.99	0.65	3.57	0.48	6	5
1.950	9.350	-1.950	-9.350	15.71	15.91	0.66	3.83	-0.71	4	4
2.000	9.678	-2.000	-9.678	48.47	48.47	0.91	1.56	0.35	7	5
3.050	10.006	-3.050	-10.006	21.06	21.08	0.36	1.70	0.10	6	5
3.100	10.335	-3.100	-10.335	23.56	23.85	0.27	1.13	0.51	6	5

Run No: 05-0908-1256-5709
CPT File 72IE905.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (kPa)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
1.250	10.963	-1.250	-10.663	66.69	66.70	0.79	1.63	1.30	8	6
1.350	10.991	-1.350	-10.963	69.36	68.37	0.34	1.62	4.22	8	6
1.450	11.319	-1.450	-11.319	69.63	69.55	1.12	1.61	2.72	7	6
1.550	11.647	-1.550	-11.647	101.75	105.70	1.11	1.05	-0.14	8	5
1.650	11.975	-1.650	-11.975	79.66	79.66	1.35	1.75	0.06	7	6
1.750	12.303	-1.750	-12.103	141.60	141.60	2.32	1.64	0.56	8	6
1.850	12.631	-1.850	-12.631	59.96	59.96	1.00	1.66	-0.24	7	5
1.950	12.959	-1.950	-12.959	44.78	44.78	1.30	2.95	-0.60	6	4
2.050	13.287	-2.050	-13.287	41.08	41.08	0.54	1.31	-0.03	7	5
2.150	13.615	-2.150	-13.615	42.90	42.96	0.73	1.69	1.15	7	5
2.250	13.943	-2.250	-13.943	23.57	23.57	0.68	2.92	3.01	6	5
2.350	14.271	-2.350	-14.271	32.26	32.21	0.76	2.35	2.15	6	5
2.450	14.600	-2.450	-14.603	55.51	55.51	1.43	2.56	2.63	6	5
2.550	14.928	-2.550	-14.928	68.51	68.57	1.61	2.62	4.35	6	5
2.650	15.256	-2.650	-15.255	29.80	29.81	1.05	3.50	1.18	5	4
2.750	15.584	-2.750	-15.584	17.69	17.90	0.69	3.83	1.99	5	4
2.850	15.912	-2.850	-15.912	16.87	16.92	0.69	4.05	10.30	4	3
2.950	16.240	-2.950	-15.240	34.62	34.64	0.91	2.62	3.21	6	5
3.050	16.568	-3.050	-16.596	28.62	28.64	0.78	2.71	3.29	6	4
3.150	16.996	-3.150	-16.856	27.00	27.06	0.36	1.33	0.69	6	5
3.250	17.224	-3.250	-17.224	34.40	34.47	0.46	1.35	3.52	6	5
3.350	17.552	-3.350	-17.552	19.64	19.69	0.43	2.18	9.32	5	4
3.450	17.880	-3.450	-17.880	25.93	25.91	0.49	1.65	26.29	5	4
3.550	18.208	-3.550	-18.208	42.62	42.64	0.74	1.63	6.52	7	5
3.650	18.537	-3.650	-18.537	25.83	25.80	0.78	3.49	26.49	5	4
3.750	18.865	-3.750	-18.865	34.27	34.32	0.51	1.48	9.01	6	5
3.850	19.193	-3.850	-19.193	77.65	77.67	1.06	1.36	4.31	7	6
3.950	19.521	-3.950	-19.521	43.12	43.13	1.55	3.60	2.91	6	6
4.050	19.849	-4.050	-19.849	20.94	20.96	0.53	2.59	1.71	6	4
4.150	20.177	-4.150	-20.177	27.65	27.61	0.49	1.78	1.71	6	5
4.250	20.505	-4.250	-20.505	9.07	9.08	0.37	4.05	1.31	3	3
4.350	20.833	-4.350	-20.833	37.56	37.66	0.83	2.20	1.35	6	5
4.450	21.161	-4.450	-21.161	69.82	69.81	1.08	1.54	2.17	7	5
4.550	21.489	-4.550	-21.489	105.20	105.19	1.27	1.20	2.52	8	6
4.650	21.817	-4.650	-21.817	409.83	409.55	1.15	0.27	5.38	10	6
4.750	22.145	-4.750	-22.145	384.57	384.53	1.46	0.61	5.32	8	6
4.850	22.473	-4.850	-22.473	263.73	253.75	1.99	1.61	2.64	8	6
4.950	22.802	-4.950	-22.802	56.54	56.54	1.06	1.11	2.28	6	5
5.050	23.130	-5.050	-23.130	57.46	57.47	0.78	1.14	2.44	7	5
5.150	23.458	-5.150	-23.459	47.24	47.26	0.46	0.98	4.52	7	5
5.250	23.786	-5.250	-23.786	21.47	21.53	0.18	1.61	12.61	6	4
5.350	24.114	-5.350	-24.114	40.95	40.95	0.91	2.22	1.13	6	5
5.450	24.442	-5.450	-24.442	62.83	62.84	1.17	1.84	1.69	7	5
5.550	24.770	-5.550	-24.770	76.91	76.12	0.91	1.52	1.79	8	6
5.650	25.098	-5.650	-25.098	63.15	63.25	1.11	1.76	1.56	7	5
5.750	25.426	-5.750	-25.426	99.79	99.72	2.10	2.11	2.72	8	6
5.850	25.754	-5.850	-25.754	43.67	43.74	1.97	4.51	16.06	6	4
5.950	26.082	-5.950	-26.082	31.54	31.43	0.59	1.87	28.74	6	4
6.050	26.410	-6.050	-26.410	16.00	16.01	0.41	2.54	2.12	5	4
6.150	26.739	-6.150	-26.739	104.35	104.27	1.56	1.43	2.75	8	6
6.250	27.067	-6.250	-27.067	225.96	225.96	2.26	1.03	2.42	9	6
6.350	27.395	-6.350	-27.359	97.97	97.99	2.32	2.38	3.74	8	6
6.450	27.723	-6.450	-27.723	41.75	41.77	1.63	3.90	4.87	6	4
6.550	28.051	-6.550	-28.051	85.70	85.73	2.54	2.97	2.62	6	5
6.650	28.379	-6.650	-28.379	140.41	140.43	3.10	2.22	5.13	7	5
6.750	28.707	-6.750	-28.707	29.13	29.16	1.37	4.69	4.44	4	3
6.850	29.035	-6.850	-29.036	17.36	17.36	0.42	2.37	4.38	5	4
6.950	29.361	-6.950	-29.363	16.15	16.17	0.25	1.78	2.75	5	4
7.050	29.691	-7.050	-29.691	16.17	16.19	0.76	2.16	5.59	5	4
7.150	30.019	-7.150	-30.019	47.28	47.31	1.45	3.09	5.54	5	4

Run No: 06-0a8a-1260-b7b3
CPT File: 121CPC5.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
9.250	30.347	-9.250	-30.347	62.57	62.66	1.74	2.78	5.38	6	5
9.350	30.675	-9.350	-30.676	80.56	85.60	1.81	2.02	9.10	7	5
9.450	31.004	-9.450	-31.004	66.38	66.13	1.85	2.71	6.56	6	5
9.550	31.332	-9.550	-31.332	56.46	56.43	1.11	1.97	7.54	5	4
9.650	31.660	-9.650	-31.660	31.47	31.51	0.48	1.54	8.67	4	3
9.750	31.988	-9.750	-31.988	18.48	18.54	0.33	1.79	14.73	5	4
9.850	32.316	-9.850	-32.316	31.38	31.26	0.54	1.72	26.65	5	4
9.950	32.644	-9.950	-32.644	34.67	34.70	0.58	1.67	26.90	6	4
10.050	32.972	-10.050	-32.972	32.46	32.46	0.53	0.96	32.72	6	4
10.150	33.300	-10.150	-33.300	32.30	32.19	0.68	2.05	39.65	6	4
10.250	33.628	-10.250	-33.628	32.04	32.14	0.65	2.79	20.53	6	4
10.350	33.956	-10.350	-33.956	32.40	32.57	0.15	0.80	37.72	6	4
10.450	34.284	-10.450	-34.284	31.52	32.02	0.33	1.08	42.58	6	4
10.550	34.612	-10.550	-34.612	33.93	33.25	0.15	2.20	48.65	6	4
10.650	34.941	-10.650	-34.941	33.54	33.79	0.18	1.27	53.14	6	4
10.750	35.269	-10.750	-35.269	33.39	33.47	0.13	1.36	58.57	6	4
10.850	35.597	-10.850	-35.597	33.86	34.17	0.21	1.45	64.36	6	4
10.950	35.925	-10.950	-35.925	34.76	35.12	0.36	2.39	73.64	6	3
11.050	36.253	-11.050	-36.253	35.53	36.06	0.40	1.84	81.80	6	4
11.150	36.581	-11.150	-36.581	36.55	36.65	0.23	1.60	49.29	6	4
11.250	36.909	-11.250	-36.909	36.23	36.65	0.26	1.58	57.99	6	4
11.350	37.237	-11.350	37.237	37.79	38.47	0.31	2.01	166.80	6	4
11.450	37.565	-11.450	-37.565	28.46	25.35	0.79	2.74	104.41	6	4
11.550	37.893	-11.550	-37.893	56.29	35.38	2.49	6.83	39.11	1	1
11.650	38.221	-11.650	-38.221	216.38	216.12	5.14	3.84	116.35	9	5
11.750	38.549	-11.750	-38.549	246.04	246.12	7.67	3.68	26.27	12	5
11.850	38.877	-11.850	-38.877	221.67	221.70	7.39	3.33	1.34	12	5
11.950	39.206	-11.950	-39.206	39.69	37.12	2.36	5.98	6.54	7	3
12.050	39.534	-12.050	-39.534	11.66	11.36	0.36	3.19	13.27	4	1
12.150	39.862	-12.150	-39.862	16.40	15.32	0.31	2.13	26.24	4	1
12.250	40.190	-12.250	-40.190	18.67	17.68	0.36	1.97	29.68	6	4
12.350	40.518	-12.350	-40.518	19.63	20.06	0.32	1.68	45.88	6	4
12.450	40.846	-12.450	-40.846	17.73	17.58	0.25	1.41	54.25	6	4
12.550	41.174	-12.550	-41.174	17.12	17.44	0.21	1.24	70.74	6	4
12.650	41.502	-12.650	-41.502	21.76	18.19	0.37	1.74	92.67	6	4
12.750	41.830	-12.750	-41.830	39.96	40.48	0.53	1.33	137.66	7	5
12.850	42.158	-12.850	-42.164	149.18	149.65	1.10	0.73	14.92	9	6
12.950	42.486	-12.950	-42.486	202.78	202.75	1.64	0.81	12.17	9	6
13.050	42.814	-13.050	-42.814	227.86	227.42	1.65	0.73	11.36	9	6
13.150	43.143	-13.150	-43.143	248.19	248.24	1.71	0.74	9.75	9	6
13.250	43.471	-13.250	-43.471	218.12	235.17	2.81	1.19	10.49	9	6
13.350	43.799	-13.350	-43.799	256.91	255.06	2.43	0.94	10.95	9	6
13.450	44.127	-13.450	-44.127	221.60	221.65	1.82	1.01	3.64	9	6
13.550	44.456	-13.550	-44.455	216.94	216.09	1.38	0.56	10.62	9	5
13.650	44.783	-13.650	-44.783	197.43	197.48	1.45	2.45	10.95	10	4
13.750	45.111	-13.750	-45.111	134.89	131.56	1.16	0.85	10.61	10	4
13.850	45.439	-13.850	-45.439	177.25	177.28	2.10	0.66	5.35	10	5
13.950	45.767	-13.950	-45.767	170.13	130.16	1.92	0.52	5.24	10	5
14.050	46.095	-14.050	-46.096	246.46	231.46	1.11	0.38	5.36	10	6
14.150	46.423	-14.150	-46.423	267.16	247.19	0.72	0.27	5.42	10	6
14.250	46.751	-14.250	-46.751	272.17	272.19	0.61	0.24	5.17	10	6
14.350	47.079	-14.350	-47.079	258.75	263.31	0.54	0.20	4.62	10	6
14.450	47.408	-14.450	-47.408	263.53	261.95	0.60	0.25	5.54	10	6
14.550	47.736	-14.550	-47.736	229.81	227.84	0.86	0.37	6.24	10	6
14.650	48.064	-14.650	-48.064	208.12	208.51	1.41	0.68	-1.25	9	6
14.750	48.392	-14.750	-48.392	147.99	147.98	2.72	2.31	2.26	7	5
14.850	48.720	-14.850	-48.720	90.04	90.03	3.41	3.79	3.44	5	4
14.950	49.049	-14.950	-49.049	59.01	59.01	3.56	6.03	-1.26	11	4
15.050	49.377	-15.050	-49.376	56.21	56.19	4.01	7.14	-4.56	2	4
15.150	49.705	-15.150	-49.704	54.73	54.73	3.85	7.04	-4.85	1	3

Run No: 08-0198-1258-5781
CPT File: 721CP05.CPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 Vnt (Pseu)	Col 11 QSBn (Pseu)
15.240	50.000	-26.250	-50.000	47.58	47.96	3.19	6.65	-4.75	3	3
15.350	50.360	-26.360	-50.365	46.05	46.00	2.80	6.64	-6.19	3	3
15.490	50.486	-26.500	-50.803	47.72	47.69	2.52	5.28	-6.28	3	3
15.560	51.036	-26.550	-52.024	46.14	48.20	2.46	5.12	-6.50	3	3
15.660	51.345	-26.450	-52.345	48.30	48.32	2.48	5.16	-6.72	3	3
15.750	51.673	-26.750	-52.672	47.56	47.57	2.43	5.12	-6.82	3	3
15.860	52.001	-26.850	-53.003	45.39	45.35	2.50	5.60	-7.18	3	3
15.960	52.329	-26.950	-53.329	45.84	45.80	2.62	5.72	-7.55	3	3
16.060	52.657	-27.050	-53.657	46.03	45.99	2.61	5.70	-7.37	3	3
16.150	52.966	-27.150	-53.965	46.89	46.85	2.64	5.67	-7.39	3	3
16.260	53.313	-27.250	-54.313	45.77	45.74	2.76	6.04	-7.28	3	3
16.350	53.641	-27.350	-54.641	47.75	47.72	2.75	5.79	-8.38	4	3
16.460	53.969	-27.450	-54.969	51.26	51.23	2.61	5.09	-8.20	4	4
16.560	54.297	-27.550	-55.297	54.59	54.51	2.55	4.67	-8.31	4	4
16.650	54.625	-27.650	-55.625	53.82	53.76	2.75	4.78	-8.35	5	4
16.760	54.953	-27.750	-55.953	47.43	47.36	1.65	3.48	-8.59	5	4
16.860	55.281	-27.850	-56.281	40.76	40.72	1.35	3.32	-8.17	5	4
16.950	55.610	-27.950	-56.610	41.17	41.14	1.19	2.92	-6.60	6	4
17.060	55.938	-28.050	-56.938	44.14	44.12	2.00	4.53	-4.44	6	5
17.150	56.266	-28.150	-57.266	43.60	43.58	2.21	5.08	-5.56	7	5
17.260	56.594	-28.250	-57.594	40.36	40.35	2.10	4.93	-3.39	6	5
17.350	56.922	-28.350	-57.922	49.66	49.62	2.47	4.98	-1.39	6	5
17.460	57.250	-28.450	-58.261	53.43	53.43	2.74	5.12	-4.55	6	5
17.560	57.578	-28.550	-58.578	51.73	51.75	3.09	5.97	-6.29	7	5
17.650	57.906	-28.650	-58.906	50.69	50.74	3.17	6.25	-11.73	7	5
17.760	58.234	-28.750	-59.234	53.30	53.38	3.20	5.98	-16.49	7	5
17.860	58.562	-28.850	-59.562	53.35	53.34	3.21	5.83	-18.13	7	5
17.950	58.890	-28.950	-59.890	49.99	50.10	2.86	5.71	-23.56	7	5
18.060	59.218	-29.060	-60.218	51.46	51.62	2.96	5.69	-20.56	7	5
18.150	59.547	-29.150	-60.564	51.26	51.21	2.90	5.67	-8.01	7	5
18.260	59.875	-29.260	-60.875	44.49	44.56	2.51	5.67	-7.32	7	5
18.360	60.203	-29.360	-61.203	38.33	38.29	1.98	5.16	-7.61	5	5
18.450	60.531	-29.450	-61.531	41.40	41.35	1.66	3.53	-8.39	5	5
18.560	60.859	-29.560	-61.859	49.38	49.34	0.95	1.96	-8.41	7	5
18.650	61.187	-29.650	-62.187	64.81	64.97	0.80	1.33	-8.91	7	5
18.750	61.515	-29.750	-62.515	26.28	26.24	0.32	1.35	-10.18	7	4
18.850	61.843	-29.850	-62.843	21.45	21.40	0.14	0.60	-10.66	7	4
18.950	62.171	-29.950	-63.171	27.41	27.36	0.05	0.20	-10.22	7	5
19.060	62.499	-30.060	-63.499	16.52	16.47	0.19	1.27	-10.15	7	5
19.150	62.827	-30.150	-63.827	41.75	41.70	0.18	0.21	-9.84	8	5
19.260	63.155	-30.260	-64.155	87.37	87.34	0.34	0.42	-8.43	8	5
19.350	63.483	-30.350	-64.483	102.02	102.09	0.56	0.51	-4.31	9	6
19.450	63.812	-30.450	-64.812	164.13	164.17	0.72	0.46	13.03	9	6
19.550	64.140	-30.550	-65.140	128.31	128.30	0.56	0.43	21.05	9	6
19.650	64.468	-30.650	-65.468	222.27	222.35	1.42	0.64	15.37	9	6
19.750	64.796	-30.750	-65.796	195.61	195.62	0.95	0.46	5.25	9	6
19.850	65.124	-30.850	-66.124	256.69	256.70	1.09	0.69	5.43	9	6
19.950	65.452	-30.950	-66.452	161.92	161.82	0.94	0.53	13.46	9	6
20.050	65.780	-31.050	-66.780	298.52	298.57	1.70	0.46	9.31	9	6
20.160	66.108	-31.160	-67.108	160.09	163.42	1.13	0.71	3.22	9	6
20.250	66.436	-31.250	-67.436	193.48	193.54	1.21	0.84	17.93	9	6
20.360	66.764	-31.360	-67.764	111.70	111.75	1.14	1.02	14.71	9	5
20.450	67.092	-31.450	-68.092	87.30	87.45	0.81	0.92	15.52	9	5
20.560	67.420	-31.560	-68.420	53.31	53.43	1.05	1.98	20.62	9	4
20.650	67.749	-31.650	-68.749	45.05	45.39	1.55	3.41	19.18	8	4
20.750	68.077	-31.750	-69.077	43.96	44.14	1.90	4.28	18.35	8	4
20.850	68.405	-31.850	-69.405	44.87	45.24	2.03	4.54	17.92	8	3
20.950	68.733	-31.950	-69.733	45.12	45.44	2.12	3.52	16.72	8	3
21.050	69.061	-32.050	-70.061	43.95	42.20	2.31	4.39	15.49	8	3
21.150	69.389	-32.150	-70.389	35.37	36.09	2.34	3.37	18.26	7	3

Run No. 15-0308-1750-5703
CPT File: 7210P03 CCR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
21.250	69.717	-21.250	-69.717	36.57	37.05	1.71	4.64	102.24	6	3
21.350	70.046	-21.350	-70.045	40.09	41.42	1.98	4.77	107.71	6	3
21.450	70.374	-21.450	-70.373	37.79	38.96	1.92	4.76	106.30	6	3
21.550	70.703	-21.550	-70.701	37.50	38.49	1.74	4.53	102.15	6	3
21.650	71.029	-21.650	-71.029	37.53	38.43	1.70	4.43	101.99	6	3
21.750	71.357	-21.750	-71.357	41.20	41.91	1.93	4.36	101.27	6	3
21.850	71.685	-21.850	-71.685	42.64	43.19	2.16	4.97	103.56	6	3
21.950	72.014	-21.950	-72.014	40.56	41.12	1.82	4.42	101.94	6	3
22.050	72.342	-22.050	-72.342	38.96	40.16	1.83	4.51	105.31	6	3
22.150	72.670	-22.150	-72.670	36.93	37.98	1.64	4.30	93.01	6	3
22.250	72.998	-22.250	-72.998	38.91	39.36	1.76	4.43	91.01	5	3
22.350	73.326	-22.350	-73.326	40.74	38.41	1.67	4.19	93.02	5	3
22.450	73.654	-22.450	-73.654	40.50	40.72	1.64	4.03	44.44	5	3
22.550	73.982	-22.550	-73.982	44.52	44.70	1.79	4.01	97.92	5	3
22.650	74.310	-22.650	-74.310	43.91	48.05	1.59	4.15	25.05	5	3
22.750	74.638	-22.750	-74.638	46.52	48.60	2.36	4.85	11.51	4	3
22.850	74.966	-22.850	-74.965	46.39	48.47	2.17	4.48	17.76	4	3
22.950	75.294	-22.950	-75.294	37.57	37.43	2.47	6.59	13.62	3	3
23.050	75.622	-23.050	-75.622	43.57	43.12	2.66	6.04	23.96	3	3
23.150	75.951	-23.150	-75.951	48.62	48.49	2.12	4.37	13.60	4	3
23.250	76.279	-23.250	-76.279	70.56	70.64	3.86	2.62	13.63	6	4
23.350	76.607	-23.350	-76.607	69.60	69.69	3.46	2.01	19.61	7	4
23.450	76.935	-23.450	-76.935	107.67	107.67	3.29	1.19	61.73	8	5
23.550	77.263	-23.550	-77.263	161.43	161.16	3.63	1.15	12.61	8	5
23.650	77.591	-23.650	-77.591	159.74	159.78	3.10	0.69	8.75	8	6
23.750	77.919	-23.750	-77.919	160.74	160.72	1.12	0.70	7.41	8	6
23.850	78.247	-23.850	-78.247	170.91	170.80	1.19	0.69	5.65	8	6
23.950	78.575	-23.950	-78.575	156.74	156.71	1.22	0.78	-5.55	8	6
24.050	78.903	-24.050	-78.903	63.65	63.60	0.59	0.95	-5.35	5	5
24.150	79.231	-24.150	-79.231	38.13	38.12	0.55	1.39	-2.70	7	4
24.250	79.559	-24.250	-79.559	41.84	42.44	0.56	1.32	127.37	7	4
24.350	79.887	-24.350	-79.887	35.25	36.08	1.09	3.01	176.36	6	3
24.450	80.216	-24.450	-80.236	37.53	38.15	2.06	5.40	132.35	3	3
24.550	80.544	-24.550	-80.544	39.35	39.74	2.57	6.47	83.92	3	3
24.650	80.872	-24.650	-80.872	37.24	37.63	2.53	6.75	26.97	3	3
24.750	81.200	-24.750	-81.200	60.61	60.56	2.15	5.30	33.15	3	3
24.850	81.528	-24.850	-81.528	62.65	62.61	2.14	5.02	46.29	3	3
24.950	81.856	-24.950	-81.856	62.83	63.05	2.33	5.62	61.97	3	3
25.050	82.184	-25.050	-82.184	63.67	49.88	2.03	5.08	64.08	3	3
25.150	82.512	-25.150	-82.512	47.75	47.91	2.34	5.99	52.52	3	3
25.250	82.840	-25.250	-82.840	43.29	44.24	2.18	7.19	62.02	3	3
25.350	83.168	-25.350	-83.168	42.53	43.43	2.04	4.71	101.75	6	3
25.450	83.496	-25.450	-83.496	65.46	65.68	2.15	4.92	6.68	4	3
25.550	83.824	-25.550	-83.824	40.69	40.72	2.70	6.62	7.32	3	3
25.650	84.152	-25.650	-84.152	36.48	36.51	2.52	6.90	7.16	3	3
25.750	84.481	-25.750	-84.481	36.64	36.91	3.59	9.81	30.29	3	3
25.850	84.809	-25.850	-84.809	40.41	40.49	2.57	6.35	27.22	3	3
25.950	85.137	-25.950	-85.137	45.58	45.70	2.54	5.56	28.36	3	3
26.050	85.465	-26.050	-85.465	44.05	44.16	2.78	6.29	28.64	3	3
26.150	85.793	-26.150	-85.793	38.71	38.85	2.44	6.23	25.67	3	3
26.250	86.121	-26.250	-86.121	42.61	42.26	2.62	5.86	51.68	3	3
26.350	86.449	-26.350	-86.449	40.85	41.07	2.39	6.51	44.53	3	3
26.450	86.777	-26.450	-86.777	35.26	35.49	2.18	6.14	48.41	3	3
26.550	87.105	-26.550	-87.105	32.42	32.73	2.14	6.51	60.73	3	3
26.650	87.433	-26.650	-87.433	37.68	37.43	2.31	5.61	7.81	3	3
26.750	87.761	-26.750	-87.761	16.27	16.27	1.75	4.84	11.67	4	3
26.850	88.089	-26.850	-88.089	63.56	63.75	1.66	3.32	19.26	5	3
26.950	88.418	-26.950	-88.418	57.97	58.07	1.70	2.97	21.41	7	4
27.050	88.746	-27.050	-88.746	46.74	46.87	1.16	2.51	31.08	6	4
27.150	89.074	-27.150	-89.074	42.90	43.08	1.36	3.17	55.58	6	3

Run No: 05-0508-1356-5725
DPT File: TRICP05.COR

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-03 Elev (ft)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
27.250	89.407	-27.150	-89.402	39.67	41.24	1.24	3.02	334.80	4	4
27.380	89.830	-27.280	-89.830	61.16	62.79	1.48	2.35	339.53	5	3
27.450	90.059	-27.450	-90.059	37.66	38.82	1.40	6.12	258.59	5	3
27.550	90.386	-27.540	-90.384	36.43	37.59	1.53	4.01	250.69	5	3
27.650	90.714	-27.640	-90.714	37.18	38.21	1.51	4.23	239.50	4	3
27.750	91.042	-27.750	-91.042	44.28	46.64	1.85	4.14	217.29	5	3
27.850	91.370	-27.850	-91.370	46.83	50.14	2.05	4.09	778.15	5	3
27.950	91.698	-27.950	-91.698	60.34	61.77	1.51	2.47	190.29	6	4
28.050	92.026	-28.050	-92.026	53.72	55.77	2.17	3.85	415.01	5	3
28.150	92.355	-28.150	-92.359	54.01	54.97	2.99	5.45	193.32	3	1
28.250	92.683	-28.250	-92.683	52.00	52.74	1.96	5.31	152.03	3	1
28.350	93.011	-28.350	-93.011	52.73	53.99	1.46	5.27	165.16	3	1
28.450	93.339	-28.450	-93.335	51.35	51.51	2.76	5.35	98.34	3	1
28.550	93.667	-28.550	-93.667	44.97	45.25	2.54	5.59	59.65	3	1
28.651	93.995	-28.650	-93.995	45.13	45.75	2.11	4.73	138.32	4	1
28.750	94.323	-28.750	-94.323	67.67	69.44	1.43	2.06	334.46	7	4
28.850	94.651	-28.850	-94.651	94.52	97.70	3.21	3.33	699.55	6	4

Interpretation Output: Release 1.22 Rev. A Build 5 Format: ENG Imperial

Run No: 05-0108-1256-5701

Job No: 05-703

Client: GreyHawke Consultants

Project: Pigeon Point Landfill - Wilmington, Delaware

Site: CPT-05-005

Location: Pigeon Point

Cone: 20 TON AGI57

CPT Date: 05/01/01

CPT Time: 07:47

CPT File: 721CP05.CPT

Northing (ft): 0.000000

Easting (ft): 0.000000

Elevation (ft): 0.000000

Water Table (ft): 2.22 γ(-): 9.5

Unit Weight of Water (default): 62.40 pcf

Averaging Increment (ft): 0.10

Sc Net Type: 15.00 Sc/Pa (min): 0.50

Dr Method: Jamiolkowski - All Sands

Grain Parameter M: 1.00

Fixed Unit Weights Assigned to Soil Zones

Ic(Qtn) Calculated using Qtn

Ic(Qtn) Calculated using Qtncs

Col-01 Depth (ft)	Col-02 Depth (m)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQ (Zone)	Col-14 Perm K (cm/s)	Col 15 Unit Wt (pcf)	Col 16 Y Stress (tsf)	Col-17 U Stress (tsf)	Col 18 E Stress (tsf)	Col 19 Qt	Col 20 Qtn (Q/F)
0.000	0.144	5	9999.1	6.0E-06	114.6	0.009	0.000	0.009	3.00	4.7
0.150	0.452	6	7	6.0E-06	114.6	0.024	0.000	0.024	3.00	7.1
0.250	0.830	6	7	6.0E-06	111.7	0.041	0.000	0.041	3.00	11.8
0.350	1.148	7	7	5.0E-06	111.7	0.061	0.000	0.061	3.00	17.4
0.450	1.474	8	7	5.0E-06	114.6	0.085	0.000	0.086	3.00	25.3
0.500	1.634	6	6	5.0E-06	114.6	0.104	0.000	0.104	3.00	8.6
0.650	2.113	6	6	5.1E-07	114.6	0.121	0.000	0.121	3.00	9.7
0.750	2.461	7	6	5.0E-05	114.6	0.142	0.000	0.142	3.00	8.8
0.850	2.789	7	6	5.0E-05	114.6	0.163	0.000	0.161	3.00	9.4
0.950	3.117	7	6	5.0E-05	114.6	0.180	0.000	0.180	3.00	10.7
1.050	3.445	7	6	5.0E-05	114.6	0.198	0.000	0.198	3.00	8.7
1.150	3.773	5	6	5.0E-06	111.6	0.217	0.000	0.217	3.00	8.5
1.250	4.101	5	6	5.0E-06	114.6	0.234	0.000	0.235	3.00	6.5
1.350	4.429	6	6	5.0E-06	114.6	0.254	0.000	0.254	3.00	6.4
1.450	4.757	6	6	5.0E-06	114.6	0.273	0.000	0.273	3.00	9.6
1.550	5.085	7	6	5.0E-06	114.6	0.292	0.000	0.292	3.00	10.2
1.650	5.413	8	6	5.0E-06	117.7	0.311	0.000	0.311	3.00	12.7
1.750	5.741	8	6	5.0E-06	117.7	0.330	0.000	0.330	3.00	14.4
1.850	6.069	9	7	5.0E-07	117.9	0.350	0.000	0.350	3.00	16.1
1.950	6.396	9	7	5.0E-06	117.7	0.369	0.000	0.369	3.00	22.5
2.050	6.726	6	6	5.0E-06	111.6	0.389	0.000	0.388	3.00	11.7
2.150	7.054	8	6	5.0E-06	117.7	0.407	0.000	0.407	3.00	14.2
2.250	7.382	8	7	5.0E-06	117.7	0.426	0.000	0.426	3.00	42.1
2.350	7.710	9	7	5.0E-05	114.6	0.445	0.000	0.446	3.00	39.2
2.450	8.038	9	7	5.0E-06	117.7	0.464	0.000	0.464	3.00	48.3
2.550	8.366	9	7	5.0E-06	117.7	0.484	0.000	0.484	3.00	33.2
2.650	8.694	8	6	5.0E-05	114.6	0.503	0.000	0.503	3.00	17.5
2.750	9.022	7	6	5.0E-05	114.6	0.522	0.000	0.522	3.00	9.2
2.850	9.350	6	6	5.0E-07	114.6	0.542	0.000	0.542	3.00	10.0
2.950	9.678	8	6	5.0E-06	117.7	0.561	0.000	0.561	3.00	10.3
3.050	10.006	7	6	5.0E-06	114.6	0.578	0.000	0.580	3.00	8.1
3.150	10.335	7	6	5.0E-06	114.6	0.597	0.000	0.598	3.00	8.1

Run No. 06 0316-1258-5702
CPT File: 7215795.CPR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 SBT Zn (Zone)	Col-11 SBT Zn (Zone)	Col-14 Pore W (psi)	Col-15 Unit Wt (pcf)	Col-16 V Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Qn	Col-20 N60 (b/ft)
3.250	10.661	8	6	5.0E-04	120.9	0.517	0.195	1.511	1.49	16.9
3.350	10.991	8	6	5.0E-04	120.9	0.535	0.205	1.529	1.50	16.4
3.450	11.319	8	6	5.0E-04	120.9	0.553	0.216	1.547	1.50	27.8
3.550	11.647	9	7	5.0E-03	120.9	0.570	0.227	1.565	1.50	25.3
3.650	11.975	9	8	5.0E-04	117.7	0.586	0.237	1.581	1.38	25.4
3.750	12.303	9	7	5.0E-03	120.9	0.616	0.251	1.598	1.34	33.9
3.850	12.631	8	6	5.0E-04	117.7	0.634	0.267	1.617	1.33	25.3
3.950	12.959	6	6	5.0E-05	114.6	0.650	0.278	1.632	1.32	29.2
4.050	13.287	8	6	5.0E-04	117.7	0.672	0.288	1.651	1.31	34.1
4.150	13.615	8	6	5.0E-04	117.7	0.692	0.298	1.670	1.30	31.7
4.250	13.943	7	6	5.0E-05	114.6	0.711	0.308	1.688	1.29	9.0
4.350	14.271	7	6	5.0E-05	114.6	0.730	0.319	1.705	1.29	12.4
4.450	14.600	8	6	5.0E-04	114.6	0.748	0.329	1.720	1.27	21.0
4.550	14.928	8	6	5.0E-05	114.6	0.767	0.339	0.520	1.24	24.9
4.650	15.256	7	6	5.0E-05	114.6	0.836	0.349	0.537	1.25	14.0
4.750	15.584	6	5	5.0E-04	114.6	0.905	0.360	0.555	1.25	9.0
4.850	15.912	6	5	5.0E-04	114.6	0.924	0.370	0.554	1.24	12.0
4.950	16.240	7	6	5.0E-04	114.6	0.942	0.380	0.662	1.23	13.9
5.050	16.568	7	6	5.0E-05	114.6	0.961	0.390	0.671	1.22	11.0
5.150	16.896	7	6	5.0E-05	111.6	0.980	0.401	0.679	1.21	10.6
5.250	17.224	7	6	5.0E-05	114.6	0.999	0.411	0.688	1.21	13.2
5.350	17.552	7	5	5.0E-06	114.6	1.018	0.422	0.697	1.20	9.4
5.450	17.880	7	6	5.0E-06	114.6	1.036	0.431	0.705	1.19	12.5
5.550	18.208	8	7	5.0E-04	117.7	1.055	0.442	0.714	1.18	26.5
5.650	18.537	7	6	5.0E-06	114.6	1.074	0.452	0.723	1.18	22.9
5.750	18.865	7	6	5.0E-05	114.6	1.093	0.462	0.731	1.17	13.5
5.850	19.193	8	6	5.0E-04	117.7	1.112	0.472	0.740	1.16	24.6
5.950	19.521	8	7	5.0E-06	114.6	1.131	0.483	0.749	1.15	20.7
6.050	19.849	7	6	5.0E-06	114.6	1.150	0.493	0.757	1.15	9.6
6.150	20.177	7	6	5.0E-05	114.6	1.169	0.503	0.766	1.14	10.5
6.250	20.505	5	4	5.0E-03	111.6	1.188	0.513	0.774	1.14	8.7
6.350	20.833	6	6	5.0E-05	114.6	1.207	0.523	0.783	1.13	14.6
6.450	21.161	8	6	5.0E-04	117.7	1.225	0.534	0.791	1.12	22.3
6.550	21.489	9	7	5.0E-03	120.9	1.245	0.544	0.801	1.12	44.6
6.650	21.817	10	7	5.0E-03	123.8	1.265	0.554	0.811	1.11	65.4
6.750	22.145	10	7	5.0E-03	120.9	1.284	0.564	0.821	1.10	92.2
6.850	22.473	10	7	5.0E-03	120.9	1.305	0.575	0.831	1.10	61.3
6.950	22.802	9	8	5.0E-05	114.6	1.325	0.585	0.840	1.09	37.8
7.050	23.130	8	8	5.0E-04	117.7	1.346	0.595	0.849	1.07	33.7
7.150	23.458	8	8	5.0E-04	117.7	1.363	0.605	0.858	1.07	33.1
7.250	23.786	7	5	5.0E-06	114.6	1.382	0.616	0.866	1.07	27.0
7.350	24.114	8	6	5.0E-05	114.6	1.401	0.626	0.875	1.07	15.7
7.450	24.442	8	6	5.0E-04	117.7	1.420	1.636	0.884	1.06	20.1
7.550	24.770	7	6	5.0E-05	114.6	1.439	0.646	0.893	1.06	13.5
7.650	25.098	8	8	5.0E-04	117.7	1.458	0.657	0.901	1.05	20.2
7.750	25.426	8	6	5.0E-05	114.6	1.477	0.667	0.910	1.05	25.2
7.850	25.754	8	8	5.0E-04	114.6	1.496	0.677	0.918	1.04	27.8
7.950	26.082	7	8	5.0E-04	114.6	1.515	0.687	0.927	1.04	17.0
8.050	26.410	6	5	5.0E-06	114.6	1.533	0.698	0.935	1.03	7.7
8.150	26.739	9	6	5.0E-03	120.9	1.553	0.708	0.944	1.03	25.7
8.250	27.067	9	7	5.0E-02	124.1	1.573	0.718	0.953	1.02	42.3
8.350	27.395	8	6	5.0E-04	114.6	1.592	1.626	0.964	1.02	27.8
8.450	27.723	8	6	5.0E-05	114.6	1.611	0.739	0.971	1.01	20.1
8.550	28.051	9	6	5.0E-05	114.6	1.630	0.749	0.981	1.01	32.5
8.650	28.379	9	6	5.0E-04	117.7	1.649	0.759	0.990	1.01	44.8
8.750	28.707	7	5	5.0E-05	114.6	1.668	0.769	0.999	1.00	15.6
8.850	29.035	6	5	5.0E-05	114.6	1.687	1.660	1.007	1.00	8.1
8.950	29.363	6	4	5.0E-05	114.6	1.706	0.690	1.016	0.99	8.1
9.050	29.691	7	6	5.0E-05	114.6	1.724	0.700	1.024	0.99	15.5
9.150	30.019	8	6	5.0E-05	114.6	1.743	0.710	1.033	0.98	15.5

Run No 05-0308-1258-5783
CPT File 7215P05.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT ID (Zone)	Col-13 SBT-Eqn (Zone)	Col-14 Perm K (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 F Stress (tsf)	Col-19 Fn	Col-20 OCR (D/L)
1.250	30.547	8	6	5.0E-05	124.4	1.782	0.021	1.042	0.03	24.0
1.350	30.875	8	6	5.0E-04	127.7	1.181	0.011	1.050	0.02	20.6
1.450	31.004	8	6	5.0E-05	124.5	1.800	0.741	1.059	0.77	26.1
1.550	31.332	7	5	5.0E-06	124.5	1.819	0.751	1.068	0.97	26.5
1.650	31.660	6	4	5.0E-08	121.4	1.836	0.762	1.078	0.96	31.0
1.750	31.988	6	4	5.0E-06	124.6	1.856	0.772	1.086	0.96	6.0
1.850	32.316	6	4	5.0E-06	124.1	1.875	0.782	1.093	0.96	5.4
1.950	32.644	6	4	5.0E-06	124.1	1.896	0.792	1.103	0.95	6.9
2.050	32.972	6	4	5.0E-06	124.4	1.912	0.802	1.110	0.95	6.8
2.150	33.300	6	4	5.0E-05	124.8	1.931	0.813	1.119	0.93	6.7
2.250	33.629	6	4	5.0E-05	124.5	1.950	0.823	1.127	0.96	6.7
2.350	33.957	6	4	5.0E-05	124.6	1.969	0.834	1.136	0.96	6.6
2.450	34.285	6	4	5.0E-05	124.6	1.988	0.844	1.144	0.95	6.6
2.550	34.613	6	4	5.0E-05	124.6	2.006	0.854	1.153	0.97	6.1
2.650	34.941	6	4	5.0E-05	124.6	2.025	0.864	1.161	0.93	6.3
2.750	35.269	6	4	5.0E-05	124.6	2.044	0.874	1.170	0.93	6.2
2.850	35.597	6	4	5.0E-05	124.6	2.063	0.884	1.178	0.92	6.4
2.950	35.925	6	4	5.0E-05	124.6	2.082	0.895	1.187	0.92	6.2
3.050	36.253	6	6	5.0E-05	124.6	2.100	0.905	1.195	0.91	6.2
3.150	36.581	6	4	5.0E-05	124.6	2.119	0.915	1.204	0.91	6.0
3.250	36.909	6	4	5.0E-05	124.6	2.138	0.925	1.213	0.91	5.9
3.350	37.237	6	4	5.0E-05	124.6	2.157	0.936	1.221	0.91	5.1
3.450	37.565	6	4	5.0E-05	124.6	2.176	0.946	1.230	0.90	11.1
3.550	37.893	5	4	5.0E-04	121.4	2.194	0.956	1.238	0.90	34.9
3.650	38.221	9	6	5.0E-04	117.7	2.213	0.966	1.247	0.90	65.0
3.750	38.549	10	7	1.0E-15	120.9	2.232	0.977	1.256	0.89	211.9
3.850	38.877	9	6	1.0E-15	120.9	2.252	0.987	1.266	0.89	108.2
3.950	39.206	8	5	5.0E-08	121.4	2.271	0.997	1.274	0.89	41.1
4.050	39.534	4	4	5.0E-07	124.6	2.290	1.007	1.283	0.88	7.5
4.150	39.862	4	4	5.0E-06	124.6	2.309	1.018	1.291	0.88	7.4
4.250	40.190	4	4	5.0E-05	124.6	2.328	1.028	1.300	0.88	6.6
4.350	40.518	5	5	5.0E-05	124.6	2.346	1.038	1.309	0.87	7.2
4.450	40.846	5	4	5.0E-05	124.6	2.365	1.048	1.317	0.87	7.9
4.550	41.174	5	4	5.0E-05	124.6	2.384	1.059	1.326	0.87	7.7
4.650	41.502	5	4	5.0E-05	124.6	2.403	1.069	1.334	0.87	7.6
4.750	41.830	7	5	5.0E-04	117.7	2.422	1.079	1.343	0.86	11.3
4.850	42.158	9	6	5.0E-02	124.1	2.442	1.089	1.352	0.86	28.7
4.950	42.486	9	6	5.0E-02	124.1	2.461	1.100	1.362	0.86	18.8
5.050	42.814	9	6	5.0E-02	124.1	2.481	1.110	1.371	0.85	41.7
5.150	43.143	9	6	5.0E-02	124.1	2.501	1.120	1.381	0.85	40.3
5.250	43.471	9	6	5.0E-02	124.1	2.521	1.130	1.391	0.85	45.5
5.350	43.799	10	7	5.0E-02	124.1	2.541	1.141	1.401	0.84	49.7
5.450	44.127	9	6	5.0E-01	124.1	2.561	1.151	1.411	0.84	42.8
5.550	44.455	9	6	5.0E-01	124.1	2.581	1.161	1.421	0.84	45.2
5.650	44.783	10	7	5.0E+00	127.3	2.605	1.171	1.433	0.84	47.5
5.750	45.111	10	7	5.0E+00	127.3	2.626	1.182	1.444	0.83	51.5
5.850	45.439	10	7	5.0E+00	127.3	2.647	1.192	1.455	0.83	60.2
5.950	45.767	10	7	5.0E+00	127.3	2.667	1.202	1.465	0.83	56.1
6.050	46.095	10	7	5.0E+00	127.3	2.688	1.212	1.476	0.82	46.8
6.150	46.423	10	7	5.0E+00	127.3	2.709	1.222	1.487	0.82	42.7
6.250	46.751	10	7	5.0E+00	127.3	2.730	1.233	1.497	0.81	43.4
6.350	47.079	10	7	5.0E+00	127.3	2.751	1.243	1.508	0.81	47.9
6.450	47.408	10	6	5.0E+00	127.3	2.772	1.254	1.519	0.81	47.1
6.550	47.736	9	6	5.0E+00	127.3	2.793	1.264	1.529	0.81	36.7
6.650	48.064	9	6	5.0E-02	124.1	2.811	1.274	1.540	0.81	35.9
6.750	48.392	9	6	5.0E-04	117.7	2.830	1.284	1.549	0.80	31.7
6.850	48.720	9	6	5.0E-06	124.6	2.852	1.294	1.560	0.80	43.1
6.950	49.048	8	5	1.0E-15	130.5	2.872	1.304	1.569	0.80	56.5
7.050	49.376	8	5	5.0E-08	121.4	2.892	1.315	1.579	0.80	93.6
7.150	49.704	8	5	5.0E-08	121.4	2.910	1.325	1.588	0.79	92.4

Ann No 04-1968-1958-6903
CPT File T:\CP05.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-13 SBT-RO (Zone)	Col-13 SBT-ROn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Cone Re (psf)	Col-16 T Stress (tsf)	Col-17 H Stress (tsf)	Col-18 E Stress (tsf)	Col-19 OC	Col-20 SBT (lb/ft3)
16.250	53.232	6	5	5.0E-08	111.4	2.929	1.795	1.996	0.89	46.1
16.300	53.360	6	5	5.0E-08	111.4	2.947	1.805	1.502	0.89	44.1
16.450	53.856	6	5	5.0E-08	111.4	2.965	1.856	1.616	0.89	44.7
16.500	54.036	6	5	5.0E-08	111.4	2.954	1.865	1.518	0.89	44.3
16.650	54.348	6	5	5.0E-08	111.4	3.002	1.876	1.525	0.89	44.1
16.700	54.672	6	5	5.0E-08	111.4	3.020	1.886	1.534	0.86	46.5
16.850	55.001	6	5	5.0E-08	111.4	3.038	1.897	1.542	0.89	43.6
16.900	55.127	6	5	5.0E-08	111.4	3.057	1.907	1.551	0.89	43.5
16.950	55.447	6	5	5.0E-08	111.4	3.075	1.917	1.559	0.89	44.5
17.100	55.984	6	5	5.0E-08	111.4	3.093	1.927	1.568	0.89	44.4
17.150	56.313	6	5	5.0E-08	111.4	3.111	1.938	1.576	0.89	44.8
17.300	56.641	6	5	5.0E-08	111.4	3.130	1.948	1.585	0.89	44.7
17.450	56.965	6	5	5.0E-08	111.4	3.148	1.958	1.593	0.89	42.1
17.550	57.291	6	5	5.0E-08	111.4	3.167	1.968	1.602	0.89	44.3
17.650	57.625	6	5	5.0E-08	111.4	3.186	1.979	1.611	0.89	45.4
17.750	57.953	6	5	5.0E-08	111.4	3.205	1.989	1.619	0.89	42.7
17.850	58.281	6	5	5.0E-08	111.4	3.223	1.999	1.628	0.89	43.3
17.950	58.610	6	5	5.0E-08	111.4	3.242	2.009	1.637	0.89	45.8
18.150	59.536	6	5	5.0E-08	111.4	3.261	2.020	1.645	0.89	43.3
18.150	59.266	6	5	5.0E-08	111.4	3.280	2.030	1.654	0.89	43.7
18.250	59.594	6	5	5.0E-08	111.4	3.298	2.040	1.663	0.89	43.5
18.350	59.922	6	5	5.0E-08	111.4	3.317	2.050	1.671	0.89	43.5
18.450	60.251	6	5	5.0E-08	111.4	3.336	2.061	1.680	0.89	44.3
18.550	60.578	6	5	5.0E-08	111.4	3.354	2.071	1.688	0.89	45.6
18.650	60.906	6	5	5.0E-08	111.4	3.373	2.081	1.697	0.89	46.6
18.750	61.234	6	5	5.0E-08	111.4	3.392	2.091	1.706	0.89	46.2
18.850	61.562	6	5	5.0E-08	111.4	3.409	2.101	1.714	0.89	46.0
18.950	61.890	6	5	5.0E-08	111.4	3.427	2.112	1.723	0.89	45.9
19.050	62.218	6	5	5.0E-08	111.4	3.446	2.122	1.732	0.89	45.4
19.150	62.547	6	5	5.0E-08	111.4	3.464	2.132	1.740	0.89	45.1
19.250	62.875	6	5	5.0E-08	111.4	3.483	2.142	1.749	0.89	45.3
19.350	63.203	7	5	5.0E-08	111.4	3.500	2.153	1.758	0.89	44.7
19.450	63.531	6	5	5.0E-08	114.6	3.519	2.163	1.766	0.89	43.8
19.550	63.859	6	5	5.0E-08	117.7	3.535	2.173	1.774	0.89	43.6
19.650	64.187	6	5	5.0E-08	117.7	3.552	2.183	1.784	0.89	44.5
19.750	64.515	-9999	0	5.0E-08	117.7	3.570	2.194	1.793	0.89	8.4
19.850	64.843	-9999	0	5.0E-08	117.7	3.589	2.204	1.802	0.89	7.6
19.950	65.171	-9999	0	5.0E-08	117.7	3.615	2.214	1.811	0.89	8.7
20.050	65.499	7	6	5.0E-08	117.7	3.626	2.224	1.820	0.92	41.1
20.150	65.827	6	5	5.0E-08	120.9	3.656	2.235	2.021	0.92	45.1
20.250	66.155	6	6	5.0E-08	120.9	3.676	2.245	2.029	0.92	45.7
20.350	66.483	6	6	5.0E-08	124.1	3.696	2.255	2.038	0.92	45.6
20.450	66.812	6	6	5.0E-08	124.1	3.716	2.265	2.046	0.92	45.4
20.550	67.140	6	6	5.0E-08	124.1	3.735	2.275	2.055	0.92	44.6
20.650	67.468	6	6	5.0E-08	124.1	3.755	2.285	2.063	0.92	43.8
20.750	67.796	6	6	5.0E-08	124.1	3.775	2.295	2.072	0.92	37.4
20.850	68.124	6	6	5.0E-08	124.1	3.795	2.305	2.081	0.92	38.3
20.950	68.452	6	6	5.0E-08	124.1	3.816	2.315	2.090	0.92	37.8
21.050	68.780	6	6	5.0E-08	124.1	3.837	2.325	2.099	0.92	38.4
21.150	69.108	6	6	5.0E-08	124.1	3.857	2.335	2.108	0.92	38.3
21.250	69.436	6	6	5.0E-08	124.1	3.877	2.345	2.116	0.92	37.5
21.350	69.764	6	6	5.0E-08	120.9	3.897	2.356	2.125	0.92	35.8
21.450	70.092	6	6	5.0E-08	120.9	3.917	2.366	2.134	0.92	36.9
21.550	70.420	6	5	5.0E-08	117.7	3.937	2.376	2.142	0.92	37.5
21.650	70.748	6	5	5.0E-08	114.6	3.956	2.386	2.151	0.92	38.7
21.750	71.077	6	5	5.0E-08	114.6	3.975	2.396	2.160	0.89	38.3
21.850	71.405	6	5	5.0E-08	114.6	3.994	2.406	2.168	0.89	38.9
21.950	71.733	6	5	5.0E-08	114.6	4.012	2.416	2.177	0.89	38.7
22.050	72.061	6	5	5.0E-08	114.6	4.031	2.426	2.186	0.89	38.3
22.150	72.389	7	5	5.0E-08	111.4	4.050	2.436	2.195	0.89	44.5

Run No: 05-0928 1259 S702
DAT File: 7210715.002

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SAT-AQ (None)	Col-13 SAT-QCn (None)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (ksf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Ko	Col-20 OCR (ft/hr)
21.250	69.717	7	5	5.0E-07	114.6	4.062	1.950	2.113	0.69	21.7
21.300	70.045	7	5	5.0E-07	114.6	4.087	1.960	2.127	0.69	26.5
21.450	70.373	6	4	5.0E-08	111.4	4.106	1.970	2.136	0.68	36.9
21.550	70.701	6	4	5.0E-07	114.6	4.124	1.971	2.144	0.68	24.6
21.600	70.929	6	4	5.0E-07	114.6	4.143	1.991	2.152	0.68	24.5
21.750	71.357	7	5	5.0E-07	114.6	4.162	7.991	7.161	0.66	26.9
21.800	71.685	7	5	5.0E-07	114.6	4.180	2.001	2.169	0.68	27.7
21.950	72.014	6	5	5.0E-07	114.6	4.199	2.021	2.179	0.68	26.4
22.050	72.342	7	5	5.0E-07	114.6	4.218	2.032	2.186	0.66	26.9
22.150	72.670	7	5	5.0E-07	114.6	4.237	2.042	2.195	0.66	27.7
22.250	72.998	7	5	5.0E-06	114.6	4.256	2.052	2.203	0.67	28.6
22.300	73.126	8	5	5.0E-06	114.6	4.274	2.062	2.212	0.67	29.4
22.450	73.454	8	5	5.0E-06	114.6	4.293	2.073	2.221	0.67	29.5
22.550	73.782	8	5	5.0E-06	114.6	4.312	2.083	2.230	0.67	21.4
22.650	74.110	8	5	5.0E-06	114.6	4.331	2.093	2.238	0.67	21.8
22.750	74.638	8	5	5.0E-07	114.6	4.350	2.104	2.246	0.67	71.0
22.800	74.765	8	5	5.0E-07	114.6	4.368	2.114	2.255	0.67	30.9
22.950	75.294	7	4	5.0E-08	111.4	4.387	2.124	2.263	0.66	35.6
23.050	75.622	3	1	5.0E-08	111.4	4.405	2.134	2.271	0.66	41.9
23.150	75.951	3	1	5.0E-07	114.6	4.424	2.144	2.279	0.66	31.0
23.250	76.279	3	1	5.0E-06	114.6	4.443	2.155	2.288	0.66	27.1
23.350	76.607	3	1	5.0E-06	114.7	4.462	2.165	2.297	0.66	22.2
23.450	76.935	3	1	5.0E-06	114.7	4.481	2.175	2.305	0.66	25.2
23.550	77.263	3	1	5.0E-06	114.7	4.501	2.185	2.314	0.66	23.9
23.650	77.591	3	1	5.0E-06	114.7	4.520	2.196	2.324	0.66	30.6
23.750	77.919	3	1	5.0E-06	114.7	4.540	2.206	2.330	0.65	30.9
23.850	78.247	3	1	5.0E-06	114.7	4.560	2.216	2.341	0.65	32.4
23.950	78.575	3	1	5.0E-06	114.7	4.580	2.226	2.350	0.65	35.0
24.050	78.903	3	1	5.0E-06	114.7	4.600	2.237	2.360	0.65	15.2
24.150	79.231	-9999.0	4	5.0E-06	114.7	4.620	2.247	2.370	0.65	12.2
24.250	79.559	7	5	5.0E-06	114.7	4.641	2.257	2.380	0.65	13.5
24.350	79.887	6	4	5.0E-06	111.4	4.660	2.267	2.390	0.65	11.3
24.450	80.216	7	4	5.0E-06	111.4	4.679	2.278	2.401	0.65	35.5
24.550	80.544	6	5	5.0E-08	111.4	4.697	2.288	2.407	0.64	33.1
24.650	80.872	7	4	5.0E-08	111.4	4.716	2.298	2.417	0.64	31.8
24.750	81.200	8	4	5.0E-08	111.4	4.734	2.308	2.429	0.64	32.6
24.850	81.528	8	4	5.0E-07	111.4	4.752	2.319	2.451	0.64	45.8
24.900	81.856	8	4	5.0E-07	111.4	4.770	2.329	2.441	0.64	41.2
25.050	82.184	8	4	5.0E-07	111.4	4.788	2.339	2.449	0.64	47.9
25.150	82.512	8	4	5.0E-07	111.4	4.807	2.349	2.457	0.64	45.3
25.250	82.840	8	5	5.0E-07	111.4	4.825	2.361	2.465	0.64	42.4
25.350	83.268	7	5	5.0E-07	114.6	4.844	2.372	2.474	0.64	27.1
25.450	83.496	8	4	5.0E-07	114.6	4.862	2.382	2.482	0.63	29.0
25.550	83.824	7	4	5.0E-07	111.4	4.881	2.392	2.491	0.63	39.0
25.650	84.153	6999.0	4	5.0E-08	111.4	4.899	2.402	2.499	0.63	35.0
25.750	84.481	7	4	5.0E-08	111.4	4.917	2.411	2.507	0.63	34.3
25.850	84.809	7	4	5.0E-08	111.4	4.936	2.421	2.515	0.63	34.8
25.950	85.137	8	5	5.0E-08	111.4	4.954	2.431	2.523	0.63	43.8
26.050	85.465	8	5	5.0E-08	111.4	4.972	2.441	2.531	0.63	42.3
26.150	85.793	7	4	5.0E-06	111.4	4.990	2.452	2.539	0.63	37.9
26.250	86.121	8	5	5.0E-06	111.4	5.009	2.462	2.547	0.63	41.7
26.350	86.449	8	4	5.0E-06	111.4	5.027	2.472	2.555	0.63	38.5
26.450	86.777	7	4	5.0E-06	111.4	5.045	2.482	2.563	0.62	34.0
26.550	87.105	7	4	5.0E-06	111.4	5.064	2.492	2.571	0.62	31.3
26.450	87.433	-9999.0	4	5.0E-06	111.4	5.082	2.502	2.579	0.62	36.5
26.750	87.761	-9999.0	4	5.0E-07	114.6	5.100	2.513	2.587	0.62	28.2
26.850	88.089	8	4	5.0E-06	114.6	5.119	2.523	2.596	0.62	30.9
26.950	88.418	8	5	5.0E-07	117.7	5.138	2.535	2.605	0.62	38.5
27.050	88.746	8	5	5.0E-06	114.6	5.157	2.544	2.617	0.62	26.0
27.150	89.074	8	5	5.0E-06	114.6	5.176	2.554	2.622	0.62	26.5

C

Run No. 05-DACE-1258-5703
CPT File: T21CPC5.DCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-HQ (Zone)	Col-13 SBT-HQn (Zone)	Col-14 Zone-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 V Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 N60 (b/ft)
27.250	89.402	5	4	5.0E-05	114.6	5.195	2.554	2.611	0.62	15.4
27.350	89.730	5	4	5.0E-06	114.6	5.214	2.575	2.619	0.62	20.5
27.450	90.056	6	4	5.0E-06	114.6	5.232	2.585	2.648	0.61	18.6
27.550	90.366	6	4	5.0E-06	114.6	5.251	2.595	2.656	0.61	16.0
27.650	90.724	6	4	5.0E-06	114.6	5.270	2.605	2.665	0.61	24.4
27.750	91.042	6	4	5.0E-06	114.6	5.285	2.616	2.673	0.61	21.3
27.850	91.370	6	4	5.0E-06	114.6	5.308	2.626	2.682	0.61	24.5
27.950	91.690	7	5	5.0E-05	114.6	5.325	2.636	2.690	0.61	23.5
28.050	92.024	6	4	5.0E-06	114.6	5.345	2.646	2.699	0.61	26.7
28.150	92.355	7	5	5.0E-03	111.4	5.364	2.657	2.707	0.61	52.6
28.250	92.651	7	5	5.0E-03	111.4	5.382	2.667	2.715	0.61	50.5
28.350	93.011	7	5	5.0E-03	111.4	5.400	2.677	2.723	0.61	51.5
28.450	93.335	8	5	5.0E-05	111.4	5.419	2.687	2.731	0.61	47.3
28.550	93.667	8	5	5.0E-05	111.4	5.437	2.698	2.740	0.60	41.5
28.650	93.995	7	5	5.0E-07	114.6	5.455	2.708	2.748	0.60	25.2
28.750	94.323	7	5	5.0E-07	117.7	5.474	2.718	2.756	0.60	22.2
28.850	94.651	8	4	5.0E-15	114.6	5.494	2.729	2.765	0.60	26.0

Interpretation Output - Release 1.22 Rev. A Build 6 Format: NAD Imperial
Run No: 01-0106-1258-5703
Job No: 05-002
Client: GeoSyntec Consultants
Project Pigeon Point Landfill - Wilmington, Delaware
Site CPT-05-005
Location Pigeon Point
Cone 20 TON A0151
CPT Date: 05/07/01
CPT Time: 07:47
CPT File: T01CP05 COR
Northing (ft): 1.000000
Easting (ft): 1.000000
Elevation (ft): 0.000000

Water Table (ft): 2.22 Gamma: 7.1
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (ft): 0.10
Qc Cut Used: 25.00 Su/P' Cut: 1.00
Qc Method: Danziger-Duncan - All Sands
Alpha Parameter N: 1.21
Used Unit Weights Reverted to Soil Zones
Nc=15 Calculated using qnet
Nk=15 Calculated using qnet

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Ni(60) (blows/ft)	Col-04 Ni(60)c (blows/ft)	Col-23 Ni(60)c (blows/ft)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col 27 Ic	Col-28 Qt (%)	Col-29 Colour Code
0.050	0.164	0.0	-9999.0	-9999.0	1032.65	1.96	0.00	>55.0	-9999.0	0
0.100	0.492	34.6	3.8	22.9	671.15	1.35	0.01	1.87	12.2	6
0.150	0.820	21.7	-9999.0	-9999.0	781.12	1.49	0.00	-9999.0	9999.0	0
0.200	1.148	35.5	-9999.0	9999.0	826.58	2.00	0.01	9999.0	-9999.0	0
0.250	1.476	30.5	-9999.0	9999.0	664.60	2.19	0.01	9999.0	-9999.0	0
0.300	1.804	37.7	-9999.0	-9999.0	771.09	3.07	-0.02	-9999.0	-9999.0	0
0.350	2.133	37.4	2.6	12.8	66.51	3.07	-0.04	2.49	31.0	5
0.400	2.461	37.5	5.1	13.5	160.22	2.09	0.00	2.19	22.2	5
0.450	2.789	28.8	5.5	14.0	151.51	2.08	0.00	2.19	22.1	5
0.500	3.117	23.4	5.7	16.1	163.21	2.06	0.00	2.23	23.6	5
0.550	3.445	37.4	5.3	12.2	111.46	2.28	0.00	2.29	24.8	5
0.600	3.773	37.5	2.4	7.9	60.06	3.56	0.00	2.71	41.0	6
0.650	4.101	9.7	2.5	7.6	48.21	1.82	0.01	2.48	31.0	5
0.700	4.429	17.7	0.4	6.6	41.56	1.91	0.01	2.55	32.8	5
0.750	4.757	17.9	0.7	10.2	67.03	1.41	0.00	2.52	33.7	5
0.800	5.085	10.8	4.1	11.5	93.07	1.65	0.00	2.53	33.5	5
0.850	5.413	22.8	3.3	15.5	126.53	1.47	0.01	2.32	28.7	5
0.900	5.741	26.0	6.9	15.9	135.16	0.93	0.00	1.95	18.3	5
0.950	6.069	32.6	14.6	23.2	229.49	0.75	0.01	1.72	8.8	4
1.000	6.398	38.6	14.4	24.2	158.68	1.04	0.01	1.96	12.6	4
1.050	6.726	24.4	4.3	11.4	39.84	5.44	0.02	2.71	45.4	6
1.100	7.054	23.8	10.1	26.3	111.35	1.91	0.00	2.04	19.2	5
1.150	7.382	56.3	26.0	40.9	418.11	1.97	0.00	1.91	18.7	6
1.200	7.710	50.7	-9999.0	-9999.0	935.05	3.64	0.00	-9999.0	9999.0	0
1.250	8.038	76.1	29.4	45.3	343.93	1.96	0.01	1.68	9.9	6
1.300	8.366	46.4	-9999.0	-9999.0	216.44	2.65	0.00	-9999.0	-9999.0	0
1.350	8.694	28.0	10.2	25.4	99.31	2.25	-0.01	2.26	21.2	5
1.400	9.022	13.4	5.5	8.5	45.07	1.92	0.00	2.45	27.5	5
1.450	9.350	14.5	6.2	9.5	51.91	2.96	-0.01	2.50	29.3	5
1.500	9.678	18.5	8.8	14.0	82.42	1.56	0.00	2.25	19.9	5
1.550	10.006	11.4	5.3	7.9	41.59	1.83	0.00	2.49	31.3	5
1.600	10.334	17.8	5.4	7.5	46.37	1.16	0.00	2.24	21.9	5

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Si(IGC) (b/ft)	Col-22 Si(GLI)c (b/ft)	Col-23 Si(GSI)c (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Rq	Col 27 Ic	Col 28 IC (%)	Col-29 Lobate (Zone)
3.250	10.663	22.7	17.2	17.9	321.40	0.63	0.00	1.74	6.0	6
3.300	10.991	22.7	17.5	17.7	330.19	0.62	0.00	1.74	7.3	6
3.450	11.319	20.6	14.3	20.1	190.27	1.03	0.00	2.01	15.0	5
3.500	11.647	24.5	19.7	21.6	595.01	1.05	0.06	1.81	8.4	6
3.650	11.975	24.2	26.6	22.7	143.62	1.97	0.00	2.17	15.7	5
3.700	12.303	65.6	26.0	35.8	252.65	1.69	0.00	1.97	8.8	6
3.850	12.631	25.6	22.5	17.1	104.60	1.69	0.00	2.14	17.1	5
3.900	12.959	22.8	20.4	21.9	76.46	2.52	0.00	2.35	24.5	5
4.050	13.287	27.1	9.9	13.9	68.94	1.33	-0.01	2.21	19.2	5
4.100	13.615	27.8	9.5	13.6	71.04	1.31	0.00	2.21	21.2	5
4.250	13.943	21.6	6.9	7.9	17.78	3.69	0.01	1.62	31.7	5
4.300	14.271	25.6	7.8	10.2	63.45	3.62	0.01	2.45	25.8	5
4.450	14.600	27.0	12.4	14.1	88.25	3.36	0.01	2.26	21.9	5
4.500	14.928	31.2	15.0	19.1	107.89	2.46	0.00	2.25	20.1	5
4.650	15.256	17.9	7.6	11.9	45.64	3.50	0.01	2.57	33.8	5
4.700	15.584	19.7	6.9	9.5	16.14	5.51	0.01	2.70	60.1	4
4.850	15.912	13.4	6.8	7.1	24.66	4.52	0.00	2.79	45.2	4
4.900	16.240	15.3	5.5	10.1	50.80	2.69	-0.01	2.59	29.8	5
5.050	16.568	13.4	7.1	9.2	41.35	2.72	-0.01	2.56	33.2	5
5.100	16.896	13.6	6.3	7.9	10.38	1.38	-0.01	2.39	36.0	5
5.250	17.224	15.9	8.1	10.2	48.58	1.92	-0.01	2.39	26.1	5
5.300	17.552	11.1	5.3	7.5	26.80	3.16	0.00	2.69	39.1	4
5.450	17.880	14.9	6.7	8.2	35.42	2.77	0.01	2.59	35.2	5
5.500	18.208	18.6	10.6	12.5	66.65	1.56	0.00	2.26	19.5	5
5.650	18.537	11.1	4.5	9.2	35.71	3.01	0.00	2.58	34.3	5
5.700	18.865	15.4	8.1	9.5	45.63	1.84	0.00	2.29	20.1	5
5.850	19.193	28.8	15.7	18.7	103.44	1.38	0.00	2.04	14.1	6
5.900	19.521	21.1	10.3	12.7	56.08	1.70	-0.00	2.32	21.6	5
6.050	19.849	11.1	5.4	7.1	25.61	2.74	-0.01	2.65	37.4	4
6.100	20.177	11.1	6.8	7.9	34.60	1.85	-0.01	2.48	29.4	5
6.250	20.505	9.7	3.1	3.6	10.19	4.06	-0.04	3.07	69.1	3
6.300	20.833	11.1	7.0	10.4	46.59	2.27	-0.01	2.43	27.7	5
6.450	21.162	29.1	14.6	19.6	66.72	1.57	-0.01	2.13	16.6	5
6.500	21.489	49.6	35.2	40.2	225.93	1.77	0.00	1.81	9.6	6
6.650	21.817	32.1	25.9	24.8	101.90	2.77	0.00	1.96	1.5	6
6.700	22.145	101.1	-9999.0	-9999.0	166.97	2.09	0.00	-9999.0	-9999.0	0
6.850	22.473	69.1	47.7	51.4	315.91	1.62	0.00	1.73	5.7	6
6.900	22.802	48.4	21.4	23.9	113.40	3.22	0.00	2.25	21.1	5
7.050	23.130	19.9	12.2	13.6	65.15	1.35	-0.01	2.17	17.9	5
7.100	23.458	16.1	10.0	11.0	51.52	1.01	-0.01	2.15	17.6	5
7.250	23.786	11.1	6.1	5.9	21.25	3.06	-0.01	2.77	44.6	4
7.300	24.114	10.8	3.6	10.2	45.21	2.29	0.01	2.42	27.6	5
7.450	24.442	21.1	13.6	15.0	69.50	1.90	-0.01	2.23	20.1	5
7.500	24.770	14.1	9.0	9.7	43.03	2.60	-0.01	2.51	30.8	5
7.650	25.098	23.2	13.7	14.8	63.45	1.80	-0.01	2.22	19.6	5
7.700	25.426	26.6	15.4	16.5	76.58	1.76	-0.01	2.13	25.9	5
7.850	25.754	29.1	17.4	18.5	45.95	4.56	0.00	2.01	35.7	4
7.900	26.082	11.5	7.1	8.2	32.27	1.96	0.00	2.42	29.8	5
8.050	26.410	7.4	4.1	4.7	16.47	2.80	-0.01	2.83	47.5	4
8.100	26.739	25.7	20.5	22.0	108.62	1.52	0.00	2.01	13.4	6
8.250	27.067	44.3	39.6	41.4	236.03	0.96	0.00	1.84	5.0	6
8.300	27.395	28.5	14.4	14.9	58.50	4.31	-0.01	2.41	31.0	5
8.450	27.723	25.5	15.5	11.2	41.20	4.06	-0.01	2.60	35.5	4
8.500	28.051	31.2	19.3	19.9	85.72	3.03	0.00	2.30	22.4	5
8.650	28.379	45.1	28.6	29.6	140.19	2.23	0.00	2.06	14.5	5
8.700	28.707	18.6	8.4	8.1	27.52	4.98	-0.02	2.79	45.6	4
8.850	29.035	8.3	5.1	4.7	15.46	7.65	-0.05	3.03	67.8	4
8.900	29.363	9.2	4.6	4.6	16.61	1.98	-0.06	2.75	44.9	4
9.050	29.691	13.9	9.5	3.3	34.84	2.27	-0.02	2.48	30.8	5
9.100	30.019	17.8	11.6	11.7	41.91	1.00	-0.01	2.52	30.9	5

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Col-01 Depth (ft)	Col-02 Depth (ft)	Col-21 NPHI (%)	Col-22 NPHILIM (%)	Col-23 NPHILIMC (%)	Col-24 QS	Col-25 PE (B)	Col-26 DQ	Col-27 LC	Col-28 PD (g)	Col-29 ICZone: Zone:
7.250	30.341	23.5	14.6	14.6	56.41	2.86	-0.01	2.36	25.7	5
9.350	30.675	27.9	15.1	15.1	61.61	2.97	-0.01	2.17	18.1	5
9.450	31.064	25.4	15.7	15.6	62.62	2.86	-0.01	2.35	24.7	5
9.550	31.332	16.9	9.2	9.5	39.63	1.44	-0.02	2.55	37.8	4
9.650	31.650	10.6	6.1	3.6	8.39	4.02	0.05	3.16	70.0	3
9.750	31.956	6.8	3.2	2.6	6.03	1.66	0.04	2.91	62.5	4
9.950	32.316	5.2	2.4	2.9	6.98	1.46	-0.03	2.69	51.2	4
9.350	32.644	5.3	2.1	1.6	12.97	1.14	-0.02	2.70	40.5	4
10.050	32.917	4.5	2.6	2.9	9.59	1.14	-0.01	2.80	46.0	4
10.150	33.223	4.4	2.4	2.7	9.17	0.78	-0.02	2.74	42.6	4
10.250	33.628	4.4	2.4	2.7	9.01	0.84	-0.02	2.76	43.6	4
10.350	33.951	4.5	2.6	2.9	9.34	0.95	0.03	2.77	44.3	4
10.450	34.284	4.5	2.6	2.7	5.71	1.30	0.05	2.56	69.4	4
10.550	34.612	4.7	2.8	3.0	5.76	1.29	0.06	2.62	66.6	4
10.650	34.941	4.9	4.0	3.1	10.13	1.49	0.07	2.65	47.8	4
10.750	35.269	4.8	4.0	3.0	9.71	1.52	0.09	2.56	49.7	4
10.850	35.597	5.0	4.2	3.2	10.27	1.70	0.10	2.65	49.2	4
10.950	35.925	4.6	4.7	3.6	10.91	2.77	0.11	2.94	54.8	4
11.050	36.252	5.6	4.8	3.6	11.61	2.52	0.01	2.86	49.4	4
11.150	36.581	5.3	4.6	3.5	10.91	1.76	0.06	2.84	48.5	4
11.250	36.909	5.8	4.8	3.6	11.88	1.81	0.09	2.81	44.7	4
11.350	37.237	6.4	5.6	4.1	13.11	2.29	0.02	2.73	43.5	4
11.450	37.565	10.0	6.5	6.3	22.17	2.96	0.00	2.72	41.6	4
11.550	37.893	33.3	13.1	8.8	27.62	1.21	-0.01	2.91	52.4	4
11.650	38.221	62.2	-9999.0	-9999.0	112.09	2.81	0.01	-9999.0	-1999.0	0
11.750	38.549	105.2	-9999.0	9999.0	184.28	3.10	0.00	-9999.0	-1999.0	0
11.850	38.877	54.4	-9999.0	9999.0	115.42	3.17	0.00	-9999.0	-1999.0	0
11.950	39.206	32.2	11.5	8.8	27.82	1.21	-0.02	2.90	52.1	4
12.050	39.534	6.7	4.3	2.8	7.64	1.04	-0.05	1.51	20.1	3
12.150	39.862	6.5	4.9	3.2	10.26	2.60	-0.02	2.96	54.9	4
12.250	40.190	5.7	5.1	3.6	11.29	3.29	-0.01	2.87	51.2	4
12.350	40.518	6.7	5.7	4.0	13.56	1.98	0.02	2.74	43.9	4
12.450	40.846	6.9	5.1	3.5	12.46	1.51	0.04	2.74	47.0	4
12.550	41.174	5.8	5.5	3.6	11.17	1.42	0.08	2.70	45.3	4
12.650	41.502	6.0	5.6	3.6	11.04	2.01	0.07	2.84	48.2	4
12.750	41.830	11.2	9.4	8.1	28.34	1.38	0.07	2.57	29.1	5
12.850	42.158	26.7	27.2	21.9	108.36	0.75	0.00	1.75	7.1	5
12.950	42.486	33.3	18.0	31.5	147.01	0.82	0.00	1.58	5.9	6
13.050	42.814	37.3	19.4	36.5	164.25	0.73	0.00	1.51	4.6	6
13.150	43.143	36.1	41.6	36.1	171.94	0.75	0.00	1.50	4.6	6
13.250	43.471	38.0	42.1	37.5	169.19	1.19	0.00	1.75	7.1	6
13.350	43.799	41.6	45.1	39.9	180.71	0.95	0.00	1.54	5.4	5
13.450	44.127	15.7	19.1	32.6	165.05	0.86	0.00	1.64	5.6	5
13.550	44.456	37.4	49.2	34.3	164.08	0.53	0.00	1.54	3.5	5
13.650	44.784	39.7	45.4	41.3	205.32	0.49	0.00	1.42	1.7	5
13.750	45.112	44.5	52.6	44.5	210.14	0.35	0.00	1.29	0.3	1
13.850	45.440	42.9	60.7	51.4	257.53	0.54	0.00	1.30	1.3	6
13.950	45.767	43.8	55.3	50.2	250.78	0.52	0.00	1.27	1.1	6
14.050	46.095	38.6	46.6	39.5	195.95	0.38	0.00	1.36	1.6	6
14.150	46.423	38.0	42.1	35.5	177.92	0.21	0.00	1.31	0.5	6
14.250	46.751	38.6	42.6	35.6	179.96	0.25	0.00	1.29	0.4	7
14.350	47.079	34.7	41.7	34.7	176.41	0.20	0.00	1.26	0.0	7
14.450	47.405	34.2	42.5	33.5	171.91	0.24	0.00	1.27	0.0	7
14.550	47.736	29.7	37.1	30.7	148.47	0.29	0.00	1.19	1.4	6
14.650	48.064	32.2	36.6	30.0	133.47	0.59	-0.01	1.44	5.0	6
14.750	48.392	30.3	25.4	20.5	74.53	3.36	0.02	2.19	28.7	5
14.850	48.720	24.5	21.5	17.6	56.96	5.93	-0.03	2.43	37.7	5
14.950	49.048	45.1	16.9	10.7	45.81	5.16	-0.03	2.19	45.2	4
15.050	49.376	42.8	16.7	10.5	43.79	7.52	-0.03	2.86	49.4	4
15.150	49.704	41.6	16.3	10.2	42.68	7.44	-0.03	2.88	49.1	4

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Si(65) (b/ft)	Col-22 Si(50)2a (b/ft)	Col-23 Si(65)1a (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Rq	Col-27 Ic	Col-28 Vs (m/s)	Col-29 Soil Behavior Chart
15.250	50.032	35.7	14.3	8.8	27.69	1.13	<0.01	2.56	51.9	6
15.350	50.360	34.5	13.7	8.3	26.88	1.01	<0.01	2.56	49.6	6
15.450	50.688	34.0	13.9	8.5	27.79	1.02	<0.01	2.51	47.6	6
15.550	51.016	35.4	14.0	8.5	28.01	1.05	<0.01	2.51	44.9	6
15.650	51.345	36.2	14.0	8.6	27.78	1.08	<0.01	2.49	47.1	6
15.750	51.673	35.6	13.9	8.3	27.26	1.05	<0.01	2.52	47.4	6
15.850	52.001	33.9	13.5	8.0	25.77	1.00	<0.01	2.56	49.9	6
15.950	52.329	34.2	13.8	8.1	25.92	1.15	<0.01	2.57	50.6	6
16.050	52.657	34.2	14.0	8.2	25.89	1.21	<0.01	2.59	51.6	7
16.150	52.985	34.8	14.2	8.3	26.27	1.05	<0.01	2.59	51.2	6
16.250	53.313	33.9	13.9	8.1	25.67	1.07	<0.01	2.60	51.7	6
16.350	53.641	35.2	14.3	8.3	26.63	1.19	<0.01	2.57	50.1	6
16.450	53.969	25.2	14.8	8.6	28.45	1.42	<0.01	2.51	48.6	6
16.550	54.297	26.7	15.4	8.7	28.24	1.98	<0.01	2.76	45.9	6
16.650	54.625	25.7	14.9	8.7	29.54	1.45	<0.01	2.76	42.6	6
16.750	54.953	24.3	14.1	7.4	25.73	1.71	<0.01	2.78	42.1	6
16.850	55.281	24.8	13.6	6.5	21.75	1.61	<0.01	2.78	44.6	6
16.950	55.610	23.8	13.6	6.4	21.87	1.25	<0.01	2.74	42.6	6
17.050	55.938	23.4	13.5	7.2	24.57	1.57	<0.01	2.84	43.2	6
17.150	56.266	23.6	13.1	7.2	23.03	1.47	<0.01	2.88	46.6	6
17.250	56.594	23.3	14.3	7.7	25.62	1.64	<0.01	2.81	44.4	6
17.350	56.922	24.8	14.6	8.0	26.35	1.51	<0.01	2.81	47.5	6
17.450	57.250	25.6	15.4	8.5	28.22	1.46	<0.01	2.81	46.7	6
17.550	57.578	27.1	15.5	8.5	27.14	1.30	<0.01	2.83	48.5	6
17.650	57.906	26.1	15.4	8.4	26.44	1.70	<0.01	2.87	51.7	6
17.750	58.234	28.1	15.7	8.7	27.78	1.39	<0.01	2.86	49.8	6
17.850	58.562	27.9	15.7	8.8	27.57	1.24	<0.01	2.86	49.5	6
17.950	58.891	28.6	15.8	8.3	25.70	1.33	<0.01	2.83	50.5	6
18.050	59.219	28.6	15.4	8.2	25.47	1.30	<0.01	2.87	47.9	6
18.150	59.547	28.3	15.3	8.2	26.00	1.28	<0.01	2.87	50.2	6
18.250	59.875	31.5	15.5	7.3	22.37	1.61	<0.01	2.81	51.6	6
18.350	60.203	27.0	12.1	4.7	14.81	1.70	<0.01	2.45	50.6	5
18.450	60.531	19.6	10.3	4.2	20.59	2.05	<0.01	3.02	44.9	6
18.550	60.859	11.5	12.3	7.0	24.56	2.02	<0.01	2.46	21.0	5
18.650	61.187	10.6	10.1	7.3	21.33	1.45	<0.01	2.42	25.5	5
18.750	61.515	5.1	7.3	3.5	17.04	1.71	<0.01	2.74	42.7	6
18.850	61.843	5.4	6.1	3.9	13.41	0.71	<0.01	2.47	33.1	6
18.950	62.172	6.3	6.1	4.5	12.49	1.23	<0.01	2.26	5.2	5
19.050	62.500	6.2	7.6	5.0	10.66	1.39	<0.01	2.16	5.0	5
19.150	62.828	21.3	12.4	9.2	31.26	0.29	<0.01	1.94	5.2	6
19.250	63.156	24.2	16.1	11.5	<0.16	0.64	<0.01	1.95	11.6	6
19.350	63.485	24.0	19.4	14.3	50.15	0.65	<0.01	1.88	5.6	6
19.450	63.813	22.5	26.0	21.2	82.14	0.45	<0.01	1.66	5.0	6
19.550	64.141	27.6	23.4	17.0	61.43	0.63	<0.01	1.76	5.0	6
19.650	64.469	30.3	39.0	29.6	101.09	0.64	<0.01	1.64	5.1	6
19.750	64.798	30.0	33.9	24.6	96.87	1.47	<0.01	1.91	4.9	6
19.850	65.126	27.3	28.9	20.9	76.85	0.71	<0.01	1.79	1.9	5
19.950	65.454	19.2	25.9	18.7	65.01	0.55	<0.01	1.76	1.9	5
20.050	65.782	21.4	28.1	20.3	76.99	0.65	<0.01	1.68	5.0	5
20.150	66.108	22.7	30.6	22.2	81.67	0.72	<0.01	1.72	7.4	6
20.250	66.436	19.3	27.1	19.6	68.80	0.86	<0.01	1.88	5.8	5
20.350	66.764	18.9	22.4	16.0	52.68	1.06	<0.01	2.02	13.4	5
20.450	67.092	14.4	16.2	12.6	40.76	0.97	<0.01	2.08	11.2	5
20.550	67.420	11.9	13.2	8.5	29.01	2.14	<0.01	2.60	35.4	6
20.650	67.749	15.1	15.2	8.1	26.04	1.76	<0.01	2.33	46.5	6
20.750	68.077	15.6	15.4	8.1	25.44	4.71	<0.01	2.89	52.2	6
20.850	68.405	20.5	15.8	8.3	29.29	4.98	<0.01	2.68	52.1	6
20.950	68.733	16.4	14.2	8.6	31.70	1.91	<0.01	2.19	45.5	6
21.050	69.061	18.1	12.8	8.7	31.62	1.07	<0.01	2.05	53.5	6
21.150	69.389	21.8	12.0	8.3	35.18	0.85	<0.01	1.84	41.7	5

Run No 05-9908-1258-5791
CFT File: 7215705 COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Ni(60) (b/ft3)	Col-22 Ni(60)ic (b/ft3)	Col-23 Ni(60)ic (b/ft3)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 IcZone (Zone)
23.250	69.317	26.3	22.0	5.3	35.57	4.62	0.04	3.00	58.6	3
23.100	93.045	28.1	24.3	5.8	37.56	3.31	0.08	2.96	55.6	3
21.450	70.374	25.1	17.5	5.5	26.26	5.77	0.03	3.01	59.0	3
21.550	70.703	10.6	12.3	5.3	26.03	5.05	0.14	2.97	56.6	3
21.650	71.025	16.7	12.2	5.3	25.96	4.97	0.12	2.97	56.4	3
21.757	71.357	10.2	15.0	5.7	27.47	4.35	1.01	2.93	54.0	4
21.861	71.685	10.5	13.7	6.0	28.08	5.50	0.08	2.96	56.6	3
21.959	72.014	17.9	12.9	5.8	27.05	4.93	0.05	2.96	55.8	4
22.059	72.342	17.5	12.8	5.5	26.62	5.06	0.05	2.96	55.8	3
22.159	72.670	16.0	12.1	5.3	26.06	5.01	0.01	2.91	55.1	3
22.259	72.998	12.7	12.4	5.9	25.91	6.50	0.03	2.96	56.6	4
22.359	73.326	12.6	12.2	5.3	25.41	4.41	-0.01	2.91	55.7	3
22.459	73.654	23.1	22.6	5.3	26.40	6.10	-0.03	2.93	56.0	4
22.559	73.982	24.3	23.6	5.8	28.22	4.44	-0.03	2.87	51.7	4
22.659	74.310	25.6	24.5	6.1	29.54	4.36	-0.01	2.68	50.6	4
22.759	74.638	26.7	25.0	6.3	29.70	5.32	-0.04	2.82	53.2	4
22.859	74.966	26.6	24.6	6.2	29.56	4.52	-0.04	2.80	52.9	4
22.961	75.294	23.6	23.1	5.3	26.60	7.46	-0.05	3.11	66.5	3
23.060	75.622	27.6	24.6	6.0	27.31	5.72	-0.01	3.03	60.4	3
23.161	75.950	26.6	24.7	6.1	29.33	4.32	-0.04	2.90	51.9	4
23.260	76.279	22.9	18.4	7.5	28.94	2.81	-0.02	2.61	36.9	4
23.361	76.607	24.7	20.4	11.1	28.60	2.23	-0.02	2.40	26.3	5
23.461	76.935	22.8	22.3	15.9	44.85	1.25	-0.01	2.05	15.6	5
23.561	77.264	22.3	28.3	16.5	59.16	1.19	-0.01	1.99	12.7	6
23.661	77.591	20.2	29.7	19.5	66.76	0.71	-0.01	1.81	9.5	6
23.760	77.919	20.1	29.9	20.2	66.87	0.72	-0.02	1.81	9.6	6
23.859	78.247	21.6	31.3	20.9	72.90	0.55	-0.01	1.77	7.6	6
23.959	78.575	23.6	29.5	19.7	64.51	0.30	-0.03	1.85	7.3	6
24.010	78.903	5.9	23.9	9.2	24.05	1.00	-0.01	2.22	19.9	4
24.150	79.231	4.9	13.5	4.1	14.19	1.59	-0.07	2.12	41.6	3
24.250	79.559	5.8	11.4	4.4	15.05	1.69	0.05	2.05	38.5	4
24.350	79.887	11.2	11.2	4.3	13.13	3.46	0.10	2.54	51.3	4
24.450	80.216	23.6	11.0	4.9	12.94	6.35	0.06	3.07	63.8	3
24.550	80.544	21.6	11.8	7.1	14.55	7.24	0.01	3.10	65.2	3
24.650	80.872	23.1	11.4	7.0	13.53	7.72	-0.03	3.15	69.1	3
24.750	81.200	24.9	21.5	5.1	14.77	6.00	-0.04	3.05	61.7	3
24.850	81.529	26.2	13.9	5.3	15.56	5.65	0.03	3.01	59.4	3
24.950	81.856	24.4	14.2	5.6	15.69	5.50	0.02	3.01	60.7	3
25.050	82.184	10.5	16.3	6.1	18.41	6.72	0.03	3.01	59.1	3
25.150	82.512	29.5	16.2	6.2	19.54	7.04	-0.03	3.07	61.1	3
25.250	82.840	27.0	15.4	5.8	25.99	8.07	-0.01	3.11	65.1	3
25.350	83.168	17.6	14.0	5.3	25.65	6.15	0.01	3.01	58.1	3
25.450	83.496	18.4	14.6	5.5	26.36	6.39	-0.05	2.98	57.4	3
25.550	83.824	24.7	14.3	5.3	24.29	7.52	-0.02	3.12	67.0	3
25.650	84.153	22.1	13.3	4.4	22.65	7.11	-0.07	3.18	71.3	3
25.750	84.481	22.3	24.5	4.9	22.76	8.09	-0.07	3.18	71.5	3
25.850	84.809	24.5	20.1	5.2	24.14	7.23	0.05	3.12	64.6	3
25.950	85.137	27.0	15.1	5.6	26.35	6.24	0.04	3.03	60.5	3
26.050	85.465	20.6	15.1	5.5	25.49	7.08	-0.05	3.04	64.0	3
26.150	85.793	23.4	13.7	4.3	21.44	7.21	-0.05	3.13	67.9	3
26.250	86.121	25.7	24.0	5.3	24.67	6.47	-0.05	3.07	61.6	3
26.350	86.449	24.6	24.4	5.2	24.21	7.48	-0.03	3.13	67.4	3
26.450	86.777	21.2	22.9	4.9	21.88	7.15	-0.03	3.17	70.6	3
26.550	87.105	19.5	22.3	4.9	20.75	7.73	-0.02	3.22	74.8	3
26.650	87.433	22.4	23.9	4.6	22.62	6.48	-0.07	3.12	67.8	3
26.750	87.761	24.4	27.5	4.3	22.05	5.63	0.03	3.00	64.2	3
26.850	88.089	13.9	23.5	4.8	24.58	3.38	-0.05	2.92	53.0	4
26.950	88.418	11.5	15.6	5.9	28.32	2.27	-0.04	2.68	39.2	4
27.050	88.746	12.1	13.4	4.8	25.96	2.02	-0.04	2.62	46.9	4
27.150	89.074	18.7	13.2	4.6	26.45	1.65	-0.02	2.51	42.9	4

Job No: 05-0303-1256-5703
CPT File: 721CP05.COR

Col 11 Depth (m)	Col 01 Depth (ft)	Col 21 Ni(60) (lb/ft)	Col 22 Ni(60)te (lb/ft)	Col 23 Ni(60)te (lb/ft)	Col 24 Qt	Col 25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 IrZone (Zone)
27.250	89.402	9.9	11.9	4.4	13.70	3.43	0.22	2.92	50.3	4
27.350	89.740	11.6	11.6	4.7	14.21	4.28	0.21	2.91	55.2	3
27.450	90.058	11.4	11.1	4.4	12.84	4.78	0.17	3.03	60.6	3
27.550	90.304	11.0	12.5	4.2	12.17	4.73	0.16	3.05	61.6	3
27.650	90.714	14.9	12.8	4.3	12.36	4.90	0.15	3.01	61.9	3
27.750	91.042	13.0	14.3	4.9	14.68	4.71	0.15	2.94	57.2	3
27.850	91.376	14.7	15.6	5.4	16.72	4.57	0.14	2.93	53.9	4
27.950	91.698	14.3	15.9	6.0	20.78	2.71	0.06	2.71	41.2	4
28.050	92.026	15.3	16.9	5.9	18.68	4.29	0.20	2.88	50.5	4
28.150	92.355	32.0	17.6	6.3	18.30	6.04	0.07	2.98	57.3	3
28.250	92.683	35.6	17.2	6.0	17.43	6.47	0.04	3.02	59.5	3
28.350	93.011	31.1	17.7	6.3	17.70	6.97	0.05	3.03	60.7	3
28.450	93.339	25.9	16.3	5.7	16.67	5.96	0.03	3.01	58.7	3
28.550	93.667	25.2	15.4	5.3	14.54	6.47	-0.02	3.03	53.8	3
28.650	93.996	17.6	16.0	5.5	14.60	5.39	0.04	3.02	59.7	3
28.750	94.323	13.4	18.2	6.4	23.21	2.23	0.12	2.62	36.5	4
28.850	94.651	15.6	19.2	6.7	22.53	3.62	0.11	2.73	44.3	4

Interpretation Output Release 1.22 Rev. A Build 6 Format: ASCII Imperial

Run No: 05-0503-1358 6703
Job No: 05-121
Client: GeoSyntec Consultants
Project Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-005
Location Pigeon Point
Cone: 20 TSF AD197
CPT Date: 05/03/03
CPT Time: 07:47
CPT File Y:\CPTS\05-121\CPT\05-121-CPT-005.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 2.00 (Est): 2.0
Unit Weight of Water (kN/m³): 62.60 pcf
Averaging Increment (m): 0.10
Su Nkt Used 15.00 Su/P' Incl: 0.00
Dr Method Jamiolkowski - All Sands
Area Parameter N 1.00
Used Unit Weights Assigned to Soil Zones
Nkdil Calculated using qdil
Nkdcp Calculated using qtnet

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Dz (ft)	Col-04 Phi (deg)	Col-05 Soil Par	Col-06 Tn/yr	Col-07 Young's (tsf)	Col-08 Su (psf)	Col-09 OCR
0.050	0.164	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.647	10.0
0.100	0.492	70.1	50.0	-0.41	0.000	36.7	1.293	10.0
0.150	0.820	81.9	50.0	-0.44	1.873	61.6	-9999.0	-9999.0
0.200	1.148	59.5	50.0	-0.49	-9999.0	-9995.0	-9999.0	-9999.0
0.250	1.476	75.5	48.0	-0.47	1.973	78.6	3.691	10.0
0.300	1.804	-9999.0	9999.0	-9999.0	-9999.0	-9995.0	1.130	10.0
0.350	2.133	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.695	10.0
0.400	2.461	52.4	44.0	-0.10	2.691	91.6	1.517	10.0
0.450	2.789	52.5	44.0	-0.32	2.684	91.7	1.622	10.0
0.500	3.117	57.3	44.0	-0.32	2.674	75.6	2.026	10.0
1.050	3.445	67.3	42.0	-0.31	2.945	95.9	1.503	10.0
1.100	3.773	9999.0	-9999.0	-9999.0	-9999.0	-9995.0	0.519	10.0
1.150	4.101	9999.0	-9999.0	-9999.0	-9999.0	9995.0	0.663	10.0
1.200	4.429	9999.0	-9999.0	-9999.0	-9999.0	-9995.0	0.871	10.0
1.250	4.757	9999.0	-9999.0	-9999.0	-9995.0	-9995.0	0.960	10.0
1.300	5.085	66.1	42.0	-0.24	2.999	79.7	1.763	10.0
1.350	5.413	57.0	44.0	-0.25	2.688	98.0	9999.0	9999.0
1.400	5.741	59.0	44.0	-0.21	2.684	107.2	9999.0	-9999.0
1.450	6.069	75.5	46.0	-0.24	3.471	149.8	-9999.0	-9999.0
1.500	6.398	72.2	46.0	-0.28	3.619	150.5	-9999.0	-9999.0
1.550	6.726	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.991	10.0
1.600	7.054	58.4	42.0	-0.35	2.432	116.1	-9999.0	-9999.0
1.650	7.382	81.6	46.0	-0.39	-9999.0	-9999.0	-9999.0	9999.0
1.700	7.710	75.4	46.0	-0.51	1.905	134.9	6.782	10.0
1.750	8.038	70.0	48.0	-0.60	9999.0	99x0.5	-9999.0	-9999.0
1.800	8.366	91.5	48.0	-0.58	1.936	189.1	-9999.0	-9999.0
1.850	8.694	55.6	42.0	-0.29	2.540	117.1	3.905	10.0
1.900	9.022	35.8	38.0	-0.18	2.537	84.5	1.356	10.0
1.950	9.350	9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.911	10.0
2.000	9.678	61.1	42.0	-0.22	2.752	111.4	9999.0	9999.0
2.050	10.005	32.8	38.0	-0.16	-9999.0	-9999.0	1.161	10.0
2.100	10.333	35.9	38.0	-0.13	2.697	84.8	1.551	10.0

Run No: 06-0106-1256-5702
CPT File: 72307356.COS

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-10 Qc (N)	Col-11 Phi (deg)	Col-12 Scale Fac	Col-13 Su/qc	Col-14 YoungE (tsf)	Col-15 Su (tsf)	Col-16 OCR
3.250	10.663	66.7	44.0	-0.14	2.220	148.1	-9999.0	-9999.0
3.300	10.961	65.1	44.0	-0.15	2.203	143.4	-9999.0	9999.0
3.400	11.319	55.4	44.0	-0.27	2.200	153.2	-9999.0	9999.0
3.550	11.647	77.1	44.0	-0.26	1.942	205.5	-9999.0	-9999.0
3.650	11.975	86.7	44.0	-0.30	2.117	148.2	-9999.0	-9999.0
3.750	12.303	85.0	46.0	0.33	1.915	271.2	-9999.0	-9999.0
3.850	12.631	80.1	42.5	-0.25	2.366	141.8	-9999.0	-9999.0
3.950	12.959	51.5	40.0	-0.27	2.732	122.1	2.535	10.0
4.050	13.287	46.6	40.0	-0.16	2.664	117.1	-9999.0	-9999.0
4.150	13.615	49.9	40.0	-0.21	2.612	120.4	-9999.0	-9999.0
4.250	13.943	12.5	38.0	-0.16	-9999.0	-9999.0	3.017	10.0
4.350	14.271	41.3	38.0	-0.22	1.273	105.6	2.696	10.0
4.450	14.603	46.7	42.0	-0.26	2.500	116.8	1.645	10.0
4.550	14.926	52.1	42.0	-0.10	2.286	156.8	4.528	10.0
4.650	15.256	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.528	10.0
4.750	15.584	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.113	10.0
4.850	15.912	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.066	9.7
4.950	16.240	42.3	36.0	-0.23	3.275	131.7	2.266	10.0
5.050	16.568	46.1	38.0	-0.21	3.518	121.1	1.845	10.0
5.150	16.896	34.7	36.0	-0.15	3.637	59.4	1.700	10.0
5.250	17.224	41.4	38.0	-0.18	3.295	112.4	2.228	10.0
5.350	17.552	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.245	10.0
5.450	17.880	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.665	10.0
5.550	18.208	50.8	40.0	-0.19	3.246	174.6	-9999.0	-9999.0
5.650	18.537	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.720	10.0
5.750	18.865	40.5	38.0	-0.17	3.318	111.9	2.215	10.0
5.850	19.193	41.7	42.0	-0.22	3.248	174.6	-9999.0	-9999.0
5.950	19.521	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.805	10.0
6.050	19.849	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.291	10.0
6.150	20.177	51.6	38.0	-0.14	3.696	202.3	1.767	10.0
6.250	20.505	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.521	10.0
6.350	20.833	62.2	40.0	-0.20	3.224	171.4	2.413	10.0
6.450	21.162	53.7	42.0	-0.22	3.352	166.4	-9999.0	-9999.0
6.550	21.490	80.5	46.0	-0.34	-9999.0	-9999.0	-9999.0	-9999.0
6.650	21.818	95.0	48.0	-0.31	-9999.0	-9999.0	-9999.0	-9999.0
6.750	22.146	95.0	48.0	-0.34	-9999.0	-9999.0	-9999.0	-9999.0
6.850	22.474	95.0	46.0	0.35	9999.0	9999.0	9999.0	9999.0
6.950	22.802	69.2	42.0	0.37	2.140	206.6	6.345	10.0
7.050	23.130	53.1	40.0	0.18	2.670	153.4	9999.0	9999.0
7.150	23.458	47.4	40.0	-0.13	2.350	119.9	-9999.0	-9999.0
7.250	23.786	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.362	9.6
7.350	24.114	61.0	38.0	-0.20	1.297	141.2	2.637	10.0
7.450	24.442	55.1	40.0	-0.22	2.387	162.6	-9999.0	-9999.0
7.550	24.770	59.1	38.0	-0.20	3.415	124.0	7.326	10.0
7.650	25.099	55.8	40.0	-0.21	2.397	164.0	-9999.0	-9999.0
7.750	25.426	56.0	40.0	0.31	2.555	161.9	4.283	10.0
7.850	25.754	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.815	10.0
7.950	26.082	34.6	36.0	0.14	3.685	115.8	1.695	10.0
8.050	26.410	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.965	4.8
8.150	26.739	68.7	42.0	-0.26	2.146	224.0	-9999.0	-9999.0
8.250	27.067	90.7	46.0	-0.26	-9999.0	-9999.0	-9999.0	-9999.0
8.350	27.395	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.960	10.0
8.450	27.723	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.675	17.0
8.550	28.051	62.5	42.0	0.32	2.324	199.0	5.607	10.0
8.650	28.379	76.5	44.0	-0.32	1.984	278.6	-9999.0	-9999.0
8.750	28.707	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.812	10.0
8.850	29.035	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.045	4.8
8.950	29.363	10.0	32.0	-0.06	-9999.0	-9999.0	0.971	4.3
9.050	29.691	37.5	36.0	-0.16	3.647	129.8	2.325	10.0
9.150	30.019	44.8	36.0	-0.15	1.153	148.4	3.026	10.0

Run No: 05-0408-1258-5103
CPT File: T2102C5.COM

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Qc (MPa)	Col-04 Rho (deg)	Col-05 State Par	Col-06 Ks/qc	Col-07 Young's (est)	Col-08 Su (est)	Col-09 OCR
9.950	32.647	52.6	40.0	-0.26	2.715	191.2	4.056	10.0
9.960	32.675	52.8	42.0	-0.25	2.528	208.6	-9999.0	-9999.0
9.970	32.704	54.8	40.0	-0.27	2.607	192.7	4.087	10.0
9.980	32.737	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.179	10.0
9.990	32.769	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.645	2.2
9.990	32.768	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.579	1.9
9.990	32.816	-9999.0	-9999.0	-9999.0	9999.0	9999.0	3.625	2.1
9.990	32.844	30.0	30.0	0.00	9999.0	9999.0	3.920	3.5
10.000	32.872	30.0	30.0	0.02	-9999.0	-9999.0	3.794	2.4
10.010	33.100	30.0	30.0	0.06	-9999.0	-9999.0	3.654	2.3
10.020	32.928	30.0	30.0	0.05	-9999.0	-9999.0	3.679	2.2
10.030	32.956	30.0	30.0	0.04	-9999.0	-9999.0	3.707	2.3
10.040	34.294	30.0	30.0	0.04	-9999.0	-9999.0	3.659	2.1
10.050	34.512	30.0	30.0	0.02	-9999.0	-9999.0	3.150	2.5
10.060	34.541	30.0	30.0	0.01	-9999.0	-9999.0	3.785	2.6
10.070	35.269	30.0	30.0	0.01	-9999.0	-9999.0	3.782	2.5
10.080	35.597	30.0	30.0	0.00	-9999.0	-9999.0	3.807	2.6
10.090	35.925	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.864	2.9
11.000	36.253	30.0	30.0	-0.04	-9999.0	-9999.0	3.950	1.2
11.010	36.581	30.0	30.0	-0.01	-9999.0	-9999.0	3.804	3.8
11.020	36.909	30.0	30.0	-0.02	-9999.0	-9999.0	3.961	1.2
11.030	37.237	30.0	30.0	-0.03	-9999.0	-9999.0	3.988	1.9
11.040	37.565	30.0	30.0	-0.01	-9999.0	-9999.0	3.785	3.1
11.050	37.893	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.979	10.0
11.060	38.221	85.7	44.0	-0.19	1.930	429.1	-9999.0	-9999.0
11.070	38.549	89.2	44.0	-0.13	-9999.0	-9999.0	-9999.0	-9999.0
11.080	38.877	86.1	44.0	-0.14	2.093	444.1	-9999.0	-9999.0
11.090	39.206	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.961	10.0
12.000	39.534	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.445	1.8
12.010	39.862	9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.980	2.6
12.020	40.190	30.0	30.0	-0.04	-9999.0	-9999.0	3.978	1.0
12.030	40.518	30.0	30.0	-0.04	-9999.0	-9999.0	1.180	1.0
12.040	40.846	30.0	30.0	-0.01	-9999.0	-9999.0	1.041	1.2
12.050	41.174	30.0	30.0	0.00	-9999.0	-9999.0	1.004	1.0
12.060	41.502	30.0	30.0	-0.02	-9999.0	-9999.0	1.053	1.2
12.070	41.830	30.0	30.0	-0.03	3.680	146.2	-9999.0	-9999.0
12.080	42.158	70.9	40.0	-0.17	2.098	313.9	-9999.0	-9999.0
12.090	42.486	82.6	44.0	-0.21	1.937	392.5	-9999.0	-9999.0
13.000	42.814	85.7	44.0	-0.21	1.990	454.2	-9999.0	-9999.0
13.010	43.143	87.1	44.0	-0.21	2.085	500.9	-9999.0	-9999.0
13.020	43.471	85.4	44.0	-0.26	2.057	490.0	-9999.0	-9999.0
13.030	43.799	83.8	44.0	-0.24	9999.0	9999.0	-9999.0	9999.0
13.040	44.127	84.5	44.0	-0.21	1.953	433.7	-9999.0	-9999.0
13.050	44.455	86.2	44.0	-0.19	2.022	477.6	-9999.0	-9999.0
13.060	44.783	92.7	46.0	-0.19	-9999.0	-9999.0	-9999.0	-9999.0
13.070	45.111	95.0	46.0	-0.17	9999.0	9999.0	9999.0	9999.0
13.080	45.439	95.0	46.0	-0.22	9999.0	-9999.0	9999.0	9999.0
13.090	45.767	95.0	46.0	-0.21	-9999.0	-9999.0	-9999.0	-9999.0
14.000	46.095	91.9	46.0	-0.18	-9999.0	-9999.0	-9999.0	-9999.0
14.010	46.423	89.2	44.0	-0.17	-9999.0	-9999.0	-9999.0	-9999.0
14.020	46.751	89.6	44.0	-0.17	-9999.0	-9999.0	-9999.0	-9999.0
14.030	47.079	89.3	44.0	-0.18	-9999.0	-9999.0	-9999.0	-9999.0
14.040	47.408	88.5	44.0	-0.20	-9999.0	-9999.0	-9999.0	-9999.0
14.050	47.736	84.4	44.0	-0.12	1.965	451.1	3995.0	3993.0
14.060	48.064	81.5	44.0	0.18	1.964	414.2	3989.0	3991.0
14.070	48.392	80.3	42.0	-0.26	2.154	417.8	-9999.0	-9999.0
14.080	48.720	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	4.412	10.0
14.090	49.049	66.2	38.0	-0.56	3.669	216.5	-9999.0	-9999.0
15.000	49.376	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	3.551	10.0
15.010	49.706	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.454	10.0

Run No: CS-0206-1258-5703
CPT File: 32sCP05.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Qc (MPa)	Col-31 Fs (kPa)	Col 32 Rtio Bas	Col 33 Ic (-)	Col 34 Qtn/Qt (Ref)	Col-35 Su (kPa)	Col-36 OCR
15.250	50.032	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.962	20.0
15.350	50.361	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.870	19.6
15.450	50.689	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.982	20.0
15.550	51.018	9999.0	9999.0	9999.0	9999.0	9999.0	3.021	20.0
15.650	51.345	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.011	20.0
15.750	51.673	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.967	19.9
15.850	52.002	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.821	19.0
15.950	52.329	9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.850	19.0
16.050	52.657	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.861	19.1
16.150	52.986	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.917	19.5
16.250	53.313	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.842	19.0
16.350	53.641	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.932	19.6
16.450	53.969	-9999.0	-9999.0	-3997.0	-3999.0	-1999.0	1.205	15.0
16.550	54.297	-9999.0	-9999.0	-3993.0	-3999.0	-1999.0	1.621	15.0
16.650	54.625	-9999.0	-9999.0	-3990.0	-9999.0	-9999.0	1.571	15.0
16.750	54.953	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.944	19.0
16.850	55.281	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.503	8.1
16.950	55.610	11.1	34.0	-0.16	-9999.0	-9999.0	2.521	8.2
17.050	55.938	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.777	9.2
17.150	56.266	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.681	8.8
17.250	56.594	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.063	10.0
17.350	56.922	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.103	10.0
17.450	57.250	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.040	10.0
17.550	57.578	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.226	10.6
17.650	57.906	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.155	10.3
17.750	58.234	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.333	10.9
17.850	58.562	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.372	11.0
17.950	58.890	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.311	10.8
18.050	59.218	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.331	10.9
18.150	59.547	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.174	10.4
18.250	59.875	9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.118	6.4
18.350	60.203	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.129	6.4
18.450	60.531	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.522	7.7
18.550	60.859	31.5	36.0	-0.12	3.747	185.9	-9999.0	-9999.0
18.650	61.187	34.6	34.0	-0.00	3.737	176.2	-9999.0	-9999.0
18.750	61.516	30.0	30.0	-0.01	-9999.0	-9999.0	-9999.0	-9999.0
18.850	61.844	10.0	10.0	0.04	-9999.0	-9999.0	-9999.0	-9999.0
18.950	62.172	40.0	32.0	0.11	-9999.0	-9999.0	-9999.0	-9999.0
19.050	62.499	36.0	32.0	0.07	-9999.0	9999.0	-9999.0	-9999.0
19.150	62.827	64.4	26.0	0.02	3.376	215.0	9999.0	-9999.0
19.250	63.155	51.7	38.0	-0.06	2.975	245.2	-9999.0	-9999.0
19.350	63.485	57.6	38.0	-0.07	2.695	275.1	9999.0	9999.0
19.450	63.810	71.3	42.0	0.10	2.263	311.2	9999.0	9999.0
19.550	64.140	64.2	40.0	-0.08	2.462	315.1	-9999.0	-9999.0
19.650	64.468	79.6	42.0	-0.16	2.045	434.5	-9999.0	-9999.0
19.750	64.796	76.1	42.0	-0.12	2.142	416.7	-9999.0	-9999.0
19.850	65.124	69.7	40.0	0.13	2.311	362.1	-9999.0	-9999.0
19.950	65.452	56.7	40.0	0.10	2.334	319.4	-9999.0	-9999.0
20.050	65.780	69.9	40.0	-0.10	2.169	346.0	-9999.0	-9999.0
20.150	66.108	71.5	42.0	-0.14	2.256	381.7	-9999.0	-9999.0
20.250	66.436	64.9	40.0	-0.14	2.355	363.8	-9999.0	-9999.0
20.350	66.764	59.6	40.0	-0.13	2.619	385.0	-9999.0	9999.0
20.450	67.092	52.5	38.0	-0.10	2.960	456.9	-9999.0	-9999.0
20.550	67.420	38.3	34.0	-0.12	-9999.0	-9999.0	-9999.0	-9999.0
20.650	67.749	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.102	7.1
20.750	68.077	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.491	8.4
20.850	68.405	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.758	9.3
20.950	68.733	-9999.0	-9999.0	-9999.0	9999.0	9999.0	3.028	9.1
21.050	69.061	-9999.0	-9999.0	9999.0	-9999.0	9999.0	2.476	5.9
21.150	69.389	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.126	4.5

Hole Nam: CS-01DR-32sb-v701
CPT File: 7315P20.CPT

Col-01 Depth (ft)	Col-02 Depth (m)	Col-30 Qc (ksi)	Col-31 Fac (deg)	Col-32 Score Par	Col-33 Es/qt	Col-34 YoungS (psi)	Col-35 Su (psf)	Col-36 OCR
21.250	65.717	-9959.0	-9959.0	-9959.0	-9999.0	-9599.0	2.135	4.6
21.350	72.045	-9959.0	-9959.0	-5059.0	-9999.0	9599.0	2.490	5.2
21.450	72.373	-9959.0	-9959.0	-5999.0	-9999.0	-9999.0	2.291	5.1
21.550	72.701	5999.0	9999.0	-9999.0	-9999.0	-9999.0	2.201	5.0
21.650	73.029	-1006.5	-993x.0	-9999.0	-9999.0	-9999.0	2.285	5.0
21.750	73.357	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.511	5.3
21.850	73.685	-5995.0	-9959.0	-9995.0	-9599.0	-9999.0	2.734	4.1
21.950	72.014	-5995.0	-9999.0	-9995.0	-9599.0	-9999.0	2.479	5.9
22.050	72.342	-5959.0	-5999.0	-9995.0	-9599.0	-9999.0	2.423	5.3
22.150	72.670	-5999.0	-9959.0	-9995.0	-9599.0	9959.0	2.295	4.9
22.250	72.998	-5995.0	-9959.0	-5995.0	-9599.0	-9959.0	2.340	5.0
22.350	73.326	-5995.0	-9995.0	9995.0	9599.0	9959.0	2.274	4.9
22.450	73.654	-5995.0	9959.0	9999.0	-9599.0	-9959.0	2.426	5.2
22.550	73.982	-5995.0	5999.0	-9999.0	-9999.0	-9999.0	2.692	6.1
22.650	74.310	-5999.0	-5959.0	-9999.0	-3993.0	-9399.0	2.915	6.8
22.750	74.638	5999.0	9999.0	-9999.0	-1993.0	-9599.0	2.959	6.9
22.850	74.965	5959.0	9959.0	-9999.0	-1993.0	-9599.0	2.949	6.8
22.950	75.293	-9959.0	-9959.0	-9999.0	-9999.0	-9999.0	2.203	4.4
23.050	75.622	-9959.0	-9999.0	-9999.0	-9999.0	-9999.0	2.821	5.7
23.150	75.951	-9959.0	-5999.0	-9999.0	-9999.0	-9999.0	2.917	6.7
23.250	76.279	44.3	36.0	-0.17	-9999.0	-9999.0	4.415	10.8
23.350	76.607	44.4	36.0	-0.14	3.406	241.5	-9999.0	-9999.0
23.450	76.935	56.9	48.0	-0.11	2.810	703.1	-9999.0	-9999.0
23.550	77.263	56.5	48.0	-0.09	2.529	704.6	-9999.0	-9999.0
23.650	77.591	56.5	48.0	-0.11	2.418	706.4	-9999.0	-9999.0
23.750	77.919	56.1	48.0	-0.12	2.417	708.5	-9999.0	-9999.0
23.850	78.247	49.8	48.0	-0.10	2.371	405.2	-9999.0	-9999.0
23.950	78.575	47.1	48.0	-0.11	2.445	703.2	-9999.0	-9999.0
24.050	78.903	43.6	36.0	-0.04	3.480	237.1	-9999.0	-9999.0
24.150	79.231	30.1	32.0	-0.06	-9999.0	-9999.0	-9999.0	-9999.0
24.250	79.559	30.1	32.0	-0.06	-9999.0	-9999.0	-9999.0	-9999.0
24.350	79.887	-9959.0	-9959.0	-9999.0	-9999.0	-9999.0	2.854	5.7
24.450	80.216	-9959.0	-9959.0	-9999.0	-9991.0	-9999.0	2.212	4.1
24.550	80.544	-9959.0	9959.0	-9999.0	-9999.0	-9999.0	2.537	4.2
24.650	80.872	-9959.0	9959.0	9959.0	-9999.0	-9999.0	2.581	3.9
24.750	81.200	-9959.0	-9959.0	-9999.0	-9999.0	-9999.0	2.739	4.5
24.850	81.528	-9959.0	-9959.0	-9999.0	-5999.0	-9999.0	3.524	6.6
24.950	81.856	-9959.0	-9999.0	-9999.0	-9999.0	-9999.0	2.592	4.9
25.050	82.184	9959.0	5999.0	-9999.0	-9999.0	-9999.0	3.470	6.2
25.150	82.512	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.873	5.8
25.250	82.840	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.626	5.0
25.350	83.168	-9999.0	-9999.0	-9999.0	9999.0	9995.0	2.575	4.8
25.450	83.496	-9999.0	-9999.0	-9999.0	9999.0	-9995.0	2.758	5.2
25.550	83.824	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	3.059	4.3
25.650	84.153	-9999.0	-9999.0	-9999.0	-9999.0	-9992.0	2.136	1.5
25.750	84.481	-9959.0	-9996.0	-9999.0	-9999.0	-9991.0	3.114	3.6
25.850	84.809	-9959.0	9959.0	-9999.0	-3995.0	-9995.0	2.337	4.2
25.950	85.137	5995.0	5999.0	-9999.0	-9999.0	-9999.0	2.710	5.1
26.050	85.465	-9995.0	-9999.0	-9999.0	-9599.0	-9959.0	2.614	4.8
26.150	85.793	-9995.0	-9992.0	-9995.0	9599.0	9959.0	2.151	3.5
26.250	86.121	-9995.0	-9995.0	9995.0	-9999.0	-9959.0	2.525	4.4
26.350	86.449	-9995.0	-9995.0	-9991.0	-9999.0	-9999.0	2.483	4.2
26.450	86.777	-9995.0	-9995.0	-9997.0	-9999.0	-9959.0	2.725	3.2
26.550	87.105	-9999.0	5995.0	-9999.0	-9999.0	-9959.0	1.340	2.3
26.650	87.433	-9999.0	-9999.0	-9995.0	9999.0	9999.0	2.170	1.6
26.750	87.761	-9999.0	-9995.0	-9999.0	-9999.0	-9999.0	2.172	1.1
26.850	88.089	-9999.0	-9995.0	9999.0	-9999.0	-9999.0	2.175	4.5
26.950	88.418	37.4	36.0	-0.11	-9999.0	-9999.0	-9991.0	-9991.0
27.050	88.746	31.2	32.0	-0.10	-9999.0	-9999.0	2.161	5.1
27.150	89.074	30.0	32.0	-0.12	-9999.0	-9999.0	2.524	4.3

Run No 05-0325-1258-5703
CPT File: 121CPT03.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dr (%)	Col-31 Phi (deg)	Col-32 State Par	Col-33 Kx/gt	Col-34 YoungK (tsf)	Col-35 Su (tsf)	Col-36 OCR
27.257	89.402	30.0	32.0	-0.07	-9999.0	-9999.0	2.405	4.0
27.356	89.730	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.501	4.0
27.450	90.038	-9999.0	-9999.0	9999.0	9999.0	-9999.0	2.239	3.4
27.550	90.366	9999.0	9999.0	9999.0	9999.0	9999.0	2.156	3.3
27.650	90.714	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.156	3.4
27.750	91.042	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.617	4.4
27.850	91.370	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.569	5.4
27.950	91.698	33.4	34.0	-0.12	-9999.0	-9999.0	3.727	7.5
28.050	92.026	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.361	6.4
28.150	92.155	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.304	6.2
28.250	92.183	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.255	5.7
28.350	93.011	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.213	5.9
28.450	93.339	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.073	5.4
28.550	93.667	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.154	4.3
28.650	93.995	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.183	4.4
28.750	94.123	41.7	34.0	-0.10	-9999.0	-9999.0	-9999.0	-9999.0
28.850	94.651	40.9	34.0	-0.13	-9999.0	-9999.0	4.154	8.5

Interpretation Output - Release 3.22 Rev. A - Build 5 Format: NGP Imperial

Run No: 05-0108-1250-5700
Job No: 05-121
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-005
Location: Pigeon Point
Cone: 20 TON AD157
CPT Date: 05/04/05
CPT Time: 14:17
CPT File: 721CPT6.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m) 15.13 (ft): 49.7
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (m): 0.10
Su Not used: 15.00 Su/P' (Nc): 0.30
Dr Method : Jamiolkowski - All Sands
State Parameter Ψ: 1.20
Used Unit Weights Assigned to Soil Zones
Nb60ic Calculated using qcin
Nb60cs Calculated using qcincs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qt (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
0.050	0.164	-0.050	-0.164	33.59	31.54	0.75	2.26	5.35	5	-9999.0
0.100	0.492	-0.100	-0.492	14.41	14.44	0.75	5.20	7.39	7	-9999.0
0.150	0.820	-0.150	-0.820	63.10	63.36	0.50	0.79	17.04	8	-9999.0
0.200	0.656	-0.200	-0.656	0.000	0.000	0.000	0.000	0.000	0	0
0.250	1.148	-0.250	-1.148	45.19	49.29	0.72	1.35	5.97	7	6
0.300	1.476	-0.300	-1.476	29.43	29.64	0.47	1.55	5.08	6	6
0.350	1.804	-0.350	-1.804	17.14	17.36	0.17	2.13	10.30	9	5
0.400	2.132	-0.400	-2.132	15.17	15.27	0.24	1.55	21.65	8	6
0.450	2.461	-0.450	-2.461	11.76	11.80	0.21	1.80	26.32	8	6
0.500	2.789	-0.500	-2.789	6.95	6.93	0.07	0.95	17.66	7	5
0.550	3.117	-0.550	-3.117	4.12	4.19	0.02	0.36	14.02	7	5
0.600	3.445	-0.600	-3.445	3.62	3.64	0.06	1.26	14.01	7	4
0.650	3.773	-0.650	-3.773	51.02	51.40	1.50	1.51	32.94	7	6
0.700	4.101	-0.700	-4.101	96.78	96.69	1.95	1.39	21.65	7	6
0.750	4.429	-0.750	-4.429	55.69	55.84	1.46	1.62	6.62	6	6
0.800	4.757	-0.800	-4.757	26.83	26.94	0.84	1.39	3.28	5	5
0.850	5.085	-0.850	-5.085	28.85	29.58	0.79	1.46	6.62	6	5
0.900	5.413	-0.900	-5.413	14.66	14.81	0.20	1.14	5.29	7	4
0.950	5.741	-0.950	-5.741	14.08	14.16	0.17	1.49	11.59	7	4
1.000	6.069	-1.000	-6.069	16.81	16.96	0.46	2.69	20.25	8	6
1.050	6.398	-1.050	-6.398	7.56	7.66	0.22	2.81	25.33	8	6
1.100	6.726	-1.100	-6.726	9.17	9.32	0.21	2.29	33.67	8	6
1.150	7.054	-1.150	-7.054	12.40	12.47	0.26	2.03	51.19	8	6
1.200	7.382	-1.200	-7.382	10.15	11.20	0.47	4.14	11.64	7	6
1.250	7.710	-1.250	-7.710	10.35	10.43	0.57	5.41	19.15	7	5
1.300	8.038	-1.300	-8.038	7.49	8.00	0.52	6.51	27.88	7	5
1.350	8.366	-1.350	-8.366	14.05	16.15	0.35	2.18	14.04	6	4
1.400	8.694	-1.400	-8.694	9.61	9.65	0.20	2.03	7.50	6	4
1.450	9.022	-1.450	-9.022	15.30	15.31	0.24	1.54	5.96	6	5
1.500	9.350	-1.500	-9.350	18.17	18.20	0.24	1.34	5.67	6	5
1.550	9.679	-1.550	-9.679	27.56	27.61	0.22	1.61	31.97	7	5
1.600	11.006	-1.600	-10.006	11.56	11.38	0.13	3.60	-0.05	5	4
1.650	11.335	-1.650	-10.335	46.59	43.64	0.28	0.69	32.33	7	6

Run No DS-0508-1258-STHC
CPT File 721C505.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col 09 u (psi)	Col 10 SBT (Zone)	Col 11 SBTn (Zone)
3.250	10.663	-1.350	-10.663	53.43	52.97	0.62	1.18	8.75	7	5
3.350	10.991	-1.450	-10.991	77.61	77.65	1.16	1.49	6.53	7	5
3.450	11.319	-1.550	-11.319	49.64	49.84	1.20	2.41	0.26	6	5
3.550	11.647	-1.650	-11.647	55.25	55.29	0.17	1.72	0.67	7	5
3.650	11.975	-1.750	-11.975	15.65	15.67	0.75	4.81	5.70	1	4
3.750	12.303	-1.850	-12.303	10.05	10.13	0.21	2.01	11.81	1	4
3.850	12.631	-1.950	-12.631	7.66	7.77	0.18	2.32	22.38	4	3
3.950	12.959	-2.050	-12.959	18.15	18.19	0.36	2.09	2.43	5	4
4.050	13.287	-2.150	-13.287	20.63	20.63	0.47	2.28	5.92	5	4
4.150	13.616	-2.250	-13.616	10.96	11.09	0.46	4.02	23.21	3	3
4.250	13.943	-2.350	-13.943	9.99	10.23	0.62	6.05	51.24	3	3
4.350	14.271	-2.450	-14.271	48.06	48.14	0.53	1.42	19.71	7	5
4.450	14.600	-2.550	-14.600	57.27	57.42	0.98	1.71	11.76	7	5
4.550	14.928	-2.650	-14.928	17.07	17.11	0.50	2.93	4.37	5	4
4.650	15.256	-2.750	-15.256	21.96	21.98	0.37	1.70	3.74	5	4
4.750	15.584	-2.850	-15.584	35.71	35.72	0.62	1.73	3.43	6	5
4.850	15.912	-2.950	-15.912	60.04	60.04	1.04	1.73	-1.05	7	5
4.950	16.240	-3.050	-16.240	57.88	57.88	1.12	1.93	-0.09	7	5
5.050	16.568	-3.150	-16.568	49.15	49.15	1.24	2.50	-1.25	6	5
5.150	16.896	-3.250	-16.896	53.35	53.36	1.31	2.46	1.41	6	5
5.250	17.224	-3.350	-17.224	42.42	42.44	0.74	1.72	3.51	6	4
5.350	17.552	-3.450	-17.552	44.97	44.98	0.47	1.05	0.21	7	5
5.450	17.880	-3.550	-17.880	27.49	27.48	0.45	1.65	-1.15	6	4
5.550	18.209	-3.650	-18.209	16.64	16.65	0.25	1.48	1.33	6	4
5.650	18.537	-3.750	-18.537	19.80	19.81	0.36	1.82	1.85	6	4
5.750	18.865	-3.850	-18.865	10.09	10.13	0.29	2.86	7.29	5	3
5.850	19.193	-3.950	-19.193	7.41	7.53	0.29	3.90	28.27	3	3
5.950	19.521	-4.050	-19.521	36.73	36.86	0.72	1.96	27.57	6	5
6.050	19.849	-4.150	-19.849	15.54	15.89	0.43	2.71	5.15	5	3
6.150	20.177	-4.250	-20.177	37.86	38.36	0.38	1.02	103.49	6	4
6.250	20.505	-4.350	-20.505	37.20	37.84	0.20	1.56	116.68	5	4
6.350	20.833	-4.450	-20.833	11.98	12.63	0.21	1.75	102.75	5	3
6.450	21.161	-4.550	-21.161	11.88	12.39	0.23	1.86	107.11	5	3
6.550	21.489	-4.650	-21.489	11.97	11.95	0.21	1.76	95.52	5	3
6.650	21.817	-4.750	-21.817	12.61	12.67	0.31	2.49	9.31	5	3
6.750	22.145	-4.850	-22.145	15.60	15.61	0.53	3.38	7.44	4	3
6.850	22.473	-4.950	-22.473	21.44	21.34	0.47	2.21	5.21	5	3
6.950	22.802	-5.050	-22.802	39.19	39.22	0.69	1.53	0.49	7	5
7.050	23.130	-5.150	-23.130	26.06	26.06	0.38	1.46	4.37	6	4
7.150	23.458	-5.250	-23.458	38.61	38.69	0.61	0.17	37.57	8	5
7.250	23.786	-5.350	-23.786	20.89	21.02	0.12	0.57	26.74	7	5
7.350	24.114	-5.450	-24.114	49.19	49.35	0.01	0.06	35.03	8	9999.0
7.450	24.442	-5.550	-24.442	20.80	20.85	0.25	1.20	11.43	6	4
7.550	24.770	-5.650	-24.770	66.99	67.09	0.09	0.11	21.69	6	4
7.650	25.098	-5.750	-25.098	30.12	30.15	0.80	2.66	11.30	6	4
7.750	25.426	-5.850	-25.426	23.48	23.54	0.46	1.70	10.93	5	4
7.850	25.754	-5.950	-25.754	57.17	57.18	0.95	1.56	1.98	7	5
7.950	26.082	-6.050	-26.082	44.04	44.08	1.10	2.48	4.11	6	4
8.050	26.410	-6.150	-26.410	27.35	27.95	0.79	2.82	1.09	5	4
8.150	26.739	-6.250	-26.739	27.79	27.78	0.99	2.61	-1.15	6	4
8.250	27.067	-6.350	-27.067	52.57	52.59	1.43	2.25	1.05	6	5
8.350	27.395	-6.450	-27.395	68.50	68.97	1.43	2.01	7.84	7	5
8.450	27.723	-6.550	-27.723	51.17	51.19	1.02	1.96	1.44	6	4
8.550	28.051	-6.650	-28.051	123.04	123.13	3.13	2.54	28.05	9	6
8.650	28.379	-6.750	-28.379	49.49	49.57	2.45	4.98	-7.83	4	3
8.750	28.707	-6.850	-28.707	16.48	16.49	0.60	3.62	2.65	4	3
8.850	29.036	-6.950	-29.036	35.30	35.31	0.27	0.75	2.40	7	5
8.950	29.363	-7.050	-29.363	170.75	170.96	0.25	0.17	1.69	9	6
9.050	29.691	-7.150	-29.691	240.53	240.94	2.01	0.85	2.05	9	6
9.150	30.019	-7.250	-30.019	36.72	36.76	1.10	3.15	5.25	5	4

Run No: GS 0108-1256-5702
CPT File: 121CP06.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
9.250	30.347	-9.250	-30.347	42.10	42.27	0.26	0.62	37.44	1	5
9.350	30.675	-9.350	-30.675	31.02	31.05	0.29	0.94	7.74	1	5
9.450	31.004	-9.450	-31.004	22.01	22.09	0.60	2.25	2.96	6	3
9.550	31.332	-9.550	-31.332	21.46	21.47	0.46	2.15	1.69	6	3
9.650	31.660	-9.650	-31.660	20.68	20.72	0.25	1.25	3.26	6	4
9.750	31.988	-9.750	-31.988	24.11	24.23	0.33	1.41	3.82	7	5
9.850	32.316	-9.850	-32.316	31.84	31.89	0.33	1.05	1.35	7	5
9.950	32.644	-9.950	-32.644	33.53	33.54	0.35	1.01	4.20	7	6
10.050	32.972	-10.050	-32.972	53.25	53.30	0.82	1.53	4.70	7	7
10.150	33.300	-10.150	-33.300	169.45	169.50	1.19	0.65	3.67	9	6
10.250	33.628	-10.250	-33.628	145.45	145.45	1.08	0.74	-1.06	8	6
10.350	33.956	-10.350	-33.956	57.30	57.30	0.92	1.61	-1.50	7	5
10.450	34.284	-10.450	-34.284	39.09	39.10	1.03	2.64	1.04	6	4
10.550	34.612	-10.550	-34.612	35.07	35.09	1.13	3.21	4.51	6	3
10.650	34.941	-10.650	-34.941	27.92	27.96	0.90	3.23	8.34	5	3
10.750	35.269	-10.750	-35.269	12.69	12.77	0.49	3.81	28.50	4	3
10.850	35.597	-10.850	-35.597	28.82	29.06	0.97	3.34	44.41	5	3
10.950	35.925	-10.950	-35.925	65.09	65.17	1.98	2.73	35.82	6	4
11.050	36.253	-11.050	-36.253	93.12	93.18	1.93	2.44	32.58	7	4
11.150	36.581	-11.150	-36.581	33.86	33.96	1.13	3.86	4.10	5	3
11.250	36.909	-11.250	-36.909	26.13	26.12	1.15	4.41	-1.78	4	3
11.350	37.237	-11.350	-37.237	29.91	29.76	0.72	2.41	6.44	5	4
11.450	37.565	-11.450	-37.565	30.36	30.50	0.75	2.46	11.86	6	4
11.550	37.893	-11.550	-37.893	17.93	26.26	0.49	2.69	14.55	5	3
11.650	38.221	-11.650	-38.221	63.65	64.28	1.10	2.94	154.55	6	4
11.750	38.549	-11.750	-38.545	65.17	65.90	1.45	2.17	27.81	7	4
11.850	38.877	-11.850	-38.877	55.53	59.32	1.50	2.69	44.41	6	4
11.950	39.206	-11.950	-39.206	101.59	102.03	2.10	2.25	5.64	7	5
12.050	39.534	-12.050	-39.534	104.22	104.29	2.33	2.23	14.95	7	5
12.150	39.862	-12.150	-39.862	55.53	65.65	2.66	4.05	3.72	5	4
12.250	40.190	-12.250	-40.190	65.10	68.21	1.95	2.85	22.93	6	4
12.350	40.518	-12.350	-40.518	23.97	29.03	1.28	4.67	11.65	4	3
12.450	40.846	-12.450	-40.846	23.31	23.50	0.72	3.05	14.91	5	3
12.550	41.174	-12.550	-41.174	5.67	8.07	0.26	2.39	61.84	4	3
12.650	41.502	-12.650	-41.502	15.27	35.42	0.60	2.57	52.52	5	3
12.750	41.830	-12.750	-41.830	47.35	48.34	1.37	2.61	34.64	6	4
12.850	42.158	-12.850	-42.158	97.48	95.95	2.12	2.13	14.95	7	5
12.950	42.486	-12.950	-42.486	155.84	155.93	1.97	1.01	20.14	9	5
13.050	42.814	-13.050	-42.804	114.20	116.27	2.27	1.95	16.60	7	5
13.150	43.143	-13.150	-43.143	79.62	79.95	2.45	3.01	27.11	6	4
13.250	43.471	-13.250	-43.471	71.02	71.39	3.06	4.25	61.78	5	4
13.350	43.799	-13.350	-43.799	228.85	228.95	5.22	2.19	38.56	7	5
13.450	44.127	-13.450	-44.127	88.03	89.27	3.71	4.21	7.54	5	4
13.550	44.455	-13.550	-44.455	41.01	41.35	1.75	4.25	47.24	6	3
13.650	44.783	-13.650	-44.783	49.62	49.72	1.15	2.31	25.77	6	4
13.750	45.111	-13.750	-45.111	55.25	55.30	1.31	2.26	4.45	6	4
13.850	45.439	-13.850	-45.439	103.65	103.79	2.40	2.33	21.05	7	5
13.950	45.767	-13.950	-45.767	67.11	67.32	2.23	3.26	45.74	6	4
14.050	46.095	-14.050	-46.095	52.13	52.19	2.17	4.24	34.57	6	4
14.150	46.423	-14.150	-46.423	85.31	85.34	1.87	2.18	17.44	7	4
14.250	46.751	-14.250	-46.751	63.14	63.40	2.38	3.59	29.61	6	4
14.350	47.079	-14.350	-47.079	79.98	79.90	1.40	1.75	1.61	7	5
14.450	47.406	-14.450	-47.406	51.42	57.17	2.42	4.23	14.48	5	3
14.550	47.734	-14.550	-47.734	71.30	75.38	3.34	2.51	37.05	6	4
14.650	48.062	-14.650	-48.062	86.47	87.13	3.51	1.80	130.97	7	5
14.750	48.392	-14.750	-48.392	52.16	52.44	1.61	3.11	59.24	6	4
14.850	48.720	-14.850	-48.720	42.23	42.67	1.62	3.51	89.90	5	3
14.950	49.048	-14.950	-49.048	51.20	51.37	1.14	2.22	36.17	6	4
15.050	49.376	-15.050	-49.376	47.69	47.78	0.97	1.62	20.26	7	4
15.150	49.704	-15.150	-49.704	36.26	36.29	0.67	1.84	8.43	6	4

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col 08 Rf (%)	Col 09 u (ft)	Col 10 SBT (Zone)	Col-11 SBTn (Zone)
15.250	50.032	-15.250	-50.032	17.31	17.62	0.25	1.43	44.50	5	6
15.300	50.360	-15.300	-50.360	26.86	15.33	0.14	0.86	100.57	5	3
15.400	50.688	-15.400	-50.688	24.40	15.06	0.12	0.82	126.00	6	3
15.350	50.516	-15.350	-50.516	13.80	14.68	0.11	0.76	144.61	6	3
15.450	50.845	-15.450	-50.845	13.25	13.97	0.09	0.61	161.09	6	3
15.500	50.673	-15.500	-50.673	19.19	13.90	0.10	0.68	162.72	6	3
15.550	50.001	-15.550	-50.001	14.60	15.44	0.14	1.01	179.98	6	3
15.550	50.329	-15.550	-50.329	14.54	15.37	0.19	1.21	177.07	6	3
16.050	52.697	-16.050	-52.697	19.80	14.66	0.15	1.03	167.65	6	3
16.150	52.985	-16.150	-52.985	14.60	15.32	0.17	1.11	195.70	6	3
16.250	53.313	-16.250	-53.313	15.66	16.48	0.21	1.29	218.56	6	3
16.350	53.641	-16.350	-53.641	14.56	15.46	0.26	1.65	196.80	6	3
16.450	53.969	-16.450	-53.969	14.66	15.22	0.25	1.65	168.30	6	3
16.550	54.297	-16.550	-54.297	13.77	14.61	0.21	1.41	190.60	6	3
16.650	54.625	-16.650	-54.625	15.63	16.10	0.21	1.25	195.16	6	3
16.750	54.953	-16.750	-54.953	14.85	15.69	0.20	1.17	221.60	6	3
16.850	55.281	-16.850	-55.281	14.61	15.58	0.18	1.16	215.93	6	3
16.950	55.610	-16.950	-55.610	13.89	14.96	0.16	1.01	205.61	6	3
17.050	55.938	-17.050	-55.938	13.51	14.44	0.12	0.83	202.82	6	3
17.150	56.266	-17.150	-56.266	14.44	15.35	0.17	1.06	198.29	6	3
17.250	56.594	-17.250	-56.594	14.66	15.62	0.12	0.82	161.13	6	3
17.350	56.922	-17.350	-56.922	14.40	15.24	0.24	1.59	251.63	6	3
17.450	57.250	-17.450	-57.250	25.85	25.79	0.24	1.47	258.44	6	3
17.550	57.578	-17.550	-57.578	25.75	25.57	0.22	1.38	248.42	6	3
17.650	57.906	-17.650	-57.906	15.20	26.02	0.21	1.32	234.64	6	3
17.750	58.234	-17.750	-58.234	15.33	16.23	0.22	1.37	245.28	6	3
17.850	58.562	-17.850	-58.562	21.44	24.35	0.22	1.54	286.64	6	3
17.950	58.890	-17.950	-58.890	21.70	24.71	0.19	1.21	214.21	6	3
18.050	59.218	-18.050	-59.218	14.67	15.50	0.19	1.23	221.21	6	3
18.150	59.547	-18.150	-59.547	15.33	16.43	0.20	1.22	234.64	6	3
18.250	59.875	-18.250	-59.875	15.64	16.11	0.22	1.34	228.41	6	3
18.350	60.203	-18.350	-60.203	15.96	28.80	0.32	1.16	221.13	6	3
18.450	60.531	-18.450	-60.531	17.19	27.86	0.40	2.22	241.63	5	3
18.550	60.859	-18.550	-60.859	14.72	15.62	0.26	1.62	165.34	6	3
18.650	61.187	-18.650	-61.187	19.32	20.24	0.54	2.67	256.15	5	3
18.750	61.515	-18.750	-61.515	30.06	60.20	1.16	1.93	14.62	7	4
18.850	61.843	-18.850	-61.843	100.51	101.01	1.11	1.10	9.12	8	4
18.950	62.171	-18.950	-62.171	18.24	60.25	1.11	1.81	2.52	7	4
19.050	62.499	-19.050	-62.499	23.56	24.10	0.31	1.29	10.38	6	3
19.150	62.827	-19.150	-62.827	25.57	16.39	0.23	1.52	109.31	6	3
19.250	63.155	-19.250	-63.155	21.21	21.52	0.39	1.82	98.99	6	3
19.350	63.483	-19.350	-63.483	17.85	15.25	0.27	2.01	84.10	6	3
19.450	63.812	-19.450	-63.812	12.71	13.02	0.19	1.46	67.74	6	3
19.550	64.140	-19.550	-64.140	21.65	12.04	0.14	1.17	87.09	6	3
19.650	64.468	-19.650	-64.468	21.30	11.91	0.15	1.60	58.01	5	3
19.750	64.796	-19.750	-64.796	15.64	11.93	0.24	1.69	12.52	5	3
19.850	65.124	-19.850	-65.124	13.13	11.50	0.20	1.78	40.71	5	3
19.950	65.452	-19.950	-65.452	15.43	15.67	0.60	3.84	32.75	4	3
20.051	65.780	-20.050	-65.780	51.85	53.99	1.41	2.61	20.64	6	6
20.150	66.108	-20.150	-66.108	214.70	124.68	0.57	0.45	1.14	8	5
20.250	66.436	-20.250	-66.436	144.31	144.32	0.76	0.52	3.44	7	4
20.350	66.764	-20.350	-66.764	175.61	175.64	1.25	0.71	5.25	7	4
20.450	67.092	-20.450	-67.092	202.12	202.15	1.49	0.74	5.81	7	4
20.550	67.420	-20.550	-67.420	210.04	210.07	1.50	0.67	9.02	9	4
20.650	67.749	-20.650	-67.749	236.20	230.26	0.79	0.34	11.72	10	4
20.750	68.077	-20.750	-68.077	274.47	274.53	1.52	0.55	13.89	10	4
20.850	68.405	-20.850	-68.405	194.93	194.99	0.92	0.47	13.16	9	4
20.950	68.733	-20.950	-68.733	105.63	105.69	1.54	1.46	9.02	8	5
21.050	69.061	-21.050	-69.061	61.21	61.27	1.91	3.15	6.84	6	7
21.150	69.389	-21.150	-69.389	12.45	52.47	2.12	4.04	8.22	5	5

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Col 01 Depth (m)	Col 02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col 05 qc (tsf)	Col 06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
21.250	69.717	-21.250	-69.717	43.74	49.76	2.30	5.79	9.65	3	3
21.350	70.046	-21.350	-70.046	11.50	17.51	2.14	1.23	6.15	4	3
21.450	70.373	-21.450	-70.373	68.58	68.82	2.16	3.42	7.32	3	3
21.550	70.701	-21.550	-70.701	69.59	69.63	2.20	4.72	7.23	4	3
21.650	71.029	-21.650	-71.029	44.57	45.00	2.48	5.30	5.22	3	3
21.750	71.357	-21.750	-71.357	39.57	39.60	2.03	5.14	5.71	3	3
21.850	71.685	-21.850	-71.685	36.25	36.27	1.74	4.81	5.13	4	3
21.950	72.014	-21.950	-72.014	33.25	33.28	1.66	5.00	5.20	3	3
22.050	72.342	-22.050	-72.342	41.35	41.38	1.67	4.05	5.38	3	3
22.150	72.670	-22.150	-72.670	63.69	63.72	1.96	3.14	5.75	4	3
22.250	72.998	-22.250	-72.998	31.11	31.13	1.36	4.36	5.26	4	3
22.350	73.326	-22.350	-73.326	30.19	30.21	1.31	4.25	10.36	4	3
22.450	73.654	-22.450	-73.654	35.30	35.36	1.57	4.75	13.10	4	3
22.550	73.982	-22.550	-73.982	35.30	35.43	2.02	5.70	14.57	3	3
22.650	74.310	-22.650	-74.310	34.14	34.22	2.46	7.18	15.65	3	3
22.750	74.636	-22.750	-74.628	32.46	32.52	2.48	7.63	15.17	3	3
22.850	74.966	-22.850	-74.306	31.01	31.08	2.36	7.63	14.69	3	3
22.950	75.294	-22.950	-75.294	31.34	31.41	2.27	7.24	13.15	3	3
23.050	75.622	-23.050	-75.622	35.38	35.44	1.82	4.59	12.41	4	3
23.150	75.951	-23.150	-75.950	75.32	75.37	0.97	1.29	12.14	8	4
23.250	76.279	-23.250	-75.279	61.35	61.35	0.74	1.20	-0.01	7	4
23.350	76.607	-23.350	-75.607	64.71	64.73	0.60	1.10	4.41	7	4
23.450	76.935	-23.450	-75.935	92.23	92.25	0.54	0.59	5.10	8	5
23.550	77.263	-23.550	-77.263	101.49	101.51	0.78	0.75	4.59	8	5
23.650	77.591	-23.650	-77.591	119.72	119.73	1.69	1.58	3.67	8	5
23.750	77.919	-23.750	-77.319	156.46	156.47	2.54	1.50	2.40	8	5
23.850	78.247	-23.850	-78.247	134.53	134.53	1.50	1.02	0.97	8	5
23.950	78.575	-23.950	-78.575	140.89	140.90	0.76	0.54	1.64	8	5
24.050	78.903	-24.050	-78.903	147.73	147.74	1.24	0.84	3.05	8	5
24.150	79.231	-24.150	-79.231	133.80	133.82	1.20	0.90	2.24	8	5
24.250	79.559	-24.250	-79.559	115.82	115.82	1.11	0.96	0.32	8	5
24.350	79.887	-24.350	-79.887	102.34	102.36	1.59	1.56	0.64	8	5
24.450	80.216	-24.450	-80.216	43.47	43.47	1.24	2.86	-1.35	6	5
24.550	80.544	-24.550	-80.144	33.90	33.92	1.53	3.93	0.35	5	3
24.650	80.872	-24.650	-80.872	27.25	27.75	1.00	4.52	1.59	5	3
24.750	81.200	-24.750	-81.200	23.70	23.72	1.70	7.19	3.19	3	2
24.850	81.528	-24.850	-81.528	21.94	21.97	1.52	6.94	5.16	3	2
24.950	81.856	-24.950	-81.856	24.37	24.40	1.51	6.19	7.61	3	3
25.050	82.184	-25.050	-82.184	25.29	25.32	1.36	5.34	8.04	3	3
25.150	82.512	-25.150	-82.512	21.69	21.74	1.21	5.58	10.62	3	3
25.250	82.840	-25.250	-82.840	20.55	21.00	1.24	5.92	11.50	3	3
25.350	83.168	-25.350	-83.168	21.28	21.34	1.29	6.09	12.49	3	3
25.450	83.496	-25.450	-83.496	25.27	25.34	1.25	4.93	14.35	3	3
25.550	83.824	-25.550	-83.824	27.61	27.62	1.38	5.01	15.13	3	3
25.650	84.153	-25.650	-84.153	25.17	25.26	1.74	6.85	19.56	3	3
25.750	84.481	-25.750	-84.481	48.61	48.96	1.85	3.82	9.79	4	3
25.850	84.809	-25.850	-84.809	28.66	28.83	1.47	5.17	14.14	3	3
25.950	85.137	-25.950	-85.137	20.47	20.59	1.14	6.50	24.02	3	3
26.050	85.465	-26.050	-85.465	21.33	21.64	1.22	5.62	14.24	3	3
26.150	85.793	-26.150	-85.793	21.27	21.66	1.21	5.58	17.11	3	3
26.250	86.121	-26.250	-86.121	19.88	19.90	1.24	6.24	19.44	3	3
26.350	86.449	-26.350	-86.449	14.14	14.51	0.95	6.70	78.22	3	3
26.450	86.777	-26.450	-86.777	16.47	17.18	0.91	5.26	118.27	3	3
26.550	87.106	-26.550	-87.106	19.82	20.06	1.02	5.10	116.16	3	3
26.650	87.434	-26.650	-87.433	26.61	26.58	1.46	5.51	25.33	3	3
26.750	87.762	-26.750	-87.762	27.95	28.09	1.61	5.66	29.52	3	3
26.850	88.089	-26.850	-88.089	20.26	21.51	1.60	6.09	59.49	3	3
26.950	88.418	-26.950	-88.418	29.93	30.19	1.68	5.57	55.65	3	3
27.050	88.746	-27.050	-88.746	25.91	25.09	1.34	5.33	39.62	3	3
27.150	89.074	-27.151	-89.074	25.01	28.30	1.54	5.41	75.13	3	3

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT	Col-11 SBTn
23.240	89.632	-21.250	-83.662	28.52	26.71	1.11	4.09	15.34	6	5
23.340	89.718	-21.350	-83.733	22.98	22.98	1.11	4.90	16.77	7	5
23.450	90.058	-21.450	-84.036	29.86	30.11	1.56	5.17	42.47	7	5
23.550	90.384	-21.550	-84.336	36.54	35.64	2.29	6.26	24.15	7	5
23.650	90.714	-21.650	-84.614	39.86	40.13	2.44	5.88	57.42	7	5
23.750	91.042	-21.750	-84.942	36.16	34.22	2.21	6.26	13.52	7	5
23.850	91.370	-21.850	-85.270	35.14	35.20	2.11	5.98	13.70	7	5
23.950	91.698	-21.950	-85.598	33.09	31.09	2.19	6.35	7.42	7	5
24.050	92.026	-22.050	-85.926	41.72	41.75	1.88	4.51	8.28	6	5
24.150	92.355	-22.150	-86.255	107.32	107.35	1.05	0.99	6.33	8	6
24.250	92.553	-22.250	-86.625	113.39	113.35	0.71	0.63	0.86	9	6
24.350	93.011	-22.350	-87.011	109.81	109.82	0.74	0.69	1.11	9	6
24.450	93.339	-22.450	-87.339	96.68	96.81	0.74	0.77	2.19	8	6
24.550	93.667	-22.550	-87.667	59.76	59.75	0.91	1.53	3.10	7	4
24.650	93.995	-22.650	-87.995	56.60	56.71	1.54	0.95	28.19	8	4
24.750	94.323	-22.750	-88.323	90.58	90.65	0.35	0.39	14.52	8	6
24.850	94.651	-22.850	-88.651	81.59	81.67	0.36	0.43	16.49	8	6
24.950	94.979	-22.950	-89.979	60.15	60.23	0.80	1.32	19.01	7	4
25.050	95.307	-23.050	-89.307	61.33	61.87	0.74	1.21	116.14	7	3
25.150	95.635	-23.150	-89.635	52.64	52.64	1.27	2.41	19.79	6	3
25.250	95.963	-23.250	-89.963	45.21	45.24	1.16	4.92	2.77	6	3
25.350	96.291	-23.350	-90.291	41.75	41.30	1.45	5.76	3.14	5	3
25.450	96.622	-23.450	-90.620	51.15	51.22	2.96	5.19	4.62	6	3
25.550	96.949	-23.550	-90.948	120.93	120.94	1.16	0.97	2.36	8	6
25.650	97.275	-23.650	-91.276	106.14	106.14	0.53	0.50	0.59	8	6
25.750	97.604	-23.750	-91.604	43.72	43.72	0.45	1.48	0.60	7	4
25.850	97.932	-23.850	-91.932	26.71	26.74	0.37	1.25	4.04	7	3
25.950	98.260	-23.950	-92.260	26.17	28.24	0.77	2.72	13.16	5	3
26.050	98.587	-24.050	-92.588	26.47	26.53	1.65	5.23	12.60	5	3
26.150	98.915	-24.150	-92.916	27.13	27.20	2.15	7.92	10.53	5	3695.0
26.250	99.244	-24.250	-93.244	31.62	31.71	3.97	8.23	15.21	5	3
26.350	99.572	-24.350	-93.572	28.68	28.71	3.44	8.29	24.00	5	3
26.450	99.901	-24.450	-93.900	41.03	41.09	3.40	8.10	24.32	5	3
26.550	100.228	-24.550	-94.228	41.27	41.39	3.46	8.19	24.76	5	3
26.650	100.557	-24.650	-94.557	62.61	62.68	3.36	5.72	27.74	6	4
26.750	100.885	-24.750	-94.885	153.54	153.58	0.69	0.42	16.62	9	6
26.850	101.213	-24.850	-95.213	151.45	151.55	0.49	0.32	12.74	9	6
26.950	101.541	-24.950	-95.541	129.32	129.45	0.98	0.77	11.76	9	5
27.050	101.869	-25.050	-95.869	73.35	73.42	0.16	0.22	7.44	8	4
27.150	102.197	-25.150	-96.197	17.21	18.57	0.93	5.48	271.01	7	4
27.250	102.525	-25.250	-96.525	16.95	15.70	0.69	3.46	497.31	6	3
27.350	102.853	-25.350	-96.853	43.59	45.43	1.43	3.14	115.69	6	3
27.450	103.181	-25.450	-97.181	49.35	51.43	2.08	4.03	447.82	5	3
27.550	103.509	-25.550	-97.509	50.56	52.96	2.46	4.64	611.56	4	3
27.650	103.837	-25.650	-97.837	42.74	43.96	2.52	5.72	259.36	3	3
27.750	104.165	-25.750	-98.165	32.33	32.77	1.78	5.44	80.64	3	3
27.850	104.493	-25.850	-98.493	38.35	39.12	1.71	4.39	142.77	4	3
27.950	104.822	-25.950	-98.822	42.85	43.60	2.37	5.45	255.72	3	3
28.050	105.150	-26.050	-99.150	45.37	46.04	2.79	6.24	57.97	3	3
28.150	105.478	-26.150	-99.478	35.62	36.15	2.48	7.02	6.50	3	3
28.250	105.806	-26.250	-99.806	28.35	28.91	2.45	8.78	44.94	3	3
28.350	106.134	-26.350	-100.134	39.12	39.94	3.15	8.04	174.94	4	3
28.450	106.462	-26.450	-100.462	47.67	47.98	2.72	5.65	105.74	5	3
28.550	106.790	-26.550	-100.790	38.93	39.59	2.34	5.80	12.13	5	3
28.650	107.118	-26.650	-101.118	32.16	32.56	2.27	6.85	78.71	5	3
28.750	107.446	-26.750	-101.446	30.84	31.24	2.27	7.32	126.29	5	2
28.850	107.774	-26.850	-101.774	35.46	36.47	2.11	5.83	111.02	5	3
28.950	108.102	-26.950	-102.102	31.54	31.70	1.79	5.66	77.66	5	3
29.050	108.430	-27.050	-102.430	36.51	37.27	2.19	6.01	104.99	5	3
29.150	108.759	-27.150	-102.759	34.63	35.20	2.40	7.99	105.29	5	3

Run No: CS-0308-1250-5730
CPT File: 7210P05.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
33.250	109.087	-33.250	-109.087	30.88	31.31	1.69	5.75	51.29	4	3
33.350	109.415	-33.350	-109.415	36.95	37.87	1.27	3.35	155.25	5	3
33.450	109.743	-33.450	-109.743	61.63	62.59	1.06	2.69	281.42	6	3
33.550	110.073	-33.550	-110.073	25.21	25.72	0.66	2.68	319.85	5	1
33.650	110.399	-33.650	-110.399	41.84	42.68	2.05	4.82	378.43	6	3
33.750	110.727	-33.750	-110.727	51.41	51.82	2.91	5.62	38.91	7	3
33.850	111.055	-33.850	-111.055	43.24	43.54	2.62	6.01	42.53	7	3
33.950	111.383	-33.950	-111.383	31.54	31.90	2.23	6.96	77.39	7	3
34.050	111.711	-34.050	-111.711	35.94	36.31	2.28	6.21	154.25	7	3
34.150	112.039	-34.150	-112.039	37.41	38.25	2.15	5.61	151.97	7	3
34.250	112.367	-34.250	-112.367	34.24	35.73	1.81	5.08	159.54	7	3
34.350	112.695	-34.350	-112.695	44.70	45.32	2.07	4.56	239.56	6	3
34.450	113.024	-34.450	-113.024	56.10	56.91	2.68	4.68	272.82	6	3
34.550	113.352	-34.550	-113.352	48.65	49.44	2.42	4.65	168.93	7	3
34.650	113.680	-34.650	-113.680	45.76	45.26	2.11	4.65	320.51	6	3
34.750	114.008	-34.750	-114.008	39.54	40.53	2.31	5.70	206.81	7	3
34.850	114.336	-34.850	-114.336	35.71	35.36	2.09	5.65	162.56	7	3
34.950	114.664	-34.950	-114.664	38.49	39.10	1.76	4.51	130.97	6	3
35.050	114.992	-35.050	-114.992	36.09	36.96	1.63	4.58	154.78	6	3
35.150	115.320	-35.150	-115.320	36.96	37.84	1.73	4.67	157.73	6	3
35.250	115.648	-35.250	-115.648	33.06	33.85	1.72	5.09	175.25	7	3
35.350	115.976	-35.350	-115.976	30.90	31.62	1.58	5.02	196.22	7	3
35.450	116.304	-35.450	-116.304	32.45	33.36	1.63	4.88	210.65	6	3
35.550	116.632	-35.550	-116.632	31.15	31.83	1.68	4.79	192.29	6	3
35.650	116.961	-35.650	-116.961	35.35	36.26	1.71	4.74	192.95	6	3
35.750	117.289	-35.750	-117.289	35.31	36.17	1.68	4.26	198.57	6	3
35.850	117.617	-35.850	-117.617	30.09	31.02	1.45	4.67	196.42	6	3
35.950	117.945	-35.950	-117.945	33.45	33.82	1.28	3.82	246.87	7	3
36.050	118.273	-36.050	-118.273	36.29	36.75	1.22	3.37	317.38	8	3
36.150	118.601	-36.150	-118.601	35.86	37.27	1.56	4.34	359.53	8	3
36.250	118.929	-36.250	-118.929	37.63	38.35	1.75	4.63	385.40	8	3
36.350	119.257	-36.350	-119.257	41.69	42.35	1.83	4.24	316.32	8	3
36.450	119.585	-36.450	-119.585	44.54	46.44	1.82	3.96	321.84	8	3
36.550	119.913	-36.550	-119.913	43.00	44.16	2.10	5.21	324.60	7	3
36.650	120.241	-36.650	-120.241	38.74	39.43	2.12	5.38	149.50	7	3
36.750	120.569	-36.750	-120.569	48.04	48.80	2.13	4.38	161.33	8	3
36.850	120.897	-36.850	-120.897	56.44	57.12	2.58	4.61	203.99	8	3
36.950	121.226	-36.950	-121.226	56.38	58.21	2.69	4.61	192.91	8	3
37.050	121.554	-37.050	-121.554	55.85	57.89	2.53	4.44	410.09	8	3
37.150	121.882	-37.150	-121.882	49.04	51.38	1.12	2.30	459.21	8	3

Interpretation Output - Release 1.20 Rev. A - Build 6 Format: GLP Imperial
Run No: 05-0328-1255-5780
Job No: 05-721
Client: GeoSyntec Consultants
Project: Eagle Point Landfill - Wilmington, Delaware
Site: CPT-05-006
Location: Unguded Plant
Cone 20 TON ADD67
CPT Date 03/04/05
CPT Time 14:11
CPT File 721P006.COA
Northing (m) 0 000000
Easting (m) 0 000000
Elevation (m) 0 000000

Water Table (m): 15.43 Incl 49.7
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (m): 0.10
Su Not Used. 15.00 Su/P' Incl: 0.30
Su Method . Jamiolkowski - All Soils
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Nkt(s) Calculated using qtnc
Nkt(u) Calculated using qtnet

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-BC (Zone)	Col-13 SBT-Soil (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 ? Stress (tsf)	Col-17 U Stress (tsf)	Col-18 T Stress (tsf)	Col-19 Dr	Col-20 Su(c) Su/P'
0.050	0.164	7	-9999.0	5.0E-05	114.6	0.009	0.000	0.009	2.01	9.2
0.150	0.492	7	-9999.0	5.0E-04	117.7	0.028	0.000	0.028	2.01	11.9
0.250	0.820	8	-9999.0	5.0E-03	120.9	0.046	0.000	0.046	2.01	15.2
0.350	1.148	9	7	5.0E-04	117.7	0.066	0.000	0.066	2.01	24.4
0.450	1.476	7	7	5.0E-05	114.6	0.087	0.000	0.087	2.01	31.5
0.550	1.804	6	6	5.0E-06	114.6	0.105	0.000	0.105	2.01	6.3
0.650	2.133	6	6	5.0E-05	114.6	0.124	0.000	0.124	2.01	5.9
0.750	2.461	5	6	5.0E-06	114.6	0.143	0.000	0.143	2.01	5.5
0.850	2.789	4	5	1.0E-07	111.4	0.161	0.000	0.161	2.01	5.1
0.950	3.117	3	5	1.0E-07	111.4	0.180	0.000	0.180	2.01	5.0
1.050	3.445	3	4	5.0E-08	111.4	0.198	0.000	0.198	2.01	5.5
1.150	3.773	8	7	1.0E-04	117.7	0.217	0.000	0.217	2.00	14.4
1.250	4.101	9	7	1.0E-04	117.7	0.236	0.000	0.236	2.00	19.9
1.350	4.429	8	7	1.0E-05	114.6	0.255	0.000	0.255	1.99	21.4
1.450	4.757	7	6	5.0E-06	114.6	0.274	0.000	0.274	1.91	17.6
1.550	5.085	7	6	5.0E-05	114.6	0.293	0.000	0.293	1.85	20.9
1.650	5.413	4	6	5.0E-08	111.4	0.311	0.000	0.311	1.79	14.4
1.750	5.741	4	6	5.0E-08	111.4	0.330	0.000	0.330	1.74	13.6
1.850	6.069	6	6	5.0E-06	114.6	0.348	0.000	0.348	1.69	8.1
1.950	6.398	6	6	5.0E-07	114.6	0.367	0.000	0.367	1.65	6.9
2.050	6.726	6	6	5.0E-06	114.6	0.386	0.000	0.386	1.61	6.5
2.150	7.054	5	5	5.0E-01	114.6	0.405	0.000	0.405	1.57	6.8
2.250	7.382	5	5	5.0E-08	111.4	0.423	0.000	0.423	1.54	12.7
2.350	7.710	5	5	5.0E-08	111.4	0.441	0.000	0.441	1.51	10.8
2.450	8.038	5	5	5.0E-08	111.4	0.460	0.000	0.460	1.48	7.7
2.550	8.366	6	5	5.0E-06	114.6	0.478	0.000	0.478	1.45	7.7
2.650	8.694	5	5	5.0E-06	114.6	0.497	0.000	0.497	1.42	6.6
2.750	9.022	6	5	1.0E-05	114.6	0.516	0.000	0.516	1.39	5.9
2.850	9.350	6	6	5.0E-05	114.6	0.535	0.000	0.535	1.37	7.0
2.950	9.678	7	6	1.0E-04	117.7	0.554	0.000	0.554	1.34	8.8
3.050	10.006	6	5	5.0E-06	114.6	0.573	0.000	0.573	1.32	5.4
3.150	10.335	7	6	5.0E-04	117.7	0.592	0.000	0.592	1.30	11.0

Run No. 05-0126-1258-5781
CPT File 721C926.CCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-RG (Zone)	Col-13 SBT-BQn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 U Stress (tsf)	Col-19 Fs	Col-20 Rf (%)
3.250	10.663	8	6	5.0E-04	117.7	0.611	0.000	0.611	1.26	16.9
3.300	10.991	6	6	5.0E-04	117.7	0.715	0.000	0.638	1.26	24.0
3.450	11.319	8	6	5.0E-04	114.5	0.745	0.000	0.669	1.24	13.9
3.500	11.647	8	6	5.0E-04	117.7	0.565	0.000	0.669	1.22	11.7
3.650	11.975	6	5	5.0E-05	111.4	0.687	0.000	0.687	1.21	15.0
3.700	12.303	5	4	5.0E-05	116.6	0.706	0.000	0.706	1.19	4.9
3.850	12.631	4	4	5.0E-05	114.6	0.726	0.000	0.726	1.17	5.0
3.950	12.959	5	5	5.0E-05	114.6	0.743	0.000	0.743	1.16	8.7
4.050	13.287	6	5	5.0E-05	114.6	0.762	0.000	0.762	1.16	7.9
4.150	13.615	5	4	5.0E-05	111.4	0.781	0.000	0.781	1.17	11.6
4.250	13.943	4	4	5.0E-05	111.4	0.799	0.100	0.799	1.13	7.9
4.350	14.271	7	6	5.0E-04	117.7	0.636	0.000	0.818	1.11	17.8
4.450	14.601	8	6	5.0E-04	117.7	0.837	0.000	0.837	1.09	15.3
4.550	14.929	6	5	5.0E-05	114.6	0.857	0.000	0.856	1.06	8.2
4.650	15.255	7	6	5.0E-05	114.6	0.671	0.000	0.875	1.07	10.7
4.750	15.584	9	6	5.0E-05	111.6	0.694	0.000	0.894	1.06	13.1
4.850	15.912	8	6	5.0E-04	117.7	0.913	0.000	0.913	1.05	19.2
4.950	16.240	8	6	5.0E-04	117.7	0.932	0.000	0.932	1.04	15.6
5.050	16.568	7	6	5.0E-05	114.6	0.951	0.000	0.951	1.03	16.6
5.150	16.896	8	6	5.0E-05	114.6	0.970	0.000	0.970	1.02	20.1
5.250	17.224	9	6	5.0E-05	114.6	0.989	0.000	0.989	1.01	12.6
5.350	17.553	8	6	5.0E-04	117.7	1.008	0.000	1.008	1.00	11.4
5.450	17.881	7	6	5.0E-05	114.6	1.027	0.200	1.127	0.89	8.6
5.550	18.209	6	5	5.0E-05	114.6	1.046	0.200	1.146	0.88	5.4
5.650	18.537	7	6	5.0E-05	114.6	1.065	0.200	1.165	0.87	7.6
5.750	18.865	5	4	5.0E-06	114.6	1.083	0.600	1.283	0.55	4.3
5.850	19.193	4	7	5.0E-08	111.4	1.102	0.200	1.102	0.95	7.2
5.950	19.521	7	6	5.0E-05	114.6	1.120	0.000	1.120	0.94	14.1
6.150	19.849	6	5	5.0E-06	114.5	1.139	0.500	1.139	0.64	7.6
6.150	20.177	4	1	5.0E-05	114.6	1.158	0.200	1.158	0.83	5.6
6.250	20.505	4	1	5.0E-06	114.6	1.177	0.000	1.177	0.92	6.1
6.350	20.833	4	1	5.0E-06	114.6	1.196	0.000	1.196	0.91	5.3
6.450	21.161	4	1	5.0E-06	114.6	1.214	0.000	1.214	0.91	5.5
6.550	21.489	4	1	5.0E-06	114.6	1.233	0.000	1.233	0.90	5.1
6.650	21.817	6	4	5.0E-06	114.6	1.252	0.000	1.252	0.89	6.0
6.750	22.145	5	4	5.0E-07	114.6	1.271	0.000	1.271	1.00	9.9
6.850	22.473	7	5	5.0E-05	114.6	1.290	0.000	1.290	1.02	8.2
6.950	22.802	8	5	5.0E-04	117.7	1.309	0.000	1.309	1.00	12.7
7.050	23.130	7	5	5.0E-05	114.6	1.328	0.000	1.328	1.01	10.5
7.150	23.458	7	5	5.0E-03	120.9	1.347	0.000	1.347	0.84	6.5
7.250	23.786	8	5	5.0E-04	117.7	1.367	0.000	1.367	0.84	6.7
7.350	24.114	9	5	5.0E-03	120.9	1.386	0.000	1.386	0.85	11.6
7.450	24.442	5	5	5.0E-05	114.6	1.405	0.000	1.405	0.84	8.0
7.550	24.770	8	6	5.0E-05	114.6	1.424	0.000	1.424	0.84	10.0
7.550	25.099	7	5	5.0E-05	114.6	1.443	0.000	1.443	0.83	15.0
7.750	25.427	9	5	5.0E-06	114.5	1.462	0.000	1.462	0.82	23.3
7.850	25.754	8	6	5.0E-04	117.7	1.481	0.000	1.481	0.82	18.1
7.950	26.083	8	5	5.0E-05	114.6	1.500	0.100	1.500	0.82	16.7
8.050	26.411	7	5	5.0E-06	114.6	1.519	0.200	1.519	0.81	13.4
8.150	26.739	8	5	5.0E-05	114.6	1.537	0.200	1.538	0.81	14.3
8.250	27.067	8	6	5.0E-05	114.6	1.556	0.200	1.556	0.80	24.2
8.350	27.395	8	6	5.0E-04	117.7	1.575	0.100	1.575	0.80	22.2
8.450	27.723	8	6	5.0E-05	114.6	1.594	0.100	1.594	0.79	19.4
8.550	28.051	9	6	5.0E-06	117.7	1.614	0.000	1.614	0.79	19.3
8.650	28.379	9	5	5.0E-07	114.6	1.633	0.000	1.633	0.78	21.9
8.750	28.707	8	6	5.0E-07	114.6	1.652	0.000	1.652	0.78	19.8
8.850	29.035	7	5	5.0E-04	117.7	1.672	0.000	1.672	0.77	13.3
8.950	29.363	9	6	5.0E-05	114.6	1.692	0.000	1.692	0.77	12.7
9.050	29.691	9	6	5.0E-05	114.6	1.711	0.200	1.711	0.76	46.1
9.150	30.019	9	6	5.0E-06	114.6	1.730	0.100	1.731	0.76	16.5

Run No: 05-0905-1252-6702
CPT File: V21C705.DGR

Col-01 Depth (ft)	Col-02 Depth (cm)	Col-03 SBT-PG (Zone)	Col-04 NTG-PGn (Zone)	Col-05 Perm-k (cm/s)	Col-06 Unit Wt (pcf)	Col-07 T Stress (ksf)	Col-08 E Stress (ksf)	Col-09 Cn	Col-10 N60 (b/ft)
9.250	10.347	7	5	5.0E-04	117.7	1.749	0.000	1.749	0.76	11.4
9.360	10.675	7	5	5.0E-04	117.7	1.769	0.000	1.769	0.75	9.7
9.450	11.004	7	4	5.0E-05	114.6	1.788	0.000	1.788	0.75	8.5
9.550	11.332	7	4	5.0E-05	114.6	1.806	0.000	1.806	0.74	8.2
9.650	11.660	6	4	5.0E-05	114.6	1.825	0.000	1.825	0.74	7.7
9.750	11.988	7	5	5.0E-04	117.7	1.844	0.000	1.844	0.74	7.7
9.850	12.316	7	5	5.0E-04	117.7	1.864	0.000	1.864	0.73	10.2
9.950	12.644	7	5	5.0E-04	117.7	1.883	0.000	1.883	0.73	10.7
10.050	12.972	8	5	5.0E-04	117.7	1.902	0.000	1.902	0.73	12.0
10.150	13.300	9	6	5.0E-03	124.1	1.922	0.000	1.922	0.72	12.4
10.250	13.629	9	6	5.0E-03	124.1	1.942	0.000	1.942	0.72	22.9
10.350	13.956	8	5	5.0E-04	117.7	1.962	0.000	1.962	0.72	10.3
10.450	14.284	8	5	5.0E-05	114.6	1.981	0.000	1.981	0.71	15.0
10.550	14.612	7	5	5.0E-05	114.6	2.000	0.000	2.000	0.71	14.7
10.650	14.941	7	5	5.0E-05	114.6	2.019	0.000	2.019	0.70	13.4
10.750	15.269	5	3	5.0E-07	114.6	2.038	0.000	2.038	0.70	6.2
10.850	15.597	6	4	5.0E-05	114.6	2.057	0.000	2.057	0.70	13.9
10.950	15.925	4	5	5.0E-05	114.6	2.075	0.000	2.075	0.69	25.0
11.050	16.253	4	6	5.0E-04	117.7	2.094	0.000	2.094	0.69	25.5
11.150	16.581	7	5	5.0E-05	114.6	2.113	0.000	2.113	0.69	16.2
11.250	16.909	7	4	5.0E-07	114.6	2.132	0.000	2.132	0.68	6.7
11.350	17.237	7	5	5.0E-05	114.6	2.151	0.000	2.151	0.68	21.1
11.450	17.565	7	5	5.0E-05	114.6	2.170	0.000	2.170	0.68	21.5
11.550	17.893	5	3	5.0E-07	114.6	2.189	0.000	2.189	0.68	8.7
11.650	18.221	5	3	5.0E-05	114.6	2.207	0.000	2.207	0.67	11.0
11.750	18.549	8	5	5.0E-04	117.7	2.226	0.000	2.226	0.67	21.8
11.850	18.877	8	5	5.0E-05	114.6	2.246	0.000	2.246	0.67	22.6
11.950	19.205	9	6	5.0E-04	117.7	2.265	0.000	2.265	0.66	32.6
12.050	19.534	9	6	5.0E-04	117.7	2.284	0.000	2.284	0.66	33.0
12.150	19.862	8	5	5.0E-05	114.6	2.303	0.000	2.303	0.66	23.6
12.250	20.190	8	5	5.0E-05	114.6	2.322	0.000	2.322	0.66	26.1
12.350	20.518	7	4	5.0E-07	114.6	2.341	0.000	2.341	0.65	16.6
12.450	20.846	7	4	5.0E-06	114.6	2.359	0.000	2.359	0.65	15.3
12.550	21.174	4	3	5.0E-07	114.6	2.378	0.000	2.378	0.65	5.5
12.650	21.502	5	3	5.0E-05	114.6	2.397	0.000	2.397	0.65	7.6
12.750	21.830	8	5	5.0E-05	114.6	2.416	0.000	2.416	0.64	15.6
12.850	22.158	9	6	5.0E-04	117.7	2.435	0.000	2.435	0.64	31.9
12.950	22.486	9	6	5.0E-03	124.1	2.455	0.000	2.455	0.64	39.9
13.050	22.814	9	6	5.0E-04	117.7	2.474	0.000	2.474	0.64	17.1
13.150	23.143	8	5	5.0E-05	114.6	2.493	0.000	2.493	0.63	19.4
13.250	23.471	8	5	5.0E-05	114.6	2.512	0.000	2.512	0.63	21.2
13.350	23.799	9	6	5.0E-04	117.7	2.531	0.000	2.531	0.63	33.1
13.450	24.127	9	6	5.0E-04	117.7	2.550	0.000	2.550	0.63	43.2
13.550	24.455	7	5	5.0E-07	114.6	2.569	0.000	2.569	0.62	21.1
13.650	24.783	8	5	5.0E-05	114.6	2.589	0.000	2.589	0.62	19.0
13.750	25.111	8	5	5.0E-05	114.6	2.607	0.000	2.607	0.62	21.2
13.850	25.439	9	6	5.0E-04	117.7	2.626	0.000	2.626	0.62	33.1
13.950	25.767	8	5	5.0E-04	114.6	2.645	0.000	2.645	0.61	25.8
14.050	26.095	8	5	5.0E-05	114.6	2.664	0.000	2.664	0.61	30.0
14.150	26.423	8	5	5.0E-04	117.7	2.683	0.000	2.683	0.61	27.6
14.250	26.751	8	5	5.0E-06	114.6	2.702	0.000	2.702	0.61	28.4
14.350	27.079	9	5	5.0E-04	117.7	2.721	0.000	2.721	0.61	25.5
14.450	27.408	8	5	5.0E-06	114.6	2.740	0.000	2.740	0.60	27.8
14.550	27.736	8	5	5.0E-05	114.6	2.759	0.000	2.759	0.60	26.1
14.650	28.064	8	5	5.0E-04	117.7	2.778	0.000	2.778	0.60	27.3
14.750	28.392	7	5	5.0E-05	114.6	2.797	0.000	2.797	0.60	20.1
14.850	28.720	7	4	5.0E-06	114.6	2.816	0.000	2.816	0.60	20.4
14.950	29.048	8	5	5.0E-05	114.6	2.834	0.000	2.834	0.59	29.7
15.050	29.376	8	5	5.0E-04	117.7	2.854	0.000	2.854	0.59	25.8
15.150	29.704	7	4	5.0E-05	114.6	2.873	0.002	2.871	0.59	13.5

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQa (Zone)	Col-14 Perm K (m/s)	Col-15 Unit Wt (pcf)	Col-16 V Stress (tsf)	Col-17 E Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 N60 (/ft)
15.250	50.032	5	5	2.0E-05	114.6	2.873	0.912	3.479	0.59	6.7
15.350	50.360	4	5	1.8E-05	114.6	2.910	0.922	3.488	0.59	6.5
15.450	50.688	4	5	1.7E-05	114.6	2.929	0.922	3.497	0.59	6.8
15.550	51.018	4	5	1.6E-05	114.6	2.948	0.943	3.505	0.59	6.8
15.650	51.345	4	5	1.6E-05	114.6	2.967	0.953	3.514	0.59	6.8
15.750	51.673	4	5	1.6E-05	114.6	2.985	0.963	3.522	0.59	6.8
15.850	52.001	4	5	1.6E-05	114.6	3.004	0.973	3.531	0.58	6.8
15.950	52.329	4	5	1.6E-05	114.6	3.023	0.984	3.539	0.58	6.8
16.050	52.657	3	5	1.6E-05	114.6	3.042	0.994	3.548	0.58	6.6
16.150	52.985	3	5	1.6E-05	114.6	3.061	1.004	3.556	0.58	6.6
16.250	53.313	4	5	1.6E-05	114.6	3.079	1.014	3.565	0.58	6.9
16.350	53.641	4	5	1.6E-05	114.6	3.098	1.024	3.574	0.58	6.9
16.450	53.969	4	5	1.6E-05	114.6	3.117	1.035	3.582	0.58	6.8
16.550	54.297	3	5	1.6E-05	114.6	3.136	1.045	3.591	0.58	6.6
16.650	54.625	4	5	1.6E-05	114.6	3.155	1.055	3.599	0.58	6.9
16.750	54.953	5	5	1.6E-05	114.6	3.173	1.066	3.608	0.58	6.9
16.850	55.281	5	5	1.6E-05	114.6	3.192	1.076	3.616	0.58	6.9
16.950	55.610	5	5	1.6E-05	114.6	3.211	1.086	3.625	0.58	6.9
17.050	55.938	5	5	1.6E-05	114.6	3.230	1.096	3.633	0.57	6.8
17.150	56.266	5	5	1.6E-05	114.6	3.249	1.107	3.642	0.57	6.8
17.250	56.594	6	5	1.6E-05	114.6	3.267	1.117	3.650	0.57	6.8
17.350	56.922	6	5	1.6E-05	114.6	3.286	1.127	3.659	0.57	6.8
17.450	57.250	6	5	1.6E-05	114.6	3.305	1.137	3.668	0.57	6.9
17.550	57.578	6	5	1.6E-05	114.6	3.324	1.148	3.676	0.57	6.9
17.650	57.906	6	5	1.6E-05	114.6	3.342	1.158	3.685	0.57	6.9
17.750	58.234	6	5	1.6E-05	114.6	3.361	1.168	3.693	0.57	6.9
17.850	58.562	5	5	1.6E-05	114.6	3.380	1.178	3.702	0.57	6.8
17.950	58.890	5	5	1.6E-05	114.6	3.399	1.189	3.710	0.57	6.8
18.050	59.218	5	5	1.6E-05	114.6	3.418	1.199	3.719	0.57	6.8
18.150	59.547	5	5	1.6E-05	114.6	3.436	1.209	3.727	0.57	6.8
18.250	59.875	5	5	1.6E-05	114.6	3.455	1.219	3.736	0.56	6.8
18.350	60.203	6	5	1.6E-05	114.6	3.474	1.229	3.745	0.56	6.8
18.450	60.531	6	5	1.6E-05	114.6	3.493	1.240	3.753	0.56	6.8
18.550	60.859	6	5	1.6E-05	114.6	3.512	1.250	3.762	0.56	6.8
18.650	61.187	6	5	1.6E-05	114.6	3.530	1.260	3.770	0.56	6.8
18.750	61.515	7	6	1.6E-04	117.7	3.549	1.270	3.779	0.55	19.0
18.850	61.843	8	6	1.0E-03	120.9	3.569	1.281	3.788	0.55	24.0
18.950	62.171	8	6	1.0E-04	117.7	3.588	1.291	3.796	0.55	19.7
19.050	62.499	6	6	1.0E-05	114.6	3.606	1.301	3.805	0.54	9.3
19.150	62.827	6	5	1.0E-05	114.6	3.625	1.311	3.814	0.54	8.3
19.250	63.155	6	5	1.0E-05	114.6	3.644	1.322	3.822	0.54	8.2
19.350	63.483	6	5	1.0E-05	114.6	3.663	1.332	3.831	0.54	7.2
19.450	63.812	4	5	1.0E-05	114.6	3.681	1.342	3.839	0.54	5.0
19.550	64.140	4	5	1.0E-05	114.6	3.700	1.352	3.848	0.55	4.9
19.650	64.468	4	5	1.0E-06	114.6	3.719	1.363	3.856	0.55	5.1
19.750	64.796	5	5	1.0E-06	114.6	3.739	1.373	3.865	0.55	6.1
19.850	65.124	5	5	1.0E-06	114.6	3.758	1.383	3.875	0.55	6.1
19.950	65.452	5	5	1.0E-07	114.6	3.777	1.393	3.883	0.55	10.0
20.050	65.780	8	6	1.0E-05	114.6	3.796	1.404	3.892	0.55	29.7
20.150	66.108	9	6	1.0E-03	120.9	3.815	1.414	3.900	0.55	31.9
20.250	66.436	9	6	1.0E-03	124.1	3.835	1.425	3.909	0.55	31.6
20.350	66.764	9	6	1.0E-03	124.1	3.855	1.436	3.917	0.55	31.6
20.450	67.092	9	6	1.0E-03	124.1	3.876	1.446	3.926	0.55	31.9
20.550	67.420	9	6	1.0E-03	124.1	3.896	1.457	3.934	0.55	32.2
20.650	67.749	9	6	1.0E-03	127.3	3.917	1.468	4.057	0.54	37.7
20.750	68.077	10	6	1.0E-03	127.3	3.938	1.479	4.062	0.55	33.6
20.850	68.405	9	6	1.0E-03	124.1	3.958	1.489	4.071	0.54	37.2
20.950	68.733	9	6	1.0E-03	120.9	3.978	1.500	4.080	0.54	35.1
21.050	69.061	8	6	1.0E-03	114.6	3.998	1.511	4.088	0.54	29.5
21.150	69.389	8	6	1.0E-04	114.6	4.017	1.521	4.097	0.54	29.1

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT BQ (Zone)	Col-13 SBT BQn (Zone)	Col-14 Norm Q (q-f)/s	Col-15 Qnet Mc (tsf)	Col-16 Y Stress (tsf)	Col-17 U Stress (tsf)	Col-18 Y Stress (tsf)	Col-19 Fr	Col-20 NSG (%/tsf)
21.250	69.717	8	8	5.0E-08	111.4	4.085	0.022	3.405	0.54	36.1
21.350	70.045	8	8	5.0E-08	111.4	4.053	0.022	3.417	0.54	35.9
21.450	70.373	8	8	5.0E-08	111.4	4.072	0.022	3.425	0.54	41.6
21.550	70.701	8	8	5.0E-07	116.6	4.090	0.457	3.433	0.54	38.7
21.650	71.025	8	8	5.0E-08	111.4	4.109	0.460	3.441	0.54	42.1
21.750	71.357	8	8	5.0E-08	111.4	4.127	0.478	3.449	0.54	37.3
21.850	71.685	7	8	5.0E-07	116.6	4.145	0.563	3.457	0.54	23.2
21.950	72.014	7	8	5.0E-08	111.4	4.164	0.698	3.466	0.54	31.9
22.050	72.342	8	8	5.0E-06	124.6	4.183	0.707	3.474	0.54	19.8
22.150	72.670	8	8	5.0E-07	116.6	4.202	0.715	3.483	0.54	27.9
22.250	72.998	7	8	5.0E-07	116.6	4.220	0.727	3.491	0.54	15.9
22.350	73.326	7	8	5.0E-07	116.6	4.239	0.739	3.500	0.53	13.5
22.450	73.654	7	8	5.0E-07	116.6	4.258	0.745	3.509	0.53	12.6
22.550	73.982	7	8	5.0E-07	116.6	4.276	0.760	3.517	0.53	33.9
22.650	74.310	7	8	5.0E-07	116.6	4.295	0.772	3.525	0.53	32.8
22.750	74.638	7	8	5.0E-07	116.6	4.313	0.785	3.533	0.53	31.3
22.850	74.966	7	8	5.0E-07	116.6	4.332	0.795	3.541	0.53	30.5
22.950	75.294	7	8	5.0E-07	116.6	4.349	0.801	3.549	0.53	32.9
23.050	75.622	7	8	5.0E-07	116.6	4.368	0.811	3.557	0.53	22.5
23.150	75.951	6	8	5.0E-07	120.9	4.387	0.821	3.566	0.53	28.9
23.250	76.279	6	8	1.0E-04	219.7	4.407	0.841	3.575	0.53	39.6
23.350	76.607	6	8	1.0E-04	219.7	4.426	0.843	3.584	0.53	37.5
23.450	76.935	6	8	1.0E-07	220.9	4.446	0.862	3.594	0.53	22.5
23.550	77.263	6	8	1.0E-07	220.9	4.466	0.882	3.604	0.53	24.6
23.650	77.593	6	8	1.0E-07	220.9	4.485	0.892	3.613	0.53	28.7
23.750	77.919	6	8	1.0E-07	220.9	4.505	0.901	3.623	0.53	37.9
23.850	78.247	6	8	1.0E-07	124.1	4.525	0.921	3.632	0.52	29.6
23.950	78.575	6	8	5.0E-07	124.1	4.546	0.941	3.643	0.52	27.8
24.050	78.903	6	8	5.0E-07	124.1	4.566	0.951	3.653	0.52	28.9
24.150	79.231	6	8	5.0E-07	124.1	4.586	0.971	3.663	0.52	25.6
24.250	79.559	6	8	5.0E-07	124.1	4.606	0.981	3.673	0.52	27.9
24.350	79.887	6	8	5.0E-07	124.1	4.626	0.991	3.683	0.52	24.5
24.450	80.215	8	8	5.0E-06	131.4	4.646	0.994	3.691	0.52	16.1
24.550	80.544	7	8	5.0E-06	126.1	4.666	0.996	3.700	0.52	16.2
24.650	80.872	7	8	5.0E-07	126.1	4.686	0.996	3.709	0.52	19.6
24.750	81.200	7	8	5.0E-08	111.4	4.702	0.996	3.717	0.52	22.1
24.850	81.528	7	8	5.0E-08	111.4	4.720	0.996	3.726	0.52	21.0
24.950	81.856	7	8	5.0E-06	111.4	4.739	1.016	3.733	0.52	21.4
25.050	82.184	7	8	5.0E-06	111.4	4.759	1.016	3.741	0.52	22.1
25.150	82.512	7	8	5.0E-06	111.4	4.779	1.036	3.749	0.52	20.9
25.250	82.840	6	8	5.0E-08	111.4	4.793	1.036	3.757	0.52	20.1
25.350	83.169	6	8	5.0E-06	111.4	4.811	1.047	3.765	0.52	20.2
25.450	83.496	7	8	5.0E-08	111.4	4.830	1.057	3.773	0.51	24.3
25.550	83.824	7	8	5.0E-06	111.4	4.849	1.057	3.781	0.51	25.4
25.650	84.153	7	8	5.0E-06	111.4	4.866	1.077	3.789	0.51	23.8
25.750	84.481	8	8	5.0E-07	116.6	4.885	1.088	3.797	0.51	25.2
25.850	84.809	7	8	5.0E-06	111.4	4.903	1.098	3.805	0.51	21.1
25.950	85.137	7	8	5.0E-08	111.4	4.922	1.108	3.814	0.51	19.7
26.050	85.465	7	8	5.0E-06	111.4	4.940	1.118	3.822	0.51	20.8
26.150	85.793	8	8	5.0E-06	111.4	4.958	1.128	3.830	0.51	20.7
26.250	86.121	8	8	5.0E-06	111.4	4.976	1.139	3.838	0.51	19.1
26.350	86.449	8	8	5.0E-06	111.4	4.995	1.149	3.846	0.51	16.9
26.450	86.777	8	8	5.0E-06	111.4	5.013	1.159	3.854	0.51	16.6
26.550	87.105	8	8	5.0E-06	111.4	5.031	1.169	3.862	0.51	19.2
26.650	87.433	7	8	5.0E-06	111.4	5.047	1.180	3.870	0.51	20.5
26.750	87.761	7	8	5.0E-06	111.4	5.063	1.190	3.878	0.51	20.1
26.850	88.089	7	8	5.0E-06	111.4	5.080	1.200	3.886	0.51	20.3
26.950	88.419	7	8	5.0E-06	111.4	5.104	1.210	3.894	0.51	26.9
27.050	88.746	7	8	5.0E-06	111.4	5.123	1.221	3.902	0.51	27.6
27.150	89.074	6	8	5.0E-06	111.4	5.141	1.231	3.910	0.51	27.2

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Col-01 Depth (ft)	Col-02 Depth (ft)	Col-12 SST-Hz (Zone)	Col-11 SST-Hz. (Zone)	Col-14 Pore-P (ct/s)	Col-15 Unic Hc (psi)	Col-16 T Stress (psi)	Col-17 H Stress (psi)	Col-18 h Stress (psi)	Col-19 Dt	Col-20 Rhb (g/cc)
27.250	89.402	7	4	1.02-07	116.6	5.150	1 241	3.938	0.51	18.3
27.350	89.730	7	3	9 62-08	111.4	5.176	1 251	3.917	0.50	22.0
27.450	90.056	7	4	9 02-08	111 4	5.196	1 262	3.936	0.50	28.3
27.550	90.386	7	4	9 02-08	111 4	5.214	1.272	3.943	0.50	35.1
27.650	90.716	7	4	9.02-08	111 4	5.233	1 283	1.151	0.50	38 4
27.750	91.042	7	4	9.02-08	111 4	5.252	1 293	1 959	0.50	34.1
27 850	91.370	7	4	9.02-08	111.4	5.269	1 303	3.967	0.50	33.7
27.550	91 696	7	4	9.02-08	111.4	5.286	1.313	3.975	0.50	33.7
28.050	92.026	8	4	9.02-07	116.6	5.306	1.323	3.983	0.50	26.1
28.150	92.355	8	5	9.02-07	120 9	5.325	1.333	3.992	0.50	20.7
28.250	92.683	8	5	9.02-02	124.1	5.366	1.344	4.012	0.50	21.7
28 350	93.013	8	5	9.02 02	124.1	5.366	1.354	4.012	0.50	21 6
28 450	93.339	8	5	9.02-02	120.9	5.386	1.364	4.022	0.50	21 2
28 550	93.667	8	4	9.02-06	117.7	5 401	1.374	4.011	0.50	19 1
28.650	93.995	8	5	9.02-03	120.9	5.425	1.385	4 042	0.50	11.6
28 750	94.323	8	5	9.02-02	124 1	5.445	1.395	4 050	0.50	17.4
28 850	94.651	8	5	9.02-02	120.9	5.465	1.405	4.050	0.50	20.0
28.550	94.979	8	5	9.02-04	117 7	5.485	1.415	4.070	0.50	19 2
29.050	95.307	7	4	9.02-04	117 7	5.504	1 421	4.079	0.50	13.4
29 150	95.635	8	4	1.02-03	114.6	5.523	1 431	4.078	0 50	20.2
29 250	95 963	8	4	1.02-07	114.6	5.542	1.441	4.096	0 50	26 5
29 350	96.291	8	4	9.02-08	111.4	5.561	1.451	4.104	0 50	40 2
29 450	96.620	8	4	9.02-05	114.6	5.579	1 462	4.111	0.50	39 3
29 550	96.948	9	5	9.02-01	120.9	5.598	1.472	4.122	0 50	39 2
29 650	97.276	9	5	9.02-01	124.1	5.619	1.482	4.132	0 50	20 1
29 750	97 604	8	4	9.02-06	111.9	5.618	1.492	4.141	0 50	14 5
29 850	97.932	7	3	9.02-06	111.9	5.638	1 502	4.150	0 50	9.3
29 950	98.260	7	3	1.02-01	114.6	5.677	1 512	4.159	0 50	13 5
30 050	98 588	7	3	9.02-03	111 4	5.695	1 522	4.167	0 50	25 4
30 150	98 916	7	3	9.02 03	111.4	5.714	1 533	4.175	0.50	26 2
30 250	99.244	7	3	1.02-04	111 4	5.733	1 543	4 183	0 50	30.4
30 350	99.572	8	4	1.02-03	111 4	5.750	1 553	4 191	0 50	37.1
30 450	99 900	8	4	5.02-03	111 4	5.769	1 563	4.199	0 50	39.4
30 550	100.226	8	4	5.02-08	111 4	5.787	1 573	4 207	0 50	32 5
30 650	100 557	8	5	9.02-05	114 6	5.805	1 583	4 216	0 50	19.2
30 750	100.885	9	5	1.02-02	124 1	5.825	1 593	4 223	0 50	28.4
30.850	101.213	9	6	9.02-07	124 1	5.845	1 603	4.235	0.50	29.5
30.950	101.541	9	6	9 02-02	124 1	5 865	1 613	4.215	0.50	24.8
31 050	101.869	9	6	9.02-01	120 9	5.886	1 623	4.259	0.50	17.1
31 150	102.197	8	5	9 02-04	117.7	5 905	1 633	4.266	0.50	12.1
31.250	102.525	8	5	9.02-05	114 6	5.924	1 653	4.273	0.50	13.1
31 350	102.853	8	5	1 02-03	114 6	5.945	1 653	4.282	0.50	17.4
31.450	103.181	8	5	9 02-05	114 6	5.962	1 671	4.290	0 50	24.5
31 550	103.509	8	5	9 02-07	114 6	5.981	1 682	4.299	0 50	33.8
31 650	103.837	8	5	9.02-08	111.4	5.999	1 692	4 307	0 50	42.3
31.750	104.165	7	4	9.02-08	111.4	6.017	1 702	4.316	0 50	41 3
31.850	104.493	7	4	9.02-07	114.6	6.036	1.711	4.324	0 50	35 2
31.950	104.822	7	4	9.02-03	111.4	6.055	1 722	4.182	0 50	41.5
32.050	105.150	8	4	9.02-03	111 4	6.073	1 731	4 340	0.50	42.1
32 150	105.478	7	3	1 02-04	111 4	6 092	1 743	4.348	0.50	33.2
32 250	105.806	7	3	9 02-03	111 4	6 109	1 751	1.356	0.50	27.3
32.350	106.134	6	4	9 02-07	114.6	6.128	1.764	4.364	0.50	25.5
32.450	106.463	7	4	9 0E-08	111.4	6 146	1.774	4.373	0.50	45.9
32.550	106 791	7	4	9.0E 08	111.4	6.164	1.784	4.381	0 50	37.5
32 650	107 119	7	4	9 0E-08	111 4	6 183	1 794	4 389	0.50	31.2
32 750	107 446	6	3	9 0E-08	111.4	6 201	1 805	4 397	0.50	28 6
32 850	107 774	6	3	9 0E-08	111.4	6.220	1.815	4.415	0.50	14.3
32.950	108.102	7	4	9 0E-06	111.4	6.238	1.825	4.413	0.50	11 4
33.050	108.430	6	3	9.0E-05	114.6	6.256	1.835	4 421	0.50	17 9
33 150	108.759	6	3	9.0E-05	114.6	6.275	1.846	4 430	0.50	14 9

Run No: 05-0508-1258-5766
DAT File: 721CP06.DAT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 Bio-Age (Zone)	Col-13 Bio-Age (Zone)	Col-14 Perm-k (md/s)	Col-15 Dnst Mt (pcf)	Col-16 T Stress (psi)	Col-17 U Stress (psi)	Col-18 E Stress (psi)	Col-19 Cp	Col-20 Nu (lb/in)
33.230	109.067	7	3	5.0E-07	114.6	6.214	1.851	4.436	0.50	20.0
33.360	109.416	6	3	5.0E-05	114.6	6.713	1.961	4.467	0.50	18.1
33.490	109.743	6	4	5.0E-05	114.6	6.732	1.975	4.494	0.50	16.2
33.620	110.071	4	3	5.0E-05	114.6	6.350	1.887	4.464	0.50	14.3
33.680	110.399	6	4	5.0E-07	114.6	6.369	1.897	4.472	0.50	21.2
33.750	110.727	8	4	5.0E-05	111.6	6.328	1.907	4.481	0.50	45.6
33.880	111.056	8	4	5.0E-05	111.6	6.425	1.917	4.489	0.50	41.7
34.010	111.383	7	4	5.0E-05	111.6	6.426	1.927	4.497	0.50	32.5
34.010	111.711	8	3	5.0E-05	111.6	6.642	1.938	4.505	0.50	35.2
34.210	112.041	6	1	5.0E-05	111.6	6.411	1.948	4.513	0.50	31.6
34.210	112.367	6	1	5.0E-06	111.6	6.479	1.958	4.521	0.50	34.2
34.310	112.695	6	4	5.0E-07	114.6	6.498	1.968	4.529	0.50	26.3
34.460	113.024	7	4	5.0E-07	114.6	6.516	1.979	4.538	0.50	37.6
34.560	113.352	7	4	5.0E-07	114.6	6.535	1.989	4.546	0.50	33.4
34.690	113.680	5	3	5.0E-07	114.6	6.554	1.999	4.554	0.50	28.9
34.790	114.008	4	3	5.0E-08	113.4	6.572	2.009	4.562	0.50	18.7
34.890	114.336	6	3	5.0E-08	113.4	6.591	2.020	4.570	0.50	24.8
34.990	114.664	7	4	5.0E-07	114.4	6.709	2.030	4.579	0.50	34.9
35.090	114.992	5	3	5.0E-07	114.5	6.528	2.040	4.586	0.50	29.8
35.190	115.320	4	3	5.0E-07	114.5	6.647	2.050	4.597	0.50	24.7
35.350	115.649	5	3	5.0E-08	113.4	6.665	2.071	4.605	0.50	32.4
35.350	115.976	5	3	5.0E-08	113.4	6.584	2.071	4.613	0.50	30.1
35.450	116.304	5	3	5.0E-07	114.6	6.702	2.081	4.621	0.50	31.3
35.550	116.633	6	3	5.0E-07	114.5	6.721	2.091	4.629	0.50	29.4
35.650	116.961	6	3	5.0E-07	114.4	6.740	2.102	4.638	0.50	29.7
35.750	117.289	4	3	5.0E-07	114.5	6.759	2.112	4.647	0.50	23.1
35.850	117.617	5	3	5.0E-07	114.4	6.777	2.122	4.655	0.50	29.8
35.950	117.945	5	3	5.0E-06	114.5	6.796	2.132	4.664	0.50	26.1
36.050	118.273	6	3	5.0E-06	114.5	6.815	2.143	4.672	0.50	27.5
36.150	118.601	5	3	5.0E-06	114.5	6.834	2.153	4.681	0.50	27.8
36.250	118.929	5	3	5.0E-07	114.5	6.851	2.163	4.689	0.50	26.7
36.350	119.257	6	3	5.0E-07	114.5	6.871	2.173	4.698	0.50	27.9
36.450	119.585	5	3	5.0E-06	114.5	6.890	2.184	4.707	0.50	22.2
36.550	119.913	6	3	5.0E-08	113.4	6.909	2.194	4.715	0.50	29.3
36.650	120.241	7	4	5.0E-08	113.4	6.927	2.204	4.723	0.50	37.8
36.750	120.569	7	4	5.0E-06	114.6	6.946	2.214	4.731	0.50	33.4
36.850	120.897	6	4	5.0E-05	114.6	6.964	2.225	4.740	0.50	27.0
36.950	121.226	6	4	5.0E-07	114.6	6.983	2.235	4.748	0.50	31.2
37.050	121.554	6	3	5.0E-05	114.6	7.002	2.245	4.757	0.50	27.0
37.150	121.882	5	3	5.0E-05	114.6	7.021	2.255	4.765	0.50	20.7

Geotec Inc. - CPT Interpretation
Interpretation Output - Release 3.22 Rev A - Build 5 Format: MLP Imperial
Run No: 03-0308-1256-5730
Job No: 03-721
Client: GeoSyntec Consultants
Project Pigeon Point Landfill Wilmington, Delaware
Note CPT-05-306
Location Pigeon Point
Cone 20 TON AD117
CPT Date: 05/26/03
CPT Time: 14:37
CPT File: 721CP05.COR
Sounding (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 15.13 (ft): 49.7
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
No Val used. 15.00 kg/cm² (ms). 0.10
Dr Method : Jamiolkowski - All Sands
Grain Parameter M 1.00
Used Unit Weights Assigned to Soil Zones
Ic/Qtn Calculated using qcln
Ic/Qtn Calculated using qtncs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Qt(60) (tsf)	Col-22 Ic(60)cs (tsf)	Col-23 Nc(60)cs (tsf)	Col-26 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FT (%)	Col-29 SoilBeh- (Zone)
0.050	0.164	16.5	-9999.0	-9999.0	2003.04	1.16	0.01	-9999.0	-9999.0	0
0.100	0.492	22.0	-9999.0	-9999.0	1910.11	1.00	0.01	-9999.0	-9999.0	0
0.150	0.820	30.5	-9999.0	-9999.0	1317.92	0.79	0.01	-9999.0	-9999.0	0
0.200	1.148	24.6	8.5	33.3	665.52	1.38	0.00	3.31	9.0	6
0.250	1.476	22.6	6.8	28.6	335.65	1.59	0.01	3.25	14.6	5
0.300	1.804	16.7	4.8	12.5	161.85	2.15	0.02	3.74	24.2	5
0.350	2.133	11.7	3.5	10.1	121.47	1.54	0.05	3.33	21.9	5
0.400	2.461	10.9	2.8	7.6	73.65	1.83	0.07	3.49	30.3	5
0.450	2.789	6.5	1.7	4.1	40.01	1.81	0.05	3.37	31.0	5
0.500	3.117	4.9	1.0	2.7	27.25	0.57	0.12	3.45	27.3	5
0.550	3.445	4.0	1.0	2.1	17.35	2.31	0.10	3.74	42.4	4
0.600	3.773	32.9	10.6	23.3	206.29	1.98	0.02	3.26	15.3	6
0.650	4.101	61.9	-9999.0	-9999.0	409.13	2.06	0.01	>999.0	-9999.0	7
0.700	4.429	42.5	-9999.0	-9999.0	217.68	2.63	0.00	-9999.0	-9999.0	7
0.750	4.757	23.5	6.1	11.9	68.35	3.43	0.01	3.52	31.6	4
0.800	5.085	20.2	4.7	12.7	56.36	2.59	0.01	3.40	26.3	5
0.850	5.413	25.8	6.0	13.1	67.19	5.46	0.01	3.66	38.2	4
0.900	5.741	23.6	5.7	11.5	61.53	4.52	0.01	3.63	37.0	4
0.950	6.069	13.8	4.2	9.6	47.69	2.75	0.04	3.62	41.7	4
1.000	6.398	8.1	2.1	5.8	29.85	2.94	0.11	3.75	43.3	4
1.050	6.726	7.2	2.4	6.4	33.17	2.30	0.12	3.55	37.9	4
1.100	7.054	7.4	3.3	8.6	39.91	2.29	0.06	3.53	36.1	4
1.150	7.382	10.5	3.2	7.6	36.41	4.32	0.03	3.76	44.4	4
1.200	7.710	15.0	3.1	7.1	32.61	5.37	0.04	3.87	49.3	4
1.250	8.038	11.3	2.7	5.7	24.41	6.91	0.07	3.95	62.2	3
1.300	8.366	11.2	4.1	9.4	40.73	2.94	0.05	3.35	31.6	5
1.350	8.694	6.3	2.6	5.9	28.41	2.34	0.04	3.59	40.2	4
1.400	9.022	8.2	3.9	8.5	38.71	1.59	0.03	3.45	34.2	5
1.450	9.350	9.5	4.4	8.5	38.06	1.90	0.04	3.57	33.9	5
1.500	9.678	13.8	6.2	8.5	40.57	1.39	0.01	3.29	23.1	5
1.550	10.006	7.9	3.0	5.2	19.64	1.12	0.10	3.61	37.6	4
1.600	10.335	16.9	8.3	13.2	61.09	0.78	0.02	3.04	24.9	5

Run No: 15-0303-1250-5760
DDS File: 121CP36.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col 21 Silicon (lb/ft)	Col 22 Silicon (lb/ft)	Col-23 Silicon (g/ft)	Col-24 Qt	Col 25 Sv (%)	Col-26 Eq	Col-27 Ic	Col-28 FC (%)	Col-29 IcZone (Zone)
3.250	10.663	23.6	19.9	14.2	84.94	1.20	0.01	2.13	15.0	5
3.350	10.991	31.2	25.7	20.2	122.16	1.30	0.09	2.04	14.1	4
3.450	11.319	23.6	19.3	14.4	75.42	2.45	0.09	2.33	23.8	5
3.550	11.647	22.6	19.7	14.6	81.76	1.40	0.09	2.14	17.1	5
3.650	11.975	28.2	6.7	6.6	21.86	5.52	0.01	2.87	62.1	6
3.750	12.303	9.6	8.9	6.8	33.45	2.38	0.05	2.83	46.9	6
3.850	12.631	5.6	2.5	1.2	9.32	2.46	0.18	3.37	81.4	1
3.950	12.959	30.1	6.7	5.4	21.61	7.38	0.05	3.67	78.1	6
4.050	13.287	5.3	4.4	6.3	26.67	2.35	0.01	2.53	15.8	4
4.150	13.615	12.8	3.6	4.4	13.23	4.91	0.09	2.99	48.1	1
4.250	13.943	11.0	3.6	4.1	13.63	4.41	0.21	3.04	53.5	1
4.350	14.271	14.2	9.8	10.2	40.06	1.44	0.02	2.29	27.1	5
4.450	14.600	20.6	12.5	14.1	47.47	1.74	0.01	2.25	19.5	5
4.550	14.928	8.9	4.9	5.4	18.58	1.88	0.21	2.78	44.8	4
4.650	15.256	11.5	6.7	7.1	18.98	1.44	0.06	2.43	27.7	5
4.750	15.584	14.5	8.4	9.1	36.97	1.77	0.00	2.40	24.5	5
4.850	15.912	20.1	13.1	14.2	64.77	1.79	0.00	2.25	20.0	5
4.950	16.240	18.1	12.9	13.7	61.09	1.96	0.00	2.26	21.7	5
5.050	16.568	17.0	11.7	12.2	50.67	2.55	0.00	2.42	27.3	5
5.150	16.896	20.7	12.4	12.9	53.80	2.51	0.00	2.38	25.7	5
5.250	17.224	12.5	9.3	9.4	31.81	2.59	0.00	2.55	32.2	5
5.350	17.552	14.9	9.6	9.6	43.62	1.87	0.00	2.21	19.5	5
5.450	17.880	8.5	6.0	5.8	20.89	2.08	0.00	2.64	37.8	6
5.550	18.208	4.7	4.5	4.2	14.92	1.57	0.00	2.70	40.6	6
5.650	18.537	7.4	5.4	5.0	17.61	1.82	0.00	2.59	30.7	6
5.750	18.865	4.7	3.2	2.3	8.35	2.11	0.02	2.98	57.1	3
5.850	19.193	6.4	3.0	2.4	5.83	4.15	0.32	3.25	80.5	3
5.950	19.521	11.3	5.0	5.5	31.50	2.02	0.02	2.17	26.2	5
6.050	19.849	7.1	4.8	4.1	12.95	2.92	0.02	2.90	51.9	6
6.150	20.177	7.1	4.7	5.4	31.11	1.33	0.29	2.76	43.6	6
6.250	20.505	5.7	3.8	3.2	5.91	1.72	0.31	2.87	59.2	6
6.350	21.833	5.3	1.7	2.9	9.06	1.94	0.31	2.92	53.9	6
6.450	21.162	5.4	1.3	3.8	5.20	2.06	0.39	3.04	54.5	6
6.550	21.489	5.2	1.4	2.6	8.65	1.55	0.29	2.55	53.1	6
6.650	21.817	5.3	4.1	3.7	8.96	2.77	0.03	3.02	65.6	3
6.750	22.145	5.7	5.0	3.6	11.15	3.65	0.02	3.01	59.2	3
6.850	22.473	7.2	5.1	4.6	15.55	2.15	0.03	2.75	44.9	6
6.950	22.801	10.5	9.3	8.2	28.97	1.59	0.03	2.61	26.7	5
7.050	23.130	8.7	4.8	5.1	18.65	1.56	0.01	2.61	35.9	6
7.150	23.458	6.0	7.7	6.5	27.73	5.17	0.01	2.01	5.9	6
7.250	23.786	5.7	5.0	4.6	14.38	3.63	0.05	2.64	28.3	6
7.350	24.114	10.0	-9999.0	9999.0	14.00	0.00	0.02	-9999.0	-9999.0	0
7.450	24.442	6.7	5.6	3.9	10.83	1.29	0.04	2.84	37.5	4
7.550	24.770	15.1	11.3	9.7	32.06	3.11	0.01	2.64	28.2	5
7.650	25.098	12.5	9.7	8.3	26.36	3.13	0.01	2.66	30.6	5
7.750	25.426	5.3	3.6	4.7	24.18	2.71	0.02	2.84	48.9	4
7.850	25.754	15.0	13.0	10.9	17.51	1.91	0.00	2.32	21.2	5
7.950	26.082	13.8	11.0	9.2	26.36	2.55	0.00	2.52	31.7	5
8.050	26.410	10.9	8.8	5.2	17.40	2.98	0.00	2.60	46.0	6
8.150	26.739	11.7	10.2	6.5	23.57	2.72	0.00	2.67	39.0	6
8.250	27.067	15.1	14.7	12.5	39.28	2.36	0.01	2.36	26.6	5
8.350	27.395	17.5	15.7	12.2	42.78	2.13	0.05	2.33	23.6	5
8.450	27.723	15.6	13.6	8.5	31.10	1.71	0.03	2.61	36.9	6
8.550	28.051	31.0	24.7	21.5	75.34	2.57	0.03	2.21	15.4	5
8.650	28.379	24.1	14.2	8.8	29.55	5.01	0.00	2.75	44.6	6
8.750	28.707	8.2	5.7	3.3	8.09	6.02	0.01	3.11	65.1	3
8.850	29.035	8.2	8.1	6.4	20.34	3.19	0.03	2.33	23.6	5
8.950	29.363	25.2	27.0	22.6	100.82	2.17	0.05	1.62	1.9	2
9.050	29.691	35.2	42.6	33.2	139.85	2.34	0.05	1.67	4.6	6
9.150	30.019	12.7	10.0	6.7	19.59	3.12	0.01	2.81	44.8	6

Run No. 05-0308-1250-5750
CPT File: 121CP05.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Qt(60) (tsf)	Col-22 Net Qt (tsf)	Col-23 Net Qt (bars)	Col-24 Qt	Col-25 Fr (%)	Col-26 Sq	Col-27 Ic	Col-28 FC (%)	Col-29 Ic Zone (Robe)
5.250	30.147	13.2	9.2	7.1	23.17	0.64	0.03	2.23	39.9	5
5.500	30.675	7.6	3.6	5.0	16.56	0.99	0.01	2.64	37.9	5
5.650	31.004	6.3	2.3	3.6	12.36	0.44	0.03	2.90	52.3	4
5.850	31.332	6.1	2.6	3.5	10.59	0.34	0.03	2.91	53.4	4
6.000	31.661	5.9	2.8	3.0	10.02	1.37	0.01	2.82	67.0	4
6.250	31.904	7.9	4.7	4.3	12.06	0.49	0.03	2.41	25.8	5
6.500	32.316	7.4	4.6	3.5	10.06	0.65	0.05	2.56	34.6	5
6.750	32.644	7.6	5.1	4.0	10.82	1.11	0.05	2.64	38.2	5
10.000	32.972	12.3	12.4	8.2	27.02	1.69	0.03	2.37	26.3	6
10.100	33.300	23.6	30.7	22.6	87.18	0.66	0.02	1.76	6.8	6
10.250	33.628	25.0	31.2	23.9	91.88	0.75	0.01	1.81	8.7	6
10.350	33.956	13.1	13.4	9.7	28.20	1.60	0.02	2.16	20.8	6
10.450	34.284	15.8	21.0	5.5	18.71	2.78	0.01	2.76	43.5	4
10.550	34.612	21.9	30.4	5.1	10.54	3.41	0.03	2.65	49.1	4
10.650	34.941	8.6	8.8	4.2	13.85	3.48	0.01	2.90	54.9	4
20.750	35.269	5.7	5.2	2.2	5.26	4.53	0.11	3.39	69.4	3
20.850	35.597	8.7	6.1	4.3	12.14	1.60	0.03	2.95	55.9	4
20.950	35.925	17.8	15.9	11.3	30.60	2.62	0.01	2.47	29.5	5
21.050	36.253	21.5	19.5	13.0	36.80	2.50	0.01	2.38	28.5	5
21.150	36.581	11.2	12.6	6.9	15.03	4.12	0.03	2.96	56.3	4
21.250	36.903	11.6	8.9	6.0	13.35	4.81	0.03	3.08	62.8	3
21.350	37.237	7.8	3.5	4.0	12.82	2.60	0.01	2.87	52.5	4
21.450	37.565	7.3	3.1	4.1	13.01	2.65	0.01	2.87	52.3	4
21.550	37.893	5.3	1.4	2.7	7.31	3.06	0.13	3.11	65.4	3
21.650	38.221	13.4	10.4	5.7	19.31	1.09	0.11	2.75	44.7	4
21.750	38.549	16.1	14.4	10.7	26.80	2.24	0.01	2.42	27.0	5
21.850	38.877	15.1	14.7	7.0	25.35	2.79	0.02	2.65	38.1	4
21.950	39.205	23.6	22.8	15.5	46.55	2.39	0.01	2.25	22.0	5
22.050	39.534	22.0	21.1	15.7	44.56	2.25	0.01	2.23	21.7	5
22.150	39.862	20.7	18.8	8.4	27.61	4.20	0.07	2.74	42.8	4
22.250	40.190	17.1	18.0	7.8	25.36	7.84	0.01	2.60	31.0	4
22.350	40.518	12.1	7.7	6.0	13.49	4.42	0.07	3.05	62.0	3
22.450	40.846	7.6	2.0	3.2	8.39	3.58	0.07	3.06	62.9	3
22.550	41.174	3.6	0.3	1.6	2.65	6.06	0.22	3.56	101.0	1
22.650	41.502	4.8	1.8	2.1	5.41	3.04	0.13	3.22	74.7	3
22.750	41.830	11.9	11.5	5.5	16.93	2.77	0.02	2.75	43.3	4
22.850	42.158	20.4	22.4	14.7	49.05	2.17	0.05	2.23	22.0	5
22.950	42.486	18.1	22.2	10.7	62.53	1.02	0.03	1.93	11.8	6
23.050	42.814	23.5	25.3	16.4	65.59	1.65	0.03	2.21	19.5	5
23.150	43.141	19.4	20.9	9.5	31.26	3.15	0.01	2.62	34.5	4
23.250	43.471	21.0	23.1	8.1	27.42	4.65	0.05	2.75	43.7	4
23.350	43.795	46.0	45.5	29.9	89.58	1.23	0.03	2.07	14.3	6
23.450	44.127	25.4	23.8	9.5	14.54	4.14	0.03	2.62	39.9	4
23.550	44.455	16.4	13.0	5.0	15.93	4.53	0.07	3.04	55.0	3
23.650	44.783	11.8	14.1	5.5	18.21	3.07	0.02	2.75	45.6	4
23.750	45.111	13.1	15.3	6.0	20.21	3.64	0.01	2.74	45.1	4
23.850	45.439	20.4	21.5	14.0	36.52	2.39	0.01	2.31	21.1	5
23.950	45.767	15.9	15.6	7.0	24.45	3.42	0.02	2.72	41.6	4
24.050	46.095	12.3	14.4	5.3	18.59	2.87	0.01	2.72	41.4	4
24.150	46.423	14.0	15.9	12.4	31.07	2.24	0.03	2.16	24.8	5
24.250	46.751	13.5	12.0	6.7	22.46	1.75	0.01	2.38	44.4	4
24.350	47.079	15.5	12.2	11.3	28.63	1.61	0.07	2.52	20.1	5
24.450	47.408	16.6	17.1	6.2	15.97	4.41	0.01	2.86	49.5	4
24.550	47.736	26.9	29.5	7.9	25.60	2.61	0.01	2.63	51.8	4
24.650	48.064	19.7	19.7	12.1	30.36	1.95	0.05	2.41	22.7	5
24.750	48.392	12.0	15.3	5.4	17.75	1.90	0.04	2.62	47.1	4
24.850	48.720	12.2	13.5	4.6	14.15	3.76	0.07	2.93	54.1	4
24.950	49.048	21.7	24.4	5.2	17.12	2.35	0.02	2.75	42.9	4
25.050	49.376	9.3	13.9	4.5	15.74	1.72	0.01	2.70	40.4	4
25.150	49.704	8.3	20.7	5.6	11.61	2.00	0.01	2.65	48.7	4

Run No. [illegible]
CPT File: [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-23 N1(60) (b/ft)	Col-23 N1(60)cs (b/ft)	Col-25 Qc1N (b/ft)	Col-26 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 SoilZone (Zone)
15.250	50.032	4.0	6.1	1.9	5.05	1.71	0.35	3.12	67.2	3
15.350	50.360	3.5	5.3	1.6	4.35	1.05	0.35	3.12	65.7	3
15.450	50.688	3.4	5.2	1.6	4.15	0.99	0.35	3.12	65.5	3
15.550	51.016	3.3	5.0	1.4	3.97	0.96	0.39	3.11	65.4	3
15.650	51.345	3.1	-9999.0	-9999.0	3.75	0.79	0.43	-9999.0	-9999.0	3
15.750	51.673	3.1	4.9	1.4	3.74	0.81	0.43	3.12	67.0	3
15.850	52.001	3.5	5.5	1.6	4.24	1.25	0.45	3.13	67.0	3
15.950	52.329	3.6	5.6	1.6	4.23	1.50	0.44	3.17	71.8	3
16.050	52.657	3.3	5.4	1.5	3.95	1.38	0.50	3.16	71.4	3
16.150	52.985	3.4	5.5	1.6	4.15	1.45	0.49	3.15	71.6	3
16.250	53.313	3.7	5.4	1.7	4.52	1.51	0.50	3.15	65.9	3
16.350	53.641	3.4	5.9	1.7	4.36	1.12	0.49	3.24	75.4	3
16.450	53.969	3.4	5.8	1.6	4.06	2.07	0.42	3.35	76.3	3
16.550	54.297	3.3	5.6	1.5	3.84	1.79	0.45	3.14	76.2	3
16.650	54.625	3.6	5.3	1.6	4.50	1.56	0.43	3.36	70.1	3
16.750	54.953	3.5	5.7	1.6	4.21	1.46	0.53	3.16	70.1	3
16.850	55.281	3.4	5.7	1.6	4.31	1.46	0.53	3.17	71.2	3
16.950	55.610	3.3	5.4	1.5	3.88	1.12	0.53	3.18	71.3	3
17.050	55.938	3.2	5.2	1.4	3.70	1.57	0.55	3.16	69.9	3
17.150	56.266	3.4	5.4	1.5	3.92	1.17	0.55	3.20	71.0	3
17.250	56.594	3.4	5.8	1.6	3.93	1.47	0.60	3.23	75.3	3
17.350	56.922	3.3	5.9	1.6	3.67	2.35	0.19	3.26	77.9	3
17.450	57.250	3.5	6.2	1.6	4.07	1.59	0.38	3.21	75.2	3
17.550	57.578	3.4	5.5	1.6	3.98	1.76	0.41	3.22	76.3	3
17.650	57.906	3.5	5.9	1.6	4.11	1.56	0.41	3.20	72.7	3
17.750	58.234	3.5	6.0	1.6	4.13	1.73	0.35	3.23	75.4	3
17.850	58.562	3.2	5.7	1.5	3.54	2.91	0.57	3.29	80.8	3
17.950	58.890	3.2	5.4	1.5	3.64	1.54	0.57	3.24	76.5	3
18.050	59.218	3.4	5.8	1.5	3.83	1.58	0.55	3.21	77.9	3
18.150	59.547	3.6	6.0	1.6	4.15	1.54	0.56	3.18	71.5	3
18.250	59.875	3.5	6.0	1.6	4.04	1.79	0.54	3.21	73.8	3
18.350	60.203	3.9	6.7	1.6	4.63	2.71	0.46	3.21	73.9	3
18.450	60.531	4.6	6.9	1.8	4.53	2.76	0.28	3.21	78.7	3
18.550	60.859	3.5	6.2	1.5	3.79	2.09	0.40	3.29	73.3	3
18.650	61.187	5.5	7.6	2.1	5.25	3.20	0.36	3.27	74.7	3
18.750	61.515	10.0	16.4	5.1	17.82	2.05	0.31	2.79	42.3	4
18.850	61.843	11.5	21.4	12.2	30.59	1.24	0.20	2.13	17.3	5
18.950	62.171	10.8	15.5	5.9	17.72	1.55	-0.01	2.69	33.7	4
19.050	62.499	5.2	7.9	2.3	6.39	1.57	0.31	3.01	53.2	3
19.150	62.827	3.5	5.1	1.4	3.77	1.09	0.24	3.32	74.7	3
19.250	63.155	4.6	7.6	2.1	5.35	2.15	0.10	3.44	45.5	3
19.350	63.483	3.9	7.0	1.9	4.91	2.54	0.15	3.25	37.0	3
19.450	63.812	3.8	5.5	1.3	2.35	2.04	0.16	3.36	57.6	3
19.550	64.140	2.6	5.2	1.1	2.55	1.64	0.27	3.39	52.4	3
19.650	64.468	3.2	5.4	1.2	2.53	2.31	0.29	3.46	45.7	3
19.750	64.796	3.7	5.9	1.4	3.12	2.31	0.15	3.17	47.1	3
19.850	65.124	3.0	5.4	1.2	2.35	2.53	0.10	3.50	49.5	3
19.950	65.452	5.5	7.3	1.8	3.62	5.06	0.10	3.42	51.9	3
20.050	65.780	11.4	15.6	4.7	15.24	2.61	0.50	2.81	41.8	4
20.150	66.108	15.3	23.2	11.1	31.59	0.68	0.01	2.04	14.1	6
20.250	66.436	15.2	27.1	15.2	42.41	0.54	0.00	1.84	5.1	6
20.350	66.764	18.5	33.1	18.5	54.72	0.73	0.00	1.85	3.3	6
20.450	67.092	21.2	37.5	21.0	59.52	0.75	0.00	1.81	3.5	6
20.550	67.420	22.9	37.3	20.9	61.71	0.40	0.00	1.62	3.0	6
20.650	67.749	20.5	30.3	22.5	65.32	0.34	0.00	1.54	3.8	6
20.750	68.077	20.9	57.5	24.6	80.49	0.56	0.00	1.52	4.9	6
20.850	68.405	20.3	35.5	15.5	56.64	0.44	0.00	1.73	5.0	6
20.950	68.733	13.7	23.0	13.8	30.91	1.51	0.00	2.22	29.6	5
21.050	69.061	12.7	19.3	5.2	15.89	3.57	-0.01	2.38	40.5	4
21.150	69.389	13.6	16.7	4.7	14.25	4.34	-0.01	2.37	55.5	3

Run No: 05 0108 1258 5750
DAT File 21C006.DAT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Di(AC) (lb/ft)	Col-22 Xi(AC) fe (lb/ft)	Col-23 Yi(AC)dr (lb/ft)	Col-24 Dz	Col-25 Pr (B)	Col-26 Dq	Col-27 Dn	Col-28 PR (%)	Col-29 Tadmpm (Done)
21.750	69.711	20.6	14.9	4.0	10.45	5.64	-0.01	3.18	71.5	1
21.350	70.045	19.4	14.1	3.9	9.50	5.35	0.01	3.22	74.9	1
21.450	70.373	25.2	16.7	4.7	13.02	6.62	-0.01	3.03	64.8	1
21.550	70.701	20.9	15.1	5.4	10.47	5.56	-0.03	2.96	56.0	1
21.650	71.029	23.2	15.8	4.6	11.85	6.25	-0.03	3.12	67.5	1
21.750	71.357	20.6	14.9	3.9	10.28	5.74	-0.02	3.15	69.6	1
21.850	71.685	12.5	11.2	2.5	9.29	5.45	-0.02	3.17	71.1	5
21.950	72.014	19.2	12.5	3.3	8.40	5.72	-0.02	3.22	74.8	5
22.050	72.342	10.8	14.1	3.8	10.71	4.49	-0.01	3.08	65.7	5
22.150	72.670	15.0	14.9	4.0	11.35	4.91	-0.01	3.06	64.0	5
22.250	72.998	10.6	11.7	3.0	7.71	5.15	-0.02	3.22	74.6	5
22.350	73.326	10.5	11.6	3.0	7.58	4.93	-0.02	3.22	74.6	5
22.450	73.654	12.1	13.0	3.4	8.57	5.28	-0.01	3.10	70.1	5
22.550	73.982	10.1	13.5	3.5	8.26	6.48	0.01	3.24	76.1	5
22.650	74.310	17.5	13.6	3.6	8.49	6.21	0.01	3.33	82.6	5
22.750	74.638	16.5	13.5	3.5	7.96	6.30	-0.01	3.14	86.0	5
22.850	74.966	16.2	13.3	3.4	7.76	6.17	-0.01	3.15	86.1	5
22.950	75.294	17.0	13.5	3.5	8.19	7.80	-0.03	3.37	82.6	5
23.050	75.622	12.0	13.0	3.4	8.73	5.23	-0.01	3.19	73.0	5
23.150	75.951	9.6	17.1	9.3	29.93	3.17	-0.01	3.17	99.2	5
23.250	76.279	10.4	16.1	4.4	15.93	1.29	-0.01	3.41	38.8	4
23.150	76.607	9.2	14.5	3.9	14.04	1.20	-0.01	3.46	38.4	4
23.450	76.935	11.7	10.1	10.3	24.43	0.72	-0.01	2.09	15.6	5
23.550	77.263	13.1	21.4	13.5	27.49	0.79	-0.01	2.10	15.8	5
23.650	77.591	15.1	26.0	14.0	33.90	1.54	-0.01	2.23	25.1	5
23.750	77.919	13.9	33.1	17.8	42.40	2.65	-0.01	2.17	26.4	5
23.850	78.247	15.5	30.8	16.5	41.10	3.05	-0.01	2.16	25.2	6
23.950	78.575	14.1	26.6	14.4	37.43	0.56	-0.01	1.88	9.9	6
24.050	78.903	14.8	29.1	15.6	39.20	0.67	-0.01	1.97	12.1	6
24.150	79.231	17.4	25.0	14.4	35.28	0.93	-0.01	2.00	23.5	6
24.250	79.559	14.5	23.9	12.8	30.20	1.00	-0.01	2.00	25.5	6
24.350	79.887	13.8	22.7	12.1	26.54	1.12	-0.01	2.26	21.1	6
24.450	80.216	8.7	14.0	5.5	10.12	3.20	-0.03	3.30	58.2	1
24.550	80.544	8.6	12.6	5.0	9.91	4.56	-0.04	3.29	71.5	1
24.650	80.872	6.0	11.1	2.6	6.09	5.46	-0.04	3.32	53.0	1
24.750	81.200	11.8	11.3	3.5	5.12	8.96	-0.05	3.31	100.0	1
24.850	81.528	10.9	10.6	2.6	4.53	8.55	-0.05	3.34	100.0	2
24.950	81.856	12.2	11.1	2.5	5.27	7.57	-0.04	3.46	95.1	2
25.050	82.184	11.5	10.7	2.4	4.96	7.21	-0.04	3.47	95.7	1
25.150	82.512	10.5	10.3	2.2	4.52	7.15	0.04	3.43	76.6	1
25.250	82.840	10.4	10.2	2.2	4.32	7.47	0.04	3.51	100.0	1
25.350	83.169	10.4	10.3	2.2	4.33	7.39	-0.04	3.44	100.0	1
25.450	83.497	12.5	10.9	2.4	5.06	5.29	-0.03	3.19	88.5	1
25.550	83.825	13.4	11.5	2.6	5.30	5.16	0.03	3.15	87.8	1
25.650	84.153	17.4	13.4	3.2	8.52	5.74	0.03	3.25	76.2	1
25.750	84.481	14.4	14.1	3.6	9.50	5.11	-0.02	3.13	69.3	1
25.850	84.809	14.0	13.8	2.9	5.23	4.24	-0.01	3.38	85.4	1
25.950	85.137	19.1	18.4	2.2	4.13	5.54	-0.01	1.55	100.0	1
26.050	85.465	18.6	18.1	2.2	4.15	7.21	0.00	1.61	100.0	1
26.150	85.793	18.6	18.1	2.2	4.15	7.25	0.00	1.61	100.0	1
26.250	86.121	9.1	18.0	2.0	3.89	7.79	0.01	1.61	100.0	1
26.350	86.449	8.1	9.1	1.6	3.20	5.26	0.01	1.68	100.0	2
26.450	86.777	8.4	9.2	1.8	3.15	7.46	0.01	1.63	100.0	2
26.550	87.105	9.8	9.8	2.0	3.89	7.80	0.01	1.64	100.0	3
26.650	87.433	13.5	11.6	2.5	5.51	4.80	0.00	3.41	95.7	3
26.750	87.761	13.7	12.4	2.7	5.84	7.82	-0.01	3.43	92.2	3
26.850	88.089	14.3	12.6	2.8	6.25	7.56	0.01	3.39	86.8	3
26.950	88.418	14.7	12.6	2.8	6.44	6.69	0.02	3.46	84.9	3
27.050	88.746	14.1	12.7	2.7	6.16	6.46	0.00	3.26	96.6	3
27.150	89.074	11.7	12.1	2.5	5.94	6.64	0.05	3.58	98.3	3

Run No: DS-DACB-1253-5TH3
CBT File: 121CP0F.CCB

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (blows/ft)	Col-22 N1(60)cs (blows/ft)	Col-23 N1(60)cs (blows/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Soil Behavior Zone
27.250	89.402	9.3	11.5	2.5	5.03	6.96	-0.01	1.10	81.4	5
27.350	89.730	11.3	16.5	2.2	6.62	6.36	-0.04	1.67	91.7	5
27.450	90.059	14.6	22.4	2.7	8.36	6.25	0.02	2.06	84.7	5
27.550	90.386	17.7	24.7	1.5	1.27	7.29	-0.02	2.31	81.6	5
27.650	90.714	19.1	25.4	1.5	8.61	6.76	0.01	2.28	77.1	5
27.750	91.043	17.4	24.5	2.5	7.87	7.82	-0.02	2.31	82.2	5
27.850	91.371	16.9	24.2	2.2	7.55	7.03	-0.01	2.32	82.4	5
27.950	91.698	15.9	23.6	2.1	7.02	7.55	-0.04	2.46	86.2	5
28.050	92.026	13.4	25.1	3.5	9.15	5.17	-0.01	2.11	70.5	5
28.150	92.355	12.9	22.6	11.6	25.55	1.03	-0.01	2.14	17.8	6
28.250	92.683	10.9	22.7	11.6	77.00	0.66	-0.01	2.01	11.3	6
28.350	93.011	10.5	22.5	11.4	25.02	0.71	-0.01	2.04	14.2	6
28.450	93.339	11.6	20.3	10.3	22.75	0.81	-0.01	1.92	14.4	5
28.550	93.667	9.5	16.7	3.0	13.49	1.62	-0.02	2.25	43.3	4
28.650	93.995	9.5	15.2	3.6	12.10	1.05	-0.01	2.07	33.3	4
28.750	94.323	9.7	14.3	4.2	11.04	1.41	-0.01	2.01	5.0	6
28.850	94.652	10.0	13.1	4.7	10.26	2.40	-0.01	2.05	5.2	6
28.950	94.979	9.6	12.6	4.9	11.45	2.40	-0.02	2.12	41.5	6
29.050	95.307	6.9	11.1	5.5	8.92	2.04	0.06	2.55	55.0	6
29.150	95.635	10.1	15.2	3.7	11.53	2.59	0.02	2.02	53.2	6
29.250	95.963	11.4	16.3	3.1	9.69	5.49	-0.03	3.16	70.2	5
29.350	96.291	20.0	15.6	3.7	8.83	7.82	-0.04	3.09	60.1	5
29.450	96.620	14.6	19.8	4.5	13.51	6.61	0.02	3.09	58.7	5
29.550	96.948	14.5	25.1	12.5	27.98	1.92	-0.01	2.20	26.6	5
29.650	97.276	19.2	23.1	10.1	24.53	0.52	-0.01	2.09	12.6	5
29.750	97.604	7.0	13.3	2.9	9.20	1.70	-0.04	2.98	51.7	6
29.850	97.932	6.6	9.8	2.5	5.56	1.61	-0.05	3.09	63.7	5
29.950	98.260	8.6	15.8	4.3	9.62	3.40	0.05	3.26	75.6	5
30.050	98.586	12.7	12.6	2.4	6.30	7.94	0.05	3.69	87.9	5
30.150	98.916	13.0	-9095.0	-9095.0	6.35	-9509.0	-0.05	-9506.6	9999.0	9
30.250	99.244	15.2	13.7	2.5	6.21	7.58	-0.04	3.10	89.9	5
30.350	99.572	15.5	15.6	3.3	7.86	7.39	-0.03	3.32	82.5	5
30.450	99.900	15.7	15.3	3.5	8.44	7.33	0.02	3.29	80.2	5
30.550	100.228	15.8	16.4	3.5	8.46	7.65	-0.02	3.29	80.4	5
30.650	100.557	15.0	20.0	6.5	13.49	4.31	0.01	2.87	56.7	5
30.750	100.885	14.7	22.1	14.5	34.90	0.33	-0.01	1.77	5.0	6
30.850	101.213	15.5	27.8	15.2	34.40	0.53	-0.01	1.78	5.0	6
30.950	101.541	12.4	26.0	12.9	33.11	0.79	0.01	2.02	13.6	6
31.050	101.869	8.5	15.6	7.3	14.60	0.24	-0.02	2.03	5.0	6
31.150	102.197	8.2	11.1	2.5	7.44	6.71	0.23	2.82	45.9	6
31.250	102.526	8.5	11.8	2.4	6.71	7.99	0.13	3.03	42.8	5
31.350	102.854	8.7	15.4	3.5	9.22	3.62	0.07	2.61	63.5	5
31.450	103.182	12.3	17.6	3.8	10.65	6.56	0.27	2.91	64.3	5
31.550	103.510	14.9	16.3	3.9	10.52	9.12	0.24	3.15	85.8	5
31.650	103.838	11.3	16.8	3.5	9.32	6.61	0.17	3.25	76.7	5
31.750	104.166	15.7	15.8	2.7	8.16	6.67	0.05	3.17	87.6	5
31.850	104.493	12.5	14.3	3.0	7.61	5.13	0.10	3.21	75.3	5
31.950	104.822	20.5	16.6	3.4	8.67	6.46	0.08	3.24	74.7	5
32.050	105.150	21.6	17.4	5.7	8.85	7.93	0.03	3.27	78.4	5
32.150	105.478	16.6	15.1	5.2	8.57	9.51	-0.03	3.41	91.0	5
32.250	105.806	11.7	11.0	2.4	5.14	7.36	-0.02	3.46	95.1	5
32.350	106.134	12.8	13.0	3.5	7.76	5.15	0.11	3.22	74.8	5
32.450	106.462	23.0	17.9	5.1	9.57	8.49	0.04	3.21	74.7	5
32.550	106.790	18.7	14.1	3.7	7.49	7.73	-0.04	3.44	84.8	5
32.650	107.118	15.6	14.3	2.5	6.90	7.86	0.01	3.42	91.8	5
32.750	107.446	14.8	14.4	2.7	6.82	9.16	0.09	3.49	97.7	5
32.850	107.774	17.5	15.1	3.0	6.83	7.02	0.16	3.36	84.1	5
32.950	108.102	19.2	13.8	2.5	5.77	7.84	0.02	3.41	90.5	5
33.050	108.430	2.9	14.2	2.5	7.04	4.82	0.13	3.24	74.2	5
33.150	108.759	7.6	13.7	2.7	6.53	4.85	0.14	3.21	73.4	5

Aux No: 05-0126-1258-5780
UTC Time: 2020-06-07T08:07:00

Col-01 Depth (ft)	Col-02 Depth (m)	Col-21 NPHI (fraction)	Col-22 RHOB Inc (g/cc)	Col-23 NPHI Inc (fraction)	Col-24 Qc	Col-25 Fr (%)	Col-26 Rq	Col-27 Ic	Col-28 FC (%)	Col-29 Inc Zone (Zone)
31.250	150.067	12.0	13.2	2.5	5.74	5.15	0.04	3.49	87.7	3
31.350	150.435	3.1	11.9	2.7	7.19	4.97	0.13	3.17	72.1	3
31.450	150.743	8.1	14.1	2.5	6.09	2.53	0.11	3.07	63.7	3
31.550	151.071	7.1	11.7	2.1	5.24	3.67	0.13	3.20	75.3	3
31.650	151.399	13.6	16.2	3.2	8.12	5.66	0.12	3.23	75.5	3
31.750	151.727	24.8	19.0	3.8	10.16	6.40	0.01	3.19	72.2	3
31.850	152.055	27.8	17.2	3.4	8.99	7.06	0.09	3.26	79.6	3
31.950	152.383	16.2	15.0	2.8	6.11	8.18	0.07	3.63	92.8	3
32.050	152.711	17.6	15.6	3.0	6.72	7.54	0.13	3.57	87.4	3
32.150	153.039	18.3	15.6	3.0	7.05	6.75	0.13	3.33	83.4	3
32.250	153.367	17.2	14.6	2.8	6.47	6.20	0.14	3.31	84.0	3
32.350	153.695	14.5	14.0	2.7	5.57	5.52	0.14	3.20	78.8	3
32.450	154.024	10.8	20.4	4.0	11.59	5.43	0.07	3.10	46.3	3
32.550	154.352	15.4	18.0	3.6	9.44	5.58	0.08	3.15	71.2	3
32.650	154.680	14.4	16.8	3.3	8.59	5.49	0.21	3.23	73.5	3
32.750	155.008	19.4	16.3	3.3	7.64	6.81	0.13	3.03	82.0	3
32.850	155.335	17.4	15.7	2.6	6.52	6.90	0.08	3.06	85.2	3
32.950	155.663	13.5	15.7	2.9	7.13	5.43	0.26	3.25	75.4	3
33.050	155.991	12.8	14.7	2.8	6.61	5.55	0.12	3.30	81.1	3
33.150	156.320	12.1	13.0	2.8	6.75	5.54	0.12	3.29	95.1	3
33.250	156.648	14.2	14.3	2.5	6.91	6.34	0.13	3.31	87.2	3
33.350	156.976	13.1	13.7	2.4	6.67	6.38	0.17	3.41	93.6	3
33.450	157.304	13.7	13.9	2.5	6.78	6.53	0.16	3.36	85.6	3
33.550	157.632	13.9	14.4	2.5	6.13	6.92	0.14	3.46	84.6	3
33.650	157.961	13.6	14.7	2.7	6.59	6.61	0.13	3.32	81.0	3
33.750	158.289	13.5	14.5	2.5	6.33	6.53	0.12	3.31	91.4	3
33.850	158.617	5.8	13.4	2.4	6.21	6.06	0.17	3.60	93.8	3
33.950	158.945	8.0	13.5	2.4	6.25	6.78	0.21	3.51	91.0	3
34.050	159.273	8.5	13.3	2.5	6.41	6.02	0.26	3.23	86.5	3
34.150	159.601	5.3	14.6	2.7	6.52	6.01	0.26	3.45	79.5	3
34.250	159.929	12.4	15.1	2.8	6.85	6.55	0.21	3.39	79.7	3
34.350	160.257	13.0	16.1	3.0	7.61	6.11	0.14	3.33	15.1	3
34.450	160.585	12.1	16.9	3.2	8.40	6.66	0.20	3.17	13.5	3
34.550	160.913	11.1	17.1	3.2	7.90	6.13	0.13	3.27	14.3	3
34.650	161.241	16.9	16.3	2.9	6.86	6.61	0.07	3.16	83.1	3
34.750	161.569	13.1	17.9	3.4	8.87	6.07	0.08	3.17	78.9	3
34.850	161.897	15.6	20.1	3.9	10.42	6.08	0.32	3.12	66.3	3
34.950	162.225	16.4	20.3	3.9	10.09	6.24	0.20	3.13	66.5	3
35.050	162.553	11.7	20.1	3.9	10.02	6.06	0.24	3.21	66.3	3
35.150	162.882	9.6	18.6	3.3	9.10	5.42	0.29	3.36	67.7	3

Interpretation Output - Release 1.22 Rev. A - Build 5 Version: NAD Imperial

Run No 05-0106-1048-9781
Job No. 05-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05 056
Location Pigeon Point
Cone: 20 TON ASTM
CPT Date 05/04/05
CPT Time: 14:11
CPT File: I:\CPT\06 20x
Northing (m): 0.010000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 15.15 (ft): 49.7
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Su Not Used 14.90 Su/P' Ind.: 0.30
Qc Method Senneset - All Sands
State Parameter M 1.20
Used Unit Weights Assigned to Soil Zones
Nkt(c) Calculated using qcln
Nkt(s) Calculated using qcInes

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Qc (MPa)	Col-11 Fric (deg)	Col-12 State Par	Col-13 Su/qc	Col-14 YoungE (tsf)	Col-15 Su (tsf)	Col-16 OCR
0.050	0.164	85.6	50.0	-9999.0	9999.0	-9999.0	3.435	10.0
0.100	0.492	67.1	50.0	-9999.0	2.035	70.3	-9999.0	-9999.0
0.150	0.820	55.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
0.200	1.148	82.9	50.0	-0.61	1.877	84.8	-9999.0	-9999.0
0.250	1.476	66.7	48.1	-0.36	2.104	83.8	3.557	10.0
0.300	1.804	-1055.0	-9999.0	-9999.0	-9999.0	-9999.0	1.152	10.0
0.350	2.133	47.9	42.5	-0.25	3.191	48.9	1.510	10.0
0.400	2.461	-3913.0	-9999.0	-9999.0	9999.0	9999.0	0.751	10.0
0.450	2.789	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.431	10.0
0.500	3.117	-9999.0	-9999.0	9999.0	9999.0	-9999.0	0.257	8.6
1.050	3.445	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.230	5.7
1.100	3.773	63.5	46.0	0.35	2.091	101.0	9999.0	9999.0
1.150	4.101	84.4	46.0	0.62	1.985	152.1	9999.0	9999.0
1.200	4.429	65.0	46.0	-0.60	2.096	117.1	3.706	10.0
1.250	4.757	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.613	10.0
1.300	5.085	48.1	42.0	0.30	2.841	82.6	1.886	10.0
1.350	5.413	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.980	10.0
1.400	5.741	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.522	10.0
1.450	6.069	-9999.0	-9999.0	-9999.0	-9199.0	-9199.0	1.201	10.0
1.500	6.398	-9999.0	-9199.0	-9199.0	-9199.0	-9199.0	0.486	7.0
2.050	6.726	-9999.0	-9199.0	-9999.0	-9599.0	-9999.0	0.504	4.4
2.100	7.054	-9999.0	-9599.0	-9999.0	-9599.0	-9999.0	0.604	10.0
2.150	7.382	-9999.0	-9599.0	-9999.0	-9599.0	-9999.0	0.715	10.0
2.200	7.710	-9999.0	-9599.0	-9999.0	9599.0	9999.0	0.665	8.0
2.450	8.038	-9999.0	9999.0	-9999.0	-9199.0	-9199.0	0.501	5.2
2.500	8.366	-9999.0	-9999.0	-9999.0	-9199.0	-9199.0	1.041	10.0
2.550	8.694	-9999.0	-9999.0	-9999.0	-9199.0	-9999.0	0.610	6.2
2.700	9.022	10.0	36.0	-0.31	-9999.0	-9999.0	0.967	10.0
2.850	9.350	30.0	36.0	-0.24	9999.0	9999.0	1.179	10.0
2.900	9.678	35.2	36.0	-0.15	3.443	95.1	-9999.0	-9999.0
3.150	10.006	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.719	6.5
3.150	10.334	63.6	48.0	-0.32	2.891	117.5	-9999.0	9999.0

Run No: 55-0106-0210-1750
CPT File: 210CP06.DAT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dx (in)	Col-31 Phi (deg)	Col-32 Score Par	Col-33 Es/qt	Col-34 YoungS (psi)	Col-35 Sr (psi)	Col-36 DCR
3.210	10.661	16.3	42.0	-0.13	2.510	134.4	-9999.0	9999.0
3.350	10.991	46.0	42.0	-0.25	2.137	109.5	-9999.0	9999.0
3.450	11.319	32.8	40.0	-0.26	3.075	132.7	1.461	20.0
3.550	11.647	65.4	42.0	-0.20	2.552	141.1	-9999.0	-9999.0
3.650	11.975	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.993	0.1
3.750	12.303	9999.0	9999.0	9999.0	9999.0	9999.0	0.623	3.6
3.850	12.631	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.470	2.4
3.950	12.959	-9999.0	-9999.0	-9994.0	9359.0	-9999.0	1.163	3.1
4.050	13.287	10.2	34.0	0.13	9999.0	-9999.0	1.525	10.0
4.150	13.615	9999.0	9999.0	9999.0	9999.0	-9999.0	0.685	2.8
4.250	13.943	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.529	3.2
4.350	14.271	43.4	38.0	-0.15	3.107	129.1	-9999.0	-9999.0
4.450	14.610	53.3	40.0	-0.20	2.662	152.6	-9999.0	-9999.0
4.550	14.928	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.026	5.5
4.650	15.256	32.1	36.0	-0.11	-9999.0	-1999.0	1.857	10.0
4.750	15.584	36.6	38.0	-0.15	3.441	321.0	1.322	10.0
4.850	15.912	53.5	40.0	-0.20	2.579	143.5	-9999.0	-9999.0
4.950	16.240	52.0	40.0	-0.23	2.742	158.7	-9999.0	9999.0
5.050	16.568	47.0	38.0	-0.21	3.001	147.5	3.213	10.0
5.150	16.896	49.0	40.0	-0.21	2.902	156.1	2.479	10.0
5.250	17.224	34.5	36.0	-0.16	3.782	125.1	2.097	10.0
5.350	17.552	43.6	38.0	-0.13	3.179	141.3	-9999.0	-9999.0
5.450	17.880	36.0	34.0	-0.10	-9999.0	-9999.0	2.430	7.4
5.550	18.208	36.0	32.0	-0.04	-9999.0	-9999.0	1.940	4.3
5.650	18.537	40.0	32.0	-0.07	-9999.0	-9999.0	1.250	5.5
5.750	18.865	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.605	2.0
5.850	19.193	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.438	1.1
5.950	19.521	36.6	36.0	-0.14	3.631	133.9	2.355	10.0
6.050	19.849	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.985	3.7
6.150	20.177	30.0	30.0	0.01	-9999.0	-9999.0	0.881	3.1
6.250	20.505	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.778	2.8
6.350	20.833	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.727	2.2
6.450	21.161	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.745	2.1
6.550	21.489	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.724	2.1
6.650	21.817	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.748	2.2
6.750	22.145	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.944	2.9
6.850	22.473	36.0	32.0	-0.08	-9999.0	-9999.0	1.337	4.8
6.950	22.802	34.0	34.0	-0.11	3.705	145.6	-9999.0	9999.0
7.050	23.130	30.0	32.0	-0.06	-9999.0	9999.0	1.650	6.4
7.150	23.458	31.2	35.0	0.07	3.764	145.5	9999.0	9999.0
7.250	23.786	33.0	32.0	0.04	9999.0	9999.0	9999.0	9999.0
7.350	24.114	41.7	35.0	0.13	3.595	117.7	-9999.0	-9999.0
7.450	24.442	32.0	32.0	-0.02	-9999.0	-9999.0	1.296	4.8
7.550	24.770	40.0	36.0	0.15	3.501	165.2	3.044	20.0
7.650	25.098	34.6	34.0	0.12	3.624	149.6	2.813	20.0
7.750	25.426	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.472	4.6
7.850	25.754	35.0	33.0	-0.14	3.736	107.0	-9999.0	-9999.0
7.950	26.082	37.6	36.0	-0.14	3.479	162.1	3.076	10.0
8.050	26.410	9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.752	5.1
8.150	26.739	32.0	34.0	-0.16	9999.0	-9999.0	2.415	9.2
8.250	27.067	40.0	38.0	-0.18	3.146	190.2	4.035	20.0
8.350	27.395	49.5	38.0	-0.19	3.037	207.6	-9999.0	-9999.0
8.450	27.723	60.5	36.0	-0.25	3.938	200.0	3.508	19.0
8.550	28.051	46.3	40.0	-0.27	2.348	289.2	-9999.0	-9999.0
8.650	28.379	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.215	15.0
8.750	28.707	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.989	2.2
8.850	29.035	30.0	34.0	0.02	9999.0	-9999.0	9999.0	-9999.0
8.950	29.363	34.5	32.0	-0.06	3.118	165.3	-9999.0	-9999.0
9.050	29.691	34.3	34.0	-0.20	1.477	404.4	-9999.0	-9999.0
9.150	30.019	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.270	5.5

Run No: 09-0308-1253-5780
GPT File 7210756.GPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dr (%)	Col-31 Phi (deg)	Col-32 Shale Par	Col-33 Es/qc	Col-34 YoungE (ksi)	Col-35 Nu (fred)	Col-36 UCA
1.210	28.249	46.0	34.0	-0.01	3.971	156.5	-9959.0	-3995.0
9.170	28.675	50.0	32.0	-0.02	-9599.0	9999.0	-9959.0	-9295.0
9.450	31.004	31.0	30.0	-0.04	-9999.0	-9999.0	1.561	1.0
9.350	31.332	32.0	32.0	-0.04	-9991.0	-9999.0	1.511	2.0
9.450	31.660	33.0	33.0	0.01	-9999.0	-9999.0	1.229	2.5
9.750	31.988	33.0	33.0	0.06	-9999.0	-9999.0	-9999.0	-9999.0
9.850	32.316	33.0	32.0	0.01	-9999.0	-9999.0	-9991.0	-9999.0
9.950	32.644	33.0	32.0	0.03	-9999.0	-9995.0	-9999.0	-9999.0
10.052	32.972	39.4	35.0	-0.10	3.663	195.2	-9991.0	-9999.0
10.152	33.300	72.4	42.5	-0.14	2.228	371.6	-9991.0	-9999.0
10.252	33.628	57.9	40.0	-0.13	2.350	341.5	-9991.0	-9999.0
10.350	33.956	41.0	35.0	0.11	3.582	205.1	-9995.0	-9999.0
10.452	34.284	30.0	32.5	-0.12	-9999.0	9999.0	2.475	6.4
10.552	34.612	-9999.0	-9999.0	-9999.0	9999.0	-9995.0	2.236	5.7
10.652	34.941	9999.0	9999.0	9999.0	9996.0	9999.0	1.729	3.5
10.752	35.269	9999.0	9999.0	-3991.0	-9999.0	-9999.0	0.715	1.2
10.850	35.597	-9999.0	-9999.0	-1999.0	-9999.0	-9995.0	1.852	3.1
10.950	35.925	43.5	35.0	-0.18	3.440	224.2	4.236	10.5
11.050	36.253	46.4	38.0	-0.18	3.336	241.3	-9995.0	9999.0
11.150	36.581	-9999.0	-9999.0	-9995.0	-9999.0	-9999.0	2.116	4.5
11.250	36.909	9999.0	9999.0	-9991.0	-9999.0	-9999.0	1.899	3.6
11.350	37.237	30.0	30.0	-0.06	-9999.0	-9999.0	1.839	3.6
11.450	37.565	30.0	30.0	-0.06	-9999.0	-9995.0	1.882	3.7
11.550	37.893	9999.0	9999.0	9993.0	-9999.0	9999.0	1.571	2.7
11.650	38.221	32.0	32.0	0.12	-9999.0	9999.0	2.612	6.6
11.750	38.549	43.2	36.0	-0.24	3.617	211.8	-9999.0	-9999.0
11.850	38.877	40.0	34.0	-0.15	-9999.0	-9999.0	3.791	10.0
11.950	39.206	55.5	38.0	-0.13	3.852	262.0	-9995.0	-9999.0
12.050	39.534	59.0	39.0	0.13	3.813	296.5	9999.0	9995.0
12.150	39.862	-9999.0	-9999.0	9999.0	9999.0	9999.0	4.223	12.0
12.250	40.190	43.6	36.0	-0.17	-9995.0	-9999.0	4.362	12.0
12.350	40.518	-9999.0	-9999.0	9999.0	-9996.0	-9999.0	1.789	3.0
12.450	40.846	-9999.0	-9999.0	9999.0	1093.0	9999.0	1.415	2.2
12.550	41.174	-9999.0	-9999.0	9999.0	1091.0	9999.0	0.420	0.7
12.650	41.502	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.857	1.2
12.750	41.830	33.1	32.0	-0.11	5903.0	9999.0	3.043	4.5
12.850	42.158	50.0	38.0	-0.11	3.876	267.5	-9999.0	9999.0
12.950	42.486	65.5	40.0	-0.14	3.685	307.5	-9999.0	9999.0
13.050	42.814	59.0	39.0	-0.13	3.996	316.0	-9999.0	-9999.0
13.150	43.143	47.1	36.0	-0.20	4.135	317.2	5.164	10.0
13.250	43.471	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	4.497	10.0
13.350	43.799	77.1	42.0	-0.27	2.194	502.5	-9999.0	-9999.0
13.450	44.127	-9999.0	-9999.0	9999.0	-9999.0	9999.0	5.701	17.0
13.550	44.455	-9999.0	-9999.0	9999.0	9999.0	-9999.0	2.573	4.6
13.650	44.783	33.0	32.0	0.12	-9999.0	-9999.0	3.142	8.1
13.750	45.111	35.9	34.0	-0.15	-9997.0	-9999.0	3.513	7.2
13.850	45.439	53.9	38.0	-0.18	3.616	333.2	-9999.0	-9999.0
13.950	45.767	61.6	24.0	-0.13	-9991.0	-9999.0	4.302	9.9
14.049	46.095	44.0	32.0	-0.12	-9995.0	-9999.0	3.963	8.3
14.149	46.423	46.2	36.0	-0.15	3.335	286.9	-9999.0	-9999.0
14.249	46.751	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	4.045	9.5
14.350	47.079	45.9	36.0	-0.22	3.417	278.1	-9999.0	9999.0
14.450	47.408	-9999.0	-9999.0	-9999.0	-9998.0	-9999.0	1.642	3.1
14.550	47.736	43.2	34.0	-0.14	-9991.0	-9999.0	4.702	10.0
14.650	48.064	43.3	36.0	-0.12	3.365	293.1	-9999.0	-9999.0
14.750	48.392	41.4	32.0	-0.12	-9995.0	-9999.0	3.009	5.3
14.850	48.720	-9999.0	-9995.0	-9999.0	9995.0	9999.0	2.657	4.2
14.950	49.048	32.6	32.0	0.09	5901.0	-9999.0	3.235	8.6
15.050	49.376	30.5	32.0	-0.04	-9991.0	-9999.0	-9999.0	-9999.0
15.150	49.704	30.0	30.0	-0.01	-9995.0	-9999.0	2.222	1.1

Run No 06-0615-1058-5780
CPT File: 7210716.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Qt (%)	Col-11 Phi (deg)	Col-12 State Par	Col-13 Es/qc	Col-14 YoungE (tsf)	Col-15 Su (tsf)	Col-16 OCR
15.250	50.032	10.0	10.0	0.08	-9999.0	-9999.0	0.935	1.1
15.300	50.196	10.0	10.0	0.13	-9999.0	-9999.0	0.826	1.0
15.450	50.689	10.0	10.0	0.14	-9999.0	-9999.0	0.808	0.9
15.500	51.056	10.0	10.0	0.12	-9999.0	-9999.0	0.749	0.9
15.650	51.345	10.0	10.0	0.13	-9999.0	-9999.0	0.731	0.9
15.700	51.673	10.0	10.0	0.12	-9999.0	-9999.0	0.725	0.9
15.850	52.001	10.0	10.0	0.12	-9999.0	-9999.0	0.825	1.0
15.900	52.329	10.0	10.0	0.13	-9999.0	-9999.0	0.823	1.0
16.050	52.657	10.0	10.0	0.13	-9999.0	-9999.0	0.775	0.9
16.100	52.985	10.0	10.0	0.13	-9999.0	-9999.0	0.847	1.0
16.250	53.313	10.0	10.0	0.13	-9999.0	-9999.0	0.893	1.0
16.300	53.641	10.0	10.0	0.13	-9999.0	-9999.0	0.824	1.0
16.450	53.969	10.0	10.0	0.14	-9999.0	-9999.0	0.807	1.0
16.500	54.297	10.0	10.0	0.12	-9999.0	-9999.0	0.765	0.9
16.650	54.625	10.0	10.0	0.14	-9999.0	-9999.0	0.825	1.0
16.700	54.953	10.0	10.0	0.13	-9999.0	-9999.0	0.768	0.9
16.850	55.281	10.0	10.0	0.13	-9999.0	-9999.0	0.821	1.0
16.900	55.610	10.0	10.0	0.12	-9999.0	-9999.0	0.743	0.9
17.050	55.938	10.0	10.0	0.12	-9999.0	-9999.0	0.749	0.9
17.100	56.266	10.0	10.0	0.11	-9999.0	-9999.0	0.707	0.9
17.250	56.594	10.0	10.0	0.10	-9999.0	-9999.0	0.810	0.9
17.300	56.922	10.0	10.0	0.10	-9999.0	-9999.0	0.778	0.9
17.450	57.250	10.0	10.0	0.10	-9999.0	-9999.0	0.814	0.9
17.500	57.578	10.0	10.0	0.10	-9999.0	-9999.0	0.817	0.9
17.650	57.906	10.0	10.0	0.10	-9999.0	-9999.0	0.845	0.9
17.700	58.234	10.0	10.0	0.10	-9999.0	-9999.0	0.851	0.9
17.849	58.563	10.0	10.0	0.10	-9999.0	-9999.0	0.731	0.8
17.900	58.891	10.0	10.0	0.10	-9999.0	-9999.0	0.754	0.8
18.050	59.219	10.0	10.0	0.10	-9999.0	-9999.0	0.806	0.9
18.100	59.547	10.0	10.0	0.10	-9999.0	-9999.0	0.840	0.9
18.250	59.875	10.0	10.0	0.10	-9999.0	-9999.0	0.864	0.9
18.300	60.203	10.0	10.0	0.11	-9999.0	-9999.0	0.969	1.0
18.450	60.531	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.957	1.0
18.500	60.859	10.0	10.0	0.14	-9999.0	-9999.0	0.799	0.9
18.650	61.187	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.114	1.2
18.700	61.515	35.5	32.0	-0.08	-9999.0	-9999.0	-9999.0	-9999.0
18.850	61.843	55.3	36.0	-0.07	1.029	316.2	-9999.0	-9999.0
18.900	62.171	35.6	32.0	-0.08	-9999.0	-9999.0	-9999.0	-9999.0
19.050	62.499	10.0	10.0	0.09	-9999.0	-9999.0	1.356	1.4
19.100	62.827	10.0	10.0	0.12	-9999.0	-9999.0	0.851	0.9
19.250	63.155	10.0	10.0	0.06	-9999.0	-9999.0	1.152	1.2
19.300	63.483	10.1	10.0	0.03	-9999.0	-9999.0	0.972	1.0
19.450	63.812	20.1	10.0	0.14	-9999.0	-9999.0	0.823	0.9
19.500	64.140	20.1	10.0	0.17	-9999.0	9999.0	0.856	0.9
19.650	64.468	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.860	0.9
19.700	64.796	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.879	0.9
19.849	65.124	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.916	0.9
19.900	65.452	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.732	0.8
20.050	65.780	31.9	30.0	-0.09	-9999.0	9999.0	1.346	1.3
20.100	66.108	53.5	35.0	-0.07	1.185	355.2	-9999.0	-9999.0
20.250	66.436	60.0	36.0	-0.06	2.882	414.9	-9999.0	-9999.0
20.350	66.764	66.6	38.0	-0.10	2.679	470.5	-9999.0	-9999.0
20.451	67.092	63.6	40.0	-0.11	2.555	515.4	-9999.0	-9999.0
20.550	67.420	70.6	40.0	-0.08	2.524	530.2	-9999.0	9999.0
20.650	67.749	74.8	40.0	-0.06	2.419	572.0	-9999.0	-9999.0
20.750	68.077	78.1	42.0	-0.12	2.271	624.5	9999.0	9999.0
20.850	68.405	86.4	40.0	-0.07	2.602	606.3	9999.0	-9999.0
20.950	68.733	50.7	36.0	-0.13	3.169	551.6	-9999.0	-9999.0
21.050	69.061	35.1	32.0	-0.11	-9999.0	-9999.0	3.918	3.5
21.150	69.389	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.231	4.2

Run No. 05-0906-1259-5760
CPT File 7210906.COR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-03 Dr (%)	Col-04 Phi (deg)	Col-05 State Par	Col-06 Zs/qc	Col-07 YoungS (ksf)	Col-08 Su (tsf)	Col-09 OCR
21.050	69.127	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.382	2.7
21.100	69.245	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.232	2.6
21.150	69.409	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.170	2.5
21.200	69.573	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.159	2.5
21.250	69.737	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.136	2.5
21.300	69.901	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.164	2.5
21.350	70.065	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.147	2.5
21.400	70.229	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.141	2.5
21.450	70.394	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.136	2.5
21.500	70.558	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.550	70.722	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.600	70.886	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.650	71.050	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.700	71.214	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.750	71.378	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.800	71.542	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.850	71.706	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.900	71.870	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
21.950	72.034	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.000	72.198	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.050	72.362	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.100	72.526	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.150	72.690	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.200	72.854	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.250	73.018	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.300	73.182	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.350	73.346	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.400	73.510	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.450	73.674	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.500	73.838	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.550	74.002	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.600	74.166	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.650	74.330	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.700	74.494	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.750	74.658	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.800	74.822	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.850	74.986	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.900	75.150	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
22.950	75.314	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
23.000	75.478	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
23.050	75.642	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
23.100	75.806	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.134	2.5
23.150	75.970	48.3	34.0	-0.04	4.227	104.5	-9999.0	-9999.0
23.200	76.134	46.4	33.9	-0.04	-9999.0	-9999.0	-9999.0	-9999.0
23.250	76.299	45.1	33.9	-0.03	-9999.0	-9999.0	-9999.0	-9999.0
23.300	76.463	44.0	34.0	-0.03	3.876	139.1	-9999.0	-9999.0
23.350	76.627	43.1	34.0	-0.03	3.683	140.5	-9999.0	-9999.0
23.400	76.791	42.4	34.0	-0.03	3.255	143.7	-9999.0	-9999.0
23.450	76.955	41.8	34.0	-0.03	2.899	147.8	-9999.0	-9999.0
23.500	77.119	41.4	34.0	-0.03	2.921	151.4	-9999.0	-9999.0
23.550	77.283	41.1	34.0	-0.03	3.058	153.1	-9999.0	-9999.0
23.600	77.447	40.9	34.0	-0.03	2.982	155.6	-9999.0	-9999.0
23.650	77.611	40.7	34.0	-0.03	3.115	156.9	-9999.0	-9999.0
23.700	77.775	40.6	34.0	-0.03	3.037	158.0	-9999.0	-9999.0
23.750	77.939	40.5	34.0	-0.03	3.038	158.8	-9999.0	-9999.0
23.800	78.103	40.4	34.0	-0.03	3.038	159.4	-9999.0	-9999.0
23.850	78.267	40.3	34.0	-0.03	3.038	159.9	-9999.0	-9999.0
23.900	78.431	40.2	34.0	-0.03	3.038	160.3	-9999.0	-9999.0
23.950	78.595	40.2	34.0	-0.03	3.038	160.6	-9999.0	-9999.0
24.000	78.759	40.1	34.0	-0.03	3.038	160.9	-9999.0	-9999.0
24.050	78.923	40.1	34.0	-0.03	3.038	161.1	-9999.0	-9999.0
24.100	79.087	40.1	34.0	-0.03	3.038	161.3	-9999.0	-9999.0
24.150	79.251	40.0	34.0	-0.03	3.038	161.5	-9999.0	-9999.0
24.200	79.415	40.0	34.0	-0.03	3.038	161.6	-9999.0	-9999.0
24.250	79.579	40.0	34.0	-0.03	3.038	161.8	-9999.0	-9999.0
24.300	79.743	40.0	34.0	-0.03	3.038	161.9	-9999.0	-9999.0
24.350	79.907	40.0	34.0	-0.03	3.038	162.0	-9999.0	-9999.0
24.400	80.071	40.0	34.0	-0.03	3.038	162.1	-9999.0	-9999.0
24.450	80.236	40.0	34.0	-0.03	3.038	162.2	-9999.0	-9999.0
24.500	80.400	40.0	34.0	-0.03	3.038	162.3	-9999.0	-9999.0
24.550	80.564	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.686	1.7
24.600	80.728	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.858	1.9
24.650	80.892	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.806	1.8
24.700	81.056	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
24.750	81.220	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
24.800	81.384	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
24.850	81.548	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
24.900	81.712	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
24.950	81.876	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
25.000	82.040	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
25.050	82.204	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
25.100	82.368	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
25.150	82.532	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.826	1.8
25.200	82.696	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.367	1.2
25.250	82.860	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.612	1.3
25.300	83.024	-9999.0	-9999.0	9999.0	9999.0	9999.0	2.026	1.9
25.350	83.189	-9999.0	-9999.0	9999.0	9999.0	9999.0	2.605	2.4
25.400	83.353	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.675	1.5
25.450	83.517	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.044	0.9
25.500	83.681	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.211	1.1
25.550	83.845	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.331	1.2
25.600	84.009	-9999.0	-9999.0	9999.0	9999.0	9999.0	0.995	0.9
25.650	84.173	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.769	1.6
25.700	84.337	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.813	1.6
25.750	84.501	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.603	1.5
25.800	84.665	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.415	1.3
25.850	84.829	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.535	1.4
25.900	84.993	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.630	1.4
25.950	85.157	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.675	1.5
26.000	85.321	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.696	1.6
26.050	85.485	-9999.0	-9999.0	9999.0	9999.0	9999.0	1.550	1.4

Run No 19-2103-1358-5740
CET File: 721CP05.CCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dr (1)	Col-31 Dai (deg)	Col-32 Stere Par	Col-33 Es/qt	Col-34 Young (ksi)	Col-35 Sq (psi)	Col-36 CCR
27.350	89.402	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.670	1.3
27.400	89.748	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.167	1.0
27.450	90.094	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.464	1.4
27.500	90.440	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.096	1.0
27.550	90.786	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.177	2.1
27.600	91.132	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.064	1.8
27.650	91.478	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.795	1.8
27.700	91.824	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.856	1.6
27.750	92.170	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.471	2.2
28.150	92.355	48.8	34.0	-0.16	3.594	386.0	-9999.0	-9999.0
28.200	92.580	50.4	36.0	-0.15	3.503	397.8	-9999.0	-9999.0
28.350	93.011	49.4	34.0	0.04	3.564	391.6	-9999.0	-9999.0
28.400	93.339	46.8	36.0	-0.03	3.790	367.2	-9999.0	9999.0
28.550	93.667	51.9	32.0	-0.04	-9999.0	-9999.0	-9999.0	-9999.0
28.650	93.996	51.4	30.0	0.03	-9999.0	-9999.0	-9999.0	9999.0
28.700	94.324	47.8	34.0	0.01	3.924	371.7	-9999.0	-9999.0
28.850	94.652	42.5	32.0	0.02	4.278	341.2	-9999.0	-9999.0
28.950	94.979	32.0	32.0	-0.01	-9999.0	-9999.0	-9999.0	-9999.0
29.050	95.307	30.0	30.0	0.00	-9999.0	-9999.0	-9999.0	-9999.0
29.150	95.635	30.0	30.0	-0.06	-9999.0	-9999.0	1.161	1.1
29.250	95.963	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.667	2.4
29.350	96.291	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.414	2.1
29.450	96.620	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.703	3.9
29.550	96.948	51.8	34.0	-0.07	3.453	417.6	-9999.0	-9999.0
29.600	97.276	42.0	34.0	-0.01	3.677	339.1	-9999.0	-9999.0
29.750	97.604	30.0	30.0	0.00	-9999.0	-9999.0	-9999.0	-9999.0
29.850	97.932	30.0	30.0	0.05	-9999.0	-9999.0	-9999.0	-9999.0
29.950	98.260	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.504	1.2
30.050	98.588	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.387	1.1
30.150	98.916	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.417	1.1
30.250	99.244	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.717	1.4
30.350	99.572	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.147	1.8
30.450	99.900	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.562	2.1
30.550	100.228	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.331	2.0
30.650	100.557	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.772	1.5
30.750	100.885	55.2	38.0	0.00	3.143	442.7	-9999.0	-9999.0
30.800	101.213	57.3	36.0	0.00	3.154	479.6	-9999.0	-9999.0
30.950	101.541	53.1	34.0	-0.05	3.355	439.5	-9999.0	-9999.0
31.050	101.869	46.1	32.0	0.09	4.471	379.1	-9999.0	-9999.0
31.150	102.197	30.0	30.0	0.10	9999.0	9999.0	9999.0	9999.0
31.250	102.525	30.0	30.0	0.07	9999.0	-9999.0	1.085	1.4
31.300	102.853	30.0	30.0	-0.01	-9999.0	-9999.0	2.632	2.1
31.450	103.181	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.811	2.7
31.550	103.509	9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.129	2.9
31.650	103.837	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.522	2.3
31.750	104.165	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.4
31.850	104.493	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.206	1.8
31.950	104.822	-9999.0	-9999.0	-9999.0	9999.0	9999.0	2.503	2.2
32.050	105.150	-9999.0	-9999.0	9901.0	-9999.0	-9999.0	2.503	2.2
32.100	105.478	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.904	1.5
32.250	105.806	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.474	1.1
32.350	106.134	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.254	1.8
32.450	106.462	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.785	2.4
32.500	106.791	-9999.0	-9999.0	9909.0	-9999.0	-9999.0	2.108	2.1
32.650	107.119	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.751	2.1
32.750	107.447	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.443	1.7
32.850	107.775	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.917	1.6
32.950	108.103	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.597	1.3
33.050	108.430	-9999.0	-9999.0	9999.0	9999.0	-9999.0	2.675	1.6
33.150	108.759	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.928	1.6

Run No 05-0908-1258-5186
CPT File: 7210205.COR

Col 01 Depth m	Col 02 Depth (ft)	Col 10 Qt (MPa)	Col 11 Fhs (deg)	Col 12 Soil Behavior	Col 13 Ic/Qc	Col 14 Young's (MPa)	Col 15 Ge (MPa)	Col 16 OCR
33.250	109.088	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.668	1.5
33.300	109.252	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.104	1.6
33.350	109.416	10.0	10.0	0.00	-9999.0	-9999.0	2.604	1.9
33.400	109.580	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.568	1.2
33.450	109.744	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.421	1.9
33.500	109.908	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.924	2.6
33.550	110.072	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.475	2.8
33.600	110.236	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.857	1.4
33.650	110.400	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.913	1.5
33.700	110.564	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.127	1.6
33.750	110.728	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.957	1.5
33.800	110.892	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.587	2.1
33.850	111.056	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.457	3.1
33.900	111.220	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.661	2.3
33.950	111.384	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.582	2.0
34.000	111.548	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.267	1.7
34.050	111.712	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.985	1.5
34.100	111.876	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.155	1.6
34.150	112.040	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.022	1.5
34.200	112.204	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.079	1.5
34.250	112.368	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.814	1.3
34.300	112.532	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.830	1.3
34.350	112.696	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
34.400	112.860	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
34.450	113.024	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
34.500	113.188	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
34.550	113.352	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
34.600	113.516	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
34.650	113.681	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
34.700	113.845	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
34.750	114.009	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
34.800	114.173	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
34.850	114.337	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
34.900	114.501	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
34.950	114.665	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
35.000	114.829	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
35.050	114.993	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
35.100	115.157	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
35.150	115.321	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
35.200	115.485	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
35.250	115.649	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
35.300	115.813	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
35.350	115.977	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
35.400	116.141	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
35.450	116.305	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
35.500	116.469	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
35.550	116.633	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
35.600	116.797	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
35.650	116.961	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
35.700	117.125	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
35.750	117.289	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
35.800	117.453	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
35.850	117.617	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
35.900	117.781	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
35.950	117.945	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
36.000	118.109	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
36.050	118.273	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
36.100	118.437	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
36.150	118.601	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
36.200	118.765	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
36.250	118.929	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
36.300	119.093	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
36.350	119.257	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
36.400	119.421	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
36.450	119.585	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
36.500	119.749	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
36.550	119.913	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
36.600	120.077	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
36.650	120.241	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
36.700	120.405	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
36.750	120.569	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
36.800	120.733	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
36.850	120.897	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
36.900	121.061	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.890	1.4
36.950	121.226	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.056	1.5
37.000	121.390	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.961	1.4
37.050	121.554	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.816	1.3
37.100	121.718	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.779	1.3
37.150	121.882	30.0	30.0	0.00	-9999.0	-9999.0	2.056	1.5

Interpretation Output - Release 1.22 Rev A - Build 5 Format: MLP (Operia)
Run No: GI 0108-1255 5673 -
Job No: 01-923
Client: Geosystems Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site CPT-01-02T
Location Pigeon Point
Cone 20 TON ADDOT
CPT Date 01/04/01
CPT Time 13:46
CPT File 7215P07.COR
Northing (N): 0.001000
Easting (E): 0.001000
Elevation (E): 0.001000

Water Table (w): 8.00 (ft) 26.2
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (Ai): 0.10
Cn Use Used: 15.00 Cn/2' (tsf) 0.50
Cr Method : Jamiolkowski - All Sands
Grain Parameter M. 1.00
Hard Unit Weights Assigned to Soil Zones
N1(60) Calculated Using qc1n
N1(60)cs Calculated Using qc1ncs

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-03 Elev. (ft)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (zone)	Col-11 SBTn (zone)
0.050	0.164	-0.050	-0.164	6.42	6.42	0.01	0.16	0.00	2	2
0.100	0.328	-0.100	-0.328	9.61	9.61	0.01	0.11	-0.26	2	2
0.150	0.820	-0.250	-0.820	11.65	11.65	0.01	0.09	-2.50	2	-9999.0
0.200	1.148	-0.350	-1.148	10.65	10.65	0.05	1.42	-2.56	6	6
0.250	1.476	-0.450	-1.476	13.07	13.05	0.25	1.88	7.77	5	5
0.300	1.804	-0.550	-1.804	19.00	18.88	0.31	1.64	3.62	6	5
0.350	2.132	-0.650	-2.132	17.62	17.60	0.35	1.97	-4.50	6	5
0.400	2.461	-0.750	-2.461	15.21	15.21	0.43	2.82	-12.98	5	5
0.450	2.789	-0.850	-2.789	9.76	9.69	0.31	3.21	-20.79	4	4
0.500	3.117	-0.950	-3.117	22.61	22.49	0.27	1.20	-5.51	6	5
0.550	3.445	-1.050	-3.445	41.82	41.34	0.47	1.14	1.49	7	5
0.600	3.773	-1.150	-3.773	22.81	22.82	0.40	1.76	8.00	6	5
0.650	4.101	-1.250	-4.101	17.84	17.84	0.35	2.03	2.16	5	5
0.700	4.429	-1.350	-4.429	32.01	32.03	0.46	1.41	5.33	7	6
0.750	4.757	-1.450	-4.757	39.32	39.32	0.56	1.40	0.61	7	6
0.800	5.085	-1.550	-5.085	12.96	12.95	0.59	4.57	4.90	4	4
0.850	5.413	-1.650	-5.413	10.68	10.65	0.28	2.63	6.58	4	4
0.900	5.741	-1.750	-5.741	6.68	6.69	0.12	1.80	2.75	4	4
0.950	6.069	-1.850	-6.069	26.86	26.81	0.49	1.84	0.56	7	5
1.000	6.398	-1.950	-6.398	33.96	33.96	0.77	2.27	-0.91	8	5
1.050	6.726	-2.050	-6.726	21.23	21.23	0.45	2.13	5.24	7	5
1.100	7.054	-2.150	-7.054	13.48	13.43	0.43	3.20	2.59	7	6
1.150	7.382	-2.250	-7.382	15.93	15.58	0.32	2.07	15.26	8	6
1.200	7.710	-2.350	-7.710	42.45	42.45	0.79	1.85	1.29	7	5
1.250	8.038	-2.450	-8.038	35.62	35.62	0.77	2.17	-0.03	8	5
1.300	8.366	-2.550	-8.366	60.09	60.09	0.77	1.31	-2.19	8	5
1.350	8.694	-2.650	-8.694	44.40	44.40	0.87	2.58	-0.53	8	5
1.400	9.022	-2.750	-9.022	19.11	19.11	0.76	3.87	0.95	6	6
1.450	9.350	-2.850	-9.350	29.11	29.11	0.60	2.01	1.04	6	5
1.500	9.678	-2.950	-9.678	78.64	78.64	1.20	1.52	0.02	7	5
1.550	10.006	-3.050	-10.006	41.07	41.06	1.38	3.35	3.12	6	5
1.600	10.335	-3.150	-10.335	56.28	56.26	1.04	1.85	0.53	7	5

Run No 05-0108-1256-5873
CPT File 7210707.COR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
3.250	10.663	-1.250	-10.663	12.93	12.93	0.17	2.81	0.18	5	4
3.300	10.827	-1.300	-10.791	18.05	18.05	0.15	1.61	0.71	5	5
3.450	11.319	-1.450	-11.119	24.40	24.40	0.57	2.34	-0.61	5	4
3.500	11.447	-1.500	-11.447	10.55	10.94	0.11	2.74	1.22	4	4
3.650	11.975	-1.650	-11.975	20.12	20.13	0.12	0.61	1.61	7	5
3.700	12.105	-1.700	-12.103	3.45	3.46	0.14	1.68	0.91	5	4
3.950	12.631	-1.950	-12.631	23.29	23.30	0.48	2.07	1.96	6	4
3.950	12.959	-1.950	-12.959	27.60	27.60	0.69	3.71	0.61	4	4
4.050	13.287	-2.050	-13.287	69.67	69.67	0.76	1.93	-0.09	7	5
4.150	13.615	-2.150	-13.616	52.62	52.63	1.15	2.20	2.29	5	5
4.250	13.943	-2.250	-13.943	18.24	18.25	0.37	2.11	2.79	5	5
4.350	14.271	-2.350	-14.271	29.61	29.62	0.45	1.52	0.52	5	5
4.450	14.600	-2.450	-14.600	44.65	44.66	0.69	1.54	2.31	7	5
4.550	14.928	-2.550	-14.928	51.52	51.52	0.56	1.08	0.19	7	5
4.650	15.256	-2.650	-15.256	56.92	56.93	0.94	1.68	3.51	7	5
4.750	15.584	-2.750	-15.584	31.40	31.41	0.75	2.39	2.36	5	4
4.850	15.912	-2.850	-15.912	21.40	21.42	0.57	2.64	3.26	5	4
4.950	16.240	-2.950	-16.240	10.19	10.20	0.16	1.54	2.31	4	3
5.050	16.568	-3.050	-16.568	28.40	28.42	0.40	1.39	6.64	6	5
5.150	16.896	-3.150	-16.896	17.01	17.02	0.48	1.16	0.68	7	5
5.250	17.224	-3.250	-17.224	29.57	29.59	0.39	1.32	5.25	7	5
5.350	17.552	-3.350	-17.552	18.91	18.91	0.25	1.32	3.24	6	4
5.450	17.881	-3.450	-17.880	13.86	13.93	0.20	1.44	13.75	5	4
5.550	18.209	-3.550	-18.209	10.77	10.84	0.13	1.21	10.77	5	4
5.650	18.537	-3.650	-18.537	10.25	10.24	0.16	1.52	15.25	5	4
5.750	18.865	-3.750	-18.865	9.13	9.43	0.13	1.36	21.16	5	3
5.850	19.193	-3.850	-19.193	13.45	13.52	0.17	1.22	15.46	6	4
5.950	19.521	-3.950	-19.521	22.24	22.25	0.51	2.25	5.31	4	3
6.050	19.849	-4.050	-19.849	7.70	7.92	0.43	5.50	5.15	3	3
6.150	20.177	-4.150	-20.177	9.29	9.29	0.62	6.58	5.93	3	3
6.250	20.505	-4.250	-20.505	26.25	26.25	0.61	2.61	4.50	6	4
6.350	20.833	-4.350	-20.833	33.41	33.41	0.88	2.62	3.05	6	4
6.450	21.161	-4.450	-21.161	31.78	32.83	1.02	3.20	9.92	5	4
6.550	21.489	-4.550	-21.489	28.85	28.88	0.60	2.10	7.01	5	3
6.650	21.817	-4.650	-21.817	31.76	32.84	0.64	1.97	12.05	7	5
6.750	22.145	-4.750	-22.145	32.80	32.83	0.55	1.68	7.10	6	4
6.850	22.473	-4.850	-22.473	16.80	16.84	0.51	3.12	8.60	5	3
6.950	22.802	-4.950	-22.802	16.82	16.87	0.51	3.19	9.37	7	5
7.050	23.130	-5.050	-23.130	41.41	41.54	0.57	0.54	8.64	7	5
7.150	23.458	-5.150	-23.458	28.74	35.78	0.85	2.20	8.45	6	4
7.250	23.786	-5.250	-23.786	36.41	38.45	1.10	3.01	9.20	6	4
7.350	24.114	-5.350	-24.114	99.24	99.26	1.25	1.30	8.43	7	5
7.450	24.442	-5.450	-24.442	68.86	68.87	1.05	1.54	1.68	7	5
7.550	24.770	-5.550	-24.770	34.05	34.10	1.42	2.95	10.53	5	3
7.650	25.098	-5.650	-25.098	25.10	26.15	1.09	4.19	10.53	3	3
7.750	25.426	-5.750	-25.426	34.09	34.12	1.61	4.62	9.58	6	3
7.850	25.754	-5.850	-25.754	35.97	36.53	0.99	2.74	13.14	5	4
7.950	26.082	-5.950	-26.082	60.65	60.90	1.21	2.07	10.68	7	5
8.050	26.410	-6.050	-26.410	47.04	47.70	1.07	2.92	11.13	5	4
8.150	26.738	-6.150	-26.739	30.18	30.22	1.01	3.18	7.59	5	4
8.250	27.067	-6.250	-27.067	20.86	20.91	0.52	2.47	11.27	5	3
8.350	27.395	-6.350	-27.395	15.24	15.30	0.26	1.61	11.57	6	4
8.450	27.723	-6.450	-27.723	16.26	16.23	0.25	0.66	12.05	7	5
8.550	28.051	-6.550	-28.051	23.43	23.53	0.64	2.08	14.11	6	4
8.650	28.379	-6.650	-28.379	121.47	121.54	2.77	1.26	11.71	7	5
8.750	28.709	-6.750	-28.707	33.16	33.23	1.92	5.79	14.45	3	3
8.850	29.035	-6.850	-29.035	39.35	39.36	0.96	2.46	7.37	6	4
8.950	29.363	-6.950	-29.363	61.58	61.61	1.67	2.72	11.62	6	4
9.050	29.691	-7.050	-29.691	31.82	31.88	1.50	4.69	13.05	6	3
9.150	30.019	-7.150	-30.019	14.89	14.93	0.70	4.69	14.93	3	3

Run No: CS 5302 1256-6075
CPT File: T21C507.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
9.750	32.007	-9.250	-30.347	59.54	61.00	1.16	2.13	72.82	6	6
9.350	30.675	-9.350	-30.675	36.25	36.31	1.07	2.94	37.56	6	6
9.450	31.004	-9.450	-31.004	14.02	14.13	0.40	2.82	21.76	5	5
9.550	31.332	-9.550	-31.332	10.04	10.06	0.27	1.35	26.56	6	6
9.650	31.660	-9.650	-31.660	26.61	26.72	0.56	2.01	31.71	6	6
9.750	31.988	-9.750	-31.988	23.04	23.02	0.57	2.37	33.61	6	6
9.850	32.316	-9.850	-32.316	20.14	20.52	0.39	1.88	36.96	6	6
9.950	32.644	-9.950	-32.644	17.67	17.14	0.36	1.45	36.99	6	6
10.050	32.972	-10.050	-32.972	15.73	15.89	0.32	1.19	37.32	6	6
10.150	33.300	-10.150	-33.300	17.12	17.30	0.26	1.47	38.27	6	6
10.250	33.628	-10.250	-33.628	32.90	33.06	1.00	3.02	35.03	5	6
10.350	33.956	-10.350	-33.956	35.37	36.25	1.70	4.92	35.75	5	5
10.450	34.284	-10.450	-34.284	45.07	45.25	1.56	4.11	46.10	5	5
10.550	34.612	-10.550	-34.612	59.32	59.52	1.85	4.56	62.75	6	5
10.650	34.941	-10.650	-34.941	42.13	42.27	1.78	4.23	39.49	5	5
10.750	35.269	-10.750	-35.269	35.07	35.12	1.11	3.15	33.08	5	6
10.850	35.597	-10.850	-35.597	35.42	35.48	1.31	3.70	32.93	5	5
10.950	35.925	-10.950	-35.925	59.06	59.12	1.93	3.27	33.96	6	6
11.050	36.253	-11.050	-36.253	24.30	24.48	1.43	6.90	15.42	3	4
11.150	36.581	-11.150	-36.581	26.26	26.22	1.02	3.38	12.55	6	4
11.250	36.909	-11.250	-36.909	29.25	29.29	0.77	2.62	14.35	6	6
11.350	37.237	-11.350	-37.237	28.54	28.61	0.81	2.84	14.14	6	6
11.450	37.565	-11.450	-37.565	41.36	41.43	0.81	1.96	14.48	6	6
11.550	37.893	-11.550	-37.893	42.67	42.76	0.80	1.88	15.22	6	6
11.650	38.221	-11.650	-38.221	32.74	32.84	0.95	2.92	20.81	6	6
11.750	38.549	-11.750	-38.549	26.09	26.31	1.09	4.17	21.42	6	5
11.850	38.877	-11.850	-38.877	33.46	33.65	1.08	3.22	1.19	5	5
11.950	39.206	-11.950	-39.206	76.09	76.16	1.42	1.83	11.65	7	5
12.050	39.534	-12.050	-39.534	48.14	48.81	1.75	3.59	15.11	5	6
12.150	39.862	-12.150	-39.862	75.47	75.64	1.89	2.18	15.17	6	6
12.250	40.190	-12.250	-40.190	62.16	62.35	2.14	3.77	19.15	6	6
12.350	40.518	-12.350	-40.518	21.21	21.36	1.03	4.82	19.17	5	5
12.450	40.846	-12.450	-40.846	50.12	50.20	1.17	2.34	18.17	6	6
12.550	41.174	-12.550	-41.174	65.65	65.73	2.03	3.44	19.05	6	5
12.650	41.502	-12.650	-41.502	91.03	91.15	2.33	2.56	25.20	7	5
12.750	41.830	-12.750	-41.830	54.21	54.30	1.55	2.85	20.19	5	6
12.850	42.158	-12.850	-42.158	76.96	77.03	1.34	1.76	18.45	7	5
12.950	42.485	-12.950	-42.485	60.92	60.91	1.91	4.20	22.54	5	5
13.050	42.813	-13.050	-42.813	81.29	81.15	1.46	1.79	28.55	7	5
13.150	43.141	-13.150	-43.141	51.98	54.09	1.24	1.25	25.59	6	6
13.250	43.471	-13.250	-43.471	25.23	25.38	0.84	3.33	32.22	5	5
13.350	43.795	-13.350	-43.795	20.07	20.27	0.30	1.49	39.39	5	6
13.450	44.123	-13.450	-44.123	19.07	19.26	0.21	1.07	40.31	5	6
13.550	44.455	-13.550	-44.455	24.12	24.30	0.36	1.52	44.55	6	6
13.650	44.783	-13.650	-44.783	25.97	26.14	0.74	2.84	35.63	5	5
13.750	45.111	-13.750	-45.111	50.16	50.29	1.34	2.67	29.31	5	6
13.850	45.439	-13.850	-45.439	89.97	90.01	1.76	1.94	22.65	7	5
13.950	45.767	-13.950	-45.767	34.01	34.30	0.85	2.50	15.45	6	6
14.050	46.095	-14.050	-46.095	26.57	26.66	0.76	2.84	14.19	5	5
14.150	46.423	-14.150	-46.423	28.25	28.96	0.97	3.34	13.64	5	5
14.250	46.751	-14.250	-46.751	40.31	40.41	1.61	3.95	20.67	5	5
14.350	47.079	-14.350	-47.079	42.79	43.80	2.09	4.68	19.25	6	6
14.450	47.408	-14.450	-47.408	31.19	32.27	0.81	2.52	17.15	6	6
14.550	47.736	-14.550	-47.736	41.02	42.80	0.56	1.39	21.11	7	6
14.650	48.064	-14.650	-48.064	14.55	25.65	1.05	7.33	22.41	5	5
14.750	48.392	-14.750	-48.392	17.61	27.63	0.95	2.52	21.41	5	6
14.850	48.720	-14.850	-48.720	105.95	105.90	0.52	0.49	20.65	9	6
14.950	49.048	-14.950	-49.048	81.41	84.71	0.02	0.03	21.03	1	-9999.2
15.050	49.376	-15.050	-49.376	131.12	131.42	0.02	0.03	23.49	1	9999.0
15.150	49.704	-15.150	-49.704	106.62	106.62	0.38	0.39	21.24	1	9999.0

Aug No: 05 5309 1250-5013
CPT File: 7210P03.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
15.250	50.032	-15.250	-50.032	61.75	60.55	0.09	0.11	90.76	9	6
15.350	50.360	-15.350	-50.360	62.14	60.25	0.02	0.03	72.61	8	-9999.0
15.450	50.688	-15.450	-50.688	32.61	32.73	0.01	0.03	25.77	8	-9999.0
15.550	51.016	-15.550	-51.016	31.05	31.20	0.02	0.05	24.63	7	-9999.0
15.650	51.345	-15.650	-51.345	38.62	38.53	0.01	0.03	29.91	8	-9999.0
15.750	51.673	-15.750	-51.673	36.05	36.10	0.01	0.03	3.51	8	-9999.0
15.850	52.001	-15.850	-52.001	29.76	29.72	0.01	0.03	10.02	7	-9999.0
15.950	52.329	-15.950	-52.329	28.86	28.91	0.01	0.03	14.93	7	-9999.0
16.050	52.657	-16.050	-52.657	28.26	28.29	0.01	0.04	10.62	7	-9999.0
16.150	52.985	-16.150	-52.985	29.17	29.22	0.01	0.03	15.76	7	-9999.0
16.250	53.313	-16.250	-53.313	28.23	28.32	0.02	0.05	17.46	7	-9999.0
16.350	53.641	-16.350	-53.641	28.08	28.19	0.02	0.05	23.02	7	-9999.0
16.450	53.969	-16.450	-53.969	28.68	28.75	0.02	0.07	24.66	7	-9999.0
16.550	54.297	-16.550	-54.297	29.07	29.19	0.02	0.05	21.89	7	-9999.0
16.650	54.625	-16.650	-54.625	29.81	30.00	0.01	0.03	28.10	7	-9999.0
16.750	54.953	-16.750	-54.953	30.31	30.37	0.02	0.07	37.27	7	-9999.0
16.850	55.281	-16.850	-55.281	29.48	29.56	0.02	0.05	16.69	7	-9999.0
16.950	55.610	-16.950	-55.610	27.73	27.81	0.02	0.05	21.84	7	-9999.0
17.050	55.938	-17.050	-55.938	26.53	26.63	0.01	0.04	24.81	7	-9999.0
17.150	56.266	-17.150	-56.266	27.31	27.51	0.02	0.05	23.25	7	-9999.0
17.250	56.594	-17.250	-56.594	27.75	27.91	0.02	0.07	32.42	7	-9999.0
17.350	56.922	-17.350	-56.922	27.15	27.31	0.02	0.07	31.35	7	-9999.0
17.450	57.250	-17.450	-57.250	27.14	27.43	0.02	0.07	33.71	7	-9999.0
17.550	57.578	-17.550	-57.578	27.14	27.47	0.02	0.07	27.23	7	-9999.0
17.650	57.906	-17.650	-57.906	28.55	28.67	0.02	0.06	21.33	7	-9999.0
17.750	58.234	-17.750	-58.234	10.95	11.01	0.02	0.16	21.85	7	-9999.0
17.850	58.562	-17.850	-58.562	11.23	11.23	0.01	0.06	16.57	8	-9999.0
17.950	58.891	-17.950	-58.891	11.76	11.84	0.01	0.06	15.11	8	-9999.0
18.050	59.219	-18.050	-59.219	32.60	32.86	0.03	0.09	15.78	7	-9999.0
18.150	59.547	-18.150	-59.547	29.48	29.54	0.02	0.07	16.69	7	-9999.0
18.250	59.875	-18.250	-59.875	29.71	29.79	0.03	0.09	17.26	7	-9999.0
18.350	60.203	-18.350	-60.203	28.52	28.68	0.03	0.09	18.42	7	-9999.0
18.450	60.531	-18.450	-60.531	29.03	29.14	0.03	0.09	23.48	7	-9999.0
18.550	60.859	-18.550	-60.859	29.11	29.25	0.03	0.09	27.38	7	-9999.0
18.650	61.187	-18.650	-61.187	29.07	29.29	0.02	0.07	28.75	7	-9999.0
18.750	61.515	-18.750	-61.515	10.79	10.89	0.01	0.10	22.09	7	-9999.0
18.850	61.843	-18.850	-61.843	11.43	11.53	0.02	0.06	14.97	7	-9999.0
18.950	62.171	-18.950	-62.171	32.91	33.07	0.02	0.06	14.18	7	-9999.0
19.050	62.499	-19.050	-62.499	32.39	33.45	0.02	0.06	13.74	7	-9999.0
19.150	62.827	-19.150	-62.827	33.84	33.89	0.02	0.04	11.78	8	-9999.0
19.250	63.155	-19.250	-63.155	33.19	33.29	0.02	0.04	12.73	8	-9999.0
19.350	63.483	-19.350	-63.483	34.54	34.57	0.02	0.04	7.34	8	-9999.0
19.450	63.812	-19.450	-63.812	36.51	36.56	0.02	0.05	7.23	8	-9999.0
19.550	64.140	-19.550	-64.140	35.87	35.90	0.02	0.04	6.74	8	-9999.0
19.650	64.468	-19.650	-64.468	33.86	33.88	0.01	0.03	6.05	8	-9999.0
19.750	64.796	-19.750	-64.796	32.64	32.67	0.01	0.03	5.72	7	-9999.0
19.850	65.124	-19.850	-65.124	33.35	33.39	0.02	0.06	10.64	8	-9999.0
19.950	65.452	-19.950	-65.452	34.88	34.92	0.01	0.04	9.32	8	-9999.0
20.050	65.780	-20.050	-65.780	34.19	34.22	0.03	0.08	8.47	8	-9999.0
20.150	66.108	-20.150	-66.108	35.23	35.25	0.02	0.04	4.46	8	-9999.0
20.250	66.436	-20.250	-66.436	31.21	31.25	0.01	0.03	9.51	7	-9999.0
20.350	66.764	-20.350	-66.764	27.76	27.84	0.02	0.05	20.55	7	-9999.0
20.450	67.092	-20.450	-67.092	27.15	27.26	0.02	0.05	23.12	7	-9999.0
20.550	67.420	-20.550	-67.420	27.44	27.55	0.02	0.05	24.46	7	-9999.0
20.650	67.749	-20.650	-67.749	26.93	27.06	0.01	0.04	26.26	7	-9999.0
20.750	68.077	-20.750	-68.077	29.61	29.74	0.02	0.05	17.44	7	-9999.0
20.850	68.405	-20.850	-68.405	32.91	32.13	0.01	0.04	24.84	7	-9999.0
20.950	68.733	-20.950	-68.733	32.35	32.45	0.01	0.03	20.95	7	-9999.0
21.050	69.061	-21.050	-69.061	33.10	33.19	0.01	0.03	20.07	8	-9999.0
21.150	69.389	-21.150	-69.389	33.22	33.34	0.02	0.05	24.50	8	-9999.0

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 Idf (Dimen)	Col-11 SBTn (Dimen)
21.250	69.717	-21.250	-69.717	33.54	33.66	0.02	0.04	24.69	8	-9999.0
21.350	70.045	-21.350	-70.045	33.03	33.14	0.01	0.03	24.19	8	-9999.0
21.450	70.373	-21.450	-70.373	32.32	32.42	0.01	0.03	23.76	7	-9999.0
21.550	70.701	-21.550	-70.701	32.29	32.40	0.01	0.04	24.18	7	-9999.0
21.650	71.029	-21.650	-71.029	31.72	31.83	0.01	0.04	24.70	7	-9999.0
21.750	71.357	-21.750	-71.357	32.20	32.32	0.01	0.03	24.21	7	-9999.0
21.850	71.685	-21.850	-71.685	30.23	30.38	0.02	0.05	25.49	7	-9999.0
21.950	72.014	-21.950	-72.014	30.34	30.53	0.02	0.07	39.29	7	-9999.0
22.050	72.342	-22.050	-72.342	31.34	31.51	0.01	0.03	33.20	7	9999.0
22.150	72.670	-22.150	-72.670	30.25	30.43	0.01	0.03	32.24	7	9999.0
22.250	72.998	-22.250	-72.998	29.26	29.44	0.01	0.03	33.25	7	-9999.0
22.350	73.326	-22.350	-73.326	28.20	28.40	0.01	0.04	43.26	7	-9999.0
22.450	73.654	-22.450	-73.654	30.15	30.35	0.01	0.03	43.71	7	-9999.0
22.550	73.982	-22.550	-73.982	31.05	31.18	0.01	0.03	30.33	7	-9999.0
22.650	74.310	-22.650	-74.310	33.52	33.91	0.01	0.03	27.16	8	-9999.0
22.750	74.638	-22.750	-74.638	38.99	39.11	0.01	0.01	24.52	8	-9999.0
22.850	74.966	-22.850	-74.966	38.98	39.03	0.01	0.01	24.98	8	-9999.0
22.950	75.294	-22.950	-75.294	42.76	42.91	0.02	0.04	27.48	8	-9999.0
23.050	75.622	-23.050	-75.622	46.59	46.79	0.01	0.02	27.32	8	-9999.0
23.150	75.951	-23.150	-75.951	50.29	50.49	0.01	0.02	26.81	8	-9999.0
23.250	76.279	-23.250	-76.279	51.20	51.43	0.02	0.04	24.41	8	-9999.0
23.350	76.607	-23.350	-76.607	51.38	51.59	0.01	0.02	25.09	8	-9999.0
23.450	76.935	-23.450	-76.935	52.48	52.69	0.01	0.02	23.31	8	-9999.0
23.550	77.263	-23.550	-77.263	49.23	49.43	0.02	0.03	25.66	8	-9999.0
23.650	77.591	-23.650	-77.591	48.98	49.18	0.02	0.03	26.21	8	-9999.0
23.750	77.919	-23.750	-77.919	44.75	44.87	0.02	0.03	25.70	8	9999.0
23.850	78.247	-23.850	-78.247	35.11	35.33	0.02	0.06	65.55	8	9999.0
23.950	78.575	-23.950	-78.575	36.00	36.21	0.01	0.03	37.56	8	-9999.0
24.050	78.903	-24.050	-78.903	50.55	50.82	0.27	0.52	52.17	8	4
24.150	79.231	-24.150	-79.231	59.76	59.88	0.24	0.39	26.30	8	5
24.250	79.559	-24.250	-79.559	55.99	56.04	0.06	0.11	9.06	8	5
24.350	79.887	-24.350	-79.887	45.58	45.61	0.01	0.02	6.47	8	-9999.0
24.450	80.216	-24.450	-80.216	47.94	48.02	0.03	0.05	15.75	8	-9999.0
24.550	80.544	-24.550	-80.544	56.22	56.32	0.56	0.96	22.91	8	5
24.650	80.872	-24.650	-80.872	76.21	76.25	1.19	1.56	17.36	7	4
24.750	81.200	-24.750	-81.200	113.13	113.15	1.55	1.40	4.09	8	5
24.850	81.528	-24.850	-81.528	167.36	167.36	1.06	1.11	0.61	9	5
24.950	81.856	-24.950	-81.856	196.65	196.65	1.83	0.94	1.40	9	5
25.050	82.184	-25.050	-82.184	186.52	186.52	1.92	1.04	-1.62	9	5
25.150	82.512	-25.150	-82.512	190.96	190.93	1.42	0.75	-3.37	5	6
25.250	82.840	-25.250	-82.840	183.56	183.36	1.95	1.06	0.00	9	5
25.350	83.168	-25.350	-83.168	192.92	192.93	2.02	1.05	1.54	9	5
25.450	83.496	-25.450	-83.496	224.13	224.13	2.64	1.18	-0.23	9	5
25.550	83.824	-25.550	-83.824	243.90	243.89	3.25	1.33	-0.51	5	5
25.650	84.153	-25.650	-84.153	252.84	252.74	4.59	1.82	-14.18	8	5
25.750	84.481	-25.750	-84.481	235.09	235.00	2.85	1.23	-17.44	9	5
25.850	84.809	-25.850	-84.809	244.89	244.81	3.02	1.23	-16.36	9	5
25.950	85.137	-25.950	-85.137	256.50	256.63	4.06	1.58	-14.90	8	5
26.050	85.465	-26.050	-85.465	278.52	278.46	3.57	1.28	-13.58	9	5
26.150	85.793	-26.150	-85.793	199.70	199.53	2.20	1.16	-11.13	7	5
26.250	86.121	-26.250	-86.121	80.32	80.67	2.58	1.59	-10.42	6	4
26.350	86.449	-26.350	-86.449	70.13	70.25	2.50	1.73	-5.51	5	3
26.450	86.777	-26.450	-86.777	90.69	90.84	3.57	1.54	-3.82	5	4
26.550	87.105	-26.550	-87.105	60.81	60.97	3.10	5.85	-5.02	11	1
26.650	87.433	-26.650	-87.433	55.15	55.31	2.46	4.41	-5.42	4	1
26.750	87.761	-26.750	-87.761	52.67	50.70	3.13	5.35	-5.43	3	1
26.850	88.089	-26.850	-88.089	212.71	132.88	3.21	2.35	-7.52	5	4
26.950	88.418	-26.950	-88.418	177.51	177.50	2.00	1.13	-7.19	5	4
27.050	88.746	-27.050	-88.746	181.71	181.58	2.14	1.16	-7.17	5	4
27.150	89.074	-27.150	-89.074	191.15	191.16	1.53	0.80	5.10	5	4

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Col-01 Depth (m)	Col-02 Depth (ft)	Col 03 Elev. (m)	Col 04 Elev. (ft)	Col 05 qc (tsf)	Col 06 qt (tsf)	Col 07 Fr (%)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
27.250	89.402	-27.250	-89.402	178.79	179.78	1.49	0.81	-2.24	9	7
27.350	89.730	-27.350	-89.730	156.11	156.30	2.00	1.28	-2.61	8	5
27.450	90.052	-27.450	-90.058	152.04	152.07	2.47	1.63	-2.17	8	5
27.550	90.386	-27.550	-90.386	196.25	196.26	1.97	1.01	-1.61	9	5
27.650	90.714	-27.650	-90.714	197.14	197.13	1.17	0.59	-1.03	9	6
27.750	91.042	-27.750	-91.042	197.74	197.74	1.01	0.51	-2.05	9	6
27.850	91.370	-27.850	-91.370	199.75	199.75	0.93	0.46	-1.65	9	6
27.950	91.698	-27.950	-91.698	203.37	203.37	0.98	0.48	-1.35	9	6
28.050	92.026	-28.050	-92.026	199.29	199.29	1.91	1.37	-0.79	8	6
28.150	92.355	-28.150	-92.355	89.55	87.17	3.42	3.79	1.19	6	6
28.250	92.683	-28.250	-92.683	61.50	63.11	1.85	6.30	6.44	11	7
28.350	93.011	-28.350	-93.011	55.79	55.42	3.73	6.69	7.17	7	7
28.450	93.339	-28.450	-93.339	54.61	54.35	3.79	6.91	9.01	7	6
28.550	93.667	-28.550	-93.667	56.43	56.58	3.99	7.06	10.26	7	7
28.650	93.996	-28.650	-93.996	57.62	57.68	3.63	6.29	12.03	7	7
28.750	94.324	-28.750	-94.322	51.62	51.47	3.28	6.35	12.01	7	7
28.850	94.652	-28.850	-94.652	48.17	48.23	3.18	6.60	12.54	7	7
28.950	94.979	-28.950	-94.979	44.21	44.27	3.12	7.06	13.40	7	7
29.050	95.307	-29.050	-95.307	39.03	39.12	2.68	6.85	14.41	7	8
29.150	95.635	-29.150	-95.635	34.85	34.72	2.41	7.24	14.16	7	8
29.250	95.963	-29.250	-95.961	31.63	31.73	2.40	7.53	13.30	7	8
29.350	96.291	-29.350	-96.291	30.50	30.53	2.31	7.59	21.22	7	8
29.450	96.618	-29.450	-96.620	31.52	31.62	2.34	7.46	21.45	7	8
29.550	96.948	-29.550	-96.948	31.11	31.22	2.34	7.50	22.66	7	8
29.650	97.276	-29.650	-97.276	30.57	30.68	2.39	7.79	23.28	7	8
29.750	97.604	-29.750	-97.604	32.35	32.48	2.44	7.52	23.53	7	8
29.850	97.932	-29.850	-97.932	31.67	31.56	2.25	7.16	22.96	7	8
29.950	98.260	-29.950	-98.260	31.30	31.43	2.11	6.81	24.25	7	8
30.050	98.588	-30.050	-98.588	31.05	31.16	2.13	6.77	25.10	7	8
30.150	98.916	-30.150	-98.916	30.91	30.94	2.03	6.61	26.17	7	8
30.250	99.244	-30.250	-99.244	30.55	30.70	2.17	6.97	26.07	7	8
30.350	99.572	-30.350	-99.572	30.71	30.91	2.19	6.43	27.64	7	8
30.450	99.900	-30.450	-99.900	31.62	31.77	1.82	5.71	28.78	7	8
30.550	100.228	-30.550	-100.228	27.11	27.42	1.67	6.13	27.81	7	7
30.650	100.557	-30.650	-100.557	25.58	25.75	1.44	5.51	26.68	7	7
30.750	100.885	-30.750	-100.885	23.11	23.28	1.32	5.65	40.07	7	7
30.850	101.213	-30.850	-101.213	21.02	23.20	1.25	5.29	44.19	7	7
30.950	101.541	-30.950	-101.541	22.51	23.13	1.28	5.41	48.64	7	7
31.050	101.869	-31.050	-101.869	24.37	24.52	1.17	5.53	54.73	7	7
31.150	102.197	-31.150	-102.197	21.81	24.26	1.15	5.62	56.71	7	7
31.250	102.525	-31.250	-102.525	23.13	23.44	1.31	5.62	56.26	7	7
31.350	102.853	-31.350	-102.853	23.67	24.24	1.16	5.63	79.02	7	7
31.450	103.181	-31.450	-103.183	24.30	24.69	1.19	5.62	81.73	7	7
31.550	103.509	-31.550	-103.509	23.64	23.95	1.48	6.25	86.73	7	7
31.650	103.837	-31.650	-103.837	21.85	23.87	1.44	6.63	91.91	6	7
31.750	104.165	-31.750	-104.165	21.65	22.26	1.43	6.65	93.56	6	7
31.850	104.493	-31.850	-104.493	24.02	24.26	1.45	6.04	95.25	6	7
31.950	104.822	-31.950	-104.822	23.76	23.93	1.53	6.51	96.64	6	7
32.050	105.150	-32.050	-105.150	20.14	20.15	1.07	5.84	43.24	5	7
32.150	105.478	-32.150	-105.478	21.64	21.97	1.17	6.40	54.46	5	7
32.250	105.806	-32.250	-105.806	25.23	25.39	1.23	6.65	106.77	5	7
32.350	106.134	-32.350	-106.134	28.91	29.67	1.19	6.00	103.94	6	7
32.450	106.462	-32.450	-106.462	32.30	32.61	1.17	5.47	106.59	6	7
32.550	106.790	-32.550	-106.790	29.85	29.16	1.71	6.58	72.14	6	7
32.650	107.118	-32.650	-107.118	22.65	22.19	1.12	6.62	71.56	5	7
32.750	107.446	-32.750	-107.446	20.73	21.16	0.86	6.24	96.60	6	7
32.850	107.774	-32.850	-107.774	20.91	21.62	0.46	3.85	124.99	6	7
32.950	108.102	-32.950	-108.102	21.43	22.02	0.81	4.08	125.78	6	7
33.050	108.430	-33.050	-108.430	21.53	22.16	0.84	3.78	125.21	6	7
33.150	108.759	-33.150	-108.759	21.37	22.26	0.88	3.93	146.95	6	7

Run No: 15 3308 1258 5973
CPT File: 721CP07.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
33.355	109.187	-33.250	-109.087	20.57	21.33	0.91	4.37	161.69	4	3
33.365	109.416	-33.350	-109.416	18.46	19.28	0.83	4.53	175.40	5	2
33.465	109.743	-33.450	-109.743	17.60	18.50	0.77	4.24	193.72	4	3
33.565	110.071	-33.550	-110.071	16.83	17.83	0.71	4.10	212.86	4	2
33.665	110.398	-33.650	-110.398	16.22	17.28	0.69	4.03	224.41	4	2
33.765	110.727	-33.750	-110.727	16.32	17.19	0.65	3.80	229.10	4	2
33.865	111.055	-33.850	-111.055	18.61	19.02	0.70	3.50	135.95	5	3
33.965	111.383	-33.950	-111.383	22.93	23.96	0.93	3.41	221.00	5	3
34.050	111.711	-34.050	-111.711	24.46	25.22	1.01	4.01	261.85	4	3
34.150	112.039	-34.150	-112.039	27.68	28.58	1.35	4.72	148.77	3	3
34.250	112.367	-34.250	-112.367	36.22	36.99	1.91	5.18	163.00	3	3
34.350	112.695	-34.350	-112.695	41.88	43.21	2.24	5.17	269.87	3	3
34.450	113.024	-34.450	-113.024	47.95	49.15	2.63	5.34	258.40	3	3
34.550	113.352	-34.550	-113.352	52.63	53.34	1.37	6.31	198.67	3	3
34.650	113.680	-34.650	-113.680	55.03	55.49	1.07	5.53	98.29	3	3
34.750	114.008	-34.750	-114.008	52.45	53.68	1.41	6.43	49.65	3	3
34.850	114.336	-34.850	-114.336	51.30	53.43	1.25	6.32	66.17	3	3
34.935	114.664	-34.950	-114.664	52.90	53.40	1.07	5.74	106.15	3	3
35.050	114.992	-35.050	-114.992	53.63	54.38	1.03	5.57	153.93	3	3
35.150	115.320	-35.150	-115.320	57.27	58.26	1.27	5.63	211.55	11	3
35.250	115.648	-35.250	-115.648	56.15	57.54	1.28	5.69	316.93	3	3
35.350	115.976	-35.350	-115.976	62.06	63.31	1.53	5.58	267.71	11	3
35.450	116.304	-35.450	-116.304	65.32	70.36	1.96	3.79	135.73	4	4

Interpretation Output - Release 1.22 Rev. A - Build 5 Format: NGP Imperial

Run ID: 20-0108-1256-5871
Job No: 05-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-007
Location: Pigeon Point
Cone: 37 TON AD157
CPT Date: 05/04/05
CPT Time: 12:10
CPT File: 721CP07.COR
Hashing (x): 0.000000
Hashing (y): 0.000000
Elevation (z): 0.000000

Water Table (m): 5.09 (ft): 26.5
Unit Weight of Water (default): 62.43 pcf
Averaging Increment (m): 0.10
Kc Exp Used 13.00 Su/P' (Inc): 0.30
Kc Method Jamiolkowski - All Sands
Gamma Parameter A 1.20
Used Unit Weights Assigned to Soil Zones
Ni60fs Calculated using qcin
Ni50cs Calculated using qcincs

1

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-PO (Zone)	Col-13 SBT-BQn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 V Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 Nkd (b/ft)
0.050	0.164	5	7	1.0E-07	111.4	0.009	0.000	0.009	2.00	5.1
0.150	0.492	5	7	1.0E-07	111.5	0.027	0.000	0.027	2.00	4.3
0.250	0.820	6	7	3.0E-09	114.6	0.046	0.000	0.046	2.00	4.5
0.350	1.148	6	6	3.0E-09	114.6	0.065	0.000	0.065	2.00	4.9
0.450	1.476	6	6	3.0E-09	114.6	0.084	0.000	0.084	2.00	6.1
0.550	1.804	7	7	5.0E-09	114.6	0.103	0.007	0.103	2.00	7.5
0.650	2.131	6	6	5.0E-09	114.6	0.123	0.000	0.123	2.00	6.8
0.750	2.461	6	6	5.0E-09	114.6	0.140	0.000	0.140	2.00	7.5
0.850	2.789	6	6	5.0E-09	114.6	0.159	0.000	0.159	2.00	6.2
0.950	3.117	7	6	5.2E-05	114.6	0.178	0.000	0.178	2.00	8.7
1.050	3.445	8	7	5.3E-01	117.7	0.197	0.000	0.197	2.00	11.7
1.150	3.773	7	6	5.0E-05	114.6	0.216	0.000	0.216	2.00	8.7
1.250	4.101	6	6	5.0E-05	114.6	0.234	0.000	0.234	2.00	8.2
1.350	4.429	7	6	5.0E-04	117.7	0.253	0.000	0.253	1.97	10.7
1.450	4.757	8	6	5.0E-04	117.7	0.272	0.000	0.272	1.91	12.6
1.550	5.085	6	6	1.0E-04	111.4	0.291	0.000	0.292	1.85	12.4
1.650	5.413	6	6	1.0E-04	114.6	0.310	0.000	0.310	1.80	9.0
1.750	5.741	5	5	5.0E-03	114.6	0.329	0.000	0.329	1.74	6.3
1.850	6.069	7	6	3.0E-03	114.6	0.348	0.000	0.348	1.70	10.3
1.950	6.398	7	6	5.0E-05	114.6	0.367	0.000	0.367	1.65	10.0
2.050	6.726	7	6	5.0E-05	114.6	0.386	0.000	0.386	1.61	8.1
2.150	7.054	8	5	5.0E 07	114.6	0.404	0.000	0.404	1.57	8.6
2.250	7.382	6	5	5.0E-06	114.6	0.423	0.000	0.423	1.54	7.4
2.350	7.710	8	6	5.0E-04	117.7	0.442	0.000	0.442	1.50	13.4
2.450	8.038	8	6	5.0E-05	114.6	0.461	0.000	0.461	1.47	13.6
2.550	8.366	8	6	5.0E-05	114.6	0.480	0.000	0.480	1.44	15.4
2.650	8.694	7	6	5.0E-05	114.6	0.499	0.000	0.499	1.42	13.3
2.750	9.022	7	6	5.0E-07	114.6	0.517	0.000	0.517	1.39	12.6
2.850	9.350	7	6	5.0E 05	114.6	0.536	0.000	0.536	1.37	12.4
2.950	9.678	9	6	5.0E 04	117.7	0.555	0.000	0.555	1.34	25.3
3.050	10.006	5	5	5.0E-05	114.6	0.574	0.000	0.574	1.32	10.7
3.150	10.335	6	6	5.0E-04	117.7	0.593	0.000	0.593	1.30	18.0

Run No: 05-0106-1258-5173
DAT File: V2105DAT.DAT

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-12 SET-ZZ (Zone)	Col-13 SET-RUN (Zone)	Col-14 Perm-K (cm/s)	Col-15 Dist Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 Z Stress (tsf)	Col-19 Cn	Col-20 PPD (lb/ft)
3.250	10.663	6	5	5.0E-06	114.6	0.612	0.000	0.612	1.28	6.2
3.300	10.991	6	5	5.0E-06	114.6	0.631	0.000	0.631	1.21	6.0
3.400	11.319	7	6	5.0E-06	114.6	0.650	0.000	0.650	1.24	9.1
3.550	11.647	6	5	5.0E-07	114.6	0.669	0.000	0.669	1.72	7.0
3.650	11.975	1	1	5.0E-04	117.7	0.688	0.000	0.688	1.71	6.4
3.750	12.303	4	1	5.0E-06	114.6	0.707	0.000	0.707	1.19	4.8
3.850	12.631	7	6	5.0E-05	114.6	0.726	0.000	0.726	1.17	8.5
3.950	12.959	7	6	5.0E-06	114.6	0.745	0.000	0.745	1.16	13.2
4.050	13.287	8	6	5.0E-04	117.7	0.764	0.000	0.764	1.14	15.5
4.150	13.615	8	6	5.0E-05	114.6	0.783	0.000	0.783	1.13	20.1
4.250	13.943	4	5	5.0E-06	114.6	0.801	0.000	0.801	1.12	8.1
4.350	14.271	1	1	5.0E-05	114.6	0.820	0.000	0.820	1.10	11.1
4.450	14.599	3	4	5.0E-06	117.7	0.839	0.000	0.839	1.09	14.3
4.550	14.928	8	6	5.0E-06	117.7	0.857	0.000	0.857	1.08	16.4
4.650	15.256	8	6	5.0E-04	117.7	0.876	0.000	0.876	1.07	18.2
4.750	15.584	1	1	5.0E-05	114.6	0.895	0.000	0.895	1.06	12.0
4.850	15.912	1	1	5.0E-06	114.6	0.914	0.000	0.914	1.05	10.6
4.950	16.240	4	4	5.0E-07	114.6	0.933	0.000	0.933	1.03	9.6
5.050	16.568	3	4	5.0E-05	114.6	0.952	0.000	0.952	1.02	11.6
5.150	16.896	8	6	5.0E-04	117.7	0.972	0.000	0.972	1.01	15.8
5.250	17.224	7	5	5.0E-04	117.7	0.992	0.000	0.992	1.00	9.5
5.350	17.552	6	5	5.0E-05	114.6	1.011	0.000	1.011	0.99	7.1
5.450	17.880	6	4	5.0E-05	114.6	1.030	0.000	1.030	0.99	9.1
5.550	18.208	4	4	5.0E-06	114.6	1.049	0.000	1.049	0.98	6.2
5.650	18.537	4	4	5.0E-06	114.6	1.067	0.000	1.067	0.97	6.1
5.750	18.865	5	4	5.0E-06	114.6	1.086	0.000	1.086	0.96	6.5
5.850	19.193	5	4	5.0E-05	114.6	1.105	0.001	1.105	0.95	9.1
5.950	19.521	2	4	5.0E-07	114.6	1.124	0.001	1.124	0.94	7.9
6.050	19.849	5	4	5.0E-08	111.4	1.142	0.001	1.142	0.94	7.4
6.150	20.177	5	4	5.0E-08	111.4	1.160	0.001	1.161	0.93	8.8
6.250	20.505	1	1	5.0E-05	114.6	1.179	0.001	1.179	0.92	10.5
6.350	20.833	1	1	5.0E-04	114.6	1.198	0.001	1.198	0.91	12.8
6.450	21.161	1	1	5.0E-06	114.6	1.216	0.001	1.216	0.91	16.3
6.550	21.489	5	1	5.0E-06	114.6	1.235	0.001	1.235	0.90	9.1
6.650	21.817	1	1	5.0E-04	117.7	1.254	0.001	1.254	0.89	10.1
6.750	22.145	1	1	5.0E-05	114.6	1.273	0.001	1.273	0.89	12.6
6.850	22.473	6	4	5.0E-06	114.6	1.292	0.001	1.292	0.88	8.1
6.950	22.802	3	5	5.0E-04	117.7	1.311	0.001	1.311	0.87	11.9
7.050	23.130	3	4	5.0E-04	117.7	1.331	0.001	1.331	0.87	13.7
7.150	23.458	3	5	5.0E-05	114.6	1.350	0.001	1.350	0.86	14.5
7.250	23.786	3	5	5.0E-06	114.6	1.369	0.001	1.368	0.85	17.5
7.350	24.114	9	6	5.0E-03	120.5	1.388	0.001	1.388	0.85	23.3
7.450	24.442	8	6	5.0E-04	117.7	1.407	0.001	1.407	0.84	22.0
7.550	24.770	6	4	5.0E-06	114.6	1.426	0.001	1.426	0.84	8.2
7.650	25.098	7	5	5.0E-07	114.6	1.445	0.000	1.445	0.83	16.7
7.750	25.426	3	5	5.0E-07	114.6	1.464	0.000	1.464	0.83	21.8
7.850	25.754	9	5	5.0E-05	114.6	1.483	0.000	1.483	0.82	13.8
7.950	26.082	8	6	5.0E-04	117.7	1.502	0.000	1.502	0.82	19.4
8.050	26.410	8	6	5.0E-05	114.6	1.521	0.000	1.521	0.81	25.5
8.150	26.739	9	5	5.0E-06	114.6	1.540	0.000	1.540	0.81	14.3
8.250	27.067	6	5	5.0E-05	114.6	1.558	0.001	1.559	0.81	13.1
8.350	27.395	6	4	5.0E-06	114.6	1.577	0.001	1.578	0.80	8.1
8.450	27.723	7	5	5.0E-04	117.7	1.596	0.001	1.596	0.80	13.6
8.550	28.051	6	5	5.0E-06	114.6	1.615	0.001	1.616	0.80	10.3
8.650	28.379	9	6	5.0E-04	117.7	1.634	0.001	1.635	0.80	35.6
8.750	28.707	7	5	5.0E-05	114.6	1.653	0.001	1.654	0.79	31.9
8.850	29.035	8	5	5.0E-05	114.6	1.672	0.001	1.673	0.79	18.1
8.950	29.363	8	6	5.0E-05	114.6	1.691	0.001	1.692	0.79	21.6
9.050	29.691	7	5	5.0E-07	114.6	1.710	0.001	1.711	0.78	21.6
9.150	30.019	8	6	5.0E-03	111.4	1.728	0.001	1.729	0.78	14.2

Run No 05-0306-1258-5873
CPT File V2127D7.CCR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 SBT-ND (Zone)	Col-04 SBT-NDn (Zone)	Col-05 Perm-k (cm/s)	Col-06 Unit Wt (pcf)	Col-07 T Strength (tsf)	Col-08 V Stress (ksf)	Col-09 E Stress (ksf)	Col-10 OCR	Col-11 N60 (B/ft)
9.250	30.347	3	3	5.0E-05	114.5	1.746	0.519	1.527	0.78	19.5
9.350	30.675	3	3	5.0E-05	114.6	1.765	0.529	1.536	0.76	21.7
9.450	31.004	5	4	5.0E-06	116.6	1.784	0.169	1.464	0.78	5.0
9.550	31.332	5	4	5.0E-05	114.6	1.803	0.159	1.559	0.78	7.3
9.650	31.660	7	5	5.0E-05	114.6	1.822	0.169	1.561	0.78	11.2
9.750	31.988	6	4	5.0E-05	114.6	1.840	0.179	1.570	0.77	9.2
9.850	32.316	5	4	5.0E-05	114.6	1.859	0.189	1.579	0.77	7.6
9.950	32.644	6	4	5.0E-05	114.6	1.878	0.199	1.589	0.77	9.8
10.050	32.972	5	4	5.0E-05	114.6	1.897	0.209	1.598	0.77	7.5
10.150	33.300	6	4	5.0E-05	114.6	1.916	0.219	1.704	0.77	9.7
10.250	33.628	7	5	5.0E-06	116.6	1.934	0.229	1.713	0.76	15.8
10.350	33.956	7	7	5.0E-08	111.4	1.953	0.239	1.721	0.76	34.6
10.450	34.284	7	5	5.0E-06	116.6	1.971	0.249	1.729	0.76	21.7
10.550	34.612	7	5	5.0E-06	116.6	1.990	0.259	1.738	0.76	25.2
10.650	34.941	7	5	5.0E-06	116.6	2.009	0.269	1.746	0.76	22.2
10.750	35.269	7	5	5.0E-06	116.6	2.028	0.279	1.755	0.76	16.8
10.850	35.597	7	5	5.0E-06	116.6	2.047	0.289	1.764	0.76	17.0
10.950	35.925	6	6	5.0E-05	114.6	2.065	0.299	1.772	0.75	22.6
11.050	36.253	7	5	5.0E-06	116.6	2.084	0.309	1.780	0.75	25.6
11.150	36.581	7	5	5.0E-06	116.6	2.103	0.319	1.789	0.75	26.7
11.250	36.909	7	5	5.0E-06	116.6	2.121	0.329	1.797	0.75	21.2
11.350	37.237	7	5	5.0E-06	116.6	2.140	0.339	1.806	0.74	21.7
11.450	37.565	8	5	5.0E-06	116.6	2.159	0.349	1.814	0.74	15.9
11.550	37.895	6	5	5.0E-06	116.6	2.178	0.359	1.823	0.74	16.4
11.650	38.221	7	5	5.0E-06	116.6	2.196	0.369	1.831	0.74	32.6
11.750	38.549	7	5	5.0E-06	116.6	2.215	0.379	1.840	0.74	26.7
11.850	38.877	7	5	5.0E-06	116.6	2.234	0.389	1.849	0.74	26.9
11.950	39.206	6	6	5.0E-06	117.7	2.252	0.399	1.857	0.73	25.9
12.050	39.534	6	5	5.0E-06	116.6	2.271	0.409	1.866	0.73	19.4
12.150	39.862	8	6	5.0E-06	116.6	2.290	0.419	1.875	0.73	16.1
12.250	40.190	6	6	5.0E-06	116.6	2.309	0.429	1.883	0.73	19.8
12.350	40.518	7	6	5.0E-06	117.6	2.327	0.439	1.892	0.73	20.4
12.450	40.846	6	5	5.0E-06	116.6	2.346	0.449	1.900	0.73	19.2
12.550	41.174	6	5	5.0E-06	116.6	2.365	0.459	1.909	0.72	19.2
12.650	41.502	9	6	5.0E-06	119.7	2.385	0.469	1.917	0.72	29.1
12.750	41.830	6	5	5.0E-06	116.6	2.404	0.479	1.926	0.72	20.1
12.850	42.158	8	6	5.0E-06	117.7	2.423	0.489	1.935	0.72	24.6
12.950	42.486	8	5	5.0E-06	116.6	2.442	0.499	1.944	0.72	19.5
13.050	42.814	9	6	5.0E-06	117.7	2.461	0.509	1.952	0.72	24.8
13.150	43.143	8	5	5.0E-06	116.6	2.480	0.519	1.961	0.71	22.7
13.250	43.471	7	4	5.0E-06	116.6	2.499	0.529	1.970	0.71	17.2
13.350	43.799	6	4	5.0E-06	116.6	2.518	0.539	1.978	0.71	7.6
13.450	44.127	6	4	5.0E-06	116.6	2.536	0.549	1.987	0.71	7.6
13.550	44.455	6	4	5.0E-06	116.6	2.555	0.559	1.995	0.71	8.0
13.650	44.783	7	4	5.0E-06	116.6	2.574	0.570	2.004	0.71	12.5
13.750	45.111	8	5	5.0E-06	116.6	2.593	0.580	2.013	0.70	16.3
13.850	45.439	9	6	5.0E-06	117.7	2.612	0.590	2.021	0.70	28.9
13.950	45.767	7	5	5.0E-06	116.6	2.631	0.600	2.030	0.70	21.1
14.050	46.095	7	5	5.0E-06	116.6	2.650	0.610	2.039	0.70	12.6
14.150	46.423	7	5	5.0E-06	116.6	2.668	0.621	2.047	0.70	23.9
14.250	46.752	8	5	5.0E-06	116.6	2.687	0.631	2.056	0.70	19.3
14.350	47.080	8	5	5.0E-06	116.6	2.706	0.642	2.064	0.70	26.8
14.450	47.408	7	5	5.0E-06	116.6	2.725	0.652	2.073	0.69	22.4
14.550	47.736	8	5	5.0E-06	117.7	2.744	0.662	2.081	0.69	31.7
14.650	48.064	7	5	5.0E-06	116.6	2.763	0.672	2.090	0.69	19.1
14.750	48.392	8	5	5.0E-06	116.6	2.782	0.683	2.098	0.69	24.4
14.850	48.720	9	6	5.0E-06	117.7	2.801	0.693	2.107	0.69	30.3
14.950	49.048	8	5	5.0E-06	116.6	2.822	0.703	2.115	0.69	26.1
15.050	49.376	9	6	5.0E-06	117.7	2.841	0.713	2.123	0.69	31.5
15.150	49.704	9	6	5.0E-06	117.7	2.860	0.724	2.132	0.69	30.4

Job No: 55-0309 1256-5671
CPT Date: 02/07/07.CPA

Depth (m)	Depth (ft)	Zone	Perm-k (cm/s)	Unit Wt (pcf)	Stress (tsf)	Stress (tsf)			
15.250	50.032	7	5.0E-02	124.1	2.483	0.934	2.149	0.63	26.1
15.350	50.360	8	5.0E-03	120.9	2.903	0.764	2.139	0.58	14.4
15.450	50.688	7	5.0E-03	120.9	2.923	0.954	2.169	0.57	7.8
15.550	51.016	7	5.0E-04	117.7	2.942	0.945	2.178	0.68	10.8
15.650	51.345	8	5.0E-03	120.9	2.964	0.775	2.187	0.69	9.2
15.750	51.673	7	5.0E-03	120.9	2.982	0.786	2.197	0.67	8.9
15.850	52.001	7	5.0E-03	120.9	3.000	0.795	2.206	0.61	7.5
15.950	52.329	7	5.0E-04	117.7	1.021	0.806	2.215	0.67	9.2
16.050	52.657	7	5.0E-04	117.7	1.040	0.815	2.224	0.67	9.0
16.150	52.985	7	5.0E-04	117.7	1.059	0.826	2.233	0.67	9.1
16.250	53.313	7	5.0E-04	117.7	1.079	0.836	2.242	0.67	9.0
16.350	53.642	7	5.0E-04	117.7	1.098	0.846	2.251	0.67	9.0
16.450	53.970	7	5.0E-04	117.7	1.117	0.857	2.260	0.67	9.2
16.550	54.298	7	5.0E-04	117.7	1.137	0.867	2.270	0.68	9.3
16.650	54.626	7	5.0E-04	117.7	1.156	0.877	2.279	0.66	9.0
16.750	54.954	7	5.0E-04	117.7	1.175	0.887	2.288	0.66	9.0
16.850	55.282	7	5.0E-04	117.7	1.194	0.898	2.297	0.66	9.1
16.950	55.610	7	5.0E-04	117.7	1.214	0.908	2.306	0.66	9.3
17.050	55.938	7	5.0E-04	117.7	1.233	0.918	2.316	0.66	9.5
17.150	56.266	7	5.0E-04	117.7	1.252	0.928	2.324	0.66	9.6
17.250	56.594	7	5.0E-04	117.7	1.272	0.939	2.333	0.65	9.7
17.350	56.922	7	5.0E-04	117.7	1.291	0.949	2.342	0.65	9.8
17.450	57.250	7	5.0E-04	117.7	1.310	0.959	2.351	0.65	9.8
17.550	57.579	7	5.0E-04	117.7	1.330	0.969	2.360	0.65	9.9
17.650	57.907	7	5.0E-04	117.7	1.349	0.979	2.369	0.65	9.9
17.750	58.235	7	5.0E-04	117.7	1.368	0.990	2.378	0.65	9.9
17.850	58.563	7	5.0E-04	117.7	1.388	1.000	2.387	0.65	9.9
17.950	58.891	7	5.0E-03	120.9	1.409	1.010	2.397	0.64	10.5
18.050	59.219	7	5.0E-03	120.9	1.427	1.021	2.406	0.64	9.4
18.150	59.547	7	5.0E-04	117.7	1.447	1.031	2.415	0.64	9.6
18.250	59.875	7	5.0E-04	117.7	1.466	1.041	2.425	0.64	9.8
18.350	60.204	7	5.0E-04	117.7	1.485	1.051	2.434	0.64	9.9
18.450	60.532	7	5.0E-04	117.7	1.505	1.062	2.443	0.64	9.9
18.550	60.860	7	5.0E-04	117.7	1.524	1.072	2.452	0.64	9.9
18.650	61.188	7	5.0E-04	117.7	1.543	1.082	2.461	0.64	9.9
18.750	61.516	7	5.0E-04	117.7	1.563	1.092	2.470	0.64	10.1
18.850	61.845	7	5.0E-04	117.7	1.582	1.103	2.479	0.63	10.2
18.950	62.173	7	5.0E-04	117.7	1.601	1.113	2.488	0.63	10.4
19.050	62.501	7	5.0E-03	120.9	1.620	1.123	2.497	0.63	8.1
19.150	62.829	7	5.0E-04	117.7	1.640	1.133	2.506	0.63	8.3
19.250	63.157	7	5.0E-03	120.9	1.660	1.144	2.516	0.63	8.7
19.350	63.485	7	5.0E-03	120.9	1.680	1.154	2.525	0.63	8.6
19.450	63.813	7	5.0E-03	120.9	1.700	1.164	2.534	0.63	8.5
19.550	64.140	7	5.0E-03	120.9	1.719	1.174	2.543	0.63	10.4
19.650	64.469	7	5.0E-03	120.9	1.739	1.185	2.552	0.62	8.0
19.750	64.796	7	5.0E-04	117.7	1.759	1.194	2.561	0.62	8.4
19.850	65.124	7	5.0E-03	120.9	1.778	1.204	2.570	0.62	8.7
19.950	65.452	7	5.0E-03	120.9	1.798	1.215	2.579	0.62	9.1
20.050	65.780	7	5.0E-03	120.9	1.818	1.225	2.588	0.62	10.0
20.150	66.108	7	5.0E-04	117.7	1.837	1.235	2.597	0.62	8.9
20.250	66.436	7	5.0E-04	117.7	1.856	1.246	2.606	0.62	8.7
20.350	66.764	7	5.0E-04	117.7	1.876	1.256	2.615	0.62	8.8
20.450	67.092	7	5.0E-04	117.7	1.895	1.267	2.624	0.62	8.6
20.550	67.420	7	5.0E-04	117.7	1.915	1.277	2.633	0.62	8.5
20.650	67.749	7	5.0E-04	117.7	1.934	1.287	2.642	0.62	8.5
20.750	68.077	7	5.0E-04	117.7	1.953	1.297	2.651	0.62	10.1
20.850	68.405	7	5.0E-04	117.7	1.973	1.307	2.660	0.61	10.4
20.950	68.733	7	5.0E-03	120.9	1.993	1.318	2.669	0.61	8.1
21.050	69.061	7	5.0E-03	120.9	2.012	1.328	2.678	0.61	8.1
21.150	69.389	7	5.0E-03	120.9	2.032	1.338	2.687	0.61	8.2

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Sbt DD (Zone)	Col-13 SBT-ECH (zone)	Col-14 Penetr (cm/s)	Col-15 Unit Wt (pcf)	Col-16 P Stress (ksf)	Col-17 E Stress (ksf)	Col-18 E Stress (ksf)	Col-19 Cn	Col-20 Qtn (b/dl)
21.240	69.717	7	4	5.0E-03	120.9	4.062	1.340	2.914	0.61	8.3
21.350	70.045	7	4	1.0E-02	120.9	4.072	1.359	2.713	0.61	7.8
21.440	70.373	7	4	5.0E-04	120.9	4.081	1.365	2.719	0.61	12.4
21.550	70.701	7	4	5.0E-04	117.7	4.111	1.379	2.731	0.61	10.1
21.650	71.029	7	4	1.0E-04	117.7	4.110	1.385	2.741	0.60	15.7
21.750	71.357	7	4	5.0E-04	117.7	4.149	1.400	2.750	0.60	10.3
21.850	71.685	7	4	5.0E-04	117.7	4.159	1.410	2.757	0.60	9.7
21.950	72.014	7	4	5.0E-04	117.7	4.169	1.420	2.759	0.60	9.7
22.057	72.362	7	4	5.0E-04	117.7	4.188	1.430	2.777	0.60	10.1
22.150	72.670	7	4	5.0E-04	117.7	4.207	1.443	2.785	0.60	9.7
22.250	72.998	7	4	5.0E-04	117.7	4.227	1.451	2.795	0.60	9.4
22.350	73.326	7	4	5.0E-04	117.7	4.246	1.461	2.804	0.60	9.1
22.450	73.654	7	4	5.0E-04	117.7	4.255	1.461	2.804	0.60	9.1
22.550	73.982	7	4	5.0E-04	117.7	4.265	1.471	2.813	0.60	9.7
22.650	74.310	7	4	5.0E-04	117.7	4.285	1.482	2.822	0.60	10.0
22.750	74.639	7	4	5.0E-04	117.7	4.304	1.492	2.832	0.59	9.1
22.850	74.967	7	4	5.0E-03	120.9	4.324	1.502	2.841	0.59	8.9
22.950	75.295	7	4	5.0E-03	120.9	4.343	1.512	2.851	0.59	9.0
23.050	75.623	7	4	5.0E-03	120.9	4.363	1.523	2.860	0.59	11.3
23.150	75.951	7	4	5.0E-03	120.9	4.383	1.533	2.870	0.59	11.2
23.250	76.279	7	4	5.0E-03	120.9	4.403	1.543	2.880	0.59	11.1
23.350	76.607	7	4	5.0E-03	120.9	4.423	1.553	2.889	0.59	12.3
23.450	76.935	7	4	5.0E-03	120.9	4.443	1.564	2.899	0.59	12.2
23.550	77.263	7	4	5.0E-03	120.9	4.462	1.574	2.909	0.59	11.9
23.650	77.591	7	4	5.0E-03	120.9	4.482	1.584	2.918	0.59	14.3
23.750	77.919	7	4	5.0E-03	120.9	4.502	1.594	2.928	0.58	14.8
23.850	78.247	7	4	5.0E-03	120.9	4.522	1.605	2.937	0.58	15.7
23.950	78.575	7	4	5.0E-03	120.9	4.542	1.615	2.947	0.58	8.5
24.050	78.903	7	4	5.0E-03	120.9	4.562	1.625	2.956	0.58	8.7
24.150	79.231	7	4	5.0E-03	120.9	4.581	1.635	2.966	0.58	12.2
24.250	79.559	7	4	5.0E-03	120.9	4.601	1.645	2.975	0.58	14.7
24.350	79.887	7	4	5.0E-03	120.9	4.621	1.655	2.985	0.58	13.4
24.450	80.216	7	4	5.0E-03	120.9	4.641	1.666	2.995	0.58	10.5
24.550	80.544	7	4	5.0E-03	120.9	4.661	1.676	3.004	0.58	11.5
24.650	80.872	7	4	5.0E-03	120.9	4.681	1.686	3.014	0.57	13.5
24.750	81.200	7	4	5.0E-03	120.9	4.700	1.697	3.023	0.57	14.4
24.850	81.529	7	4	5.0E-03	120.9	4.720	1.707	3.033	0.57	13.1
24.950	81.857	7	4	5.0E-03	120.9	4.740	1.717	3.042	0.57	14.1
25.050	82.185	7	4	5.0E-03	120.9	4.760	1.727	3.052	0.57	13.9
25.150	82.513	7	4	5.0E-03	120.9	4.780	1.737	3.061	0.57	15.5
25.250	82.841	7	4	5.0E-03	120.9	4.800	1.748	3.071	0.57	15.6
25.350	83.169	7	4	5.0E-03	120.9	4.820	1.758	3.080	0.57	15.2
25.450	83.496	7	4	5.0E-03	120.9	4.841	1.768	3.090	0.57	17.0
25.550	83.824	7	4	5.0E-03	120.9	4.861	1.778	3.099	0.57	12.8
25.650	84.152	7	4	5.0E-03	120.9	4.881	1.789	3.109	0.57	14.7
25.750	84.480	7	4	5.0E-03	120.9	4.902	1.799	3.118	0.57	16.5
25.850	84.808	7	4	5.0E-03	120.9	4.922	1.809	3.128	0.57	15.0
25.950	85.136	7	4	5.0E-03	120.9	4.942	1.820	3.137	0.56	16.3
26.050	85.464	7	4	5.0E-03	120.9	4.963	1.830	3.147	0.56	16.1
26.150	85.792	7	4	5.0E-03	120.9	5.003	1.840	3.163	0.56	16.3
26.250	86.120	7	4	5.0E-03	120.9	5.023	1.850	3.173	0.56	20.9
26.350	86.448	7	4	5.0E-03	120.9	5.043	1.861	3.182	0.56	23.0
26.450	86.777	7	4	5.0E-03	120.9	5.063	1.871	3.191	0.56	43.4
26.550	87.105	7	4	5.0E-03	120.9	5.083	1.881	3.199	0.56	58.2
26.650	87.433	7	4	5.0E-03	120.9	5.103	1.891	3.209	0.56	76.2
26.750	87.761	7	4	5.0E-03	120.9	5.123	1.902	3.219	0.56	95.6
26.850	88.089	7	4	5.0E-03	120.9	5.143	1.912	3.227	0.56	93.2
26.950	88.417	7	4	5.0E-03	120.9	5.163	1.922	3.236	0.56	34.1
27.050	88.745	7	4	5.0E-03	120.9	5.183	1.932	3.245	0.55	34.8
27.150	89.074	7	4	5.0E-03	120.9	5.203	1.943	3.255	0.55	36.4
27.250	89.402	7	4	5.0E-03	120.9	5.223	1.953	3.265	0.55	36.4

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DFT File: T21\007.DFA

Col-01 Depth (m)	Col-07 Depth (ft)	Col-12 SBT-RW (Zone)	Col-13 SBT-RW (Zone)	Col-14 Perm-k (m/s)	Col-15 Unit Wt (pcf)	Col-16 T Screen (tsf)	Col 17 Sleeve (tsf)	Col-18 S Stress (tsf)	Col-19 OCR	Col-20 USD (lb/ft)
23.750	89.402	5	6	5.0E-02	124.1	6.238	1.961	3.275	5.54	34.4
21.350	89.730	5	6	6.0E-03	120.9	6.749	1.977	3.285	6.55	37.4
27.450	90.050	5	6	6.0E-03	120.9	6.276	1.984	3.295	8.51	36.4
27.550	90.386	5	6	5.0E-02	124.1	6.299	1.990	3.305	6.59	37.5
27.650	90.714	5	6	5.7E-02	124.2	6.319	2.004	3.315	6.55	31.8
27.750	91.042	5	6	5.0E-02	124.1	6.339	2.014	3.325	6.55	37.9
27.850	91.370	5	6	5.0E-02	124.1	6.360	2.025	3.335	6.55	38.0
27.950	91.698	5	6	5.0E-02	124.1	6.380	2.035	3.345	6.55	39.0
28.050	92.026	5	6	5.0E-02	124.1	6.400	2.045	3.356	6.56	31.3
28.150	92.355	5	6	5.0E-03	120.9	6.419	2.054	3.366	6.56	41.5
28.250	92.683	5	6	5.0E-06	114.6	6.439	2.065	3.376	6.56	38.1
28.350	93.011	5	6	1.0E-05	100.5	6.459	2.076	3.386	6.56	33.6
28.450	93.339	5	6	1.0E-05	111.4	6.478	2.086	3.396	6.56	32.5
28.550	93.667	5	6	5.0E-09	111.4	6.498	2.096	3.406	6.56	34.0
28.650	93.996	5	6	5.0E-06	111.4	6.514	2.106	3.416	6.56	35.2
28.750	94.324	5	6	5.0E-08	111.4	6.532	2.117	3.426	6.56	43.5
28.850	94.652	5	6	5.0E-08	111.4	6.551	2.127	3.436	6.56	46.2
28.950	94.980	5	6	5.0E-08	111.4	6.569	2.137	3.446	6.56	47.6
29.050	95.308	5	6	5.0E-06	111.4	6.587	2.147	3.456	6.56	37.5
29.150	95.637	5	6	5.0E-08	111.4	6.606	2.158	3.466	6.56	33.3
29.250	95.965	5	6	5.0E-08	111.4	6.624	2.168	3.476	6.56	32.4
29.350	96.293	5	6	5.0E-08	111.4	6.642	2.178	3.486	6.56	29.5
29.450	96.621	5	6	5.0E-08	111.4	6.660	2.189	3.496	6.56	30.1
29.550	96.950	5	6	5.0E-08	111.4	6.679	2.199	3.506	6.56	29.9
29.650	97.278	5	6	5.0E-08	111.4	6.697	2.209	3.516	6.56	29.4
29.750	97.606	5	6	5.0E-08	111.4	6.715	2.219	3.526	6.56	31.1
29.850	97.934	5	6	5.0E-08	111.4	6.737	2.230	3.536	6.56	30.6
29.950	98.263	5	6	5.0E-08	111.4	6.752	2.240	3.546	6.56	30.1
30.050	98.591	5	6	5.0E-08	111.4	6.770	2.250	3.556	6.56	29.8
30.150	98.919	5	6	5.0E-08	111.4	6.788	2.260	3.566	6.56	29.0
30.250	99.247	5	6	5.0E-08	111.4	6.807	2.270	3.576	6.56	32.1
30.350	99.576	5	6	5.0E-08	111.4	6.825	2.281	3.586	6.56	35.2
30.450	99.904	5	6	5.0E-08	111.4	6.843	2.291	3.596	6.56	33.6
30.550	100.232	5	6	5.0E-08	111.4	6.861	2.301	3.606	6.56	26.1
30.650	100.561	5	6	5.0E-08	111.4	6.880	2.311	3.616	6.56	24.7
30.750	100.889	5	6	5.0E-08	111.4	6.898	2.322	3.626	6.56	22.3
30.850	101.217	5	6	5.0E-08	111.4	6.916	2.332	3.636	6.56	22.1
30.950	101.545	5	6	5.0E-08	111.4	6.934	2.342	3.646	6.56	21.6
31.050	101.874	5	6	5.0E-08	111.4	6.953	2.352	3.656	6.56	23.1
31.150	102.202	5	6	5.0E-08	111.4	6.971	2.363	3.666	6.56	22.4
31.250	102.530	5	6	5.0E-08	111.4	6.989	2.373	3.676	6.56	22.5
31.350	102.859	5	6	5.0E-08	111.4	7.008	2.383	3.686	6.56	23.4
31.450	103.187	5	6	5.0E-08	111.4	6.026	2.393	3.696	6.56	26.1
31.550	103.515	5	6	5.0E-08	111.4	6.044	2.404	3.706	6.56	25.5
31.650	103.843	5	6	5.0E-08	111.4	6.063	2.414	3.716	6.56	23.9
31.750	104.172	5	6	5.0E-08	111.4	6.081	2.424	3.726	6.56	23.7
31.850	104.500	5	6	5.0E-08	111.4	6.100	2.434	3.736	6.56	23.0
31.950	104.828	5	6	5.0E-08	111.4	6.118	2.444	3.746	6.56	23.1
32.050	105.156	5	6	5.0E-08	111.4	6.137	2.455	3.756	6.56	24.7
32.150	105.485	5	6	5.0E-08	111.4	6.155	2.465	3.766	6.56	26.9
32.250	105.813	5	6	5.0E-08	111.4	6.173	2.475	3.776	6.56	25.6
32.350	106.141	5	6	5.0E-08	111.4	6.192	2.485	3.786	6.56	24.0
32.450	106.470	5	6	5.0E-08	111.4	6.210	2.496	3.796	6.56	27.8
32.550	106.798	5	6	5.0E-08	111.4	6.229	2.506	3.806	6.56	25.8
32.650	107.126	5	6	5.0E-08	111.4	6.247	2.516	3.816	6.56	23.7
32.750	107.454	5	6	5.0E-08	111.4	6.266	2.526	3.826	6.56	24.1
32.850	107.774	5	6	5.0E-08	111.4	6.284	2.537	3.836	6.56	24.3
32.950	108.102	5	6	5.0E-08	111.4	6.302	2.547	3.846	6.56	24.1
33.050	108.431	5	6	5.0E-08	111.4	6.321	2.557	3.856	6.56	24.0
33.150	108.759	5	6	5.0E-08	111.4	6.343	2.567	3.866	6.56	24.1

Run No 05-0398-1258-5871
CPT File 721CP07.COM

Col-01 Depth (m)	Col 02 Depth (ft)	Col-13 SBT-BD (Zone)	Col 11 SBT BDn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col 16 V Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cu	Col-20 Nfd (b/ft)
33.250	109.067	5	3	5.0E-07	114.4	6.362	2.578	3.744	0.51	19.6
33.350	109.415	5	3	5.0E-07	111.4	6.180	2.586	3.792	0.51	16.5
33.450	109.741	4	3	5.0E-07	114.6	4.399	2.598	3.821	0.51	11.8
33.550	110.071	4	3	5.0E-07	114.5	6.412	2.603	3.669	0.51	11.4
33.650	110.399	4	3	5.0E-07	114.6	6.436	2.619	3.618	0.51	11.2
33.750	110.727	4	3	5.0E-07	114.6	6.455	2.627	3.826	0.51	11.1
33.850	111.055	4	3	5.0E-06	114.5	6.474	2.639	3.834	0.51	9.5
33.950	111.383	5	3	5.0E-06	114.6	6.493	2.649	3.847	0.51	12.8
34.050	111.713	5	3	5.0E-07	114.6	6.512	2.660	3.852	0.51	16.1
34.150	112.039	6	3	5.0E-08	111.4	6.530	2.670	3.860	0.51	27.4
34.250	112.367	6	4	4.0E-08	111.4	6.548	2.680	3.868	0.51	35.6
34.350	112.695	6	4	5.0E-06	111.4	6.567	2.690	3.876	0.51	41.4
34.450	113.024	6	4	5.0E-09	111.4	6.585	2.701	3.884	0.51	47.1
34.550	113.352	6	4	5.0E-08	111.4	6.603	2.711	3.892	0.51	51.1
34.650	113.680	8	5	5.0E-08	111.4	6.622	2.721	3.900	0.51	53.1
34.750	114.008	6	4	5.0E-09	111.4	6.640	2.731	3.908	0.51	50.4
34.850	114.336	5	4	5.0E-06	111.4	6.658	2.742	3.917	0.50	49.2
34.950	114.664	6	4	5.0E-08	111.4	6.676	2.752	3.925	0.50	51.1
35.050	114.952	7	7	5.0E-08	111.4	6.695	2.762	3.933	0.50	52.1
35.150	115.320	7	4	1.0E-05	110.5	6.714	2.772	3.942	0.50	56.6
35.250	115.648	6	4	5.0E-08	111.4	6.734	2.783	3.950	0.50	56.2
35.350	115.976	7	4	1.0E-05	110.5	6.754	2.793	3.961	0.50	60.6
35.450	116.304	9	5	5.0E-05	114.6	6.774	2.803	3.977	0.50	77.0

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CPTwin32 Inc - CPT Interpretation
Interpretation Output - Release 1.22 Rev A - Build 5  Format: NLP Imperial
Run No:    05-05CE-1052-5B71
Job No:    05-121
Client:    Geosyntec Consultants
Project:   Pigeon Point Landfill - Wilmington, Delaware
Site:      CPT-05-007
Location   Pigeon Point
Cone:       20 TON  AD:57
CPT Date:  05/06/01
CPT Time:  12.00
CPT File:  121C007.COR
Operator   (m):          0.000000
Easting    (m):          0.000000
Elevation  (m)           0.010700
------------------------------------------------------------------------------
Water Table (m):              8.19        (Est:   26.5
Unit Weight of Water (default):     62.40 pcf
Averaging Increment (m):      0.10
Su Not Used:       15.00      Su/P' (Ocr):    0.20
Dr  Method :                  Cubiciewski - All Sands
Users Parameter M             1.20
Used Unit Weights Assigned to Soil Zones
Qtbnic Calculated using qnet
Ntbrus Calculated using qtbnic*
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Col-01 Depth (m)	Col-02 Depth (ft)	Col 21 Qt(tsf) (ft/sec)	Col-22 Ntbnic (b/ft)	Col-23 Ntbn1)c (b/ft)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Soluc (conn)
0.050	0.164	6.2	3.1	12.5	101.01	0.16	0.00	1.10	5.0	6
0.100	0.492	5.6	1.6	10.1	324.09	0.11	0.00	1.71	5.0	6
0.150	0.820	9.1	-9999.0	-9999.0	256.64	0.09	-0.03	-9999.0	-9999.0	0
0.200	1.148	8.5	2.1	9.5	160.14	0.44	-0.01	0.05	5.0	5
0.250	1.476	17.6	3.0	10.7	154.98	1.91	-0.01	0.38	24.9	5
0.300	1.804	16.2	2.1	11.7	191.25	1.55	-0.01	2.00	26.9	6
0.350	2.133	13.6	6.3	11.9	165.97	1.56	-0.01	0.33	71.7	6
0.400	2.461	14.6	3.6	10.3	137.56	2.04	-0.03	7.61	91.2	5
0.450	2.789	12.6	2.5	10.1	90.04	3.16	-0.04	2.54	33.6	6
0.500	3.117	17.3	4.0	11.7	126.25	1.21	-0.01	2.16	16.4	6
0.550	3.445	27.6	8.5	10.6	237.90	1.15	0.00	1.97	12.0	5
0.600	3.773	37.5	5.7	11.4	174.78	1.07	0.00	2.01	23.3	5
0.650	4.101	15.3	6.1	8.7	91.67	3.65	0.00	2.47	29.2	5
0.700	4.429	20.3	5.6	13.8	129.37	1.47	0.01	2.17	31.9	5
0.750	4.757	24.0	6.2	15.0	143.15	1.41	0.02	2.14	16.3	5
0.800	5.085	23.0	3.4	11.9	97.43	4.67	0.01	2.63	35.9	4
0.850	5.413	9.0	2.8	6.9	32.85	3.71	0.03	2.60	33.7	4
0.900	5.741	7.7	1.8	5.4	24.04	1.89	0.01	2.55	24.4	3
0.950	6.069	17.6	6.2	10.7	96.27	1.83	0.00	2.33	24.2	5
1.000	6.398	21.5	7.8	13.2	93.71	2.30	0.00	2.34	30.3	5
1.050	6.726	13.1	6.2	8.6	54.09	3.16	0.03	2.48	36.2	4
1.100	7.054	13.5	3.5	5.8	32.18	3.29	0.02	2.60	45.1	3
1.150	7.382	13.8	4.0	6.0	35.65	2.75	0.03	2.51	39.4	3
1.200	7.710	20.4	9.2	14.2	95.04	1.67	0.00	2.35	24.5	5
1.250	8.038	20.9	8.2	12.3	79.83	2.19	0.00	2.25	27.0	5
1.300	8.365	22.2	9.0	13.2	82.59	2.94	0.00	2.43	29.5	5
1.350	8.694	18.7	8.7	11.9	67.96	3.62	0.02	2.53	30.3	6
1.400	9.022	17.4	8.2	10.2	57.10	3.67	0.00	2.41	27.1	6
1.450	9.350	16.5	7.1	9.4	54.42	2.06	0.00	2.02	23.0	5
1.500	9.678	41.7	15.8	21.7	140.42	1.53	0.00	2.47	29.9	5
1.550	10.006	77.0	32.0	39.5	76.55	3.40	0.01	2.29	18.0	3
1.600	10.335	21.3	12.2	16.1	93.84	1.81	0.00			

Run ID: CPT-0308-1258-5173
CPT File: 7215P07.CPT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Si(650) (lb/ft)	Col-22 Si(650)c (lb/ft)	Col-23 Si(650)Sc (lb/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 Fr (%)	Col-29 Isbzone (Jones)
3.240	10.630	7.9	3.6	5.9	20.11	2.97	0.00	2.95	43.1	4
3.290	10.991	6.7	4.0	4.8	27.59	1.95	0.00	2.60	35.3	5
3.450	11.319	11.6	5.2	7.9	24.64	2.41	0.00	2.66	33.9	5
3.500	11.647	6.1	5.2	4.7	15.64	2.94	0.00	2.84	49.3	4
3.650	11.976	7.7	4.6	6.6	26.27	0.59	0.00	2.32	28.2	5
3.750	12.303	5.4	2.7	3.7	12.49	1.50	0.00	2.91	44.4	4
3.800	12.631	10.5	5.6	7.1	21.10	1.13	0.00	2.66	31.6	5
3.950	12.960	15.7	9.2	9.2	36.01	1.32	0.00	2.63	25.6	4
4.000	13.287	16.1	10.5	12.3	64.04	1.56	0.00	2.29	20.0	5
4.150	13.615	22.7	15.9	18.8	65.99	2.21	0.00	2.32	21.2	5
4.250	13.943	9.8	6.1	6.4	21.77	3.27	0.00	2.75	43.1	4
4.300	14.271	12.6	7.8	7.9	15.11	1.97	0.00	2.42	27.3	5
4.450	14.600	25.1	16.0	13.3	52.22	1.57	0.00	2.22	20.9	5
4.500	14.928	17.8	10.9	12.0	69.21	1.10	0.00	2.14	17.3	6
4.550	14.928	19.4	12.3	13.4	60.46	1.50	0.00	2.20	18.9	6
4.650	15.256	12.7	7.9	8.5	14.00	2.46	0.00	2.84	32.1	5
4.750	15.584	10.7	6.6	6.4	22.54	2.16	0.00	2.69	40.3	4
4.850	15.912	6.7	3.6	3.5	9.91	3.69	0.01	3.07	63.0	3
4.950	16.240	11.2	6.6	7.1	20.81	3.46	0.01	2.44	28.2	5
5.050	16.568	13.0	8.4	8.7	17.07	1.18	0.00	2.30	22.8	5
5.150	16.896	9.5	5.1	7.2	28.94	1.26	0.01	2.62	27.2	5
5.250	17.224	7.2	3.8	4.8	17.75	1.48	0.01	2.61	35.7	4
5.350	17.552	5.3	2.7	3.1	12.53	1.55	0.01	2.76	42.7	4
5.450	17.880	5.7	3.1	3.0	9.36	1.89	0.01	2.91	52.8	4
5.550	18.208	4.7	2.5	2.5	8.50	1.69	0.01	2.42	50.0	3
5.650	18.537	3.7	1.9	2.6	7.69	2.10	0.01	3.01	59.2	3
5.750	18.865	4.3	2.3	1.3	11.24	1.63	0.00	2.37	46.7	3
5.850	19.193	4.9	2.8	3.4	9.60	3.36	0.02	3.07	65.6	3
5.950	19.521	7.3	4.3	2.5	5.76	5.66	0.02	3.36	86.2	3
6.050	19.849	6.8	4.0	2.8	5.92	5.26	0.02	3.27	78.4	3
6.150	20.177	8.2	4.8	5.0	21.38	2.11	0.01	2.64	37.4	4
6.250	20.505	9.2	5.4	7.4	26.93	2.72	0.00	2.63	36.7	4
6.350	20.833	11.7	7.0	9.7	25.16	3.32	0.01	2.70	40.7	4
6.450	21.162	11.3	6.8	8.7	16.26	3.38	0.01	2.60	52.1	4
6.550	21.489	8.1	4.8	6.0	24.98	3.43	0.01	2.65	39.4	5
6.650	21.817	9.1	5.7	7.3	26.78	3.05	0.01	2.69	38.7	5
6.750	22.145	11.1	6.8	8.8	22.03	3.18	0.02	2.96	55.9	4
6.850	22.473	7.1	4.3	4.0	27.12	1.44	0.01	2.43	36.5	5
6.950	22.802	10.3	6.3	7.6	31.75	0.88	0.01	2.23	28.0	5
7.050	23.130	12.1	7.5	8.6	27.74	2.28	0.01	2.53	33.2	5
7.150	23.458	12.8	8.0	9.2	25.64	3.13	0.01	2.68	38.5	4
7.250	23.786	14.9	9.8	10.7	30.96	1.52	0.00	2.55	34.6	5
7.350	24.114	20.2	13.5	13.9	47.94	1.50	0.01	2.23	29.9	5
7.450	24.443	16.5	11.0	12.7	8.59	3.28	0.05	3.06	60.1	3
7.550	24.771	8.7	5.7	7.1	17.09	4.49	0.01	2.91	52.7	4
7.650	25.099	13.9	9.3	9.5	22.33	4.62	0.04	2.84	46.3	4
7.750	25.426	18.0	12.0	12.0	23.40	2.36	0.01	2.69	39.9	4
7.850	25.754	13.3	9.0	9.6	39.55	2.13	0.01	2.36	24.7	5
7.950	26.082	15.9	10.8	14.1	63.52	0.58	0.01	2.43	27.6	4
8.010	26.410	21.0	14.3	16.2	16.70	3.68	0.01	2.82	47.0	4
8.150	26.739	11.7	8.0	8.8	12.55	2.67	0.07	2.89	51.2	4
8.250	27.067	8.1	5.5	6.1	9.24	3.79	0.02	2.90	59.3	3
8.350	27.395	6.9	4.9	4.9	22.00	0.71	0.01	2.26	31.9	4
8.450	27.723	9.3	6.3	6.3	37.68	3.23	0.02	2.91	54.9	5
8.550	28.051	8.2	5.7	4.1	74.05	2.31	0.00	2.16	15.2	6
8.650	28.379	30.9	24.0	21.2	19.92	0.09	0.01	2.95	55.5	5
8.750	28.707	25.1	19.9	5.6	23.07	2.55	0.00	2.65	36.0	5
8.850	29.035	12.8	10.5	6.6	37.42	2.75	0.00	2.46	28.4	5
8.950	29.363	16.7	14.4	12.0	19.91	4.89	0.01	2.89	51.4	4
9.050	29.691	17.0	10.3	6.3	8.29	5.21	0.04	3.21	77.6	3
9.150	30.019	13.3	5.6	3.2						

Job No: 86-0426-1254-5875
Tool File: 721CP07.COR

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-21 RILD (ohm)	Col-22 RILM (ohm)	Col-23 RILD (ohm)	Col-24 GR	Col-25 PE (b/e)	Col-26 DPU	Col-27 DC	Col-28 PE (b/e)	Col-29 calzone (none)
9.250	30.167	15.4	17.2	9.2	10.77	2.19	0.01	2.44	26.1	6
9.350	30.635	10.9	10.1	6.2	21.12	3.09	0.01	2.04	42.9	6
9.450	31.004	5.3	4.9	2.7	7.51	3.23	0.04	3.12	66.7	3
9.550	31.152	5.7	5.6	3.2	10.44	2.54	0.04	2.85	47.5	4
9.650	31.460	7.9	7.6	4.4	14.93	2.15	0.04	2.71	44.3	4
9.750	31.952	7.5	7.1	4.1	17.22	2.57	0.04	2.66	49.6	4
9.850	32.316	6.1	5.1	3.5	11.12	2.09	0.05	2.57	50.1	4
9.950	32.644	5.2	5.1	2.9	5.30	1.82	0.06	2.68	62.7	4
10.050	32.972	4.7	4.7	2.9	8.25	1.96	0.07	2.97	59.1	4
10.150	33.300	5.1	5.3	2.9	9.06	1.64	0.06	2.50	51.7	4
10.250	33.628	17.1	15.1	5.5	18.15	3.20	0.03	2.60	45.2	4
10.350	33.956	26.4	23.7	6.4	19.87	5.20	0.02	2.91	52.0	4
10.450	34.284	11.5	11.7	7.4	15.05	4.29	0.03	2.76	44.8	4
10.550	34.612	10.1	11.4	6.7	21.60	4.07	0.03	2.87	50.0	4
10.650	34.941	10.5	12.3	7.0	21.05	4.42	0.02	2.61	46.8	4
10.750	35.269	12.7	10.1	6.7	16.86	3.35	0.03	2.60	46.7	4
10.850	35.597	12.8	10.5	6.8	18.96	1.97	0.00	2.85	48.7	4
10.950	35.925	17.0	15.4	6.3	12.20	1.35	0.00	2.63	15.8	3
11.050	36.253	17.6	6.5	1.6	12.56	6.56	0.01	2.13	67.3	5
11.150	36.581	10.7	5.4	4.5	13.48	4.22	0.00	2.93	57.2	4
11.250	36.909	5.4	5.6	4.5	15.12	2.82	0.00	2.80	46.0	4
11.350	37.237	9.7	8.9	4.8	15.76	2.83	0.00	2.82	47.7	4
11.450	37.565	11.6	10.3	5.0	21.65	2.07	0.00	2.61	35.8	4
11.550	37.893	10.1	10.1	4.0	27.26	1.96	0.01	2.61	25.0	4
11.650	38.221	8.7	9.5	5.1	30.70	1.03	0.01	2.62	47.0	3
11.750	38.549	12.5	8.5	4.4	12.99	4.05	0.01	3.03	58.4	4
11.850	38.877	13.8	10.2	5.4	14.85	4.09	0.01	2.97	51.7	5
11.950	39.205	18.3	17.6	15.3	19.87	1.88	0.00	2.28	53.7	4
12.050	39.534	17.3	23.0	7.3	21.16	3.77	0.00	2.14	42.6	4
12.150	39.862	20.4	21.1	17.9	32.61	2.56	0.00	2.40	26.0	5
12.250	40.190	21.7	16.7	8.9	31.78	1.51	0.00	2.00	39.2	4
12.350	40.518	14.8	7.6	3.1	10.03	1.47	0.01	3.15	49.0	1
12.450	40.846	14.3	13.1	5.9	25.15	2.45	0.00	2.62	36.4	4
12.550	41.174	21.1	13.4	7.0	22.93	4.50	0.00	2.64	46.1	4
12.650	41.502	21.0	20.8	10.4	16.30	2.02	0.00	2.50	43.8	5
12.750	41.830	25.9	14.4	7.6	26.35	2.98	0.00	2.65	11.9	4
12.850	42.158	17.7	17.2	12.6	38.65	1.79	0.00	2.29	21.7	4
12.950	42.486	14.0	12.2	6.3	19.75	3.47	0.01	2.67	50.0	5
13.050	42.814	18.6	10.1	13.2	40.60	1.89	0.00	2.27	73.4	4
13.150	43.143	14.8	16.1	7.6	26.05	3.43	0.00	2.70	61.0	4
13.250	43.471	6.7	6.2	3.9	11.62	3.86	0.01	2.96	59.1	3
13.350	43.799	5.5	6.2	2.9	9.98	3.69	0.04	2.93	52.3	4
13.450	44.127	5.2	5.7	2.6	8.42	3.27	0.04	2.86	49.7	4
13.550	44.455	6.6	7.3	3.4	10.15	3.59	0.04	2.82	47.0	4
13.650	44.783	6.8	8.7	3.9	11.96	3.35	0.02	2.95	59.9	3
13.750	45.111	11.6	13.3	6.3	21.09	2.40	0.00	2.84	37.3	4
13.850	45.439	20.3	20.3	14.4	43.55	2.01	0.00	2.96	21.2	6
13.950	45.767	9.2	10.0	4.8	15.60	2.82	0.00	2.82	67.6	4
14.050	46.095	8.9	9.6	3.9	11.78	2.15	0.00	2.96	65.7	3
14.150	46.423	9.7	9.2	4.2	12.84	1.68	0.00	2.86	55.9	4
14.250	46.751	13.5	12.3	5.7	18.99	4.01	0.00	2.66	49.7	4
14.350	47.079	15.7	12.1	5.7	19.94	2.64	0.00	2.72	43.5	4
14.450	47.406	8.6	9.6	4.4	13.79	2.05	0.00	2.85	42.9	4
14.550	47.734	9.9	10.2	5.3	19.24	1.30	0.00	2.62	36.5	4
14.650	48.062	9.4	10.6	4.9	19.75	3.20	0.00	2.55	49.2	4
14.750	48.390	10.8	10.8	5.0	10.60	2.72	0.00	2.19	45.4	4
14.850	48.720	14.0	20.1	14.1	43.93	0.51	0.00	1.65	8.5	0
14.950	49.048	11.1	-9999.0	-9999.0	52.05	0.02	0.00	-9999.0	-9999.0	0
15.050	49.376	14.6	-9999.0	-9999.0	51.01	0.02	0.00	-9999.0	-9999.0	0
15.150	49.704	14.0	-9999.0	-9999.0	46.03	0.05	0.00	9193.0	-9999.0	0

Acq ID: 05-0208-1056-5673
CPT File: T21CPT1.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Qc (MPa)	Col-22 Fs (kPa)	Col-23 Rf (%)	Col-24 GL	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 Ic_Cone (Dimensionless)
15.250	50.032	21.0	15.2	10.4	17.58	0.31	0.00	1.74	3.0	6
15.300	50.360	9.4	9999.0	-5995.0	24.54	0.07	0.00	9999.0	9999.0	0
15.450	50.688	5.1	-5995.0	-9999.0	33.75	0.03	0.00	-9995.0	-9995.0	0
15.500	51.016	6.7	-9999.0	-9999.0	32.97	0.03	0.00	-9999.0	-9999.0	0
15.550	51.345	6.2	9999.0	-5993.0	14.26	0.03	-0.02	-9999.0	9999.0	0
15.650	51.673	6.0	9995.0	-9990.0	15.08	0.04	-0.02	-9999.0	-9999.0	0
15.750	52.001	6.4	-9999.0	-9999.0	12.14	0.04	-0.01	-9999.0	-9999.0	0
15.850	52.329	6.0	-9999.0	-9997.0	11.69	0.04	0.02	-9997.0	-9997.0	0
15.950	52.657	6.1	-9999.0	-9997.0	11.35	0.03	-0.02	-9997.0	-9999.0	0
16.050	52.985	6.2	-9999.0	-9999.0	11.11	0.03	-0.01	-9999.0	-9999.0	0
16.150	53.313	6.2	-9999.0	-9999.0	11.29	0.03	0.00	-9999.0	-9999.0	0
16.250	53.641	6.0	-9999.0	-9999.0	11.15	0.03	0.00	-9999.0	-9999.0	0
16.350	53.969	6.1	-9999.0	-9999.0	11.26	0.03	0.01	-9999.0	-9999.0	0
16.450	54.297	6.2	-9999.0	-9999.0	11.47	0.04	0.00	-9999.0	-9999.0	0
16.550	54.625	6.3	-9999.0	-9999.0	11.76	0.04	-0.01	-9999.0	-9999.0	0
16.650	54.953	6.4	-9999.0	-9999.0	11.95	0.03	0.01	-9999.0	-9999.0	0
16.750	55.281	6.2	-9999.0	-9999.0	11.68	0.04	0.01	-9999.0	-9999.0	0
16.850	55.610	6.9	-9999.0	-9999.0	10.66	0.05	0.01	-9999.0	-9999.0	0
16.950	55.938	6.6	-9999.0	-9999.0	10.31	0.04	0.00	-9999.0	-9999.0	0
17.050	56.266	6.6	-9999.0	-9999.0	10.44	0.04	0.00	-9999.0	-9999.0	0
17.150	56.594	6.5	-9999.0	-9999.0	10.51	0.03	0.00	-9999.0	-9999.0	0
17.250	56.922	6.7	-9995.0	9999.0	10.25	0.04	0.00	-9999.0	9999.0	0
17.350	57.250	6.7	-9999.0	-9999.0	10.70	0.05	0.00	-9999.0	9999.0	0
17.450	57.578	6.7	-9999.0	-9995.0	10.71	0.06	0.00	-9999.0	-9999.0	0
17.550	57.906	6.9	-9991.0	-9999.0	10.84	0.06	0.00	-9999.0	-9999.0	0
17.650	58.234	6.4	-9999.0	-9999.0	11.64	0.05	0.00	-9999.0	-9999.0	0
17.750	58.563	5.1	-9995.0	-9997.0	12.69	0.07	0.01	-9999.0	-9999.0	0
17.850	58.891	5.2	-9999.0	-9999.0	12.49	0.07	0.02	-9999.0	-9999.0	0
17.950	59.219	6.8	9999.0	-9994.0	12.24	0.09	0.02	-9999.0	-9999.0	0
18.050	59.547	5.1	-9999.0	-9998.0	10.81	0.08	0.02	-9999.0	-9999.0	0
18.150	59.875	6.1	-9994.0	-9999.0	10.65	0.03	0.02	-9999.0	-9999.0	0
18.250	60.203	5.2	-9999.0	-9999.0	10.42	0.06	0.01	-9999.0	-9999.0	0
18.350	60.531	5.5	9999.0	-9993.0	9.55	0.09	-0.01	-9999.0	-9999.0	0
18.450	60.859	5.2	-9999.0	-9999.0	8.94	0.03	0.01	-9999.0	-9999.0	0
18.550	61.187	5.2	-9999.0	-9999.0	10.02	0.11	0.02	-9999.0	-9999.0	0
18.650	61.515	5.1	6.7	6.3	11.05	0.07	-0.01	2.79	5.3	5
18.750	61.844	6.4	-9991.0	-9999.0	11.26	0.01	-0.02	-9999.0	-9999.0	0
18.850	62.172	6.5	-9999.0	-9999.0	11.46	0.04	-0.02	-9999.0	-9999.0	0
18.950	62.500	6.6	-9991.0	-9999.0	11.56	0.05	-0.03	-9999.0	-9999.0	0
19.050	62.828	6.1	-9999.0	-9999.0	11.99	0.05	-0.02	-9999.0	-9999.0	0
19.150	63.156	5.1	-9999.0	-9999.0	11.97	0.05	-0.03	-9999.0	-9999.0	0
19.250	63.484	5.7	-9999.0	-9999.0	12.23	0.05	-0.04	9999.0	9999.0	0
19.350	63.812	5.6	-9999.0	-9999.0	12.54	0.05	-0.04	-9999.0	-9999.0	0
19.450	64.140	5.4	-9993.0	-9999.0	12.05	0.05	-0.03	-9999.0	-9999.0	0
19.550	64.468	5.1	-9999.0	-9999.0	11.80	0.03	-0.03	-9999.0	-9999.0	0
19.650	64.796	6.5	9999.0	-9999.0	11.26	0.07	-0.03	-9999.0	-9999.0	0
19.750	65.124	5.0	-9999.0	-9999.0	11.51	0.07	-0.03	-9999.0	9999.0	0
19.850	65.453	5.7	-9999.0	-9999.0	12.05	0.05	-0.03	9999.0	9999.0	0
19.950	65.781	5.4	-9995.0	-9999.0	12.50	0.05	-0.01	9999.0	-9999.0	0
20.050	66.109	5.2	-9999.0	-9999.0	12.07	0.04	-0.03	9999.0	-9999.0	0
20.150	66.437	6.2	-9995.0	9999.0	10.49	0.06	-0.03	-9999.0	-9999.0	0
20.250	66.765	5.6	-9995.0	9999.0	9.15	0.08	-0.03	-9999.0	-9999.0	0
20.350	67.093	5.4	9999.0	-9999.0	8.88	0.04	-0.02	-9999.0	-9999.0	0
20.450	67.422	5.4	9999.0	-9993.0	9.36	0.04	-0.02	-9999.0	-9999.0	0
20.550	67.750	5.3	-9999.0	-9999.0	9.71	0.05	0.02	-9999.0	-9999.0	0
20.650	68.078	5.8	-9999.0	-9999.0	10.55	0.09	0.02	-9999.0	-9999.0	0
20.750	68.406	6.3	-9995.0	-9999.0	10.64	0.04	-0.01	9999.0	-9999.0	0
20.850	68.734	6.3	-9997.0	-9999.0	11.09	0.01	-0.02	9999.0	-9999.0	0
20.950	69.062	6.9	-9999.0	-9999.0	10.84	0.05	-0.02	-9999.0	-9999.0	0
21.050	69.391	6.9	-9995.0	-9999.0						

Job No: 05-0106-1258-5873
DAT File: 1210207.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Si(OH)4 (mg/L)	Col-22 Si(OH)4 (µg/L)	Col-23 Si(OH)4 (µg/L)	Col-24 Qc	Col-25 Fr (%)	Col-26 Rf	Col-27 Ic	Col-28 SC (%)	Col-29 Isotherm (Zone)
21.350	69.717	4.9	-9999.0	-1099.0	10.95	0.05	-0.01	-9999.0	-1997.0	0
21.350	70.046	4.8	-9997.0	-9999.0	10.71	0.11	-0.01	-1099.0	-9999.0	0
21.469	70.374	4.3	-9995.0	-9999.0	10.51	0.04	-0.00	-9999.0	-9999.0	0
21.550	70.701	6.3	-9999.0	-9999.0	10.36	0.04	-0.02	9999.0	-9999.0	0
21.650	71.029	6.1	-9999.0	-9999.0	10.11	0.04	-0.03	9999.0	-9999.0	0
21.750	71.357	5.2	-9995.0	-9999.0	10.15	0.04	-0.02	-9995.0	-9999.0	0
21.850	71.685	5.6	9999.0	-9999.0	9.90	0.06	-0.01	-9999.0	9999.0	0
21.950	72.014	5.9	-9999.0	9999.0	9.62	0.06	-0.03	-9995.0	-9999.0	0
22.050	72.342	6.0	9999.0	9999.0	9.63	0.04	-0.01	9999.0	-9999.0	0
22.150	72.670	5.6	9999.0	9999.0	9.43	0.06	0.01	-9995.0	-9999.0	0
22.250	72.998	5.4	9999.0	-9999.0	9.01	0.01	-0.01	-9999.0	-9999.0	0
22.350	73.326	5.4	-9999.0	-9999.0	8.81	0.04	-0.01	-9999.0	-9999.0	0
22.450	73.654	5.9	-9999.0	-9999.0	9.04	0.06	-0.11	-9999.0	-9999.0	0
22.550	73.982	4.8	9999.0	-9999.0	9.03	0.06	-0.02	-9999.0	-9999.0	0
22.650	74.310	5.3	9999.0	-9999.0	10.46	0.01	-0.02	-9999.0	-9999.0	0
22.750	74.636	5.5	-9995.0	9999.0	10.51	0.03	-0.02	-9999.0	-9999.0	0
22.850	74.965	6.1	-9999.0	9999.0	12.14	0.03	-0.02	-9999.0	-9999.0	0
22.950	75.294	6.0	-9999.0	-9999.0	13.44	0.04	-0.02	-9999.0	-9999.0	0
23.050	75.622	7.1	-9999.0	-9999.0	14.34	0.02	-0.02	-9999.0	-9999.0	0
23.150	75.951	7.2	-9999.0	-9999.0	15.87	0.02	-0.02	-9999.0	-9999.0	0
23.250	76.279	7.5	-9999.0	-9999.0	16.22	0.04	-0.02	-9999.0	-9999.0	0
23.350	76.607	7.4	-9999.0	-9999.0	16.84	0.02	-0.02	-9999.0	-9999.0	0
23.450	76.935	8.4	-9999.0	-9999.0	17.54	0.02	-0.02	-9999.0	-9999.0	0
23.550	77.263	8.5	-9999.0	-9999.0	18.68	0.01	-0.02	-9999.0	-9999.0	0
23.650	77.591	6.1	-9999.0	-9999.0	19.26	0.04	-0.03	-9991.0	-9999.0	0
23.750	77.919	6.9	-9999.0	-9999.0	12.72	0.07	-0.01	-9999.0	-9999.0	5
23.850	78.247	5.1	9999.0	9999.0	10.44	0.03	0.01	2.24	20.7	5
23.950	78.575	7.3	11.3	5.6	10.12	0.57	0.02	2.12	5.0	6
24.050	78.903	8.2	17.5	7.4	15.46	0.43	-0.02	1.59	6.0	6
24.150	79.231	7.8	11.3	6.6	18.57	0.12	-0.02	9919.0	9999.0	6
24.250	79.559	8.3	-9999.0	-9999.0	17.02	0.02	-0.04	-9999.0	-9999.0	6
24.350	79.887	6.6	-9993.0	-9999.0	13.67	0.05	-0.03	2.17	23.4	6
24.450	80.215	7.6	12.6	7.6	14.42	1.04	-0.02	2.34	23.3	6
24.550	80.544	8.6	17.6	12.3	17.13	1.67	-0.02	2.17	17.9	6
24.650	80.872	14.3	24.1	14.1	21.67	1.67	-0.01	1.97	11.1	6
24.750	81.200	15.6	33.0	19.1	25.75	1.15	-0.01	1.87	9.7	6
24.850	81.528	18.4	37.0	21.6	23.44	0.97	-0.01	1.92	10.6	6
24.950	81.856	21.3	35.7	20.8	22.20	1.01	-0.01	1.87	9.5	6
25.050	82.184	20.2	35.5	20.1	20.88	0.71	-0.01	1.90	10.3	6
25.150	82.512	20.0	35.2	20.5	17.01	0.56	-0.01	1.90	11.8	6
25.250	82.840	20.0	37.6	22.0	10.60	1.28	-0.01	1.89	12.7	6
25.350	83.168	21.0	42.9	24.3	10.65	1.20	-0.01	1.90	10.5	6
25.450	83.496	24.6	46.9	27.2	15.75	1.36	-0.01	1.99	11.7	6
25.550	83.825	26.5	50.2	29.0	19.39	1.25	-0.01	1.89	10.2	6
25.650	84.153	24.2	45.0	26.0	23.43	1.25	0.01	1.88	9.9	6
25.750	84.481	25.6	46.6	25.9	16.01	1.26	-0.01	1.94	11.1	6
25.850	84.809	26.9	50.1	28.8	22.67	1.61	-0.01	1.85	9.5	6
25.950	85.137	30.9	52.0	28.7	26.46	1.51	-0.01	1.96	11.5	6
26.050	85.465	30.8	51.0	28.2	23.13	1.37	-0.01	2.02	41.6	6
26.150	85.793	20.4	32.0	6.8	27.76	1.33	-0.01	2.03	47.5	6
26.250	86.122	17.0	28.5	6.2	20.39	4.09	-0.02	2.05	48.2	6
26.350	86.450	18.8	25.4	7.8	25.74	4.18	-0.04	2.00	58.6	6
26.450	86.778	25.3	29.7	5.7	27.34	5.05	-0.06	2.00	53.6	6
26.550	87.106	32.5	27.8	5.2	25.63	5.34	-0.04	2.01	59.2	6
26.650	87.434	29.6	17.8	5.6	19.39	5.89	-0.02	2.19	25.9	6
26.750	87.761	30.9	18.9	5.8	33.29	2.93	-0.02	1.96	32.0	6
26.850	88.089	24.0	20.4	15.0	43.22	1.16	0.01	1.97	10.0	6
26.950	88.418	16.9	25.0	15.6	54.21	1.20	-0.01	1.95	9.1	6
27.050	88.746	13.1	29.7	20.2	56.34	0.82	-0.01			
27.150	89.074	20.3	36.0	23.3						

Run No.: 95-3508-1258-5873
CPT File: 921CP07.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N(60)Ic (b/ft)	Col-23 N1(60)Ic (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 IcZone (Zone)
27.250	89.402	29.0	34.2	19.3	53.29	0.99	-0.01	1.68	4.6	4
27.350	89.730	28.6	31.1	17.0	45.99	1.33	-0.01	2.55	14.2	5
27.450	90.059	27.1	31.8	17.9	44.54	1.46	-0.01	2.12	16.6	5
27.550	90.386	20.9	37.7	21.2	51.78	1.03	-0.01	1.90	10.4	6
27.650	90.714	20.1	36.0	20.2	59.64	0.51	-0.02	1.16	7.3	6
27.750	91.042	22.8	35.6	20.5	47.36	0.57	-0.01	1.72	5.5	6
27.850	91.370	21.0	35.7	25.0	58.29	0.48	-0.01	1.79	5.3	6
27.950	91.698	21.1	35.4	20.3	59.18	0.50	-0.01	1.75	5.0	6
28.050	92.026	18.2	29.0	16.7	39.93	1.41	-0.02	2.11	16.3	5
28.150	92.354	12.9	34.8	9.2	24.42	4.05	-0.02	2.77	56.3	4
28.250	92.683	12.0	23.5	5.8	16.56	6.91	-0.03	3.05	62.9	3
28.350	93.011	29.1	19.4	5.4	14.86	7.47	-0.04	3.33	65.9	3
28.450	93.339	28.5	19.2	5.3	14.55	7.67	-0.04	3.52	67.2	3
28.550	93.667	25.4	19.8	5.5	15.03	7.52	-0.03	3.12	65.8	3
28.650	93.995	29.7	19.6	5.4	15.21	4.91	-0.03	3.08	63.6	3
28.750	94.323	26.8	16.2	5.0	13.51	7.12	-0.04	3.23	67.2	3
28.850	94.651	25.0	11.4	4.7	12.46	7.46	-0.04	3.16	70.3	3
28.950	94.979	22.7	16.6	5.4	13.26	8.05	-0.04	3.22	74.5	3
29.050	95.307	20.2	15.7	3.9	9.74	7.95	-0.05	3.27	76.2	3
29.150	95.635	17.4	14.2	3.6	8.54	8.54	-0.06	3.33	83.7	3
29.250	95.963	17.4	13.9	3.5	8.13	8.53	-0.04	3.34	86.6	3
29.350	96.291	15.7	13.3	3.3	7.21	7.20	-0.06	3.33	90.3	3
29.450	96.620	16.3	13.4	3.1	7.68	9.02	-0.05	3.37	85.5	3
29.550	96.948	16.0	13.4	3.9	7.34	9.17	-0.04	3.40	89.5	3
29.650	97.276	15.7	11.5	3.3	7.16	9.57	-0.06	3.42	91.5	3
29.750	97.604	16.6	13.8	2.4	7.45	9.17	-0.08	3.39	84.2	3
29.850	97.932	16.4	13.7	1.3	7.49	8.91	-0.06	3.39	87.5	3
29.950	98.260	15.1	11.5	4.2	7.31	6.15	-0.06	3.37	87.3	3
30.050	98.588	15.9	13.7	1.2	7.21	9.31	-0.04	3.38	87.8	3
30.150	98.916	15.5	12.0	3.3	6.93	8.16	-0.06	3.38	88.4	3
30.250	99.244	15.9	14.6	3.7	9.30	8.58	-0.04	3.21	95.1	3
30.350	99.572	20.3	16.9	1.7	9.62	6.43	-0.04	3.21	91.7	3
30.450	99.900	16.1	12.3	3.3	9.34	7.02	-0.05	3.33	93.2	3
30.550	100.228	14.0	11.9	2.7	6.08	7.24	-0.05	3.40	87.4	3
30.650	100.557	13.2	11.4	2.6	5.57	7.15	-0.06	3.42	92.0	3
30.750	100.885	13.3	13.2	2.4	4.89	7.58	-0.06	3.40	97.5	3
30.850	101.213	11.9	10.7	2.0	4.82	7.10	-0.05	3.41	94.3	3
30.950	101.541	12.0	10.9	2.4	4.95	7.21	-0.05	3.47	95.6	3
31.050	101.869	12.4	11.2	2.5	5.28	7.36	-0.04	3.46	94.5	3
31.150	102.197	12.1	11.1	2.4	5.32	7.45	-0.04	3.47	94.1	3
31.250	102.525	11.6	10.7	2.3	4.82	7.55	-0.02	3.49	97.6	3
31.350	102.853	12.1	11.1	2.4	4.98	7.52	0.00	3.47	95.4	3
31.450	103.181	12.4	11.2	2.4	5.14	7.45	0.01	3.46	97.4	3
31.550	103.509	16.3	13.9	2.7	5.95	6.71	0.02	3.26	96.1	3
31.650	103.837	16.5	12.4	2.9	6.96	5.46	0.02	3.29	79.9	3
31.750	104.165	10.7	13.5	2.9	8.11	5.49	0.01	3.27	76.8	3
31.850	104.493	11.4	12.9	3.0	7.59	5.16	-0.04	3.23	95.1	3
31.950	104.822	11.3	13.0	3.0	7.57	5.53	-0.05	3.25	76.9	3
32.050	105.150	7.1	11.5	2.5	6.03	4.90	-0.05	3.35	81.2	3
32.150	105.478	11.9	10.8	2.3	4.32	4.63	-0.03	3.45	94.6	3
32.250	105.806	12.2	11.1	2.4	5.33	6.17	0.00	3.40	89.7	3
32.350	106.134	9.8	11.7	2.6	6.33	5.56	0.11	3.29	82.2	3
32.450	106.462	8.7	12.1	2.8	7.10	4.25	0.03	3.21	75.4	3
32.550	106.790	9.3	11.6	2.5	5.89	5.62	-0.02	3.34	94.4	3
32.650	107.118	11.5	10.5	2.2	4.43	5.70	-0.02	3.40	91.9	3
32.750	107.446	7.5	9.5	1.9	3.99	5.89	0.05	3.39	90.1	3
32.850	107.774	7.2	5.9	1.9	4.05	5.49	0.37	3.47	95.5	[illegible]
32.950	108.102	7.3	9.9	2.0	4.18	5.10	0.05	3.45	94.1	[illegible]
33.050	108.430	7.3	13.0	2.0	4.20	5.25	0.10	3.45	93.9	[illegible]
33.150	108.759	1.7	10.1	2.6	4.36	5.58	0.13	3.46	95.5	[illegible]

Run No. 05-0308-1258 5873
CPT File: [illegible]

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N1(60)Cs (b/ft)	Col-23 N1(60)Cs (b/ft)	Col-24 Qt	Col-25 Fr (%)	Col-26 Hq	Col-27 Ic	Col-28 FC (%)	Col-29 Ic(zone)
33.350	109.587	7.0	10.1	2.0	4.95	6.23	0.16	3.51	100.0	3
33.350	109.415	9.5	9.9	1.8	3.40	6.34	0.22	3.55	100.0	3
33.450	109.743	6.1	9.5	1.7	3.18	6.34	0.26	3.59	100.0	3
33.550	110.071	5.8	9.4	1.6	3.00	6.41	0.35	3.62	100.0	2
33.650	110.398	5.6	9.3	1.6	2.84	6.38	0.40	3.63	102.0	2
33.750	110.727	5.7	9.2	1.6	2.86	6.05	0.41	3.63	102.0	2
33.850	111.055	4.9	9.4	1.7	3.61	5.18	0.35	3.63	102.0	2
33.950	111.383	5.9	10.3	2.0	4.55	4.67	0.25	3.39	88.6	3
34.050	111.712	6.2	10.9	2.2	4.98	5.41	0.11	3.40	85.1	3
34.150	112.039	13.9	12.1	2.6	5.71	6.11	0.09	3.37	87.4	3
34.250	112.367	16.0	14.4	3.2	7.87	6.29	0.08	3.37	78.7	3
34.350	112.695	21.0	16.0	3.7	9.45	6.10	0.11	3.20	73.0	3
34.450	113.024	23.9	17.5	4.1	10.96	6.17	0.13	3.15	69.4	3
34.550	113.352	25.9	19.3	4.5	12.03	7.25	0.01	3.17	70.4	3
34.650	113.680	26.9	19.4	4.6	12.52	6.28	0.01	3.17	68.5	3
34.750	114.008	25.5	19.2	4.5	11.78	7.41	-0.03	3.18	71.5	3
34.850	114.336	24.9	18.8	4.4	11.41	7.26	-0.02	3.19	71.9	3
34.950	114.664	25.8	19.0	4.4	11.90	6.57	0.01	3.14	68.7	3
35.050	114.992	26.3	19.1	4.5	12.13	5.75	0.05	3.13	67.9	3
35.150	115.320	28.3	20.2	4.7	13.06	6.34	0.07	3.10	65.7	3
35.250	115.648	27.8	20.3	4.7	12.86	6.44	0.14	3.11	66.4	3
35.350	115.976	30.5	21.4	5.0	14.20	6.25	0.10	3.07	63.1	3
35.450	116.304	15.5	20.7	4.7	16.21	3.09	0.02	2.84	58.2	4

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GeoTest Inc. - CPT Interpretation
Interpretation Output - Release 1.02 Rev. A - Build 5  Format: SLP (Spanish)
Run No:   05-0108-1758-5873
Job No    05-721
Client    Geophysical Consultants
Project:  Pigeon Point Landfill - Wilmington, Delaware
Site:     CPT-05-007
Location: Pigeon Point
Cone:       10 TON  AC157
CPT Date: 05/04/01
CPT Time: 12:49
CPT File: 721CP07.COR
Reading   (m):          0.020000
Ending    (m):          0.000000
Elevation (m):         -0.010000
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  Water Table (m):                 6.00        (Est)    24.9
  Unit Weight of Water (default)       62.40 pcf
  Averaging Increment (m):         0.30
  Su Rx Used:       15.00        Su/P: Incl:    0.30
  Dr  Method                     (Meyerhof-Peck) - All Soils
  Grain Parameter M:               1.20
  Sand Unit Weights Assigned to Soil Zones
  Silts Calculated Using qc1n
  Clays Calculated Using qt1n-1
```

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Qc (kg/cm²)	Col-11 Phi (deg)	Col-12 Silica Dry	Col 13 Es/Qt	Col-14 Ysat,kN/m³ (est)	Col-15 Su (kg/cm²)	Col 16 OCR
0.030	0.164	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.426	10.0
0.180	0.492	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.505	10.0
0.330	0.820	47.6	46.0	-0.06	2.824	33.7	0.786	10.0
0.480	1.148	48.1	44.0	-0.16	3.284	34.7	0.891	10.0
0.630	1.476	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.863	10.0
0.780	1.804	51.0	44.0	-0.30	2.651	32.9	1.019	10.0
0.930	2.132	47.9	44.0	-0.10	2.940	32.0	1.179	10.0
1.080	2.461	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.004	10.0
1.230	2.789	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.835	10.0
1.380	3.117	46.5	44.0	-0.71	2.869	46.0	1.459	10.0
1.530	3.445	65.8	46.0	-0.28	2.167	94.2	9999.0	-9999.0
1.680	3.773	48.3	42.0	-0.24	3.077	68.5	1.506	10.0
1.830	4.101	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.120	10.0
1.980	4.429	51.7	44.0	-0.24	2.638	84.2	-9999.0	9999.0
2.130	4.757	58.5	44.0	-0.26	2.424	55.4	9999.0	9999.0
2.280	5.085	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.844	10.0
2.430	5.413	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.579	10.0
2.580	5.741	-9999.0	-9999.0	-9999.0	9999.0	9999.0	0.424	6.7
2.730	6.069	44.1	40.0	-0.22	3.118	81.8	1.758	10.0
2.880	6.398	50.1	42.0	-0.28	2.855	75.2	2.241	10.0
3.030	6.726	35.7	40.0	-0.21	3.523	79.8	0.372	10.0
3.180	7.054	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.613	10.0
3.330	7.382	-9999.0	-9999.0	9999.0	9999.0	-9999.0	-9999.0	-9999.0
3.480	7.710	51.8	42.0	-0.24	2.625	111.6	2.320	10.0
3.630	8.038	46.0	40.0	-0.25	2.910	103.1	2.040	10.0
3.780	8.366	52.0	42.0	-0.24	2.743	110.6	2.240	10.0
3.930	8.694	44.0	40.0	-0.26	3.024	103.7	1.293	10.0
4.080	9.022	-9999.0	-9999.0	9999.0	-9999.0	9999.0	1.965	10.0
4.230	9.350	50.8	40.0	-0.20	3.301	98.1	-9999.0	9999.0
4.380	9.678	58.2	44.0	-0.27	2.728	167.4	7.703	10.0
4.530	10.006	-9999.0	-9999.0	9999.0	9999.0	-9999.0	-9999.0	-9999.0
4.680	10.335	57.0	42.0	-0.25	2.459	138.4		

Job No: 06-0305-1258-5873
CPT File: T21CPC1.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Qc (t/m²)	Col-04 Fs (kPa)	Col-05 Rf (%)	Col-06 Pw (kPa)	Col-07 Qt (t/m²)	Col-08 Bq	Col-09 Ic
3.250	10.663	-9999.0	-9999.0	-9999.0	9910.0	-9999.0	0.923	7.1
3.300	10.827	50.0	46.0	-0.32	-9999.0	-9999.0	1.153	10.0
3.450	11.319	92.4	48.0	-0.18	-9999.0	-9999.0	1.385	10.0
3.500	11.483	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.580	4.5
3.600	11.811	50.0	56.0	-0.03	-9999.0	-9999.0	9999.0	-9999.0
3.700	12.139	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.563	3.4
3.800	12.467	35.0	35.0	-0.14	-9999.0	-9999.0	1.565	10.0
3.900	12.795	9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.791	10.0
4.050	13.287	60.0	40.0	0.13	2.785	138.5	-9999.0	-9999.0
4.150	13.615	53.1	45.0	-0.22	2.726	142.9	1.443	10.0
4.250	13.943	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.141	8.1
4.350	14.271	36.6	26.0	0.13	3.553	108.2	1.923	10.0
4.450	14.600	46.0	36.0	-0.17	3.026	139.1	-9999.0	-9999.0
4.500	14.764	49.8	40.0	-0.15	2.833	146.0	-9999.0	-9999.0
4.600	15.092	52.6	40.0	-0.18	2.712	154.4	-9999.0	-9999.0
4.750	15.584	15.0	16.0	-0.17	3.651	114.7	2.034	10.0
4.850	15.912	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.357	8.5
4.950	16.240	-9999.0	-9999.0	-9999.0	-9999.0	1999.0	0.618	2.9
5.050	16.568	21.5	16.0	-0.18	-9999.0	-2999.0	1.831	10.0
5.150	16.896	58.5	28.0	-0.21	1.671	128.6	9999.0	-9999.0
5.250	17.224	32.0	26.0	-0.09	-9999.0	-9999.0	9999.0	9999.0
5.350	17.552	30.0	22.0	-0.05	-9999.0	-9999.0	1.196	5.9
5.450	17.880	30.0	30.0	-0.02	-9999.0	-9999.0	0.859	3.6
5.550	18.208	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.655	2.3
5.600	18.373	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.612	2.1
5.700	18.701	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.556	1.9
5.800	19.029	30.0	30.0	0.00	9999.0	9999.0	0.829	3.0
5.900	19.357	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.736	2.5
6.000	19.685	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.439	1.3
6.100	20.013	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.504	1.6
6.250	20.505	35.0	34.0	-0.10	-9999.0	-9999.0	1.668	7.8
6.350	20.833	10.1	31.0	-0.31	-9999.0	-9999.0	2.145	10.0
6.450	21.162	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.041	10.0
6.500	21.489	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.176	4.2
6.600	21.817	38.0	34.0	-0.06	-9999.0	9999.0	9999.0	-9999.0
6.700	22.145	31.3	34.0	-0.10	-9999.0	9999.0	2.124	9.9
6.850	22.473	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.027	3.3
6.950	22.802	16.3	16.0	-0.09	1.810	140.5	-9999.0	-9999.0
7.050	23.130	28.7	26.0	-0.07	3.456	154.9	-9999.0	9999.0
7.150	23.458	25.2	26.0	-0.14	3.762	145.3	1.496	10.0
7.250	23.786	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.319	10.0
7.350	24.114	61.8	60.0	-0.10	2.430	241.3	-9999.0	-9999.0
7.450	24.442	51.1	28.0	-0.26	2.601	195.2	-9999.0	-9999.0
7.550	24.770	9999.0	9999.0	9999.0	9999.0	9999.0	0.845	2.2
7.650	25.098	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.647	5.4
7.750	25.426	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.117	8.4
7.850	25.754	31.7	34.0	-0.14	-9999.0	-9999.0	2.025	9.9
7.950	26.082	46.6	26.0	-0.17	3.151	191.9	-9999.0	-9999.0
8.050	26.410	49.5	18.0	-0.35	3.803	201.2	5.412	10.0
8.150	26.739	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.022	8.6
8.250	27.067	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.298	3.5
8.350	27.395	30.0	30.0	0.00	-9999.0	-9999.0	0.355	2.1
8.400	27.723	51.2	34.0	-0.02	-9199.0	-9999.0	9999.0	-9999.0
8.500	28.051	-9999.0	-9999.0	-9999.0	-9199.0	-9999.0	1.326	3.6
8.650	28.379	65.7	40.0	-0.25	2.342	274.7	-9999.0	9999.0
8.750	28.707	-9999.0	-9999.0	-9999.0	-9999.0	-9199.0	2.206	7.0
8.850	29.035	33.0	34.0	-0.11	-9999.0	-9199.0	2.516	9.2
8.950	29.363	46.0	36.0	-0.22	1.207	197.7	1.994	10.0
9.050	29.691	-9999.0	9999.0	-9999.0	9999.0	-9999.0	2.145	7.1
9.150	30.019	9999.0	-9999.0	-9999.0	9999.0	9999.0	0.883	2.7

Run No: CS-0108-1250-5873
CPT File: 7210707.CPT

Col 01 Depth (m)	Col-02 Depth (ft)	Col-03 Qc (t)	Col-31 Phi (deg)	Col-32 Strain Par	Col-33 Ic/qL	Col-34 Young's (t/sf)	Col-35 Ru (t/sf)	Col 36 OCR
9.250	30.347	40.4	16.0	0.14	1.537	180.4	5.284	10.0
9.360	30.675	38.4	16.0	-0.16	-9999.0	9999.0	2.103	7.7
9.460	31.004	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.823	1.7
9.560	31.332	38.0	38.0	0.30	9999.0	-9999.0	1.151	2.7
9.660	31.660	36.0	37.0	-0.05	-9999.0	-9999.0	1.660	4.5
9.760	31.988	38.0	32.0	-0.06	-9999.0	-9999.0	1.972	3.6
9.860	32.316	40.0	33.0	-0.02	-9999.0	-9999.0	2.299	3.7
9.960	32.644	38.0	36.0	0.01	-9999.0	-9999.0	1.941	2.9
10.060	32.972	40.0	33.0	0.04	-9999.0	-9999.0	2.015	2.9
10.160	33.300	38.0	36.0	0.01	-9999.0	-9999.0	1.939	2.2
10.260	33.628	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.970	6.3
10.360	33.956	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.282	7.0
10.460	34.284	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.368	10.0
10.560	34.612	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.503	8.0
10.660	34.940	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.564	8.9
10.760	35.269	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.206	6.5
10.860	35.597	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.220	6.5
10.960	35.925	44.4	36.0	-0.01	3.879	210.3	3.904	10.0
11.060	36.253	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.693	3.5
11.160	36.581	-9999.0	9999.0	-9999.0	-9999.0	9999.0	1.609	2.9
11.260	36.909	38.0	32.0	0.09	-9999.0	-9999.0	1.811	4.0
11.360	37.237	36.0	32.0	-0.15	9999.0	-9999.0	1.095	2.0
11.460	37.565	32.9	34.0	0.10	-9999.0	-9999.0	2.410	8.0
11.560	37.893	33.9	34.0	0.10	-9999.0	-9999.0	2.926	5.4
11.660	38.221	36.0	32.0	-0.11	9999.0	-9999.0	2.963	5.4
11.760	38.549	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.553	3.7
11.860	38.877	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.081	5.6
11.960	39.206	50.1	38.0	-0.16	1.043	215.3	-9999.0	-9999.0
12.060	39.534	-9999.0	9999.0	-9999.0	-9999.0	9999.0	1.303	10.0
12.160	39.862	46.5	36.0	-0.19	1.114	720.1	1.150	10.0
12.260	40.190	-9999.0	-9999.0	-9999.0	-9999.0	-9812.0	1.939	10.0
12.360	40.518	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.766	2.5
12.460	40.846	51.0	34.0	0.14	-9999.0	9999.0	1.150	10.0
12.560	41.174	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.891	3.7
12.660	41.502	54.1	38.0	-0.22	2.828	217.7	-9999.0	-9999.0
12.760	41.830	59.8	46.0	0.17	-9999.0	9999.0	3.462	10.0
12.860	42.158	49.1	38.0	0.15	1.022	217.4	-9999.0	-9999.0
12.960	42.486	-9999.0	9999.0	-9999.0	9999.0	-9999.0	2.999	8.1
13.060	42.814	51.1	38.0	-0.16	1.010	244.8	-9999.0	-9999.0
13.160	43.143	39.4	36.0	-0.24	-9999.0	-9999.0	3.436	10.0
13.260	43.471	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.526	3.1
13.360	43.799	30.0	38.0	0.21	-9999.0	-9999.0	1.184	2.2
13.460	44.127	35.0	40.0	0.06	-9999.0	-9999.0	1.115	2.0
13.560	44.455	30.0	38.0	0.00	9999.0	-9999.0	1.492	2.9
13.660	44.783	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.571	3.0
13.760	45.111	36.9	34.0	-0.13	-9999.0	-9999.0	1.178	4.3
13.860	45.439	34.7	38.0	-0.17	2.816	252.3	-9999.0	-9999.0
13.960	45.767	30.0	32.0	-0.09	-9999.0	-9999.0	2.110	4.3
14.060	46.095	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.601	3.4
14.160	46.423	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.763	5.4
14.260	46.751	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	2.525	8.2
14.360	47.079	32.7	34.0	-0.12	-9999.0	-9999.0	2.744	7.1
14.460	47.408	30.0	32.0	-0.08	-9999.0	-9999.0	1.570	4.2
14.560	47.736	31.8	32.0	-0.07	-9999.0	-9999.0	9999.0	-9999.0
14.660	48.064	30.0	32.0	-0.11	-9999.0	-9999.0	2.392	4.9
14.760	48.392	30.0	32.0	-0.10	-9999.0	-9999.0	2.303	5.3
14.860	48.720	57.6	38.0	-0.06	2.135	287.9	-9999.0	-9999.0
14.960	49.049	51.1	35.0	0.20	1.047	258.1	-9999.0	-9999.0
15.060	49.377	53.9	38.0	0.22	2.605	249.2	9999.0	-9999.0
15.160	49.705	57.6	38.0	0.07	2.743	292.4	-9999.0	-9999.0

Job No: 05-0108-1256-5872
CPT File: T1CP01.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dr (%)	Col-31 Phi (deg)	Col-32 Strain Fac	Col-33 Rf/qc	Col-34 Youngs (psf)	Col-35 Su (psf)	Col-36 OCR
15.250	50.032	46.1	38.0	0.38	3.060	258.2	-9959.0	-9999.0
15.350	50.360	47.1	41.0	0.53	1.627	218.5	-9959.0	-9999.0
15.450	50.688	30.0	32.0	0.26	-9999.0	-9999.0	-9959.0	-9999.0
15.550	51.016	30.0	32.0	0.23	-9999.0	-9999.0	9959.0	-9999.0
15.650	51.345	30.0	32.0	0.26	-9999.0	-9999.0	-9999.0	-9999.0
15.750	51.673	30.0	32.0	0.26	-9999.0	-9999.0	-9959.0	-9999.0
15.850	52.001	30.0	30.0	0.26	-9999.0	-9999.0	-9959.0	9999.0
15.950	52.329	30.0	30.0	0.26	-9999.0	-9999.0	-9959.0	9999.0
16.050	52.657	30.0	30.0	0.26	-9999.0	-9999.0	-9959.0	-9999.0
16.150	52.985	30.0	30.0	0.26	-9999.0	-9999.0	-9959.0	-9999.0
16.250	53.313	30.0	30.0	1.22	9999.0	-9999.0	-9999.0	-9999.0
16.350	53.641	30.0	30.0	0.23	9999.0	-9999.0	-9999.0	-9999.0
16.450	53.969	30.0	30.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
16.550	54.297	30.0	30.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
16.650	54.625	30.0	30.0	0.27	9999.0	9999.0	-9999.0	-9999.0
16.750	54.953	30.0	30.0	0.23	9999.0	9999.0	-9999.0	-9999.0
16.850	55.281	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
16.950	55.610	30.0	30.0	0.25	-9999.0	-9999.0	-9999.0	-9999.0
17.050	55.938	30.0	30.0	0.27	-9999.0	-9999.0	-9999.0	-9999.0
17.150	56.266	30.0	30.0	0.26	9999.0	9999.0	-9999.0	-9999.0
17.250	56.594	30.0	30.0	0.23	9999.0	9999.0	-9999.0	-9999.0
17.350	56.922	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
17.450	57.250	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
17.550	57.578	30.0	30.0	0.23	-9999.0	-9999.0	9999.0	-9999.0
17.650	57.906	30.0	30.0	0.24	-9999.0	-9999.0	9999.0	-9999.0
17.750	58.234	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	9999.0
17.850	58.562	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
17.950	58.890	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	9999.0
18.050	59.218	30.0	30.0	0.23	-9999.0	-9999.0	9999.0	9999.0
18.150	59.547	30.0	30.0	0.23	-9999.0	-9999.0	9999.0	9999.0
18.250	59.875	30.0	30.0	0.23	-9999.0	-9999.0	9999.0	9999.0
18.350	60.203	30.0	30.0	0.23	-9999.0	-9999.0	9999.0	9999.0
18.450	60.531	30.0	30.0	0.24	-9999.0	-9999.0	9999.0	-9999.0
18.550	60.859	30.0	30.0	0.22	-9999.0	9999.0	9999.0	-9999.0
18.650	61.187	30.0	30.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
18.750	61.515	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
18.850	61.843	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
18.950	62.171	30.0	30.0	0.22	-9999.0	-9999.0	9999.0	9999.0
19.050	62.499	30.0	30.0	0.23	-9999.0	-9999.0	9999.0	9999.0
19.150	62.827	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
19.250	63.155	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
19.350	63.483	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
19.450	63.812	30.0	30.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
19.550	64.140	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
19.650	64.468	30.0	30.0	0.27	-9999.0	-9999.0	-9999.0	-9999.0
19.750	64.796	30.0	30.0	0.27	-9999.0	-9999.0	9999.0	-9999.0
19.850	65.124	30.0	30.0	0.22	-9999.0	-9999.0	9999.0	9999.0
19.950	65.452	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
20.050	65.780	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
20.150	66.108	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
20.250	66.436	30.0	30.0	0.27	-9999.0	-9999.0	-9999.0	-9999.0
20.350	66.764	30.0	30.0	0.26	-9999.0	9999.0	-9999.0	-9999.0
20.450	67.092	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
20.550	67.420	30.0	30.0	0.24	9999.0	9999.0	-9999.0	-9999.0
20.650	67.749	30.0	30.0	0.24	-9999.0	-9999.0	9999.0	9999.0
20.750	68.077	30.0	30.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
20.850	68.405	30.0	30.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
20.950	68.733	30.0	30.0	0.25	9999.0	-9999.0	-9999.0	-9999.0
21.050	69.061	30.0	30.0	0.28	-9999.0	9999.0	-9999.0	-9999.0
21.150	69.389	30.0	30.0	0.25	-9999.0	-9999.0	-9999.0	-9999.0

Run No: 15-0108-1258-5876
DFT File: 0210157 003

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-30 De (ft)	Col-31 phi (deg)	Col-32 State Sat	Col-37 Nu/Q	Col-34 Young's (psi)	Col-35 Su (psi)	Col-36 qcR
21 260	69.737	30.0	30.0	0 25	-9999.0	-9999.0	-9999.0	-9999 0
21 150	70.045	30 0	30.0	0.28	-9999.0	-9997.0	-9997.0	-9999 0
21 460	70 373	30.0	30.0	0 28	-9999.0	-9999.0	-9999.0	-9999.0
21 550	70.701	30.0	30.0	0.28	-9999.0	-9997.0	-9999.0	-9999 0
21.650	71 029	30 0	30 0	0.28	-9999.0	-9999.0	-9999 0	9915.0
21 750	71.359	30.0	30.0	0.20	-9997.0	-9999.0	-9999 0	9999 0
21 850	71.685	30.0	30.0	0.29	-9999.0	-9999.0	-9999 0	-9999.0
21 950	72 014	30.0	30.0	0.21	9999.0	-9999.0	-9999 0	-9999 0
22 057	72.342	30.0	30.0	0.28	-9999.0	-1999.0	-9999 0	-9999 0
22 150	72 670	30.0	30 0	0.28	-9999.0	-9999 0	-9999 0	-9999.0
22 250	72.998	30.0	30.0	0.20	-9999.0	-9999.0	-9159 0	-9999.0
22 350	73.326	30.0	30 0	0.28	-9997.0	-9999.0	9159.0	-9999 0
22 450	73.654	30.0	30 0	0.26	-9999 0	9999.0	9915.0	-9999 0
22.550	73.982	30.0	30 0	0.29	-9999 0	9999 0	-9999.0	-9999.0
22 650	74.310	30.0	30.0	0.26	-9999.0	.9999.0	-9999.0	-9999 0
22.750	74 636	30 0	30 0	0.23	-9999 0	-9999.0	-9999.0	-9999.0
22.850	74 966	30.0	30.0	0 26	-9999.0	-9999.0	-9999 0	-9999.0
22.950	75 294	30 0	32 0	0.25	-9999.0	.9999.0	-9999.0	-9999.0
23.050	75 622	30 0	32.0	0 26	-9999.0	-9999.0	-9999 0	-9999.0
23.150	75 951	31 9	32.0	0.25	9915.0	.9991.0	-9999.0	-9999.0
23.250	76 279	32.3	32.0	0 28	9999.0	-9999.0	.1093.0	-9999 0
23 350	76.607	33.4	32.0	0.75	4.289	228.6	-9999.0	9915.0
23.450	76 935	32 9	32.0	1.28	4.318	227.1	-9999.0	9999.0
23 550	77 260	36.5	32.0	0 25	4.101	246.5	-9999 0	9999.0
23.650	77 551	37.1	34.0	0.25	4.063	244.0	-9999.0	-9999.0
23.750	77 919	39.6	32.0	0 25	-9999 0	-9999.0	-1993.0	-9159 0
23.850	78.247	40.0	40.0	0.23	-9999 0	-9995.0	-9999.0	-9999 0
23.950	78.575	38.0	38 0	0.25	-9999.0	9999.0	-9999.0	-9999 0
24 050	78.903	37.7	32.0	0.03	-9999 0	-9915.0	-9999.0	-9999 0
24 150	79.231	36.3	32 0	0.03	4.170	241.2	-9999.0	-9999 0
24 250	79 551	35.4	32 0	0.34	4.251	238 7	-9999.0	-9999 0
24 350	79.887	36.0	32.0	0.29	-1099.0	9999.0	-9999.0	-9999.0
24.450	80.216	10.9	32.0	0 21	-9997.0	-9999 0	239.0	-9999.0	-9159 0
24 550	80.544	36.4	32 0	-0.02	4.258	254 0	-9999.0	-9999.0
24 650	80.872	43.0	34 0	-0 09	3.722	449.0	-9999.0	-9999 9
24 750	81.200	50.9	36 0	-0.12	3.094	460.1	-9999.0	-9999.0
24.850	81.528	65 5	40 0	-0 14	2.630	486.5	-9999.0	-9999.0
24.950	81.856	61.8	42.0	-0.14	2.499	470.3	-9999 1	-9999.0
25 050	82.184	58.2	40 0	-0.14	2.549	441.6	-9999.0	-9999.0
25 150	82.512	69.1	40.0	-0.12	2.572	463.9	-9999 0	-9999 0
25 250	82.840	69.9	40 0	-0.14	2.560	486 7	-9999.0	-9999.0
25 350	83.168	69.3	40 0	-0.16	2.530	570.1	-9999 0	9999.0
25 450	83.496	70.6	40 0	-0.11	2.392	546 9	-9999.0	-9999 0
25 550	84 824	76.5	40 0	-0 10	2.337	517.6	-9997 0	-9999 0
25 650	84.153	76.9	42.0	-0.23	2.285	554.1	-9999.0	-9999.0
25.750	84.481	76.8	40.0	-0 12	2.350	550.5	-9999 0	-9999.0
25.850	84 809	75.9	40.0	-0 16	2.322	569.2	-9999.0	-9999.0
25.950	85 137	77 2	42.0	-0.21	2 329	613 4	-9999.0	-9999.0
26 050	85 465	70.5	42.0	-0.20	2.705	495.4	-9999 0	-9159 0
26 150	85.793	63.4	40 0	-0.15	2.561	-9999.0	5.042	9 3
26.250	86.121	43.9	34.0	-0 17	-9999.0	-9999.0	4.738	7 3
26 350	86.449	-9991.0	-9999.0	-9997 0	-9999 0	-9999.0	5.104	10 0
26.450	86 777	-0999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999 0
26.550	87.105	35.3	32.0	-0 12	9999 0	-9999.0	-9999.0	1.331	4.3
26 650	87 433	-9999 0	9999.0	-9999.0	-9999.0	-9999.0	-9999 0	3.526	5.2
26 750	87.761	-9999.0	-9999.0	-9999.0	-9999 0	-9999 0	7 181	10.0
26 850	88.089	53.3	36 0	-0.20	3.079	358 9	-9999.0	-9999 0
26 950	88.418	66.3	42.0	-0.16	2.643	469.5	-9999.0	-9999 0
27 050	88.746	56.9	40 0	-0.15	2.526	471.0	-9999 0	9999.0
27.150	89.074	67.2	42.0	0 11	2.533	495.8	-9999 0	

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 DT (µ	Col-04 Phi (deg)	Col-05 Gamma Ray	Col-06 Den/Por	Col-07 Young's (psi)	Col-08 Gr (psi)	Col-09 CCL
21.250	69.717	66.5	40.0	-0.17	2.647	476.0	9459.0	-9935.0
21.350	70.045	62.5	38.0	-0.14	2.763	435.0	8795.0	-9999.0
21.450	70.373	61.6	38.0	-0.15	2.817	426.7	-9999.0	-9999.0
21.550	70.701	60.8	40.0	-0.14	2.772	504.6	-9999.0	-9999.0
21.650	71.029	66.5	40.0	0.10	2.512	507.0	-9999.0	-9999.0
21.750	71.357	64.0	40.0	0.06	2.542	503.6	-9999.0	9999.0
21.850	71.686	63.2	40.0	-0.06	2.564	542.5	-9999.0	9999.0
21.950	72.014	62.0	40.0	-0.03	2.554	515.7	-9999.0	-9999.0
22.050	72.342	58.6	38.0	-0.19	2.942	489.8	-9999.0	5.477
22.150	72.670	-9999.0	9999.0	9999.0	-9999.0	-9959.0	-9999.0	-9999.0
22.250	72.998	35.2	32.0	-0.45	-9999.0	-9999.0	-9999.0	0.354
22.350	73.327	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.280
22.450	73.655	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.691
22.550	73.983	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	9999.0	3.873
22.650	74.311	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	9999.0	3.076
22.750	74.639	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.844
22.850	74.967	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.580
22.950	75.295	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	9999.0	2.224
23.050	75.623	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.941
23.150	75.951	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.674
23.250	76.279	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	9999.0	1.494
23.350	76.607	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.331
23.450	76.935	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.191
23.550	77.263	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.078
23.650	77.591	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.000
23.750	77.919	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.955
23.850	78.247	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.943
23.950	78.575	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.964
24.050	78.903	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.016
24.150	79.231	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.096
24.250	79.559	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.202
24.350	79.887	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.329
24.450	80.215	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.444
24.550	80.543	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.537
24.650	80.871	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.597
24.750	81.199	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.619
24.850	81.527	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.599
24.950	81.855	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.543
25.050	82.183	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.464
25.150	82.511	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.384
25.250	82.839	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.324
25.350	83.167	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.294
25.450	83.495	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.294
25.550	83.823	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.324
25.650	84.151	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.384
25.750	84.479	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.464
25.850	84.807	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.543
25.950	85.135	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.599
26.050	85.463	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.619
26.150	85.791	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.597
26.250	86.119	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.537
26.350	86.447	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.444
26.450	86.775	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.329
26.550	87.103	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.202
26.650	87.431	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.078
26.750	87.759	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.971
26.850	88.087	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.894
26.950	88.415	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.858
27.050	88.743	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.871
27.150	89.071	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.931
27.250	89.399	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.031
27.350	89.727	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.161
27.450	90.055	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.307
27.550	90.383	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.454
27.650	90.711	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.584
27.750	91.039	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.684
27.850	91.367	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.744
27.950	91.695	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.764
28.050	92.023	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.744
28.150	92.351	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.684
28.250	92.679	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.584
28.350	93.007	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.454
28.450	93.335	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.307
28.550	93.663	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.161
28.650	93.991	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.031
28.750	94.319	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.931
28.850	94.647	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.871
28.950	94.975	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.858
29.050	95.303	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.894
29.150	95.631	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.971
29.250	95.959	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.078
29.350	96.287	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.202
29.450	96.615	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.329
29.550	96.943	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.444
29.650	97.271	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.537
29.750	97.599	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.597
29.850	97.927	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.619
29.950	98.255	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.599
30.050	98.583	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.543
30.150	98.911	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.464
30.250	99.239	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.384
30.350	99.567	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.324
30.450	99.895	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.294
30.550	100.223	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.294
30.650	100.551	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.324
30.750	100.879	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.384
30.850	101.207	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.464
30.950	101.535	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.543
31.050	101.863	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.599
31.150	102.191	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.619
31.250	102.519	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.597
31.350	102.847	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.537
31.450	103.175	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.444
31.550	103.503	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.329
31.650	103.831	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.202
31.750	104.159	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.078
31.850	104.487	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.971
31.950	104.815	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.894
32.050	105.143	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.858
32.150	105.471	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.871
32.250	105.799	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.931
32.350	106.127	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.031
32.450	106.455	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.161
32.550	106.783	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.307
32.650	107.111	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.454
32.750	107.439	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.584
32.850	107.767	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.684
32.950	108.095	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.744
33.050	108.423	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.764
33.150	108.751	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.744

Run No: 05-SSCE-1758-5813
DFT File: 7220007.DFT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dr (ft)	Col-31 Dip (deg)	Col-32 Mean Dir	Col-33 Ss/gt	Col-34 Young's (psi)	Col-35 Su (psi)	Col-36 OCR
33.250	109.087	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.590	0.9
33.350	109.415	-9999.0	9999.0	-9999.0	-9999.0	9999.0	0.860	0.9
33.450	109.743	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.807	0.9
33.550	110.071	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.951	0.9
33.650	110.399	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.921	0.9
33.750	110.727	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.729	0.7
33.850	111.055	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.815	0.8
33.950	111.383	9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.106	1.0
34.050	111.711	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.247	1.1
34.150	112.039	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.455	1.3
34.245	112.367	9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.659	1.5
34.350	112.695	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.443	2.2
34.450	113.024	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.873	2.6
34.550	113.352	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.116	2.9
34.650	113.680	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.258	3.0
34.750	114.008	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.169	2.9
34.850	114.336	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.934	2.7
34.950	114.664	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.015	2.8
35.050	114.972	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.179	2.9
35.150	115.321	41.5	32.0	-0.24	-9999.0	-9999.0	-9999.0	9999.0
35.250	115.649	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.315	3.0
35.350	115.977	12.3	32.0	-0.24	-9999.0	-9999.0	-9999.0	-9999.0
35.450	116.304	36.6	32.0	-0.11	-9999.0	-9999.0	4.239	3.9

```
CompCPT Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev. A - Build 5  Format: USP Imperial
Run No.   04-0508-1053-5916
Job No:   05-721
Client:   GeoSyntec Consultants
Project:  Pigeon Point Landfill - Wilmington, Delaware
Site:     CPT-15-C08
Location  Pigeon Point
Cone.     20 TON  A3157
CPT Date  05/05/05
CPT Time  09:37
CPT File  121CP03.COM
Position  (m):          0.000000
Casing    (m):          0.000000
Elevation (m):          0.000000
```

Water Table (m):	5.33	(ft)	16.4
Unit Weight of Water (default):	62.40 pcf		
Averaging Increment (m):	0.10		
Su Not Used:	15.00	Su/p' (ncl)	0.30
Dr Method :	Jamiolkowski - All Sands		
State Parameter Ψ:	1.00		
Used Unit Weights Assigned to Soil Zones			
Ic,Qtn Calculated using qcIn			
Vlades Calculated using qcInes			

Col 01 Depth (m)	Col 02 Depth (ft)	Col 03 Elev. (m)	Col 04 Elev (ft)	Col 05 qT (tsf)	Col 06 qE (tsf)	Col 07 fs (tsf)	Col 08 Rf (%)	Col 09 u (psi)	Col 10 Soil (Zone)	Col 11 Soil (Zone)
0.050	0.164	-0.050	-0.164	74.84	74.84	0.30	0.40	4.69	8	-9959.0
0.100	0.492	-0.100	-0.492	65.95	65.95	0.63	1.09	-4.97	6	-9501.0
0.150	0.820	-0.150	-0.820	66.92	66.92	0.37	0.76	2.66	7	7
0.200	1.148	-0.200	-1.148	67.38	67.38	0.54	0.77	-0.67	7	-9919.0
0.250	1.476	-0.250	-1.476	72.26	72.26	0.76	1.02	-4.43	8	6
0.300	1.804	-0.300	-1.804	67.86	67.86	0.63	1.23	-6.67	7	8
0.350	2.133	-0.350	-2.133	68.33	68.33	0.63	1.27	-5.27	7	6
0.400	2.461	-0.400	-2.461	69.69	69.72	0.69	0.89	6.17	8	6
0.450	2.789	-0.450	-2.789	85.98	85.95	0.84	0.97	-0.02	7	4
0.500	3.117	-0.500	-3.117	66.89	66.89	0.48	0.68	-3.71	7	6
0.550	3.445	-0.550	-3.445	23.13	23.13	0.26	0.65	-6.20	6	6
0.600	3.773	-0.600	-3.773	11.85	11.86	0.04	0.30	0.47	4	5
0.650	4.101	-0.650	-4.101	6.10	6.10	0.01	0.26	-5.93	2	4
0.700	4.429	-0.700	-4.429	2.07	2.06	0.01	0.44	5.44	1	3
0.750	4.757	-0.750	-4.757	1.46	1.46	0.01	0.69	8.55	1	4
0.800	5.085	-0.800	-5.085	1.78	1.77	0.01	0.55	15.13	1	5
0.850	5.413	-0.850	-5.413	3.12	3.14	0.01	0.32	2.71	1	5
0.900	5.741	-0.900	-5.741	5.27	5.30	0.03	0.39	0.11	2	6
0.950	6.069	-0.950	-6.069	51.04	51.02	0.18	0.34	-4.60	7	6
1.000	6.398	-1.000	-6.398	39.26	39.30	0.35	0.87	-4.78	6	5
1.050	6.726	-1.050	-6.726	23.54	23.62	0.26	1.06	17.07	7	5
1.100	7.054	-1.100	-7.054	26.03	26.18	0.29	1.11	30.73	6	5
1.150	7.382	-1.150	-7.382	22.40	22.56	0.39	1.75	-16.15	6	4
1.200	7.710	-1.200	-7.710	7.46	7.37	0.17	2.24	15.62	5	3
1.250	8.038	-1.250	-8.038	3.48	3.41	0.01	0.25	-12.60	1	1
1.300	8.366	-1.300	-8.366	3.41	3.56	0.01	0.28	-9.55	1	1
1.350	8.695	-1.350	-8.694	3.81	3.85	0.01	0.26	-9.79	1	1
1.400	9.023	-1.400	-9.023	8.11	8.07	0.03	0.17	-6.52	2	3
1.450	9.351	-1.450	-9.350	26.77	26.74	0.28	0.23	-6.72	7	5
1.500	9.679	-1.500	-9.678	16.17	16.14	0.08	0.44	-5.64	5	5
1.550	10.006	-1.550	-10.006	13.30	13.13	0.11	0.87	6.21	6	5
1.600	10.335	-1.600	-10.335	23.01	22.84	0.22	1.00	13.26		

Run Date: 05-03-16 12:58 SPT
CPT File: 7216738.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
1.250	10.663	-3.350	-10.663	21.92	20.92	0.07	0.33	-1.04	6	5
1.350	10.991	-3.450	-10.991	12.94	12.80	0.10	0.78	-13.33	6	5
1.450	11.319	-3.550	-11.319	8.18	8.12	0.01	0.11	-17.58	5	5
1.550	11.647	-3.650	-11.647	5.06	5.00	0.01	0.17	-8.40	5	1
1.650	11.975	-3.750	-11.975	3.81	3.75	0.01	0.26	-8.32	5	1
1.750	12.303	-3.850	-12.303	4.41	4.33	0.01	0.25	3.72	5	1
1.850	12.631	-3.950	-12.631	16.96	16.90	0.04	0.20	2.42	6	5
1.950	12.959	-4.050	-12.959	21.02	21.00	0.06	0.26	-14.46	7	5
2.050	13.287	-4.150	-13.287	15.84	15.76	0.14	0.89	-18.24	6	5
2.150	13.615	-4.250	-13.615	11.24	11.20	0.12	1.07	-5.79	6	5
2.250	13.943	-4.350	-13.943	24.89	24.85	0.22	0.87	-8.23	7	5
2.350	14.271	-4.450	-14.271	33.70	33.64	0.41	1.21	-17.41	7	5
2.450	14.600	-4.550	-14.600	66.36	66.31	0.79	1.19	-5.26	7	6
2.550	14.928	-4.650	-14.928	69.03	68.97	1.02	1.57	-11.39	7	5
2.650	15.256	-4.750	-15.256	79.03	78.96	1.07	1.35	-15.49	7	6
2.750	15.584	-4.850	-15.584	52.69	52.61	1.21	2.31	-14.64	6	5
2.850	15.912	-4.950	-15.912	33.70	33.61	1.07	3.19	-14.35	5	4
2.950	16.240	-5.050	-16.240	26.06	25.96	0.90	3.46	-22.06	5	4
3.050	16.568	-5.150	-16.568	32.97	32.68	1.02	3.04	-23.07	5	4
3.150	16.896	-5.250	-16.896	43.25	42.90	1.01	2.38	-4.11	6	5
3.250	17.224	-5.350	-17.224	49.12	49.15	1.03	2.20	5.69	6	5
3.350	17.552	-5.450	-17.552	35.93	35.94	1.21	3.36	2.72	5	4
3.450	17.880	-5.550	-17.880	31.63	31.67	1.16	3.69	0.59	5	4
3.550	18.208	-5.650	-18.208	25.11	25.11	0.97	3.87	0.37	5	4
3.650	18.537	-5.750	-18.537	21.11	21.11	0.59	2.72	0.72	5	4
3.750	18.865	-5.850	-18.865	37.52	37.04	0.74	1.99	4.76	6	5
3.850	19.193	-5.950	-19.193	85.25	84.27	0.95	1.17	1.53	8	6
3.950	19.521	-6.050	-19.521	35.29	35.30	1.02	2.87	2.26	6	4
4.050	19.849	-6.150	-19.849	30.61	30.42	0.96	3.16	1.18	5	4
4.150	20.177	-6.250	-20.177	76.15	76.75	0.82	1.06	0.76	8	6
4.250	20.505	-6.350	-20.505	203.34	203.91	1.02	0.50	10.24	8	6
4.350	20.833	-6.450	-20.833	63.66	63.67	0.94	1.50	1.01	7	5
4.450	21.161	-6.550	-21.161	61.16	61.06	1.16	2.71	1.64	6	6
4.550	21.489	-6.650	-21.489	29.96	29.97	1.19	3.96	0.36	6	4
4.650	21.817	-6.750	-21.817	17.89	17.99	0.46	2.56	-0.12	5	4
4.750	22.145	-6.850	-22.145	35.17	35.07	0.61	1.71	-0.25	6	5
4.850	22.473	-6.950	-22.473	41.47	41.59	1.17	2.80	0.95	6	4
4.950	22.802	-7.050	-22.802	95.80	95.81	1.70	1.77	7.19	6	5
5.050	23.130	-7.150	-23.130	11.48	11.69	0.93	7.71	5.53	6	4
5.150	23.458	-7.250	-23.458	35.97	35.99	2.70	2.00	4.00	6	4
5.250	23.786	-7.350	-23.786	26.13	26.15	0.42	1.59	4.60	6	4
5.350	24.114	-7.450	-24.114	50.31	50.34	0.70	1.42	5.07	7	5
5.450	24.442	-7.550	-24.442	47.24	47.27	1.06	2.24	7.55	6	5
5.550	24.770	-7.650	-24.770	35.36	35.39	1.11	3.14	7.19	6	4
5.650	25.098	-7.750	-25.098	32.67	32.71	0.57	1.73	7.41	6	5
5.750	25.426	-7.850	-25.426	16.60	16.64	0.35	2.09	8.64	1	1
5.850	25.754	-7.950	-25.754	155.42	155.48	3.56	1.80	8.87	7	6
5.950	26.082	-8.050	-26.082	53.65	53.70	1.97	3.62	10.62	6	6
6.050	26.410	-8.150	-26.410	18.49	18.72	0.62	3.29	9.67	5	3
6.150	26.739	-8.250	-26.739	10.48	10.54	0.45	4.23	23.81	3	2
6.250	27.067	-8.350	-27.067	74.52	74.91	0.68	0.87	7.27	8	6
6.350	27.395	-8.450	-27.395	32.16	32.20	1.16	3.62	7.66	6	6
6.450	27.723	-8.550	-27.723	39.01	39.04	0.81	2.08	8.68	6	4
6.550	28.051	-8.650	-28.051	16.03	16.08	0.31	1.96	10.91	5	4
6.650	28.379	-8.750	-28.379	8.75	8.65	0.32	3.76	11.37	5	3
6.750	28.707	-8.850	-28.707	17.05	17.05	0.55	3.22	6.77	5	4
6.850	29.036	-8.950	-29.036	30.66	30.68	0.87	2.86	9.49	5	4
6.950	29.364	-9.050	-29.364	27.47	27.51	1.21	4.41	8.85	4	3
7.050	29.692	-9.150	-29.692	60.69	60.74	1.59	2.62	12.10	6	5
7.150	30.019	-9.250	-30.019	16.74	16.79	0.66	3.58	10.14	4	3

Job No: 05-0363.1256-5955
CPT File: 7230PDM.COM

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Incv. (°)	Col-04 Incv. (dir)	Col-05 qc (tsf)	Col-06 qc (MPa)	Col-07 fs (tsf)	Col-08 fs (MPa)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
1.250	10.247	-5.250	-36.069	29.17	35.35	0.65	2.58	17.07	5	5
9.350	10.675	-9.350	-10.505	44.66	44.43	0.84	1.96	6.81	4	5
9.450	31.024	-9.450	-11.006	33.66	31.62	1.05	3.31	11.89	5	4
9.550	31.332	-9.650	-11.312	52.13	52.22	1.05	2.08	6.91	5	5
9.650	31.660	-9.650	-11.642	24.56	24.61	0.68	2.93	10.07	5	4
9.750	31.986	-9.750	-11.968	23.10	21.16	0.50	2.14	13.32	5	4
9.850	32.316	-9.850	-12.306	51.62	51.67	0.95	1.84	10.10	5	5
9.950	32.644	-9.950	-12.646	23.77	20.90	0.06	2.85	21.94	6	4
10.050	32.972	-10.050	-12.972	38.61	36.94	1.00	2.56	29.52	6	5
10.150	33.310	-10.150	-13.300	52.26	53.17	0.70	1.77	12.06	6	4
10.250	33.628	-10.250	-13.628	36.14	38.38	1.06	2.61	6.89	6	4
10.350	33.956	-10.350	-13.956	61.91	61.94	1.06	2.19	6.41	5	5
10.450	34.284	-10.450	-14.284	63.93	63.79	1.79	3.55	15.61	5	5
10.550	34.612	-10.550	-14.612	55.04	53.71	1.10	3.99	14.73	6	5
10.650	34.941	-10.650	-14.941	58.35	58.45	1.11	2.24	14.03	6	5
10.750	35.269	-10.750	-15.269	22.95	20.62	0.81	3.58	15.87	5	5
10.850	35.597	-10.850	-15.597	39.80	39.87	0.49	1.18	16.29	5	5
10.950	35.925	-10.950	-15.925	70.21	70.26	1.54	2.00	16.35	5	5
11.050	36.253	-11.050	-16.253	42.86	42.96	1.07	3.70	14.79	5	5
11.150	36.581	-11.150	-16.581	29.04	29.10	0.52	2.39	14.69	6	4
11.250	36.909	-11.250	-16.909	30.21	30.27	0.60	2.66	13.86	6	4
11.350	37.237	-11.350	-17.237	29.04	29.10	0.88	3.03	13.24	6	4
11.450	37.565	-11.450	-17.565	30.96	31.03	0.90	3.01	13.27	6	4
11.550	37.893	-11.550	-17.893	21.55	21.55	0.70	3.22	12.61	6	3
11.650	38.221	-11.650	-18.221	19.57	19.57	0.80	3.93	14.68	7	3
11.750	38.549	-11.750	-18.549	77.60	77.60	1.49	1.93	17.65	6	5
11.850	38.877	-11.850	-18.877	14.11	14.11	0.80	4.99	25.17	5	3
11.950	39.206	-11.950	-19.206	24.60	24.60	0.91	3.72	16.84	7	4
12.050	39.534	-12.050	-19.534	94.57	94.57	2.20	2.32	18.71	5	5
12.150	39.862	-12.150	-19.862	92.60	92.60	1.83	1.96	19.79	7	5
12.250	40.190	-12.250	-20.190	78.05	78.05	1.54	1.94	19.73	9	5
12.350	40.519	-12.350	-20.519	167.64	167.90	2.85	1.67	20.53	9	6
12.450	40.845	-12.450	-20.846	129.42	129.50	2.93	2.27	16.86	9	5
12.550	41.174	-12.550	-21.174	117.68	117.71	2.64	2.57	16.79	9	5
12.650	41.502	-12.650	-21.502	113.49	113.58	0.31	0.30	19.24	9	6
12.750	41.830	-12.750	-21.830	133.97	134.41	0.29	0.22	19.66	9	6
12.850	42.158	-12.850	-22.158	143.79	144.78	0.25	0.19	19.40	9	6
12.950	42.486	-12.950	-22.486	158.97	144.91	0.80	0.52	19.13	9	6
13.050	42.814	-13.050	-22.814	131.07	131.47	1.35	1.03	20.36	9	6
13.150	43.143	-13.150	-23.143	144.67	144.57	0.45	0.34	21.57	9	-1093.0
13.250	43.471	-13.250	-23.471	130.58	131.67	0.13	0.09	19.97	9	6
13.350	43.799	-13.350	-23.799	72.35	72.64	0.14	0.19	20.16	9	6
13.450	44.127	-13.450	-24.127	64.65	64.74	0.12	0.16	19.79	8	6
13.550	44.456	-13.550	-24.455	83.72	83.93	0.31	0.37	21.53	8	6
13.650	44.784	-13.650	-24.784	103.96	103.67	0.47	0.61	25.48	8	6
13.750	45.112	-13.750	-25.112	106.26	106.36	0.35	0.56	19.12	9	6
13.850	45.439	-13.850	-25.439	203.13	203.40	1.09	0.53	14.47	9	6
13.950	45.767	-13.950	-25.767	116.59	114.62	0.56	0.47	8.67	9	6
14.050	46.095	-14.050	-26.095	153.01	153.53	1.15	0.75	8.39	9	6
14.150	46.423	-14.150	-26.423	194.79	193.83	2.20	1.13	8.59	9	6
14.250	46.751	-14.250	-26.751	252.27	252.79	2.50	0.99	15.08	9	6
14.350	47.079	-14.350	-27.079	237.01	232.96	2.33	1.00	16.16	9	6
14.450	47.408	-14.450	-27.408	236.81	236.59	1.25	0.54	15.37	10	-1095.0
14.550	47.736	-14.550	-27.736	190.63	250.58	0.70	0.27	21.49	8	6
14.650	48.064	-14.650	-28.064	210.17	230.27	1.17	0.61	20.54	8	6
14.750	48.392	-14.750	-28.392	119.92	119.03	0.79	0.65	23.63	9	6
14.850	48.720	-14.850	-28.720	114.70	114.83	0.92	0.63	29.94	9	6
14.950	49.048	-14.950	-29.048	106.59	107.12	0.69	0.53	32.61	8	6
15.050	49.376	-15.050	-29.376	105.49	105.64	1.12	1.06	33.03	8	6
15.150	49.704	-15.150	-29.704	120.60	120.31	0.93	0.81	23.22	9	6

Run ID: 05-0307-1258-5056
CPT File: 121C09R.COM

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
15.250	50.032	-15.230	-50.032	126.69	135.76	0.92	0.73	21.44	5	5
15.300	50.197	-15.280	-50.197	134.51	134.41	0.00	0.52	22.17	5	6
15.350	50.361	-15.330	-50.361	137.57	137.07	0.51	0.64	21.34	5	6
15.400	50.525	-15.380	-50.525	138.16	138.20	0.04	0.33	27.45	5	6
15.450	50.689	-15.430	-50.689	80.94	81.34	0.39	0.49	22.56	4	5
15.500	50.853	-15.480	-50.853	132.97	133.08	0.11	1.01	23.35	5	6
15.550	51.018	-15.530	-51.018	163.57	161.68	1.89	1.04	23.69	5	6
15.600	51.182	-15.580	-51.182	130.37	128.18	2.19	1.71	20.69	5	5
15.650	51.346	-15.630	-51.346	163.96	164.07	0.11	1.28	24.14	5	6
15.700	51.510	-15.680	-51.510	172.72	172.84	0.12	1.17	24.54	5	6
15.750	51.674	-15.730	-51.674	167.52	167.53	0.01	0.87	22.93	5	6
15.800	51.838	-15.780	-51.838	199.19	199.50	0.31	0.36	23.47	5	6
15.850	52.003	-15.830	-52.003	193.65	193.77	0.12	0.23	24.62	5	6
15.900	52.167	-15.880	-52.167	172.80	172.92	0.12	0.31	25.66	5	6
15.950	52.331	-15.930	-52.331	265.98	265.98	0.00	0.00	21.10	5	6
16.000	52.495	-15.980	-52.495	157.09	157.09	0.00	0.00	22.77	5	6
16.050	52.659	-16.030	-52.659	147.10	147.10	0.00	0.16	21.99	5	6
16.100	52.823	-16.080	-52.823	121.70	121.70	0.00	0.17	24.19	5	6
16.150	52.987	-16.130	-52.987	99.07	99.07	0.00	0.27	26.09	5	6
16.200	53.151	-16.180	-53.151	68.94	68.94	0.00	0.74	31.32	5	6
16.250	53.315	-16.230	-53.315	133.96	133.96	0.00	0.56	24.20	5	6
16.300	53.479	-16.280	-53.479	132.17	132.17	0.00	0.73	21.93	5	6
16.350	53.643	-16.330	-53.643	162.22	162.22	0.00	1.16	20.50	5	6
16.400	53.807	-16.380	-53.807	155.71	155.71	0.00	0.10	20.52	5	6
16.450	53.971	-16.430	-53.971	147.16	147.16	0.00	0.52	21.63	5	6
16.500	54.135	-16.480	-54.135	152.59	152.59	0.00	0.07	21.43	5	6
16.550	54.299	-16.530	-54.299	155.62	155.62	0.00	0.03	24.60	5	6
16.600	54.463	-16.580	-54.463	148.26	148.26	0.00	0.02	22.59	5	6
16.650	54.627	-16.630	-54.627	163.66	163.66	0.00	0.01	23.03	5	6
16.700	54.791	-16.680	-54.791	158.29	158.29	0.00	0.00	22.91	5	6
16.750	54.955	-16.730	-54.955	121.96	121.96	0.00	0.00	22.76	5	6
16.800	55.119	-16.780	-55.119	90.20	90.20	0.00	0.00	22.76	5	6
16.850	55.283	-16.830	-55.283	67.39	67.39	0.00	0.00	22.76	5	6
16.900	55.447	-16.880	-55.447	58.40	58.40	0.00	0.00	22.76	5	6
16.950	55.611	-16.930	-55.611	50.05	50.05	0.00	0.00	22.76	5	6
17.000	55.775	-16.980	-55.775	40.41	40.41	0.00	0.00	22.76	5	6
17.050	55.939	-17.030	-55.939	36.16	36.16	0.00	0.00	22.76	5	6
17.100	56.103	-17.080	-56.103	35.02	35.02	0.00	0.00	22.76	5	6
17.150	56.267	-17.130	-56.267	38.05	38.05	0.00	0.00	22.76	5	6
17.200	56.431	-17.180	-56.431	36.75	36.75	0.00	0.00	22.76	5	6
17.250	56.594	-17.230	-56.594	37.71	37.71	0.00	0.00	22.76	5	6
17.300	56.758	-17.280	-56.758	38.33	38.33	0.00	0.00	22.76	5	6
17.350	56.922	-17.330	-56.922	38.33	38.33	0.00	0.00	22.76	5	6
17.400	57.086	-17.380	-57.086	39.02	39.01	0.00	0.00	22.76	5	6
17.450	57.250	-17.430	-57.250	39.35	39.84	0.00	0.00	22.76	5	6
17.500	57.414	-17.480	-57.414	46.15	46.66	0.00	0.00	22.76	5	6
17.550	57.578	-17.530	-57.578	62.41	62.71	0.00	0.00	22.76	5	6
17.600	57.742	-17.580	-57.742	64.21	64.59	0.00	0.00	22.76	5	6
17.650	57.906	-17.630	-57.906	46.26	46.46	0.00	0.00	22.76	5	6
17.700	58.070	-17.680	-58.070	42.46	42.75	0.00	0.00	22.76	5	6
17.750	58.234	-17.730	-58.234	42.90	43.22	0.00	0.00	22.76	5	6
17.800	58.398	-17.780	-58.398	40.47	40.84	0.00	0.00	22.76	5	6
17.850	58.562	-17.830	-58.562	39.36	39.79	0.00	0.00	22.76	5	6
17.900	58.726	-17.880	-58.726	59.61	60.07	0.00	0.00	22.76	5	6
17.950	58.890	-17.930	-58.890	39.74	40.02	0.00	0.00	22.76	5	6
18.000	59.054	-17.980	-59.054	39.77	40.20	0.00	0.00	22.76	5	6
18.050	59.218	-18.030	-59.218	40.77	41.14	0.00	0.00	22.76	5	6
18.100	59.382	-18.080	-59.382	41.76	42.20	0.00	0.00	22.76	5	6

C

Job No.: 05-0308 3256-5956
CPT File: 021CP01.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT Zone	Col-11 N60 (Zone)
21.250	69.717	-21.250	-69.717	45.49	44.65	0.02	0.04	25.47	2	-9999.0
21.350	70.045	-21.350	-70.045	44.05	44.25	0.02	0.05	44.70	8	-9999.0
21.450	70.373	-21.450	-70.373	43.22	43.47	0.04	0.06	41.87	6	-9999.0
21.550	70.702	-21.550	-70.702	41.59	41.82	0.02	0.05	41.31	6	-9999.0
21.650	71.029	-21.650	-71.029	41.71	42.24	0.03	0.05	57.97	8	-9999.0
21.750	71.357	-21.750	-71.357	41.97	42.26	0.07	0.05	65.77	8	-9999.0
21.850	71.685	-21.850	-71.685	41.43	41.77	0.02	0.05	72.25	6	-9999.0
21.950	72.014	-21.950	-72.014	41.94	42.31	0.02	0.05	76.70	9	-9999.0
22.050	72.342	-22.050	-72.342	41.49	41.36	0.02	0.05	79.45	8	-9999.0
22.150	72.670	-22.150	-72.670	40.37	40.78	0.03	0.06	82.24	6	-9999.0
22.250	72.998	-22.250	-72.998	40.85	41.35	0.02	0.05	94.69	6	-9999.0
22.350	73.326	-22.350	-73.326	42.70	43.24	0.02	0.05	107.21	9	-9999.0
22.450	73.654	-22.450	-73.654	45.03	46.76	0.02	0.04	95.21	8	-9999.0
22.550	73.982	-22.550	-73.982	43.57	43.94	0.03	0.06	79.44	6	-9999.0
22.650	74.310	-22.650	-74.310	42.54	42.94	0.02	0.05	66.94	6	-9999.0
22.750	74.639	-22.750	-74.639	41.49	41.93	0.03	0.05	51.46	8	-9999.0
22.850	74.966	-22.850	-74.966	41.97	42.36	0.02	0.05	91.34	6	-9999.0
22.950	75.294	-22.950	-75.294	42.56	42.93	0.02	0.05	85.01	6	-9999.0
23.050	75.622	-23.050	-75.622	41.29	41.67	0.02	0.05	79.83	6	-9999.0
23.150	75.951	-23.150	-75.951	41.66	40.97	0.02	0.05	87.53	9	-9999.0
23.250	76.279	-23.250	-76.279	40.20	40.75	0.02	0.05	103.97	8	-9999.0
23.350	76.607	-23.350	-76.607	38.91	31.37	0.02	0.05	110.29	6	-9999.0
23.450	76.935	-23.450	-76.935	37.74	37.27	0.02	0.05	112.56	2	-9999.0
23.550	77.263	-23.550	-77.263	37.59	38.53	0.02	0.05	114.41	8	-9999.0
23.650	77.591	-23.650	-77.591	37.47	39.03	0.02	0.05	120.59	6	-9999.0
23.750	77.919	-23.750	-77.919	37.45	38.01	0.02	0.05	126.07	2	-9999.0
23.850	78.247	-23.850	-78.247	39.72	38.32	0.02	0.05	135.41	8	-9999.0
23.950	78.575	-23.950	-78.575	38.26	38.99	0.02	0.05	131.47	6	-9999.0
24.050	78.903	-24.050	-78.903	37.84	38.51	0.03	0.07	136.60	6	-9999.0
24.150	79.232	-24.150	-79.232	37.94	36.82	0.02	0.05	136.75	5	-9999.0
24.250	79.560	-24.250	-79.560	30.51	38.86	0.02	0.06	135.73	6	-9999.0
24.350	79.888	-24.350	-79.888	36.11	36.79	0.02	0.06	141.92	6	-9999.0
24.450	80.216	-24.450	-80.216	35.58	36.25	0.02	0.05	142.10	5	-9999.0
24.550	80.544	-24.550	-80.544	35.31	35.30	0.02	0.06	143.25	6	-9999.0
24.650	80.872	-24.650	-80.872	35.32	35.02	0.02	0.06	145.41	6	-9999.0
24.750	81.200	-24.750	-81.200	35.29	36.94	0.02	0.05	145.46	6	-9999.0
24.850	81.528	-24.850	-81.528	35.47	39.77	0.02	0.05	145.79	5	-9999.0
24.950	81.856	-24.950	-81.856	39.42	40.02	0.02	0.04	128.52	8	-9999.0
25.050	82.184	-25.050	-82.184	40.31	40.91	0.02	0.06	127.71	6	-9999.0
25.150	82.512	-25.150	-82.512	40.61	40.56	0.03	0.05	114.24	6	-9999.0
25.250	82.840	-25.250	-82.840	40.19	40.75	0.02	0.05	110.82	2	-9999.0
25.350	83.168	-25.350	-83.168	41.11	41.49	0.02	0.06	123.51	5	-9999.0
25.450	83.496	-25.450	-83.496	42.40	42.93	0.02	0.05	94.60	6	-9999.0
25.550	83.824	-25.550	-83.824	44.04	48.43	0.02	0.04	82.16	8	-9999.0
25.650	84.153	-25.650	-84.153	51.97	56.78	0.02	0.04	65.41	8	-9999.0
25.750	84.481	-25.750	-84.481	54.19	54.55	0.02	0.04	37.55	6	-9999.0
25.850	84.809	-25.850	-84.809	56.85	57.02	0.04	0.04	30.57	8	9999.0
25.950	85.137	-25.950	-85.137	59.57	58.65	0.07	0.03	33.05	9	-9999.0
26.050	85.465	-26.050	-85.465	61.31	61.05	0.02	0.03	36.65	6	-9999.0
26.150	85.793	-26.150	-85.793	67.14	62.75	0.02	0.03	42.76	9	-9999.0
26.250	86.121	-26.250	-86.121	70.24	70.71	0.02	0.03	45.52	8	-9999.0
26.350	86.449	-26.350	-86.449	68.51	66.62	0.02	0.03	31.62	6	9999.0
26.450	86.777	-26.450	-86.777	67.80	62.94	0.03	0.03	35.34	7	9999.0
26.550	87.105	-26.550	-87.105	50.43	60.57	0.02	0.03	31.01	9	-9999.0
26.650	87.433	-26.650	-87.433	55.05	55.10	0.02	0.04	25.92	8	9999.0
26.750	87.761	-26.750	-87.761	49.09	49.23	0.02	0.04	28.54	3	9999.0
26.850	88.089	-26.850	-88.089	51.52	51.58	0.02	0.04	37.77	8	-9999.0
26.950	88.417	-26.950	-88.417	62.45	62.62	0.02	0.03	37.30	8	-9999.0
27.050	88.746	-27.050	-88.746	65.38	89.37	0.02	0.02	40.66	5	-9999.0
27.150	89.074	-27.150	-89.074	66.46	56.89	0.35	0.40	50.75	5	5

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Run No: 55-0108-1258.5756
TPC File: 7215798.038

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (zone)	Col-11 SBTn (zone)
22.350	85.422	-27.250	-89.402	73.82	77.33	0.79	1.07	67.05	8	5
22.400	69.730	-27.350	-89.730	66.15	66.72	0.95	1.42	61.78	7	4
22.450	50.250	-27.450	-90.058	75.70	75.46	0.70	0.96	66.26	8	5
22.500	90.386	-27.550	-90.386	71.96	72.31	0.85	1.16	42.05	8	5
22.550	90.714	-27.650	-90.714	96.86	97.06	1.05	1.08	66.31	8	5
22.600	91.042	-27.750	-91.042	152.13	152.39	1.27	0.83	32.76	9	5
22.650	91.370	-27.850	-91.370	163.38	163.91	1.50	0.92	29.38	9	5
22.700	91.698	-27.950	-91.698	162.59	162.12	2.23	1.36	28.73	9	5
22.750	92.026	-28.050	-92.026	192.01	192.62	2.29	1.21	24.32	9	5
22.800	92.355	-28.150	-92.354	337.46	337.46	3.17	1.00	0.55	10	6
22.850	92.683	-28.250	-92.681	376.98	378.35	3.00	0.80	5.34	10	6
22.900	93.011	-28.350	-93.011	414.76	414.29	2.83	0.70	3.72	10	6
22.950	93.339	-28.450	-93.339	401.03	401.16	2.61	0.69	10.28	10	6
23.000	93.667	-28.550	-93.667	367.42	367.46	1.59	0.54	9.74	10	5
23.050	93.995	-28.650	-93.995	335.92	335.96	2.21	0.67	9.14	10	5
23.100	94.323	-28.750	-94.324	322.73	322.74	2.12	0.66	8.13	10	6
23.150	94.651	-28.850	-94.651	309.86	309.83	2.16	0.69	-5.89	10	6
23.200	94.979	-28.950	-94.979	291.75	291.72	1.69	0.58	-5.06	10	6
23.250	95.307	-29.050	-95.307	301.30	301.76	0.75	0.25	-7.55	10	6
23.300	95.635	-29.150	-95.635	261.04	261.01	0.81	0.31	-5.01	10	6
23.350	95.963	-29.250	-95.963	244.60	244.56	1.13	0.46	-9.24	9	6
23.400	96.291	-29.350	-96.291	261.41	261.35	2.30	0.88	-7.69	10	6
23.450	96.620	-29.450	-96.620	338.22	339.23	2.36	0.70	9.22	10	6
23.500	96.948	-29.550	-96.948	361.48	361.46	2.74	0.81	7.02	10	6
23.550	97.276	-29.650	-97.274	370.71	370.68	2.00	0.76	-5.93	10	5
23.600	97.604	-29.750	-97.604	350.58	350.54	2.40	0.68	-2.35	10	5
23.650	97.932	-29.850	-97.932	295.92	296.57	1.84	0.62	-10.69	9	6
23.700	98.260	-29.950	-98.260	266.49	265.44	1.74	0.66	-12.86	9	6
23.750	98.588	-30.050	-98.584	222.07	221.01	1.44	0.64	-17.95	9	6
23.800	98.916	-30.150	-98.916	241.44	241.38	1.46	0.60	11.21	9	5
23.850	99.244	-30.250	-99.244	259.20	259.23	1.70	0.65	-11.79	9	5
23.900	99.572	-30.350	-99.572	209.76	209.60	1.87	0.89	14.54	8	5
23.950	99.900	-30.450	-99.900	200.43	200.96	2.14	1.06	18.21	8	5
24.000	100.228	-30.550	-100.276	192.86	191.76	2.48	1.29	19.47	8	5
24.050	100.557	-30.650	-100.557	202.78	200.69	3.09	1.54	-19.51	8	5
24.100	100.885	-30.750	-100.885	196.79	195.75	3.74	1.93	19.67	8	5
24.150	101.213	-30.850	-101.213	205.89	206.00	4.05	1.97	19.56	8	5
24.200	101.541	-30.950	-101.541	208.76	208.16	3.91	1.88	-19.69	8	5
24.250	101.869	-31.050	-101.869	189.09	189.80	3.15	1.68	-19.61	8	5
24.300	102.197	-31.150	-102.197	191.16	191.37	2.84	1.49	-19.22	8	5
24.350	102.525	-31.250	-102.525	213.24	213.45	4.22	1.97	18.57	8	5
24.400	102.854	-31.350	-102.854	244.71	244.84	3.63	1.48	19.22	8	5
24.450	103.182	-31.450	-103.183	244.92	244.73	3.83	1.57	-19.92	8	5
24.500	103.510	-31.550	-103.509	225.09	225.01	3.84	1.70	-17.57	8	5
24.550	103.838	-31.650	-103.837	210.48	210.60	3.97	1.89	17.67	8	5
24.600	104.166	-31.750	-104.165	198.97	196.85	3.94	2.00	-17.04	8	5
24.650	104.494	-31.850	-104.493	183.16	181.09	3.91	2.16	-17.46	8	5
24.700	104.822	-31.950	-104.822	164.54	164.46	3.58	2.18	-17.50	8	5
24.750	105.150	-32.050	-105.150	148.65	146.57	3.58	2.44	-17.37	7	5
24.800	105.478	-32.150	-105.478	152.83	152.03	3.34	2.19	-16.72	8	5
24.850	105.806	-32.250	-105.806	161.89	161.80	3.39	2.09	16.08	8	5
24.900	106.134	-32.350	-106.134	164.08	164.50	3.07	1.87	-16.65	8	5
24.950	106.462	-32.450	-106.462	152.34	151.28	3.27	2.16	-16.72	8	5
25.000	106.790	-32.550	-106.790	146.90	149.87	3.04	2.03	-16.61	8	5
25.050	107.118	-32.650	-107.118	137.67	139.74	2.62	2.02	-16.43	8	5
25.100	107.446	-32.750	-107.446	135.39	135.02	2.39	2.01	-16.46	8	5
25.150	107.774	-32.850	-107.774	127.54	127.47	2.25	2.01	-16.29	8	5
25.200	108.102	-32.950	-108.102	115.66	115.98	2.15	2.10	-16.06	8	5
25.250	108.431	-33.050	-108.430	109.45	109.51	2.04	2.08	-16.13	8	5
25.300	108.759	-33.150	-108.759	105.33	106.26	2.08	2.08	-16.13	8	5

Job No: 05-0306-1258-5956
CPT File: 121CPT8.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (ft)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SRT (Zone)	Col-11 SSTn (Zone)
33.250	109.087	-33.250	-109.087	108.54	106.41	0.02	0.02	-15.11	9	-9999.0
33.350	109.415	-33.350	-109.415	109.74	103.68	0.02	0.02	-14.08	9	-9999.0
33.450	109.743	-33.450	-109.743	103.92	104.46	0.02	0.02	-14.11	9	-9999.0
33.550	110.071	-33.550	-110.071	102.02	101.95	0.02	0.02	-13.94	9	-9999.0
33.650	110.199	-33.650	-110.199	105.47	105.41	0.02	0.02	-13.76	9	-9999.0
33.750	110.727	-33.750	-110.727	105.69	105.63	0.03	0.03	-13.52	9	-9999.0
33.850	111.055	-33.850	-111.055	105.41	105.56	0.04	0.04	-13.19	9	-9999.0
33.950	111.383	-33.950	-111.383	107.52	107.45	0.04	0.04	-13.28	9	-9999.0
34.050	111.711	-34.050	-111.711	107.80	107.74	0.04	0.03	-13.55	9	-9999.0
34.150	112.039	-34.150	-112.039	108.75	108.19	0.03	0.03	-12.87	9	-9999.0
34.250	112.367	-34.250	-112.367	108.06	108.00	0.05	0.05	-11.71	9	-9999.0
34.350	112.695	-34.350	-112.695	108.41	108.35	0.07	0.06	-10.44	9	-9999.0
34.450	113.024	-34.450	-113.024	113.04	112.99	0.09	0.08	-10.04	9	-9999.0
34.550	113.352	-34.550	-113.352	117.61	117.56	0.19	0.16	-9.81	9	6
34.650	113.680	-34.650	-113.680	121.44	121.42	0.47	0.40	-9.49	9	6
34.750	114.008	-34.750	-114.008	119.30	119.26	0.54	0.43	-9.24	9	6
34.850	114.376	-34.850	-114.336	118.53	118.49	0.51	0.47	-9.14	9	6
34.950	114.664	-34.950	-114.664	113.97	113.93	0.48	0.42	-8.80	9	6
35.050	114.992	-35.050	-114.992	116.46	116.42	0.39	0.34	-8.73	9	6
35.150	115.320	-35.150	-115.320	119.04	119.00	0.37	0.31	-8.41	9	6

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ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev  A   Build 5  Format: DLP Special
Run No     05-0108-1258-5056
Job No     05-721
Client:    GeoSyntec Consultants
Project    Pigeon Point Landfill - Kalmarvision, Delaware
Site:      CPT-05-006
Location:  Pigeon Point
Cone:       20 TON  AD151
CPT Date:  05/04/05
CPT Time:  09:47
CPT File:  0215004.COR
Velocity   (m)          0.000000
Spacing    (m)          0.050000
Elevation  (m)          0.000000
-- -- ---------- ---------- ---------- --- -- ------ -- ---------- -- --------- --
  Water Table (m):              5.30        (Zero:   10.6
  Unit Weight of Water (default):     62.40 pcf
  Averaging Increment (m)       0.10
  Su Fac Used:      15.00     Nk/Fr Incl:    0.30
  Qc  Method :              Jamiolkowski - All Sands
  Beta Parameter M:             1.20
  Used Unit Weights Assigned to Soil Zones
  Sands Calculated using qcln
  Clays Calculated using qclnsu
```

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 SBT-Su (Zone)	Col-04 SBT-Robt (Zone)	Col-05 Qc/N-k (m/m)	Col-06 Qnet NL (psi)	Col-07 T Stress (tsf)	Col 08 u Stress (tsf)	Col 09 E Stress (tsf)	Col-10 Fs	Col-11 Qtn (psi)
0.050	0.164	6	-9999.0	5.0E-03	120.5	0.010	0.000	0.010	2.00	17.5
0.100	0.492	6	-9999.0	5.0E-03	120.9	0.020	0.000	0.020	2.00	15.8
0.150	0.820	6	1	5.0E-04	121.3	0.030	0.000	0.030	2.00	20.5
0.200	1.148	5	-9999.0	5.0E-03	120.2	0.040	0.000	0.040	2.00	13.9
0.250	1.476	6	2	5.0E-03	120.9	0.050	0.000	0.050	2.00	16.5
0.300	1.804	6	1	5.0E-04	121.3	0.060	0.000	0.060	2.00	11.4
0.350	2.133	6	1	5.0E-04	121.7	0.070	0.000	0.070	2.00	14.0
0.400	2.461	7	2	5.0E-03	122.0	0.080	0.000	0.080	2.00	11.6
0.450	2.789	7	2	5.0E-03	122.4	0.090	0.000	0.090	2.00	15.6
0.500	3.117	7	1	5.0E-04	122.8	0.100	0.000	0.100	2.00	7.4
0.550	3.445	6	6	5.0E-04	123.2	0.110	0.000	0.110	2.00	6.9
0.600	3.773	6	6	5.0E-05	123.6	0.120	0.000	0.120	2.00	2.9
0.650	4.101	5	5	1.0E-07	123.9	0.130	0.000	0.130	1.35	3.1
0.700	4.429	-9999.0	5	1.0E-07	124.3	0.140	0.000	0.140	1.69	3.7
0.750	4.757	3	3	1.0E-07	124.7	0.150	0.000	0.150	1.93	2.8
0.800	5.085	3	3	1.0E-07	125.1	0.160	0.000	0.160	1.78	2.5
0.850	5.413	3	4	1.0E-07	125.4	0.170	0.000	0.170	1.73	2.5
0.900	5.741	4	5	1.0E-07	125.8	0.180	0.000	0.180	1.66	12.7
0.950	6.069	6	6	5.0E-03	126.2	0.190	0.000	0.190	1.64	17.5
1.000	6.398	6	6	5.0E-04	126.6	0.200	0.000	0.200	1.60	9.0
1.050	6.726	7	6	5.0E-05	126.9	0.210	0.000	0.210	1.56	5.4
1.100	7.054	5	5	5.0E-06	127.3	0.220	0.000	0.220	1.52	5.1
1.150	7.382	5	6	5.0E-05	127.7	0.231	0.000	0.231	1.49	6.7
1.200	7.710	5	6	5.0E-05	128.1	0.241	0.000	0.241	1.47	1.6
1.250	8.038	-9999.0	5	1.0E-07	128.4	0.251	0.000	0.251	1.43	1.7
1.300	8.366	-9999.0	5	1.0E-07	128.8	0.261	0.000	0.261	1.41	1.8
1.350	8.694	-9999.0	5	1.0E-07	129.2	0.271	0.000	0.271	1.38	1.9
1.400	9.022	7	6	5.0E-04	129.7	0.281	0.000	0.281	1.35	8.5
1.450	9.350	6	5	5.0E-04	130.1	0.291	0.000	0.291	1.34	9.1
1.500	9.678	5	5	5.0E-05	130.5	0.301	0.000	0.301	1.32	5.5
1.550	10.006	6	6	5.0E-05	130.9	0.311	0.000	0.311	1.31	3.5
1.600	10.335									

Eur No [illegible]
CET File [illegible]

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-03 SBT-PO (Zone)	Col-04 SBT-Rfn (Zone)	Col-05 Perm-e (cm/s)	Col 06 Unit Wt (pcf)	Col 07 T Stress (ksf)	Col-08 V Stress (ksf)	Col-09 U Stress (ksf)	Col-10 Qt	Col-11 Rf (%)
3.250	10.663	7	6	5.0E-05	114.6	0.618	0.001	0.636	1.27	3.2
3.300	10.791	6	5	5.0E-05	114.6	0.611	0.001	0.636	1.25	4.9
3.400	11.319	5	4	1.0E-07	111.4	0.654	0.001	0.656	1.24	3.9
3.500	11.647	4	4	1.0E-07	111.4	0.673	0.000	0.673	1.22	3.8
3.600	11.975	3	3	1.0E-07	111.4	0.692	0.000	0.692	1.20	1.8
3.700	12.301	4	3	1.0E-07	111.4	0.710	0.000	0.710	1.19	1.1
3.850	12.631	6	5	5.0E-05	114.6	0.728	0.000	0.728	1.17	6.2
3.950	12.959	7	5	5.0E-05	117.7	0.747	0.000	0.747	1.16	7.4
4.050	13.287	6	5	5.0E-05	114.6	0.766	0.000	0.766	1.14	6.2
4.150	13.615	6	4	5.0E-05	114.6	0.785	0.500	0.735	1.13	4.3
4.250	13.943	7	5	5.0E-05	117.7	0.804	0.500	0.804	1.12	7.5
4.350	14.271	7	6	5.0E-05	117.7	0.824	0.500	0.624	1.10	10.7
4.450	14.650	6	6	5.0E-05	117.7	0.843	0.500	0.843	1.09	21.2
4.550	14.928	6	6	5.0E-05	117.7	0.862	0.500	0.662	1.08	20.7
4.650	15.256	6	6	5.0E-05	120.5	0.882	0.500	0.682	1.07	19.0
4.750	15.584	6	5	5.0E-05	114.6	0.901	0.500	0.901	1.06	20.5
4.850	15.912	7	6	5.0E-05	114.6	0.920	0.500	0.920	1.04	14.1
4.950	16.240	7	6	5.0E-05	114.6	0.939	0.500	0.939	1.03	12.6
5.050	16.568	7	5	5.0E-05	114.6	0.958	0.500	0.958	1.02	16.5
5.150	16.896	8	6	5.0E-05	114.6	0.976	0.500	0.976	1.01	15.4
5.250	17.224	8	6	5.0E-05	114.6	0.995	0.514	0.995	1.01	15.5
5.350	17.552	8	6	5.0E-05	114.6	1.014	0.524	0.990	1.01	17.2
5.450	17.880	7	5	5.0E-05	114.6	1.033	0.534	0.989	1.00	16.1
5.550	18.208	7	5	5.0E-05	114.6	1.052	0.544	1.007	1.00	17.0
5.650	18.537	7	6	5.0E-05	114.6	1.070	0.554	1.016	0.99	16.2
5.750	18.865	8	6	5.0E-05	114.6	1.089	0.565	1.024	0.99	14.2
5.850	19.193	9	6	5.0E-05	120.5	1.108	0.575	1.033	0.98	21.2
5.950	19.521	8	6	5.0E-05	114.6	1.126	0.585	1.042	0.98	13.5
6.050	19.849	7	6	5.0E-05	114.6	1.145	0.596	1.051	0.98	14.4
6.150	20.177	8	6	5.0E-05	120.5	1.164	0.606	1.060	0.97	16.6
6.250	20.505	9	6	5.0E-05	120.5	1.183	0.616	1.070	0.97	24.9
6.350	20.833	8	6	5.0E-05	117.7	1.202	0.626	1.079	0.96	13.9
6.450	21.161	8	6	5.0E-05	114.6	1.220	0.636	1.088	0.96	14.5
6.550	21.489	7	6	5.0E-05	114.6	1.240	0.647	1.098	0.96	12.1
6.650	21.817	8	6	5.0E-05	114.6	1.260	0.657	1.107	0.95	8.7
6.750	22.145	8	6	5.0E-05	114.6	1.281	0.667	1.116	0.95	10.7
6.850	22.473	8	6	5.0E-05	114.6	1.300	0.677	1.122	0.94	16.7
6.950	22.801	8	6	5.0E-05	114.6	1.318	0.688	1.131	0.94	21.5
7.050	23.130	7	6	5.0E-05	114.6	1.337	0.698	1.139	0.94	12.9
7.150	23.458	7	5	5.0E-05	114.6	1.356	0.708	1.148	0.93	14.6
7.250	23.786	7	5	5.0E-05	114.6	1.375	0.718	1.165	0.93	20.9
7.350	24.114	8	6	5.0E-05	117.7	1.396	0.729	1.165	0.93	26.6
7.450	24.442	8	6	5.0E-05	114.6	1.411	0.739	1.174	0.92	18.1
7.550	24.770	8	6	5.0E-05	114.6	1.442	0.749	1.182	0.92	16.9
7.650	25.098	7	5	5.0E-05	114.6	1.450	0.759	1.191	0.92	12.5
7.750	25.426	7	5	5.0E-05	111.4	1.469	0.770	1.199	0.91	16.1
7.850	25.754	9	6	5.0E-05	124.1	1.488	0.780	1.208	0.91	27.6
7.950	26.082	8	6	5.0E-05	114.6	1.508	0.790	1.216	0.91	24.6
8.050	26.410	6	5	5.0E-05	114.6	1.527	0.800	1.226	0.90	9.0
8.150	26.739	5	4	5.0E-05	111.4	1.546	0.811	1.235	0.90	11.1
8.250	27.067	6	5	5.0E-05	120.5	1.564	0.821	1.243	0.90	17.9
8.350	27.395	7	6	5.0E-05	114.6	1.584	0.831	1.252	0.89	15.4
8.450	27.723	6	5	5.0E-05	114.6	1.603	0.841	1.261	0.89	15.0
8.550	28.051	5	4	5.0E-05	114.6	1.621	0.852	1.270	0.88	7.7
8.650	28.379	5	4	5.0E-05	114.6	1.640	0.862	1.278	0.88	6.2
8.750	28.707	6	6	5.0E-05	114.6	1.659	0.872	1.287	0.87	8.2
8.850	29.035	7	5	5.0E-05	114.6	1.678	0.882	1.295	0.87	14.6
8.950	29.363	7	5	5.0E-05	114.6	1.696	0.893	1.304	0.86	17.6
9.050	29.691	6	4	5.0E-05	114.6	1.715	0.903	1.313	0.87	21.2
9.150	30.019	5	4	5.0E-05	114.6	1.734	0.913	1.321	0.87	10.7

Run No: 06-03CP-1359-5956
CPT File: 121CP06.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-SBTn (Zone)	Col-13 SBT-SBTn (Name)	Col-14 Perm k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col 17 U Stress (tsf)	Col 18 T Stress (tsf)	Col-19 Cn	Col-20 Qtn (n/a)
5.150	10.347	7	8	5.0E-04	114.4	1.753	0.474	1.329	0.87	12.5
5.300	10.674	8	9	5.0E-04	114.4	1.771	0.439	1.338	0.86	11.0
5.450	11.024	7	8	5.0E-04	114.4	1.950	0.444	1.346	0.82	10.3
5.600	11.337	7	8	5.0E-05	114.6	1.809	0.456	1.354	0.84	9.4
5.750	11.660	7	8	5.0E-05	114.6	1.628	0.464	1.364	0.84	8.9
5.850	11.960	7	8	5.0E-05	114.6	1.847	0.474	1.372	0.84	10.5
5.750	12.316	7	8	5.0E-05	114.6	1.866	0.485	1.382	0.85	10.8
5.850	12.644	7	8	5.0E-05	117.7	1.885	0.495	1.390	0.85	10.9
5.950	12.970	7	8	5.0E-04	114.6	1.904	0.505	1.356	0.84	10.5
6.050	13.303	8	9	5.0E-06	114.6	1.923	0.515	1.407	0.84	14.5
6.150	13.728	8	9	5.0E-05	117.7	1.942	0.526	1.416	0.84	18.9
6.250	13.756	6	7	5.0E-04	114.6	1.960	0.536	1.425	0.84	23.5
6.350	14.084	6	7	5.0E-05	114.6	1.979	0.546	1.433	0.83	17.6
6.450	14.412	6	7	5.0E-06	114.6	1.998	0.556	1.442	0.83	12.5
6.550	14.740	6	7	5.0E-04	117.7	2.017	0.567	1.451	0.83	13.0
6.650	14.963	6	7	5.0E-05	114.6	2.035	0.577	1.459	0.83	12.7
6.750	15.169	6	7	5.0E-05	114.6	2.054	0.587	1.468	0.82	12.4
6.850	15.597	6	7	5.0E-04	117.7	2.073	0.597	1.477	0.82	15.8
6.950	15.925	6	7	5.0E-04	117.7	2.092	0.608	1.485	0.82	9.5
7.050	16.253	5	6	5.0E-04	114.6	2.112	0.618	1.494	0.81	11.6
7.150	16.581	5	6	5.0E-06	114.5	2.131	0.628	1.503	0.81	13.7
7.250	16.909	5	6	5.0E-06	114.5	2.150	0.638	1.512	0.81	14.9
7.350	17.237	5	6	5.0E-06	114.6	2.169	0.648	1.520	0.81	15.5
7.450	17.565	5	6	5.0E-06	114.6	2.188	0.659	1.529	0.81	19.1
7.550	17.893	5	6	5.0E-07	114.6	2.207	0.669	1.538	0.80	21.8
7.650	18.221	6	7	5.0E-03	120.9	2.226	0.679	1.547	0.80	18.6
7.750	18.549	6	7	5.0E-04	117.7	2.245	0.690	1.556	0.80	11.8
7.850	18.877	4	5	5.0E-06	114.4	2.264	0.700	1.564	0.80	10.2
7.950	19.201	5	6	5.0E-06	114.6	2.283	0.710	1.573	0.80	15.3
8.050	19.534	5	6	5.0E-06	117.7	2.302	0.721	1.582	0.79	15.0
8.150	19.862	6	7	5.0E-04	114.6	2.321	0.731	1.590	0.79	12.1
8.250	20.190	6	7	5.0E-04	117.7	2.341	0.741	1.599	0.79	24.6
8.350	20.518	6	7	5.0E-03	124.1	2.361	0.751	1.608	0.79	22.9
8.450	20.846	6	7	5.0E-03	124.1	2.382	0.761	1.617	0.79	21.9
8.550	21.174	6	7	5.0E-03	124.1	2.402	0.772	1.626	0.78	25.0
8.650	21.502	6	7	5.0E-03	124.1	2.427	0.782	1.635	0.78	28.1
8.750	21.830	6	7	5.0E-03	124.1	2.443	0.792	1.644	0.78	32.9
8.850	22.158	6	7	5.0E-03	124.1	2.463	0.802	1.653	0.78	31.5
8.950	22.486	6	7	5.0E-03	120.9	2.483	0.813	1.661	0.77	27.3
9.050	22.814	6	7	5.0E-03	124.1	2.503	0.823	1.670	0.77	25.6
9.150	23.142	6	7	5.0E-03	124.1	2.524	0.833	1.680	0.77	17.3
9.250	23.470	6	7	5.0E-03	120.9	2.544	0.843	1.691	0.77	15.1
9.350	23.799	6	7	5.0E-03	120.9	2.564	0.854	1.700	0.76	20.1
9.450	24.127	6	7	5.0E-03	120.9	2.583	0.864	1.710	0.76	22.0
9.550	24.455	6	7	5.0E-03	124.1	2.603	0.874	1.719	0.76	21.8
9.650	24.783	6	7	5.0E-03	124.1	2.624	0.884	1.728	0.76	33.0
9.750	25.111	6	7	5.0E-03	124.1	2.644	0.894	1.738	0.76	33.7
9.850	25.439	6	7	5.0E-03	124.1	2.664	0.904	1.747	0.75	29.4
9.950	25.767	6	7	5.0E-03	124.1	2.685	0.915	1.756	0.75	17.1
10.050	26.095	6	7	5.0E-03	124.1	2.705	0.925	1.766	0.75	43.3
10.150	26.423	6	7	5.0E-03	124.1	2.726	0.936	1.775	0.75	44.5
10.250	26.751	6	7	5.0E-03	124.1	2.746	0.946	1.784	0.74	45.4
10.350	27.079	6	7	5.0E-03	124.1	2.766	0.956	1.793	0.74	46.4
10.450	27.408	6	7	5.0E-03	124.1	2.787	0.966	1.802	0.74	44.1
10.550	27.736	6	7	5.0E-03	124.1	2.807	0.976	1.811	0.74	22.6
10.650	28.064	6	7	5.0E-03	124.1	2.828	0.987	1.820	0.74	27
10.750	28.392	6	7	5.0E-03	124.1	2.848	0.997	1.829	0.73	29
10.850	28.720	6	7	5.0E-03	124.1	2.869	1.007	1.838	0.73	25.2
10.950	29.048	6	7	5.0E-03	120.9	2.889	1.017	1.847	0.73	23.2
11.050	29.376	5	6	5.0E-03	124.1	2.909	1.028	1.856	0.73	
11.150	29.704									

Job No: 65 0108-1234-5954
CPT File: 20250506.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-SBR (Zone)	Col-13 SBT-SBR (Zone)	Col-14 Perm-K (cm/s)	Col-15 Corr WL (psi)	Col-16 T Stress (psi)	Col-17 U Stress (psi)	Col-18 R Stress (psi)	Col-19 OCR	Col-20 SBT (D/EI)
15.250	50.042	9	9	5.5E-02	124.1	2.929	1.892	1.891	0.79	25.1
15.350	50.369	9	9	5.0E-02	124.1	2.955	1.908	1.901	0.73	25.8
15.450	50.689	9	9	4.8E-02	124.1	2.970	1.916	1.912	0.72	26.1
15.550	51.016	9	9	4.8E-02	124.1	2.990	1.929	1.922	0.72	26.7
15.650	51.345	9	9	5.0E-02	120.9	3.009	1.942	1.937	0.72	27.4
15.750	51.673	9	9	5.2E-02	120.9	3.030	1.955	1.948	0.72	28.0
15.850	52.001	9	9	5.4E-02	124.1	3.050	1.968	1.957	0.72	28.7
15.950	52.329	9	9	5.6E-02	124.1	3.071	1.981	1.970	0.72	29.4
16.050	52.657	9	9	5.8E-02	124.1	3.091	1.994	1.981	0.72	30.0
16.150	52.985	9	9	6.0E-02	120.9	3.111	2.007	1.990	0.72	30.7
16.250	53.313	9	9	6.2E-02	120.9	3.131	2.020	2.000	0.72	31.4
16.350	53.641	9	9	6.4E-02	124.1	3.151	2.033	2.013	0.72	32.1
16.450	53.969	9	9	6.6E-02	124.1	3.171	2.046	2.027	0.72	32.8
16.550	54.297	9	9	6.8E-02	124.1	3.191	2.059	2.038	0.72	33.5
16.650	54.625	9	9	7.0E-02	124.1	3.214	2.072	2.049	0.72	34.2
16.750	54.953	9	9	7.2E-02	124.1	3.234	2.085	2.063	0.72	34.9
16.850	55.281	9	9	7.4E-02	124.1	3.255	2.098	2.077	0.72	35.6
16.950	55.610	9	9	7.6E-02	124.1	3.275	2.111	2.093	0.72	36.3
17.050	55.938	9	9	7.8E-02	124.1	3.295	2.124	2.094	0.72	37.0
17.150	56.266	9	9	8.0E-02	124.1	3.316	2.137	2.094	0.72	37.7
17.250	56.594	9	9	8.2E-02	124.1	3.336	2.150	2.094	0.72	38.4
17.350	56.922	9	9	8.4E-02	124.1	3.357	2.163	2.113	0.72	39.1
17.450	57.250	9	9	8.6E-02	124.1	3.376	2.176	2.121	0.72	39.8
17.550	57.578	9	9	8.8E-02	124.1	3.397	2.189	2.133	0.72	40.5
17.650	57.906	9	9	9.0E-02	124.1	3.417	2.202	2.143	0.72	41.2
17.750	58.234	9	9	9.2E-02	124.1	3.437	2.215	2.153	0.72	41.9
17.850	58.562	9	9	9.4E-02	124.1	3.458	2.228	2.163	0.72	42.6
17.950	58.890	9	9	9.6E-02	124.1	3.478	2.241	2.173	0.72	43.3
18.050	59.219	9	9	9.8E-02	124.1	3.498	2.254	2.183	0.72	44.0
18.150	59.547	9	9	1.0E-01	124.1	3.519	2.267	2.193	0.72	44.7
18.250	59.875	9	9	1.0E-01	124.1	3.539	2.280	2.203	0.72	45.4
18.350	60.203	9	9	1.0E-01	124.1	3.560	2.293	2.213	0.72	46.1
18.450	60.531	9	9	1.0E-01	124.1	3.580	2.306	2.224	0.72	46.8
18.550	60.859	9	9	1.0E-01	124.1	3.600	2.319	2.234	0.72	47.5
18.650	61.187	9	9	1.0E-01	120.9	3.620	2.332	2.244	0.72	48.2
18.750	61.515	9	9	1.0E-01	120.9	3.640	2.345	2.254	0.72	48.9
18.850	61.843	9	9	1.0E-01	120.9	3.660	2.358	2.263	0.72	49.6
18.950	62.171	9	9	1.0E-01	120.9	3.680	2.371	2.273	0.72	50.3
19.050	62.499	9	9	1.0E-01	120.9	3.700	2.384	2.282	0.72	51.0
19.150	62.827	9	9	1.0E-01	120.9	3.719	2.397	2.292	0.72	51.7
19.250	63.155	9	9	1.0E-01	120.9	3.739	2.410	2.301	0.72	52.4
19.350	63.483	9	9	1.0E-01	120.9	3.759	2.423	2.311	0.72	53.1
19.450	63.812	9	9	1.0E-01	120.9	3.779	2.436	2.320	0.72	53.8
19.550	64.140	9	9	1.0E-01	120.9	3.799	2.449	2.330	0.72	54.5
19.650	64.468	9	9	1.0E-01	120.9	3.819	2.462	2.340	0.72	55.2
19.750	64.796	9	9	1.0E-01	120.9	3.838	2.475	2.349	0.72	55.9
19.850	65.124	9	9	1.0E-01	120.9	3.858	2.488	2.359	0.72	56.6
19.950	65.452	9	9	1.0E-01	120.9	3.878	2.501	2.368	0.72	57.3
20.050	65.780	9	9	1.0E-01	120.9	3.898	2.514	2.378	0.72	58.0
20.150	66.108	9	9	1.0E-01	120.9	3.918	2.527	2.388	0.72	58.7
20.250	66.436	9	9	1.0E-01	120.9	3.938	2.540	2.397	0.72	59.4
20.350	66.764	9	9	1.0E-01	120.9	3.958	2.553	2.407	0.72	60.1
20.450	67.092	9	9	1.0E-01	120.9	3.977	2.566	2.416	0.72	60.8
20.550	67.420	9	9	1.0E-01	120.9	3.997	2.579	2.426	0.72	61.5
20.650	67.748	9	9	1.0E-01	120.9	4.017	2.592	2.436	0.72	62.2
20.750	68.077	9	9	1.0E-01	120.9	4.037	2.605	2.445	0.72	62.9
20.850	68.405	9	9	1.0E-01	120.9	4.057	2.618	2.455	0.72	63.6
20.950	68.733	9	9	1.0E-01	120.9	4.077	2.631	2.464	0.72	64.3
21.050	69.061	9	9	1.0E-01	120.9	4.096	2.644	2.474	0.72	65.0
21.150	69.389	9	9	1.0E-01	120.9	4.116	2.657	2.484	0.72	65.7

Run No: 04-0316-1209-5956
CPT File 121C218.COR

Col-01 Depth (m)	Col-07 Depth (ft)	Col-12 Sbt-NO (Zone)	Col-13 Sbt-SBN (Zone)	Col-14 Dens-k (cm/s)	Col-15 Unit Wt (pcf)	Col 16 T Scores (tsf)	Col-17 D Scores (tsf)	Col-18 H Stress (tsf)	Col-19 Cn	Col-20 Sbt (kPa)
21.350	69.717	6	5	5.0E-03	120.9	4.135	1.653	2.484	0.63	10.1
21.400	70.045	6	5	5.0E-03	120.9	4.156	1.662	2.495	0.63	10.1
21.450	70.373	6	5	5.0E-03	120.9	4.176	1.671	2.505	0.63	10.1
21.500	70.701	6	5	5.0E-03	120.9	4.196	1.681	2.522	0.63	10.1
21.550	71.029	6	5	5.0E-03	120.9	4.215	1.694	2.542	0.63	10.1
21.600	71.357	7	5	5.0E-03	120.9	4.235	1.704	2.553	0.63	10.1
21.650	71.685	7	5	5.0E-03	120.9	4.255	1.724	2.583	0.63	10.0
21.700	72.014	7	5	5.0E-03	120.9	4.275	1.734	2.600	0.63	9.8
21.750	72.342	7	5	5.0E-03	120.9	4.295	1.745	2.622	0.62	9.9
21.800	72.670	7	5	5.0E-03	120.9	4.315	1.755	2.634	0.62	10.4
21.850	72.998	7	5	5.0E-03	120.9	4.334	1.765	2.649	0.62	10.1
21.900	73.326	7	5	5.0E-03	120.9	4.354	1.775	2.669	0.62	10.0
21.950	73.654	7	5	5.0E-03	120.9	4.374	1.788	2.680	0.62	10.0
22.000	73.982	7	5	5.0E-03	120.9	4.394	1.795	2.698	0.62	10.0
22.050	74.310	7	5	5.0E-03	120.9	4.414	1.805	2.727	0.62	10.1
22.100	74.638	7	5	5.0E-03	120.9	4.434	1.816	2.737	0.62	10.1
22.150	74.966	7	5	5.0E-03	120.9	4.454	1.827	2.747	0.61	10.0
22.200	75.295	7	5	5.0E-03	120.9	4.473	1.837	2.756	0.61	9.8
22.250	75.623	7	5	5.0E-03	120.9	4.493	1.847	2.804	0.61	9.6
22.300	75.951	7	5	5.0E-03	120.9	4.513	1.857	2.835	0.61	9.4
22.350	76.279	7	5	5.0E-03	120.9	4.533	1.868	2.869	0.61	9.4
22.400	76.607	7	5	5.0E-03	120.9	4.553	1.878	2.895	0.61	9.3
22.450	76.935	7	5	5.0E-03	120.9	4.573	1.888	2.904	0.61	9.1
22.500	77.263	7	5	5.0E-03	120.9	4.592	1.898	2.914	0.61	9.1
22.550	77.591	7	5	5.0E-03	120.9	4.612	1.908	2.924	0.61	9.1
22.600	77.919	7	5	5.0E-03	120.9	4.632	1.919	2.933	0.60	9.3
22.650	78.247	7	5	5.0E-03	120.9	4.652	1.929	2.943	0.60	9.2
22.700	78.575	7	5	5.0E-03	120.9	4.672	1.939	2.952	0.60	9.2
22.750	78.903	7	5	5.0E-03	120.9	4.692	1.950	2.962	0.60	9.1
22.800	79.231	7	5	5.0E-03	120.9	4.711	1.960	2.971	0.59	9.0
22.850	79.559	7	5	5.0E-03	120.9	4.731	1.970	2.981	0.60	8.8
22.900	79.887	7	5	5.0E-03	120.9	4.751	1.980	2.992	0.59	8.7
22.950	80.216	6	5	5.0E-03	120.9	4.771	1.991	3.000	0.59	8.6
23.000	80.544	6	5	5.0E-03	120.9	4.791	2.001	3.010	0.60	8.6
23.050	80.872	6	5	5.0E-03	120.9	4.811	2.012	2.619	0.59	8.8
23.100	81.200	6	5	5.0E-03	120.9	4.830	2.021	2.629	0.59	8.9
23.150	81.528	6	5	5.0E-03	120.9	4.850	2.032	2.644	0.59	8.9
23.200	81.856	6	5	5.0E-03	120.9	4.870	2.042	2.654	0.59	8.7
23.250	82.184	6	5	5.0E-03	120.9	4.890	2.052	2.667	0.59	8.9
23.300	82.512	6	5	5.0E-03	120.9	4.910	2.062	2.677	0.59	10.0
23.350	82.840	6	5	5.0E-03	120.9	4.930	2.073	2.961	0.59	10.5
23.400	83.168	6	5	5.0E-03	120.9	4.949	2.083	2.896	0.59	11.0
23.450	83.496	6	5	5.0E-03	120.9	4.969	2.093	2.906	0.59	11.0
23.500	83.824	6	5	5.0E-03	120.9	4.989	2.103	2.915	0.59	11.1
23.550	84.153	6	5	5.0E-03	120.9	5.009	2.113	2.925	0.59	11.1
23.600	84.481	6	5	5.0E-03	120.9	5.029	2.124	2.935	0.59	11.2
23.650	84.809	6	5	5.0E-03	120.9	5.049	2.134	2.954	0.59	11.1
23.700	85.137	6	5	5.0E-03	120.9	5.069	2.144	2.964	0.59	10.6
23.750	85.465	6	5	5.0E-03	120.9	5.088	2.154	2.963	0.59	10.8
23.800	85.793	6	5	5.0E-03	120.9	5.108	2.165	2.973	0.59	10.6
23.850	86.121	6	5	5.0E-03	120.9	5.128	2.175	2.983	0.59	10.3
23.900	86.449	6	5	5.0E-03	120.9	5.148	2.185	2.992	0.58	10.5
23.950	86.777	6	5	5.0E-03	120.9	5.168	2.195	3.002	0.58	10.5
24.000	87.105	6	5	5.0E-03	120.9	5.188	2.206	3.011	0.58	10.6
24.050	87.433	6	5	5.0E-03	120.9	5.207	2.216	3.021	0.58	10.7
24.100	87.761	6	5	5.0E-03	120.9	5.227	2.226	3.031	0.57	10.8
24.150	88.089	6	5	5.0E-03	120.9	5.247	2.236	3.041	0.57	10.9
24.200	88.418	6	5	5.0E-03	120.9	5.267	2.246	3.050	0.57	10.9
24.250	88.746	6	5	5.0E-03	120.9	5.287	2.257	3.060	0.57	10.9
24.300	89.074	6	5	5.0E-03	120.9	5.307	2.267	3.070	0.57	10.9

Run No: 05-0108-1201-1955
CPT File: V201P08.DAT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQ (Zone)	Col-14 Vs-m-k (m/s)	Col 15 Shear Wt (pcf)	Col-16 σ Stress (tsf)	Col-17 u Stress (tsf)	Col 18 σ Stress (tsf)	Col 19 Qt	Col-20 FR (%)
27.750	91.042	6	5	5.0E-03	120.9	5.337	2.247	3.090	0.57	17.6
27.800	91.210	6	5	5.0E-03	117.7	5.347	2.247	3.072	0.57	21.3
27.850	91.378	6	5	5.0E-03	120.9	5.357	2.246	3.079	0.57	15.2
27.900	91.547	6	5	5.0E-03	120.9	5.368	2.246	3.083	0.57	17.9
27.950	91.714	6	5	5.0E-03	120.9	5.406	2.308	3.093	0.57	23.2
28.000	91.942	6	6	5.0E-03	124.1	5.426	2.326	3.100	0.57	25.2
28.050	92.110	6	6	5.0E-03	124.1	5.447	2.329	3.118	0.57	19.1
28.100	92.276	6	6	5.0E-03	120.9	5.467	2.329	3.129	0.57	19.1
28.150	92.026	7	6	5.0E-03	120.9	5.467	2.349	3.125	0.56	17.1
28.200	92.355	10	6	5.0E-03	124.1	5.507	2.359	3.147	0.56	20.3
28.250	92.683	10	6	5.0E-03	127.3	5.527	2.370	3.158	0.56	19.9
28.300	93.011	10	6	5.0E-03	127.3	5.548	2.380	3.169	0.56	20.1
28.350	93.339	10	6	5.0E-03	127.3	5.568	2.390	3.179	0.56	20.1
28.400	93.667	10	6	5.0E-03	127.3	5.588	2.400	3.190	0.56	20.7
28.450	93.995	10	6	5.0E-03	127.3	5.608	2.411	3.200	0.56	20.6
28.500	94.323	10	6	5.0E-03	127.3	5.628	2.421	3.211	0.56	21.5
28.550	94.651	10	6	5.0E-03	127.3	5.648	2.431	3.222	0.56	20.5
28.600	94.979	10	6	5.0E-03	127.3	5.668	2.441	3.232	0.56	20.6
28.650	95.307	10	6	5.0E-03	127.3	5.688	2.452	3.243	0.56	20.1
28.700	95.635	10	6	5.0E-03	127.3	5.708	2.462	3.254	0.55	21.7
28.750	95.963	9	6	5.0E-03	127.3	5.728	2.472	3.264	0.55	19.6
28.800	96.291	10	6	5.0E-03	124.1	5.747	2.482	3.275	0.55	20.3
28.850	96.620	10	6	5.0E-03	127.3	5.768	2.492	3.286	0.55	21.0
28.900	96.948	10	6	5.0E-03	127.3	5.788	2.502	3.296	0.55	21.7
28.950	97.276	10	6	5.0E-03	127.3	5.808	2.513	3.307	0.55	19.2
29.000	97.604	10	6	5.0E-03	127.3	5.828	2.523	3.317	0.55	21.0
29.050	97.932	10	6	5.0E-03	127.3	5.848	2.533	3.328	0.55	17.0
29.100	98.260	10	6	5.0E-03	124.1	5.867	2.544	3.338	0.55	20.0
29.150	98.589	9	6	5.0E-03	124.1	5.887	2.554	3.349	0.55	13.3
29.200	98.917	9	6	5.0E-03	124.1	5.907	2.564	3.360	0.54	16.2
29.250	99.245	10	6	5.0E-03	124.1	5.927	2.574	3.371	0.54	16.6
29.300	99.573	9	6	5.0E-03	120.9	5.947	2.585	3.375	0.54	20.0
29.350	99.900	9	6	5.0E-03	120.9	5.967	2.595	3.385	0.54	18.9
29.400	100.228	9	6	5.0E-03	120.9	5.987	2.605	3.397	0.54	15.9
29.450	100.556	9	6	5.0E-03	120.9	6.007	2.616	3.407	0.54	18.0
29.500	100.884	9	6	5.0E-03	120.9	6.027	2.626	3.417	0.54	17.3
29.550	101.212	9	6	5.0E-03	120.9	6.047	2.636	3.428	0.54	17.3
29.600	101.541	9	6	5.0E-03	120.9	6.067	2.646	3.438	0.54	17.8
29.650	101.869	9	6	5.0E-03	120.9	6.087	2.656	3.448	0.54	16.2
29.700	102.197	9	6	5.0E-03	120.9	6.107	2.667	3.459	0.54	16.7
29.750	102.525	9	6	5.0E-03	120.9	6.127	2.677	3.469	0.54	16.2
29.800	102.853	9	6	5.0E-03	120.9	6.147	2.687	3.479	0.54	15.6
29.850	103.181	9	6	5.0E-03	120.9	6.167	2.697	3.490	0.54	17.4
29.900	103.510	9	6	5.0E-03	120.9	6.187	2.708	3.500	0.54	17.3
29.950	103.838	9	6	5.0E-03	120.9	6.207	2.718	3.510	0.54	17.4
30.000	104.166	9	6	5.0E-03	124.1	6.227	2.728	3.521	0.54	15.1
30.050	104.494	9	6	5.0E-03	124.1	6.247	2.738	3.531	0.54	16.7
30.100	104.822	9	6	5.0E-03	124.1	6.267	2.749	3.542	0.54	15.4
30.150	105.150	9	6	5.0E-03	124.1	6.287	2.759	3.552	0.54	14.5
30.200	105.478	9	6	5.0E-03	124.1	6.307	2.769	3.563	0.54	21.1
30.250	105.806	9	6	5.0E-03	124.1	6.327	2.779	3.573	0.54	22.1
30.300	106.134	9	6	5.0E-03	124.1	6.347	2.790	3.584	0.54	20.5
30.350	106.462	9	6	5.0E-03	124.1	6.367	2.800	3.594	0.54	20.2
30.400	106.790	9	6	5.0E-03	124.1	6.387	2.810	3.605	0.54	21.9
30.450	107.118	9	6	5.0E-03	124.1	6.407	2.820	3.615	0.54	21.7
30.500	107.446	9	6	5.0E-03	124.1	6.427	2.831	3.626	0.54	20.5
30.550	107.774	9	6	5.0E-03	124.1	6.447	2.841	3.636	0.54	21.4
30.600	108.103	9	6	5.0E-03	124.1	6.467	2.851	3.647	0.54	22.1
30.650	108.431	9	6	5.0E-03	124.1	6.487	2.861	3.657	0.54	21.3
30.700	108.759	9	6	5.0E-03	124.1	6.507	2.872	3.668	0.54	20.6

Run No 05-0706-1258-4956
CPT File: 771CP08.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SWI-RO (Zone)	Col-13 SWI-WCn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Cn	Col-20 N60 (n/ft)
33.250	109.067	9	5	5.0E-07	124.1	6.546	2.862	3.465	0.57	20.8
33.350	109.415	9	5	5.0E-07	124.1	6.567	2.892	3.475	0.52	19.9
33.450	109.743	9	5	5.0E-07	124.1	5.567	2.902	3.635	0.52	19.8
33.550	110.071	9	5	5.0E-07	124.1	5.607	2.912	3.615	0.52	19.5
33.650	110.379	9	5	5.0E-02	124.1	6.620	2.973	3.705	0.52	20.2
33.750	110.727	9	5	5.0E-02	124.1	6.648	2.974	3.715	0.52	20.2
33.850	111.055	9	5	5.0E-02	124.1	6.669	2.943	3.725	0.51	20.1
33.950	111.393	9	5	5.0E-02	124.1	6.699	2.953	3.735	0.52	20.6
34.050	111.711	9	5	5.0E-02	124.1	6.729	2.964	3.746	0.52	20.6
34.150	112.039	9	5	5.0E-02	124.1	6.730	2.974	3.756	0.52	20.7
34.250	112.369	9	5	5.0E-02	124.1	6.750	2.984	3.766	0.52	20.7
34.350	112.695	9	5	5.0E-02	124.1	6.770	2.994	3.776	0.51	20.9
34.450	113.074	9	5	5.0E-02	124.1	6.791	3.005	3.786	0.51	21.6
34.550	113.352	9	5	5.0E-02	124.1	6.811	3.015	3.795	0.51	21.5
34.650	113.630	9	5	5.0E-02	124.1	6.831	3.025	3.805	0.51	21.4
34.750	114.008	9	5	5.0E-02	124.1	6.852	3.035	3.814	0.51	22.6
34.850	114.336	9	5	5.0E-02	124.1	6.872	3.040	3.826	0.51	22.7
34.950	114.664	9	5	5.0E-02	124.1	6.892	3.055	3.837	0.51	21.3
35.050	114.992	9	5	5.0E-02	124.1	6.912	3.065	3.847	0.51	22.3
35.150	115.370	9	5	5.0E-02	124.1	6.933	3.076	3.857	0.51	22.8

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GeoTest Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev. A , Build 5  Format: USP Imperial
Run On:    06-0108-1258-0926
Job No:    05-771
Client:    GeoSystems Consultants
Project:   Pigeon Point Landfill - Wilmington, Delaware
Site:      CPT-05 003
Location:  Pigeon Point
Cone:      20 Ton  Adler
CPT Date:  05/04/03
CPT Time:  09:27
CPT File:  C:\CPT\E COR
Northing   (ft):        0.000000
Easting    (ft):        0.000000
Elevation  (ft):        0.000000
```

Water Table (ft):	5.12	Est.:	16.2
Unit Weight of Water (default):	62.40 pcf		
Average Increment (ft)	0.10		
Su Rec Used	15.00	Su/P' (rec):	0.30
Su Method :	Kamiokowski		All Sands
Cone Parameter N:	1.25		

Used Unit Weights Assigned to Soil Zones
Gamma Calculated using qc10
Gamma Calculated using qc10cs

Col-01 Depth (ft)	Col-07 Depth (ft)	Col-21 Su(qc) (lb/ft²)	Col-22 Su(qc)cs (lb/ft²)	Col-23 Su(qc)le (lb/ft²)	Col-24 Qt	Col-25 Ft (%)	Col-24 Bq	Col-27 Qc	Col-28 Qc (ksf)	Col-29 Soil Zone (Zone)
0.050	0.164	25.6	-9999.0	-9999.0	3000.00	2.40	0.00	-9999.0	-1999.0	0
0.100	0.492	10.6	-1000.0	-9999.0	2215.55	1.00	0.00	-9999.0	-9999.0	6
0.150	0.820	30.0	6.1	47.6	950.67	0.16	1.01	1.02	6.4	6
0.200	1.148	41.0	-9999.0	-9999.0	1269.09	0.13	0.00	-9999.0	-9992.0	6
0.250	1.476	14.6	17.7	43.1	819.18	1.02	2.00	1.67	5.1	6
0.300	1.804	15.7	9.6	30.6	486.56	1.20	0.00	1.82	0.5	6
0.350	2.133	70.9	9.1	28.4	377.62	1.27	0.00	1.59	10.1	6
0.400	2.461	29.6	10.3	29.2	604.64	0.89	0.00	1.77	7.5	6
0.450	2.789	41.2	15.2	38.1	813.69	0.98	0.00	1.91	9.6	6
0.500	3.117	31.1	6.3	22.5	269.91	2.95	0.00	1.87	7.6	5
0.550	3.445	14.9	4.7	10.6	111.18	5.70	-0.01	2.00	14.5	5
0.600	3.773	9.1	2.9	5.5	53.91	8.30	2.00	2.28	5.0	5
0.650	4.101	5.6	1.9	3.0	24.05	0.17	-0.03	2.44	21.6	4
0.700	4.429	2.1	0.4	0.2	9.61	0.50	-0.05	2.79	41.0	3
0.750	4.757	1.3	0.5	1.5	4.02	0.85	0.35	3.01	64.3	3
0.800	5.085	1.6	0.6	2.6	4.85	0.62	0.12	2.97	56.4	3
0.850	5.413	2.3	0.8	2.4	6.30	0.56	0.03	2.84	37.1	3
0.900	5.741	4.4	1.4	15.8	14.91	0.50	0.03	2.97	34.7	3
0.950	6.069	20.5	8.2	13.2	142.12	0.15	0.00	3.72	1.0	4
1.000	6.398	20.5	7.9	3.6	104.30	5.84	0.00	3.07	13.6	5
1.050	6.726	16.4	6.3	9.2	69.15	1.10	0.00	3.28	21.5	5
1.100	7.054	11.0	5.8	8.4	63.60	1.13	0.04	3.36	23.1	5
1.150	7.382	13.0	5.4	8.4	55.07	1.78	-0.02	3.44	28.2	5
1.200	7.710	7.5	2.7	4.5	35.39	2.05	0.07	3.75	-9999.0	5
1.250	8.038	2.4	-9999.0	-9999.0	8.31	0.34	-0.14	-9999.0	-9999.0	5
1.300	8.366	2.4	9999.0	-9999.0	8.32	0.15	-0.11	-9999.0	-9999.0	5
1.350	8.694	2.6	9999.0	-9999.0	8.62	0.30	-0.03	2.61	32.7	5
1.400	9.022	5.3	2.1	2.9	16.43	0.40	-0.04	2.84	5.0	5
1.450	9.350	11.6	5.4	7.5	46.76	0.29	-0.01	2.47	5.0	5
1.500	9.678	7.7	4.0	5.5	33.34	0.16	-0.01	2.52	11.5	5
1.550	10.006	6.6	3.7	4.4	21.04	0.34	0.02	2.77	25.2	5
1.600	10.334	10.5	5.1	6.8	35.80	1.01	0.02			

Run No: [illegible]
QC File: [illegible]

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-21 [illegible] (b/ft)	Col-22 [illegible] (b/ft)	Col 23 [illegible] (b/ft)	Col-24 Qc	Col-25 Fs (%)	Col-26 Rq	Col-27 Ic	Col-28 Sc (%)	Col 29 Incone (Zone)
5.250	10.103	11.7	5.6	7.2	37.72	1.14	0.00	2.37	35.2	5
5.365	10.995	5.2	3.2	4.1	19.19	0.87	-0.07	2.54	32.5	5
5.480	11.919	4.6	2.1	2.6	11.40	0.31	-0.05	2.69	34.8	5
5.595	12.847	3.4	9991.0	-9999.0	1.75	0.19	-0.06	-9999.0	-9999.0	0
5.710	13.775	2.2	-9999.0	-9999.0	4.49	0.22	-0.05	-9999.0	-9999.0	0
5.825	14.679	2.5	9999.0	-9999.0	6.19	0.27	-0.03	-9999.0	-9999.0	0
5.940	15.603	7.6	4.0	6.7	22.50	0.62	0.00	2.37	35.4	5
6.055	16.531	8.6	5.4	8.3	29.13	0.87	-0.02	2.35	34.6	5
6.170	17.459	6.9	3.9	6.4	19.56	0.94	0.04	2.32	33.7	5
6.285	18.387	4.8	3.0	3.7	13.26	1.16	0.03	2.68	39.3	4
6.400	19.315	6.8	5.7	6.5	29.69	0.78	-0.01	2.35	34.4	5
6.515	20.243	11.6	7.6	8.6	33.64	1.24	-0.01	2.32	33.2	5
6.630	21.171	22.1	15.1	15.2	77.67	1.20	0.00	2.03	19.1	5
6.745	22.099	22.3	13.6	15.2	74.35	1.59	0.01	2.17	17.5	5
6.860	23.027	20.6	16.2	21.7	89.22	1.14	-0.01	2.06	14.6	5
6.975	23.955	22.1	12.1	16.1	57.20	2.34	-0.01	2.35	20.6	5
7.090	24.883	16.8	5.7	9.3	35.56	0.78	0.01	2.60	35.3	4
7.205	25.811	12.3	7.1	7.6	31.65	3.59	0.01	2.71	42.8	4
7.320	26.739	16.4	8.6	9.0	33.94	3.34	0.02	2.59	39.1	5
7.435	27.666	15.7	9.3	10.2	40.61	2.56	0.00	2.48	39.6	5
7.550	28.594	19.0	11.5	13.0	49.06	2.35	0.00	2.37	35.5	5
7.665	29.522	17.3	9.3	9.5	35.78	3.46	0.00	2.61	35.6	4
7.780	30.450	15.1	5.5	8.6	30.68	3.81	0.01	2.69	39.5	4
7.895	31.378	12.1	7.3	7.0	23.46	3.43	0.00	2.78	43.0	4
8.010	32.306	20.3	6.0	6.3	19.99	2.97	0.00	2.75	43.1	4
8.125	33.234	14.0	8.5	9.0	35.10	2.05	0.00	2.46	36.7	5
8.240	34.162	19.5	17.0	17.1	80.47	1.10	0.00	2.03	23.7	5
8.355	35.090	13.2	9.0	9.5	32.78	2.96	0.00	2.57	34.1	5
8.470	36.018	14.2	8.7	9.0	27.85	3.77	0.00	2.67	39.7	4
8.585	36.946	19.5	15.4	15.4	71.10	1.00	0.00	2.24	24.0	6
8.700	37.874	20.1	10.8	10.8	46.50	0.99	0.00	2.51	30.1	6
8.815	38.802	24.1	10.2	10.0	39.15	1.85	0.00	2.38	29.6	5
8.930	39.730	22.6	10.2	10.2	37.26	2.86	0.00	2.52	33.4	5
9.045	40.657	20.3	12.4	12.7	45.20	3.13	0.00	2.38	30.4	5
9.160	41.585	18.3	8.4	9.2	25.95	2.74	-0.01	2.43	43.2	4
9.275	42.513	8.0	5.2	6.6	15.95	2.77	-0.01	2.44	47.2	4
9.390	43.441	11.0	8.9	8.3	30.01	2.65	0.00	2.46	39.1	5
9.505	44.369	15.8	10.7	10.4	37.69	2.23	0.01	2.36	34.7	5
9.620	45.297	20.1	12.9	12.4	48.20	2.52	0.00	2.42	36.0	5
9.735	46.225	15.1	6.3	7.8	25.49	2.08	0.00	2.49	38.4	5
9.850	47.153	12.5	8.6	8.2	20.39	1.68	0.00	2.54	42.7	5
9.965	48.081	9.5	6.6	6.1	21.43	3.46	0.00	2.29	31.6	5
10.080	49.009	16.5	11.2	10.6	43.92	2.51	0.00	2.43	37.2	5
10.195	49.937	16.7	11.5	10.4	39.07	2.88	0.00	2.44	38.1	4
10.310	50.865	15.6	9.4	8.8	28.02	3.28	0.00	2.65	39.2	5
10.425	51.793	11.6	8.3	7.5	20.25	3.41	0.00	2.67	41.6	5
10.540	52.721	14.7	5.7	6.5	12.82	5.58	0.00	2.87	46.1	6
10.655	53.649	22.1	23.9	26.3	127.41	1.01	0.00	1.82	32.0	3
10.770	54.577	22.4	12.9	12.0	41.95	3.03	0.00	2.52	43.6	4
10.885	55.505	6.1	5.5	4.5	14.97	1.59	0.00	2.82	76.5	2
11.000	56.433	9.2	6.0	2.9	3.29	4.95	0.01	3.04	73.6	2
11.115	57.361	16.1	10.1	10.8	59.05	0.89	0.09	2.02	43.4	4
11.230	58.289	13.8	9.0	7.1	24.64	3.00	0.00	2.74	50.0	3
11.345	59.217	13.5	9.6	8.7	29.69	2.17	0.00	2.49	50.0	4
11.460	60.145	5.8	4.5	3.6	13.19	2.55	0.00	2.81	69.9	2
11.575	61.073	3.7	1.0	2.2	5.64	1.61	0.01	3.26	65.3	1
11.690	62.001	7.2	5.1	3.7	11.35	2.34	0.01	2.68	63.6	2
11.805	62.929	12.8	8.6	6.4	22.26	3.03	0.00	2.52	61.5	4
11.920	63.857	15.4	9.3	8.2	19.80	4.73	0.00	2.58	70.6	4
12.035	64.785	20.3	14.4	12.8	44.76	2.69	0.00	2.41	74.9	3
12.150	65.713	9.3	5.5	3.9	11.40	6.01	-0.01	3.02	80.1	3

Run No 05-0308-1250-0456
CPT File: 121CP08 COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Qt (TSF)	Col-22 Fs (TSF)	Col-23 Rf (%)	Col-24 Qt	Col-25 Ft (%)	Col-26 Bq	Col-27 Ic	Col-28 SC (%)	Col-29 SoilZone (Zone)
9.250	30.347	10.5	1.2	5.2	17.68	2.77	0.05	2.78	44.6	4
9.350	30.676	16.7	10.6	9.4	31.93	1.95	-0.01	2.42	27.4	5
9.450	31.004	11.0	5.9	6.4	22.25	3.51	0.03	2.76	43.7	4
9.550	31.332	17.2	12.1	10.8	37.21	2.36	0.03	2.42	25.4	5
9.650	31.660	8.1	4.8	4.5	16.71	2.09	-0.01	2.72	41.8	4
9.750	31.988	7.6	4.6	4.6	15.63	2.33	0.20	2.75	44.7	4
9.850	32.316	14.0	11.0	20.4	35.07	1.91	0.50	2.37	25.1	6
9.950	32.644	12.7	7.3	5.8	19.42	3.16	0.01	2.75	44.7	4
10.050	32.972	17.1	10.3	7.4	26.49	2.63	0.01	2.63	38.5	4
10.150	33.300	14.9	12.9	10.4	35.47	1.80	0.00	2.35	24.6	3
10.250	33.628	17.1	10.1	7.1	25.59	2.71	0.01	2.65	37.7	4
10.350	33.956	16.7	13.0	11.2	35.08	1.42	-0.01	2.53	32.2	3
10.450	34.284	19.5	13.1	9.1	32.82	1.80	0.00	2.65	38.2	4
10.550	34.612	14.8	13.7	11.0	37.25	2.05	0.00	2.37	25.4	3
10.650	34.941	16.5	13.1	11.6	38.55	2.02	0.00	2.39	26.1	3
10.750	35.269	10.5	6.1	6.3	12.65	4.42	0.00	3.02	59.6	1
10.850	35.597	10.8	9.2	7.8	25.76	1.26	0.00	2.16	24.1	5
10.950	35.925	18.5	15.0	11.5	46.17	2.26	0.00	2.11	21.6	5
11.050	36.253	12.9	8.5	6.3	20.76	3.95	0.00	2.82	47.0	4
11.150	36.581	7.5	6.0	7.7	11.17	3.04	-0.01	2.95	75.5	3
11.250	36.909	9.5	9.5	9.5	16.72	2.85	-0.01	2.76	61.7	4
11.350	37.237	11.3	9.5	8.4	17.83	1.27	-0.01	2.52	47.0	4
11.450	37.565	12.1	9.0	6.7	15.59	1.40	0.00	2.41	46.3	4
11.550	37.893	11.1	7.0	6.3	12.67	4.12	-0.01	2.99	96.1	3
11.650	38.221	15.4	26.4	13.5	50.31	1.05	0.06	2.06	15.3	7
11.750	38.549	19.9	27.2	16.2	68.72	1.97	0.06	2.27	21.3	5
11.850	38.877	12.4	6.0	3.5	8.91	5.75	-0.01	3.20	79.3	1
11.950	39.206	9.5	7.8	6.7	24.36	4.09	-0.01	2.95	55.2	3
12.050	39.534	24.1	21.0	17.1	58.68	2.38	0.00	2.24	21.3	5
12.150	39.862	20.1	24.1	8.5	51.93	5.70	0.00	2.66	48.2	4
12.250	40.190	19.8	17.5	14.1	67.60	2.02	0.00	2.21	21.6	5
12.350	40.518	25.4	31.0	25.7	103.41	1.14	0.00	1.86	5.5	6
12.450	40.846	13.5	21.7	19.1	74.47	0.58	0.00	1.31	1.4	6
12.550	41.174	11.6	21.0	16.9	70.71	0.30	0.00	1.01	0.0	6
12.650	41.502	11.0	-1941.0	-1199.0	68.13	0.16	0.00	-9999.0	-9999.0	0
12.750	41.830	17.5	22.4	17.2	78.02	0.22	0.00	1.58	6.6	6
12.850	42.158	27.3	25.1	19.5	65.27	0.20	0.00	1.50	2.7	6
12.950	42.486	23.6	28.1	22.3	96.29	0.51	0.00	1.67	5.4	6
13.050	42.814	24.4	26.5	20.1	77.21	1.05	0.00	1.93	11.0	6
13.150	43.143	21.4	26.1	19.8	64.64	0.34	0.00	1.62	4.7	6
13.250	43.471	15.7	9995.0	-9999.0	70.68	0.10	0.00	9999.0	9999.0	0
13.350	43.799	13.4	11.6	10.5	41.11	0.19	0.00	1.81	5.0	6
13.450	44.127	11.7	12.5	9.7	34.76	0.23	0.00	1.91	5.0	6
13.550	44.455	15.1	15.8	12.3	47.25	0.30	0.00	1.85	5.0	6
13.650	44.783	14.0	21.7	16.1	61.91	0.02	0.00	1.40	0.4	6
13.750	45.111	25.6	31.2	24.3	95.86	0.57	0.00	1.67	5.5	6
13.850	45.439	25.5	35.2	27.9	114.04	0.63	0.00	1.69	6.4	6
13.950	45.767	25.2	29.9	24.2	97.01	0.34	0.00	1.58	4.0	6
14.050	46.095	23.1	25.4	21.8	83.23	0.74	0.00	1.79	6.0	6
14.150	46.423	27.6	38.4	27.6	107.37	1.15	0.00	1.84	9.2	6
14.250	46.751	34.1	45.3	34.0	139.45	1.02	0.00	1.72	8.4	6
14.350	47.079	33.1	42.2	32.1	127.46	1.02	0.00	1.74	7.9	6
14.450	47.408	33.7	40.8	30.7	129.31	0.68	0.00	1.50	3.8	6
14.550	47.736	31.6	-9999.0	9999.0	151.06	0.07	0.00	-9999.0	-9999.0	0
14.650	48.064	32.6	39.2	29.6	124.22	0.61	0.00	1.66	9.7	6
14.750	48.392	16.8	25.6	23.0	61.11	0.65	0.00	1.85	9.5	6
14.850	48.720	28.9	31.7	16.5	60.49	2.64	0.00	1.66	9.5	6
14.950	49.048	15.0	20.2	15.1	55.21	0.56	0.00	1.84	9.1	6
15.050	49.376	15.5	21.1	15.9	55.21	1.09	0.00	2.05	13.7	6
15.150	49.704	15.5	23.3	13.4	62.72	0.83	0.00	1.93	10.7	6

Run No: 05-1308-1256-5856
Run Title: TOTCP09.DOS

Col-01 Depth (m)	Col-02 Depth (cc)	Col-03 Ni (601 (g/cc)	Col-04 Niobium (b/Et)	Col-05 (Niobium (b/cc)	Col-06 OL	Col-07 FT (K)	Col-08 TOL	Col-09 CC	Col-10 FC (K)	Col-11 Ingrove (Date)
15.000	50.002	17.5	23.9	19.8	44.55	0.75	0.00	1.57	9.1	6
15.050	50.100	17.7	24.4	18.2	45.26	0.57	0.00	1.76	1.4	6
15.100	50.568	17.1	24.8	18.1	75.41	0.65	0.00	1.72	5.0	5
15.150	51.219	16.3	21.3	25.7	66.05	0.33	0.00	1.42	5.0	5
15.200	51.315	14.0	15.5	15.5	40.40	0.45	0.00	1.71	5.0	6
15.250	51.315	12.5	24.9	19.9	67.00	1.04	0.00	1.74	11.5	4
15.300	51.673	12.4	11.2	20.5	82.57	1.06	0.00	1.69	10.0	5
15.350	52.003	24.1	37.2	24.7	90.47	0.83	0.00	1.79	7.1	6
15.400	52.329	28.0	32.0	23.3	81.67	1.31	0.00	1.84	11.5	6
15.450	52.657	25.4	33.5	24.7	95.71	1.25	0.00	1.83	11.2	6
15.500	52.965	39.1	50.6	31.6	142.54	0.88	0.00	1.64	5.2	6
15.550	53.313	35.0	9997.0	9997.0	153.73	0.05	0.00	-9999.0	-9999.0	0
15.600	53.661	21.5	-9999.0	-9999.0	96.76	0.01	0.00	-9999.0	-9999.0	1
15.650	53.969	13.3	-9999.0	-9999.0	81.75	0.01	0.00	-9999.0	-9999.0	1
15.700	54.297	19.8	-9999.0	9997.0	120.90	0.01	0.00	-9999.0	-9999.0	0
15.750	54.625	21.3	-9999.0	9997.0	95.31	0.02	0.00	1.51	1.5	0
15.800	54.953	19.7	24.9	17.6	91.37	0.16	0.00	1.51	5.0	6
15.850	55.281	29.2	17.5	20.7	106.66	0.38	0.00	1.36	1.3	6
15.900	55.610	27.3	40.3	18.6	119.64	0.23	0.00	1.90	10.4	6
15.950	55.938	16.3	23.6	16.7	57.67	0.76	0.00	1.50	10.6	6
16.000	56.266	13.1	13.1	14.5	65.72	0.52	0.00	2.02	13.5	6
16.050	56.594	14.6	17.8	12.4	60.59	0.76	0.00	1.66	12.6	6
16.100	56.923	27.1	24.5	18.4	61.80	1.13	0.00	1.56	3.7	6
16.150	57.255	17.4	22.6	15.9	60.76	0.33	0.00	-9999.0	-9999.0	0
16.200	57.595	17.3	-9999.0	-9999.0	60.76	0.02	0.00	-9999.0	-9999.0	0
16.250	57.906	20.4	-9999.0	-9999.0	71.05	0.03	0.00	-9999.0	-9999.0	0
16.300	58.234	19.3	-9999.0	-9999.0	61.01	0.03	0.00	-9999.0	9991.0	0
16.350	58.562	19.9	-9999.0	-9999.0	69.02	0.01	0.00	9997.0	-9991.0	0
16.400	58.890	20.2	-9999.0	-9999.0	70.02	0.01	0.00	9999.0	-9991.0	0
16.450	59.218	19.2	-9999.0	-9999.0	66.25	0.02	0.00	9999.0	-9999.0	0
16.500	59.547	15.1	-9999.0	-9999.0	68.69	0.02	0.01	9999.0	-9999.0	0
16.550	59.875	25.4	-9999.0	-9999.0	70.19	0.01	0.01	9999.0	-9999.0	0
16.600	60.203	15.3	-9999.0	-9999.0	53.46	0.02	0.01	9999.0	-9999.0	0
16.650	60.531	11.6	-9999.0	-9999.0	35.93	0.02	0.02	9999.0	-9999.0	0
16.700	60.859	10.8	-9999.0	-9999.0	26.54	0.04	0.02	9999.0	-9999.0	0
16.750	61.187	9.6	-9999.0	-9999.0	24.49	0.05	0.02	9999.0	-9999.0	0
16.800	61.515	8.8	-9999.0	-9999.0	20.69	0.04	0.01	9999.0	-9999.0	0
16.850	61.843	6.4	-9999.0	-9999.0	18.23	0.05	0.01	9999.0	-9999.0	0
16.900	62.171	6.1	-9999.0	-9999.0	15.26	0.06	0.01	9999.0	-9999.0	0
16.950	62.499	6.4	-9999.0	-9999.0	13.82	0.06	0.01	9999.0	-9999.0	0
17.000	62.827	6.3	-9999.0	-9999.0	14.97	0.06	0.01	9999.0	-9999.0	0
17.050	63.155	5.8	-9999.0	-9999.0	14.31	0.04	0.01	9999.0	-9999.0	0
17.100	63.483	5.9	-9999.0	-9999.0	14.54	0.04	0.01	9999.0	-9999.0	0
17.150	63.812	6.1	-9999.0	-9999.0	15.03	0.04	0.01	9999.0	-9999.0	0
17.200	64.140	6.3	-9999.0	-9999.0	15.02	0.06	0.01	9999.0	-9999.0	0
17.250	64.468	6.2	-9999.0	-9999.0	15.58	0.07	0.01	9999.0	-9999.0	0
17.300	64.796	6.2	-9999.0	-9999.0	15.12	0.06	0.01	9999.0	-9999.0	0
17.350	65.124	6.3	-9999.0	-9999.0	16.14	0.04	0.01	9999.0	-9999.0	0
17.400	65.452	8.2	-9999.0	-9999.0	20.64	0.05	0.01	9999.0	-9999.0	0
17.450	65.780	6.6	-9999.0	9999.0	17.17	0.05	0.01	9999.0	-9999.0	0
17.500	66.108	7.2	-9999.0	-9999.0	17.82	0.05	0.01	9999.0	-9999.0	0
17.550	66.436	6.5	-9999.0	-9999.0	16.15	0.05	0.01	9999.0	-9999.0	0
17.600	66.764	5.7	-9999.0	-9999.0	14.36	0.05	0.01	9999.0	-9999.0	0
17.650	67.092	5.3	-9999.0	9999.0	15.25	0.06	0.01	9999.0	-9999.0	0
17.700	67.420	6.1	-9999.0	9999.0	14.75	0.04	0.02	9999.0	-9999.0	0
17.750	67.749	6.1	-9999.0	9999.0	14.77	0.06	0.02	9999.0	-9999.0	0
17.800	68.077	6.2	-9999.0	-9999.0	14.80	0.05	0.03	9999.0	-9999.0	0
17.850	68.405	6.1	-9999.0	-9999.0	14.72	0.01	0.03	9999.0	-9999.0	0
17.900	68.733	6.3	-9999.0	9997.0	15.01	0.05	0.04	9999.0	-9999.0	0
17.950	69.061	6.4	-9999.0	9997.0	15.40		0.05	9999.0		0
18.000	69.389									

Run 001: GI 0108 1255-1955
DFT File: 0210708.COA

Col-01 Depth (ft)	Col-02 Depth (in)	Col-03 NPHI (%)	Col-22 (blank)	Col-23 (blank)	Col-24 Dt	Col-25 Pe (B)	Col-26 Sq	Col-27 Ic	Col-28 PT (B)	Col-29 (blank)
21.250	69.717	6.8	-9999.0	-9999.0	15.15	0.05	0.02	-9999.0	-9999.0	0
21.350	70.043	6.7	-9999.0	-9999.0	16.26	0.05	-0.01	-9999.0	-9999.0	0
21.450	70.371	6.6	-9999.0	-9999.0	15.66	0.05	-0.01	-9999.0	-9999.0	0
21.550	70.701	6.1	-9999.0	-9999.0	14.57	0.05	0.00	-9999.0	-9999.0	0
21.650	71.029	6.4	-9999.0	-9999.0	15.08	0.07	0.00	-9999.0	-9999.0	0
21.750	71.357	6.4	-9999.0	-9999.0	15.09	0.05	0.01	-9999.0	-9999.0	0
21.850	71.685	6.3	-9999.0	-9999.0	14.70	0.05	0.01	9999.0	9999.0	0
21.950	72.014	6.3	-9999.0	9999.0	14.91	0.05	0.02	-9999.0	-9999.0	0
22.050	72.342	6.3	-9999.0	-9999.0	14.67	0.05	0.02	-9999.0	-9999.0	0
22.150	72.670	6.2	-9999.0	-9999.0	14.38	0.07	0.03	-9999.0	-9999.0	0
22.250	72.998	6.2	-9999.0	-9999.0	14.33	0.05	0.03	-9999.0	-9999.0	0
22.350	73.326	6.4	-9999.0	-9999.0	15.02	0.05	0.04	-9999.0	-9999.0	0
22.450	73.654	6.8	-9999.0	-9999.0	16.17	0.05	0.05	-9999.0	-9999.0	0
22.550	73.982	6.5	-9999.0	-9999.0	15.16	0.06	0.02	-9999.0	-9999.0	0
22.650	74.310	6.6	-9999.0	-9999.0	14.91	0.05	0.03	-9999.0	-9999.0	0
22.750	74.638	6.3	-9999.0	-9999.0	14.27	0.01	0.03	-9999.0	-9999.0	0
22.850	74.966	6.3	-9999.0	-9999.0	14.18	0.05	0.02	-9999.0	-9999.0	0
22.950	75.294	6.1	-9999.0	-9999.0	14.54	0.05	0.02	-9999.0	-9999.0	0
23.050	75.622	6.1	-9999.0	-9999.0	13.97	0.01	0.02	9999.0	-9999.0	0
23.150	75.951	6.2	-9999.0	-9999.0	13.68	0.01	0.02	9999.0	9999.0	0
23.250	76.279	6.2	-9999.0	-9999.0	13.94	0.05	0.04	-9999.0	-9999.0	0
23.350	76.607	6.1	-9999.0	9999.0	13.95	0.05	0.05	-9999.0	-9999.0	0
23.450	76.935	6.1	9999.0	9999.0	13.96	0.05	0.05	-9999.0	-9999.0	0
23.550	77.263	6.0	-9999.0	-9999.0	13.60	0.06	0.05	-9999.0	-9999.0	0
23.650	77.591	5.9	-9999.0	-9999.0	13.31	0.06	0.06	-9999.0	-9999.0	0
23.750	77.919	5.9	-9999.0	-9999.0	13.26	0.06	0.06	-9999.0	-9999.0	0
23.850	78.247	5.8	-9999.0	-9999.0	13.32	0.05	0.06	-9999.0	-9999.0	0
23.950	78.575	5.8	-9999.0	-9999.0	13.31	0.05	0.07	-9999.0	-9999.0	0
24.050	78.903	5.8	-9999.0	-9999.0	13.29	0.07	0.03	9999.0	-9999.0	0
24.150	79.231	5.8	-9999.0	-9999.0	13.28	0.06	0.01	-9999.0	-9999.0	0
24.250	79.559	5.8	-9999.0	-9999.0	13.24	0.06	0.07	-9999.0	-9999.0	0
24.350	79.887	5.7	-9999.0	-9999.0	13.57	0.06	0.05	-9999.0	-9999.0	0
24.450	80.216	5.7	-9999.0	-9999.0	13.23	0.06	0.06	9999.0	9999.0	0
24.550	80.544	5.7	-9999.0	-9999.0	13.14	0.04	0.05	-9999.0	-9999.0	0
24.650	80.872	5.7	-9999.0	-9999.0	13.13	0.04	0.05	-9999.0	-9999.0	0
24.750	81.200	5.8	-9999.0	-9999.0	13.19	0.04	0.06	9999.0	-9999.0	0
24.850	81.528	5.8	-9999.0	-9999.0	13.13	0.04	0.07	-9999.0	-9999.0	0
24.950	81.856	5.7	-9999.0	-9999.0	12.96	0.04	0.06	-9999.0	-9999.0	0
25.050	82.184	5.8	-9999.0	-9999.0	12.65	0.07	0.05	-9999.0	-9999.0	0
25.150	82.512	5.7	-9999.0	-9999.0	12.47	0.04	0.04	-9999.0	-9999.0	0
25.250	82.840	5.9	9999.0	9999.0	12.46	0.04	0.05	-9999.0	-9999.0	0
25.350	83.168	5.9	-9999.0	-9999.0	12.37	0.05	0.05	-9999.0	-9999.0	0
25.450	83.496	6.0	-9999.0	-9999.0	11.51	0.01	0.02	-9999.0	-9999.0	0
25.550	83.824	6.0	-9999.0	-9999.0	11.05	0.05	0.01	-9999.0	9999.0	0
25.650	84.153	7.4	-9999.0	-9999.0	14.93	0.04	0.00	-9999.0	9999.0	0
25.750	84.481	7.6	-9999.0	-9999.0	16.05	0.04	-0.02	-9999.0	-9999.0	0
25.850	84.809	8.0	-9999.0	-9999.0	17.71	0.04	-0.02	-9999.0	-9999.0	0
25.950	85.137	8.3	-9999.0	-9999.0	18.60	0.04	-0.02	-9999.0	-9999.0	0
26.050	85.465	8.6	-9999.0	-9999.0	19.67	0.03	-0.02	-9999.0	-9999.0	0
26.150	85.793	9.1	-9999.0	-9999.0	21.07	0.03	-0.01	-9999.0	-9999.0	0
26.250	86.121	9.6	-9999.0	9999.0	21.08	0.03	-0.01	-9999.0	-9999.0	0
26.350	86.449	9.8	-9999.0	-9999.0	20.70	0.01	-0.02	-9999.0	-9999.0	0
26.450	86.777	9.7	-9999.0	-9999.0	19.31	0.03	-0.02	-9999.0	-9999.0	0
26.550	87.105	9.4	-9999.0	-9999.0	18.59	0.04	-0.01	-9999.0	-9999.0	0
26.650	87.433	9.0	-9999.0	-9999.0	18.65	0.04	-0.03	-9999.0	-9999.0	0
26.750	87.761	8.9	-9999.0	9999.0	18.61	0.05	-0.03	-9999.0	-9999.0	0
26.850	88.089	9.1	-9999.0	9999.0	19.24	0.04	-0.03	-9999.0	-9999.0	0
26.950	88.419	9.6	-9999.0	-9999.0	20.33	0.03	-0.02	-9999.0	-9999.0	0
27.050	88.746	9.8	-9999.0	-9999.0	21.01	0.02	-0.01	-9999.0	-9999.0	0
27.150	89.074	9.6	11.1	10.0	21.14	0.42	-0.01	1.27	5.0	6

Run No: 05-0504-1153-5546
DPT Title: 721DP05.DAT

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N1(60)1c (b/ft)	Col-23 N1(60)2c (b/ft)	Col-24 Qc	Col-25 Fs (t)	Col-26 Rf	Col-27 Ic	Col-28 FC (%)	Col-29 Iczone (Zone)
71.250	89 402	10 0	14.2	9.5	23.22	1 16	5.29	2.27	21.0	6
71 500	89 730	12 2	15.5	9.0	19.90	1.54	7 01	2.34	25 0	5
71 650	90 050	10 4	16 5	9.6	22.93	1.09	5.01	2 22	19 6	5
71 900	90 366	9 8	16.2	9.4	21.67	1.29	.0 01	2 29	22 1	6
72 150	90 714	13 2	20.6	12.0	29.58	1.14	.0 01	2.16	17 6	6
72.400	91 042	15.5	29.5	17.1	47.25	0.86	2 01	1.93	11.3	6
72.650	91 370	17.7	31 3	18.1	50.59	0.97	.0 01	1.69	10 3	6
72 900	91 698	22 1	33.1	19.1	50.40	1.43	.0 02	2.04	14.7	6
73.150	92 026	25 0	33 2	19.4	59 64	1.76	.0 01	2 05	14.9	6
73.400	92 354	24 3	32 4	18.1	59 31	1.07	-0.01	1 73	6 8	6
73 650	92.683	13 7	65.2	37.6	117.10	0 81	-0.01	1 61	6.6	5
73.900	93 011	11.2	90 2	50.2	129 09	0.71	-0.01	1 51	7.5	6
74.150	93.339	16.9	67.6	38.7	136.50	0.67	-0 01	1 52	9 5	6
74 400	93.667	12.8	61.6	35 3	113.46	0 55	-0.01	1.53	3.0	5
74.650	93 995	10.0	58.8	33.9	103.22	0 68	-0.01	1.65	4.6	6
74.900	94.323	28 6	66 9	38 9	16.70	1 67	-0.01	1 81	4 5	6
75.150	94.651	27.5	66.2	38 7	93.41	0.70	-0.01	1.46	5.3	6
75.400	94.979	25.9	60 6	36 9	68.49	0 59	-0.01	1.43	4.5	6
75.650	95 307	26.7	58 8	36 7	91 24	0.25	-0.01	1.00	1.6	6
75.900	95.635	25.1	43.7	24 9	98.46	0.32	-0 01	1.51	2 9	6
76 150	95.963	21.6	42 5	24 0	93.26	0 67	-0.01	1.61	4.7	6
76.400	96 291	20.0	50 9	26.8	84.76	0 63	-0.01	1.72	4 4	6
76.650	96 620	20 6	16.7	33.3	101 39	0.71	-0.01	1.61	4 6	6
76.900	96.948	11.3	63.1	35 8	107.71	0.83	-0.01	1.64	5 0	6
77 150	97.276	32.5	64.5	36 3	115.76	0 79	-0.01	1.52	4 7	6
77.400	97.604	33.7	60 5	34 0	103.92	0.70	-0.01	1.60	4 9	6
77.650	97.932	26 F	51 4	28.8	86.76	0.64	-0.01	1.67	5.2	6
77 900	98.260	27 8	47 2	26 6	72.76	0.67	-0 01	1 68	5 7	6
78.150	98.589	23.7	41 0	22 5	65 04	0 65	-0.01	1.72	6.2	6
78.400	98.916	25 2	43 6	24.3	70 11	0.71	-0.01	1 73	6.3	6
78 650	99.244	23.3	50.3	27.9	95 17	1.45	-0 01	1 72	10.3	6
78 900	99.572	27.2	42 8	23 8	82.82	1 92	-0.01	2.01	15.0	6
79.150	99.900	26.3	40 5	22.1	57 47	1.79	-0.02	2 06	14 3	5
79 400	100.228	26.5	39.7	22 0	53.61	1.01	-0.02	2.10	15 8	5
79 650	100 557	26.0	41 0	22 7	57.14	1 19	-0.02	2.05	14 7	5
79 900	100.885	25 5	40 7	22.5	55.30	1.55	-0.02	2 10	15 1	5
80 150	101 213	26.6	42.6	23.5	63.39	2.03	-0 02	2.09	15 6	5
80 400	101 541	26.7	42.8	23.6	68.82	1 93	-0.02	2.04	15 1	5
80 650	101.869	24.4	39.8	22.0	53 38	2 05	-0 02	2 12	16 4	5
80 900	102.197	24.4	40.1	22.0	51.53	2.11	-0 02	2.13	16.7	5
81 150	102 525	24.5	44.1	24.2	54.95	2 03	-0.02	2.05	15.4	5
81.400	102.853	27.4	47.9	26.3	68.64	1.52	-0 01	1 95	11.6	5
81.650	103.181	31.3	48.2	26.4	66.33	1.01	-0 01	1 97	12 7	6
81.900	103.509	28.3	45.0	24.6	62.66	1.67	-0 01	2 01	13.2	6
82.150	103.837	28 9	41.6	22.6	58 34	1.44	-0.01	1.95	12.9	6
82.400	104.165	20.1	38.7	21.4	54 83	1.32	-0 02	1 90	13 5	6
82.650	104.493	18.5	36.7	19.4	49.62	1 19	-0.02	1.97	13 1	6
82.900	104 822	16.0	33 5	16.7	41.06	1 07	-0.02	2.01	13 7	6
83 150	105.150	14 5	29.6	16.0	40.15	0.71	C 02	1 99	13 7	6
83 400	105.478	14.3	28.8	15.6	41.20	0.74	.0 02	1 95	13.9	6
83.650	105.806	15.4	29 5	15.0	40.82	0.61	-0 02	1 90	10 5	6
83.900	106.134	15 6	28.9	14 1	41 32	0.73	-0.02	2.05	13.3	6
84 150	106.462	15 4	28.0	13 4	40.71	0.67	-0.02	1.94	11.6	6
84.400	106 790	14.7	26.9	14.5	38.99	0 82	-0.02	1 91	10 4	6
84.650	107.118	14 1	25.5	13.7	35.46	0.43	-0 03	1 95	9.2	6
84 900	107.446	13.6	23 6	12 1	31.35	0 39	-0.03	1 85	9.0	6
85 150	107 774	12 N	21.3	11.4	30 02	0 23	-0.03	1 71	8 2	6
85 400	108.102	11.6	20.0	10.7	28.28	0.14	-0 03	1.70	8 2	6
85.650	108.430	11.7	-9999.0	-9999 0	27.27	0 06	-0.03	-9999 0	-9999 0	6
85.900	108.758	10.6								

Run No: 05-0303-1250-5956
DAT File: 721CF02.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N1(60) (b/ft)	Col-22 N1(60)Ic (b/ft)	Col-23 N1(60)Ic (b/ft)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 FC (%)	Col-29 IrZone (Zone)
33.250	109.087	10.5	-9999.0	-9999.0	27.81	0.02	-0.03	-9999.0	-9999.0	0
33.350	109.415	10.4	-9999.0	-9999.0	26.43	0.02	-0.03	-9999.0	-9999.0	0
33.450	109.741	10.3	-9999.0	-9999.0	26.29	0.02	-0.03	-9999.0	-9999.0	0
33.550	110.071	10.2	-9999.0	-9999.0	26.80	0.02	-0.04	-9999.0	-9999.0	0
33.650	110.395	10.5	-9999.0	-9999.0	25.65	0.02	0.03	-9999.0	-9999.0	0
33.750	110.727	10.5	-9999.0	-9999.0	26.64	0.03	0.03	-9999.0	-9999.0	0
33.850	111.059	10.5	-9999.0	-9999.0	26.55	0.04	-0.03	-9999.0	-9999.0	0
33.950	111.383	10.6	-9999.0	-9999.0	28.92	0.04	-0.04	-9999.0	-9999.0	0
34.050	111.711	10.7	-9999.0	-9999.0	28.57	0.03	-0.04	-9999.0	-9999.0	0
34.150	112.039	10.7	-9999.0	-9999.0	27.04	0.03	-0.04	-9999.0	-9999.0	0
34.250	112.367	10.7	-9999.0	-9999.0	26.39	0.05	-0.00	-9999.0	-9999.0	0
34.350	112.695	10.7	-9999.0	-9999.0	26.50	0.07	-0.07	-9999.0	-9999.0	0
34.450	113.024	11.1	-9999.0	-9999.0	28.05	0.02	-0.03	-9999.0	-9999.0	0
34.550	113.362	11.6	21.4	11.2	29.58	0.15	-0.00	1.75	5.0	6
34.650	113.680	11.5	23.2	12.2	30.30	0.43	-0.00	1.87	5.0	6
34.750	114.008	11.7	23.4	12.2	29.45	0.57	-0.03	1.95	11.7	6
34.850	114.336	11.6	23.0	12.0	29.17	0.49	-0.03	1.93	5.6	6
34.950	114.664	11.3	22.0	11.6	27.90	0.44	-0.03	1.97	5.6	6
35.050	114.992	11.4	22.1	11.6	28.47	0.36	-0.03	1.97	5.2	6
35.150	115.320	11.6	22.4	11.7	29.06	0.33	-0.03	1.85	5.2	6

GeoTec Inc. - CPT Interpretation
Interpretation Output - Release 1.12 Rev. A - Build 5 Format: NLT Imperial
Run No. 05-0108-1258-5958
Job No. 05-021
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-01 OCE
Location: Pigeon Point
Cone: 20 TSF AD/SI
CPT Date 05/04/03
CPT Time: 09 27
CPT File: I:\CP05.COL
Northing (N): 0.000000
Eastings (E): 0.000000
Elevation (m) 0.000000

Water Table (m): 5.12 Ref: 16.8
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (m) 0.10
Su Not used. 15.00 Su/p' (ocr): 0.33
Qc Method : Jamiolkowski - All Sands
Cone Parameter N: 1.20
Used Unit Weights Assigned to Soil Zones
Qtotal Calculated using main
Qideal Calculated using schnee

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Qc (tsf)	Col-04 Phi (deg)	Col-12 State Par	Col-13 Ss/qt	Col-34 YoungE (tsf)	Col-35 Su (tsf)	Col-16 OCR
0.050	0.164	55.5	55.0	-1271.0	-9999.0	-9999.0	-9999.0	-9999.0
0.100	0.492	55.0	55.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
0.150	0.820	84.1	56.0	-0.37	-9999.0	9999.0	-9999.0	-9999.0
0.200	1.148	54.0	58.0	-9999.0	-9999.0	9999.0	-9999.0	-9999.0
0.250	1.476	55.1	55.0	-0.39	-9999.0	9999.0	-9999.0	-9999.0
0.300	1.804	83.2	54.0	-0.37	1.631	103.0	-9999.0	-9999.0
0.350	2.133	75.3	58.0	-0.34	1.677	95.5	-9999.0	-9999.0
0.400	2.461	79.3	56.0	-0.32	1.534	115.8	-9999.0	-9999.0
0.450	2.789	88.1	58.0	-0.34	-9999.0	9999.0	-9999.0	-9999.0
0.500	3.117	78.2	56.0	-0.28	2.067	101.8	-9999.1	-9999.0
0.550	3.445	47.1	52.0	-0.37	2.047	56.1	1995.0	10.0
0.600	3.773	90.0	58.0	0.03	-9999.0	-9999.0	0.775	5.5
0.650	4.101	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.291	1.8
0.700	4.429	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.134	0.9
0.750	4.757	-9999.0	-9999.0	-9999.0	-9999.0	-9994.0	0.079	1.0
0.800	5.085	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.094	1.3
0.850	5.413	-9999.0	9999.0	9999.0	-9999.0	-9999.1	0.188	2.7
0.900	5.741	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.211	4.5
0.950	6.069	999.0	-9999.0	-0.17	2.220	117.0	-9999.0	-9994.0
1.000	6.398	42.2	44.0	-0.16	2.614	102.8	-9999.0	-9999.0
1.050	6.726	56.0	42.0	-0.14	1.414	80.7	1.568	10.0
1.100	7.054	58.7	42.0	-0.15	3.282	86.0	-9999.0	-9997.0
1.150	7.382	41.0	40.0	0.18	1.560	60.0	1.141	10.0
1.200	7.710	35.9	38.0	-9999.0	-9999.0	-9999.0	1.493	6.7
1.250	8.038	-9999.0	-9999.0	-9999.0	-9999.0	-9997.0	0.397	2.4
1.300	8.366	9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.205	1.4
1.350	8.694	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.223	1.5
1.400	9.022	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.503	4.3
1.450	9.350	37.6	36.0	-0.02	3.427	93.0	9999.1	-9999.0
1.500	9.678	30.0	36.0	-0.02	-9999.0	-9999.0	-9999.1	-9999.0
1.550	10.006	50.0	34.0	-0.04	-9999.0	-9999.0	0.634	8.9
1.600	10.335	30.7	36.0	-0.03	-9999.0	-9999.0	1.421	10.1

API NO: 05-0326-1756-0950
Dat File: 121C003.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 GR (API)	Col-04 SP (mV)	Col-05 Shale Bac	Col-06 Es/qt	Col-07 Young's (psi)	Col-08 SU (psi)	Col-09 OCA
1.250	10.663	32.5	34.0	-0.13	-9991.0	-9999.0	2.150	20.5
1.300	10.991	30.0	32.0	-0.02	-9991.0	-9999.0	0.814	6.6
1.400	11.319	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.698	1.0
1.550	11.647	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.343	1.4
1.650	11.975	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.709	1.0
1.750	12.303	-9999.0	-9999.0	0.00	9999.0	-9999.0	0.246	1.1
1.850	12.631	30.0	34.0	0.06	-9999.0	-9999.0	1.083	8.4
1.950	12.959	30.0	36.0	0.06	-9993.0	-9999.0	-9999.0	-9999.0
2.050	13.287	30.0	32.0	-0.03	-9999.0	-9999.0	0.950	0.2
2.150	13.615	30.0	30.0	-0.01	-9999.0	-9999.0	0.694	2.8
2.250	13.943	30.0	26.0	-0.07	3.455	116.2	-9999.0	9999.0
2.350	14.271	30.2	28.0	-0.12	2.685	164.9	-9999.0	9999.0
2.450	14.600	57.3	40.0	-0.19	2.524	164.1	-9999.0	-9999.0
2.550	14.928	58.4	40.0	-0.21	2.324	164.0	-9999.0	9999.0
2.650	15.256	61.9	42.0	-0.23	2.050	149.1	2.462	10.0
2.750	15.584	59.7	40.0	-0.23	-9999.0	-9999.0	2.381	10.0
2.850	15.912	-9999.0	9999.0	-9999.0	-9999.0	9999.0	1.663	10.0
2.950	16.240	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.167	10.0
3.050	16.568	-9999.0	-9999.0	9999.0	-9999.0	134.5	1.631	10.0
3.150	16.896	61.0	38.0	-0.20	3.137	145.0	1.210	10.0
3.250	17.224	66.0	38.0	-0.20	3.032	145.0	2.125	10.0
3.350	17.552	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.029	10.0
3.450	17.880	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	1.454	9.4
3.550	18.208	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.969	7.0
3.650	18.537	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.397	10.0
3.750	18.865	27.8	26.0	-0.15	0.528	130.7	-9999.0	-9999.0
3.850	19.193	61.1	47.0	-0.12	2.176	200.2	2.278	10.1
3.950	19.521	35.2	36.0	-0.19	1.674	127.5	1.053	10.0
4.050	19.849	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	9999.0	-9999.0
4.150	20.177	56.2	48.0	-0.14	2.493	191.4	-9999.0	-9999.0
4.250	20.505	65.8	47.0	-0.15	2.214	230.5	-9999.0	-9999.0
4.350	20.833	61.6	38.0	-0.16	2.318	244.9	2.702	10.0
4.450	21.161	60.4	36.0	-0.20	2.391	241.9	1.934	10.0
4.550	21.489	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.108	4.6
4.650	21.817	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	2.295	10.0
4.750	22.145	35.6	36.0	-0.13	3.674	231.4	2.337	10.0
4.850	22.473	43.2	38.0	0.19	3.167	146.6	1.623	10.0
4.950	22.802	43.2	36.0	0.20	2.981	150.3	2.197	10.0
5.050	23.130	35.6	36.0	-0.17	-9999.0	-9999.0	2.245	10.0
5.150	23.458	34.7	36.0	-0.14	3.935	131.2	1.052	7.2
5.250	23.786	40.0	34.0	-0.03	-9999.0	9999.0	-9991.0	-9999.0
5.350	24.114	44.7	38.0	-0.14	3.176	166.5	1.857	10.0
5.450	24.442	42.9	38.0	-0.16	3.231	156.1	2.264	10.0
5.550	24.770	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.384	10.0
5.650	25.098	32.1	36.0	-0.11	-9999.0	-9999.0	1.006	5.5
5.750	25.426	-9999.0	-9991.0	-9999.0	3.015	313.2	9759.0	-9999.0
5.850	25.754	76.6	44.0	-0.21	-9999.0	-9991.0	1.366	10.0
5.950	26.082	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.146	4.2
6.050	26.410	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.609	1.1
6.150	26.739	-9999.0	-9999.0	0.13	2.657	199.1	-9999.0	9999.0
6.250	27.067	65.7	40.0	-0.09	-9991.0	-9999.0	2.041	9.7
6.350	27.395	-9999.0	-9999.0	-9999.0	1.673	143.4	2.476	10.0
6.450	27.723	36.4	36.0	-0.14	9999.0	-9991.0	0.964	1.0
6.550	28.051	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.481	1.5
6.650	28.379	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.024	3.3
6.750	28.707	9999.0	9999.0	-9999.0	-9999.0	9999.0	1.923	2.4
6.850	29.035	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.721	1.0
6.950	29.363	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	3.335	10.0
7.050	29.691	49.5	38.0	-0.22	3.107	182.6	1.003	3.0
7.150	30.019	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0

Run No. 15-1209-1216-0966
CST Date 7/10/96 CDR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 DT (%)	Col-04 Phi (Deg)	Col-05 Shear Str	Col-07 Den/Qk	Col-08 Young's (ksi)	Col-09 Sv (psi)	Col-10 ODR
0.250	10.347	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.869	5.8
5.350	10.475	49.7	36.0	-0.14	3.627	154.9	2.846	10.0
9.450	31.004	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.989	6.3
9.550	31.332	43.7	38.0	-0.17	3.080	171.3	3.261	10.0
9.650	31.660	35.0	32.0	-1.08	-9999.0	-9999.0	1.329	5.4
9.750	31.988	30.0	32.0	-0.08	-9999.0	-9999.0	1.421	4.8
9.850	32.315	45.1	35.0	-0.15	3.115	171.5	-9999.0	-9999.0
9.950	32.644	-9999.0	-9999.0	-9999.0	-9991.0	-9999.0	1.709	5.8
10.050	32.972	34.6	46.0	-0.15	-9999.0	-9999.0	1.419	10.0
10.150	33.300	45.1	36.0	-0.14	3.327	171.4	9999.0	-9999.0
10.250	31.628	34.1	34.0	-0.15	-9999.0	-9999.0	2.436	10.0
10.350	33.956	47.8	32.0	-0.20	3.147	173.3	3.241	10.0
10.450	34.284	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.135	10.0
10.550	34.611	44.6	38.0	-0.16	3.241	180.9	9999.0	-9999.0
10.650	34.941	44.5	38.0	-0.17	3.177	185.7	1.062	5.9
10.750	35.269	-9999.0	-1999.0	-9999.0	2999.0	-9999.0	1.226	-9999.0
10.850	35.597	34.8	36.0	-0.08	3.017	192.2	.9999.0	-9999.0
10.950	35.925	51.0	38.0	-0.20	2.914	204.8	-9999.0	7.8
11.050	36.254	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	2.051	1.0
11.150	36.581	-9997.0	-9999.0	-9999.0	-9999.0	-9999.0	1.143	6.4
11.250	36.909	38.0	32.0	-0.12	-9999.0	-9999.0	1.876	5.9
11.350	37.237	-9999.0	-9997.0	-9999.0	9999.0	-9997.0	1.797	5.6
11.450	37.565	-9996.0	-9991.0	-9999.0	3999.0	-9999.0	1.924	5.5
11.550	37.893	-9999.0	-9999.0	-9991.0	-9999.0	-9997.0	1.251	3.5
11.650	38.221	51.5	38.0	-0.11	2.781	221.3	-9999.0	-9999.0
11.750	38.549	57.1	38.0	-0.10	2.871	216.9	-9995.0	3969.0
11.850	38.877	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	2.974	7.2
11.950	39.205	-9999.0	60.0	9999.0	-9999.0	-9991.0	1.495	4.3
12.050	39.534	9999.0	9999.0	-9999.0	-9999.0	244.5	-9999.0	-9999.0
12.150	39.862	53.0	36.0	-5.23	2.586	5999.0	2.766	10.0
12.250	40.190	54.6	42.0	-0.19	-9999.0	222.2	-9999.0	-9999.0
12.350	40.519	57.2	42.0	0.20	2.831	265.2	-9999.0	-9999.0
12.450	40.846	64.3	40.0	-0.12	2.117	250.0	-9999.0	-9999.0
12.550	41.174	65.3	40.0	-0.07	2.100	280.3	-9991.0	-9999.0
12.650	41.503	67.2	42.0	0.24	2.454	275.6	-9993.0	-9999.0
12.750	41.830	71.1	42.0	-0.04	2.627	101.7	-9999.0	-9999.0
12.850	42.158	72.7	42.0	0.09	2.314	121.8	-9999.0	-9999.0
12.950	42.486	67.1	40.0	0.12	2.255	146.3	-9997.0	-9999.0
13.050	42.814	65.8	42.0	0.07	2.117	105.0	-9991.0	-9999.0
13.150	43.143	67.6	42.0	0.08	2.329	125.6	-9999.0	-9999.0
13.250	43.471	69.8	38.0	0.03	2.352	109.5	-9999.0	-9999.0
13.350	43.799	46.5	38.0	0.01	2.115	219.1	-9999.0	-9999.0
13.450	44.127	51.6	38.0	-0.04	1.824	207.5	-9999.0	-9999.0
13.550	44.456	61.5	40.0	-0.10	3.206	236.8	-9999.0	-9999.0
13.650	44.784	75.0	42.0	0.14	2.325	270.1	-9999.0	-9999.0
13.750	45.111	79.0	42.0	-0.15	7.564	179.2	-9999.0	-9999.0
13.850	45.439	76.5	42.0	-0.10	2.153	414.1	-9999.0	-9999.0
13.950	45.767	70.8	42.0	-0.14	2.036	345.0	9999.0	-9999.0
14.050	46.095	77.4	42.0	-0.21	2.147	344.5	9999.0	-9999.0
14.150	46.423	84.3	44.0	-0.22	2.244	400.1	-9999.0	-9999.0
14.250	46.751	87.4	44.0	-0.21	2.010	506.0	-9999.0	-9999.0
14.350	47.079	82.0	44.0	-0.15	1.931	660.5	-9999.0	-9999.0
14.450	47.408	38.6	46.0	0.00	1.583	480.5	-9999.0	-9999.0
14.550	47.736	91.3	47.0	-0.16	1.561	-9999.0	-9999.0	-9999.0
14.650	48.064	62.9	40.0	-0.11	1.591	462.6	-9999.0	-9999.0
14.750	48.392	51.6	10.0	0.10	2.451	395.3	-9999.0	-9999.0
14.850	48.720	59.1	40.0	-0.08	2.621	289.6	-9999.0	-9999.0
14.950	49.048	58.3	45.0	-0.14	2.499	218.5	-1999.0	-9999.0
15.050	49.376	63.0	40.0	-0.14	2.619	271.1	-9999.0	-9999.0
15.150	49.704				2.484	300.4	-9999.0	-9999.0

Job No: 05-0308-1217.5963
Plot File: 0308P06.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Dr (%)	Col-31 Phi (deg)	Col-32 Strain Rat	Col-33 Ea/qc	Col-34 Young2 (ksi)	Col-35 Su (psf)	Col-36 OCR
15.700	50.033	64.1	42.0	-0.12	2.462	308.4	-9999.0	-9999.0
15.750	50.360	66.0	40.0	-0.10	2.307	122.7	-9999.0	-1995.0
15.800	50.688	66.5	40.0	-0.09	2.362	728.0	-9999.0	-9991.0
15.850	51.016	62.1	40.0	-0.25	2.514	218.5	-9999.0	-9999.0
15.900	51.345	61.2	38.0	-0.04	3.003	243.4	-9999.0	-9959.0
15.950	51.673	64.0	40.0	0.15	3.422	322.5	-9999.0	9959.0
16.000	52.001	71.2	42.0	-0.27	2.206	220.6	-9999.0	9995.0
16.050	52.329	77.9	42.0	-0.26	2.196	296.2	-9999.0	-9999.0
16.100	52.657	73.1	42.0	-0.19	2.270	972.4	-9999.0	-9159.0
16.150	52.986	72.5	42.0	0.20	2.216	326.2	-9999.0	-9995.0
16.200	53.314	81.3	42.0	-0.21	2.126	611.9	-9999.0	9993.0
16.250	53.642	69.1	44.0	0.51	-9999.0	-9999.0	-9999.0	-9159.0
16.300	53.971	71.6	44.0	0.20	2.150	618.4	-9999.0	-9999.0
16.350	54.299	72.3	42.0	0.18	2.249	308.8	-9999.0	9995.0
16.400	54.627	84.5	44.0	-9991.0	2.011	534.7	-9959.0	-9999.0
16.450	54.955	67.1	40.0	0.18	2.128	356.8	-9999.0	-9959.0
16.500	55.283	57.5	40.0	-0.01	2.381	351.5	-9999.0	-9959.0
16.550	55.610	79.4	42.0	-0.11	2.068	602.5	-9999.0	-9995.0
16.600	55.938	67.7	42.0	-0.08	2.007	505.7	-9959.0	-9999.0
16.650	56.266	62.3	40.0	-0.15	2.657	314.7	-9999.0	9999.0
16.700	56.594	55.5	38.0	-0.07	2.813	276.1	-9999.0	-9999.0
16.750	56.922	52.6	36.0	-0.08	2.970	263.4	-9999.0	-9995.0
16.800	57.250	64.3	40.0	-0.15	2.689	373.7	-9999.0	-9999.0
16.850	57.578	64.9	40.0	0.02	2.503	331.3	-9999.0	-9959.0
16.900	57.906	69.6	40.0	0.17	2.338	331.7	-9999.0	9999.0
16.950	58.235	68.4	40.0	0.19	2.374	349.4	-9999.0	-9995.0
17.000	58.563	66.9	40.0	0.17	2.439	357.4	-9999.0	9999.0
17.050	58.890	67.7	40.0	0.20	2.395	345.6	-9999.0	9999.0
17.100	59.218	68.2	40.0	0.20	2.364	371.3	-9999.0	9999.0
17.150	59.547	66.7	38.0	0.18	2.428	349.8	-9999.0	9999.0
17.200	59.875	63.7	40.0	0.19	2.402	369.1	-9999.0	-9993.0
17.250	60.203	69.5	40.0	0.20	2.332	375.9	-9999.0	-9999.0
17.300	60.531	61.0	40.0	0.20	2.624	320.0	-9999.0	9959.0
17.350	60.859	62.2	38.0	0.20	2.913	771.6	-9999.0	-9959.0
17.400	61.187	62.8	37.0	0.20	2.484	224.8	-9999.0	-9993.0
17.450	61.515	59.8	36.0	0.21	3.729	218.5	-9999.0	-9999.0
17.500	61.843	55.2	36.0	0.19	4.306	200.4	-9999.0	9999.0
17.550	62.171	50.0	34.0	0.21	-9999.0	-9999.0	-9999.0	9999.0
17.600	62.499	48.0	32.0	0.21	-9999.0	-9999.0	-9999.0	.9995.0
17.650	62.827	50.0	32.0	0.21	9999.0	-9999.0	-9999.0	.9999.0
17.700	63.156	50.0	32.0	0.21	9999.0	-9999.0	-9999.0	-9159.0
17.750	63.484	50.0	32.5	0.21	-9999.0	-9999.0	-9999.0	-9999.0
17.800	63.812	50.0	32.0	0.21	-9999.0	-9999.0	-9999.0	9999.0
17.850	64.140	50.0	32.0	0.22	9999.0	-9999.0	-9999.0	-9999.0
17.900	64.468	50.0	32.0	0.20	9999.0	-9999.0	-9999.0	9995.0
17.950	64.796	50.0	32.0	0.27	-9999.0	-9999.0	-9999.0	-9999.0
18.000	65.125	50.0	32.0	0.24	9999.0	210.5	-9999.0	-9999.0
18.050	65.453	50.0	34.0	0.21	3.961	-9999.0	-9999.0	-9999.0
18.100	65.781	50.0	36.0	0.21	-9999.0	-9999.0	-9999.0	-9959.0
18.150	66.109	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	9959.0
18.200	66.437	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9995.0
18.250	66.766	50.0	37.0	0.21	9959.0	-9999.0	-9999.0	-9999.0
18.300	67.094	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.350	67.422	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.400	67.750	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.450	68.078	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.500	68.406	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.550	68.734	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.600	69.063	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
18.650	69.391	50.0	37.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0

Run No: 05-0508-1258-5556
Cal File 721CP88.CCK

Col-01 Depth (M)	Col-02 Depth (FT)	Col-03 Ca (%)	Col-04 Phi (deg)	Col-05 Wave Per	Col-06 Ca/Mg	Col-07 SourgE (psi)	Col-08 Su (psi)	Col-09 CC%
20.250	66.437	30.5	32.0	0.22	-9999.0	-7997.0	.9999.0	-9999.0
20.300	70.069	30.2	32.0	0.22	-9997.0	-9999.0	-9990.0	-9999.0
20.450	70.373	30.0	32.0	0.20	-9999.0	-9999.0	-9999.0	-9999.0
20.500	70.701	30.0	32.0	0.21	-9999.0	-9995.0	-9995.0	-9999.0
20.550	71.029	30.0	32.0	0.20	-9999.0	9999.0	-9999.0	-9999.0
20.700	71.357	30.0	32.0	0.22	-9999.0	9999.0	-9999.0	-9999.0
20.750	71.685	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
20.800	72.014	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
20.850	72.342	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
20.900	72.670	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
20.950	72.998	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.000	73.326	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.050	73.654	30.0	32.0	0.20	-9999.0	-9999.0	-9999.0	-9999.0
21.100	73.982	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.150	74.310	30.0	32.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0
21.200	74.638	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.250	74.966	30.0	32.0	0.22	-9997.0	-9999.0	-9999.0	-9999.0
21.300	75.294	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.350	75.622	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.400	75.950	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
21.450	76.279	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.500	76.607	30.0	32.0	0.22	-9999.0	-9999.0	-9999.0	-9999.0
21.550	76.935	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
21.600	77.263	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
21.650	77.591	30.0	32.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
21.700	77.919	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
21.750	78.247	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
21.800	78.575	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
21.850	78.903	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
21.900	79.231	30.0	32.0	0.23	-9999.0	9999.0	-9999.0	-9999.0
21.950	79.559	30.0	32.0	0.23	-9999.0	9999.0	-9999.0	-9999.0
22.000	79.887	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
22.050	80.216	30.0	32.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
22.100	80.544	30.0	32.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0
22.150	80.872	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
22.200	81.200	30.0	32.0	0.24	9999.0	-9999.0	-9999.0	9999.0
22.250	81.528	30.0	32.0	0.24	9999.0	-9999.0	-9999.0	9999.0
22.300	81.856	30.0	32.0	0.24	.9999.0	-9999.0	-9999.0	-9999.0
22.350	82.184	30.0	32.0	0.27	.9999.0	-9999.0	-9999.0	-9999.0
22.400	82.512	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
22.450	82.840	30.0	32.0	0.23	-9999.0	-9999.0	-9999.0	-9999.0
22.500	83.168	30.0	32.0	0.23	-9997.0	-9999.0	-9999.0	-9999.0
22.550	83.496	30.0	32.0	0.23	-9999.0	4.264	231.1	-9999.0
22.600	83.824	30.0	32.0	0.23	6.358	232.3	-9999.0	-9999.0
22.650	84.153	30.0	32.0	0.23	6.186	226.9	-9999.0	-9999.0
22.700	84.481	30.0	32.0	0.23	6.111	245.5	-9999.0	-9999.0
22.750	84.809	30.0	32.0	0.23	4.020	253.2	-9999.0	-9999.0
22.800	85.137	30.0	32.0	0.23	5.506	262.0	-9999.0	-9999.0
22.850	85.465	30.0	32.0	0.23	3.835	249.3	-9999.0	-9999.0
22.900	85.793	30.0	32.0	0.23	3.944	267.3	-9997.0	-9999.0
22.950	86.121	30.0	32.0	0.23	4.063	254.6	-9999.0	-9999.0
23.000	86.449	30.0	32.0	0.23	4.138	269.3	-9999.0	-9999.0
23.050	86.777	30.0	32.0	0.23	4.287	235.6	-9999.0	-9999.0
23.100	87.105	30.0	32.0	0.23	.9999.0	9999.0	-9999.0	-9999.0
23.150	87.433	30.0	32.0	0.23	-9999.0	.9999.0	.9999.0	-9999.0
23.200	87.761	30.0	32.0	0.23	4.079	256.4	-9999.0	-9999.0
23.250	88.089	30.0	32.0	0.23	3.956	300.0	-9999.0	-9999.0
23.300	88.418	30.0	32.0	0.20	3.513	305.1	-9997.0	-9999.0
23.350	88.746	30.0	32.0	0.20	3.513	305.1	-9997.0	-9999.0
23.400	89.074	30.0	32.0	0.20	3.513	305.1	-9997.0	-9999.0

Job No: 25-3388-1256-5916
CPT File 7210709.CPT

Col-01 Depth (m)	Col 07 Depth (ft)	Col 10 Dc (%)	Col-11 Phi (deg)	Col-12 State Var	Col-13 Es/Qt	Col-14 Youngs (psi)	Col-15 Se (kPa)	Col-16 Dr%
29.350	99.402	41.7	34.3	-0.06	3.812	274.0	-9999.0	-9999.0
29.500	99.910	35.3	36.0	-0.07	3.987	280.0	-9999.0	-9999.0
29.650	100.418	42.7	34.8	-0.05	3.760	269.6	-9999.0	-9999.0
29.800	100.926	43.1	36.3	-0.06	3.857	272.3	-9999.0	-9999.0
29.950	101.434	49.4	35.6	-0.06	3.350	325.2	-9999.0	-9999.0
30.100	101.942	52.5	38.8	-0.05	3.749	416.3	-9999.0	-9999.0
30.250	102.450	54.5	36.3	-0.05	3.678	437.9	-9999.0	-9999.0
30.400	102.958	44.3	36.3	-0.05	3.684	437.8	-9999.0	-9999.0
30.550	103.466	69.1	45.0	-0.09	3.536	486.4	-9999.0	-9999.0
30.700	103.974	64.5	42.8	-0.09	3.109	669.5	-9999.0	-9999.0
30.850	104.482	68.1	42.3	-0.08	-9999.0	9999.0	-9999.0	-9999.0
31.000	104.990	70.5	44.0	-0.10	9999.0	-9999.0	-9999.0	-9999.0
31.150	105.498	69.9	44.0	-0.10	9999.0	9999.0	-9999.0	-9999.0
31.300	106.006	69.3	45.0	-0.10	-9999.0	-9999.0	-9999.0	-9999.0
31.450	106.514	66.7	43.5	-0.10	2.335	710.7	-9999.0	-9999.0
31.600	107.022	63.1	42.8	-0.10	2.113	622.1	-9999.0	-9999.0
31.750	107.530	63.1	42.3	-0.10	2.171	660.6	-9999.0	-9999.0
31.900	108.038	62.5	42.3	-0.10	2.179	635.6	-9999.0	-9999.0
32.050	108.546	60.5	42.0	-0.10	2.116	669.1	-9999.0	-9999.0
32.200	109.054	61.4	42.0	-0.09	2.207	598.1	-9999.0	-9999.0
32.350	109.562	67.3	43.0	-0.10	2.360	577.1	-9999.0	-9999.0
32.500	110.070	65.7	42.8	-0.10	2.217	628.1	-9999.0	-9999.0
32.650	110.578	70.6	43.0	-0.10	2.125	711.2	-9999.0	-9999.0
32.800	111.086	64.3	43.0	-0.10	2.170	767.7	-9999.0	-9999.0
32.950	111.594	65.4	43.0	-0.10	2.227	805.1	-9999.0	-9999.0
33.100	112.102	67.3	43.0	-0.10	2.140	753.1	-9999.0	-9999.0
33.250	112.610	65.4	43.0	-0.10	2.194	466.4	-9999.0	-9999.0
33.400	113.118	66.4	43.0	-0.10	2.300	630.6	-9999.0	-9999.0
33.550	113.626	71.4	43.0	-0.11	2.456	557.4	-9999.0	-9999.0
33.700	114.134	72.8	43.0	-0.11	2.101	579.6	-9999.0	-9999.0
33.850	114.642	75.6	43.0	-0.12	2.336	604.7	-9999.0	-9999.0
34.000	115.150	76.7	43.0	-0.12	2.543	530.2	-9999.0	-9999.0
34.150	115.658	78.3	43.0	-0.13	2.580	516.5	-9999.0	-9999.0
34.300	116.166	69.1	43.0	-0.12	2.621	507.9	-9999.0	-9999.0
34.450	116.674	67.8	43.0	-0.12	2.595	516.2	-9999.0	-9999.0
34.600	117.182	69.1	43.0	-0.13	2.600	512.6	-9999.0	-9999.0
34.750	117.690	68.4	43.0	-0.12	2.566	523.6	-9999.0	-9999.0
34.900	118.198	69.7	43.0	-0.13	2.643	519.1	-9999.0	-9999.0
35.050	118.706	70.0	43.0	-0.13	2.652	505.2	-9999.0	-9999.0
35.200	119.214	67.2	43.0	-0.13	2.646	514.6	-9999.0	-9999.0
35.350	119.722	67.4	43.0	-0.13	2.640	492.1	-9999.0	-9999.0
35.500	120.230	70.6	43.0	-0.14	2.673	502.8	-9999.0	-9999.0
35.650	120.738	71.7	43.0	-0.14	2.627	514.1	-9999.0	-9999.0
35.800	121.246	74.4	43.0	-0.15	2.604	543.5	-9999.0	-9999.0
35.950	121.754	72.8	43.0	-0.15	2.571	522.2	-9999.0	-9999.0
36.100	122.262	70.0	43.0	-0.15	2.516	491.9	-9999.0	-9999.0
36.250	122.770	69.4	43.0	-0.15	2.715	544.0	-9999.0	-9999.0
36.400	123.278	65.5	43.0	-0.15	2.893	434.0	-9999.0	-9999.0
36.550	123.786	63.8	43.0	-0.15	2.935	445.9	-9999.0	-9999.0
36.700	124.294	59.9	43.0	-0.15	2.904	442.9	-9999.0	-9999.0
36.850	124.802	60.1	43.0	-0.15	2.917	447.2	-9999.0	-9999.0
37.000	125.310	60.4	43.0	-0.15	2.904	446.8	-9999.0	-9999.0
37.150	125.818	60.8	43.0	-0.15	2.921	416.3	-9999.0	-9999.0
37.300	126.326	58.4	43.0	-0.15	2.975	424.0	-9999.0	-9999.0
37.450	126.834	57.1	43.0	-0.15	3.014	416.9	-9999.0	-9999.0
37.600	127.342	57.9	43.0	-0.15	3.081	421.8	-9999.0	-9999.0
37.750	127.850	56.5	43.0	-0.15	3.168	387.5	-9999.0	-9999.0
37.900	128.358	55.0	43.0	-0.15	3.319	373.4	-9999.0	-9999.0
38.050	128.866	52.3	43.0	-0.15	3.436	367.9	-9999.0	-9999.0
38.200	129.374	50.7	43.0	-0.15	3.663			

Run No: 15-03CA-1253-5856
CPT File: 121CP08.COR

Col-11 Depth (m)	Col 12 Depth (ft)	Col-37 Dr (%)	Col 31 Fhi (deg)	Col 32 State Par	Col-33 Ks/qt	Col-14 YoungE (tsf)	Col-15 Su (tsf)	Col-36 OCR
33.250	109.087	55.4	36.0	0.24	3.413	372.6	-9999.0	-9999.0
33.350	109.415	49.0	36.0	0.24	3.514	364.2	-9999.0	-9999.0
33.450	109.743	46.9	36.0	0.24	3.521	364.3	-9999.0	-9999.0
33.550	110.071	48.5	36.0	0.24	3.550	362.0	-9999.0	-9999.0
33.650	110.399	47.4	36.0	0.25	3.459	366.8	-9999.0	-9999.0
33.750	110.727	49.4	36.0	0.21	3.500	369.7	-9999.0	-9999.0
33.850	111.055	49.0	36.0	0.19	3.505	370.3	-9999.0	-9999.0
33.950	111.383	49.8	36.0	0.19	3.480	374.0	-9999.0	-9999.0
34.050	111.711	49.9	36.0	0.20	3.480	375.0	-9999.0	-9999.0
34.150	112.019	50.0	36.0	0.21	3.477	376.5	-9999.0	-9999.0
34.250	112.367	49.9	36.0	0.12	3.485	376.4	-9999.0	-9999.0
34.350	112.695	49.9	36.0	0.14	3.485	377.6	-9999.0	-9999.0
34.450	113.024	51.1	36.0	0.13	3.420	386.5	-9999.0	-9999.0
34.550	113.352	52.2	36.0	0.09	3.341	395.2	-9999.0	-9999.0
34.650	113.693	53.1	36.0	-0.01	3.316	402.5	-9999.0	-9999.0
34.750	114.009	52.5	36.0	-0.01	3.348	399.3	-9999.0	-9999.0
34.850	114.336	52.4	36.0	-0.02	3.362	398.4	-9999.0	-9999.0
34.950	114.664	51.1	36.0	-0.01	3.424	397.6	-9999.0	-9999.0
35.050	114.992	51.7	36.0	0.01	3.399	395.5	-9999.0	-9999.0
35.150	115.320	52.3	36.0	0.01	3.348	400.8	-9999.0	-9999.0

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.20 Rev. A - Build 5 Format: NLS Imperial
Job No: 05-0306-1259-0049
Job No: 05-721
Client: NeoSystem Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-0012
Location: Pigeon Point
Cone: 20 TON A AD157
CPT Date: 05/07/03
CPT Time: 13:30
CPT File: 721CP12 HDR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 5.61 (ft): 18.1
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Lu Net used: 13.00 Su/Pt (ne): 0.30
Qt Method: Jamiolkowski - All Sands
Store Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
N160Cs Calculated using qc1n
N160us Calculated using qc1ncs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 V (ft)	Col-10 NET (zone)	Col-11 SuTr (zone)
0.050	0.164	-0.050	-0.164	197.54	135.55	1.21	0.62	1.46	5	-9999.0
0.150	0.492	-0.150	-0.492	774.15	774.15	0.96	0.12	5.45	10	-9999.0
0.250	0.820	-0.250	-0.820	833.63	833.70	0.85	0.10	0.76	10	-9999.0

ConeTec Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev B - Build 5 Format: NLS Imperial
Run No: 05-0109-1249-0047
Job No: 03-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-04-0012
Location: Pigeon Point
Cone: 20 TON & AD167
CPT Date: 05/07/03
CPT Time: 13:10
CPT File: 721CPT12.CDR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 5.61 (ft) 19.1
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (m): 0.10
Nu Wkt used: 15.00 Su/P' (ncl): 0.30
Nc Method: Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Sistic Calculated using qelm
Sishes Calculated using qelmes

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQn (Zone)	Col-14 Perm-k (cm/s)	Col-15 Unit Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 S Stress (tsf)	Col-19 Cp	Col-20 Nkt (b/ft)
0.050	0.164	9	-9999.0	5.00E-03	124.1	0.010	0.000	0.010	0.00	37.5
0.150	0.492	10	-9999.0	5.01E-03	127.3	0.011	0.000	0.011	0.00	127.6
0.250	0.820	10	-9999.0	5.00E-03	127.3	0.053	0.500	0.052	0.00	131.1

Conetec Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev. A Build 5 Format: SLP Imperial
Run No: 05-0108-1219-0049
Job No: 05-771
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-0012
Location: Pigeon Point
Cone: 20 TON & ADIST
CPT Date 05/07/03
CPT Time 11:31
CPT File: 721CP12.CGR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 5.51 (ft): 18.1
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (m): 0.10
Su Net used 15.00 Su/P' (inc): 0.30
Dr Method Jamiolkowski - All Sands
State Parameter N 1.20
Used Unit Weights Assigned to Soil Zones
N160Ic Calculated using qc1n
N160cs Calculated using qc1ncs

Col-01 Depth (m)	Col-02 Depth (ft)	Col-11 N1(60) (b/ft)	Col-22 N160Ic (b/ft)	Col-23 N160Ic (b/ft)	Col-24 Cr	Col-25 Fs (%)	Col-26 Bq	Col-27 Ic	Col-28 SC (%)	Col-29 IcZone (Zone)
0.050	0.164	74.5	-9999.0	-9999.0	1000.00	0.62	0.00	-9999.0	-9999.0	0
0.150	0.492	217.1	-9999.0	-9999.0	1000.00	0.12	0.00	-9999.0	-9999.0	0
0.250	0.820	256.1	-9999.0	-9999.0	1000.00	0.16	0.00	-9999.0	-9999.0	0

DinoTec Inc. - CPT Interpretation
Interpretation Output - Release 1.22 Rev. A Build 5 Format: NLP Imperial
Run No 05-0306-1249-0049
Job No 05-721
Client GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-05-0012
Location: Pigeon Point
Cone 20 TON A AD137
CPT Date 05/07/03
CPT Time 13:30
CPT File: 1210012.CCK
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (m): 5.81 (ft): 19.1
Unit Weight of Water (default) 62.40 pcf
Averaging Increment (m) 0.15
Su Nat used 15.00 Su/P' (nc) 0.30
Nr Method : Jamiolkowski - All Sands
Sigma Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
N1(60) Calculated using qclm
N1(60) Calculated using qclmus

Col 01 Depth (m)	Col 02 Depth (ft)	Col-10 Dr (%)	Col-11 Phi (deg)	Col-12 State Par	Col-33 Es/ct	Col-34 Ycmqb (cmf)	Col-35 Su (psf)	Col-36 CCK
0.050	0.164	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.1
0.150	0.492	95.2	50.0	-9999.0	-9999.0	-9999.0	-9999.1	-9999.0
0.250	0.820	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0

Geotech Inc - CPT Interpretation
Interpretation Output - Release 1.22 Rev A - Build 5 Format NLP Imperial
Run No: 05 0106 1259 0118
Job No: 05-021
Client: Geosynlev Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site CPT-15-2012
Location: Pigeon Point
Cone: 20 TON ADIS7
CPT Date: 05/01/01
CPT Time: 12:41
CPT File: 121CP12A.DAT
Sounding (ft) 0.000000
Testing (ft) 0.000000
Elevation (ft) 0.000000

Water Table (ft): 5.51 (ft) 15.1
Unit Weight of Water (default): 62.40 pcf
Averaging Increment (ft): 0.10
Su Nkt used: 15.00 Su/P' (ft) 0.30
Ic Method : Jamiolkowski - All Sands
Niele Parameter m: 1.20
Hand Unit Weights Assigned to Soil Zones
Nibble Calculated Using qc10
Nibble Calculated Using qcIncr

Col-01 Depth (ft)	Col-02 Depth (ft)	Col-03 Elev (ft)	Col-04 Elev (ft)	Col-05 qc (tsf)	Col-06 qc (tsf)	Col-07 Ic (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-11 SBT (Zone)	Col-12 SBTn (Zone)
0.000	0.164	-0.082	-0.164	117.99	118.07	0.91	0.19	0.84	9	-9999.0
0.100	0.410	-0.250	-0.410	660.72	660.73	1.44	0.21	2.68	10	9999.0
0.250	0.820	-0.250	-0.820	811.02	811.61	1.21	0.10	5.75	10	9999.0
0.350	1.148	-0.350	-1.148	187.91	187.96	1.71	0.61	5.25	10	-9999.0
0.450	1.476	-0.450	-1.476	470.96	470.97	1.42	0.53	5.22	10	9999.0
0.550	1.804	-0.550	-1.804	191.80	225.61	1.21	1.58	4.72	8	9999.0
0.650	2.133	-0.650	-2.133	327.67	327.69	2.83	2.02	3.83	7	8
0.750	2.461	-0.750	-2.461	95.92	95.92	2.62	2.71	3.39	6	8
0.850	2.789	-0.850	-2.789	76.95	76.98	2.81	2.69	3.13	6	8
0.950	3.117	-0.950	-3.117	64.95	64.96	2.84	2.92	3.61	6	8
1.050	3.445	-1.050	-3.445	55.64	55.64	2.88	2.98	3.03	6	8
1.150	3.773	-1.150	-3.773	54.87	54.88	2.15	2.31	2.86	6	8
1.250	4.101	-1.250	-4.101	74.10	74.10	1.59	2.15	2.97	7	8
1.350	4.429	-1.350	-4.429	97.21	97.21	2.41	2.48	3.25	7	8
1.450	4.757	-1.450	-4.757	76.80	76.80	2.25	2.87	3.15	6	8
1.550	5.085	-1.550	-5.085	74.55	74.50	1.97	2.09	0.45	6	8
1.650	5.413	-1.650	-5.413	71.36	71.36	1.91	2.68	3.24	6	8
1.750	5.741	-1.750	-5.741	103.01	103.01	1.76	1.71	0.97	7	8
1.850	6.069	-1.850	-6.069	146.47	146.47	2.06	2.03	2.73	7	8
1.950	6.398	-1.950	-6.398	144.83	146.18	2.05	2.63	2.86	7	8
2.050	6.726	-2.050	-6.726	120.93	120.94	2.59	2.91	2.56	6	8
2.150	7.054	-2.150	-7.054	83.11	83.12	3.60	3.77	2.39	8	8
2.250	7.382	-2.250	-7.382	46.84	46.93	3.72	1.96	20.56	7	5
2.350	7.710	-2.350	-7.710	27.50	27.50	3.82	1.87	16.17	6	5
2.450	8.038	-2.450	-8.038	23.80	23.81	3.36	1.59	22.50	6	5
2.550	8.366	-2.550	-8.366	60.21	60.43	3.07	1.77	33.46	7	5
2.650	8.694	-2.650	-8.694	121.21	121.38	2.74	2.26	34.59	7	6
2.750	9.022	-2.750	-9.022	125.30	126.45	3.39	2.65	32.03	7	8
2.850	9.350	-2.850	-9.350	101.04	101.07	3.42	2.86	27.64	7	6
2.950	9.678	-2.950	-9.678	58.91	59.05	3.50	1.21	9.95	6	5
3.050	10.006	-3.050	-10.006	35.53	35.60	3.18	1.32	20.18	5	5
3.150	10.335	-3.150	-10.335	57.01	57.21	3.93	1.62	20.21	7	5

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev (ft)	Col-05 qc (MPa)	Col-06 fs (kPa)	Col-07 Rf (%)	Col-08 u (kPa)	Col-09 SBT (Zone)	Col-10 Soil (Zone)
3.750	10.663	-3.250	-10.663	42.93	48.74	1.32	2.63	1.61	6	5
3.800	10.989	-3.300	-10.991	46.00	46.03	1.58	3.64	1.50	5	4
3.850	11.329	-3.350	-11.319	125.91	125.92	2.46	1.57	2.65	7	6
3.900	11.647	-3.400	-11.647	135.62	134.19	1.53	1.84	-1.04	7	6
3.950	11.975	-3.450	-11.976	37.05	37.03	1.05	2.63	-4.15	5	5
4.000	12.303	-3.500	-12.304	91.53	91.60	0.78	3.64	-4.59	6	6
4.050	12.611	-3.550	-12.637	25.46	25.66	0.87	3.41	1.63	4	4
3.950	12.949	-3.600	-12.957	41.78	35.75	1.10	3.70	2.54	5	4
4.000	13.287	-4.050	-13.287	17.43	37.44	1.55	3.06	1.06	7	5
4.150	13.615	-4.100	-13.615	58.52	58.56	1.01	1.72	1.21	6	6
4.200	13.943	-4.150	-13.947	46.32	46.32	1.47	3.16	0.87	6	4
4.250	14.271	-4.200	-14.271	27.73	27.74	1.22	6.41	2.56	4	4
4.300	14.599	-4.250	-14.599	18.78	19.82	0.58	4.46	5.57	3	3
4.350	14.271	-4.300	-14.600	16.64	16.86	0.72	4.05	4.78	3	3
4.400	14.600	-4.350	-14.928	12.78	12.85	0.62	4.20	4.60	3	3
4.450	14.928	-4.400	-15.256	21.78	22.73	0.64	2.73	1.01	5	4
4.500	15.256	-4.450	-15.584	39.73	39.71	0.38	2.33	1.46	6	4
4.550	15.584	-4.500	-15.912	56.11	56.14	0.35	2.05	1.93	6	5
4.600	15.912	-4.550	-16.240	54.07	55.06	0.69	1.21	2.63	7	6
4.650	16.240	-4.600	-16.568	22.12	21.13	0.58	2.28	3.22	6	4
4.700	16.568	-4.650	-16.896	24.43	24.46	0.46	1.86	4.67	7	5
4.750	16.896	-4.700	-17.224	58.06	58.06	0.88	1.48	3.62	7	5
4.800	17.224	-4.750	-17.552	41.65	41.65	0.93	1.74	5.63	5	4
4.850	17.552	-4.800	-17.880	18.51	18.69	0.56	3.02	5.43	5	4
4.900	17.880	-4.850	-18.208	20.00	20.06	0.39	1.01	21.62	4	4
4.950	18.208	-4.900	-18.537	34.06	34.64	0.84	2.49	19.26	5	5
5.000	18.537	-4.950	-18.865	16.06	15.17	0.72	4.71	7.93	7	5
5.050	18.865	-5.000	-19.193	55.34	53.23	0.98	1.72	22.96	9	6
5.100	19.193	-5.050	-19.521	43.12	25.07	0.60	2.35	7.16	5	4
5.150	19.521	-5.100	-19.849	20.74	24.36	1.10	3.72	1.69	5	4
5.200	19.849	-5.150	-20.177	19.15	20.73	1.02	1.01	5.93	5	5
5.250	20.177	-5.200	-20.505	24.71	53.75	1.24	2.05	8.25	6	5
5.300	20.505	-5.250	-20.833	51.11	17.91	0.79	4.17	5.67	7	5
5.350	20.833	-5.300	-21.161	17.38	6.90	0.20	4.05	0.75	3	3
5.400	21.161	-5.350	-21.489	6.07	26.52	0.94	2.95	5.57	5	4
5.450	21.489	-5.400	-21.817	28.49	55.43	1.54	2.19	4.52	6	5
5.500	21.817	-5.450	-22.145	55.16	56.72	1.29	2.77	1.73	7	6
5.550	22.145	-5.500	-22.473	56.69	93.35	1.70	3.31	10.44	9	7
5.600	22.473	-5.550	-22.801	93.31	46.93	1.55	1.95	7.87	8	6
5.650	22.801	-5.600	-23.129	46.89	61.69	1.36	2.71	9.49	8	6
5.700	23.129	-5.650	-23.457	11.36	53.64	2.39	4.07	1.21	10	5
5.750	23.458	-5.700	-23.786	58.63	21.25	1.43	4.75	7.27	7	5
5.800	23.786	-5.750	-24.114	21.20	26.17	1.24	1.64	6.47	6	4
5.850	24.114	-5.800	-24.442	28.73	45.95	1.09	2.33	7.24	7	5
5.900	24.442	-5.850	-24.770	46.32	34.92	1.33	2.33	11.43	8	6
5.950	24.770	-5.900	-25.098	16.84	57.35	1.67	2.74	6.28	6	5
6.000	25.098	-5.950	-25.426	59.50	44.94	1.11	2.26	9.10	8	6
6.050	25.426	-6.000	-25.754	40.59	41.32	0.27	0.65	1.67	7	5
6.100	25.754	-6.050	-26.082	41.03	42.51	0.70	1.67	9.36	7	5
6.150	26.082	-6.100	-26.410	42.99	21.22	1.71	6.08	16.45	9	7
6.200	26.410	-6.150	-26.739	23.15	24.31	1.25	5.33	21.33	9	7
6.250	26.739	-6.200	-27.067	24.11	35.97	0.48	1.83	16.67	8	6
6.300	27.067	-6.250	-27.395	35.62	21.24	0.39	1.65	23.17	8	6
6.350	27.395	-6.300	-27.723	21.16	21.98	0.33	3.35	27.20	8	6
6.400	27.723	-6.350	-28.051	21.89	24.92	0.53	2.71	29.38	9	6
6.450	28.051	-6.400	-28.379	24.79	261.95	0.78	0.37	6.12	10	6
6.500	28.379	-6.450	-28.707	257.56	277.92	0.72	0.70	5.85	8	5
6.550	28.707	-6.500	-29.035	271.88	177.51	2.24	1.21	5.94	8	5
6.600	29.035	-6.550	-29.363	177.69	16.49	2.12	2.81	11.71	6	4
6.650	29.363	-6.600	-29.691	16.84	49.85	1.29	2.55	9.03		
6.700	29.691	-6.650	-30.019	46.93						
6.750	30.019	-6.700								

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (psi)	Col-10 SBT (Zone)	Col-11 Nkt (Zone)
8.250	30.347	-6.210	-30.347	51.63	50.58	1.37	2.71	18.19	6	4
8.350	30.675	-6.350	-30.675	41.15	40.10	0.99	2.52	8.61	6	3
8.450	31.004	-6.450	-31.004	61.96	61.58	1.14	1.84	18.40	7	5
8.550	31.332	-6.550	-31.332	78.35	78.41	1.19	2.25	12.12	7	5
8.650	31.660	-6.650	-31.660	71.56	71.69	1.05	4.87	14.32	7	5
8.750	31.988	-6.750	-31.988	31.91	31.36	0.42	1.31	12.43	7	4
8.850	32.316	-6.850	-32.316	31.56	31.61	0.46	2.02	11.11	6	4
8.950	32.644	-6.950	-32.644	89.66	89.96	1.09	1.21	16.03	8	5
9.050	32.972	-7.050	-32.972	36.25	36.34	1.07	2.95	11.12	6	4
9.150	33.300	-7.150	-33.300	42.26	42.32	1.09	2.57	12.64	6	4
9.250	33.628	-7.250	-33.628	58.74	58.80	1.73	2.95	13.93	6	4
9.350	33.956	-7.350	-33.956	28.46	28.52	1.13	4.11	15.01	4	3
9.450	34.284	-7.450	-34.284	56.12	56.20	1.06	1.88	17.81	7	5
9.550	34.612	-7.550	-34.612	55.74	55.81	1.05	1.90	15.47	7	5
9.650	34.941	-7.650	-34.941	60.66	60.72	0.74	1.21	12.37	6	4
9.750	35.269	-7.750	-35.269	22.10	22.16	1.58	2.62	16.39	5	3
9.850	35.597	-7.850	-35.597	26.05	26.13	0.44	1.23	15.91	6	4
9.950	35.925	-7.950	-35.925	25.23	25.31	0.85	3.69	17.27	7	4
10.050	36.253	-8.050	-36.713	73.54	73.44	1.01	1.23	16.35	8	5
10.150	36.581	-8.150	-36.581	45.51	45.59	0.83	1.15	17.09	7	5
10.250	36.909	-8.250	-36.909	103.90	104.04	0.72	0.69	17.21	9	6
10.350	37.237	-8.350	-37.237	81.56	81.46	0.97	0.94	15.55	8	5
10.450	37.565	-8.450	-37.565	170.05	170.15	1.01	0.62	17.02	9	6
10.550	37.893	-8.550	-37.893	108.11	108.16	1.33	0.96	15.35	9	6
10.650	38.221	-8.650	-38.221	91.93	91.97	1.07	1.36	16.24	8	5
10.750	38.549	-8.750	-38.549	56.82	56.89	0.91	1.66	19.62	7	5
10.850	38.877	-8.850	-38.877	21.75	21.88	0.66	1.91	24.56	6	4
10.950	39.206	-8.950	-39.206	19.97	20.02	0.42	2.04	30.53	6	3
11.050	39.534	-9.050	-39.534	35.74	35.87	0.91	2.52	27.56	6	4
11.150	39.862	-9.150	-39.862	46.87	46.95	1.45	2.97	16.70	6	4
11.250	40.190	-9.250	-40.190	39.93	40.01	1.59	3.97	17.23	5	3
11.350	40.518	-9.350	-40.518	30.09	30.14	0.91	2.98	12.17	5	4
11.450	40.846	-9.450	-40.846	17.57	17.64	0.62	2.95	15.95	5	3
11.550	41.174	-9.550	-41.174	14.44	14.47	0.23	1.87	8.65	5	3
11.650	41.503	-9.650	-41.503	20.86	20.91	0.26	1.22	13.90	6	4
11.750	41.831	-9.750	-41.831	46.57	46.65	0.75	1.61	17.37	7	5
11.850	42.159	-9.850	-42.159	32.86	32.91	0.88	2.67	14.04	7	5
11.950	42.486	-9.950	-42.486	165.58	165.65	1.31	0.79	15.35	9	6
12.050	42.814	-10.050	-42.814	217.54	217.62	2.37	1.09	16.31	9	6
12.150	43.142	-10.150	-43.142	63.72	63.79	2.10	3.29	14.10	6	4
12.250	43.471	-10.250	-43.471	31.65	31.70	1.44	4.55	10.91	6	3
12.350	43.799	-10.350	-43.799	10.28	10.38	0.56	5.21	21.31	3	1
12.450	44.127	-10.450	-44.127	9.29	9.61	0.21	2.24	25.47	3	1
12.550	44.455	-10.550	-44.455	17.12	17.25	0.32	1.83	24.43	5	1
12.650	44.783	-10.650	-44.783	17.62	17.93	0.46	2.56	22.17	5	1
12.750	45.111	-10.750	-45.111	15.01	15.15	0.62	3.94	29.40	5	1
12.850	45.439	-10.850	-45.439	19.76	19.93	2.10	5.52	35.81	5	1
12.950	45.767	-10.950	-45.767	220.15	220.91	6.41	2.93	15.15	7	5
13.050	46.095	-11.050	-46.095	69.98	70.07	1.72	5.31	19.71	11	3
13.150	46.423	-11.150	-46.423	61.05	61.18	1.91	3.16	26.24	6	4
13.250	46.751	-11.250	-46.751	39.32	39.72	2.20	5.72	23.31	5	4
13.350	47.079	-11.350	-47.079	47.50	47.67	2.26	4.75	16.97	6	4
13.450	47.408	-11.450	-47.408	61.13	61.26	2.36	3.85	20.47	5	4
13.550	47.736	-11.550	-47.736	60.05	60.24	2.71	4.50	18.55	6	4
13.650	48.064	-11.650	-48.064	61.91	61.14	2.51	4.12	25.70	6	5
13.750	48.392	-11.750	-48.392	51.75	51.91	2.41	4.68	27.14	6	5
13.850	48.720	-11.850	-48.720	38.07	38.20	1.32	3.61	27.67	5	5
13.950	49.048	-11.950	-49.048	29.64	29.77	0.91	3.05	27.76	5	5
14.050	49.376	-12.050	-49.376	58.85	59.98	1.35	2.24	25.90	6	4
14.150	49.704	-12.150	-49.704	82.93	83.07	2.21	2.62	25.81	7	5

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (MPa)	Col-06 qc (tsf)	Col-07 fs (kPa)	Col-08 Rf (%)	Col-09 u (kPa)	Col-10 Vs (m/s)	Col-11 Soil Zone
15.250	50.032	-15.260	-50.092	131.48	111.69	2.35	2.10	24.96	7	5
15.300	50.196	-15.310	-50.260	45.45	45.56	1.19	1.54	22.71	5	3
15.350	50.360	-15.360	-50.426	54.46	54.56	1.37	2.51	21.15	6	4
15.400	50.524	-15.410	-50.592	62.19	62.29	1.41	2.26	22.01	6	4
15.450	50.688	-15.460	-50.758	95.14	95.27	1.47	1.56	23.58	7	3
15.500	50.853	-15.510	-50.924	35.14	35.21	1.03	4.16	24.29	5	3
15.550	51.017	-15.560	-51.090	30.69	30.85	1.01	3.37	24.67	5	4
15.600	51.181	-15.610	-51.255	68.17	68.29	1.29	2.58	25.97	6	4
15.650	51.345	-15.660	-51.421	46.35	46.39	1.36	2.79	26.97	7	4
15.700	51.509	-15.710	-51.587	68.20	68.30	1.51	2.28	27.35	7	3
15.750	51.673	-15.760	-51.753	26.70	26.75	1.07	3.99	28.08	6	4
15.800	51.837	-15.810	-51.919	37.08	37.23	1.01	2.70	28.96	6	3
15.850	52.001	-15.860	-52.084	38.46	38.56	0.77	2.00	29.85	5	3
15.900	52.165	-15.910	-52.250	16.64	16.79	0.34	2.04	31.02	5	3
15.950	52.329	-15.960	-52.416	21.76	21.92	0.56	2.54	32.07	6	3
16.000	52.493	-16.010	-52.582	10.46	10.65	0.37	4.46	41.41	6	4
16.050	52.657	-16.060	-52.748	29.26	29.42	0.74	3.35	37.05	6	4
16.100	52.821	-16.110	-52.914	52.04	52.23	1.64	2.60	32.16	6	4
16.150	52.985	-16.160	-53.079	55.38	55.63	1.85	4.19	33.28	7	5
16.200	53.149	-16.210	-53.245	72.61	72.78	3.05	2.93	36.45	12	5
16.250	53.313	-16.260	-53.411	243.13	243.33	7.05	2.14	35.58	12	5
16.300	53.477	-16.310	-53.577	268.71	268.98	8.61	2.59	32.49	12	5
16.350	53.641	-16.360	-53.743	330.93	330.97	8.57	2.16	34.59	12	5
16.400	53.805	-16.410	-53.909	237.16	237.52	7.49	3.16	42.04	8	4
16.450	53.969	-16.460	-54.075	127.96	127.23	3.76	2.94	31.96	6	3
16.500	54.133	-16.510	-54.241	66.06	66.23	1.94	2.91	35.43	5	3
16.550	54.297	-16.560	-54.407	23.89	24.05	0.87	3.64	42.03	7	4
16.600	54.461	-16.610	-54.573	21.47	21.66	0.54	2.49	53.56	5	4
16.650	54.625	-16.660	-54.739	23.97	23.85	0.81	3.40	57.83	6	4
16.700	54.789	-16.710	-54.905	23.95	24.12	1.60	6.69	62.79	6	3
16.750	54.953	-16.760	-55.071	22.47	20.86	0.33	3.49	62.93	5	3
16.800	55.117	-16.810	-55.237	10.51	10.90	0.13	1.21	74.30	5	3
16.850	55.281	-16.860	-55.403	12.36	12.61	0.06	0.51	105.71	6	3
16.900	55.445	-16.910	-55.569	12.43	12.92	0.08	0.66	132.76	6	3
16.950	55.610	-16.960	-55.735	12.43	12.05	0.10	0.78	121.06	6	3
17.000	55.774	-17.010	-55.901	12.21	12.00	0.12	0.93	127.51	6	3
17.050	55.938	-17.060	-56.067	12.66	13.15	0.11	1.04	113.35	6	3
17.100	56.102	-17.110	-56.233	12.52	13.10	0.08	0.64	130.46	6	3
17.150	56.266	-17.160	-56.399	11.98	12.69	0.06	0.52	140.51	6	3
17.200	56.430	-17.210	-56.565	11.67	12.15	0.10	0.77	149.07	6	3
17.250	56.594	-17.260	-56.731	12.33	13.02	0.25	1.97	146.49	6	3
17.300	56.758	-17.310	-56.897	12.84	13.63	0.16	1.23	144.71	6	3
17.350	56.922	-17.360	-57.063	13.04	14.21	0.22	1.68	137.62	6	3
17.400	57.086	-17.410	-57.229	13.96	14.62	0.27	1.84	120.30	6	3
17.450	57.250	-17.460	-57.395	13.31	13.91	0.23	1.65	128.43	6	3
17.500	57.414	-17.510	-57.561	12.46	11.96	0.12	0.97	154.05	6	3
17.550	57.578	-17.560	-57.727	11.91	12.54	0.11	0.89	160.00	6	3
17.600	57.742	-17.610	-57.893	11.69	13.09	0.11	0.92	139.16	6	3
17.650	57.906	-17.660	-58.059	10.83	11.69	0.10	0.91	147.05	6	3
17.700	58.070	-17.710	-58.225	11.78	12.43	0.09	0.80	160.97	6	3
17.750	58.234	-17.760	-58.392	11.12	12.23	0.11	0.98	148.46	6	3
17.800	58.398	-17.810	-58.558	11.43	14.49	0.15	1.12	145.54	6	3
17.850	58.562	-17.860	-58.724	12.52	13.30	0.19	1.22	142.33	6	3
17.900	58.726	-17.910	-58.890	12.32	13.93	0.19	1.20	130.49	6	3
17.950	58.890	-17.960	-59.056	14.07	14.78	0.19	1.33	124.04	6	3
18.000	59.054	-18.010	-59.222	15.70	16.28	0.20	1.31	127.25	6	3
18.050	59.218	-18.060	-59.388	14.69	14.69	0.20	1.37	118.38	6	
18.100	59.382	-18.110	-59.554	14.12	14.17	0.17	1.23	122.67	6	
18.150	59.547	-18.160	-59.720	12.24	12.83	0.14	1.11	142.56	6	3
18.200	59.711	-18.210	-59.886	11.93	12.15	0.14	1.17	153.65	6	3
18.250	59.875	-18.260	-60.052	11.50	12.22	0.14	1.22	144.73		
18.300	60.039	-18.310	-60.218	11.60	12.56	0.14	1.20			
18.350	60.203	-18.360	-60.384							
18.400	60.367	-18.410	-60.550							
18.450	60.531	-18.460	-60.716							
18.500	60.695	-18.510	-60.882							
18.550	60.859	-18.560	-61.048							
18.600	61.023	-18.610	-61.214							
18.650	61.187	-18.660	-61.380							
18.700	61.351	-18.710	-61.546							
18.750	61.515	-18.760	-61.712							
18.800	61.679	-18.810	-61.878							
18.850	61.843	-18.860	-62.044							
18.900	62.007	-18.910	-62.210							
18.950	62.171	-18.960	-62.376							
19.000	62.335	-19.010	-62.542							
19.050	62.499	-19.060	-62.708							
19.100	62.663	-19.110	-62.874							
19.150	62.828	-19.160	-63.040							
19.200	62.992	-19.210	-63.206							
19.250	63.156	-19.260	-63.372							
19.300	63.320	-19.310	-63.538							
19.350	63.484	-19.360	-63.704							
19.400	63.648	-19.410	-63.870							
19.450	63.812	-19.460	-64.036							
19.500	63.976	-19.510	-64.202							
19.550	64.140	-19.560	-64.368							
19.600	64.304	-19.610	-64.534							
19.650	64.468	-19.660	-64.700							
19.700	64.632	-19.710	-64.866							
19.750	64.796	-19.760	-65.032							
19.800	64.960	-19.810	-65.198							
19.850	65.124	-19.860	-65.364							
19.900	65.288	-19.910	-65.530							
19.950	65.452	-19.960	-65.696							
20.000	65.616	-20.010	-65.862							
20.050	65.780	-20.060	-66.028							
20.100	65.944	-20.110	-66.194							
20.150	66.108	-20.160	-66.360							
20.200	66.272	-20.210	-66.526							
20.250	66.436	-20.260	-66.692							
20.300	66.600	-20.310	-66.858							
20.350	66.764	-20.360	-67.024							
20.400	66.928	-20.410	-67.190							
20.450	67.092	-20.460	-67.356							
20.500	67.256	-20.510	-67.522							
20.550	67.420	-20.560	-67.688							
20.600	67.584	-20.610	-67.854							
20.650	67.749	-20.660	-68.020							
20.700	67.913	-20.710	-68.186							
20.750	68.077	-20.760	-68.352							
20.800	68.241	-20.810	-68.518							
20.850	68.405	-20.860	-68.684							
20.900	68.569	-20.910	-68.850							
20.950	68.733	-20.960	-69.016							
21.000	68.897	-21.010	-69.182							
21.050	69.061	-21.060	-69.348							
21.100	69.225	-21.110	-69.514							
21.150	69.389	-21.160	-69.680							

Run No: 03-0330-1259-0215
CPT File ???????A.DGR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev (m)	Col-04 Elev. (ft)	Col-05 qc (MPa)	Col-06 qc (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (kPa)	Col-10 SBT (Zone)	Col-11 SBTn (Zone)
21.350	69.717	-21.250	-69.717	11.91	12.65	0.36	3.12	156.35	6	3
21.450	70.046	-21.350	-70.046	12.40	13.11	0.36	3.03	161.66	6	3
21.550	70.374	-21.450	-70.374	12.03	12.72	0.35	3.14	161.75	6	3
21.650	70.701	-21.550	-70.701	10.91	11.63	0.15	1.32	151.90	5	3
21.650	71.029	-21.650	-71.029	11.07	12.10	0.16	1.38	153.15	6	3
21.750	71.357	-21.750	-71.357	13.67	14.56	0.17	1.15	147.74	6	3
21.850	71.685	-21.850	-71.685	10.75	11.42	0.16	1.39	144.45	6	3
21.950	72.014	-21.950	-72.014	10.84	11.60	0.16	1.37	151.85	6	3
22.050	72.342	-22.050	-72.342	11.16	11.84	0.18	1.27	148.84	6	3
22.150	72.670	-22.150	-72.670	12.91	13.55	0.18	1.33	147.06	6	3
22.250	72.998	-22.250	-72.998	12.56	13.29	0.17	1.24	146.33	6	3
22.350	73.326	-22.350	-73.326	12.20	12.96	0.17	1.28	142.35	6	3
22.450	73.654	-22.450	-73.654	13.15	14.17	0.17	1.20	136.37	6	3
22.550	73.982	-22.550	-73.982	12.10	12.70	0.16	1.26	137.96	6	3
22.650	74.310	-22.650	-74.310	11.31	11.96	0.13	1.09	139.26	6	3
22.750	74.638	-22.750	-74.638	12.43	13.11	0.14	1.07	147.26	6	3
22.850	74.966	-22.850	-74.966	13.93	14.80	0.18	1.23	140.67	6	3
22.950	75.294	-22.950	-75.294	15.01	16.58	0.27	1.69	143.24	6	3
23.050	75.622	-23.050	-75.622	16.36	16.90	0.25	1.54	136.68	6	3
23.150	75.951	-23.150	-75.951	15.43	16.00	0.21	1.37	122.64	5	3
23.250	76.279	-23.250	-76.279	14.76	15.49	0.24	1.52	156.14	6	3
23.350	76.607	-23.350	-76.607	13.13	13.79	0.20	1.45	142.69	6	3
23.450	76.935	-23.450	-76.935	11.98	12.62	0.17	1.33	135.05	6	3
23.550	77.263	-23.550	-77.263	12.39	13.01	0.16	1.19	131.11	6	3
23.650	77.591	-23.650	-77.591	12.80	13.94	0.17	1.26	134.01	6	3
23.750	77.919	-23.750	-77.919	13.24	13.91	0.18	1.30	145.15	6	3
23.850	78.247	-23.850	-78.247	13.34	13.51	0.19	1.30	142.12	6	3
23.950	78.575	-23.950	-78.575	12.36	13.05	0.17	1.32	147.91	6	3
24.050	78.903	-24.050	-78.903	11.15	11.83	0.17	1.23	152.25	6	3
24.150	79.233	-24.150	-79.231	13.03	13.74	0.15	1.35	161.71	6	3
24.250	79.559	-24.250	-79.559	13.93	14.44	0.17	1.18	178.62	6	3
24.350	79.887	-24.350	-79.887	13.45	14.25	0.17	1.26	180.67	6	3
24.450	80.216	-24.450	-80.215	13.51	14.31	0.16	1.08	174.78	6	3
24.550	80.544	-24.550	-80.544	13.23	14.01	0.18	1.34	171.29	6	3
24.650	80.872	-24.650	-80.872	13.17	14.55	0.19	1.21	167.32	6	3
24.750	81.200	-24.750	-81.200	14.24	14.59	0.19	1.27	166.43	6	3
24.850	81.529	-24.850	-81.526	14.21	14.97	0.22	1.51	168.27	6	3
24.950	81.856	-24.950	-81.856	14.69	15.63	0.20	1.28	167.85	6	3
25.050	82.184	-25.050	-82.184	14.98	15.72	0.23	1.41	167.88	6	3
25.150	82.512	-25.150	-82.512	15.66	16.20	0.26	1.58	164.84	6	3
25.250	82.840	-25.250	-82.840	15.68	16.69	0.29	1.77	171.80	6	3
25.350	83.168	-25.350	-83.168	17.02	17.81	0.30	1.69	167.54	6	3
25.450	83.496	-25.450	-83.496	16.75	16.54	0.29	1.73	164.81	6	3
25.550	83.824	-25.550	-83.824	16.63	17.64	0.26	1.48	171.71	6	3
25.650	84.153	-25.650	-84.153	16.51	17.24	0.26	1.53	164.94	6	3
25.750	84.481	-25.750	-84.481	16.00	16.72	0.24	1.44	153.49	6	3
25.850	84.809	-25.850	-84.809	17.22	17.98	0.28	1.63	162.54	6	3
25.950	85.137	-25.950	-85.137	16.43	16.97	0.25	1.55	158.01	6	3
26.050	85.465	-26.050	-85.465	14.63	15.29	0.20	1.33	140.66	5	3
26.150	85.793	-26.150	-85.793	14.30	15.11	0.20	1.37	141.32	6	3
26.250	86.121	-26.250	-86.121	15.96	16.53	0.22	1.31	150.58	6	3
26.350	86.449	-26.350	-86.449	19.30	19.21	0.25	1.30	184.72	6	3
26.450	86.777	-26.450	-86.777	10.52	10.35	0.10	1.48	177.13	6	3
26.550	87.105	-26.550	-87.105	11.80	10.02	0.35	3.75	174.53	6	3
26.650	87.433	-26.650	-87.433	15.97	16.75	0.27	1.69	166.01	6	3
26.750	87.761	-26.750	-87.761	14.83	14.69	0.22	1.51	181.37	6	3
26.850	88.089	-26.850	-88.089	13.24	13.11	0.28	2.14	193.63	6	3
26.950	88.418	-26.950	-88.418	22.01	22.97	0.34	1.48	200.31	6	3
27.050	88.746	-27.050	-88.746	19.95	20.95	0.31	1.58	190.41	5	3
27.150	89.074	-27.150	-89.074	22.17	22.23	0.42	1.73	227.15	6	3

Run No: 15-2308-1259-0115
CPT File 7T1CP12A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-03 Elev. (m)	Col-04 Elev. (ft)	Col-05 qc (tsf)	Col-06 qt (tsf)	Col-07 fs (tsf)	Col-08 Rf (%)	Col-09 u (ft)	Col-10 SBT (zone)	Col-11 SBTn (zone)
27.150	89.400	-27.250	-89.400	22.64	23.94	0.42	1.74	235.54	6	3
27.350	89.730	-27.350	-89.730	20.87	21.53	0.37	1.70	184.83	6	3
27.450	90.058	-27.450	-90.058	25.23	19.82	0.53	1.78	126.90	6	3
27.550	90.386	-27.550	-90.386	24.21	24.71	0.24	0.95	110.50	7	4
27.650	90.714	-27.650	-90.714	20.45	20.87	0.42	1.49	113.99	6	4
27.750	91.042	-27.750	-91.042	111.74	114.21	0.78	0.63	100.32	9	5
27.850	91.370	-27.850	-91.370	162.14	162.43	1.25	0.77	57.25	9	5
27.950	91.698	-27.950	-91.698	174.49	174.74	1.46	0.83	57.74	9	5
28.050	92.026	-28.050	-92.026	182.70	182.98	1.49	0.72	55.78	9	5
28.150	92.355	-28.150	-92.355	152.01	150.26	1.34	1.24	56.94	8	5
28.250	92.683	-28.250	-92.683	156.57	151.84	1.40	0.89	57.02	9	5
28.350	93.011	-28.350	-93.011	150.16	150.46	1.35	0.90	53.61	9	5
28.450	93.339	-28.450	-93.339	134.63	134.86	2.71	2.01	52.58	7	5
28.550	93.667	-28.550	-93.667	106.81	108.99	3.01	2.81	48.42	6	4
28.650	93.995	-28.650	-93.995	70.16	70.36	3.75	4.91	58.52	12	7
28.750	94.323	-28.750	-94.323	75.09	75.29	3.81	5.07	42.51	11	7
28.850	94.611	-28.850	-94.611	86.56	84.75	3.97	4.50	41.21	11	7
28.950	94.979	-28.950	-94.979	107.61	107.81	3.76	3.47	43.41	7	4
29.050	95.307	-29.050	-95.307	99.82	99.03	3.32	3.35	44.00	9	4
29.150	95.635	-29.150	-95.635	100.58	100.79	0.55	0.56	44.60	9	5
29.250	95.963	-29.250	-95.963	68.02	68.42	2.77	4.05	50.72	9	5
29.350	96.291	-29.350	-96.291	75.51	75.86	5.58	7.10	74.41	11	3
29.450	96.620	-29.450	-96.620	62.45	62.75	4.80	7.64	64.43	11	3
29.550	96.948	-29.550	-96.948	63.79	64.07	4.50	7.03	50.79	11	3
29.650	97.276	-29.650	-97.276	61.09	61.75	4.22	6.67	59.03	11	3
29.750	97.604	-29.750	-97.604	58.50	59.17	3.84	6.49	57.43	11	3
29.850	97.932	-29.850	-97.932	62.16	62.43	3.96	4.35	56.62	11	3
29.950	98.260	-29.950	-98.260	95.95	95.07	3.61	5.01	24.55	11	3
30.050	98.588	-30.050	-98.588	78.71	79.67	5.14	6.50	-1.79	11	3
30.150	98.914	-30.150	-98.916	93.53	93.48	6.35	6.94	-6.26	11	3
30.250	99.244	-30.250	-99.244	93.68	93.56	8.74	7.20	-5.05	11	3
30.350	99.572	-30.350	-99.572	79.69	79.67	5.84	7.34	-4.90	11	3
30.450	99.900	-30.450	-99.900	77.58	77.65	4.70	6.05	-5.72	11	3
30.550	100.228	-30.550	-100.228	88.80	88.77	3.67	4.14	-5.27	9	3
30.650	100.557	-30.650	-100.557	166.55	168.51	1.16	0.69	-1.42	9	3

Geotec Inc. CPT Interpretation
Interpretation Output - Release 1.22 Rev. A - Build 5 Format: NLP Imperial
Run No: 05-0308-1259-0115
Job No: 05-721
Client: GeoSyntec Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Site: CPT-03-0312
Location: Pigeon Point
Date: 28 FEB 2005
CPT Date: 03/07/03
CPT Time: 13:41
CPT File: 721CP12A.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (ft): 5.61 (Est: 19.)
Unit Weight of Water (Default): 62.43 pcf
Averaging Increment (m): 0.15
Nk Ckt used: 15.00 Su/P' Incl: 0.22
Cr Method: Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Ic(dz) Calculated using qcin
Ic(Rf) Calculated using qcnorm

Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-Nq (Zone)	Col-13 SBT-Bqn (Zone)	Col-14 Ic(dz-) (dz/s)	Col-15 Unit Wt (pcf)	Col-16 V Stress (tsf)	Col-17 E Stress (tsf)	Col-18 K Correc (tsf)	Col-19 Dr	Col-20 N60 (b/ft)
0.050	0.164	9	-9999.0	5.0E-02	116.2	0.010	0.000	0.010	2.00	22.6
0.100	0.492	10	-9999.0	5.0E-02	109.2	0.021	0.000	0.021	2.00	108.7
0.200	0.820	10	-9999.0	5.0E-02	109.2	0.062	0.000	0.032	2.00	121.5
0.300	1.148	10	-9999.0	5.0E-02	109.2	1.033	0.000	0.033	2.00	99.8
0.400	1.476	10	-9999.0	5.0E-02	109.2	0.093	0.000	0.093	2.00	95.5
0.500	1.804	9	-9999.0	5.0E-02	120.9	0.114	0.000	0.114	2.00	45.2
0.650	2.133	9	7	5.0E-04	120.7	0.133	0.000	0.135	2.00	41.8
0.700	2.461	9	7	5.0E-05	116.6	0.152	0.000	0.152	2.00	35.7
0.850	2.789	5	7	5.0E-05	116.6	0.171	0.000	0.171	2.00	33.5
0.900	3.117	5	7	5.0E-05	116.6	0.190	0.000	0.190	2.00	25.6
1.000	3.445	5	7	5.0E-05	116.6	0.209	0.010	0.209	2.00	21.3
1.100	3.773	6	7	5.0E-05	116.6	0.228	0.020	0.220	2.00	21.0
1.200	4.101	6	7	5.0E-04	111.7	0.247	0.030	0.247	2.00	25.7
1.350	4.429	9	7	5.0E-04	111.7	0.266	0.050	0.266	1.96	31.5
1.450	4.757	9	7	5.0E-05	114.6	0.285	0.050	0.285	1.93	30.2
1.550	5.085	8	7	5.0E-05	114.6	0.304	0.060	0.304	1.91	29.5
1.650	5.413	8	7	5.0E-05	114.6	0.323	0.080	0.303	1.96	27.5
1.750	5.741	9	7	5.0E-04	111.7	0.342	0.090	0.342	1.91	32.0
1.850	6.069	9	7	5.0E-04	111.7	0.361	0.100	0.361	1.86	46.8
1.950	6.398	9	7	5.0E-04	111.7	0.380	0.100	0.380	1.82	44.0
2.050	6.726	9	7	5.0E-05	116.0	0.399	0.100	0.399	1.78	44.1
2.150	7.054	9	7	5.0E-03	120.9	0.419	0.100	0.419	1.75	19.9
2.250	7.382	8	6	5.0E-04	117.7	0.438	0.100	0.438	1.71	14.7
2.350	7.710	7	6	5.0E-05	114.5	0.457	0.100	0.457	1.68	10.6
2.450	8.038	6	6	5.0E-05	111.4	0.475	0.100	0.474	1.65	9.2
2.550	8.366	8	6	5.0E-04	117.7	0.494	0.100	0.494	1.62	19.3
2.650	8.694	9	7	5.0E-04	117.7	0.513	0.100	0.513	1.59	38.7
2.750	9.022	9	7	5.0E-04	117.7	0.532	0.100	0.532	1.57	40.4
2.850	9.350	7	7	5.0E-04	117.7	0.551	0.100	0.551	1.54	32.5
2.950	9.679	8	6	5.0E-05	114.6	0.570	0.100	0.570	1.52	22.6
3.050	10.006	7	6	5.0E-05	114.6	0.589	0.100	0.589	1.50	17.1
3.150	10.335	8	6	5.0E-04	117.7	0.610	0.100	0.610	1.48	18.2

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 SBT-BQ (Zone)	Col-13 SBT-BQA (Zone)	Col-14 Pore-P (tsf)	Col-15 Unit Wt (pcf)	Col-16 Σ Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 Qt	Col-20 Nkt (E/Σσ)
3.050	10.003	6	6	5.0E-05	114.6	0.629	0.000	0.629	1.26	15.7
3.100	10.991	6	6	5.0E-05	114.4	0.640	0.000	0.640	1.24	22.0
3.150	11.319	6	7	5.0E-04	117.7	0.657	0.000	0.567	1.22	40.2
3.200	11.647	6	7	5.0E-04	117.7	0.685	0.000	0.686	1.21	43.5
3.250	11.975	6	6	5.0E-05	114.6	0.705	0.000	0.705	1.19	14.2
3.300	12.303	6	5	5.0E-07	114.6	0.724	0.000	0.724	1.18	11.7
3.350	12.631	6	6	5.0E-06	114.6	0.743	0.000	0.743	1.16	12.2
3.400	12.959	6	6	5.0E-05	114.6	0.762	0.000	0.762	1.15	16.3
3.450	13.287	6	5	5.0E-06	114.6	0.781	0.000	0.781	1.13	17.6
3.500	13.615	6	6	5.0E-05	114.6	0.799	0.000	0.800	1.12	16.7
3.550	13.943	6	6	5.0E-05	114.6	0.818	0.000	0.819	1.11	17.7
3.600	14.271	6	6	5.0E-05	114.6	0.837	0.001	0.837	1.09	17.7
3.650	14.600	6	6	5.0E-05	114.6	0.856	0.001	0.856	1.08	18.0
3.700	14.928	6	6	5.0E-05	114.6	0.875	0.000	0.875	1.07	18.2
3.750	15.256	6	6	5.0E-05	114.6	0.893	0.000	0.893	1.05	17.8
3.800	15.584	6	6	5.0E-05	114.6	0.911	0.000	0.911	1.04	17.9
3.850	15.912	6	6	5.0E-05	114.6	0.930	0.000	0.930	1.04	18.1
3.900	16.240	6	6	5.0E-05	114.6	0.948	0.000	0.948	1.03	17.8
3.950	16.568	6	6	5.0E-05	114.6	0.967	0.000	0.967	1.01	18.1
4.000	16.896	6	6	5.0E-04	117.7	0.987	0.000	0.987	1.00	19.4
4.050	17.224	6	5	5.0E-05	114.6	1.006	0.000	1.006	0.99	19.9
4.100	17.552	6	5	5.0E-05	114.6	1.025	0.000	1.025	0.98	19.3
4.150	17.880	6	6	5.0E-04	117.7	1.046	0.000	1.044	0.97	20.0
4.200	18.208	6	6	5.0E-04	117.7	1.063	0.000	1.063	0.96	20.1
4.250	18.537	6	5	5.0E-06	114.6	1.082	0.000	1.082	0.95	19.8
4.300	18.865	6	5	5.0E-06	114.6	1.101	0.000	1.101	0.94	19.5
4.350	19.193	6	5	5.0E-05	114.6	1.119	0.000	1.119	0.94	19.3
4.400	19.521	6	5	5.0E-05	114.6	1.138	0.014	1.124	0.94	19.7
4.450	19.849	6	6	5.0E-04	117.7	1.157	0.029	1.128	0.94	20.6
4.500	20.177	6	6	5.0E-04	117.7	1.176	0.043	1.133	0.94	19.7
4.550	20.505	6	5	5.0E-06	114.6	1.195	0.058	1.137	0.93	19.4
4.600	20.833	6	5	5.0E-05	114.6	1.213	0.072	1.141	0.93	19.4
4.650	21.161	6	5	5.0E-05	114.6	1.232	0.086	1.146	0.92	19.7
4.700	21.489	6	5	5.0E-05	114.6	1.251	0.101	1.150	0.92	19.7
4.750	21.817	6	6	5.0E-04	117.7	1.269	0.115	1.154	0.91	20.1
4.800	22.145	6	6	5.0E-04	117.7	1.288	0.129	1.159	0.91	20.7
4.850	22.473	6	5	5.0E-06	114.6	1.307	0.144	1.163	0.91	22.5
4.900	22.802	6	5	5.0E-05	114.6	1.325	0.158	1.167	0.91	19.7
4.950	23.130	6	6	5.0E-04	117.7	1.344	0.173	1.171	0.90	20.5
5.000	23.458	6	6	5.0E-04	117.7	1.363	0.187	1.176	0.90	20.2
5.050	23.786	6	6	5.0E-05	114.6	1.382	0.202	1.180	0.89	19.7
5.100	24.114	6	6	5.0E-05	114.6	1.400	0.216	1.184	0.89	19.6
5.150	24.442	6	6	5.0E-05	114.6	1.419	0.231	1.188	0.88	19.7
5.200	24.770	6	6	5.0E-05	114.6	1.438	0.245	1.193	0.88	19.9
5.250	25.098	6	6	5.0E-05	114.6	1.457	0.260	1.197	0.87	19.7
5.300	25.426	6	6	5.0E-05	114.6	1.476	0.274	1.201	0.87	19.7
5.350	25.754	6	6	5.0E-05	114.6	1.494	0.289	1.205	0.86	19.7
5.400	26.082	6	6	5.0E-05	114.6	1.513	0.303	1.210	0.86	19.7
5.450	26.410	6	6	5.0E-05	114.6	1.532	0.318	1.214	0.85	19.7
5.500	26.739	6	6	5.0E-05	114.6	1.551	0.332	1.218	0.85	19.7
5.550	27.067	6	6	5.0E-05	114.6	1.570	0.347	1.222	0.84	19.7
5.600	27.395	6	6	5.0E-05	114.6	1.588	0.361	1.227	0.84	19.7
5.650	27.723	6	6	5.0E-05	114.6	1.607	0.376	1.231	0.84	19.7
5.700	28.051	6	6	5.0E-05	114.6	1.626	0.390	1.235	0.83	19.7
5.750	28.379	6	6	5.0E-05	114.6	1.645	0.405	1.239	0.83	19.7
5.800	28.707	6	6	5.0E-05	114.6	1.663	0.419	1.244	0.82	19.7
5.850	29.035	6	6	5.0E-05	114.6	1.682	0.434	1.248	0.82	19.7
5.900	29.363	6	6	5.0E-05	114.6	1.701	0.448	1.252	0.82	19.7
5.950	29.691	6	6	5.0E-05	114.6	1.720	0.463	1.256	0.81	19.7
6.000	30.019	6	6	5.0E-05	114.6	1.738	0.477	1.260	0.81	19.7
6.050	30.348	6	6	5.0E-05	114.6	1.757	0.492	1.265	0.80	19.7
6.100	30.676	6	6	5.0E-05	114.6	1.776	0.506	1.269	0.80	19.7
6.150	31.004	6	6	5.0E-05	114.6	1.795	0.521	1.273	0.79	19.7
6.200	31.332	6	6	5.0E-05	114.6	1.813	0.535	1.277	0.79	19.7
6.250	31.660	6	6	5.0E-05	114.6	1.832	0.550	1.281	0.78	19.7
6.300	31.988	6	6	5.0E-05	114.6	1.851	0.564	1.286	0.78	19.7
6.350	32.316	6	6	5.0E-05	114.6	1.870	0.579	1.290	0.77	19.7
6.400	32.644	6	6	5.0E-05	114.6	1.888	0.593	1.294	0.77	19.7
6.450	32.972	6	6	5.0E-05	114.6	1.907	0.608	1.298	0.76	19.7
6.500	33.301	6	6	5.0E-05	114.6	1.926	0.622	1.303	0.76	19.7
6.550	33.629	6	6	5.0E-05	114.6	1.945	0.637	1.307	0.75	19.7
6.600	33.957	6	6	5.0E-05	114.6	1.963	0.651	1.311	0.75	19.7
6.650	34.285	6	6	5.0E-05	114.6	1.982	0.666	1.315	0.74	19.7
6.700	34.613	6	6	5.0E-05	114.6	2.001	0.680	1.320	0.74	19.7
6.750	34.941	6	6	5.0E-05	114.6	2.020	0.695	1.324	0.73	19.7
6.800	35.269	6	6	5.0E-05	114.6	2.038	0.709	1.328	0.73	19.7
6.850	35.597	6	6	5.0E-05	114.6	2.057	0.724	1.332	0.72	19.7
6.900	35.926	6	6	5.0E-05	114.6	2.076	0.738	1.337	0.72	19.7
6.950	36.254	6	6	5.0E-05	114.6	2.095	0.753	1.341	0.71	19.7
7.000	36.582	6	6	5.0E-05	114.6	2.113	0.767	1.345	0.71	19.7
7.050	36.910	6	6	5.0E-05	114.6	2.132	0.782	1.349	0.70	19.7
7.100	37.238	6	6	5.0E-05	114.6	2.151	0.796	1.354	0.70	19.7
7.150	37.566	6	6	5.0E-05	114.6	2.170	0.811	1.358	0.69	19.7
7.200	37.894	6	6	5.0E-05	114.6	2.188	0.825	1.362	0.69	19.7
7.250	38.223	6	6	5.0E-05	114.6	2.207	0.840	1.366	0.68	19.7
7.300	38.551	6	6	5.0E-05	114.6	2.226	0.854	1.371	0.68	19.7
7.350	38.879	6	6	5.0E-05	114.6	2.245	0.869	1.375	0.67	19.7
7.400	39.207	6	6	5.0E-05	114.6	2.263	0.883	1.379	0.67	19.7
7.450	39.535	6	6	5.0E-05	114.6	2.282	0.898	1.383	0.66	19.7
7.500	39.863	6	6	5.0E-05	114.6	2.301	0.912	1.387	0.66	19.7
7.550	40.191	6	6	5.0E-05	114.6	2.320	0.927	1.392	0.65	19.7
7.600	40.519	6	6	5.0E-05	114.6	2.338	0.941	1.396	0.65	19.7
7.650	40.847	6	6	5.0E-05	114.6	2.357	0.956	1.400	0.64	19.7
7.700	41.176	6	6	5.0E-05	114.6	2.376	0.970	1.404	0.64	19.7
7.750	41.504	6	6	5.0E-05	114.6	2.395	0.985	1.408	0.63	19.7
7.800	41.832	6	6	5.0E-05	114.6	2.413	0.999	1.413	0.63	19.7
7.850	42.160	6	6	5.0E-05	114.6	2.432	1.014	1.417	0.62	19.7
7.900	42.488	6	6	5.0E-05	114.6	2.451	1.028	1.421	0.62	19.7
7.950	42.816	6	6	5.0E-05	114.6	2.470	1.043	1.425	0.61	19.7
8.000	43.144	6	6	5.0E-05	114.6	2.488	1.057	1.429	0.61	19.7
8.050	43.473	6	6	5.0E-05	114.6	2.507	1.072	1.433	0.60	19.7
8.100	43.801	6	6	5.0E-05	114.6	2.526	1.086	1.438	0.60	19.7
8.150	44.129	6	6	5.0E-05	114.6	2.545	1.101	1.442	0.59	19.7
8.200	44.457	6	6	5.0E-05	114.6	2.563	1.115	1.446	0.59	19.7
8.250	44.785	6	6	5.0E-05	114.6	2.582	1.130	1.450	0.58	19.7
8.300	45.113	6	6	5.0E-05	114.6	2.601	1.144	1.454	0.58	19.7
8.350	45.441	6	6	5.0E-05	114.6	2.620	1.159	1.458	0.57	19.7
8.400	45.770	6	6	5.0E-05	114.6	2.638	1.173	1.463	0.57	19.7
8.450	46.098	6	6	5.0E-05	114.6	2.657	1.188	1.467	0.56	19.7
8.500	46.426	6	6	5.0E-05	114.6	2.676	1.202	1.471	0.56	19.7
8.550	46.754	6	6	5.0E-05	114.6	2.695	1.217	1.475	0.55	19.7
8.600	47.082	6	6	5.0E-05	114.6	2.713	1.231	1.479	0.55	19.7
8.650	47.410	6	6	5.0E-05	114.6	2.732	1.246	1.483	0.54	19.7
8.700	47.738	6	6	5.0E-05	114.6	2.751	1.260	1.488	0.54	19.7
8.750	48.066	6	6	5.0E-05	114.6	2.770	1.275	1.492	0.53	19.7
8.800	48.395	6	6	5.0E-05	114.6	2.788	1.289	1.496	0.53	19.7
8.850	48.723	6	6	5.0E-05	114.6	2.807	1.304	1.500	0.52	19.7
8.900	49.051	6	6	5.0E-05	114.6	2.826	1.318	1.504	0.52	19.7
8.950	49.379	6	6	5.0E-05	114.6	2.845	1.333	1.508	0.51	19.7
9.000	49.707	6	6	5.0E-05	114.6	2.863	1.347	1.513	0.51	19.7
9.050	50.035	6	6	5.0E-05	114.6	2.882	1.362	1.517	0.50	19.7
9.100	50.363	6	6	5.0E-05	114.6	2.901	1.376	1.521	0.50	19.7
9.150	50.693	6	6	5.0E-05	114.6	2.920	1.391	1.525	0.49	19.7
9.200	51.022	6	6	5.0E-05	114.6	2.938	1.405	1.529	0.49	19.7
9.250	51.350	6	6	5.0E-05	114.6	2.957	1.420	1.533	0.48	19.7
9.300	51.678	6	6	5.0E-05	114.6	2.976	1.434	1.538	0.48	19.7
9.350	52.006	6	6	5.0E-05	114.6	2.995	1.449	1.542	0.47	19.7
9.400	52.334	6	6	5.0E-05	114.6	3.013	1.463	1.546	0.47	19.7
9.450	52.662	6	6	5.0E-05	114.6	3.032	1.478	1.550	0.46	19.7
9.500	52.990	6	6	5.0E-05	114.6	3.051	1.492	1.554	0.46	19.7
9.550	53.318	6	6	5.0E-05	114.6	3.070	1.507	1.558	0.45	19.7
9.600	53.647	6	6	5.0E-05	114.6	3.088	1.521	1.562	0.45	19.7
9.650	53.975	6	6	5.0E-05	114.6	3.107	1.536	1.566	0.44	19.7
9.700	54.303	6	6	5.0E-05	114.6	3.126	1.550	1.570	0.44	19.7
9.750	54.631	6	6	5.0E-05	114.6	3.145	1.565	1.574	0.43	19.7
9.800	54.959	6	6	5.0E-05	114.6	3.163	1.579	1.578	0.43	19.7
9.850	55.287	6	6	5.0E-05	114.6	3.182	1.594	1.582	0.42	19.7
9.900	55.615	6	6	5.0E-05	114.6	3.201	1.608	1.586	0.42	19.7
9.950	55.943	6	6	5.0E-05	114.6	3.220	1.623	1.590	0.41	19.7
10.000	56.272	6	6	5.0E-05	114.6	3.238	1.637	1.594	0.41	19.7

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Col-01 Depth (ft)	Col-02 Depth (ft)	Col 17 SBT-BQ (Zone)	Col-13 SBT-NOT (Zone)	Col-14 Perm-K (cm/s)	Col-15 Dry Wt (pcf)	Col-16 T Stress (tsf)	Col-17 U Stress (tsf)	Col-18 Z Stress (tsf)	Col-19 Cn	Col 20 Qtn (n/a)
5.250	10.167	6	5	5.0E-05	114.6	1.967	0.351	1.601	0.86	14.6
5.350	10.675	6	5	5.0E-04	114.6	1.980	0.363	1.426	0.84	15.1
5.450	10.525	6	6	5.1E-04	117.7	1.999	0.373	1.427	0.84	19.3
5.550	10.532	6	6	5.0E-04	117.7	1.815	0.361	1.435	0.87	25.0
5.650	10.682	6	5	5.0E-04	111.4	1.838	0.356	1.444	0.87	29.7
5.750	10.588	6	5	5.0E-04	117.7	1.856	0.695	1.453	0.87	10.0
5.850	10.316	6	5	5.0E-05	114.6	1.875	0.614	1.411	0.83	12.1
5.950	10.044	6	5	5.0E-03	120.9	1.695	0.424	1.471	0.82	14.5
6.050	10.972	6	5	5.0E-05	114.6	1.914	0.474	1.460	0.82	13.9
6.150	10.100	6	5	5.0E-05	114.6	1.933	0.445	1.485	0.82	16.3
6.250	11.676	6	5	5.0E-05	114.6	1.951	0.455	1.471	0.82	12.5
6.350	11.946	6	5	5.0E-05	114.6	1.970	0.484	1.506	0.82	12.2
6.450	11.264	6	5	5.0E-05	114.6	1.989	0.475	1.534	0.83	11.9
6.550	11.612	6	5	5.0E-05	117.7	2.009	0.494	1.523	0.83	11.8
6.650	11.941	6	5	5.0E-05	117.7	2.028	0.496	1.542	0.83	15.6
6.750	11.260	6	5	5.0E-05	114.6	2.049	0.526	1.561	0.83	15.6
6.850	11.599	6	5	5.0E-05	114.6	2.065	0.514	1.549	0.82	9.9
6.950	11.925	6	5	5.0E-05	114.6	2.084	0.527	1.561	0.80	11.7
7.050	11.263	6	5	5.0E-05	111.4	2.102	0.537	1.546	0.80	11.6
7.150	11.581	6	6	5.0E-03	120.9	2.123	0.541	1.576	0.80	10.5
7.250	11.709	6	6	5.0E-06	117.7	2.142	0.557	1.595	0.79	19.9
7.350	11.237	6	6	5.0E-05	124.3	2.162	0.568	1.575	0.79	29.5
7.450	11.565	6	6	5.0E-03	120.9	2.183	0.578	1.595	0.78	33.9
7.550	11.893	6	6	5.0E-02	126.1	2.203	0.599	1.615	0.78	26.9
7.650	11.885	6	6	5.0E-02	126.1	2.223	0.594	1.575	0.77	22.0
7.750	11.877	6	6	5.0E-03	120.9	2.243	0.607	1.614	0.76	17.9
7.850	11.869	6	6	5.0E-04	117.7	2.262	0.619	1.653	0.76	9.5
7.950	11.861	6	5	5.0E-05	114.6	1.781	0.629	1.692	0.78	7.6
8.050	11.853	6	5	5.0E-05	114.6	2.299	0.671	1.668	0.77	23.7
8.150	11.845	6	5	5.0E-05	114.6	2.318	0.649	1.669	0.77	15.1
8.250	11.837	6	5	5.0E-05	114.6	2.337	0.670	1.677	0.77	19.2
8.350	11.829	6	5	5.0E-05	114.6	2.356	0.670	2.065	0.77	24.6
8.450	11.821	6	5	5.0E-04	114.6	2.375	0.660	1.694	0.77	8.5
8.550	11.813	6	5	5.0E-04	114.6	2.393	0.690	1.703	0.77	6.2
8.650	11.805	6	5	5.0E-05	114.6	2.412	0.701	1.711	0.76	5.0
8.750	11.797	6	5	5.0E-05	117.7	2.431	0.711	1.720	0.76	24.9
8.850	11.789	6	5	5.0E-05	117.7	2.450	0.721	1.729	0.76	16.2
8.950	11.781	6	5	5.0E-04	126.1	2.470	0.731	1.719	0.74	10.7
9.050	11.773	6	6	5.0E-03	126.1	2.491	0.742	1.748	0.75	61.5
9.150	11.765	6	6	5.0E-03	126.1	2.510	0.752	1.758	0.75	24.4
9.250	11.757	6	6	5.0E-05	126.1	2.529	0.762	1.767	0.75	78.7
9.350	11.749	6	5	5.0E-05	114.6	2.548	0.772	1.776	0.75	3.9
9.450	11.741	6	5	5.0E-05	111.4	2.568	0.782	1.742	0.75	4.5
9.550	11.733	6	5	5.0E-05	114.6	2.587	0.792	1.792	0.75	6.1
9.650	11.725	6	5	5.0E-05	114.6	2.606	0.802	1.801	0.75	8.4
9.750	11.717	6	5	5.0E-05	114.6	2.625	0.813	1.809	0.76	9.7
9.850	11.709	6	5	5.0E-05	114.6	2.645	0.824	1.817	0.74	56.3
9.950	11.701	6	5	5.0E-05	114.6	2.664	0.834	1.826	0.74	72.1
10.050	11.693	6	5	5.0E-05	117.7	2.683	0.844	1.930	0.74	67.1
10.150	11.685	6	5	5.0E-05	117.7	2.702	0.854	1.838	0.73	21.2
10.250	11.677	6	5	5.0E-05	114.6	2.722	0.865	1.864	0.73	28.8
10.350	11.669	6	5	5.0E-05	114.6	2.741	0.875	1.963	0.73	10.4
10.450	11.661	6	5	5.0E-05	114.6	2.760	0.885	1.872	0.73	29.0
10.550	11.653	6	5	5.0E-05	114.6	2.780	0.895	1.880	0.73	34.5
10.650	11.645	6	5	5.0E-05	114.6	2.799	0.906	1.889	0.73	39.8
10.750	11.637	6	5	5.0E-05	114.5	2.818	0.916	1.897	0.73	34.6
10.850	11.629	6	5	5.0E-05	114.6	2.837	0.926	1.906	0.73	19.5
10.950	11.621	6	5	5.0E-05	114.6	2.857	0.936	1.914	0.73	14.3
11.050	11.613	6	5	5.0E-05	114.6	2.876	0.947	1.923	0.72	13.0
11.150	11.605	6	5	5.0E-05	114.6	2.895	0.957	1.932	0.72	22.5

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-03	Col-04	Col-05	Col-06	Col-07	Col-08	Col-09	Col-10	Col-11	Col-12
15.250	50.033	5	6	5.9E-04	117.7	2.908	0.567	1.731	0.72	16.6	
15.365	50.360	8	4	3.0E-05	114.6	2.927	0.931	1.950	0.72	21.4	
15.460	50.688	8	5	5.0E-05	114.4	2.949	0.936	1.954	0.71	20.9	
15.560	51.016	5	5	5.9E-05	114.6	2.966	0.998	1.987	0.71	21.9	
15.660	51.345	7	5	5.0E-05	114.6	2.983	1.003	1.995	0.71	22.5	
15.760	51.673	7	5	5.0E-05	114.6	3.000	1.018	1.936	0.71	24.5	
15.860	52.001	8	5	5.0E-05	114.6	3.021	1.029	1.992	0.71	23.5	
15.960	52.329	6	5	5.0E-05	114.6	3.049	1.035	2.001	0.71	19.7	
16.060	52.660	8	6	6.0E-04	117.7	3.059	1.049	2.011	0.71	21.6	
16.150	52.956	7	5	5.0E-05	114.6	3.079	1.059	2.019	0.70	17.1	
16.250	53.285	7	5	5.0E-05	114.6	3.097	1.069	2.029	0.70	18.3	
16.350	53.613	7	5	5.0E-05	114.6	3.115	1.080	2.034	0.70	19.9	
16.450	53.969	6	4	5.0E-06	114.1	3.136	1.090	2.044	0.70	9.0	
16.550	54.297	7	4	5.0E-06	114.6	3.153	1.100	2.053	0.70	10.7	
16.650	54.625	7	5	5.0E-05	114.6	3.172	1.110	2.061	0.70	18.8	
16.750	54.953	8	5	5.0E-05	114.6	3.191	1.121	2.070	0.70	21.2	
16.852	55.283	8	5	5.0E-05	114.6	3.209	1.131	2.078	0.69	21.3	
16.950	55.610	8	5	5.0E-05	114.4	3.228	1.141	2.087	0.69	34.6	
17.050	55.938	9	6	1.0E-04	117.7	3.247	1.151	2.096	0.69	97.6	
17.150	56.266	10	6	1.0E-04	120.9	3.267	1.162	2.105	0.69	156.5	
17.250	56.594	10	6	1.0E-04	120.9	3.287	1.172	2.115	0.69	113.6	
17.350	56.922	9	6	1.0E-04	120.9	3.315	1.182	2.124	0.69	48.9	
17.450	57.250	9	5	5.0E-05	114.6	3.326	1.192	2.137	0.68	25.6	
17.550	57.578	9	5	5.0E-05	114.6	3.345	1.202	2.142	0.68	19.8	
17.650	57.906	7	4	5.0E-06	114.6	3.363	1.213	2.150	0.68	6.9	
17.750	58.234	7	4	3.0E-06	117.7	3.382	1.223	2.159	0.68	5.1	
17.850	58.562	6	4	5.0E-05	114.6	3.401	1.233	2.168	0.68	5.3	
17.950	58.890	6	4	5.0E-05	114.6	3.420	1.244	2.177	0.68	5.3	
18.050	59.219	6	4	5.0E-05	114.6	3.439	1.254	2.186	0.68	6.5	
18.150	59.547	5	3	3.0E-05	114.6	3.458	1.264	2.194	0.68	6.5	
18.250	59.875	4	2	1.0E-05	114.6	3.477	1.274	2.203	0.67	5.5	
18.350	60.203	4	3	5.0E-07	114.6	3.495	1.285	2.211	0.67	4.9	
18.450	60.531	4	3	5.0E-05	114.6	3.514	1.295	2.219	0.67	5.0	
18.550	60.859	4	3	5.0E-05	114.6	3.533	1.306	2.228	0.67	5.5	
18.650	61.187	4	3	5.0E-05	114.6	3.552	1.316	2.237	0.67	5.2	
18.750	61.516	4	3	5.0E-05	114.6	3.571	1.326	2.245	0.67	5.0	
18.850	61.844	4	3	5.0E-05	114.6	3.589	1.336	2.254	0.67	4.6	
18.950	62.172	4	3	5.0E-05	114.6	3.608	1.346	2.262	0.66	4.5	
19.050	62.500	4	3	5.0E-05	114.6	3.627	1.356	2.271	0.66	5.0	
19.150	62.827	4	3	5.0E-05	114.6	3.646	1.367	2.279	0.66	5.2	
19.250	63.156	4	3	5.0E-05	114.6	3.665	1.377	2.288	0.66	5.5	
19.350	63.681	4	3	5.0E-05	114.6	3.683	1.387	2.296	0.66	5.4	
19.450	63.819	4	3	5.0E-05	114.6	3.702	1.397	2.305	0.66	5.1	
19.550	64.140	4	3	5.0E-05	114.6	3.721	1.408	2.313	0.65	4.8	
19.650	64.469	4	3	5.0E-05	114.6	3.740	1.418	2.322	0.65	4.9	
19.750	64.796	4	3	5.0E-05	114.6	3.759	1.428	2.331	0.65	4.7	
19.850	65.124	4	3	5.0E-05	114.6	3.777	1.439	2.339	0.65	4.4	
19.950	65.452	4	3	5.0E-05	114.6	3.796	1.449	2.348	0.65	4.6	
20.050	65.780	4	3	5.0E-05	114.6	3.815	1.459	2.356	0.65	4.7	
20.150	66.108	4	3	5.0E-05	114.6	3.834	1.469	2.365	0.65	5.0	
20.250	66.436	4	3	5.0E-05	114.6	3.853	1.479	2.373	0.65	5.2	
20.350	66.764	4	3	5.0E-05	114.6	3.871	1.489	2.382	0.65	5.0	
20.450	67.092	4	3	5.0E-05	114.6	3.890	1.500	2.390	0.65	4.9	
20.550	67.420	4	3	5.0E-05	114.6	3.909	1.510	2.399	0.65	5.0	
20.650	67.749	4	3	5.0E-05	114.6	3.928	1.520	2.408	0.65	5.2	
20.750	68.077	4	3	5.0E-05	114.6	3.947	1.530	2.416	0.65	5.6	
20.850	68.405	4	3	5.0E-05	114.6	3.965	1.541	2.425	0.64	4.9	
20.950	68.733	4	3	5.0E-05	114.6	3.984	1.551	2.433	0.64	4.7	
21.050	69.062	4	3	5.0E-05	114.6	4.003	1.561	2.442	0.64	4.7	
21.150	69.389	4	3	5.0E-05	114.6	4.022	1.571	2.450	0.64	4.8	

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Col-01 Depth (m)	Col-02 Depth (ft)	Col-12 Net-Q (tsf)	Col-13 Sat-Qp (tsf)	Col-14 Vesch (cm/s)	Col-15 Shear Mod (tsf)	Col-16 P Stress (tsf)	Col-17 U Stress (tsf)	Col-18 E Stress (tsf)	Col-19 OCR	Col-20 Phi (b/t)
21.250	69.717	4	3	5.0E-05	114.6	4.061	1.582	2.480	0.64	4.8
21.300	69.865	4	2	5.0E-05	114.6	4.059	1.592	2.487	0.64	5.0
21.350	70.013	4	3	5.0E-05	114.6	4.073	1.602	2.494	0.64	4.7
21.400	70.177	4	4	5.0E-05	114.6	4.097	1.612	2.485	0.64	5.1
21.450	70.325	4	4	5.0E-05	114.6	4.116	1.621	2.493	0.64	4.8
21.500	70.489	4	4	5.0E-05	114.6	4.135	1.631	2.502	0.63	5.0
21.550	70.653	4	4	5.0E-05	114.6	4.151	1.643	2.510	0.63	5.1
21.600	70.817	4	5	5.0E-05	114.6	4.172	1.653	2.519	0.63	5.2
21.650	70.965	4	5	5.0E-05	114.6	4.191	1.664	2.527	0.63	5.3
21.700	71.129	4	4	5.0E-05	114.6	4.210	1.676	2.536	0.63	5.2
21.750	71.293	4	4	5.0E-05	114.6	4.226	1.684	2.544	0.63	5.2
21.800	71.457	4	4	5.0E-05	114.6	4.247	1.695	2.553	0.62	5.1
21.850	71.605	4	4	5.0E-05	114.6	4.264	1.705	2.562	0.62	5.4
21.900	71.769	4	4	5.0E-05	114.6	4.285	1.715	2.570	0.62	4.9
21.950	71.934	4	4	5.0E-05	114.6	4.304	1.727	2.579	0.61	4.6
22.000	72.098	4	4	5.0E-05	114.6	4.322	1.735	2.587	0.62	5.0
22.050	72.262	4	5	5.0E-05	114.6	4.341	1.746	2.595	0.62	5.5
22.100	72.426	4	5	5.0E-05	114.6	4.360	1.756	2.604	0.62	5.4
22.150	72.590	4	4	5.0E-05	114.6	4.379	1.765	2.613	0.62	5.1
22.200	72.754	4	4	5.0E-05	114.6	4.396	1.776	2.621	0.62	5.1
22.250	72.918	4	4	5.0E-05	114.6	4.414	1.787	2.630	0.62	5.9
22.300	73.082	4	5	5.0E-05	114.6	4.433	1.797	2.638	0.62	5.3
22.350	73.246	4	5	5.0E-05	114.6	4.450	1.807	2.647	0.61	4.8
22.400	73.410	4	4	5.0E-05	114.6	4.469	1.817	2.656	0.61	5.0
22.450	73.574	4	4	5.0E-05	114.6	4.486	1.828	2.664	0.61	5.0
22.500	73.737	4	4	5.0E-05	114.6	4.497	1.836	2.673	0.61	5.3
22.550	73.901	4	4	5.0E-05	114.6	4.510	1.843	2.681	0.61	5.2
22.600	74.065	4	4	5.0E-05	114.6	4.527	1.853	2.690	0.61	5.0
22.650	74.229	4	4	5.0E-05	114.6	4.538	1.855	2.698	0.61	5.2
22.700	74.393	4	4	5.0E-05	114.6	4.547	1.866	2.707	0.61	5.2
22.750	74.557	4	4	5.0E-05	114.6	4.560	1.879	2.715	0.61	5.4
22.800	74.721	4	4	5.0E-05	114.6	4.604	1.919	2.724	0.61	5.5
22.850	74.885	4	4	5.0E-05	114.6	4.621	1.897	2.733	0.42	5.0
22.900	75.049	4	4	5.0E-05	114.6	4.642	1.901	2.741	0.60	4.6
22.950	75.213	4	4	5.0E-05	114.6	4.661	1.920	2.750	0.60	5.1
23.000	75.377	4	4	5.0E-05	114.6	4.680	1.930	2.759	0.60	5.7
23.050	75.541	4	4	5.0E-05	114.6	4.699	1.940	2.767	0.10	5.7
23.100	75.705	4	4	5.0E-05	114.6	4.717	1.951	2.776	0.10	6.0
23.150	75.869	4	4	5.0E-05	114.6	4.736	1.961	2.784	0.60	5.3
23.200	76.033	4	4	5.0E-05	114.6	4.755	1.971	2.792	0.60	5.3
23.250	76.197	4	4	5.0E-05	114.6	4.774	1.981	2.801	0.10	5.3
23.300	76.361	4	4	5.0E-05	114.6	4.792	1.991	2.810	0.60	5.6
23.350	76.525	4	4	5.0E-05	114.6	4.811	2.002	2.818	0.60	6.2
23.400	76.689	4	4	5.0E-05	114.6	4.830	2.012	2.827	0.59	6.9
23.450	76.853	4	4	5.0E-05	114.6	4.849	2.022	2.835	0.59	5.6
23.500	77.017	4	4	5.0E-05	114.6	4.868	2.032	2.844	0.59	4.4
23.550	77.181	4	5	5.0E-05	114.6	4.886	2.043	2.853	0.59	6.1
23.600	77.345	4	5	5.0E-05	114.6	4.905	2.053	2.861	0.59	6.2
23.650	77.509	4	4	5.0E-05	114.6	4.924	2.063	2.870	0.59	5.9
23.700	77.673	4	4	5.0E-05	114.6	4.943	2.073	2.879	0.59	5.5
23.750	77.837	4	4	5.0E-05	114.6	4.962	2.084	2.887	0.59	6.4
23.800	78.001	4	4	5.0E-05	114.6	4.980	2.094	2.896	0.59	7.4
23.850	78.165	4	4	5.0E-05	114.6	4.999	2.104	2.904	0.59	7.6
23.900	78.329	4	4	5.0E-05	114.6	5.018	2.115	2.913	0.59	7.6
23.950	78.493	4	4	5.0E-05	114.6	5.037	2.125	2.921	0.59	6.9
24.000	78.657	4	4	5.0E-05	114.6	5.056	2.136	2.929	0.59	6.5
24.050	78.821	4	5	5.0E-05	114.6	5.074	2.145	2.938	0.59	7.3
24.100	78.985	4	5	5.0E-05	114.6	5.093	2.155	2.946	0.58	8.6
24.150	79.149	4	4	5.0E-05	114.6	5.112	2.165	2.955	0.58	9.0
24.200	79.313	4	4	5.0E-05	114.6	5.131	2.176	2.963	0.58	9.7
24.250	79.477	4	5	5.0E-05	114.6	5.149	2.186	2.972	0.58	9.8
24.300	79.641	4	5	5.0E-05	114.6	5.168	2.196	2.980	0.58	9.8
24.350	79.805	4	4	5.0E-05	114.6	5.187	2.207	2.989	0.58	9.8
24.400	79.969	4	4	5.0E-05	114.6	5.206	2.217	2.997	0.58	9.8
24.450	80.133	4	4	5.0E-05	114.6	5.225	2.227	3.006	0.58	9.8
24.500	80.297	4	4	5.0E-05	114.6	5.243	2.238	3.014	0.58	9.8
24.550	80.461	4	4	5.0E-05	114.6	5.262	2.248	3.023	0.58	9.8
24.600	80.625	4	4	5.0E-05	114.6	5.281	2.258	3.031	0.58	9.8
24.650	80.789	4	4	5.0E-05	114.6	5.300	2.269	3.040	0.58	9.8
24.700	80.953	4	4	5.0E-05	114.6	5.319	2.279	3.048	0.58	9.8
24.750	81.117	4	4	5.0E-05	114.6	5.337	2.290	3.057	0.58	9.8
24.800	81.281	4	4	5.0E-05	114.6	5.356	2.300	3.065	0.58	9.8
24.850	81.445	4	4	5.0E-05	114.6	5.375	2.311	3.074	0.58	9.8
24.900	81.609	4	4	5.0E-05	114.6	5.394	2.321	3.082	0.58	9.8
24.950	81.773	4	4	5.0E-05	114.6	5.413	2.332	3.091	0.58	9.8
25.000	81.937	4	4	5.0E-05	114.6	5.431	2.342	3.099	0.58	9.8
25.050	82.101	4	4	5.0E-05	114.6	5.450	2.353	3.108	0.58	9.8
25.100	82.265	4	4	5.0E-05	114.6	5.469	2.363	3.116	0.58	9.8
25.150	82.429	4	4	5.0E-05	114.6	5.488	2.374	3.125	0.58	9.8
25.200	82.593	4	4	5.0E-05	114.6	5.507	2.384	3.133	0.58	9.8
25.250	82.757	4	4	5.0E-05	114.6	5.525	2.395	3.142	0.58	9.8
25.300	82.921	4	4	5.0E-05	114.6	5.544	2.405	3.150	0.58	9.8
25.350	83.085	4	4	5.0E-05	114.6	5.563	2.416	3.159	0.58	9.8
25.400	83.249	4	4	5.0E-05	114.6	5.582	2.426	3.167	0.58	9.8
25.450	83.413	4	4	5.0E-05	114.6	5.601	2.437	3.176	0.58	9.8
25.500	83.577	4	4	5.0E-05	114.6	5.619	2.447	3.184	0.58	9.8
25.550	83.741	4	4	5.0E-05	114.6	5.638	2.458	3.193	0.58	9.8
25.600	83.905	4	4	5.0E-05	114.6	5.657	2.468	3.201	0.58	9.8
25.650	84.069	4	4	5.0E-05	114.6	5.676	2.479	3.210	0.58	9.8
25.700	84.233	4	4	5.0E-05	114.6	5.695	2.489	3.218	0.58	9.8
25.750	84.397	4	4	5.0E-05	114.6	5.713	2.500	3.227	0.58	9.8
25.800	84.561	4	4	5.0E-05	114.6	5.732	2.510	3.235	0.58	9.8
25.850	84.725	4	4	5.0E-05	114.6	5.751	2.521	3.244	0.58	9.8
25.900	84.889	4	4	5.0E-05	114.6	5.770	2.531	3.252	0.58	9.8
25.950	85.053	4	4	5.0E-05	114.6	5.789	2.542	3.261	0.58	9.8
26.000	85.217	4	4	5.0E-05	114.6	5.807	2.552	3.269	0.58	9.8
26.050	85.381	4	4	5.0E-05	114.6	5.826	2.563	3.278	0.58	9.8
26.100	85.545	4	4	5.0E-05	114.6	5.845	2.573	3.286	0.58	9.8
26.150	85.709	4	4	5.0E-05	114.6	5.864	2.584	3.295	0.58	9.8
26.200	85.873	4	4	5.0E-05	114.6	5.883	2.594	3.303	0.58	9.8
26.250	86.037	4	4	5.0E-05	114.6	5.901	2.605	3.312	0.58	9.8
26.300	86.201	4	4	5.0E-05	114.6	5.920	2.615	3.320	0.58	9.8
26.350	86.365	4	4	5.0E-05	114.6	5.939	2.626	3.329	0.58	9.8
26.400	86.529	4	4	5.0E-05	114.6	5.958	2.636	3.337	0.58	9.8
26.450	86.693	4	4	5.0E-05	114.6	5.977	2.647	3.346	0.58	9.8
26.500	86.857	4	4	5.0E-05	114.6	5.995	2.657	3.354	0.58	9.8
26.550	87.021	4	4	5.0E-05	114.6	6.014	2.668	3.363	0.58	9.8
26.600	87.185	4	4	5.0E-05	114.6	6.033	2.678	3.371	0.58	9.8
26.650	87.349	4	4	5.0E-05	114.6	6.052	2.689	3.380	0.58	9.8
26.700	87.513	4	4	5.0E-05	114.6	6.071	2.699	3.388	0.58	9.8
26.750	87.677	4	4	5.0E-05	114.6	6.089	2.710	3.397	0.58	9.8
26.800	87.841	4	4	5.0E-05	114.6	6.108	2.720	3.405	0.58	9.8
26.850	88.005	4	4	5.0E-05	114.6	6.127	2.731	3.414	0.58	9.8
26.900	88.169	4	4	5.0E-05	114.6	6.146	2.741	3.422	0.58	9.8
26.950	88.333	4	4	5.0E-05	114.6	6.165	2.752	3.431	0.58	9.8
27.000	88.497	4	4	5.0E-05	114.6	6.183	2.762	3.439	0.58	9.8
27.050	88.661	4	4	5.0E-05	114.6	6.202	2.773	3.448	0.58	9.8
27.100	88.825	4	4	5.0E-05	114.6	6.221	2.783	3.456	0.58	9.8
27.150	88.989	4	4	5.0E-05	114.6	6.240	2.794	3.465	0.58	9.8
27.200	89.153	4	4	5.0E-05	114.6	6.259	2.804	3.473	0.58	9.8
27.250	89.317	4	4	5.0E-05	114.6	6.277	2.815	3.482	0.58	9.8
27.300	89.481	4	4	5.0E-05	114.6	6.296	2.825	3.490	0.58	9.8
27.350	89.645	4	4	5.0E-05	114.6	6.315	2.836	3.499	0.58	9.8
27.400	89.809	4	4	5.0E-05	114.6	6.334	2.846	3.507	0.58	9.8
27.450	89.973	4	4	5.0E-05	114.6	6.353	2.857	3.516	0.58	9.8
27.500	90.137	4	4	5.0E-05	114.6	6.371	2.867	3.524	0.58	9.8
27.550	90.301	4	4	5.0E-05	114.6	6.390	2.878	3.533	0.58	9.8
27.600	90.465	4	4	5.0E-05	114.6	6.409	2.888	3.541	0.58	9.8
27.650	90.629	4	4	5.0E-05	114.6	6.428	2.899	3.550	0.58	9.8
27.700	90.793	4	4	5.0E-05	114.6	6.447	2.909	3.558	0.58	9.8
27.750	90.957	4	4	5.0E-05	114.6	6.465	2.920	3.567	0.58	9.8
27.800	91.121	4	4	5.0E-05	114.6	6.484	2.930	3.575	0.58	9.8
27.850	91.285	4	4	5.0E-05	114.6	6.503	2.941	3.584	0.58	9.8
27.900	91.449	4	4	5.0E-05	114.6	6.522	2.951	3.592	0.58	9.8
27.950	91.613	4	4	5.0E-05	114.6	6.541	2.962	3.601	0.58	9.8
28.000	91.777	4	4	5.0E-05	114.6	6.559	2.972	3.609	0.58	9.8
28.050	91.941	4	4	5.0E-05	114.6	6.578	2.983	3.618	0.58	9.8
28.100	92.105	4	4	5.0E-05	114.6	6.597	2.993	3.626	0.58	9.8
28.150	92.269	4	4	5.0E-05	114.6	6.616	3.004	3.635	0.58	9.8
28.200	92.433	4	4	5.0E-05	114.6	6.635	3.014	3.643	0.58	9.8
28.250	92.597	4	4	5.0E-05	114.6	6.654	3.025	3.652	0.58	9.8
28.300	92.761	4	4	5.0E-05	114.6	6.672	3.035	3.660	0.58	9.8
28.350	92.925	4	4	5.0E-05	114.6	6.691	3.046	3.669	0.58	9.8
28.400	93.089	4	4	5.0E-05	114.6	6.710	3.056	3.677	0.58	9.8
28.450	93.253	4	4	5.0E-05	114.6	6.729	3.067	3.686	0.58	9.8
28.500	93.417	4	4	5.0E-05	114.6	6.748	3.077	3.694	0.58	9.8
28.550	93.581	4	4	5.0E-05	114.6	6.767	3.088	3.703	0.58	9.8
28.600	93.745	4	4	5.0E-05	114.6	6.785	3.098	3.711	0.58	9.8
28.650	93.909	4	4	5.0E-05	114.6	6.804	3.109	3.720	0.58	9.8
28.700	94.073	4	4	5.0E-05	114.6	6.823	3.119	3.728	0.58	9.8
28.750	94.237	4	4	5.0E-05	114.6	6.842	3.130	3.737	0.58	9.8
28.800	94.401	4	4	5.0E-05	114.6	6.861	3.140	3.745	0.58	9.8
28.850	94.565	4	4	5.0E-05	114.6	6.880	3.151	3.754	0.58	9.8
28.900	94.729	4	4	5.0E-05	114.6	6.898	3.161	3.762	0.58	9.8
28.950	94.893	4	4	5.0E-05	114.6	6.917	3.172	3.771	0.58	9.8
29.000	95.057	4	4	5.0E-05	114.6	6.936	3.182	3.779	0.58	9.8
29.050	95.221	4	4	5.0E-05	114.6	6.955	3.193	3.788	0.58	9.8
29.100	95.385	4	4	5.0E-05	114.6	6.974	3.203	3.796	0.58	9.8
29.150	95.549	4	4	5.0E-05	114.6	6.993	3.214	3.805	0.58	9.8
29.200	95.713	4	4	5.0E-05	114.6	7.011	3.224	3.813	0.58	9.8
29.250	95.877	4	4	5.0E-05	114.6	7.030	3.235	3.822	0.58	9.8
29.300	96.041	4	4	5.0E-05	114.6	7.049	3.245	3.830	0.58	9.8
29.350	96.205	4	4	5.0E-05	114.6	7.068	3.256	3.839	0.58	9.8
29.400	96.369	4	4	5.0E-05	114.6	7.087	3.266	3.847	0.58	9.8
29.450	96.533	4	4	5.0E-05	114.6	7.106	3.277	3.856	0.58	9.8
29.500	96.697	4	4	5.0E-05	114.6	7.124	3.287	3.864	0.58	9.8
29.550	96.861	4	4	5.0E-05	114.6	7.143	3.298	3.873	0.58	9.8
29.600	97.025	4	4	5.0E-05	114.6	7.162	3.308	3.881	0.58	9.8
29.650	97.189	4	4	5.0E-05	114.6	7.181	3.319	3.890	0.58	9.8
29.700	97.353	4	4	5.0E-05	114.6	7.200	3.329	3.898	0.58	9.8
29.750	97.517	4	4	5.0E-05	114.6	7.219	3.340	3.907	0.58	9.8
29.800	97.681	4	4	5.0E-05	114.6	7.237	3.350	3.915	0.58	9.8
29.850	97.845	4	4	5.0E-05	114.6	7.256	3.361	3.924	0.58	9.8
29.900	98.009	4	4	5.0E-05	114.6	7.275	3.371	3.932	0.58	9.8
29.950	98.173	4	4	5.0E-05	114.6	7.294	3.382	3.941	0.58	9.8
30.000	98.337	4	4	5.0E-05	114.6	7.313	3.392	3.949	0.58	9.8
30.050	98.501	4	4	5.0E-05	114.6	7.332	3.403	3.958	0.58	9.8
30.100	98.665	4	4	5.0E-05	114.6	7.350	3.413	3.966	0.58	9.8
30.150	98.829	4	4	5.0E-05	114.6	7.369	3.424	3.975	0.58	9.8
30.200	98.993	4	4	5.0E-05	114.6	7.388	3.434	3.983	0.58	9.8
30.250	99.157	4	4	5.0E-05	114.6	7.407	3.445	3.992	0.58	9.8
30.300	99.321	4	4	5.0E-05	114.6	7.426	3.455	4.000	0.58	9.8
30.350	99.485	4	4	5.0E-05	114.6	7.445	3.466	4.009	0.58	9.8
30.400	99.649	4	4	5.0E-05	114.6	7.463	3.476	4.017	0.58	9.8
30.450	99.813	4	4	5.0E-05	114.6	7.482	3.487	4.026	0.58	9.8
30.500	99.977	4	4	5.0E-05	114.6	7.501	3.497	4.034	0.58	9.8
30.550	100.141	4	4	5.0E-05	114.6	7.520	3.508	4.043	0.58	9.8
30.600	100.305	4	4	5.0E-05	114.6	7.539	3.518	4.051	0.58	9.8
30.650	100.469	4	4	5.0E-05	114.6	7.558	3.529	4.060	0.58	9.8
30.700	100.633	4	4	5.0E-05	114.6	7.576	3.539	4.068	0.58	9.8
30.750	100.797	4	4	5.0E-05	114.6	7.595	3.550	4.077	0.58	9.8
30.800	100.961	4	4	5.0E-05	114.6	7.614	3.560	4.085	0.58	9.8
30.850	101.125	4	4	5.0E-05	114.6	7.633	3.571	4.094	0.58	9.8
30.900	101.289	4	4	5.0E-05	114.6	7.652	3.581	4.102	0.58	9.8
30.950	101.453	4	4	5.0E-05	114.6	7.671	3.592	4.111	0.58	9.8
31.000	101.617	4	4	5.0E-05	114.6	7.689	3.602	4.119	0.58	9.8
31.050	101.781	4	4	5.0E-05	114.6	7.708	3.613	4.128	0.58	9.8
31.100	101.945	4	4	5.0E-05	114.6	7.727	3.623	4.136	0.58	9.8
31.150	102.109	4	4	5.0E-05	114.6	7.746	3.634	4.145	0.58	9.8
31.200	102.273	4	4	5.0E-05	114.6	7.765	3.644	4.153	0.58	9.8
31.250	102.437	4	4	5.0E-05	114.6	7.784	3.655	4.162	0.58	9.8
31.300	102.601	4	4	5.0E-05	114.6	7.802	3.665	4.170	0.58	9.8
31.350	102.765	4	4	5.0E-05	114.6	7.821	3.676	4.179	0.58	9.8
31.400	102.929	4	4	5.0E-05	114.6	7.840	3.686	4.187	0.58	9.8
31.450	103.093	4	4	5.0E-05	114.6	7.859	3.697	4.196	0.58	9.8
31.500	103.257	4	4	5.0E-05	114.6	7.878	3.707	4.204	0.58	9.8
31.550	103.421	4	4	5.0E-05	114.6	7.897	3.718	4.213	0.58	9.8
31.600	103.585	4	4	5.0E-05	114.6	7.915	3.728	4.221	0.58	9.8
31.650	103.749	4	4	5.0E-05	114.6	7.934	3.739	4.230	0.58	9.8
31.700	103.913	4	4	5.0E-05	114.6	7.953	3.749	4.238	0.58	9.8
31.750	104.077	4	4	5.0E-05	114.6	7.972	3.760	4.247	0.58	9.8
31.800	104.241	4	4	5.0E-05	114.6	7.991	3.770	4.255	0.58	9.8
31.850	104.405	4	4	5.0E-05	114.6	8.010	3.781	4.264	0.58	9.8
31.900	104.569	4	4	5.0E-05	114.6	8.028	3.791	4.272	0.58	9.8
31.950	104.733	4	4	5.0E-05	114.6	8.047	3.802	4.281	0.58	9.8
32.000	104.897	4	4	5.0E-05	114.6	8.066	3.812	4.289	0.58	9.8
32.050	105.061	4	4	5.0E-05	114.6	8.085	3.823	4.298	0.58	9.8
32.100	105.225	4	4	5.0E-05	114.6	8.104	3.833	4.306	0.58	9.8
32.150	105.389	4	4	5.0E-05	114.6	8.123	3.844	4.315	0.58	9.8
32.200	105.553	4	4	5.0E-05	114.6	8.141	3.854	4.323	0.58	9.8
32.250	105.717	4	4	5.0E-05	114.6	8.160	3.865	4.332	0.58	9.8
32.300	105.881	4	4	5.0E-05	114.6	8.179	3.875	4.340	0.58	9.8
32.350	106.045	4	4	5.0E-05	114.6	8.198	3.886	4.349	0.58	9.8
32.400	106.209	4	4	5.0E-05	114.6	8.217	3.896	4.357	0.58	9.8
32.450	106.373	4	4	5.0E-05	114.6	8.236	3.907	4.366	0.58	9.8
32.500	106.537	4	4	5.0E-05	114.6	8.254	3.917	4.374	0.58	9.8
32.550	106.701	4	4	5.0E-05	114.6	8.273	3.928	4.383	0.58	9.8
32.600	106.865	4	4	5.0E-05	114.6	8.292	3.938	4.391	0.58	9.8
32.650	107.029	4	4	5.0E-05	114.6	8.311	3.949	4.400	0.58	9.8
32.700	107.193	4	4	5.0E-05	114.6	8.330	3.959	4.408	0.58	9.8
32.750	107.357	4	4	5.0E-05	114.6	8.349	3.970	4.417	0.58	9.8
32.800	107.521	4	4	5.0E-05	114.6	8.367	3.980	4.425	0.58	9.8
32.850	107.685	4	4	5.0E-05	114.6	8.386	3.991	4.434	0.58	9.8
32.900	107.849	4	4	5.0E-05	114.6	8.405	4.001	4.442	0.58	9.8
32.950	108.013	4	4	5.0E-05	114.6	8.424	4.012	4.451	0.58	9.8

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Col 01 Depth (m)	Col-02 Depth (ft)	Col-12 NBT-BQ (None)	Col-13 SBT-EZN (Zone)	Col-14 Perm-k (cm/s)	Col 15 Unit Wt (pcf)	Col-16 V Stress (tsf)	Col 17 U Stress (tsf)	Col-18 E Stress (tsf)	Col 19 Qn	Col-20 NBT (b/ft)
27.250	89.402	6	3	5.0E-05	114.6	5.162	2.196	2.972	0.58	9.2
27.350	89.730	5	3	5.0E-05	114.6	5.187	2.201	2.981	0.60	8.2
27.450	90.058	6	4	5.2E-05	114.6	5.206	2.217	2.989	0.54	11.6
27.550	90.386	6	4	5.0E-04	117.7	5.225	2.227	2.998	0.56	7.9
27.650	90.714	6	4	5.0E-05	114.6	5.244	2.237	3.007	0.58	11.5
27.750	91.042	9	6	5.0E-02	124.1	5.264	2.247	3.016	1.58	22.3
27.850	91.370	7	5	5.0E-02	124.1	5.284	2.256	3.026	0.67	31.3
27.950	91.698	9	6	5.0E-02	124.1	5.304	2.268	3.036	0.57	33.5
28.050	92.026	9	6	5.0E-02	124.1	5.325	2.278	3.046	0.57	35.0
28.150	92.354	7	6	5.0E-03	120.9	5.345	2.288	3.056	0.57	27.5
28.250	92.682	9	6	5.0E-02	124.1	5.365	2.299	3.065	0.57	30.0
28.350	93.011	9	6	5.0E-02	124.1	5.385	2.309	3.076	0.57	28.9
28.450	93.339	9	6	5.0E-04	117.7	5.405	2.319	3.086	0.57	41.1
28.550	93.667	9	6	5.2E-05	114.6	5.424	2.329	3.095	0.57	41.0
28.650	93.995	2	3	1.0E-05	110.5	5.444	2.340	3.105	0.57	77.1
28.750	94.323	6	5	1.0E-04	110.5	5.456	2.350	3.116	0.57	77.1
28.850	94.652	9	5	5.0E-04	110.5	5.487	2.360	3.127	0.57	83.1
28.950	94.979	9	6	5.0E-04	114.6	5.503	2.370	3.137	0.58	61.2
29.050	95.307	9	5	5.0E-05	114.6	5.525	2.381	3.146	0.56	57.9
29.150	95.635	9	5	5.0E-03	124.1	5.545	2.391	3.156	0.56	59.1
29.250	95.963	8	5	5.2E-04	114.6	5.565	2.401	3.166	0.56	52.8
29.350	96.291	E	5	1.0E-04	110.5	5.585	2.411	3.176	0.56	72.6
29.450	96.620	8	5	1.0E-04	110.5	5.607	2.422	3.186	0.56	50.1
29.550	96.948	8	5	1.0E-04	110.5	5.628	2.432	3.196	0.56	61.4
29.650	97.276	F	5	1.0E-04	110.5	5.648	2.442	3.207	0.56	56.6
29.750	97.604	8	5	1.0E-04	110.5	5.671	2.452	3.217	0.56	50.7
29.850	97.932	8	5	1.0E-04	110.5	5.692	2.463	3.227	0.56	54.8
29.950	98.260	9	6	1.0E-04	110.5	5.714	2.473	3.237	0.56	72.9
30.050	98.588	8	5	1.0E-04	110.5	5.735	2.483	3.252	0.55	75.1
30.150	98.916	9	5	1.0E-04	110.5	5.756	2.494	3.263	0.55	57.1
30.250	99.244	5	5	1.0E-04	110.5	5.778	2.504	3.274	0.55	69.7
30.350	99.572	5	5	1.0E-04	110.5	5.799	2.514	3.286	0.55	75.3
30.450	99.900	6	5	1.0E-04	110.5	5.821	2.524	3.297	0.55	74.4
30.550	100.229	9	6	5.0E-04	114.6	5.841	2.534	3.306	0.61	42.5
30.650	100.557	5	5	5.0E-02	124.1	5.862	2.545	3.316	0.55	82.3

GeoCon Inc. - CPT Interpretation
Interpretation Output Release 1.03 Rev. A - Build 5 Format: USP Imperial
Aut. No. 05-0307-1259-0115
Job No: 05-771
Client: GeoSystems Consultants
Project: Pigeon Point Landfill - Wilmington, Delaware
Date: CPT-05-0012
Location: Pigeon Point
Cone: 20 TON AD157
CPT Date: 01/07/03
CPT Time: 13:41
CPT File: 05CP12A.COR
Northing (m): 0.000000
Easting (m): 0.000000
Elevation (m): 0.000000

Water Table (ft): 5.91 Used: 19.7
Unit Weight of Water (pcf): 62.40 pcf
Averaging Increment (in): 0.10
Soil Unit Wt: 15.00 Delta (tsf): 0.30
Dr Method: Jamiolkowski - All Sands
Scale Parameter %: 1.00
Used Unit Weights Assigned to Dual Zones
Ic(Soil) Calculated Using Robertson
Ic(Rock) Calculated Using Hoek&Brown

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Ic(Soil) (Robertson)	Col-22 Ic(Rock) (Hoek&Brown)	Col-23 Ic(Soil) (Robertson)	Col-24 Qt	Col-25 Fr (%)	Col-26 Qp	Col-27 Ic	Col-28 Fr (%)	Col-29 Intact (Rock)
0.050	0.164	45.2	-9999.0	-9999.0	3000.00	0.79	< 0.0	-9999.0	-9999.0	0
0.100	0.492	217.3	-9999.0	-9999.0	3000.00	< 0.1	0.00	-9999.0	-9999.0	0
0.150	0.820	259.1	-9999.0	-9999.0	3000.00	0.60	0.00	-9999.0	-9999.0	0
0.200	1.148	153.9	-9999.0	-9999.0	3000.00	0.61	< 0.0	-9999.0	-9999.0	0
0.250	1.476	101.1	-9999.0	-9999.0	3000.00	0.83	0.00	-9999.0	-9999.0	0
0.300	1.804	98.5	-9999.0	-9999.0	1805.62	1.50	0.00	-9999.0	-9999.0	0
0.350	2.133	91.5	-9999.0	-9999.0	156.20	2.22	0.00	-9999.0	-9999.0	0
0.400	2.461	73.5	-9999.0	-9999.0	426.21	2.72	0.00	-9999.0	-9999.0	0
0.450	2.789	59.0	-9999.0	-9999.0	443.39	2.10	0.00	-9999.0	-9999.0	0
0.500	3.117	53.3	-9999.0	-9999.0	161.11	2.53	0.00	-9999.0	-9999.0	0
0.550	3.445	42.6	-9999.0	-9999.0	205.45	2.49	0.00	-9999.0	-9999.0	0
0.600	3.773	42.0	15.6	24.3	240.01	2.32	0.00	2.10	15.5	0
0.650	4.101	47.1	-9999.0	-9999.0	300.28	2.16	0.01	-9999.0	-9999.0	0
0.700	4.429	60.2	-9999.0	-9999.0	314.54	2.49	0.00	-9999.0	-9999.0	0
0.750	4.757	56.5	-9999.0	-9999.0	275.43	2.68	0.00	-9999.0	-9999.0	0
0.800	5.085	51.3	-9999.0	-9999.0	244.40	2.65	0.01	3.09	9999.0	0
0.850	5.413	49.1	19.6	46.9	220.17	2.69	0.00	-9999.0	20.0	0
0.900	5.741	46.1	-9999.0	-9999.0	200.46	2.73	0.00	1.91	-9999.0	0
0.950	6.069	41.8	-9999.0	-9999.0	456.75	2.90	0.00	-9999.0	-9999.0	0
1.000	6.399	74.6	-9999.0	-9999.0	391.06	2.97	0.00	-9999.0	-9999.0	0
1.050	6.726	72.9	-9999.0	-9999.0	300.29	3.04	0.00	1.94	7.8	0
1.100	7.054	32.8	19.1	23.8	197.53	2.72	0.00	2.22	19.3	0
1.150	7.382	22.2	9.9	19.1	101.60	3.36	0.03	2.39	26.3	0
1.200	7.710	15.6	5.5	9.8	39.30	3.88	0.02	2.41	26.6	0
1.250	8.038	13.3	5.7	3.4	41.27	3.65	0.03	2.33	24.8	0
1.300	8.366	21.4	12.7	18.3	121.02	3.78	0.01	2.03	21.0	0
1.350	8.695	14.5	24.3	24.6	224.90	2.27	0.01	-9999.0	-9999.0	0
1.400	9.022	35.3	-9999.0	-9999.0	238.04	2.69	0.01	-9999.0	-9999.0	0
1.450	9.350	43.5	-9999.0	9999.0	182.79	2.46	0.01	3.15	24.4	0
1.500	9.678	25.7	13.4	16.4	102.19	3.24	0.02	2.57	21.9	0
1.550	10.006	22.2	8.9	11.8	59.31	3.56	0.01	2.16	21.7	0
1.600	10.334	20.3	11.1	15.9	92.61	3.54	0.01			0

Run No: 05-0326-1750 [illegible]
CPT File: 721CPT2A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Ni1501 (b/ft)	Col-22 Ni1601c (b/ft)	Col-23 Ni1u01c (b/ft)	Col-24 Qt	Col-25 Fr (%)	Col-26 Bq	Col-27 Qt	Col-28 SC (%)	Col-29 Saturation (zone)
3.200	10.662	25.6	21.4	14.6	76.79	2.74	0.00	7.47	25.0	5
3.350	10.994	27.4	13.2	14.2	70.01	3.47	0.00	2.46	29.1	5
3.500	11.319	49.2	76.5	31.7	131.75	5.98	0.05	1.99	32.7	6
3.650	11.647	52.9	26.6	22.5	196.42	1.87	0.00	1.94	11.8	5
3.800	11.976	16.9	9.1	11.1	51.47	2.85	-0.01	2.49	18.2	5
3.950	12.303	16.1	5.9	8.2	78.49	1.76	-0.02	2.70	40.5	4
4.100	12.631	24.1	4.2	9.1	35.20	3.51	0.00	2.63	35.9	5
4.250	12.959	17.4	8.3	10.5	40.74	3.83	0.01	2.60	35.6	6
4.400	13.287	20.1	9.6	10.8	46.26	4.14	0.09	2.53	31.9	5
4.550	13.615	26.9	12.9	14.5	72.27	3.75	0.00	3.22	19.5	5
4.700	13.944	19.6	11.1	12.8	55.58	3.24	0.03	2.10	29.8	5
4.850	14.272	19.6	7.6	9.2	32.13	4.65	0.03	2.72	41.3	4
5.000	14.600	19.5	5.0	6.6	20.97	4.89	0.01	2.61	50.6	6
5.150	14.928	11.9	5.1	5.6	18.28	4.62	0.01	2.50	53.6	4
5.300	15.256	10.6	4.9	4.6	12.71	4.52	0.02	3.02	59.7	3
5.450	15.584	11.6	6.2	7.5	24.52	2.93	0.03	2.69	38.7	4
5.600	15.912	15.0	9.5	10.2	41.70	2.26	0.00	2.44	25.1	5
5.750	16.240	14.2	9.9	9.6	37.05	2.72	0.00	2.53	31.9	5
5.900	16.568	19.9	11.6	12.2	56.52	1.75	0.00	2.19	18.2	5
6.050	16.896	8.1	9.7	9.8	20.61	2.58	0.00	2.69	35.8	4
6.200	17.224	9.3	6.3	6.6	21.32	1.74	-0.01	2.56	34.4	5
6.350	17.552	16.6	12.6	12.7	46.66	1.53	0.00	2.21	19.6	5
6.500	17.880	11.0	9.7	9.7	28.02	1.79	0.00	2.38	28.6	5
6.650	18.208	8.6	8.5	8.1	16.43	2.20	-0.01	2.54	48.2	4
6.800	18.537	7.4	5.5	5.0	17.56	2.00	0.02	2.70	41.6	4
6.950	18.865	12.7	3.0	8.6	30.68	2.57	0.02	2.54	34.1	5
7.100	19.193	11.8	5.1	9.4	33.65	2.10	0.02	2.39	32.0	5
7.250	19.521	16.0	12.0	11.6	46.36	1.76	0.01	2.30	27.9	5
7.400	19.849	13.4	8.0	9.3	25.27	1.07	-0.01	2.06	39.4	4
7.550	20.177	15.1	9.1	9.1	28.53	3.04	0.01	2.66	38.4	4
7.700	20.505	14.3	8.2	7.2	24.83	3.51	0.00	2.71	42.9	4
7.850	20.833	18.4	11.3	11.6	43.64	2.44	-0.01	2.31	32.0	5
8.000	21.161	10.6	5.7	4.8	14.10	4.48	0.01	2.98	56.8	3
8.150	21.489	5.5	2.8	3.0	6.32	5.38	0.02	3.44	65.0	3
8.300	21.817	12.6	7.9	6.6	21.03	3.07	0.00	2.73	41.2	4
8.450	22.145	14.4	13.3	12.4	45.43	2.84	-0.00	2.44	28.1	5
8.600	22.473	19.8	18.2	12.3	46.16	2.32	0.00	2.27	21.9	5
8.750	22.802	27.0	25.7	16.1	75.96	1.86	0.00	2.15	17.4	5
8.900	23.130	20.6	11.6	11.0	37.41	3.42	0.00	2.35	32.7	5
9.050	23.458	17.9	12.6	11.4	40.44	3.16	-0.03	2.46	29.3	5
9.200	23.786	25.1	14.6	13.5	16.36	4.17	0.00	2.64	32.7	5
9.350	24.114	21.1	11.9	16.4	56.10	4.87	0.00	2.54	32.4	5
9.500	24.442	27.1	79.5	15.0	71.57	3.91	-0.00	2.35	27.2	5
9.650	24.770	16.0	11.6	10.3	36.02	2.60	0.03	2.48	25.6	5
9.800	25.098	24.8	3.4	7.5	26.35	3.67	0.01	2.69	40.1	4
9.950	25.426	19.4	13.1	12.4	41.62	2.83	0.00	2.44	27.5	5
10.100	25.754	16.5	11.7	10.4	36.19	2.23	0.00	2.41	27.6	5
10.250	26.082	11.5	8.9	7.9	30.40	0.68	0.00	2.19	18.1	5
10.400	26.410	11.7	9.4	8.9	30.91	1.13	-0.01	2.61	29.7	5
10.550	26.738	-9999.0	7.1	-9999.0	24.96	6.11	0.11	1.15	69.1	1
10.700	27.067	10.0	7.8	6.1	17.16	5.67	0.02	1.96	57.3	3
10.850	27.395	11.9	8.3	7.8	21.67	3.03	0.00	2.46	38.3	5
11.000	27.723	7.1	5.9	4.2	14.79	3.66	0.02	2.72	41.4	4
11.150	28.051	7.3	6.3	6.1	25.13	2.50	0.05	2.48	19.5	4
11.300	28.379	9.2	7.0	5.5	17.20	3.31	0.03	2.75	42.9	4
11.450	28.707	34.1	34.4	33.1	161.44	0.36	0.00	1.46	2.5	1
11.600	29.035	37.9	40.5	17.8	201.71	0.26	0.00	1.27	0.7	1
11.750	29.363	36.1	31.5	29.1	129.12	1.27	0.00	1.85	9.4	5
11.900	29.691	24.8	17.4	15.1	53.66	2.03	0.00	2.38	26.4	5
12.050	30.019	24.8	12.0	10.4	34.03	2.75	0.00	2.49	30.6	5

P No 05-1208-1750-0115
DrT 11/94 921EM2A.COR

Col-01 Depth (ft)	Col-07 Depth (ft)	Col-21 RT(60) (Ω/ft)	Col-22 RT(60)HR (Ω/ft)	Col-23 RT(60)HR (Ω/ft)	Col-24 CT	Col-25 TT (s)	Col-26 Sq	Col-27 Te	Col-28 SC (s)	Col-29 DeZone (Zone)	
9,250	30 347	15.4	12 4	10 7	16.71	2 61	0.10	3.43	30 1		S
9 367	30.675	12 9	10 9	9.6	21.03	2.32	0.07	2 91	32.1		S
9 450	31.004	16 1	14 C	12 0	62 19	1.89	0 00	3.31	22 8		S
9,550	31 332	25.0	17.7	15.1	53.35	2 36	0.00	3.50	12 6		S
9 650	31.660	19 3	7 3	9.7	14.71	5.12	0 06	3 04	41.1		S
9,750	31 988	8.7	1.4	6 5	58.24	1.41	0 50	2.42	29.7		S
9,850	32 316	10.0	8.5	5.7	20.34	2 21	0.00	2 67	38.5		S
9 950	32.644	17.8	16.5	15.6	59.66	1.24	0.00	2 06	13.1		S
10,050	32.972	11.4	11.0	6.7	23.25	1.12	0.00	1.71	41.4		S
10,150	33.300	17.5	15.2	7.4	27.14	2.50	0.00	2.62	26 4		S
10 250	33.628	18.4	14.6	12.0	37 98	3.05	0.00	2.48	25 7		S
10,350	33 955	14.3	8.7	5.6	17.65	4.62	0.00	2.90	62 5		S
10,450	34.284	14.6	17.0	10.8	35 81	1.55	0.00	2.36	25.0		S
10,550	34.611	14.5	14.3	10 7	35 52	1.97	0.00	2.37	29 7		S
10,650	34.941	13.6	5.9	6.2	25.26	1.00	0.00	2.47	61.5		S
10.750	35.269	8 6	6 7	4.1	11 01	2.29	0.00	2.89	44.3		S
10,850	35.597	7 4	6.6	4 2	24 24	2.00	0.00	2.77	78 1		S
10.950	35.925	11.3	5.9	3.4	6 45	5.74	0.00	1.24	17.7		S
11,050	36.253	14 1	25 6	12 8	45.61	1 26	0.00	3.16	75.0		S
11 150	36.581	16 7	14 2	11.7	40 28	1.40	0.00	2.23	10.2		S
11,250	36.909	15.3	13.9	16 2	64 35	1 02	0 00	1.85	14.8		S
11,350	37.237	15.6	14.6	11.6	45 31	0 96	0.30	2 06	5.3		S
11,450	37.565	20.2	18.3	24.4	104.66	0.62	0.00	1.64	3.9		S
11,550	37.893	20.2	20.3	21 2	84.20	0.04	0.00	2.11	16 0		S
11,650	38.221	17.5	19.1	16.3	56.24	1.33	0.00	2.34	45.3		S
11,750	38.549	34 0	22.9	10.3	32.60	1.73	0.00	2.41	69 7		S
11,850	38.877	7.1	6.3	6.0	19 16	2.11	0 01	2 91	52 1		S
11,950	39 206	9 9	6.1	3.4	10.69	2 36	0.02	2 72	43.7		S
12 050	39.534	10 7	9 5	5.6	20.22	2.70	0 00	2.69	37 9		S
12,150	39.862	15 5	13.0	7 3	27.94	1.12	0.00	2.51	66 5		S
12,250	40.190	16 8	11 6	5.6	20.44	4 22	-0.01	2.36	48.3		S
12,350	40.518	11 1	8 4	5 1	16.48	3.72	-0 01	3.06	57 9		S
12,450	40.846	5.5	5 0	3.2	9.03	3.55	-0.01	3 07	63 0		S
12,550	41.174	5 5	4 9	2.5	1.01	2.34	-0 01	2.75	65.4		S
12,650	41.502	6.1	5 C	3 2	30 82	3.38	0 00	2 41	20 5		S
12 750	41.830	11 4	11 1	8.4	25.75	1.70	-0.01	2 36	35 5		S
12,850	42.158	12 8	12.1	9 0	29.19	1.75	0.00	2.78	1 7		S
12,950	42.486	15.5	10.5	28.5	39.54	0.90	0.00	2.71	6 7		S
13 050	42.814	34 4	42.9	15.7	134.64	1.01	0.00	2 61	25.7		S
13,150	43.143	20 C	16.8	9.5	54.89	1.43	0.00	2.56	58.4		S
13,250	43.471	15.7	10.0	6 4	16 51	4.54	-0.01	2.52	99 5		S
13,350	43 799	7.5	4 9	4.7	6.61	6.91	-0.01	3 35	85 6		S
13,450	44.127	3 6	3 9	2.9	3.84	5 00	0.00	2 59	61 9		S
13 550	44.455	6 9	5.4	2.8	8.18	2.19	0.00	3.06	62 9		S
13,650	44 783	5 4	6.0	3.0	6.53	1.11	-0 01	3.24	76 4		S
13,750	45.111	7.2	5 8	2.8	4.92	4.76	0.00	3.01	69 5		S
13 850	45.439	20.9	13.0	6.1	19 62	0.94	0.01	2 09	16.5		S
13,950	45 767	51 0	46.9	21.5	122 72	2 56	0 20	2 74	42.4		S
14 050	46.095	49.5	19.5	10 7	46 70	5.53	0 00	2.62	24 2		S
14,150	46 423	17.8	16 5	8 9	12.76	1.90	0.00	2 19	18 4		S
14,250	46.751	20 8	16 0	8.4	33.47	3.89	0.00	3.45	48 5		S
14,350	47.079	22.7	16.0	7.4	24 07	5.04	-0.01	2.60	19 9		S
14,450	47 409	21.4	16.6	8.9	33.25	4 04	0.00	2.74	48.8		S
14 550	47.736	26 2	16.2	8.9	30.56	4.12	0.01	2.75	43.1		S
14,650	48 064	28.8	17.3	9.2	31.71	4.02	0 00	2 78	45.1		S
14,750	48.392	35 0	15 4	8 8	25.91	4 73	0.00	2 45	49 0		S
14,850	48.720	13.1	12.1	6 1	18.56	3.93	0.00	2.71	52 4		S
14,950	49.048	10.4	9.1	6.5	14.05	3.57	0.00	2 44	27 5		S
15 050	49.376	16 6	14 4	10.6	21.70	2.35	0.01	2.35	24 6		S
15 150	49.704	19 1	19 1	14 3	41 51	2.51					S

Run No: 01-0306-2229-2215
Cor File: 121CR13A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 N2(60) (b/ft2)	Col-22 S(60)1c (b/ft2)	Col-23 N1(60)1c (b/ft2)	Col-24 CC	Col-25 Fr (%)	Col-26 Rd	Col-27 Sc	Col-28 FC (%)	Col-29 Tolunt (Zone)
15.240	50.032	25.0	24.2	17.6	56.00	2.26	0.00	2.23	19.4	5
15.390	50.461	15.6	15.7	5.9	21.47	4.23	-0.01	2.62	47.8	4
15.460	50.688	24.9	24.3	7.2	26.57	2.06	0.00	2.65	35.7	4
15.550	51.015	17.0	16.9	10.0	10.11	2.77	-0.01	2.73	29.6	3
15.640	51.345	16.0	15.0	5.2	16.35	6.55	0.00	2.96	56.3	4
15.750	51.673	10.5	9.6	4.6	14.01	3.73	0.00	2.93	54.2	4
15.850	52.001	14.3	13.1	6.4	22.72	2.76	0.00	2.69	39.8	4
15.950	52.331	13.2	12.0	6.5	22.86	2.97	-0.01	2.71	66.8	4
16.050	52.657	15.4	14.1	11.6	32.46	2.28	-0.01	2.66	28.6	5
16.150	52.985	12.1	11.0	4.1	11.79	4.61	0.02	2.94	61.5	3
16.250	53.313	10.0	9.1	5.1	16.86	2.95	0.01	2.61	46.9	4
16.350	53.641	7.7	6.8	4.0	12.61	1.01	-0.04	2.92	59.3	4
16.450	53.969	5.5	5.0	2.6	6.18	2.50	-0.03	3.10	65.5	3
16.550	54.299	7.3	6.6	3.1	7.46	2.55	0.00	3.05	60.2	4
16.650	54.626	15.1	13.2	4.5	10.35	5.23	0.01	3.01	63.6	3
16.750	54.954	14.0	12.0	9.0	23.93	1.52	0.00	2.74	42.5	4
16.850	55.283	14.1	11.8	7.6	25.15	2.76	-0.03	2.69	58.0	4
16.950	55.610	24.1	20.8	7.5	33.32	4.35	-0.01	2.69	60.3	4
17.050	55.938	53.6	50.6	25.6	134.51	2.14	0.00	2.10	18.9	5
17.150	56.266	68.6	56.8	39.6	126.26	3.20	0.00	2.13	16.0	5
17.250	56.594	103.0	85.6	46.1	154.95	2.62	0.02	1.99	12.0	5
17.350	56.922	76.7	50.0	35.1	110.26	3.20	0.00	2.14	21.1	5
17.450	57.250	33.4	25.4	20.8	62.07	3.03	0.01	2.29	22.5	5
17.550	57.578	17.1	12.5	8.1	29.34	3.33	0.00	2.64	37.2	4
17.650	57.906	7.9	6.1	3.5	9.07	4.21	0.00	2.78	65.2	3
17.750	58.234	4.7	4.2	2.5	8.47	0.72	0.00	2.35	49.1	4
17.850	58.562	6.2	5.1	2.9	9.63	1.62	0.03	2.90	52.2	4
17.950	58.890	6.1	5.4	3.1	9.48	1.89	0.05	2.96	56.8	3
18.050	59.219	5.4	4.6	2.6	7.97	1.73	0.06	2.90	58.6	3
18.150	59.547	4.6	3.9	2.1	6.13	1.14	0.10	3.01	63.2	3
18.250	59.875	3.5	3.0	1.5	4.24	2.06	0.26	1.05	60.2	3
18.350	60.203	3.2	2.7	1.5	4.76	0.80	0.21	1.07	63.1	3
18.450	60.531	3.3	2.8	1.6	4.79	0.90	0.24	1.11	66.5	3
18.550	60.859	3.3	2.8	1.5	4.56	1.20	0.27	1.13	67.5	3
18.650	61.187	3.6	3.0	1.6	4.65	1.25	0.29	1.22	68.6	3
18.750	61.515	3.3	2.8	1.6	4.34	1.16	0.29	1.19	68.8	3
18.850	61.844	3.2	2.7	1.6	3.95	1.02	0.31	1.12	67.9	3
18.950	62.172	3.1	2.6	1.4	3.67	0.86	0.34	1.11	66.5	3
19.050	62.500	3.3	2.8	1.5	4.14	1.07	0.35	1.13	69.5	3
19.150	62.829	3.6	2.9	1.6	4.14	1.47	0.32	1.15	69.1	3
19.250	63.156	3.8	3.1	1.7	4.04	1.65	0.29	1.18	71.6	3
19.350	63.484	3.9	3.1	1.8	3.92	1.59	0.22	1.22	72.2	3
19.450	63.812	3.4	2.9	1.6	4.09	1.71	0.24	1.22	81.6	3
19.550	64.140	2.6	2.2	1.3	3.47	1.71	0.36	1.31	81.9	3
19.650	64.469	3.2	2.7	1.6	4.19	1.33	0.33	1.17	71.9	3
19.750	64.796	3.2	2.7	1.6	3.93	1.23	0.34	1.15	71.8	3
19.850	65.124	3.4	2.9	1.6	3.79	1.31	0.38	1.26	74.9	3
19.950	65.452	3.1	2.6	1.4	3.60	1.36	0.33	1.21	71.2	3
20.050	65.780	3.1	2.6	1.4	3.59	1.00	0.34	1.21	70.6	3
20.150	66.108	2.6	2.2	1.2	4.51	1.38	0.30	1.12	67.3	3
20.250	66.436	3.3	2.8	1.5	1.98	1.59	0.32	1.22	72.2	3
20.350	66.764	3.2	2.7	1.5	3.85	1.59	0.32	1.22	74.4	3
20.450	67.092	3.6	3.0	1.7	4.52	1.76	0.24	1.17	72.2	3
20.550	67.420	3.5	2.9	1.7	4.37	1.46	0.21	1.20	72.9	3
20.650	67.748	3.6	3.0	1.7	4.47	1.62	0.23	1.18	71.5	3
20.750	68.077	3.6	3.0	1.7	4.44	1.27	0.20	1.19	72.4	3
20.850	68.405	3.2	2.7	1.5	3.65	1.93	0.26	1.27	75.5	3
20.950	68.733	3.0	2.4	1.4	3.57	1.45	0.25	1.21	73.9	3
21.050	69.061	3.0	2.4	1.4	3.71	1.69	0.19	1.27	78.4	3
21.150	69.389	3.1	2.5	1.4	3.49	1.75	0.33	1.27	73.9	3

Run No: 05-0206-1259-3114
DFF File: 721C012A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 Si(IGS) (lb/ft³)	Col-22 Xi(GS)/Fe (lb/ft³)	Col-23 Si(IGS)/Ca (lb/ft³)	Col-24 Qc	Col-25 Fr (%)	Col-26 Bq	Col-27 Ic	Col-28 pC (%)	Col-29 Zone (Zone)
21.250	69.717	3.1	4.9	1.4	3.50	1.61	0.38	3.26	71.0	3
21.350	70.045	3.2	4.9	1.4	3.57	1.59	0.41	3.22	71.3	3
21.450	70.373	3.1	4.9	1.4	3.49	1.58	0.41	3.26	71.2	3
21.550	70.701	3.3	5.1	1.5	3.76	1.61	0.36	3.24	70.2	3
21.650	71.029	3.3	4.9	1.4	3.70	1.65	0.40	3.21	69.3	3
21.750	71.357	3.5	5.1	1.6	4.07	1.62	0.29	3.20	72.7	3
21.850	71.685	3.3	5.1	1.5	3.69	1.73	0.31	3.25	73.8	3
21.950	72.014	3.3	5.1	1.5	3.74	1.56	0.36	3.22	74.6	3
22.050	72.342	3.3	5.3	1.5	3.53	1.61	0.31	3.24	71.5	3
22.150	72.670	3.4	5.3	1.5	3.70	1.65	0.32	3.27	72.4	3
22.250	72.998	3.2	5.2	1.5	3.56	1.67	0.36	3.27	71.8	3
22.350	73.326	3.1	5.2	1.6	3.63	1.69	0.36	3.30	69.8	3
22.450	73.654	3.4	5.4	1.5	3.87	1.72	0.32	3.33	75.3	3
22.550	73.982	3.0	5.1	1.4	3.38	1.61	0.29	3.31	70.2	3
22.650	74.310	2.9	4.9	1.4	2.97	1.70	0.34	3.36	63.6	3
22.750	74.638	3.1	5.1	1.4	3.40	1.60	0.31	3.27	76.2	3
22.850	74.966	3.5	5.5	1.5	3.96	1.71	0.28	3.22	76.6	3
22.950	75.294	3.3	5.1	1.5	4.09	2.17	0.33	3.26	75.2	3
23.050	75.622	3.5	5.6	1.9	4.82	2.76	0.19	3.24	76.6	3
23.150	75.951	4.7	6.3	1.8	4.41	2.55	0.16	3.23	79.7	3
23.250	76.279	3.1	5.5	1.7	4.01	2.33	0.36	3.24	76.1	3
23.350	76.607	3.3	5.5	1.5	3.55	2.14	0.28	3.31	81.5	3
23.450	76.935	3.0	5.2	1.3	3.68	2.03	0.30	3.35	85.2	3
23.550	77.263	3.1	5.2	1.4	3.80	1.82	0.27	3.33	82.0	3
23.650	77.591	3.0	5.3	1.4	3.57	1.95	0.29	3.35	81.9	3
23.750	77.919	3.3	5.5	1.5	3.92	1.92	0.21	3.29	80.0	3
23.850	78.247	3.2	5.4	1.4	3.84	1.95	0.29	3.33	83.2	3
23.950	78.575	3.0	5.4	1.4	3.76	2.50	0.32	3.34	84.1	3
24.050	78.903	3.2	5.5	1.4	3.65	2.63	0.33	3.31	83.9	3
24.150	79.231	3.2	5.5	1.4	3.48	2.82	0.35	3.41	82.2	3
24.250	79.559	3.4	5.6	1.5	3.62	2.73	0.37	3.31	83.4	3
24.350	79.887	3.3	5.5	1.4	3.55	2.71	0.36	3.28	83.9	3
24.450	80.215	3.3	5.5	1.4	3.59	2.60	0.37	3.25	84.9	3
24.550	80.544	3.2	5.5	1.4	3.47	2.71	0.37	3.29	83.1	3
24.650	80.872	3.4	5.5	1.5	3.59	2.78	0.35	3.26	84.1	3
24.750	81.200	3.5	5.5	1.5	3.77	2.86	0.29	3.25	83.6	3
24.850	81.528	3.4	5.5	1.5	3.70	2.81	0.30	3.23	85.1	3
24.950	81.856	3.5	5.5	1.6	3.92	2.84	0.27	3.24	85.9	3
25.050	82.184	3.5	5.5	1.6	3.94	2.84	0.27	3.25	83.6	3
25.150	82.513	3.7	6.2	1.7	4.29	2.24	0.26	3.25	81.8	3
25.250	82.841	3.5	6.5	1.7	4.18	2.49	0.24	3.26	79.1	3
25.350	83.169	4.3	6.7	1.8	4.83	2.27	0.25	3.22	74.4	3
25.450	83.496	3.6	6.5	1.7	4.35	2.44	0.28	3.27	76.5	3
25.550	83.824	4.0	6.6	1.5	4.52	2.04	0.25	3.20	75.2	3
25.650	84.153	3.9	6.6	1.7	4.36	2.11	0.23	3.22	76.9	3
25.750	84.481	3.8	6.3	1.7	4.34	2.03	0.22	3.23	75.7	3
25.850	84.809	4.1	6.7	1.8	4.59	2.01	0.25	3.21	73.4	3
25.950	85.137	3.6	6.1	1.6	3.92	2.25	0.20	3.26	73.3	3
26.050	85.465	3.6	6.0	1.5	3.81	1.94	0.22	3.28	75.3	3
26.150	85.791	3.4	6.0	1.5	3.63	1.97	0.24	3.29	81.6	3
26.250	86.121	3.8	6.3	1.6	4.11	1.85	0.23	3.26	76.7	3
26.350	86.449	4.3	6.8	1.8	4.31	1.75	0.20	3.24	68.6	3
26.450	86.777	4.6	7.2	2.0	5.25	1.96	0.22	3.24	68.1	3
26.550	87.105	4.6	7.4	2.0	5.35	2.25	0.21	3.19	70.0	3
26.650	87.433	3.6	6.5	1.6	4.60	2.27	0.26	3.27	78.8	3
26.750	87.761	3.8	6.4	1.6	4.93	1.97	0.30	3.23	75.3	3
26.850	88.089	4.3	7.0	1.8	4.77	1.77	0.26	3.18	71.1	3
26.950	88.417	4.1	7.8	2.2	5.56	1.91	0.24	3.08	63.9	3
27.050	88.745	4.7	7.4	2.0	5.13	2.10	0.24	3.14	68.9	3
27.150	89.074	5.2	8.1	2.2	6.19	2.22	0.27	3.11	66.1	3

Run No: 06-0018-1250-0115
EDT File: 121CP12A.EDN

Col-01 Depth (m)	Col-02 Depth (ft)	Col-21 SI(AS) (kPa)	Col-22 SI(BS)CC (lb/ft)	Col-23 SI(BS)CC (lb/ft)	Col-24 QL	Col-25 Fr (%)	Col-26 SB	Col-27 IF	Col-28 FC (%)	Col-29 SBZone (zone)
29.260	89.632	5.1	6.2	2.1	6.12	2.72	0.27	1.09	65.1	3
29.350	89.756	5.8	7.7	2.8	3.43	2.24	0.22	1.15	63.2	3
29.450	90.056	6.6	9.6	2.8	8.59	2.08	0.27	1.05	57.3	3
29.560	90.366	4.6	7.6	2.0	6.50	1.21	0.06	2.96	59.7	4
29.650	90.734	6.6	9.4	2.7	8.20	1.70	0.09	2.94	64.4	4
29.750	91.042	12.6	22.6	14.1	14.12	0.72	0.01	1.58	32.4	6
29.850	91.375	17.3	31.0	18.2	53.93	0.80	0.01	1.86	9.9	6
29.940	91.646	19.2	31.2	19.5	55.61	0.86	0.00	1.88	9.8	6
30.050	92.026	20.1	35.2	20.5	58.62	0.95	0.02	1.89	10.1	6
30.150	92.356	21.7	31.8	18.6	50.04	1.26	0.00	2.02	13.5	6
30.250	92.683	17.2	30.6	17.6	49.60	0.93	0.00	1.93	11.2	6
30.350	93.013	16.4	29.6	17.1	47.16	0.92	0.00	1.89	11.7	6
30.450	93.339	24.5	23.3	17.1	41.96	3.09	-0.01	2.22	19.6	5
30.550	93.667	23.3	23.3	14.6	37.92	2.96	-0.01	2.39	20.2	5
30.650	93.995	41.5	22.9	7.1	22.64	5.29	-0.02	2.37	50.1	4
30.750	94.323	40.9	22.8	7.1	22.41	5.46	-0.01	2.89	51.1	4
30.840	94.651	47.0	25.1	7.8	25.93	4.83	-0.01	2.61	46.3	4
30.940	94.979	21.3	26.6	5.0	32.62	3.56	-0.01	2.65	11.8	4
31.040	95.307	21.5	25.6	8.1	29.71	3.06	-0.01	4.67	18.8	4
31.150	95.635	19.9	20.0	11.5	30.19	0.59	-0.03	1.99	17.7	6
31.250	95.919	18.4	20.6	6.2	19.87	4.61	0.51	3.66	49.1	4
31.350	96.291	43.8	24.4	7.4	22.34	7.41	0.59	2.99	57.8	3
31.450	96.619	25.7	21.4	6.5	17.96	8.39	-0.01	3.04	64.3	3
31.550	96.948	36.3	21.4	6.4	18.27	7.72	-0.01	3.05	62.0	3
31.650	97.276	32.4	20.1	8.1	17.37	7.47	0.03	3.06	61.8	3
31.750	97.604	31.6	19.9	5.8	16.62	7.38	-0.01	3.06	62.1	3
31.840	97.932	31.3	20.1	6.1	17.07	7.02	-0.01	3.04	61.8	3
31.940	98.260	40.5	23.1	6.3	21.71	5.42	0.02	3.29	54.4	4
32.050	98.589	41.8	24.3	7.4	22.41	7.04	0.04	2.96	55.9	3
32.150	98.911	46.1	28.4	8.5	26.27	7.41	-0.02	2.91	53.7	4
32.250	99.244	49.6	29.1	8.7	26.84	7.61	0.01	2.95	54.8	4
32.350	99.573	42.1	25.8	7.6	23.48	7.24	-0.04	3.32	54.3	3
32.450	99.901	41.0	24.6	7.3	21.71	6.94	-0.06	2.96	55.9	4
32.550	100.229	23.6	25.4	7.5	25.04	4.43	0.02	2.79	43.3	4
32.661	100.569	37.7	31.8	17.9	49.06	0.71	-0.02	1.85	9.2	6

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RoboTer Inc  - CPT Interpretation
Interpretation Output - Release 1.32 Rev. A - Suite 9  Format  (ft) Imperial
Run No:   05-0709-1259-0135
Job No    05-721
Client:   GeoSyntec Consultants
Project   Pigeon Point Landfill - Wilmington, Delaware
Site:     CPT 05-0012
Location  Pigeon Point
Cone      20 TSF  ASTM
CPT Date: 07/07/05
CPT Time  13 41
CPT File: 721CPT12A.DAT
Boundary  (m)          0.000000
Casing    (m)          0.000000
Elevation (m)          0.000000
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 Water Table (m)                5 ft        (ft):   16.1
 Unit Weight of Water (default)      62.40 pcf
 Averaging Increment (m)        0.10
 Sa (Kc Used):      15.10      Sa/P  (Kc)     0.30
 Ic  Method :                 Jamiolkowski - All Sands
 Grain Parameter N:            1.00
 Used Unit Weights Assigned to Soil Zones
 Fines Calculated using Robertson
 Stress Calculated Using Grains
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Col-01 Depth (m)	Col-02 Depth (ft)	Col-30 Qz (%)	Col-31 Phi (Deg)	Col-32 State Par	Col-33 Kc/qc	Col-34 Young (psf)	Col-35 Su (LSF)	Col-36 OCR
0.050	0.164	95.0	50.0	9999.0	-1599.0	-9999.0	-9999.0	9999.0
0.100	0.492	95.0	50.0	9999.0	-1999.0	-9999.0	-9999.0	9999.0
0.150	0.820	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
0.200	1.148	95.0	50.0	-9999.0	-1999.0	9999.0	-9999.0	-9999.0
0.250	1.476	95.0	50.0	9999.0	-9999.0	9999.0	-9999.0	-9999.0
0.300	1.804	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
0.350	2.134	95.0	50.0	-0.63	-1991.0	-9999.0	-9999.0	9297.0
0.400	2.461	92.4	50.0	-0.55	-9999.0	5993.0	6.295	10.0
0.450	2.789	85.4	48.0	-0.49	1.900	146.2	5.119	10.0
0.500	3.117	79.0	48.0	-0.45	1.911	129.9	4.451	10.0
1.050	3.445	72.3	46.0	-0.41	2.038	111.4	3.696	10.0
1.100	3.773	70.7	45.0	-0.37	2.072	111.9	3.643	10.0
1.150	4.101	76.2	46.0	-0.40	1.923	142.7	-9991.0	-9999.0
1.200	4.429	84.6	48.0	-0.44	1.710	165.7	-9999.0	-9999.0
1.250	4.757	91.8	48.0	-0.46	1.646	152.1	5.231	10.0
1.300	5.085	75.1	46.0	-0.52	1.977	147.4	4.852	10.0
1.350	5.413	75.2	44.0	-0.61	2.039	144.1	4.774	10.0
1.400	5.741	82.7	44.0	-0.56	1.871	171.6	-9999.0	-9999.0
1.450	6.069	92.2	47.0	-0.42	-9999.0	-9999.0	-9999.0	-9999.0
1.500	6.396	91.0	48.0	-0.46	-9999.0	-9999.0	-9999.0	-9999.0
1.550	6.726	85.1	46.0	-0.47	1.920	231.0	9.996	10.0
1.600	7.054	71.8	44.0	-0.52	2.005	168.8	-9999.0	-9999.0
1.650	7.382	66.2	42.0	-0.54	2.020	115.3	-9999.0	-9999.0
1.700	7.710	68.5	42.0	-0.50	1.899	90.8	1.808	10.0
1.750	8.038	74.3	43.0	-0.46	1.793	86.9	1.562	10.0
1.800	8.366	82.3	45.0	-0.39	1.672	116.5	3996.0	-9999.0
1.850	8.694	81.7	44.0	-0.38	1.680	228.1	-9999.0	-9999.0
1.900	9.022	82.4	44.0	-0.42	1.876	217.5	-9999.0	9999.0
1.950	9.350	76.5	44.0	-0.52	1.971	200.4	-9999.0	-9999.0
2.000	9.678	90.6	42.0	-0.71	2.286	160.9	1.695	10.0
2.050	10.006	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	2.129	10.0
2.100	10.335	87.7	42.0	-0.80	2.496	140.4	-9999.0	-9999.0

Job No: 05 0308-1259-0145
CPT File: 711CP12A.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-10 Qc (t)	Col-11 Phi (deg)	Col-12 Strata Por	Col-13 Bq/qt	Col-14 Young's (ksf)	Col-15 Nc (ref)	Col-16 OCR
0.250	10.163	52.9	42.0	-0.28	3.670	110.7	0.021	10.0
0.350	10.791	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.024	10.0
0.450	11.319	79.1	44.0	-0.35	1.909	240.4	-9999.0	-9999.0
0.550	11.647	80.9	46.0	-0.31	1.887	255.7	-9999.0	-9999.0
0.651	11.975	69.0	46.0	-0.25	3.170	111.0	0.020	10.0
0.750	12.304	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.385	10.0
0.850	12.671	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.648	10.0
0.951	12.959	-9999.0	-9999.0	-9999.0	-9999.0	5977.0	2.969	10.0
1.050	13.287	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.444	10.0
1.150	13.615	54.5	40.0	-0.21	2.596	152.0	-9999.0	-9999.0
1.250	13.943	67.5	40.0	-0.28	2.941	235.5	0.031	10.0
1.350	14.271	9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.796	10.0
1.450	14.600	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.137	7.5
1.550	14.928	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.006	6.0
1.650	15.256	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.760	7.6
1.750	15.584	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.459	9.5
1.850	15.912	41.2	38.0	-0.38	3.334	131.4	0.025	10.0
1.950	16.240	38.2	38.0	-0.25	3.476	126.0	0.048	10.0
2.050	16.568	50.0	40.0	-0.35	2.547	255.8	9999.0	-9999.0
2.150	16.896	50.0	40.0	-0.31	-9999.0	-9999.0	1.362	7.3
2.250	17.224	38.0	36.0	-0.33	-9999.0	-9999.0	1.665	9.0
2.350	17.552	51.2	40.0	-0.33	2.801	165.4	-9999.0	9991.0
2.450	17.880	41.0	36.0	-0.35	3.358	139.9	-9999.0	-9999.0
2.550	18.208	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.168	9.3
2.650	18.537	50.0	32.0	-0.03	-9999.0	-9999.0	0.265	5.8
2.750	18.865	34.6	36.0	-0.16	5.733	123.0	0.270	10.0
2.849	19.193	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.937	3.6
2.950	19.521	41.9	38.0	-0.17	3.047	162.2	-9999.0	-9999.0
3.050	19.849	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.908	10.0
3.150	20.177	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	0.201	10.0
3.250	20.505	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.572	10.0
3.350	20.833	45.7	38.0	-0.20	3.322	161.6	0.255	10.0
3.450	21.161	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.112	4.2
3.550	21.489	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.323	3.3
3.650	21.817	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.817	8.6
3.750	22.145	49.2	38.0	-0.23	3.046	168.8	0.503	10.0
3.850	22.473	41.8	38.0	-0.25	3.038	171.1	0.654	10.0
3.950	22.802	61.9	40.0	-0.22	2.381	222.6	9999.0	-9999.0
4.050	23.130	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.039	10.0
4.150	23.458	44.6	38.0	-0.21	3.204	161.7	0.015	10.0
4.250	23.786	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.827	10.0
4.350	24.114	51.8	40.0	-0.42	2.724	194.1	9999.0	-9999.0
4.450	24.442	55.0	40.0	-0.23	2.361	231.2	-9999.0	-9999.0
4.550	24.770	61.6	38.0	-0.17	1.815	158.6	0.034	10.0
4.650	25.098	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	0.231	10.0
4.750	25.426	47.2	38.0	-0.22	3.049	176.3	0.025	10.0
4.850	25.754	42.5	38.0	-0.17	3.329	162.9	0.163	10.0
4.950	26.082	37.4	36.0	-0.06	3.582	144.9	-9999.0	-9999.0
5.050	26.410	38.0	36.0	-0.12	3.595	152.0	-9999.0	-9999.0
5.150	26.738	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
5.250	27.067	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.529	5.5
5.350	27.395	35.0	34.0	-0.11	3.678	138.3	0.272	10.0
5.450	27.723	30.0	32.0	-0.06	-9999.0	-9999.0	1.512	4.6
5.550	28.051	32.0	32.0	0.06	-9999.0	-9999.0	1.342	4.6
5.650	28.379	30.0	32.0	-0.09	-9999.0	-9999.0	1.552	8.0
5.750	28.707	84.2	44.0	-0.14	1.737	402.9	-9999.0	-9999.0
5.850	29.035	91.6	46.0	-0.13	-9999.0	-9999.0	-9999.0	-9999.0
5.950	29.363	78.5	44.0	-0.13	1.977	364.5	-9999.0	-9999.0
6.050	29.691	53.6	38.0	-0.25	2.744	207.0	4.815	10.0
6.150	30.019	43.3	36.0	-0.19	3.427	161.4	3.161	10.0

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WD File: 7010128A.COR

Col 01 Depth (m)	Col-02 Depth (ft)	Col-10 Qc (Bar)	Col 31 Fric (kPa)	Col-32 Score Par	Col-37 Es/Qc	Col.34 Young'S (tsf)	Col.35 Su (tsf)	Col-36 OCR
9.250	30.349	42.9	38.0	0.89	3.374	171.0	1.262	10.0
9.300	30.579	35.9	36.0	0.14	3.762	153.2	2.551	10.7
9.450	31.004	47.9	38.0	-0.10	3.035	190.0	-9999.0	-9999.0
9.510	31.232	56.5	40.0	-0.22	2.733	214.9	-9999.0	-9999.0
9.550	31.660	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.319	6.0
9.750	32.026	46.0	34.0	-0.06	9999.0	-9999.0	-9999.0	-9999.0
9.850	32.316	50.0	34.0	-0.11	-9999.0	-9999.0	1.932	7.1
9.950	32.644	56.1	40.0	-0.16	2.584	212.4	-9999.0	-9999.0
10.050	32.972	32.9	34.0	-0.16	-9999.0	-9999.0	2.201	9.8
10.150	33.300	36.1	36.0	-0.16	-9999.0	-9999.0	2.683	10.0
10.250	33.628	45.7	38.0	-0.12	3.203	188.3	3.790	10.0
10.350	33.956	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.711	5.8
10.450	34.284	44.2	38.0	0.14	3.269	124.5	-9999.0	-9999.0
10.550	34.612	53.9	38.0	0.15	1.328	186.6	-9999.0	-9999.0
10.650	34.941	34.0	36.0	0.11	5.359	156.2	2.530	10.0
10.750	35.269	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.342	3.7
11.000	35.957	32.0	32.0	-0.05	-9999.0	-9999.0	1.471	6.2
11.050	35.925	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	0.682	2.0
11.150	36.253	51.6	38.0	-0.13	2.929	214.2	-9999.0	-9999.0
11.250	36.581	68.1	42.0	-0.13	3.069	282.6	-9999.0	-9999.0
11.350	36.909	61.2	40.0	-0.11	2.699	256.9	-9999.0	-9999.0
11.450	37.237	54.0	38.0	0.12	2.983	227.1	-9999.0	-9999.0
11.550	37.565	73.1	42.0	2.35	3.109	158.8	-9999.0	-9999.0
11.650	37.893	65.1	42.0	-0.11	2.359	313.2	-9999.0	-9999.0
11.850	38.221	57.1	40.0	-0.16	2.649	243.6	-9999.0	-9999.0
11.750	38.549	42.9	36.0	-0.17	3.190	189.6	-9999.0	-9999.0
11.950	38.877	39.0	32.0	0.05	-9999.0	-9999.0	1.442	3.7
11.950	39.205	30.0	30.0	0.09	-9999.0	-9999.0	2.170	8.6
12.050	39.534	34.0	34.0	-0.12	-9999.0	-9999.0	2.207	7.2
12.150	39.862	34.3	36.0	-0.18	-9999.0	-9999.0	3.109	10.0
12.250	40.190	-9999.0	-9999.0	9999.0	-9999.0	9999.0	2.811	8.5
12.350	40.518	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.651	5.1
12.450	40.846	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.008	2.2
12.550	41.174	9999.0	-9999.0	9999.0	-9999.0	9999.0	0.805	1.6
12.650	41.502	30.0	30.0	0.00	-9999.0	9999.0	1.214	2.2
12.750	41.830	37.0	34.0	-0.10	3.796	176.1	-9999.0	-9999.0
12.850	42.158	48.6	36.0	-0.12	3.351	184.0	-9999.0	-9999.0
12.950	42.486	73.2	42.0	-0.16	2.172	340.1	-9999.0	-9999.0
13.050	42.814	33.5	44.0	-0.22	1.915	401.3	-9999.0	-9999.0
13.150	43.143	45.7	38.0	0.21	3.164	241.1	6.084	10.0
13.250	43.471	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.949	5.3
13.350	43.799	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.822	1.0
13.450	44.127	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.454	0.0
13.550	44.455	30.0	30.0	0.00	-9999.0	-9999.0	0.976	1.9
13.650	44.783	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.322	2.0
13.750	45.111	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.833	1.0
13.850	45.439	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.352	6.7
13.950	45.767	81.6	42.0	-0.15	1.998	452.5	-9999.0	-9999.0
14.050	46.095	47.8	38.0	0.42	1.497	259.0	-9999.0	-9999.0
14.150	46.423	44.7	36.0	-0.21	3.690	245.8	4.032	10.0
14.250	46.751	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.067	10.0
14.350	47.079	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	2.969	9.5
14.450	47.408	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	3.959	10.0
14.550	47.736	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.921	10.0
14.650	48.064	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.963	10.0
14.750	48.392	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.401	10.0
14.850	48.720	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.158	9.9
14.950	49.048	-9999.0	-9999.0	-9999.0	9999.0	-9999.0	1.795	4.1
15.050	49.376	42.6	36.0	-0.15	3.478	208.6	1.621	10.0
15.150	49.704	51.9	38.0	-0.20	2.966	266.4	-9999.0	-9999.0

Run No: C:\CPT\2015-1259-0115
CPT File: T:\CPT\2015-1259-0115.COR

Col-01 Depth (m)	Col-02 Depth (ft)	Col-19 Qt (%)	Col-21 Fric (deg)	Col-22 State Par	Col-33 Es/qt	Col-34 Youngs (psi)	Col-35 Su (psf)	Col-36 OCR
15.250	50.032	50.3	40.0	-0.21	2.696	259.4	-9999.0	9999.0
15.297	50.186	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	3.862	0.2
15.350	50.361	49.7	36.0	-0.15	-9999.0	-9999.0	3.463	10.0
15.400	50.525	49.6	36.0	-0.15	3.465	214.6	3.265	10.0
15.447	50.679	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.165	6.2
15.497	50.843	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.965	4.1
15.547	51.007	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	3.018	6.1
15.597	51.171	49.5	34.0	-0.14	-9999.0	-9999.0	3.047	9.2
15.647	51.335	46.1	34.0	0.15	-9999.0	-9999.0	-9999.0	-9999.0
15.697	51.499	46.7	36.0	-0.16	2.920	225.8	-9999.0	1.2
15.747	51.663	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.565	1.2
15.797	51.827	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	2.279	4.4
15.847	51.991	38.0	32.0	-0.11	-9999.0	-9999.0	1.656	1.5
15.897	52.155	36.0	30.0	-0.16	-9999.0	-9999.0	0.930	1.5
15.947	52.319	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	1.251	2.2
15.997	52.483	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	1.052	3.6
16.047	52.647	-9999.0	9999.0	-9999.0	-9999.0	-9999.0	3.307	9.4
16.097	52.811	37.9	34.0	-0.18	-9999.0	-9999.0	3.486	10.0
16.147	52.975	35.0	34.0	-0.16	-9999.0	-9999.0	4.136	10.0
16.197	53.139	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	-9999.0
16.247	53.303	41.5	42.0	-0.15	2.026	402.6	9999.0	-9999.0
16.297	53.467	44.4	44.0	-0.18	2.015	562.1	-9999.0	-9999.0
16.350	53.641	46.2	44.0	-0.16	-9999.0	-9999.0	-9999.0	-9999.0
16.400	53.805	20.5	42.0	-0.16	2.056	465.5	9999.0	-9999.0
16.450	53.969	42.7	40.0	-0.17	2.566	321.6	3.259	10.0
16.500	54.133	43.9	38.0	-0.15	-9999.0	-9999.0	4.191	10.0
16.550	54.297	-9999.0	-9999.0	9999.0	-9999.0	-9999.0	1.979	2.9
16.600	54.461	36.0	36.0	0.16	-9999.0	-9999.0	9999.0	-9999.0
16.650	54.625	36.0	36.0	0.01	-9999.0	-9999.0	3.183	2.3
16.700	54.789	36.0	36.0	0.03	-9999.0	-9999.0	1.737	1.7
16.750	54.953	36.0	36.0	0.02	-9999.0	-9999.0	1.152	1.9
16.800	55.117	36.0	36.0	0.07	-9999.0	-9999.0	0.896	1.4
16.850	55.281	36.0	36.0	0.16	-9999.0	-9999.0	0.622	0.9
16.900	55.445	36.0	36.0	0.15	-9999.0	-9999.0	0.628	1.0
16.950	55.609	36.0	36.0	0.16	-9999.0	-9999.0	0.629	1.0
17.000	55.773	36.0	36.0	0.14	-9999.0	-9999.0	0.611	0.9
17.050	55.937	36.0	36.0	0.13	-9999.0	-9999.0	0.646	1.0
17.100	56.101	36.0	36.0	0.15	-9999.0	-9999.0	0.615	0.9
17.150	56.265	36.0	36.0	0.16	-9999.0	-9999.0	0.595	0.9
17.200	56.429	36.0	36.0	0.17	-9999.0	-9999.0	0.568	0.9
17.250	56.593	36.0	36.0	0.15	-9999.0	-9999.0	0.626	0.9
17.300	56.757	36.0	36.0	0.15	-9999.0	-9999.0	0.659	1.0
17.350	56.921	36.0	36.0	0.11	-9999.0	-9999.0	0.710	1.0
17.400	57.085	36.0	36.0	0.09	-9999.0	-9999.0	0.722	1.0
17.450	57.249	36.0	36.0	0.11	-9999.0	-9999.0	0.664	0.9
17.500	57.413	36.0	36.0	0.16	-9999.0	-9999.0	0.468	0.8
17.550	57.577	36.0	36.0	0.15	-9999.0	9999.0	0.587	0.8
17.600	57.741	36.0	36.0	0.16	-9999.0	-9999.0	0.615	0.8
17.650	57.905	36.0	36.0	0.17	-9999.0	-9999.0	0.613	0.8
17.700	58.069	36.0	36.0	0.16	-9999.0	-9999.0	0.575	0.8
17.750	58.233	36.0	36.0	0.16	-9999.0	-9999.0	0.564	0.8
17.800	58.397	36.0	36.0	0.12	-9999.0	-9999.0	0.761	1.0
17.850	58.561	36.0	36.0	0.17	9999.0	-9999.0	0.530	0.9
17.900	58.725	36.0	36.0	0.14	-9999.0	9999.0	0.503	0.8
17.950	58.889	36.0	36.0	0.10	-9999.0	9999.0	0.720	1.0
18.000	59.053	36.0	36.0	0.11	-9999.0	-9999.0	0.692	1.0
18.050	59.217	36.0	36.0	0.10	-9999.0	-9999.0	0.717	1.0
18.100	59.381	36.0	36.0	0.10	9999.0	-9999.0	0.717	1.0
18.150	59.545	36.0	36.0	0.12	-9999.0	-9999.0	0.559	0.8
18.200	59.709	36.0	36.0	0.15	-9999.0	-9999.0	0.547	0.8
18.250	59.873	36.0	36.0	0.16	-9999.0	-9999.0	0.568	0.8
18.300	60.037	36.0	36.0	0.15	-9999.0	-9999.0	0.565	0.8

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LOT File: 721CP12A.COR

Col-01 Depth (m)	Col 02 Depth (ft)	Col-30 Dz (ft)	Col-31 Phi (deg)	Col-32 Grain Pac	Col 33 Ea/qc	Col-34 YoungE (tsf)	Col-35 Gs (tsf)	Col-36 OCR
21.250	69.717	30.0	30.0	0.10	-9999.0	-9999.0	0.574	0.8
21.350	70.045	30.0	30.0	0.15	-9999.0	-9999.0	0.605	0.8
21.450	70.374	30.0	30.0	0.15	-9999.0	-9999.0	0.576	0.8
21.550	70.702	30.0	30.0	0.14	9999.0	-9999.0	0.632	0.9
21.650	71.029	30.0	30.0	0.16	9999.0	9999.0	0.517	0.8
21.750	71.357	30.0	30.0	0.14	-9999.0	9999.0	0.682	0.9
21.850	71.685	30.0	30.0	0.14	-9999.0	-9999.0	0.608	0.8
21.950	72.014	30.0	30.0	0.15	-9999.0	-9999.0	0.628	0.9
22.050	72.342	30.0	30.0	0.13	-9999.0	-9999.0	0.545	0.7
22.150	72.670	30.0	30.0	0.13	-9999.0	9999.0	0.525	0.8
22.250	72.998	30.0	30.0	0.15	-9999.0	-9999.0	0.604	0.8
22.350	73.326	30.0	30.0	0.16	-9999.0	-9999.0	0.581	0.8
22.450	73.654	30.0	30.0	0.13	-9999.0	9999.0	0.562	0.7
22.550	73.982	30.0	30.0	0.14	-9999.0	9999.0	0.561	0.7
22.650	74.310	30.0	30.0	0.11	-9999.0	-9999.0	0.519	0.7
22.750	74.638	30.0	30.0	0.15	-9999.0	-9999.0	0.585	0.8
22.850	74.966	30.0	30.0	0.12	-9999.0	-9999.0	0.685	0.9
22.950	75.294	30.0	30.0	0.09	-9999.0	9999.0	0.814	1.0
23.050	75.622	-9999.0	-9999.0	-9999.0	-9999.0	9999.0	0.840	1.1
23.150	75.951	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.774	1.0
23.250	76.279	30.0	30.0	0.11	-9999.0	9999.0	0.758	0.9
23.350	76.607	30.0	30.0	0.13	-9999.0	-9999.0	0.624	0.8
23.450	76.935	30.0	30.0	0.15	-9999.0	-9999.0	0.584	0.7
23.550	77.263	30.0	30.0	0.14	-9999.0	9999.0	0.569	0.9
23.650	77.591	30.0	30.0	0.15	-9999.0	-9999.0	0.553	0.9
23.750	77.919	30.0	30.0	0.13	-9999.0	-9999.0	0.627	0.9
23.850	78.247	30.0	30.0	0.14	-9999.0	-9999.0	0.598	0.9
23.950	78.575	30.0	30.0	0.15	-9999.0	-9999.0	0.587	0.9
24.050	78.903	30.0	30.0	0.14	-9999.0	-9999.0	0.621	0.9
24.150	79.231	30.0	30.0	0.19	-9999.0	-9999.0	0.612	1.6
24.250	79.559	30.0	30.0	0.19	-9999.0	-9999.0	0.655	1.6
24.350	79.887	30.0	30.0	0.15	-9999.0	-9999.0	0.645	1.2
24.450	80.216	30.0	30.0	0.15	-9999.0	-9999.0	0.645	1.2
24.550	80.544	30.0	30.0	0.14	-9999.0	-9999.0	0.625	1.1
24.650	80.872	30.0	30.0	0.14	-9999.0	-9999.0	0.665	0.9
24.750	81.200	30.0	30.0	0.13	-9999.0	-9999.0	0.683	0.8
24.850	81.528	30.0	30.0	0.13	-9999.0	-9999.0	0.726	0.9
24.950	81.856	30.0	30.0	0.12	-9999.0	-9999.0	0.721	0.9
25.050	82.184	30.0	30.0	0.12	-9999.0	-9999.0	0.721	0.9
25.150	82.512	30.0	30.0	0.11	-9999.0	-9999.0	0.762	0.9
25.250	82.840	30.0	30.0	0.11	-9999.0	-9999.0	0.805	0.9
25.350	83.168	30.0	30.0	0.09	-9999.0	-9999.0	0.867	1.0
25.450	83.496	30.0	30.0	0.11	-9999.0	-9999.0	0.780	0.9
25.550	83.824	30.0	30.0	0.10	9999.0	9999.0	0.857	1.0
25.650	84.153	30.0	30.0	0.10	9999.0	9999.0	0.825	1.0
25.750	84.481	30.0	30.0	0.11	-9999.0	-9999.0	0.785	0.9
25.850	84.809	30.0	30.0	0.10	-9999.0	-9999.0	0.872	1.0
25.950	85.137	30.0	30.0	0.11	-9999.0	-9999.0	0.763	0.9
26.050	85.465	30.0	30.0	0.12	-9999.0	-9999.0	0.690	0.8
26.150	85.793	30.0	30.0	0.13	-9999.0	-9999.0	0.677	0.8
26.250	86.121	30.0	30.0	0.14	-9999.0	-9999.0	0.790	0.9
26.350	86.449	30.0	30.0	0.10	-9999.0	-9999.0	0.969	1.1
26.450	86.777	30.0	30.0	0.08	-9999.0	-9999.0	1.022	1.2
26.550	87.105	30.0	30.0	0.07	-9999.0	-9999.0	1.039	1.2
26.650	87.433	30.0	30.0	0.11	-9999.0	-9999.0	0.773	0.9
26.750	87.761	30.0	30.0	0.12	9999.0	-9999.0	0.787	0.9
26.850	88.089	30.0	30.0	0.10	-9999.0	9999.0	0.906	1.1
26.950	88.418	30.0	30.0	0.07	-9999.0	-9999.0	1.181	1.4
27.050	88.746	30.0	30.0	0.03	-9999.0	-9999.0	1.050	1.2
27.150	89.074	30.0	30.0	0.07	-9999.0	-9999.0	1.205	1.4

Run No: 05-0308-1259-0115
CPT File 721CP12A.COR

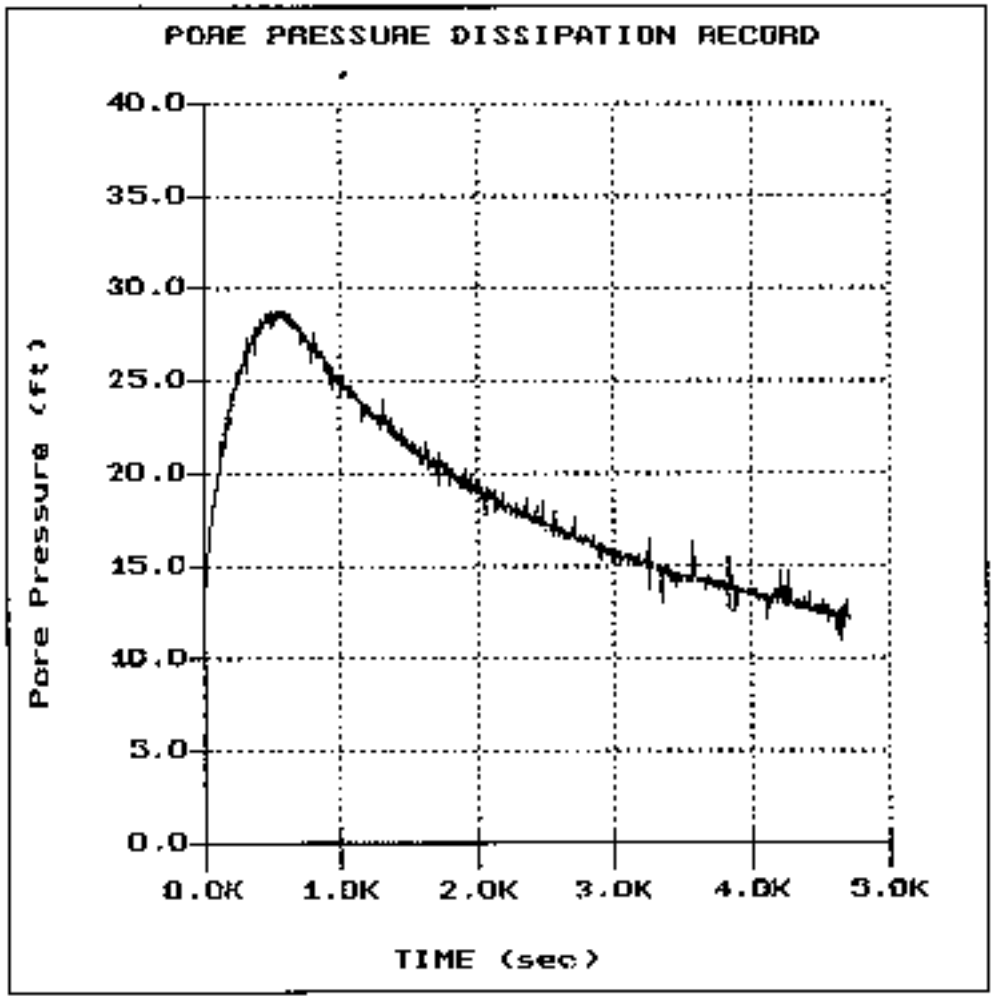
Col-01 Depth (m)	Col 02 Depth (ft)	Col 30 Dr (%)	Col 31 Phi (deg)	Col 32 State Pac	Col-33 Es/qc	Col-34 YoungE (tsf)	Col-35 Su (tsf)	Col-36 OCR
27.250	89.403	10.0	10.0	0.07	-9999.0	-9999.0	1.251	1.4
27.350	89.710	10.0	10.0	0.07	-9999.0	-9999.0	1.093	1.2
27.450	90.058	10.0	10.0	0.01	-9999.0	-9999.0	1.642	2.0
27.550	90.395	30.0	30.0	0.07	-9999.0	-9999.0	-9999.0	-9999.0
27.650	90.714	30.0	30.0	0.02	9999.0	9999.0	1.055	2.0
27.750	91.042	54.5	38.0	-0.05	3.064	349.9	-9999.0	-9999.0
27.850	91.370	64.7	38.0	-0.11	2.652	430.8	-9999.0	-9999.0
27.950	91.698	66.7	40.0	-0.12	2.588	452.3	9999.0	9999.0
28.050	92.026	68.0	40.0	-0.13	2.651	466.7	9999.0	9999.0
28.150	92.355	63.8	38.0	-0.14	2.688	425.5	-9999.0	-9999.0
28.250	92.683	63.5	38.0	-0.13	2.701	423.8	-9999.0	9999.0
28.350	93.011	62.3	38.0	-0.15	2.749	417.4	9999.0	9999.0
28.450	93.339	59.3	38.0	-0.18	2.875	387.8	-9999.0	-9999.0
28.550	93.667	52.4	36.0	-0.19	3.196	341.9	4.371	10.0
28.650	93.995	42.7	34.0	-0.29	-9999.0	-9999.0	-9999.0	-9999.0
28.750	94.323	42.0	34.0	-0.31	-9999.0	-9999.0	-9999.0	-9999.0
28.850	94.651	46.0	36.0	-0.28	-9999.0	-9999.0	-9999.0	-9999.0
28.950	94.979	52.4	36.0	-0.23	4.243	457.5	4.030	10.0
29.050	95.307	50.0	36.0	-0.21	-9999.0	-9999.0	4.234	10.0
29.150	95.635	50.4	36.0	-0.01	3.317	334.3	-9999.0	-9999.0
29.250	95.963	9999.0	-9999.0	-9999.0	-9999.0	-9999.0	4.191	7.0
29.350	96.291	42.2	34.0	-0.88	-9999.0	-9999.0	-9999.0	-9999.0
29.450	96.620	36.7	32.0	-1.30	-9999.0	-9999.0	-9999.0	-9999.0
29.550	96.948	37.2	32.0	-0.80	-9999.0	-9999.0	-9999.0	-9999.0
29.650	97.276	35.9	32.0	-0.49	-9999.0	-9999.0	-9999.0	-9999.0
29.750	97.604	34.9	32.0	-0.51	-9999.0	-9999.0	-9999.0	-9999.0
29.850	97.932	35.3	33.0	-0.49	-9999.0	-9999.0	-9999.0	-9999.0
29.950	98.260	42.0	34.0	-0.30	-9999.0	-9999.0	-9999.0	-9999.0
30.050	98.588	42.9	34.0	-0.80	-9999.0	-9999.0	-9999.0	-9999.0
30.150	98.936	41.2	36.0	-0.83	-9999.0	-9999.0	-9999.0	-9999.0
30.250	99.244	41.8	38.0	-1.02	-9999.0	-9999.0	-9999.0	-9999.0
30.350	99.572	41.1	34.0	-1.16	-9999.0	-9999.0	-9999.0	-9999.0
30.450	99.900	42.3	34.0	-0.46	-9999.0	-9999.0	-9999.0	-9999.0
31.950	100.228	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	5.525	16.0
31.650	100.557	64.4	38.0	-0.09	2.717	457.3	-9999.0	-9999.0

Appendix C

GeoSyntec

Hole:CPT-05-001
Location:Pigeon Point

Cone:20 TON AD157
Date:03:03:05 08:57

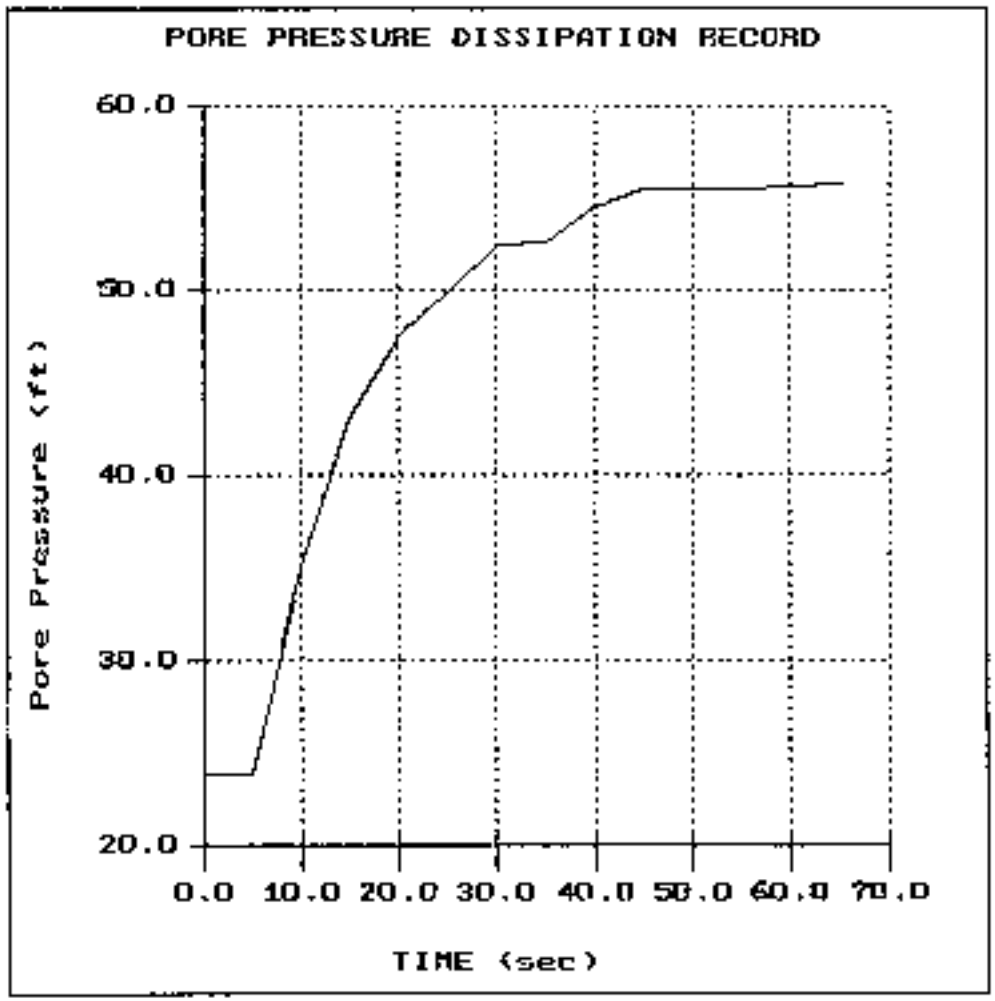


File: 721CP01.PPD
Depth (m): 6.30
(ft): 20.67
Duration : 4700.0s
U-min: 10.93 4650.0s
U-max: 28.81 550.0s

GeoSyntec

Hole:CPT-05-001
Location:Pigeon Point

Cone:20 TON AD157
Date:03:03:05 08:57

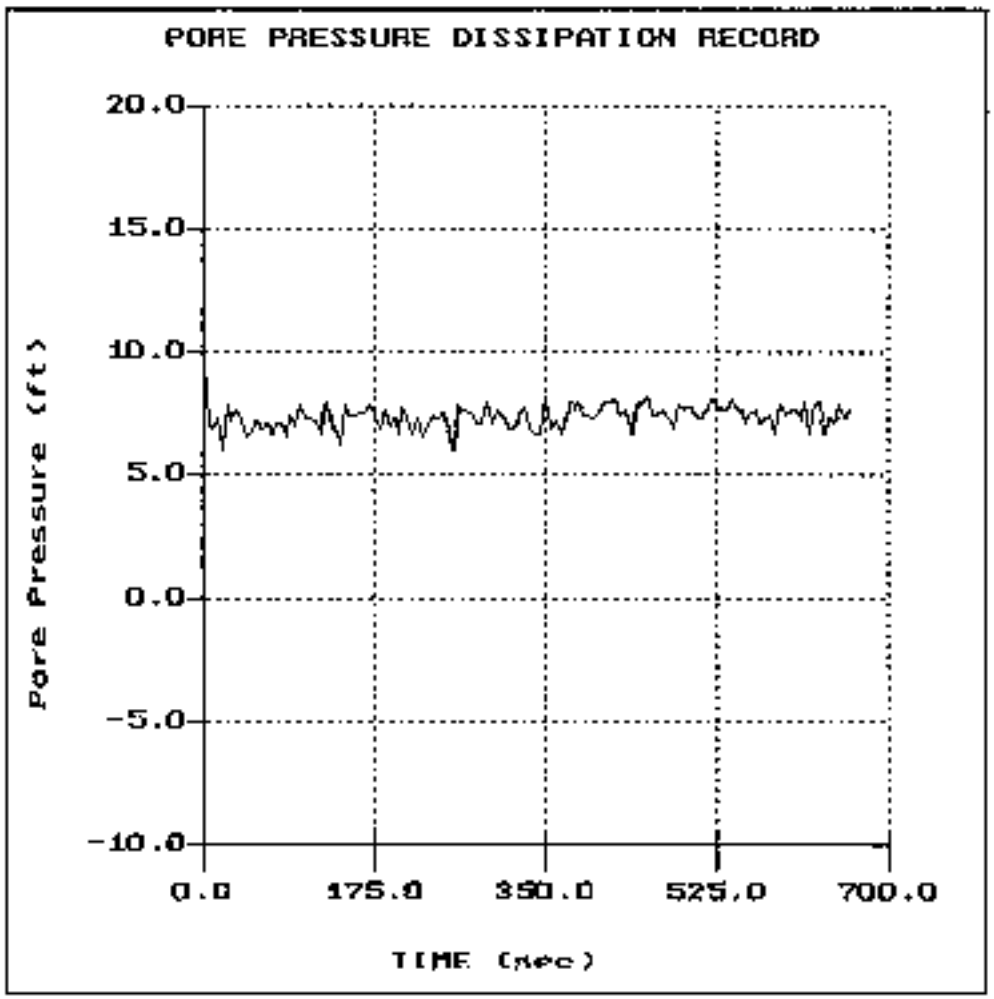


File: 721CP01.PPD
Depth (m): 24.75
(ft): 81.20
Duration : 65.0s
U-min: 23.84 5.0s
U-max: 55.89 65.0s

GeoSyntec

Hole:CPT-05-002
Location:Pigeon Point

Cone:20 TON AD157
Date:03:03:05 11:58

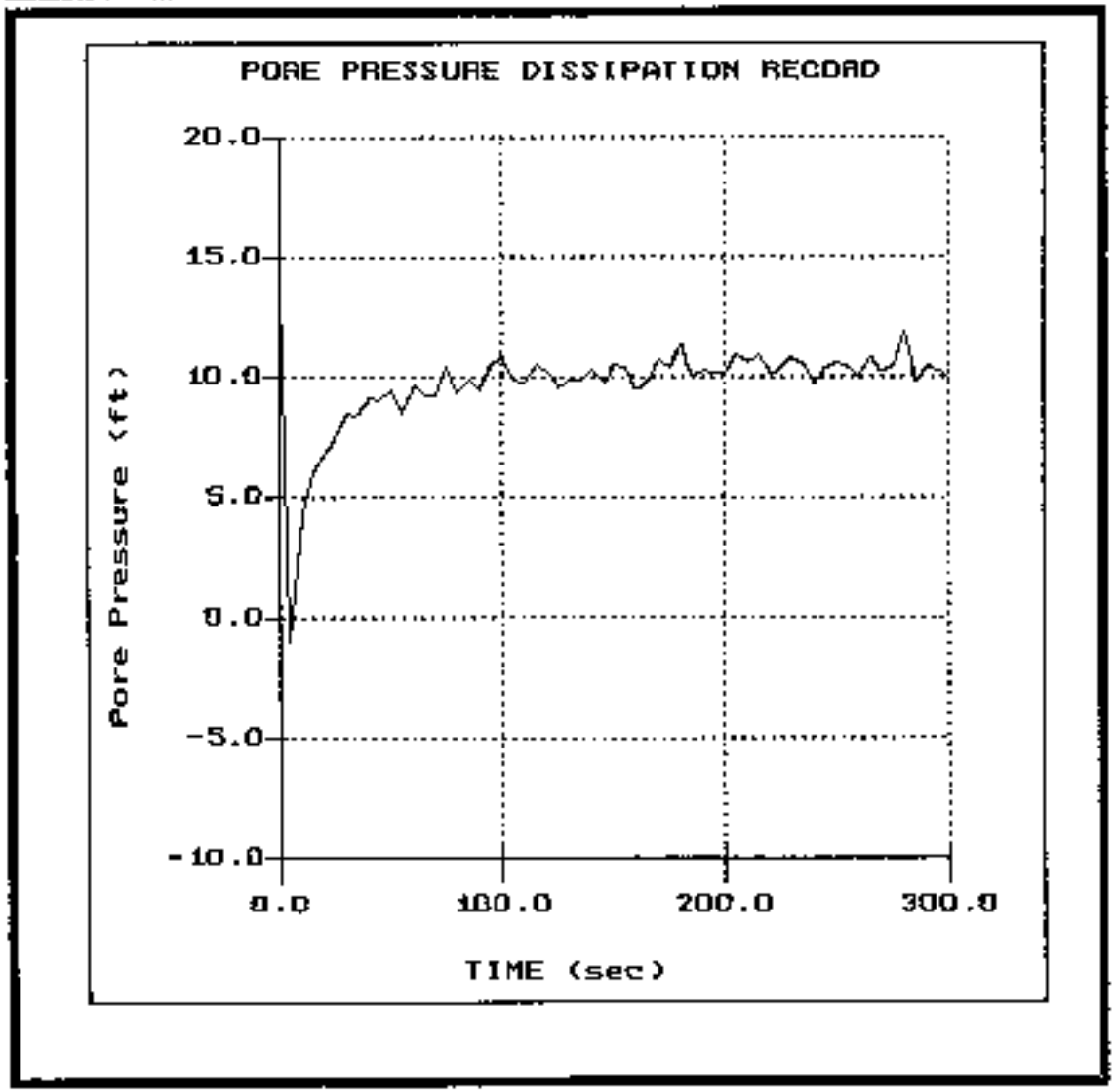


File: 721CP02.PPD
Depth (m): 6.30
(ft): 20.67
Duration : 660.0s
U-min: 5.96 255.0s
U-max: 9.67 0.0s

GeoSyntec

Hole:CPT-05-002
Location:Pigeon Point

Cone:20 TON AD157
Date:03:03:05 11:58

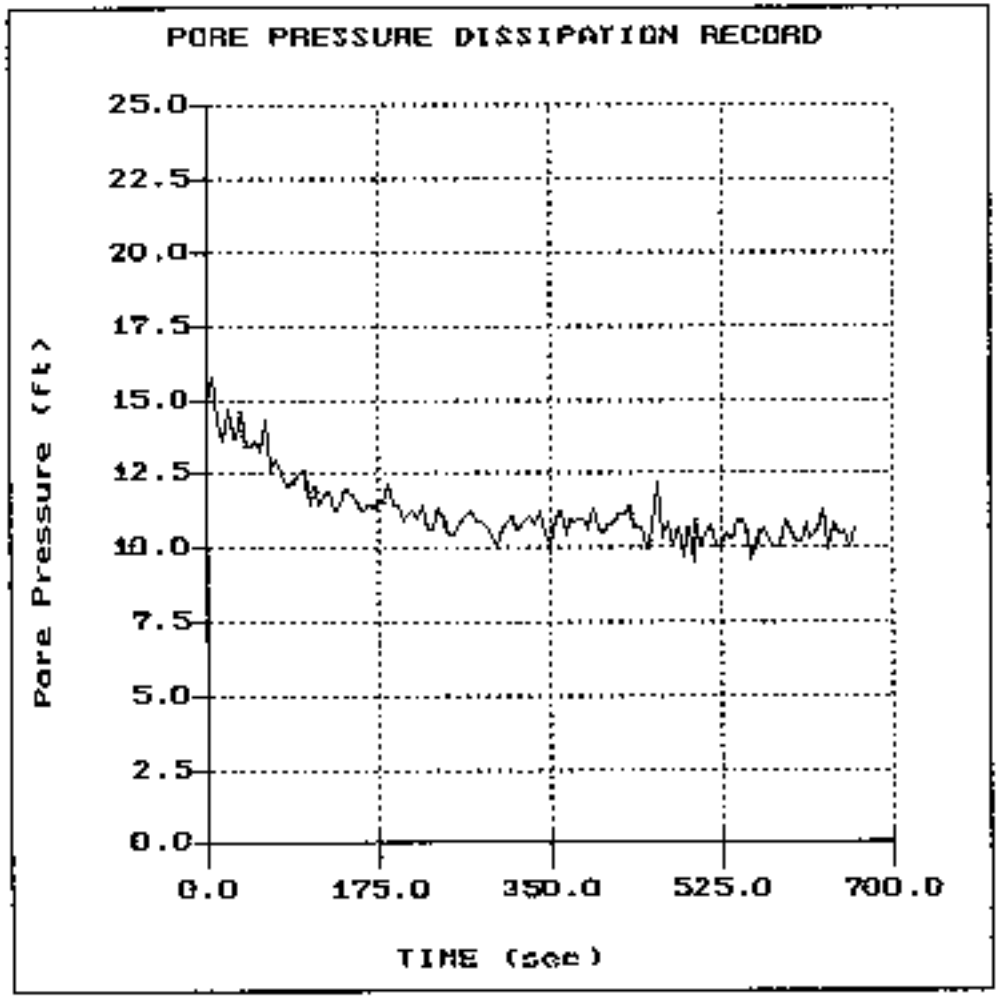


File: 721CP02.PPD
Depth (m): 9.30
(ft): 30.51
Duration : 300.0s
U-min: -0.99 5.0s
U-max: 14.17 0.0s

GeoSyntec

Hole:CPT-05-003
Location:Pigeon Point

Cone:20 TON AD157
Date:03:03:05 13:24

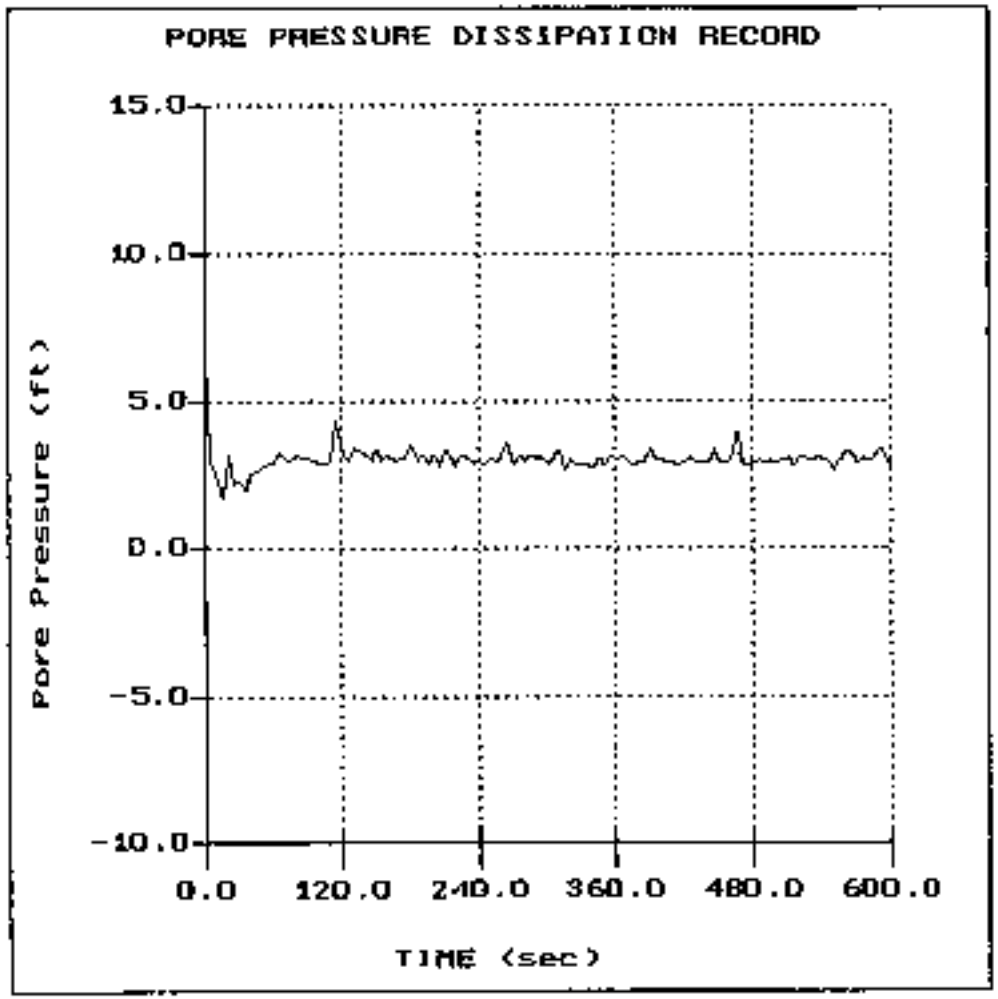


File: 721CP03.PPD
Depth (m): 9.15
(ft): 30.02
Duration : 660.0s
U-min: 9.43 495.0s
U-max: 15.81 5.0s

GeoSyntec

Hole:CPT-05-004
Location:Pigeon Point

Cone:20 TON AD157
Date:03:07:05 10:24

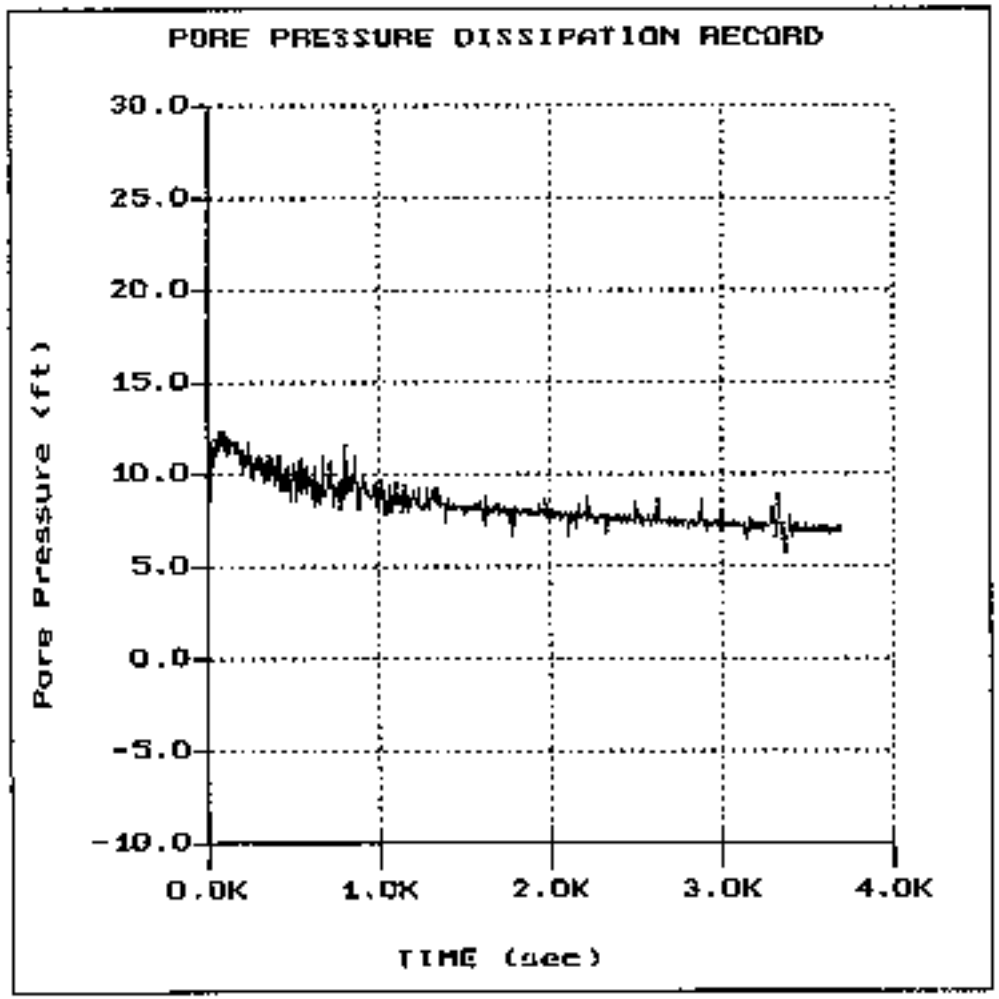


File: 721CP04.PPD
Depth (m): 3.75
(ft): 12.30
Duration : 600.0s
U-min: 1.60 15.0s
U-max: 6.71 0.0s

GeoSyntec

Hole:CPT-05-004A
Location:Pigeon Point

Cone:20 TON AD157
Date:03:07:03 11:04

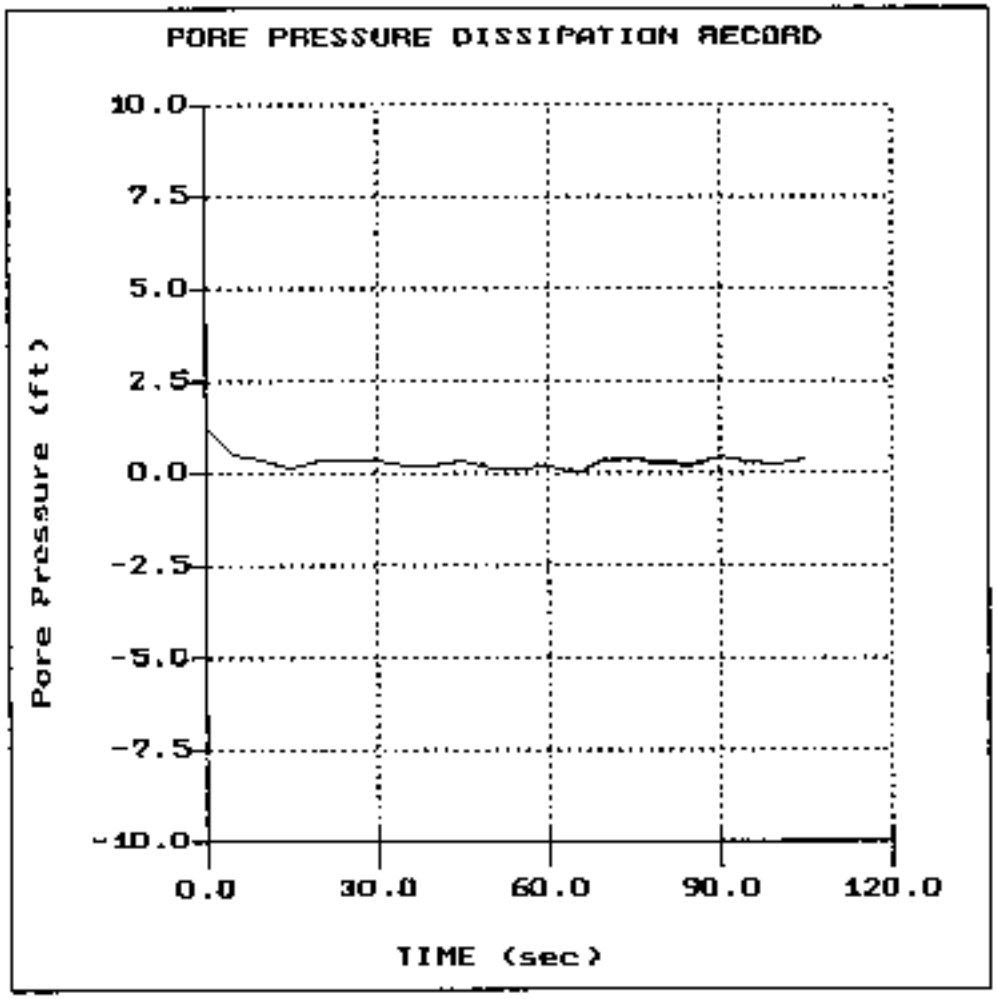


File: 721CP04A.PPD
Depth (m): 6.00
(ft): 19.69
Duration : 3700.0s
U-min: 5.73 3375.0s
U-max: 12.34 100.0s

GeoSyntec

Hole:CPT-05-005
Location:Pigeon Point

Cone:20 TON AD157
Date:03:07:05 07:47

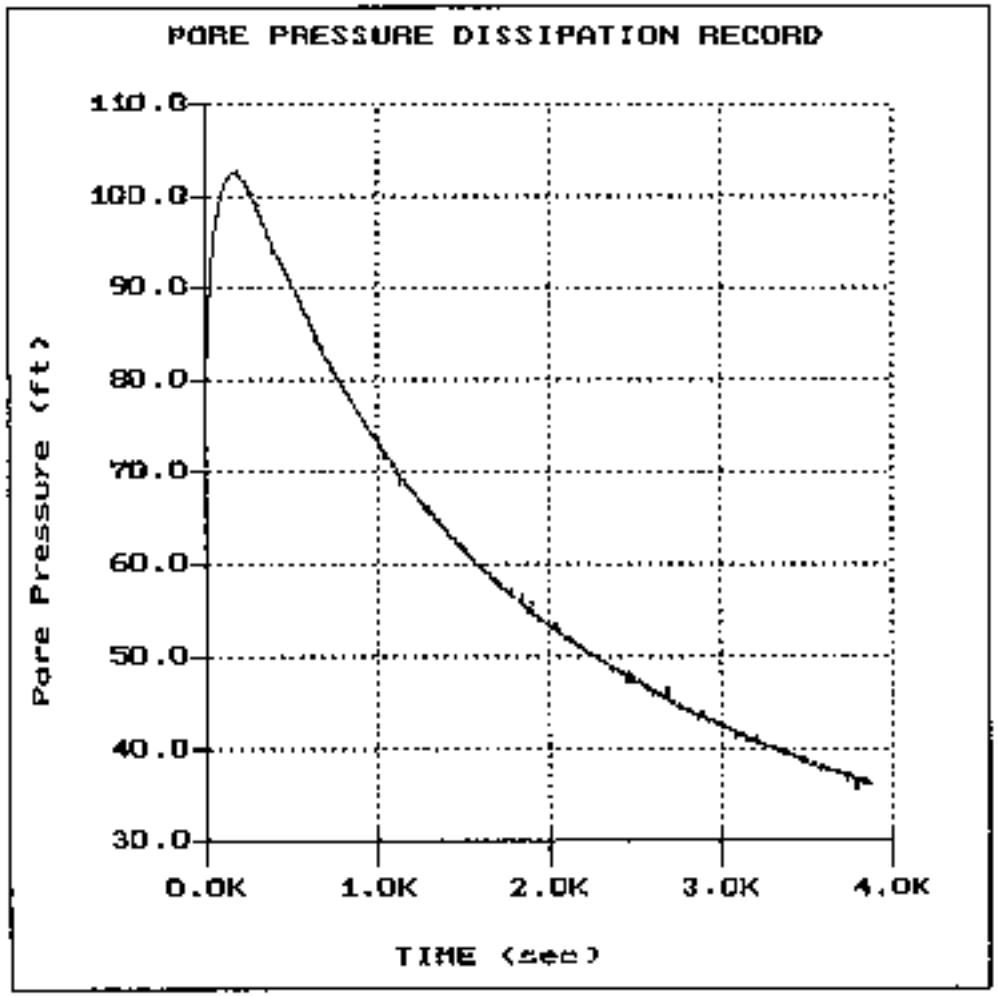


File: 721CP05.PPD
Depth (m): 2.30
(ft): 7.55
Duration : 105.0s
U-min: 0.00 65.0s
U-max: 1.27 0.0s

GeoSyntec

Hole:CPT-05-005
Location:Pigeon Point

Cone:20 TON AD157
Date:03:07:05 07:47

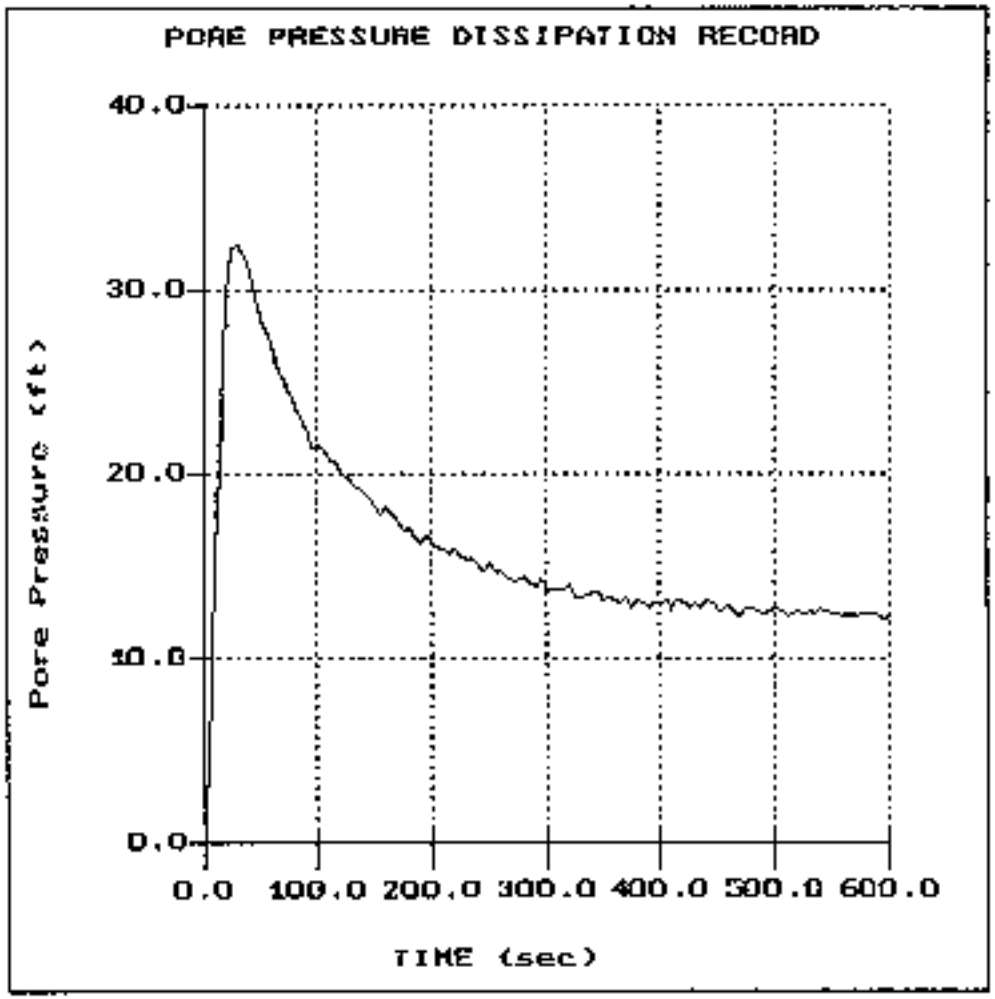


File: 721CP05.PPD
Depth (m): 11.00
(ft): 36.09
Duration : 3880.0s
U-min: 35.62 3790.0s
U-max: 102.73 180.0s

GeoSyntec

Hole:CPT-05-006
Location:Pigeon Point

Cone:20 TON AD157
Date:03:04:05 14:17

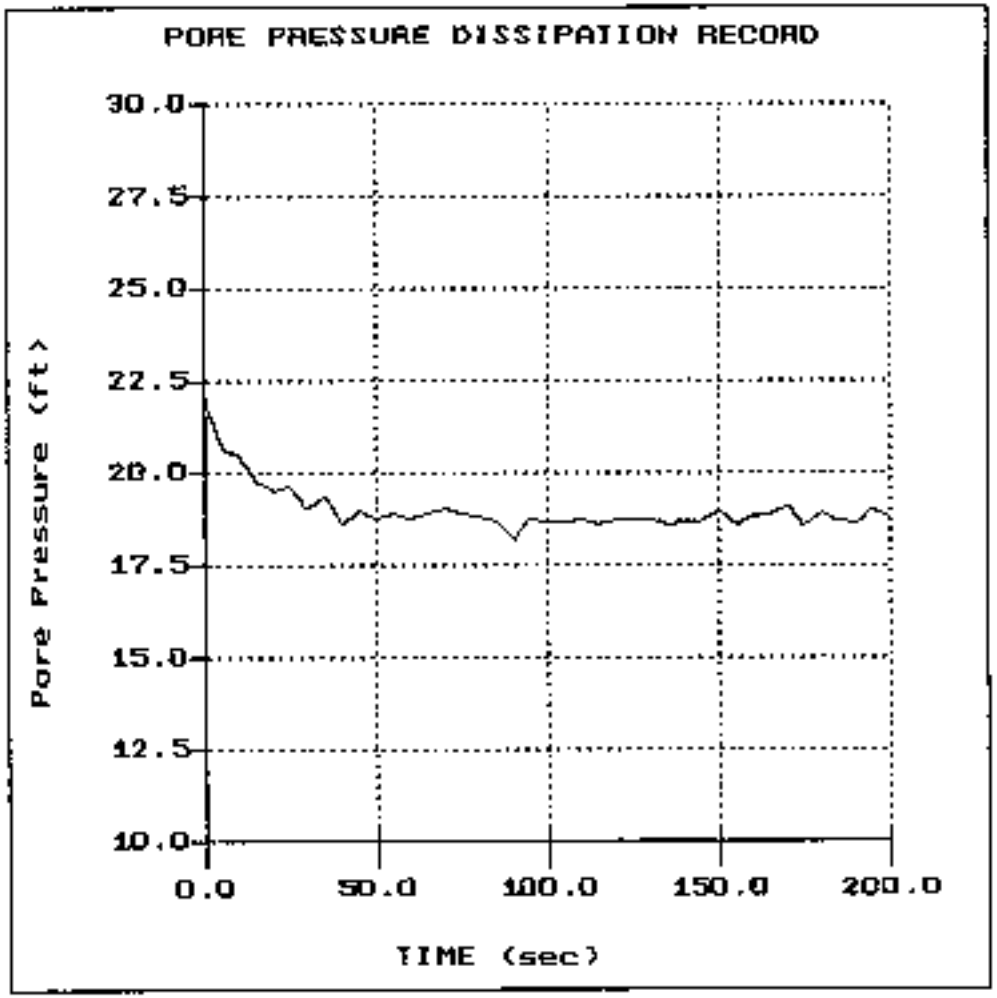


File: 721CP06.PPD
Depth (m): 18.90
(ft): 62.01
Duration : 600.0s
U-min: 1.13 0.0s
U-max: 32.47 30.0s

GeoSyntec

Hole:CPT-05-007
Location:Pigeon Point

Cone:20 TON AD157
Date:03:04:05 12:40

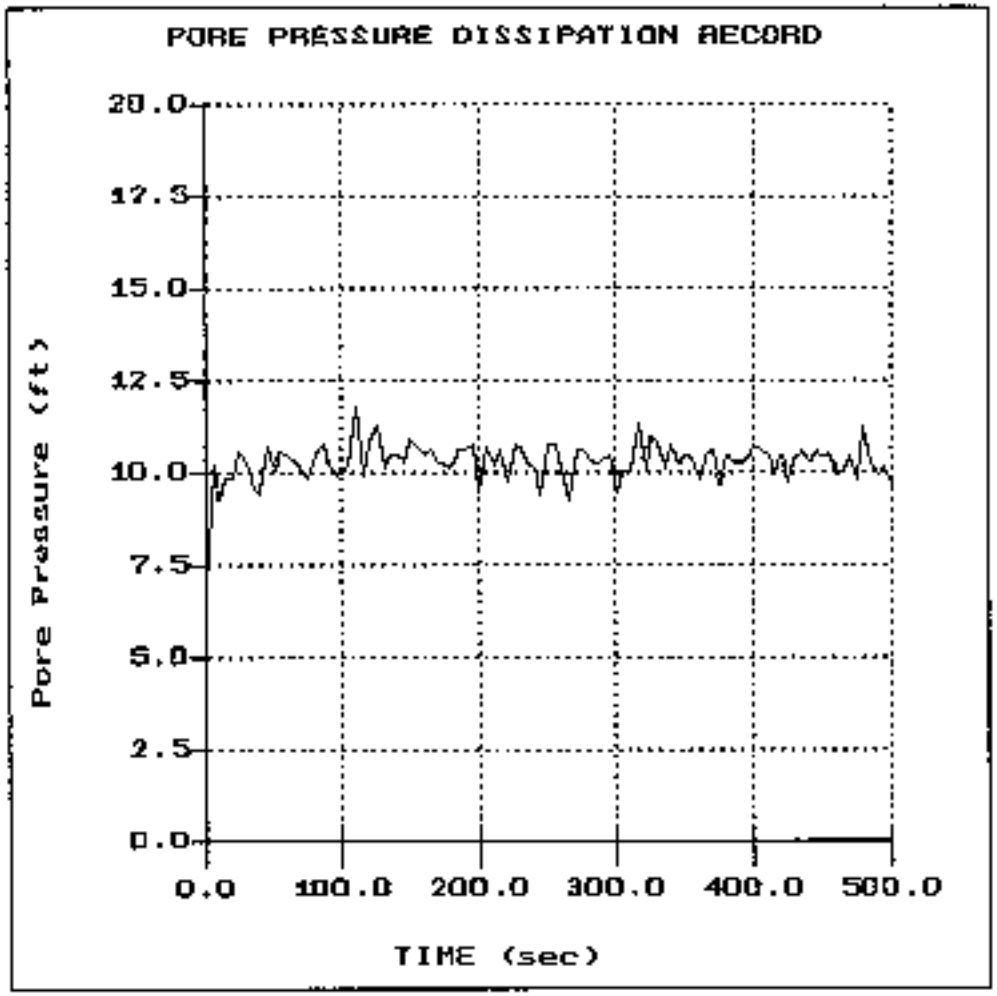


File: 721CP07.PPD
Depth (m): 13.80
(ft): 45.28
Duration : 200.0s
U-min: 18.16 90.0s
U-max: 21.96 0.0s

GeoSyntec

Hole:CPT-05-008
Location:Pigeon Point

Cone:20 TON AD157
Date:03:04:05 09:27

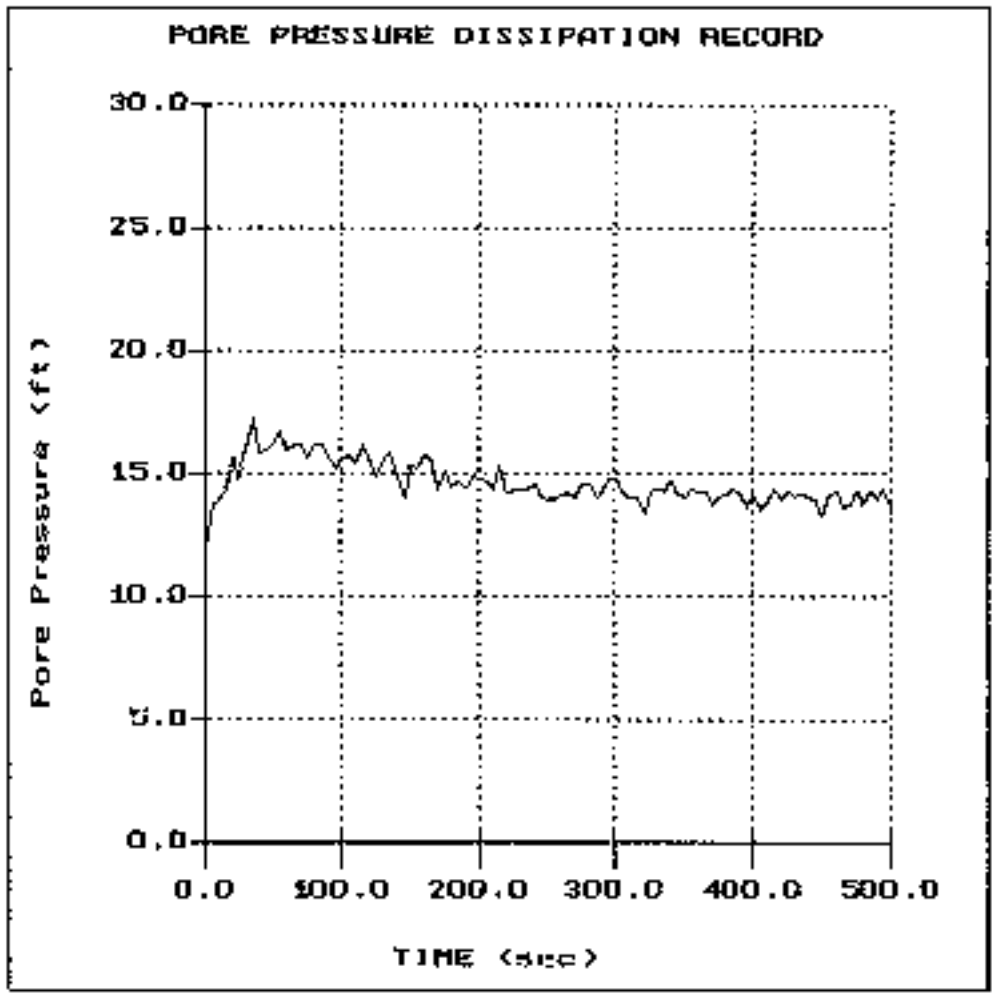


File: 721CPD8.PPD
Depth (m): 8.25
(ft): 27.07
Duration : 500.0s
U-min: 6.71 0.0s
U-max: 11.78 110.0s

GeoSyntec

Hole:CPT-DS-009
Location:Pigeon Point

Cone:20 TON AD157
Date:03:04:05 09:27

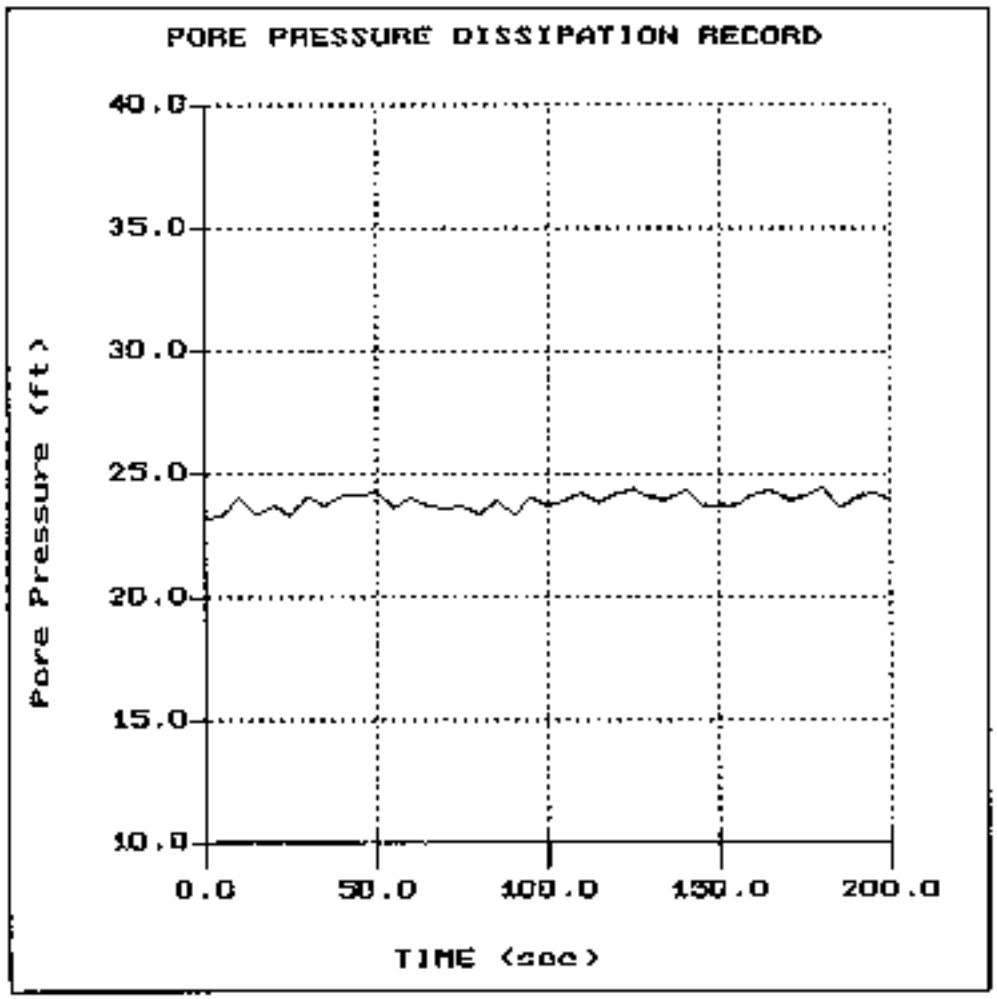


File: 721CP09.PPD
Depth (m): 10.25
(ft): 33.63
Duration : 500.0s
U-min: 11.83 0.0s
U-max: 17.22 35.0s

GeoSyntec

Hole:CPT-05-008
Location:Pigeon Point

Cone:20 TON AD157
Date:03:04:05 09:27



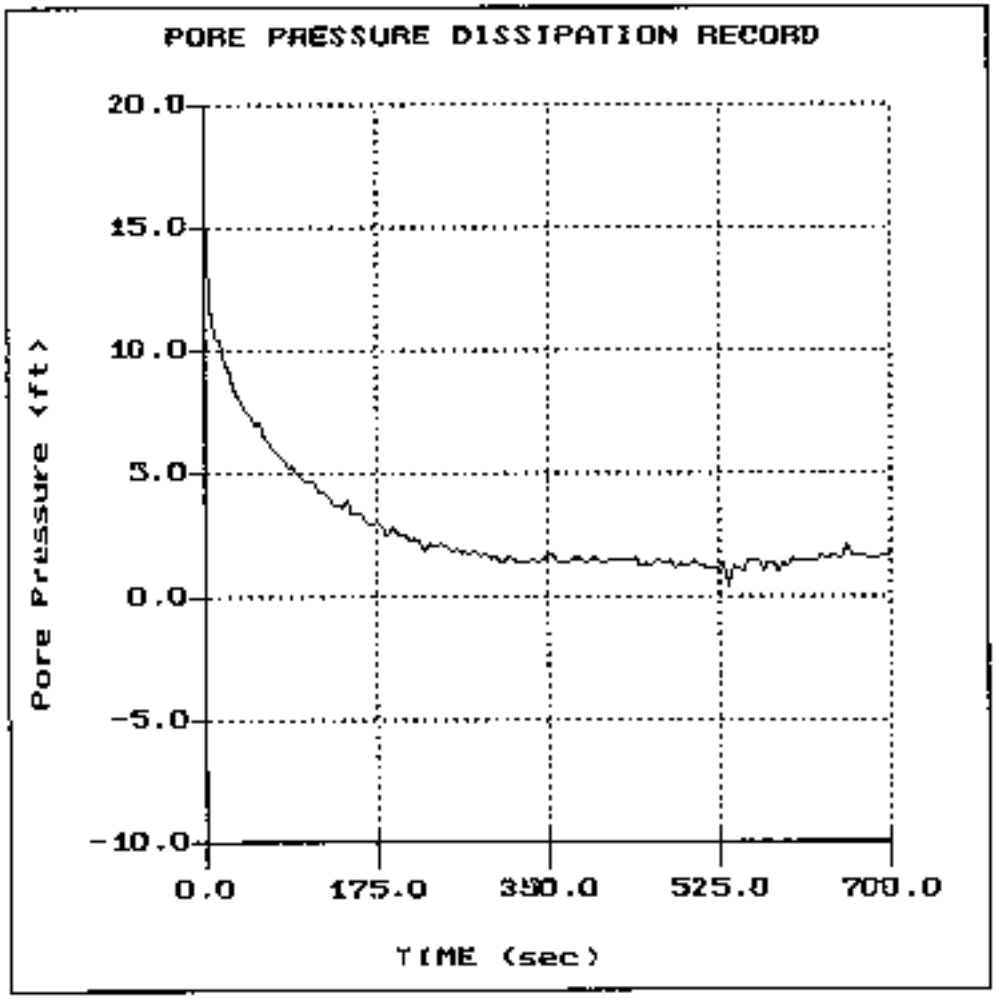
File: 721CP08.PPD
Depth (m): 15.80
(ft): 51.84
Duration : 200.0s
U-min: 23.18 0.0s
U-max: 24.50 180.0s

GeoSyntec

Hole:CPT-05-0012
Location:Pigeon Point

Cone:20 TON AD157
Date:03:07:05 13:41

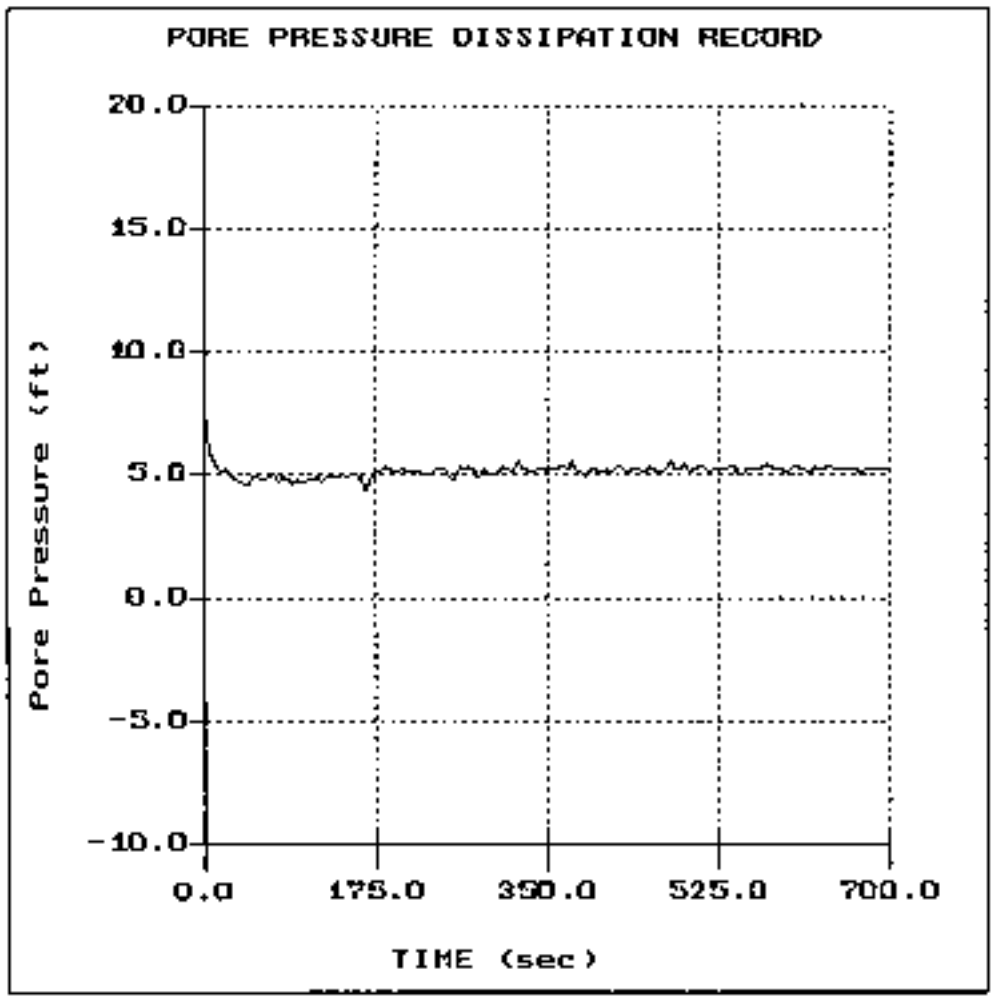
File: 721CP12A.PPD
Depth (m): 3.20
(ft): 10.50
Duration : 700.0s
U-min: 0.38 535.0s
U-max: 16.05 0.0s



GeoSyntec

Hole:CPT-05-0012
Location:Pigeon Point

Cone:20 TON AD157
Date:03:07:05 13:41

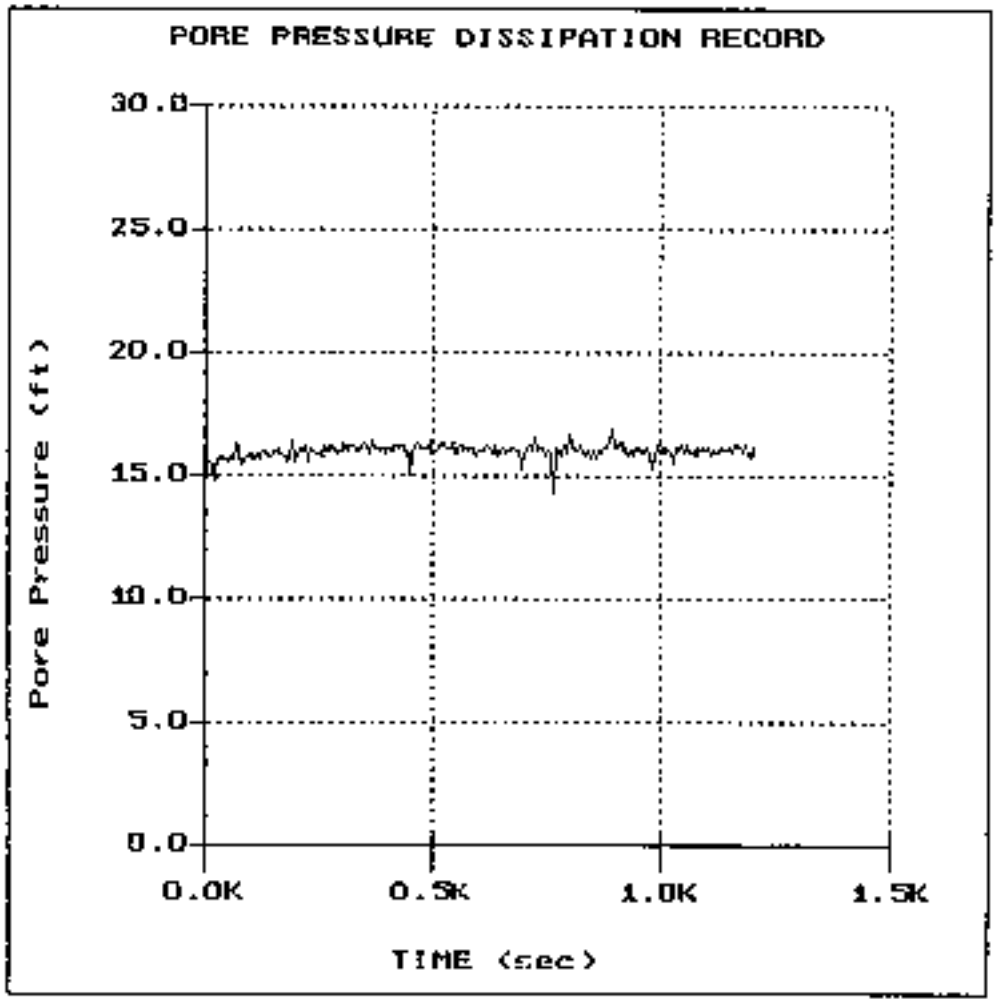


File: 721CP12A.PPD
Depth (m): 6.20
(ft): 20.34
Duration : 700.0s
U-min: 4.41 165.0s
U-max: 7.70 0.0s

GeoSyntec

Hole:CPT-05-0812
Location:Pigeon Point

Cone:20 TON AD157
Date:03:07:05 13:41



File: 721CP12A.PPD
Depth (m): 10.70
(ft): 35.10
Duration : 1200.0s
U-min: 14.31 760.0s
U-max: 16.89 890.0s

Appendix D
Electronic Data
Provided on CD
In Attachment 2

GeoSyntec Consultants
10015 Old Columbia Road, Suite A-200
Columbia, Maryland 21046
Telephone: (410) 381-4333
Fax: (410) 381-4499

BORING LOG

BOREHOLE NO.: IC-05-001
TOTAL DEPTH (ft): 54

PROJECT:	Pigeon Point	DRILLING CO:	Summit Site Services	SURFACE ELEVATION (ft):	15.6
SITE LOCATION:	Wilmington, Delaware	DRILLER:	Rich Kimes	BORING LOCATION:	
PROJECT NO.:	MB0414	RIG TYPE:	Mobile B-61	Northing (ft):	618841
LOGGED BY:	Shana Opdyke	METHOD OF DRILLING:	Mud Rotary	Easting (ft):	624948
DATE STARTED:	03/01/2005	SAMPLING METHOD:	No samples		
DATE COMPLETED:	03/07/2005	HAMMER WT /DROP:	No samples		

Depth (ft)	Elevation (ft-msl)	Graphic Log	Soil/Material Description	Remarks	Instrument Location
0	15.00		Brownish grey SILTY CLAY	Mud rotary with 6" diameter tri-cone roller bit	
-5	10.00				
-10	5.00			3.34" diameter ABS inclinometer casing installed	
-15	0.00				
-20	-5.00			Backfilled with Bentonite/Cement grout	
-25	-10.00				
-30	-15.00				
-35	-20.00				

GeoSyntec Consultants
10015 Old Columbia Road, Suite A-200
Columbia, Maryland 21045
Telephone: (410) 381 4333
Fax: (410) 381 4499

BORING LOG

BOREHOLE NO.: IC-05-001
TOTAL DEPTH (ft): 54

PROJECT:	Pigeon Point	DRILLING CO.:	Summit Site Services	SURFACE ELEVATION (ft):	15.0
SITE LOCATION:	Wilmington, Delaware	DRILLER:	Rich Kimes	BORING LOCATION:	
PROJECT NO.:	ME0414	RIG TYPE:	Mobile B-61	Northing (ft):	618841
LOGGED BY:	Shana Opdyke	METHOD OF DRILLING:	Mud Rotary	Easting (ft):	624949
DATE STARTED:	03/05/2005	SAMPLING METHOD:	No samples		
DATE COMPLETED:	03/07/2005	HAMMER WT./DROP:	No samples		

Depth (ft)	Elevation (ft-msl)	Graphic Log	Soil/Material Description	Remarks	Instrument Location
40					
45	-25.00				
50	-30.00		Fine to medium SAND		
	-39.00		Inclinometer bottom terminated at 54 ft below existing ground surface		

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Columbia, Maryland 21046
Telephone: (410) 381-4333
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BORING LOG

BOREHOLE NO : IC-05-002
TOTAL DEPTH (ft). 58

PROJECT:	Pigeon Point	DRILLING CO	Summit Site Services	SURFACE ELEVATION (ft):	14.8
SITE LOCATION	Wilmington, Delaware	DRILLER.	Rick Kimes	BORING LOCATION	
PROJECT NO.:	ME0414	RIG TYPE	Mobile B-61	Northing (ft).	617174
LOGGED BY	Byron York	METHOD OF DRILLING:	Mud Rotary	Easting (ft):	923209
DATE STARTED	03/09/2005	SAMPLING METHOD	No samples		
DATE COMPLETED	03/09/2005	HAMMER WT./DROP:	No samples		

Depth (ft)	Elevation (ft msl)	Graphic Log	Soil/Material Description	Remarks	Instrument Location
0			Brownish grey SILTY CLAY	Mud rotary with 5" diameter tri-cone roller bit	
-5	10.00				
-10	5.00			3.34" diameter ABS inclinometer casing installed	
-15	0.00				
-20	-5.00			Backfilled with Bentonite/Cement grout	
-25	-10.00				
-30	-15.00				
-35	-20.00				

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10015 Old Columbia Road, Suite A-200
Columbia, Maryland 21046
Telephone: (410) 381 4333
Fax: (410) 381 4499

BORING LOG

BOREHOLE NO.: IC-05-002
TOTAL DEPTH (ft): 58

PROJECT:	Pigeon Point	DRILLING CO.:	Summit Site Services	SURFACE ELEVATION (ft)	14.8
SITE LOCATION:	Wilmington, Delaware	DRILLER:	Rich Kames	BORING LOCATION:	
PROJECT NO.:	SYE0434	RIG TYPE:	Mobile B-61	Northing (ft):	617174
LOGGED BY:	Ryan York	METHOD OF DRILLING:	Mud Rotary	Easting (ft):	623209
DATE STARTED	03/09/2005	SAMPLING METHOD:	No samples		
DATE COMPLETED:	03/09/2005	HAMMER WT (DROP):	No samples		

Depth (ft)	Elevation (ft msl)	Graphic Log	Soil/Material Description	Remarks	Instrument Location
-40	-25.00				
-45	-30.00				
-50	-35.00				
			Fine to medium SAND		
-55	-40.00		Inclinometer bottom terminated at 58 ft below existing ground surface		

RST Instrun : Ltd.

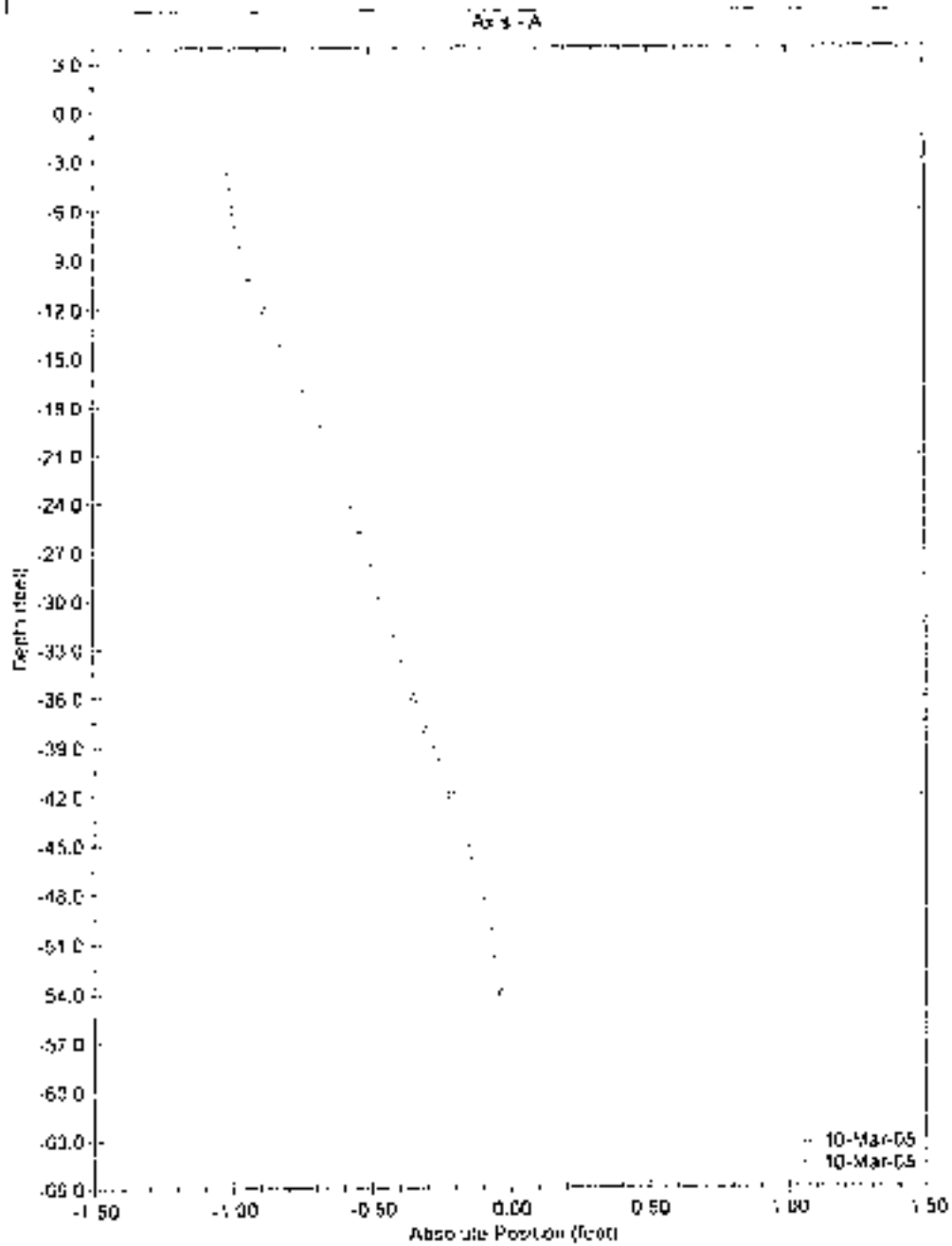
ABSOLUT OSITION

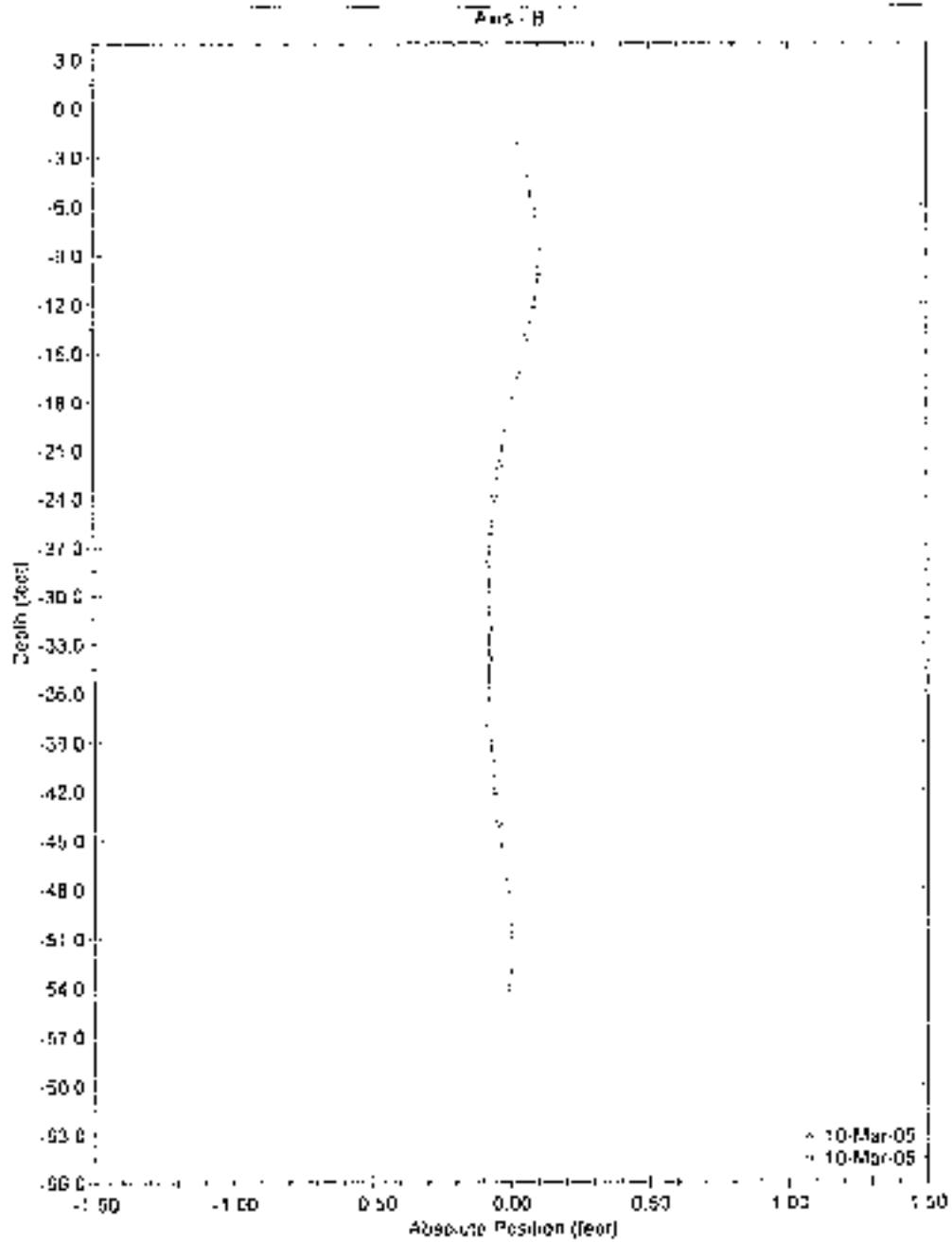
Inclinalysis

Borehole : IC-05-0
Project : Pigeon Point
Location
Northing : 81884
Easting : 624948

Spiral Correction : N/A
Collar Elevation : 20.5
Borehole Total Depth : 54.0 feet
North Groove Azimuth
Base Reading : 2005 Mar 10 11:08

IC-05-01





RST Instrum · Ltd.

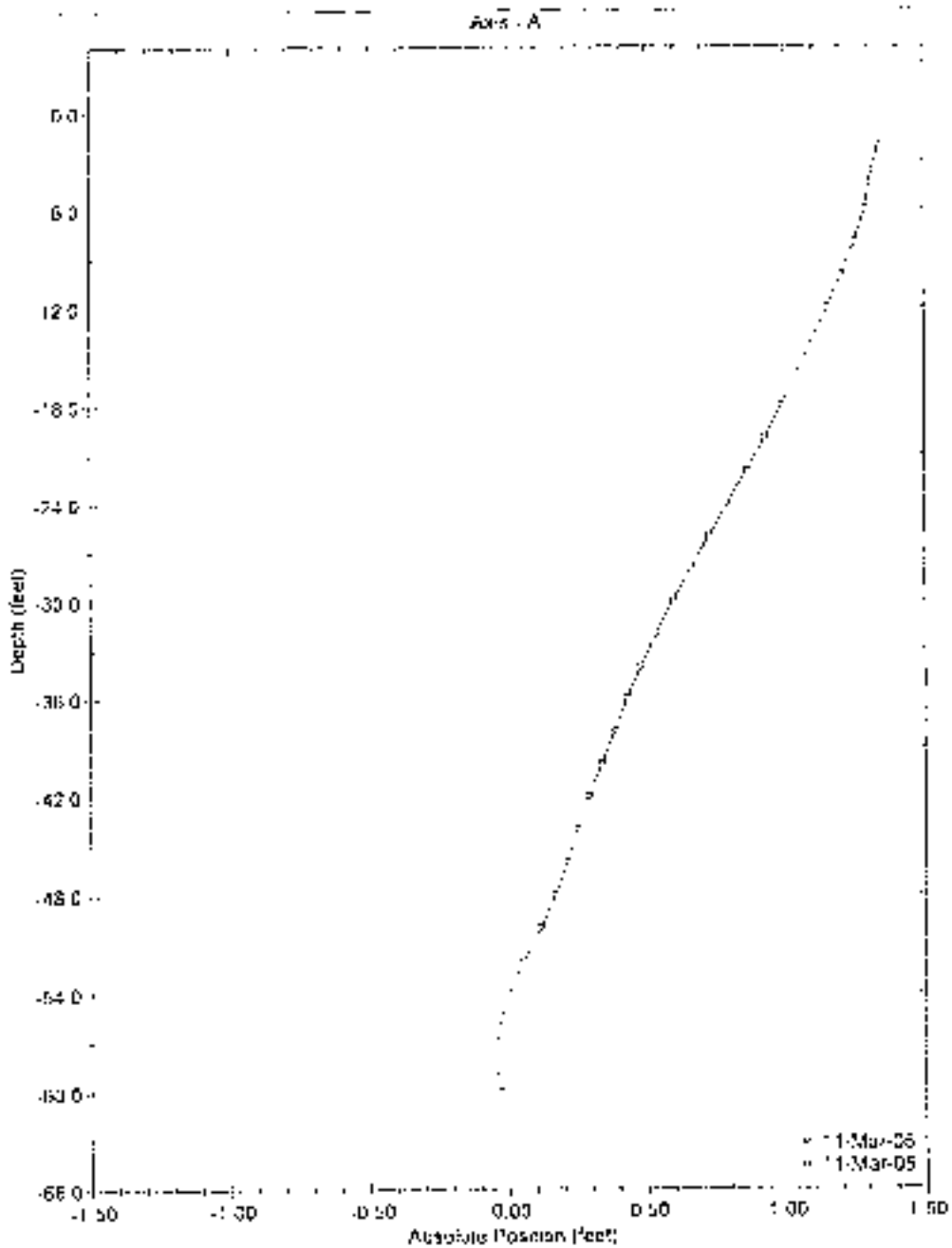
ABSOLUT OSITION

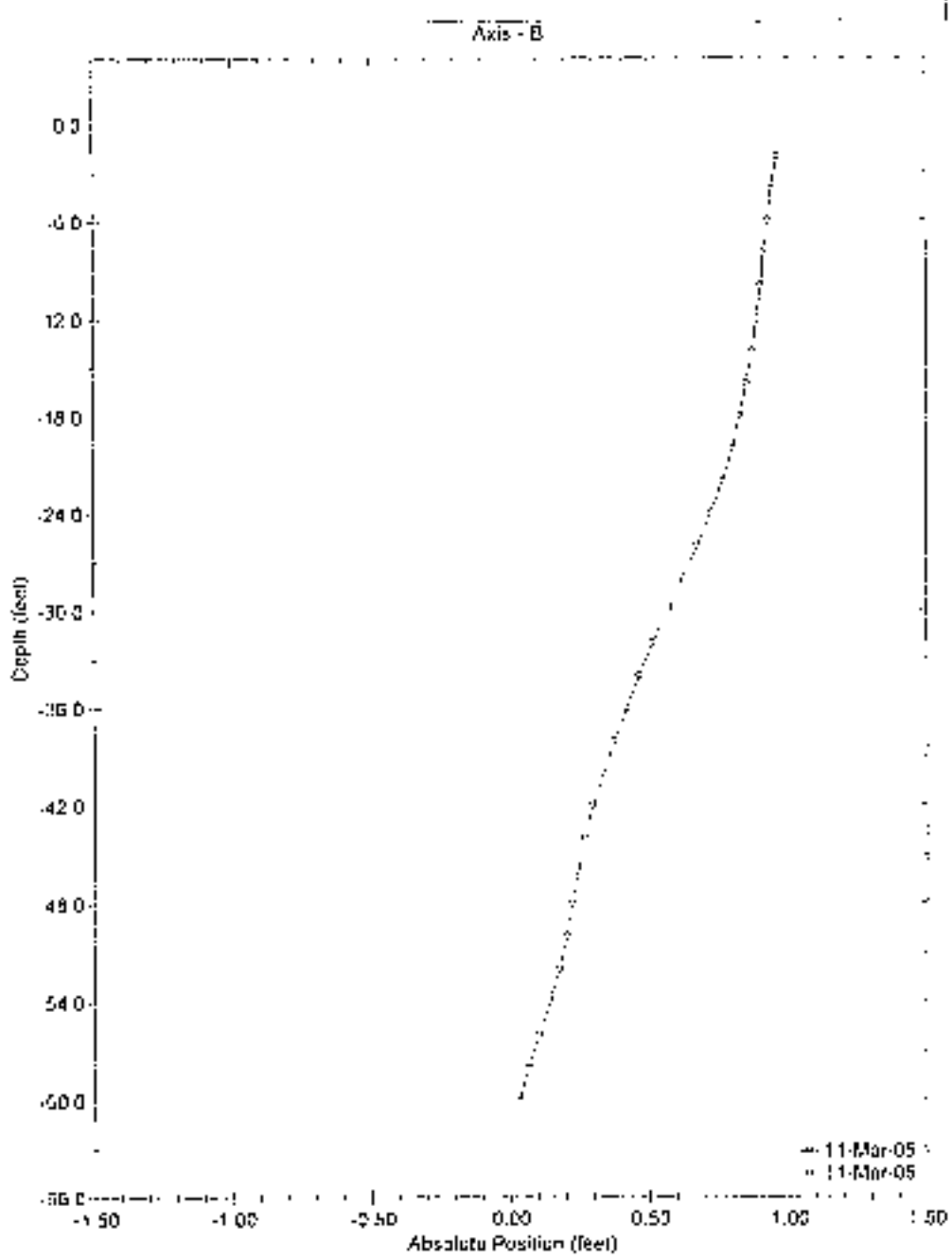
Inclinalysis

Borehole: IC-05-02
Project: Pigeon Point
Location:
Northing: 617174
Easting: 673208

Spiral Correction: N/A
Collar Elevation: 17.8
Borehole Total Depth: 50.0 feet
North Groove Azimuth:
Base Reading: 2005 Mar 11 07:29

IC-05-02





Attachment 3

Leachate Observation Well
Installation Details and Electronic Data

GeoSyntec Consultants
10015 Old Columbia Road, Suite A-200
Columbia, Maryland 21046
Telephone: (410) 381 4333
Fax: (410) 381 4499

BORING LOG

BOREHOLE NO: LOW-05-01
TOTAL DEPTH (ft): 32

PROJECT:	Pigeon Point	DRILLING CO.	Semcil Site Services	SURFACE ELEVATION (ft):	53.7
SITE LOCATION:	Wilmington, Delaware	DRILLER	Rich Kimes	BORING LOCATION	
PROJECT NO.:	MI0414	RIG TYPE	Mobile B-61	Northing (ft)	618931
LOGGED BY:	Byran York	METHOD OF DRILLING:	Mud Rotary	Easting (ft):	634640
DATE STARTED:	03/09/2005	SAMPLING METHOD:	No samples		
DATE COMPLETED:	03/09/2005	HAYMER WT./DROP:	No samples		

Depth (ft)	Elevation (ft msl)	Graphic Log	Soil/Material Description	Remarks	Instrument Location
0			Waste	Mud rotary with 6" diameter tri-cone roller bit	
	50.00			Installed with 2 in. diameter schedule 40 PVC casing	
-5				Initial liquid level	
	45.00				
-10				Backfilled with bentonite pellets	
	40.00				
-15					
	35.00				
-20					
	30.00				
-25				Backfilled with No. 2 Sand	
	25.00			0.01" slotted screen	
-30			Leachate observation well terminated at 32 ft below existing ground surface	2 in. PVC end cap	

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BORING LOG

BOREHOLE NO.: LOW-05-02

TOTAL DEPTH (ft): 38

PROJECT:	Pigeon Point	DRILLING CO.:	Summit Site Services	SURFACE ELEVATION (ft)	61.4
SITE LOCATION:	Wilmington, Delaware	DRILLER:	Rich Kjaer	BORING LOCATION:	
PROJECT NO.:	ME0414	RIG TYPE	Mobile B-61	Northing (ft):	617523
LOGGED BY:	Byron York	METHOD OF DRILLING:	Mud Rotary	Easting (ft):	623409
DATE STARTED:	03/09/2005	SAMPLING METHOD	No samples		
DATE COMPLETED	03/09/2005	HAMMER WT./DROP	No samples		

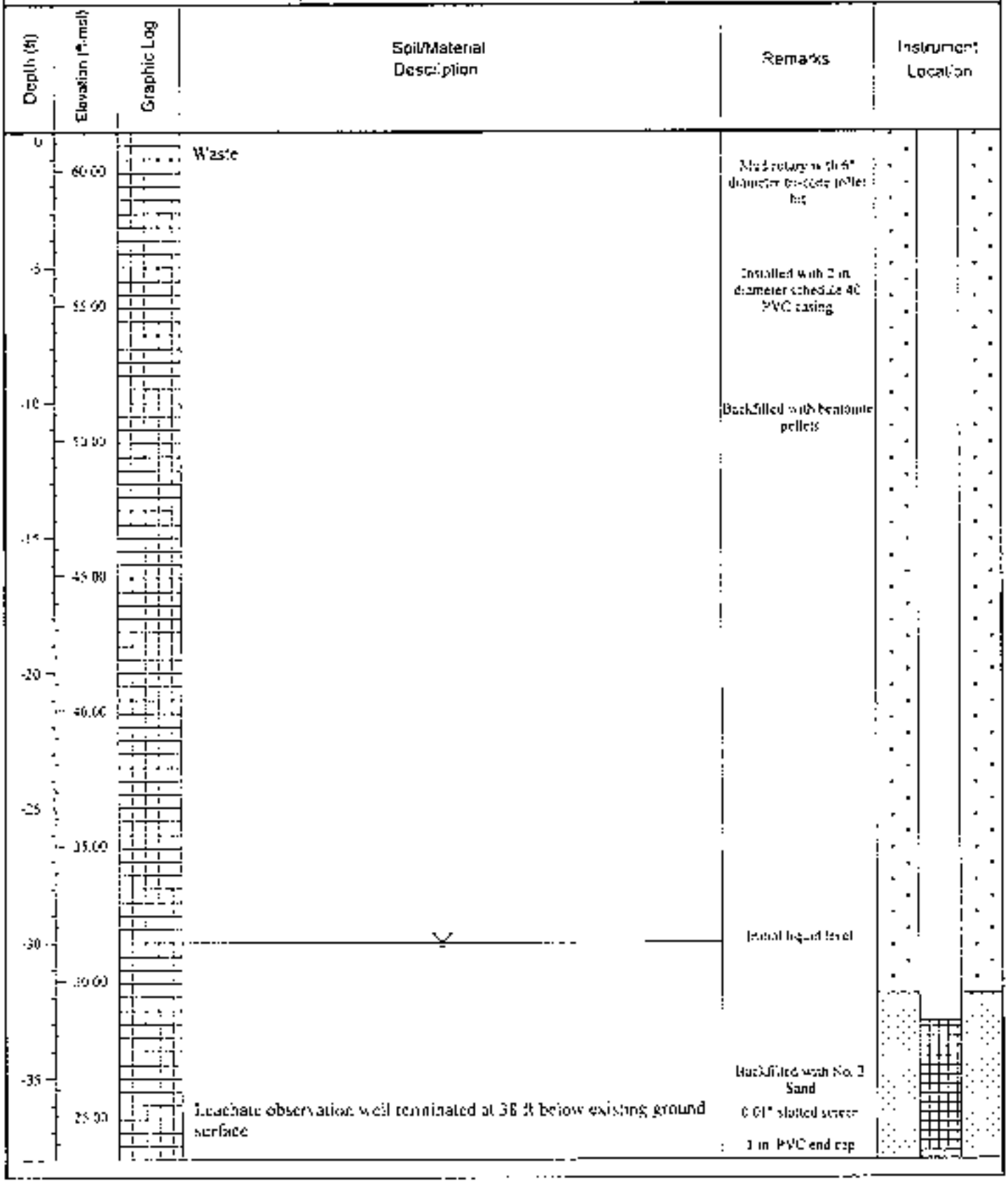


TABLE 1

OBSERVED LIQUID LEVEL IN LEACHATE OBSERVATION WELL LOW-05-01

SUPPLEMENTARY SLOPE STABILITY EVALUATION FOR PIGEON POINT LANDFILL
PIGEON POINT LANDFILL
WILMINGTON, DELAWARE

ID:	LOW-05-01
Top of Casing Elevation (ft-msl)	55.10
Ground Surface Elevation (ft-msl)	53.70
Screened Elevation Interval (ft-msl)	26.78 to 31.78

(1) Depth measured from top of casing

(2) Piezometric elevation = Top of casing elevation - Depth measured from top of casing

Date	Time	Liquid Level	
		Depth(1) (ft)	Elevation(2) (ft-msl)
3/9/2005	07:45	7.00	48.10
3/9/2005	16:00	16.64	38.46
3/10/2005	10:00	16.09	39.01
3/10/2005	16:30	16.62	38.48
3/11/2005	08:00	16.19	38.91

TABLE 2

OBSERVED LIQUID LEVEL IN LEACHATE OBSERVATION WELL LOW-05-02

SUPPLEMENTARY SLOPE STABILITY EVALUATION FOR PIGEON POINT LANDFILL
PIGEON POINT LANDFILL
WILMINGTON, DELAWARE

ID:	LOW-05-02
Top of Casing Elevation (ft-msl):	63.20
Ground Surface Elevation (ft-msl):	61.40
Screened Elevation Interval (ft-msl):	28.48 to 23.48

(1) Depth measured from top of casing

(2) Piezometric elevation = Top of casing elevation - Depth measured from top of casing

Date	Time	Liquid Level	
		Depth(1) (ft)	Elevation(2) (ft-msl)
3/9/2005	13:30	30.00	33.20
3/9/2005	16:00	30.38	32.82
3/10/2005	10.00	30.11	33.09
3/10/2005	16:30	34.01	29.19
3/11/2005	09:00	33.17	30.03

Attachment 4

Daily Field Logs

GEOSYNTEC CONSULTANTS

DAILY FIELD REPORT

PROJECT: PIGEON POINT LANDFILL LOCATION: Wilmington, Delaware

PROJECT NO. ME0414 TASK NO. 05 DATE: (mm/dd/yyyy) 3 March 05

WEATHER: sunny, windy, 30's HEALTH AND SAFETY ISSUES: tailgate meeting with ConeTec Personnel, went over HASP and slip/trip/fall hazard in detail

07:45 arrived on-site, Rick Pope, Andy Carpenter, and Dave Grygar from ConeTec on-site

08:00 drove site to show ConeTec CPT locations

08:45 tailgate HASP meeting with Rick, Andy and Dave as described above

09:00 set up of CPT-05-001, ConeTec leveled rig, tested resistivity probe, and put a new saturated porous stone on cone tip for test

11:00 finished CPT-05-001 and moved to CPT-05-002.

12:00 Talked with Waylon Pleasanton (DSWA) to get locations for Leachate Collection System and Landfill Gas System.

14:00 Provided maps of Leachate Collection and Landfill Gas System to ConeTec

14:30 Marked CPT locations CPT-05-009 through CPT-05-013 with Waylon Pleasanton (DSWA).

15:30 ConeTec rig broke, they can not fix it today and they will have to get a new hose for tomorrow. Rick Pope said that they would make up the time lost today on Monday

15:45 Off-site

COPY TO FILE GeoSyntec Rep.: Shana Opdyke

GEOSYNTEC CONSULTANTS

DAILY FIELD REPORT

PROJECT PIGEON POINT LANDFILL LOCATION: Wilmington, Delaware

PROJECT NO ME0414 TASK NO. 05 DATE: (mm/dd/yyyy) 7 March 05

WEATHER: sunny, clear 50's HEALTH AND SAFETY ISSUES tailgate meeting with ConeTec and Summit Personnel, went over HASP, slip/trip/fall hazard, and personal protective equipment required

08:30 arrived on-site. Mike and Dave from ConeTec on-site. Rich Kimes and drilling crew from Summit Site Services on-site

08:45 drove site to show Summit boring locations; Byran York (GeoSyntec)

08:45 tailgate HASP meeting with as described above, gave ConeTec and Summit Site Services a copy of the Geosyntec HASP, Byran York signed Geosyntec HASP

09:00 Summit set up for drilling IC-05-001. Talked with Waylon Pleasanton (DSWA) to discuss where drillers should get water for drilling. He advised that any fire hydrant on-site would be fine to get water for the water truck.

10:00 went to Cherry Island Landfill to pick up inclinometer casing that had been shipped there. Casing to be used is 3.34 inch diameter, ref ABS inclinometer casing provided by Geomar

11:00 Talked with Waylon Pleasanton (DSWA) to discuss where we should place leachate that is pumped from boring while we are installing leachate observation wells. He said it would be okay to pump it into one of the active manholes for the leachate collection system

12:00 Byran York took over installation of Inclinometer IC-05-001. Final depth of boring was 54 ft, sand layer encountered at 48 ft. Bentonite/Cement grout was used with a ratio of 2 94 lb bags of cement to 1 50 lb bag of bentonite with 30 gallons of water. More complete details in Byran's daily on boring log.

14:30 Off-site

COPY TO: FILE GeoSyntec Rep Shana Opdyke

GeoSyntec Consultants

DAILY FIELD REPORT

PROJECT: Pigeon Point Landfill
LOCATION: Wilmington, Delaware PROJECT NO.: MI0424 TASK NO.: 05
DESCRIPTION: Installation and readings of inclinometers and Leachate Observation Wells
Date: 07 March 2005 (Monday) Safety Tailgate topic: Hardhats and grouting safety

0700 – Traveled to Pigeon Point Landfill.
0900 Arrived on site at Pigeon Point Landfill. Discussed the installation of inclinometers and leachate observation wells with Shana Opdyke (GeoSyntec Consultants).
0915 – Left the site to procure supplies that were shipped to Cherry Island Landfill.
0930 – Returned to site to monitor the drilling for inclinometer IC-05-01:
Drilling Subcontractor: Summit
Drill Rig: Mobile B61
Drillers Mud: High Yield Bentonite (powder) from Drillers Service Inc. (DSI)
Drilling Apparatus: 6" diameter tri-cone roller bit.
1030 – The borehole for IC-05-01 was drilled to approximate depth of 54 feet. The borehole was cleaned out for approximately 25-30 minutes.
1125 – The IC-05-01 borehole collapsed at approximately 15 feet. Summit began redrilling the borehole.
1200 – Lunch
1230 – Returned to the site to monitor the installation of the IC-05-01 inclinometer casings. Upon completion of casing installation, the following grout mix was used around the casing:
1. 30 gallons of water from the hydrant on site
2. 2-94 lb bags of cement
    a. Type I/II
    b. Quickrete (Georgia)
3. 1-50 lb bag of bentonite
    a. Powered easy grout
    b. Packaged by DSI
    c. Manufactured by Wyoben (Wyoming)

1315 – Finished grouting of IC-05-01.
1330 Finished well installation. Discussed the installation of leachate observation wells with Shana Opdyke.
1430 – Left the site.

COPY TO: File PER: Byran York Hours 7.0

GeoSyntec Consultants

DAILY FIELD REPORT

PROJECT: Pigeon Point Landfill
LOCATION: Wilmington, Delaware PROJECT NO.: ME0434 TASK NO.: 05

DESCRIPTION: Installation and reading of inclinometers and Leachate Observation Wells

Date: 08 March 2005 (Tuesday) Safety Tailgate topic: Slips, trips, and falls due to inclement weather

0730 – Traveled to Pigeon Point Landfill.
0830 – Arrived on site to monitor the following construction activities:
1. Summit preparing equipment
2. Set up mobile rig B61 at the IC-05-02 location
3. Set up the mobile B57 ATV rig at the LOW-05-01 (leachate observation well) location
1100 – Summit stopped work due to inclement weather. Performed project paperwork and made phone calls to inform Shane of project progress.
1230 – Left the site.

COPY TO: File PER: Bryan York Hours 5.0

GeoSyntec Consultants

DAILY FIELD REPORT

PROJECT: Pigeon Point Landfill
LOCATION: Wilmington, Delaware PROJECT NO.: ME0434 TASK NO.: 05
DESCRIPTION: Installation and reading of inclinometers and Leachate Observation Wells
Date: 09 March 2005 (Wednesday) Safety Tailgate topic: Cold Stress precautions

0630 – Traveled to Pigeon Point Landfill
0730 – Arrived on site and prepared the H_2S gas meter to monitor air quality during today's drilling activities.
0745 – Summit began drilling leachate observation well LOW-05-01 using the mobile ATV rig B-57 with 8" diameter hollow stem augers (ID-4.25"). Water was encountered at approximately 7 feet below the ground surface and the drill cuttings (waste) continued to get wetter at greater depths.
0800 – Summit is having trouble starting the B-61 mobile rig set up on IC-05-02.
0930 – Traveled to Cherry Island to procure inclinometer casing supplies.
1000 – Returned to site to continue monitoring drilling activities. Summit began drilling the borehole for IC-05-02. At the LOW-05-01 location, the borehole was re-augered due to complications with the hollow stem auger plug. The LOW-05-01 borehole was augered to an approximate depth of 32 feet. The following items were then installed into the borehole:
1. 5 feet of 0-10 slotted pipe (2" PVC) with bottom cap at the bottom of the borehole.
2. 30 feet of solid 2" PVC pipe
3. 6 feet of No. 2 sand (Filpro Superior Quartz Filtration Media—U.S Silica Company, WV) at the bottom of the borehole, around and above the slotted pipe.
4. Bentonite (3/8" - Shur-plug, Drillers Service Inc.) from the sand to the ground surface.
1200 – IC-05-02 was drilled to approximately 59 feet below ground surface (sand was encountered at approximately 53 feet. Inclinometer casing was installed to approximately 58 feet below ground surface. The same grout mixture and materials were used to grout the inclinometer casing for IC-05-02.
1300 – Lunch
1330 – Returned to the site to monitor the drilling of the borehole for LOW-05-02 (leachate observation well). Water was encountered at approximately 30 feet and the waste continued to get wetter as depth increased. The LOW-05-02 borehole was drilled to approximately 38 feet. The same pipe, sand and bentonite used for LOW-05-01 were used to complete the well installation.
1530 – Summit installed the steel casing for IC-05-02 and placed concrete at the base. Summit will extend the IC-05-01 casing tomorrow and install the steel casing.
1600 – Summit completed work for the day and left the site. I obtained water levels and casing height above grade for LOW-05-01 and LOW-05-02:
1. LOW-05-01: Stick-up—34", Depth to water from top of casing- -16.64'
2. LOW-05-02: Stick-up—20", Depth to water form top of casing—30.38'
1630 – Left the site to pick up inclinometer casings from Cherry Island Landfill
1700 – Left Cherry Island to pick up supplies for inclinometer casing extension (cleaner and adhesive).
1830 Off the clock

COPY TO: File PER: Byron York Hours 11.5

GeoSyntec Consultants

DAILY FIELD REPORT

PROJECT: Pigeon Point Landfill
LOCATION: Wilmington, Delaware PROJECT NO.: ME0414 TASK NO.: 05
DESCRIPTION: Installation and reading of Inclinometers and Leachate Observation Wells
Date: 10 March 2005 (Thursday) Safety Tailgate topic: PPE for drilling activities

0830 – Traveled to Pigeon Point Landfill.
0930 – Arrived on site and labeled IC-05-02 and took water level readings on the leachate observation wells.
1000 Summit arrived on site to develop the leachate observation wells and install the steel casing for IC-05-01. The following water level readings were taken (depth from top of casing):
1. LOW-05-02—30.11'
2. LOW-05-01—16.09'
1030 – I extended the casing for inclinometer IC-05-01 and returned to monitoring the development of LOW-05-02.
1115 – Summit stopped development of LOW-05-02. Approximately 5 gallons of leachate was pumped out of LOW-05-02.
1130 – Took water level reading on LOW-05-02—34.47'. Summit began developing LOW-05-01.
1200 Finished development of LOW-05-01. Approximately 15 gallons of leachate was pumped out of LOW-05-01. Summit installed the steel casing for IC-05-01.
1245 – Took water level reading on LOW-05-01— 17.61'
1300 – Lunch
1330 Returned to the site to take inclinometer reading on IC-05-01. Two readings were taken to ensure the baseline was accurate.
1630 – Took water level readings of the leachate observation wells:
1. LOW-05-02—34.01'
2. LOW-05-01—16.62'
1700 – Left the site.

COPY TO: File PER: Bryan York Hours: 8.0

GeoSyntec Consultants

DAILY FIELD REPORT

PROJECT: Pigeon Point Landfill
LOCATION: Wilmington, Delaware PROJECT NO.: MF0414 TASK NO.: 05
DESCRIPTION: Installation and reading of inclinometers and Leachate Observation Wells
Date: 11 March 2005 (Friday) Safety Tailgate topic: Ear protection (ear plugs)

0800 Traveled to Pigeon Point Landfill
0900 – Arrived on site and obtained water levels for the leachate observation wells:
1. LOW-05-01 16.19'
2. LOW-05-02– 33.17'
0930 – Took inclinometer readings on IC-05-02. Two consecutive readings were taken to ensure that the baseline was accurate. Due to the close proximity to the Delaware Memorial Bridge, the inclinometer readings took a while to stabilize. The readings would only stabilize during a lull in the traffic.
1130 – Took the following measurements on the inclinometers:
1. IC-05-01: casing height above ground surface—36.5"
2. IC-05-02: casing height above ground surface—37.5"
1200 – Left the site.

COPY TO: File PER: Bryan York Hours 4.0

Attachment 5

Photo Log

GeoSyntec Consultants
Photographic Record

Client:	**DSWA**	**Project Number:**	**ME0414**
Site Name:	**Pigeon Point Landfill**	**Site Location:**	**Wilmington, Delaware**

Photograph 1

7 March 2005

CPT rig set up to test CPT-05-006.

Photograph 2

7 March 2005

Preparing to install inclinometer IC-05-001 using a Mobile B-61 drill rig.

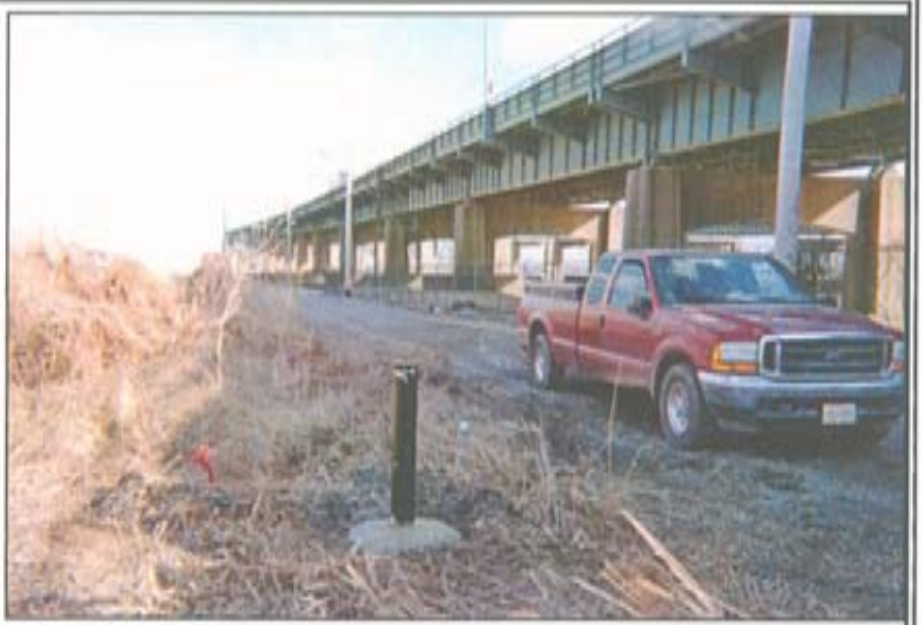
GeoSyntec Consultants Photographic Record			
Client:	**DSWA**	**Project Number:**	**ME0414**
Site Name:	**Pigeon Point Landfill**	**Site Location:**	**Wilmington, Delaware**

Photograph 3 7 March 2005 Cleaning out borehole during installation of inclinometer IC-05-001.	
Photograph 4 7 March 2005 Inclinometer IC-05-001 installed. Diameter is 3.34 inches. Casing is Red ABS, provided by Geonor, in five foot sections. Joints at each section were wrapped using duct tape.	

GeoSyntec Consultants Photographic Record			
Client:	**DSWA**	**Project Number:**	**ME0414**
Site Name:	**Pigeon Point Landfill**	**Site Location:**	**Wilmington, Delaware**

Photograph 5 7 March 2005 Preparing grout for inclinometer IC-05-001. Grout mix was approximately two 94 lb bags of Portland Type I/II Cement with one 50 lb bag of powdered bentonite and 30 gallons of water.	
Photograph 6 7 March 2005 Grouting inclinometer IC-05-001 using the tremie method with bentonite cement grout.	

GeoSyntec Consultants Photographic Record			
Client:	**DSWA**	**Project Number:**	**ME0414**
Site Name:	**Pigeon Point Landfill**	**Site Location:**	**Wilmington, Delaware**

Photograph 7 9 March 2005 Inclinometer with protective well casing installed.	
Photograph 8 7 March 2005 Drilling for leachate observation well with ATV.	

GeoSyntec Consultants Photographic Record			
Client:	**DSWA**	**Project Number:**	**ME0414**
Site Name:	**Pigeon Point Landfill**	**Site Location:**	**Wilmington, Delaware**

Photograph 9 9 March 2005 Placing 2 in. diameter PVC casing for leachate observation well.	
Photograph 10 9 March 2005 Placing sand filter around PVC casing for leachate observation well	

GeoSyntec Consultants Photographic Record			
Client:	**DSWA**	**Project Number:**	**ME0414**
Site Name:	**Pigeon Point Landfill**	**Site Location:**	**Wilmington, Delaware**

Photograph 11 9 March 2005 Pumping Water through Leachate Observation Well to Develop it.	
Photograph 12 9 March 2005 Installed leachate observation well.	

Attachment 6

Re-evaluation of Slope Stability of Existing and Proposed Final Grades

GEOSYNTEC CONSULTANTS

COMPUTATION COVER SHEET

Client: DSWA **Project:** Pigeon Point Landfill **Project/Proposal #:** ME0414 **Task #:** 6

TITLE OF COMPUTATIONS Re-evaluation of Slope Stability of Existing and Proposed Final Grades

COMPUTATIONS BY:
Signature
Printed Name and Title: Joo Chai Wong, Senior Staff Engineer
DATE: 03/23/05

ASSUMPTIONS AND PROCEDURES CHECKED BY:
(Peer Reviewer)
Signature
Printed Name and Title: David Espinoza, Associate
DATE: 3/23/05

COMPUTATIONS CHECKED BY:
Signature
Printed Name and Title: Shana Opdyke, Senior Staff Engineer
DATE: 3/23/05

COMPUTATIONS BACKCHECKED BY.
(Originator)
Signature
Printed Name and Title: Joo Chai Wong, Senior Staff Engineer
DATE: 03/23/05

APPROVED BY:
(PM or Designate)
Signature
Printed Name and Title: Carlos Lazarte, Senior Project Engineer
DATE: 03/23/05

APPROVAL NOTES:

REVISIONS (Number and initial all revisions)

NO.	SHEET	DATE	BY	CHECKED BY	APPROVAL

Written by: J.C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

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Figure 4B: Final Grade Conditions of Cross-section A-A
Figure 5A: Existing Conditions of Cross-section B-B
Figure 5B: Final Grade Conditions of Cross-section B-B
Figure 6: Profiles of Undrained Shear Strength

APPENDICES

Appendix A: Section A-A, Existing Grade, Undrained, Circular Analysis
Appendix B: Section A-A, Existing Grade, Undrained, Non-Circular Analysis
Appendix C: Section A-A, Final Grade, Undrained, Circular Analysis
Appendix D: Section A-A, Final Grade, Undrained, Non-Circular Analysis
Appendix E: Section B-B, Existing Grade, Undrained, Circular Analysis
Appendix F: Section B-B, Existing Grade, Undrained, Non-Circular Analysis
Appendix G: Section B-B, Final Grade, Undrained, Circular Analysis
Appendix H: Section B-B, Final Grade, Undrained, Non-Circular Analysis
Appendix I: Section A-A, Final Grade, Drained, Circular Analysis
Appendix J: Section A-A, Final Grade, Drained, Non-Circular Analysis
Appendix K: Section B-B, Final Grade, Drained, Circular Analysis
Appendix L: Section B-B, Final Grade, Drained, Non-Circular Analysis

Written by: J.C. Wong Date: 03/17/05 Reviewed by: D. Espinoza Date: 05/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

RE-EVALUATION OF SLOPE STABILITY OF EXISTING AND PROPOSED FINAL GRADES

1. INTRODUCTION

The purpose of this analysis is to re-evaluate the overall slope stability of the existing and proposed final grades for the Pigeon Point Landfill (PPL). In a previous analysis [GeoSyntec, 2005], the slope stability of the PLL was evaluated at two cross-sections (i.e., A-A and B-B). Because no site-specific information was available for the alluvium beneath the landfill slope and beneath the interior of the landfill, the undrained shear strength of the alluvium at these locations was conservatively assumed based on limited field data in the vicinity of the selected cross-sections. Based on 2004 CPT data measured at the landfill perimeter, a relatively low undrained shear strength was assumed for the alluvium extending beneath the landfill slope and beneath the interior of the landfill. As a result of the assumption of a low-strength alluvium under the slope and footprint of the landfill, the most critical factors of safety for undrained conditions for sections A-A and B-B were calculated at 1.08 and 1.04, respectively, during the 2004 stability analyses. Because the calculated factors of safety were lower than recommended minimum values, a more comprehensive field investigation program was recommended to gather site-specific information in the vicinity of the cross sections analyzed. In this calculation package, the slope stability for sections A-A and B-B is re-evaluated considering additional field data conducted in March 2005 and a re-assessment of the undrained shear strength of the alluvium under the landfill footprint.

2. BACKGROUND

The Pigeon Point Landfill (PPL), located in New Castle County, outside Wilmington, Delaware, was originally owned and operated by the County. When the Delaware Solid Waste Authority (DSWA) was created, PPL was transferred to DSWA. Built over a naturally occurring soil liner, the PPL initially accepted a variety of waste, including municipal solid waste (MSW) from approximately 1971 to 1985. After closure of the PPL, the landfill was capped. More recently, stabilized sludge has been placed over the cap to increase the cap's thickness. The PPL leachate collection system consists of a system of pipes and manholes installed in the 1980's along the perimeter of the landfill to collect leachate. A continuous layer of a high-permeability material underlying the waste is not present.

The PPL was constructed over soft alluvial sediments. The alluvial sediments are geologically recent (e.g., deposited approximately during the last 8,000 years). Although the

material of this alluvial deposit is somewhat similar to the recent deposits encountered at the DSWA's Cherry Island Landfill (CIL), which is located to the north of the PPL site, it appears to be stiffer. Geotechnical reports prepared by Schnabel Engineering Associates (SEA) indicate that the alluvium under PPL consists of elastic silt and contains some organics. Occasionally, the alluvium contains lenses of peat and fine sand. Along the PPL perimeter, the alluvium is covered by fill that ranges from clay, elastic silt, and gravel, and has a thickness varying between 30 ft to about 5 ft. Under the waste, the alluvium thickness varies from approximately 20 and 40 ft.

As mentioned above, the soft alluvium under PPL has relatively low undrained shear strengths. The ongoing placement of cover soil at the PPL generates excess pore pressure. As the alluvium typically exhibits a low hydraulic conductivity, it takes a long time for the excess pore pressures to dissipate. Under these undrained conditions, the stability of the system is most critical, and is directly affected by the low undrained shear strength of the alluvium. DSWA requested SEA to perform a field investigation and slope stability analysis of the PPL in 1998 and 1999.

The SEA analyses were based on the then-existing undrained shear strength. The proposed filling plan apparently had no restriction on the rate of waste placement. Currently, it is not known how the rate of fill placement affects the overall stability of the landfill. Visual inspection at the PPL shows no evidence of instability (e.g., cracks in the slope crest, bulging at the toe of the slope). However, because geotechnical instruments (e.g., inclinometers or piezometers) are not installed at the PPL, subsurface displacements that could be used to evaluate potential stability problems cannot be monitored.

In addition, in the last two and half years, DSWA has noticed a trend of increased groundwater elevation in one cluster of groundwater-monitoring wells. There are over twenty groundwater-monitoring wells at the site. These wells have been in operation since approximately 1981. It is plausible but not known whether the rate of fill placement has a direct effect on the measured increase in groundwater elevation.

3. GEOSYNTEC CPT INVESTIGATION

A field investigation using CPT was initially performed on in November 2004 by ConeTec of West Berlin, New Jersey under GeoSyntec's supervision. CPT testing was performed at ten locations, which are shown as points CPT-04-001 through CPT-04-010 on Figure 1. Eight CPTs are located at the perimeter of the landfill outside the waste footprint. Therefore, the undrained shear strength of the alluvium beneath the waste footprint was estimated in only two locations

with the 2004 CPT data. Consequently, nine additional CPTs also performed by ConeTec were performed in March 2005 within the waste footprint to allow for a better estimation of the shear strength of the alluvium for stability analysis. These nine CPTs are designated as CPT-05-001 through CPT-05-009 and their locations are shown on Figure 1. As shown on Figure 1, the CPTs are located close to sections A-A and B-B, selected previously [GeoSyntec, 2005] as the critical cross sections for slope stability analysis.

As part of the 2005 CPT field investigation program, several CPT dissipation tests and CPT resistivity tests were performed as an effort to evaluate the location of the liquid levels inside the landfill and identify potential perched liquid levels. Also, two leachate observation wells (i.e., LOW-05-01 and LOW-05-02, see Figure 1) were installed to directly measure the leachate observation.

4. OTHER FIELD INVESTIGATIONS

SEA's [1999] geotechnical investigation also included a series of in-situ and laboratory geotechnical tests. That field investigation included nine CPTs, two Dilatometer Tests (DMTs), two Field Vane Shear Tests (FVSTs), and three boring Standard Penetration Tests (SPT). The laboratory tests consisted of : i) natural moisture content; ii) natural density; iii) grain size analysis; iv) Atterberg Limits; v) consolidation, vi) unconfined compression tests; and vii) consolidated undrained triaxial shear strength tests.

5. GEOMETRY AND SECTIONS SELECTED FOR ANALYSIS

Two cross-sections (i.e., A-A and B-B, see Figure 1) were selected for analysis of the overall stability of the PPL. The cross-sections are located close to the cross-sections selected for the previous slope stability analysis [GeoSyntec, 2005]. At each cross-section, the surface elevation was obtained for: (i) the existing grades to evaluate the current slope stability at the PPL; and (ii) the proposed final grades to evaluate the slope stability at the PPL when final grades are reached.

5.1 Existing Grades

In this analysis, the existing grades are based on survey information dated 1996 and 2004 provided by DSWA (see Figure 1). The 1996 survey data was used to characterize the PPL sideslopes, whereas the 2004 survey data was used to represent the top of the landfill (i.e., above elevation 50 ft-msl).

5.2 Proposed Final Grades

The final grades used in this calculation were obtained from SEA [1999], descriptions based on a 29 December 2004 phone conversation with Ms. Anne Germain of DSWA and a 5 January 2005 phone conversation with Ms. Robin Roddy of DSWA. At cross-section A-A, the final grade extends from the slope crest at elevation 60 ft-msl of the existing grade to 90 ft-msl with a slope of five percent. At cross-section B-B, the final grade extends from the slope crest at elevation 50 ft-msl of the existing grades, to elevation 60 ft-msl with a slope of 4H:1V (horizontal to vertical), and subsequently extends up to elevation 90 ft-msl with a 5-percent slope.

5.3 Stratigraphy

The generalized stratigraphy for cross-sections A-A and B-B was developed from the CPT profiles and complemented with previous field data [GeoSyntec, 2005; SEA, 1999]. In general, the stratigraphy consists of, from top to bottom, stabilized sludge/waste, alluvium, and a mix of sandy clay to clayey sand. The generalized stratigraphy for cross-sections A-A and B-B are shown in Figures 2A and 2B, respectively.

5.4 Liquid Level

The liquid levels for the existing conditions at cross-sections A-A (see Figure 3A) and B-B (see Figure 3B) were estimated based on the results of CPT dissipation tests, resistivity tests, and liquid levels observed in two leachate observation wells (i.e., LOW-05-01 and LOW-05-02, see Figure 1). CPT dissipation tests at several depths were performed to evaluate if measured pore pressures increase with depth, thus indicating the presence of a continuous rather than a perched column of liquid within waste. At locations where dissipation tests were performed at various depths, the location of the liquid level was estimated by extrapolating linearly the measured pore pressures. Where the extrapolated line of estimated pore pressures achieved a zero value, this level was interpreted as the location of the liquid level. The gradient of the line of pore pressure with depth was used to estimate the liquid level at locations where only one dissipation test was performed.

The results of resistivity were also used to investigate the presence of perched or continuous layers of liquids within the waste. In a resistivity test, a relatively high resistivity indicates air, saturated media, or nearly saturated media. Conversely, zero resistivity indicates free liquid. The depth to the liquid level was measured directly in the newly installed LOWs. The observed liquid level on 11 March 2005 (i.e., 2 days after installation of the LOWs) in

LOW-05-01 and LOW-05-02 is 38.9 and 30.0 ft-msl, respectively. A summary of the observations from all types of tests are shown in Figures 3A and 3B. These figures indicate that the observations from each type of test are consistent.

For the existing conditions, the liquid levels used in the analysis were assumed to at the highest interpreted elevation regardless of the type of test used. For the final grade conditions, the liquid levels were conservatively estimated to be 10 ft below the proposed final grades (i.e., approximately 80 ft-msl).

5.5 Idealized Stratigraphy for Analysis

The stratigraphy (Figure 2A and 2B), liquid level location (Figures 3A and 3B), and the existing and final grade elevations were used to develop the idealized stratigraphy along cross-sections A-A (Figures 4A and 4B, respectively) and B-B (Figures 5A and 5B, respectively).

6. STABILITY CRITERIA

The slope stability analysis was performed to evaluate that undrained and drained loading conditions of the PPL have adequate factors of safety (FS) against failure under static loading conditions. Seismic conditions were not considered. The minimum recommended factor of safety against slope stability failure for undrained (i.e., temporary) and drained (i.e., long-term) conditions are 1.25 and 1.5, respectively. Undrained analysis models the slope stability conditions due to relative rapid loading during waste placement. Drained analysis models the slope stability conditions long after waste placement has been finished.

7. MATERIAL PARAMETERS

7.1 Stabilized Sludge and Waste

Based on previous experience at the Cherry Island Landfill [GeoSyntec, 2004], the waste is assumed to have an average density of 75 pounds per cubic feet (pcf). The stabilized sludge is assumed to have an average density of 70 pcf. The stabilized sludge is considered as a free-draining material with an angle of internal friction assumed to be 30 degrees. The waste is considered free-draining, with a drained strength characterized by an internal friction angle, $\phi'=33°$ and no cohesion for both moist/dry and wet conditions. As these materials are assumed to be free-draining, their strength properties are considered to be the same for drained and undrained conditions.

7.2 Alluvium

The total dry and saturated unit weights for the alluvium are assumed to be 85 pcf and 97 pcf, respectively, based on GeoSyntec's experience at the CIL [GeoSyntec, 2004]. The strength of the alluvium varies under drained and undrained loading conditions.

The undrained shear strength of the alluvium was estimated from the CPT results. The undrained shear strength, S_u was calculated as:

$$S_u = \frac{q_t - \sigma_{vo}}{N_k}$$

where q_t is the corrected cone tip resistance, σ_{vo} is the total overburden pressure, and N_k is the cone factor, which was considered equal to 15, consistent with previous analysis [GeoSyntec, 2005]. The results of the undrained shear strength using the CPT data are presented in Figure 6.

For undrained conditions, the idealized undrained shear strength profile for the alluvium vary from 400 to 5,000 psf (e.g., Figures 4A and 5A). These values are higher (i.e., stiffer) than those measured for the alluvium under the waste footprint of Cherry Island Landfill which denotes a stiffer material. As shown in Figures 4A and 5A, the alluvium stratum along cross-sections A-A and B-B was divided into six and four horizontal layers, respectively, to model more accurately the variation of the undrained shear strength along the horizontal direction, as obtained from the CPT data. For long-term conditions, the alluvium is assumed drained. The drained shear strength of alluvium is modeled with an envelope of shear strength based on effective strength parameters as presented Table 1, which was derived from GeoSyntec [2004].

Table 1-Drained Shear Strength Envelope

Effective Normal Stress, σ_n' (psf)	Shear Strength envelope variation (psf)
0 – 1,000	0 – 1,000
1,000 – 3,000	1,000 – 2,678
> 3,000	σ_n' tan 34

where σ'_n is the effective normal pressure acting at the base of a soil/waste column.

7.3 Sand

The sand deposit is assumed to have an effective friction angle of 40 degrees and no cohesion. The moist and saturated unit weight for this deposit is assumed to be 120 and 130 pcf, respectively. These properties are considered to be the same for both undrained and undrained conditions because this deposit is considered to be a free-draining material.

7.4 Summary of Shear Strength Properties

Material properties used in the slope stability analysis for Cross-sections A-A and B-B are summarized in Table 2:

Table 2-Summary of Material Properties

Material	Label in SLIDE [1]	Cross-section	Total Unit Weight (pcf)	Saturated Unit Weight (pcf)	Undrained Conditions (rapid loading)		Drained Conditions	
					c, S_u [2] (psf)	ϕ' [2] (deg)	c' [2] (psf)	ϕ' [2] (deg)
Stabilized Sludge	Sludge	A-A/B-B	70	100	0	30	0	30
Waste	Waste	A-A/B-B	75			33		33
Alluvium	Alluvium 1	A-A	85	97	5,000 [11]	0	See strength envelope in Table 1	
	Alluvium 2				1,400 [4]			
	Alluvium 3				1,700 [5]			
	Alluvium 4				1,500 [6]			
	Alluvium 5				800 [7]			
	Alluvium 6				400 [8]			
	Alluvium 1	B-B			1,900 [9]			
	Alluvium 2				1,400 [10]			
	Alluvium 3				1,300 [11]			
	Alluvium 4				400 [12]			
Sand	Sand	A-A/B-B	120	130	0	40	40	

Notes: (1) See Figures 2A through 2B

(2) c_u is cohesion, S_u is the undrained shear strength, and ϕ' is the effective angle of internal friction

(3) Interpreted based on CPT-05-028 (see Figures 2A and 6)

(4) Interpreted based on CPT-05-029 (see Figures 2A and 6)

(5) Interpreted based on CPT-05-026 (see Figures 2A and 6)

(6) Interpreted based on CPT-05-024 (see Figures 2A and 6)

(7) Interpreted based on CPT-05-030 (see Figures 2A and 6)

(8) Interpreted based on CPT-05-027 (see Figures 2A and 6)

(9) Interpreted based on CPT-05-006 (see Figures 2B and 6)

(10) Interpreted based on CPT-05-002 (see Figures 2B and 6)

(11) Interpreted based on CPT-05-021 (see Figures 2B and 6)

(12) Interpreted based on CPT-04-006 (see Figure 2B and 6)

8. METHOD OF ANALYSIS

The stability of the selected cross sections was evaluated based on limit equilibrium theory using the method of slices. The computer program SLIDE [Rocscience, 2002] was used to

perform the analyses. SLIDE is a two-dimensional slope stability program for evaluating the factor of safety of circular and non-circular (also referred to as block) failure (or slip) surfaces in soils. The procedure consisted of analyzing numerous potential failure surfaces for each cross section to find the critical failure surface that renders the minimum factor of safety for the slope. Circular and non-circular failure surfaces were analyzed using the same material parameters. For both circular and non-circular failure surfaces, the Spencer method [Spencer, 1967] was used. In the Spencer method, both force and moment equilibrium are satisfied in each slice and the slope of the inter slice forces is assumed constant and parallel to each other.

Hundreds of potential failure surfaces were analyzed to find the critical failure surface that results in the minimum factor of safety for the slope. The program was set to search for the most critical surfaces within the entire cross section to ensure that the most critical surface was captured. This iterative process ensured that a global, not a local minimum, factor of safety was calculated.

Fifty slices were considered within each sliding block. For the circular search, a search grid with 20 horizontal increments and 20 vertical increments was used to find the minimum factor of safety. SLIDE provides both the minimum factor of safety and contours of the calculated factors of safety. For the non-circular failure analysis, two "search" windows were used for each section. Within each of these "search" windows, the program automatically and sequentially modified the location of the points of the slip surface until a minimum safety factor was calculated. The location of the "search" windows was changed iteratively until the minimum factor of safety was obtained.

9. RESULTS AND DISCUSSION

9.1 Undrained Conditions

Because of the low permeability of the alluvium, the critical condition for slope stability analysis is under undrained conditions. Therefore, the stability for cross-sections A-A and B-B is calculated assuming that loading (i.e., waste placement) takes place rapidly enough that pore pressures generated as a result of loading do not dissipate. Therefore, no strength gain is obtained as a result of loading and consolidation. This assumption is conservative, in particular when analyzing the stability of the final grades, as pore pressure will dissipate during waste placement.

Table 3 below presents a summary of the results of the stability analyses performed for undrained conditions:

Table 3-Minimum Calculated Factor of Safety for Undrained Conditions

Section	Condition	Type of Failure	Factor of Safety	Location of Results of Current Analysis
A-A	Existing Grades	Circular	2.57	Appendix A
		Non-Circular	2.65	Appendix B
	Final Grades	Circular	2.57	Appendix C
		Non-Circular	2.64	Appendix D
B-B	Existing Grades	Circular	2.51	Appendix E
		Non-Circular	2.61	Appendix F
	Final Grades	Circular	2.52	Appendix G
		Non-Circular	2.43	Appendix H

The results shown in Table 3 indicate that the minimum calculated factors of safety for sections A-A and B-B for both existing and final grade configurations under undrained conditions are greater than the recommended minimum value of 1.25. In addition, these factors of safety are larger than those calculated in the previous analysis [GeoSyntec, 2005]. The factor of safety are higher because the undrained shear strength values under the waste are higher as estimated using the 2005 field investigation data. Because of the limited information of undrained shear strength data under the waste, conservative values for this parameter were used in previous analysis [GeoSyntec, 2005].

9.2 Drained Conditions

Drained conditions refers to the condition long after placement of the last waste lift (i.e., all excess pore pressures have dissipated). Table 4 presents a summary of the results of the stability analyses performed for drained conditions:

Table 4-Minimum Calculated Factor of Safety for Drained Conditions

Section	Condition	Type of Failure	Factor of Safety	Location of Results of Current Analysis
A-A	Final Grades	Circular	2.57	Appendix I
		Non-Circular	2.66	Appendix J
B-B	Final Grades	Circular	2.33	Appendix K
		Non-Circular	2.43	Appendix L

The calculated minimum factors of safety for both circular and non-circular failure surfaces are greater than the recommended minimum value of 1.5 in both Section A-A and B-B for drained conditions.

10. CONCLUSIONS

The slope stability re-evaluation shows that the minimum calculated factors of safety at the PPL are larger than the minimum recommended value of 1.25 for undrained conditions and 1.50 for drained conditions. The 2005 CPT results show that the undrained shear strength of the alluvium underneath the waste footprint is significantly larger than the assumed values used in the previous analysis [GeoSyntec, 2005].

The liquid levels inside the waste footprint range from 50 ft-msl to 55 ft-msl. The higher levels were associated with the top landfill elevation whereas lower liquid levels were found closer to the landfill toe.

11. REFERENCES

GeoSyntec Consultants (2004). "Geotechnical Characterization Report," prepared for Delaware Solid Waste Authority Cherry Island Landfill Expansion Project, September.

GeoSyntec Consultants (2005). "Slope Stability Evaluation, Pigeon Point Landfill, Wilmington, Delaware," prepared for Delaware Solid Waste Authority, January.

Rocscience, (2002) "Slide (Version 4.0 and 5.0): A 2D Slope Stability Analysis for Soil and Rock Slopes." Rocscience, Toronto, Canada.

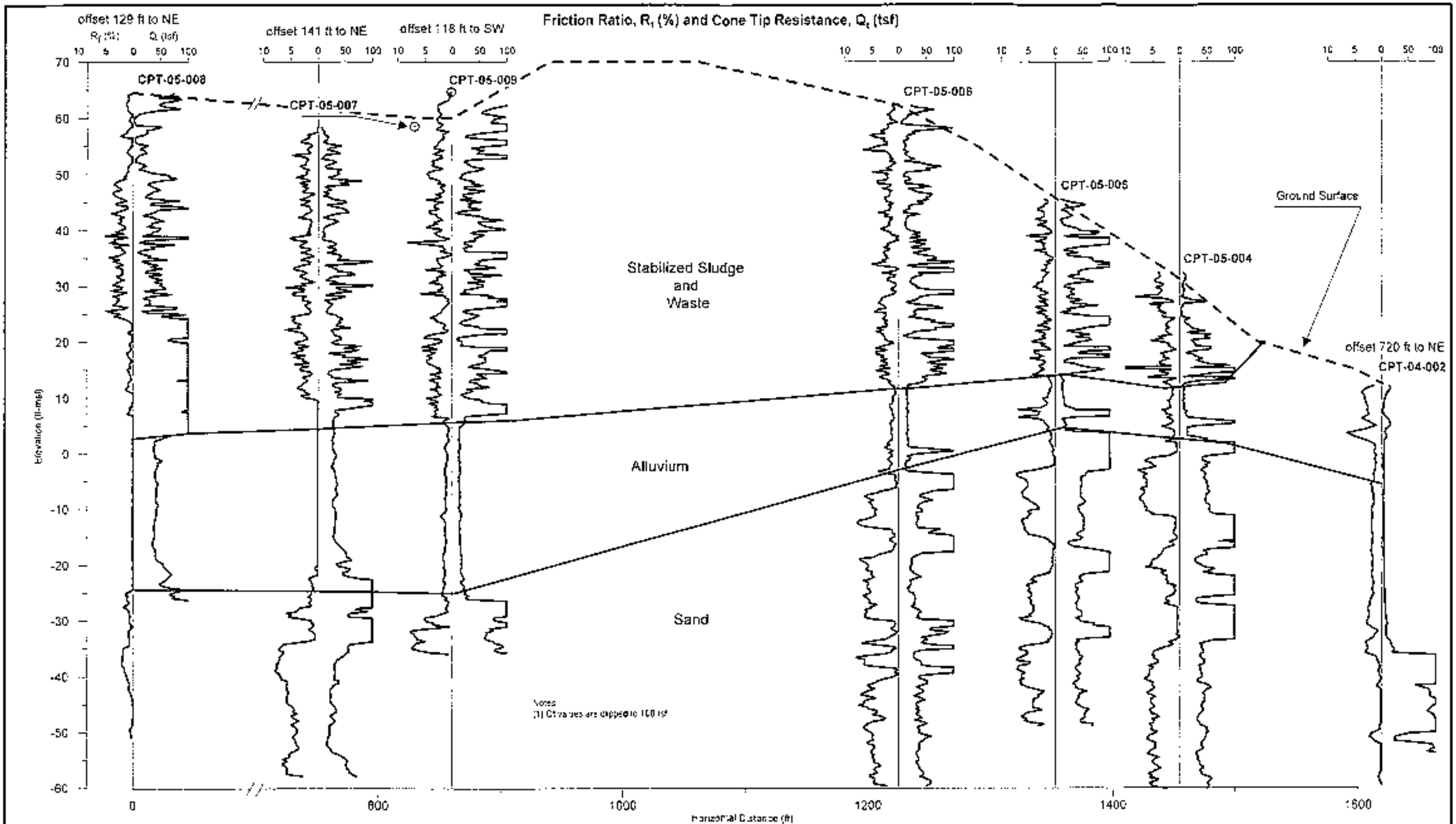
Schnabel Engineering Associates (1999). "Geotechnical Study, Northern Solid Waste Management Center-1, Pigeon Point Disposal Area, Wilmington, Delaware". Submitted to the Delaware Solid Waste Authority, 10 December.

Spencer (1967). "A method of analysis of the stability of embankments assuming parallel inter-slice forces." Geotechnique, London, England, 17(1), 11-26.

Written by: J.C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

FIGURES



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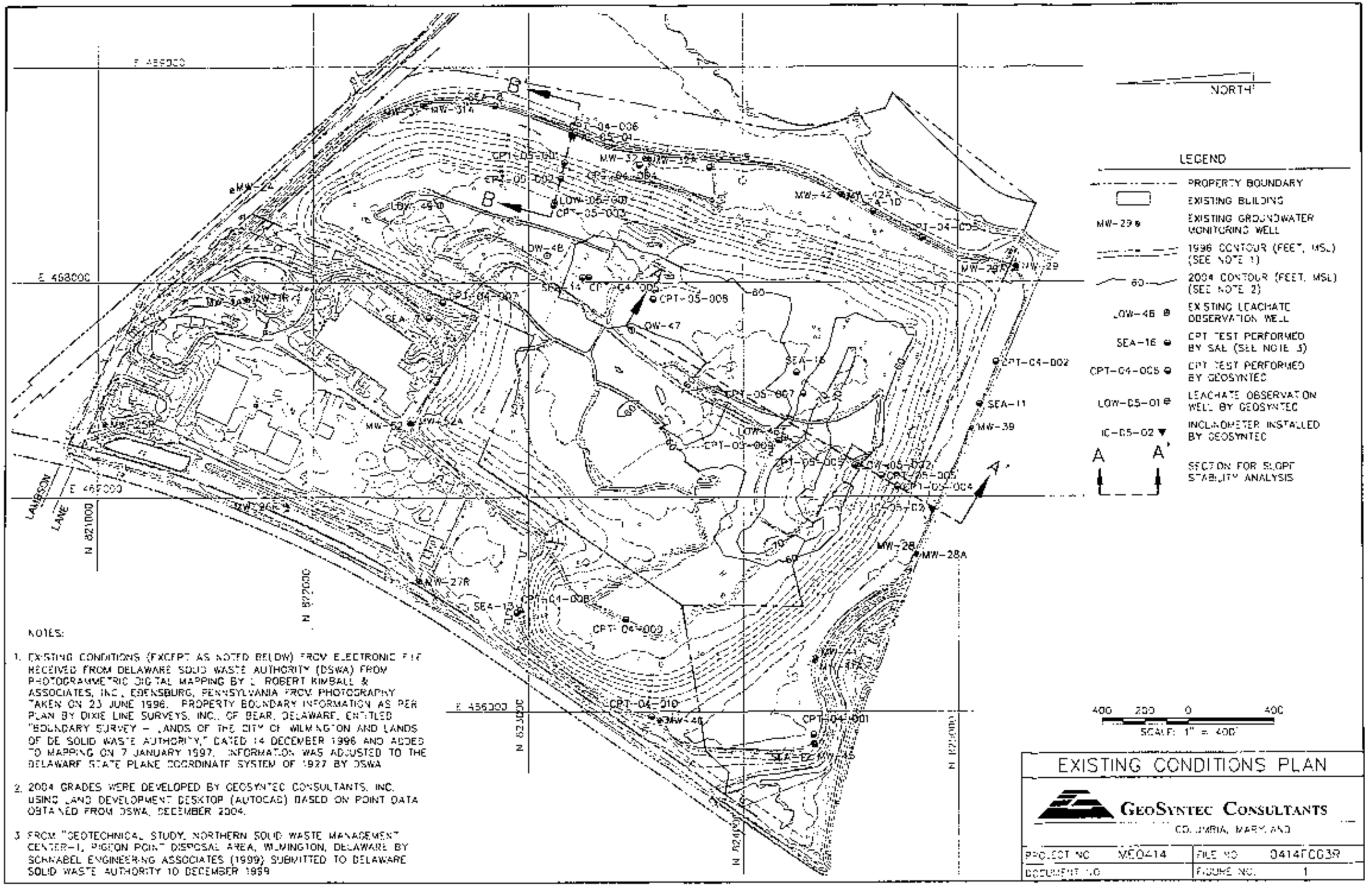
SECTION A-A
CPT Profiles

FIGURE 2A

PROJECT: ME0414 PIGEON POINT



NOTES:

1. EXISTING CONDITIONS (EXCEPT AS NOTED BELOW) FROM ELECTRONIC FILE RECEIVED FROM DELAWARE SOLID WASTE AUTHORITY (DSWA) FROM PHOTOGRAMMETRIC DIGITAL MAPPING BY L. ROBERT KIMBALL & ASSOCIATES, INC., EBENSBURG, PENNSYLVANIA FROM PHOTOGRAPHY TAKEN ON 23 JUNE 1996. PROPERTY BOUNDARY INFORMATION AS PER PLAN BY DIXIE LINE SURVEYS, INC., OF BEAR, DELAWARE, ENTITLED "BOUNDARY SURVEY – LANDS OF THE CITY OF WILMINGTON AND LANDS OF DE SOLID WASTE AUTHORITY," DATED 14 DECEMBER 1998 AND ADDED TO MAPPING ON 7 JANUARY 1997. INFORMATION WAS ADJUSTED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM OF 1927 BY DSWA.
2. 2004 GRADES WERE DEVELOPED BY GEOSYNTEC CONSULTANTS, INC. USING LAND DEVELOPMENT DESKTOP (AUTOCAD) BASED ON POINT DATA OBTAINED FROM DSWA, DECEMBER 2004.
3. FROM "GEOTECHNICAL STUDY, NORTHERN SOLID WASTE MANAGEMENT CENTER-I, PIGEON POINT DISPOSAL AREA, WILMINGTON, DELAWARE BY SCHNABEL ENGINEERING ASSOCIATES (1999) SUBMITTED TO DELAWARE SOLID WASTE AUTHORITY 10 DECEMBER 1999.

EXISTING CONDITIONS PLAN

GeoSyntec Consultants
COLUMBIA, MARYLAND

PROJECT NO.	WC0414	FILE NO.	0414C03R
DOCUMENT NO.		FIGURE NO.	1

Liquid Level Profile (ft) and Resistivity (ohm-m)

offset 129 ft to NE
offset 141 ft to NE
offset 118 ft to NE
offset 720 ft to NE

Pore Pressure (ft)
Resistivity (ohm-m)
30 15 0 500 1000

CPT-05-008
CPT-05-007
CPT-05-009
CPT-05-006
CPT-05-005
CPT-05-004
CPT-04-002

Ground Surface

Elevation (ft-msl)
70 60 50 40 30 20 10 0 -10 -20 -30 -40 -50 -60

Horizontal Distance (ft)
0 800 1000 1200 1400 1600

Legend:

- Pore pressure (ft) obtained from CPT dissipation tests
- Liquid level observed in Leachate Observation Well LOW-05-002

Notes
(1) Resistivity values are clipped at 1500 ohm-m

Note
No pore pressure dissipation and resistivity data available for CPT-04-002

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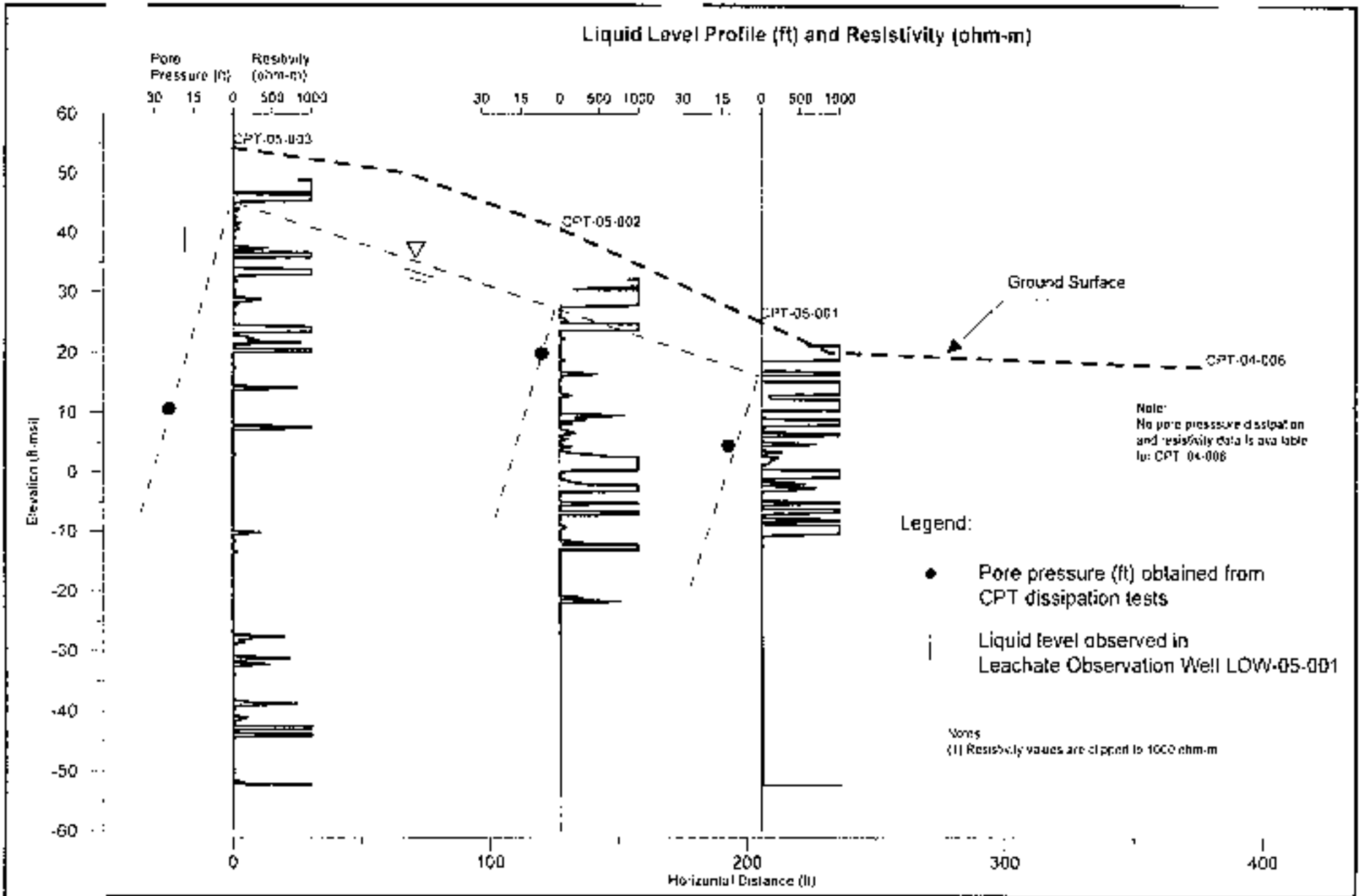
SECTION A-A
Liquid Level Profiles

FIGURE 3A

PROJECT: ME0414 PIGEON POINT

AA Rev 2.1



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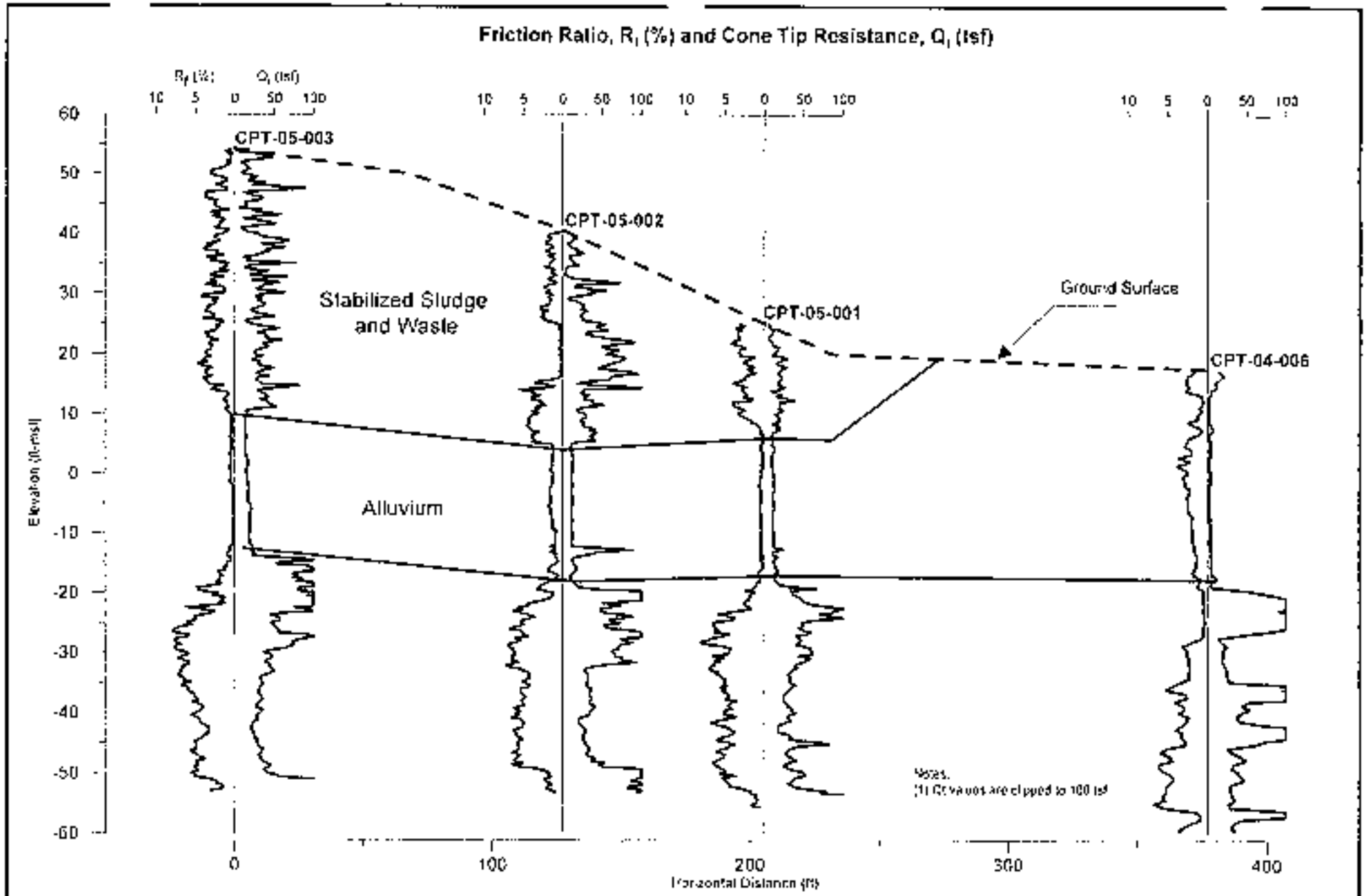
SECTION B-B
Liquid Level Profiles

FIGURE 3B

PROJECT: ME0414 PIGEON POINT



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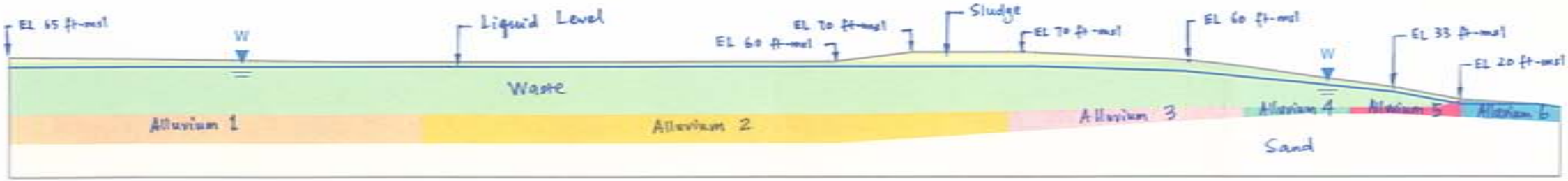
SECTION B-B
CPT Profiles

FIGURE 2B

PROJECT: MR0414 PIGEON POINT

PIGEON POINT LANDFILL

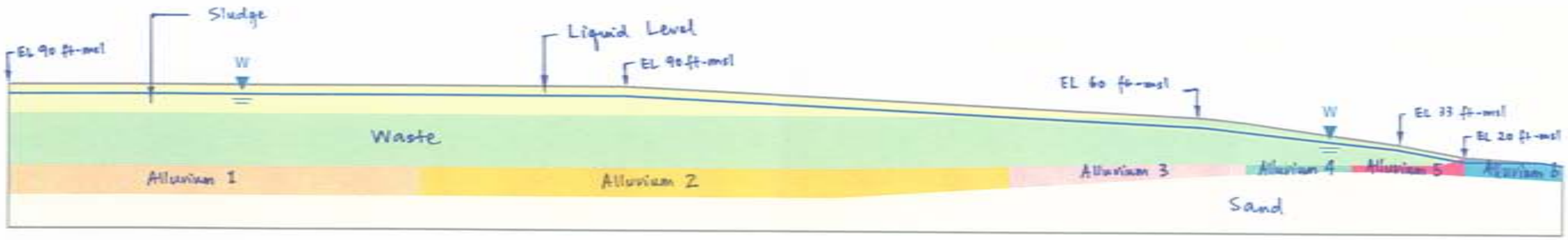
Figure 4A Existing Conditions of Cross-Section A-A



Stratum	Shear Strength Parameters
Stabilized Sludge	Cohesion = 0, Friction Angle = 30 deg.
Waste	Cohesion = 0, Friction Angle = 33 deg.
Alluvium 1	Undrained Shear Strength = 5,000 psf
Alluvium 2	Undrained Shear Strength = 1,400 psf
Alluvium 3	Undrained Shear Strength = 1,700 psf
Alluvium 4	Undrained Shear Strength = 1,500 psf
Alluvium 5	Undrained Shear Strength = 800 psf
Alluvium 6	Undrained Shear Strength = 400 psf
Sand	Cohesion = 0, Friction Angle = 40 deg.

PIGEON POINT LANDFILL

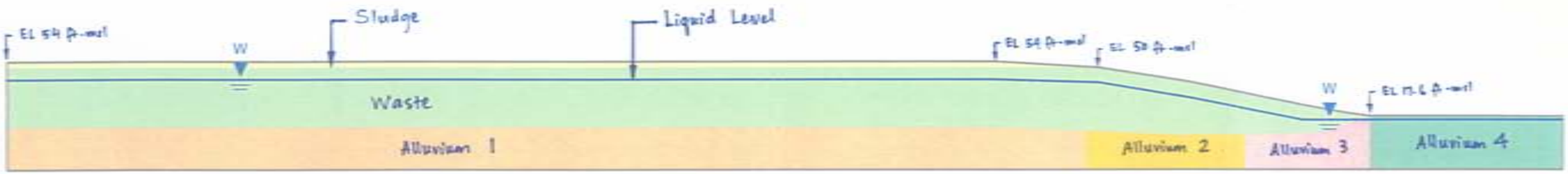
Figure 4B Final Grade Conditions of Cross-Section A-A



Stratum	Shear Strength Parameters
Stabilized Sludge	Cohesion = 0, Friction Angle = 30 deg.
Waste	Cohesion = 0, Friction Angle = 33 deg.
Alluvium 1	Undrained Shear Strength = 5,000 psf
Alluvium 2	Undrained Shear Strength = 1,400 psf
Alluvium 3	Undrained Shear Strength = 1,700 psf
Alluvium 4	Undrained Shear Strength = 1,500 psf
Alluvium 5	Undrained Shear Strength = 600 psf
Alluvium 6	Undrained Shear Strength = 400 psf
Sand	Cohesion = 0, Friction Angle = 40 deg.

PIGEON POINT LANDFILL

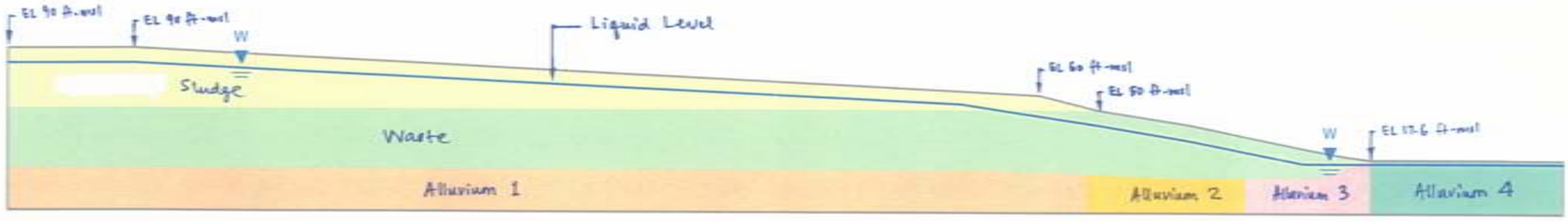
Figure 5A Existing Conditions of Cross-Section B-B



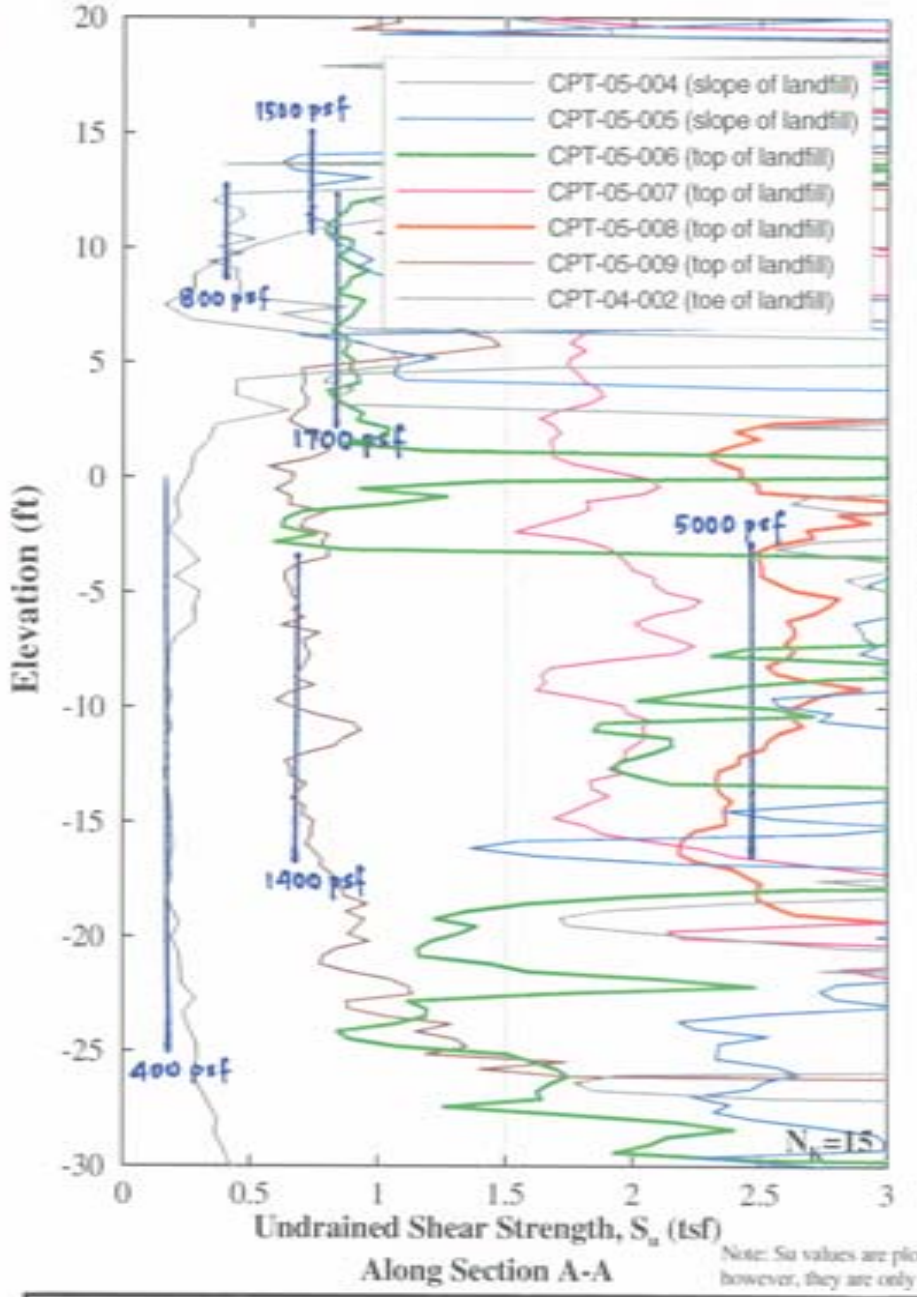
Stratum	Shear Strength Parameters
Stabilized Sludge	Cohesion = 0, Friction Angle = 30 deg.
Waste	Cohesion = 0, Friction Angle = 33 deg.
Alluvium 1	Undrained Shear Strength = 1,900 psf
Alluvium 2	Undrained Shear Strength = 1,400 psf
Alluvium 3	Undrained Shear Strength = 1,300 psf
Alluvium 4	Undrained Shear Strength = 400 psf

PIGEON POINT LANDFILL

Figure 5B Final Grade Conditions of Cross-Section B-B

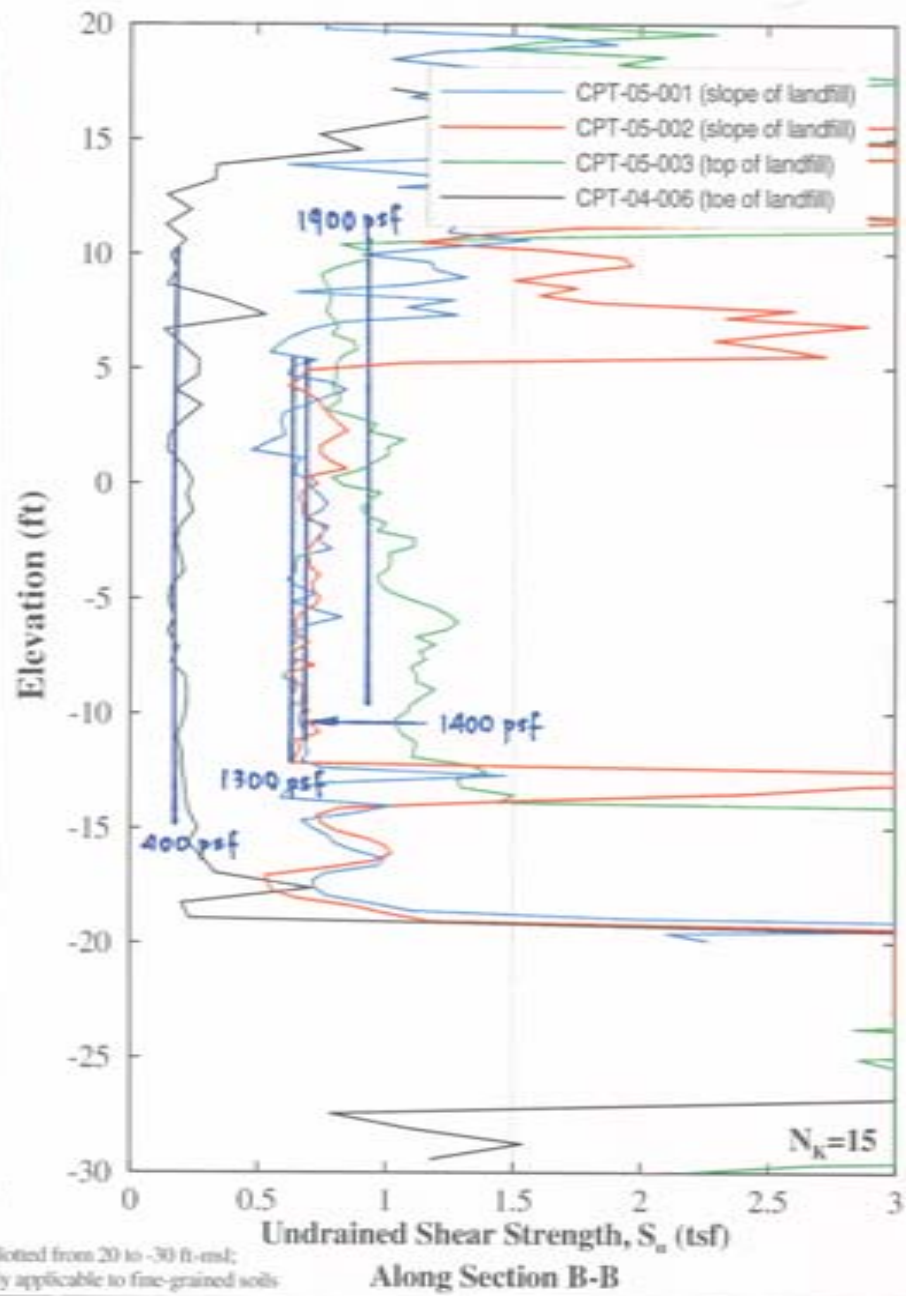


Stratum	Shear Strength Parameters
Stabilized Sludge	Cohesion = 0, Friction Angle = 30 deg.
Waste	Cohesion = 0, Friction Angle = 33 deg.
Alluvium 1	Undrained Shear Strength = 1,900 psf
Alluvium 2	Undrained Shear Strength = 1,400 psf
Alluvium 3	Undrained Shear Strength = 1,300 psf
Alluvium 4	Undrained Shear Strength = 400 psf



Along Section A-A

Note: Su values are plotted from 20 to -30 ft-msl; however, they are only applicable to fine-grained soils



Along Section B-B

GEOSYNTEC CONSULTANTS
10015 Old Columbia Road, Suite A-200
Columbia, Maryland 21046

Profiles of Undrained Shear Strength

FIGURE 6

PROJECT: ME0414 Pigeon Point

ME0414\March 05 CPT Data\Su_final.grf

2.3 / 93

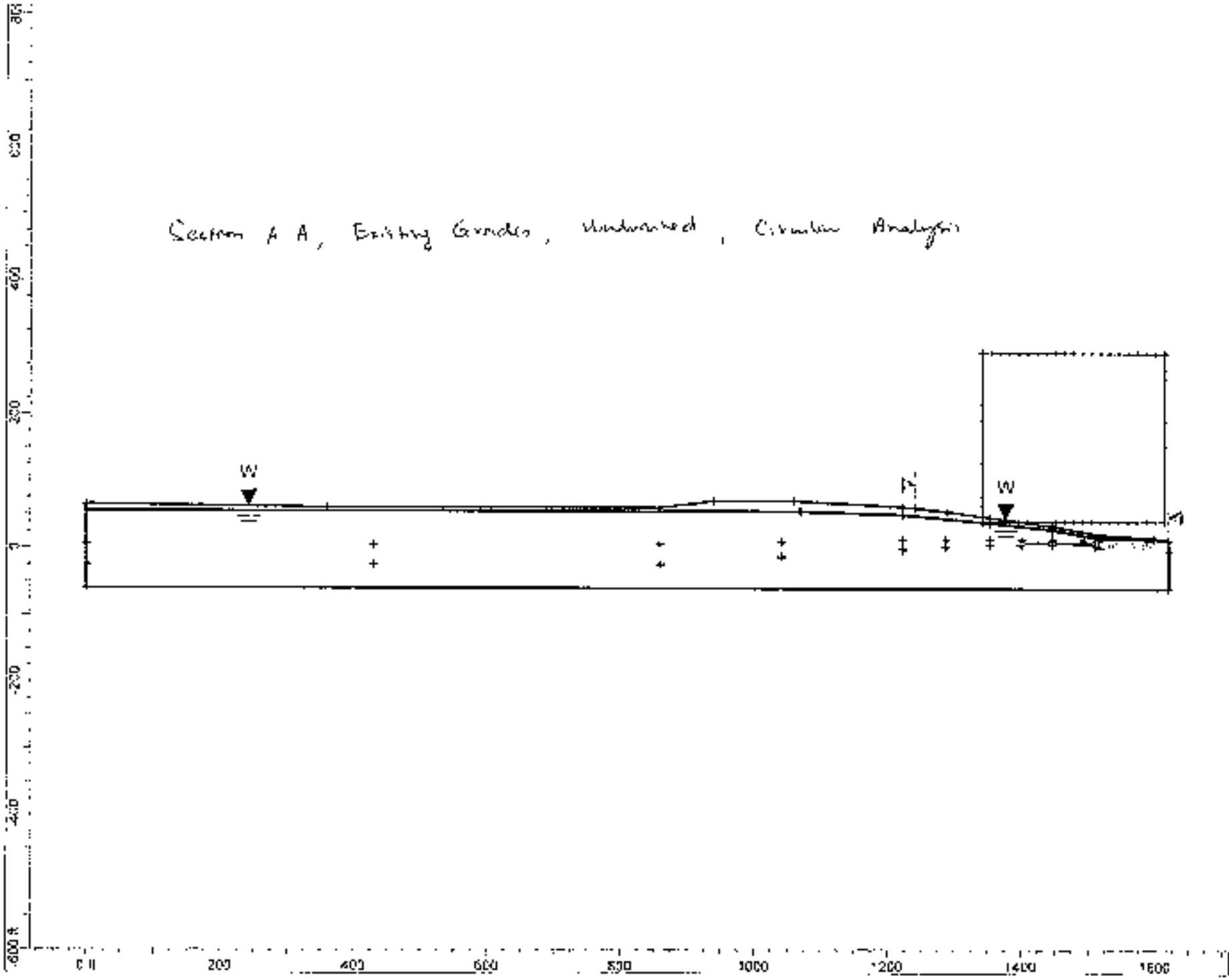
Written by: J. C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix A

Section A-A, Existing Grade, Undrained, Circular Analysis

Section A A, Existing Grades, Undrained, Circular Analysis



2.5T
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950
900
850
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750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50
-100
-150

Slide Analysis Information

Document Name

File Name: [illegible]

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Rapid Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10110
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used:
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius Increment: 50
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Sludge
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Waste
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Aluminum 1
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 5000 psf
Water Surface: None

Material: Aluminum 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Aluminum 3
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1700 psf
Water Surface: None

Material: Aluminum 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1500 psf
Water Surface: None

Material: Aluminum 5
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 900 psf
Water Surface: None

Material: Aluminum 6
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3

Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 400 psf
Water Surface: None

Material: Sand
Strength Type: Mohr Coulomb
Unsaturated Unit Weight: 120 lb/ft3
Saturated Unit Weight: 130 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees
Water Surface: Water Table
Custom Ru value: 1

Global Minimums

Method: spencer
FS: 7.56/100
Center: 1477.558, 115.487
Radius: 102.414
Left Slip Surface Endpoint: 1410.201, 37.992
Right Slip Surface Endpoint: 1515.564, 20.267
Resisting Moment=4.0733e+006 lb-ft
Driving Moment=1.58513e+006 lb-ft
Resisting Horizontal Force=35095.7 lb
Driving Horizontal Force=4521.1 lb

Valid / Invalid Surfaces

Method: spencer
Number of Valid Surfaces: 21375
Number of Invalid Surfaces: 1115
Error Codes:
Error Code -103 reported for 117 surfaces
Error Code -106 reported for 35 surfaces
Error Code -108 reported for 6 surfaces
Error Code -111 reported for 15 surfaces
Error Code -112 reported for 343 surfaces

Error Codes

The following errors were encountered during the computation:

-103 = Two surface / slope intersections, but one or more surface / nonslope external polygon intersections lie between them. This usually occurs when the slip surface extends past the bottom of the soil region, but may also occur on a benched slope model with two sets of Slope Limits.

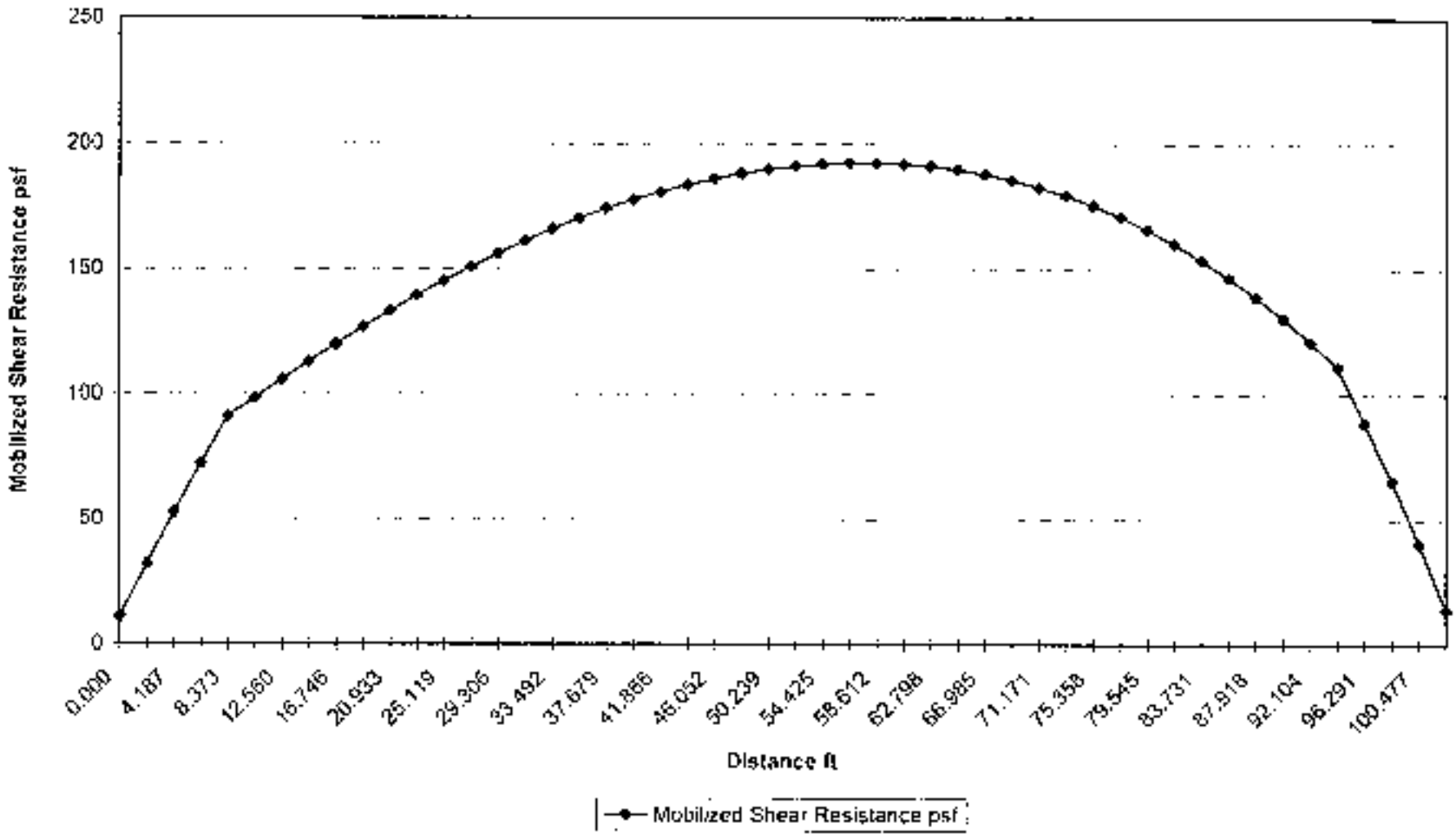
-106 = Average slice width is less than 0.0001 (minimum for contact extent of soil region). This error is imposed to avoid numerical errors which may result from too many slices, or too small a slip region.

-108 = Final driving moment or total driving force = 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 is an arbitrary number).

-111 = safety factor equation did not converge.

-112 = The coefficient M Alpha = cos(Alpha) + sin(Alpha)*tan(phi)/Fs = 0.2 for the final iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis, in particular, deep seated slip surfaces with many high negative base angle slices in the passive zone.

Section A-A, Existing Grade, Undrained, Circular Analysis
spencer FS = 2.57
Radius (102) Centor (1478, 115)



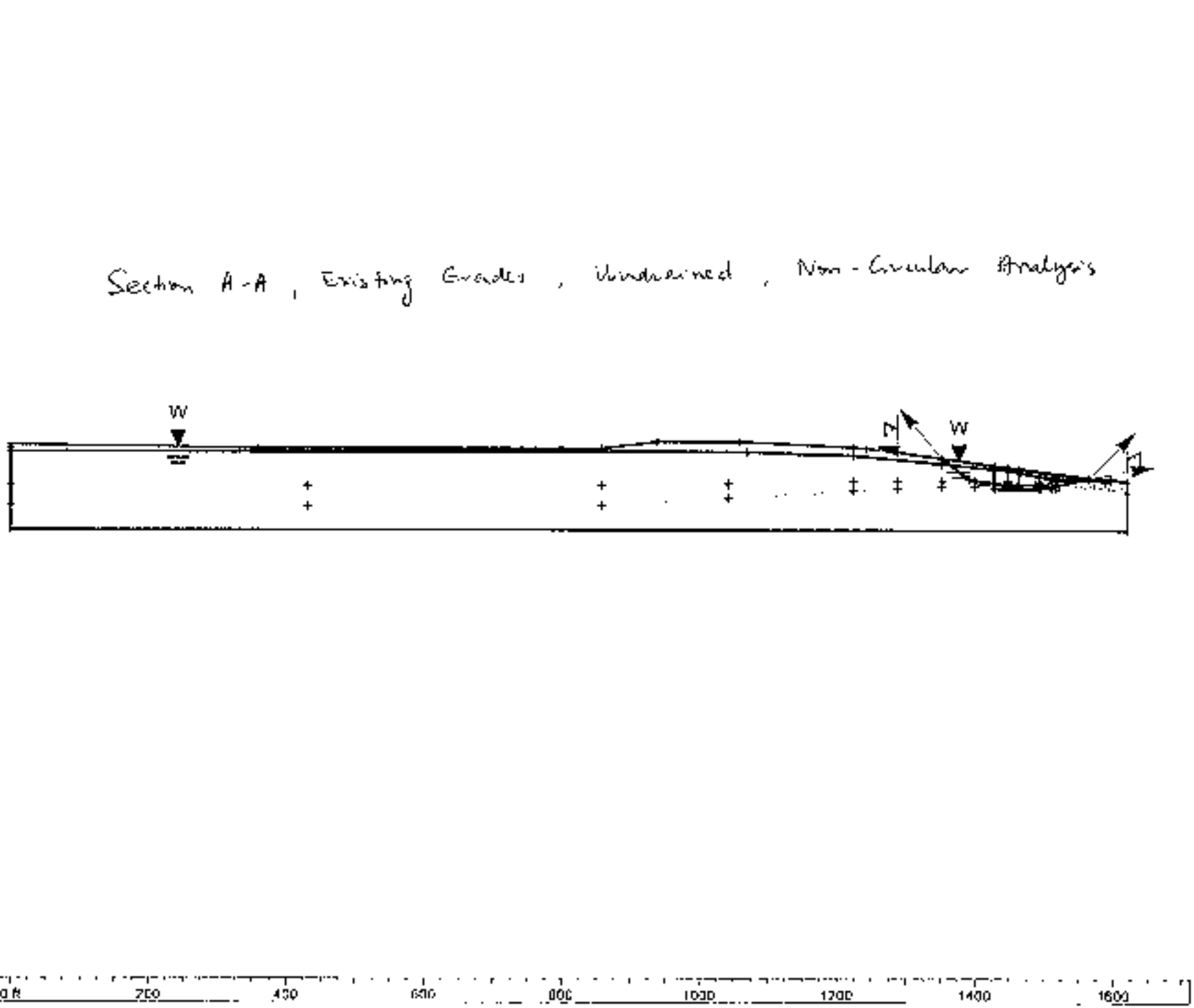
Written by: J.C.Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

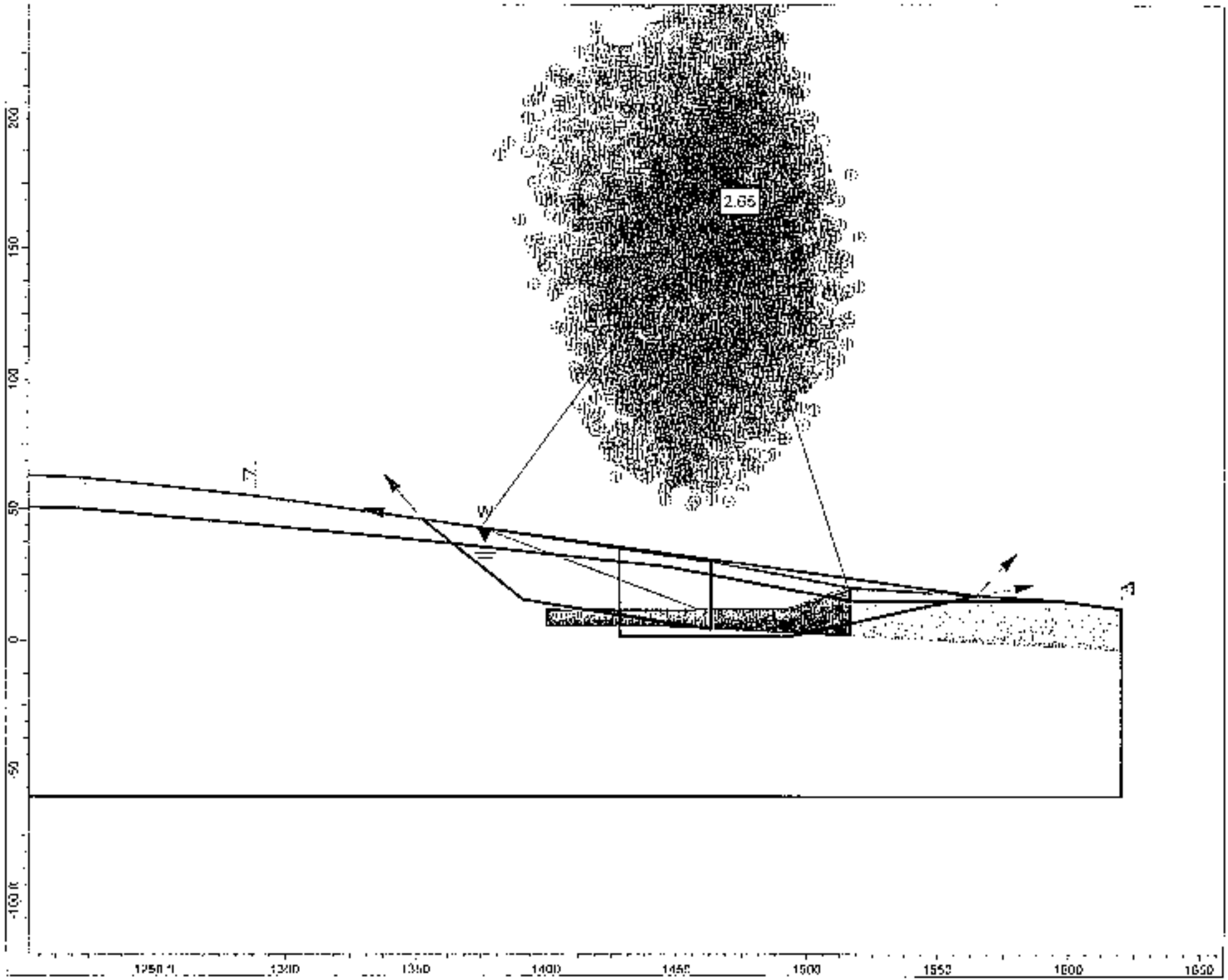
Client: DSWA Project: PPL Project/Proposal No.: MD0414 Task No.: 6

Appendix B

Section A-A, Existing Grade, Undrained, Non-Circular Analysis

Section A-A , Existing Grades , Undrained , Non-Circular Analyses




2.65
200
150
100
50
0
-50
-100
1250
1300
1350
1400
1450
1500
1550
1600
1650

Slide Analysis Information

Document Name.

File Name: [illegible]

Project Settings.

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Surface Water Surfaces to Cross: On
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller 3

Analysis Methods

Analysis Methods used:
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Non-Circular Block Search
Number of Surfaces: 4000
Pseudo-Random Surfaces: Enabled
Convex Surfaces Only: Disabled
Left Projection Angle (Left Angle): 135
Left Projection Angle (Left Angle): 170
Right Projection Angle (Right Angle): 10
Right Projection Angle (Right Angle): 45

Material Properties

Material: Shale
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psi
Friction Angle: 38 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Weak
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 95 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion: 1500 psi
Friction Angle: 31 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Alluvium 1
Strength Type: Undrained
Unsaturated Unit Weight: 90 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 2000 psf
Water Surface: None

Material: Alluvium 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Alluvium 3
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1750 psf
Water Surface: None

Material: Alluvium 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1500 psf
Water Surface: None

Material: Alluvium 5
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 800 psf
Water Surface: None

Material Alluvium
Strength Type: Undrained
Unsaturated Unit Weight: 95 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 450 psf
Water Surface: None

Material Sand
Strength Type: Mohr Coulomb
Unsaturated Unit Weight: 130 lb/ft3
Saturated Unit Weight: 130 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees
Water Surface: Water Table
Custom Hydraulic: 1

Global Minimums

Method: spencer
FS: 2.651620
Axis Location: 1468.703, 171.756
Left Slip Surface Endpoint: 1375.579, 42.877
Right Slip Surface Endpoint: 1519.750, 20.720
Resisting Moment=0.19971e+009 lb-ft
Driving Moment=3.0539e+006 lb-ft
Resisting Horizontal Force=50340.3 lb
Driving Horizontal Force=10301.1 lb

Valid / Invalid Surfaces

Method: spencer
Number of Valid Surfaces: 4317
Number of Invalid Surfaces: 683
Error Codes:
Error Code -105 reported for 3 surfaces
Error Code -107 reported for 45 surfaces
Error Code -109 reported for 573 surfaces
Error Code -111 reported for 51 surfaces
Error Code -112 reported for 49 surfaces

Error Codes

The following errors were encountered during the computation:

-105 = More than two surface tie-ups intersections with no valid slip surface

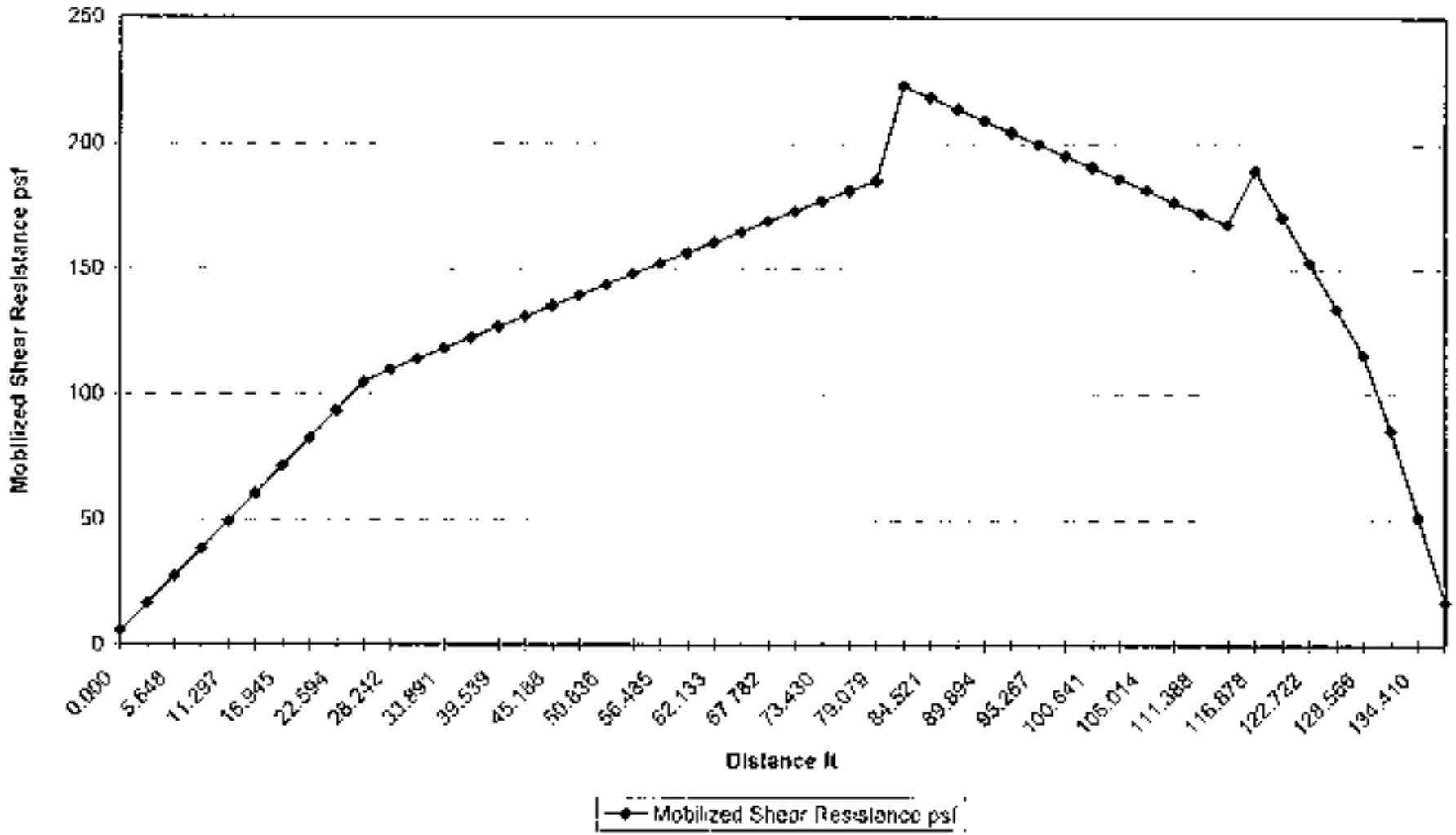
-107 = Total driving moment or total driving force in negative. This will occur if the wrong favored direction in specified or if high external or anchor loads are applied against the failure direction

-109 = Total driving moment or total driving force = 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 lb as arbitrary number)

-111 = safety factor equation did not converge

-112 = The quantity of M Alpha = cos(alpha)(1+tan(alpha)tan(phi)/F) < 0.2 for the final iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis. In particular, deep coastal slip surfaces with many high negative pass angle slices in the passive zone

Section A-A, Existing Grade, Undrained, Non-Circular Analysis
spencer FS = 2.65
Radius (160) Center (1468, 172)



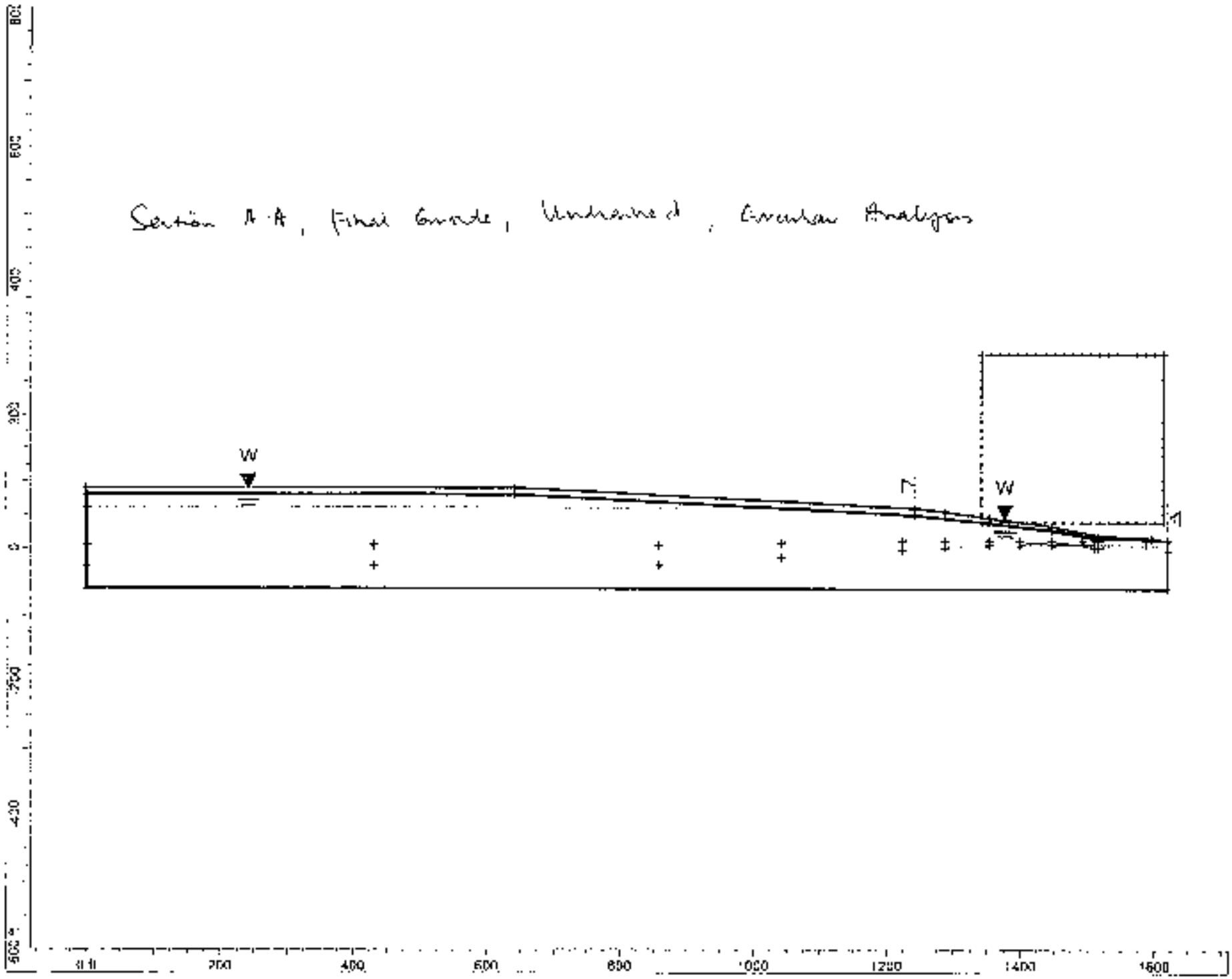
Written by: J. C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix C

Section A-A, Final Grade, Undrained, Circular Analysis

Section A-A, Final Grade, Undrained, Circular Analysis



257
W
1600
1550
1500
1450
1400
1350
1300
1250 m
150
100
50
0
50
100

Slide Analysis Information

Document Name

File Name: ca_final_short_circular.sk

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Ru with Water Surfaces or Grids: On
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods Used
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius Increment: 50
Maximum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Sludge
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Sludge

Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Alluvium 1
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 5000 psf
Water Surface: None

Material: Alluvium 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Alluvium 3
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1700 psf
Water Surface: None

Material: Alluvium 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1500 psf
Water Surface: None

Material: Alluvium 5
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 800 psf
Water Surface: None

Material: Alluvium 6
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3

Saturated Unit Weight: 1? lb/ft3
Cohesion Type: Constant
Cohesion: 400 psf
Water Surface: None

Material: Sand
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 120 lb/ft3
Saturated Unit Weight: 130 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees
Water Surface: Water Table
Custom Hu value: 1

Global Minimums

Method: spencer
FS: 2.569700
Center: 1427.858, 115.482
Radius: 102.414
Left Slip Surface Endpoint: 1410.901, 30.109
Right Slip Surface Endpoint: 1515.804, 30.757
Resisting Moment=4.0733e+006 lb-ft
Driving Moment=1.585?e+006 lb-ft
Resisting Horizontal Force=35805.? lb
Driving Horizontal Force=14??1.1 lb

Valid / Invalid Surfaces

Method: spencer
Number of Valid Surfaces: 21051
Number of Invalid Surfaces: 1173
Error Codes:
Error Code -103 reported for 717 surfaces
Error Code -106 reported for 36 surfaces
Error Code -108 reported for 5 surfaces
Error Code -111 reported for 16 surfaces
Error Code -112 reported for 350 surfaces

Error Codes

The following errors were encountered during the computation:

-103 = Two surface / slope intersections,
but one or more surface / non-slope external boundary
intersections lie between them. This usually occurs
when the slip surface extends past the bottom of the
soil region, but may also occur on a benched
slope model with two sets of Slope Limits.

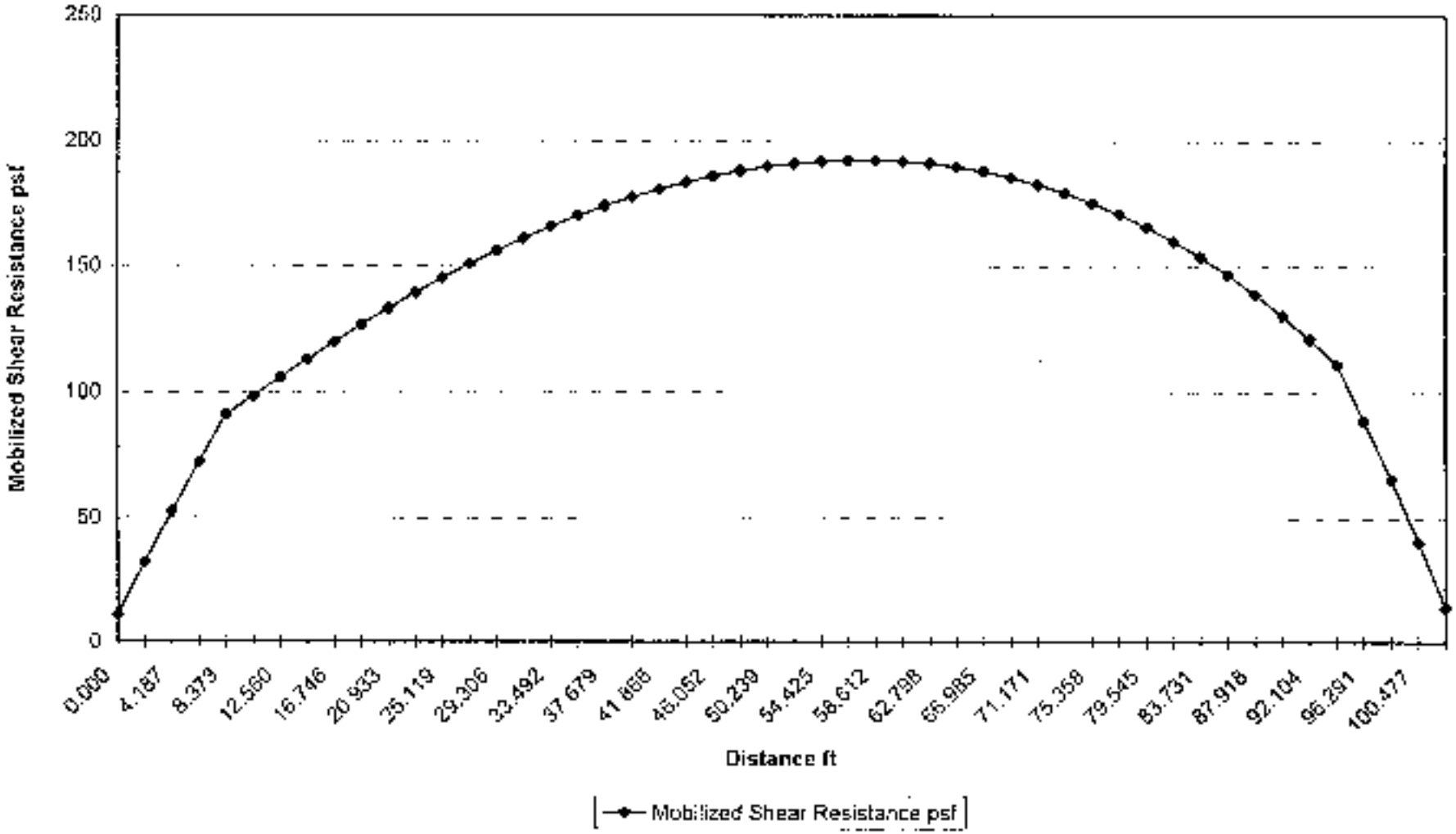
-106 = Average slice width is less than
0.0001 * (maximum horizontal extent of soil region).
This limitation is imposed to avoid numerical errors
which may result from too many slices, or too
small a slip region.

-108 = Total driving moment
or total driving force < 0.1. This is to
limit the calculation of extremely high safety
factors if the driving force is very small
(0.1 is an arbitrary number).

-111 = safety factor equation did not converge

-112 = The coefficient M-Alpha = cos(alpha)(1+tan(alpha)tan(phi)/F)
< 0.2 for the final iteration of the safety factor calculation. This screens out
some slip surfaces which may not be valid in the context of the analysis, in
particular, deep seated slip surfaces with many high negative base angles
in the passive zone.

Section A-A, Final Grade, Undrained, Circular Analysis
spencer FS = 2.57
Radius (102) Center (1478, 115)

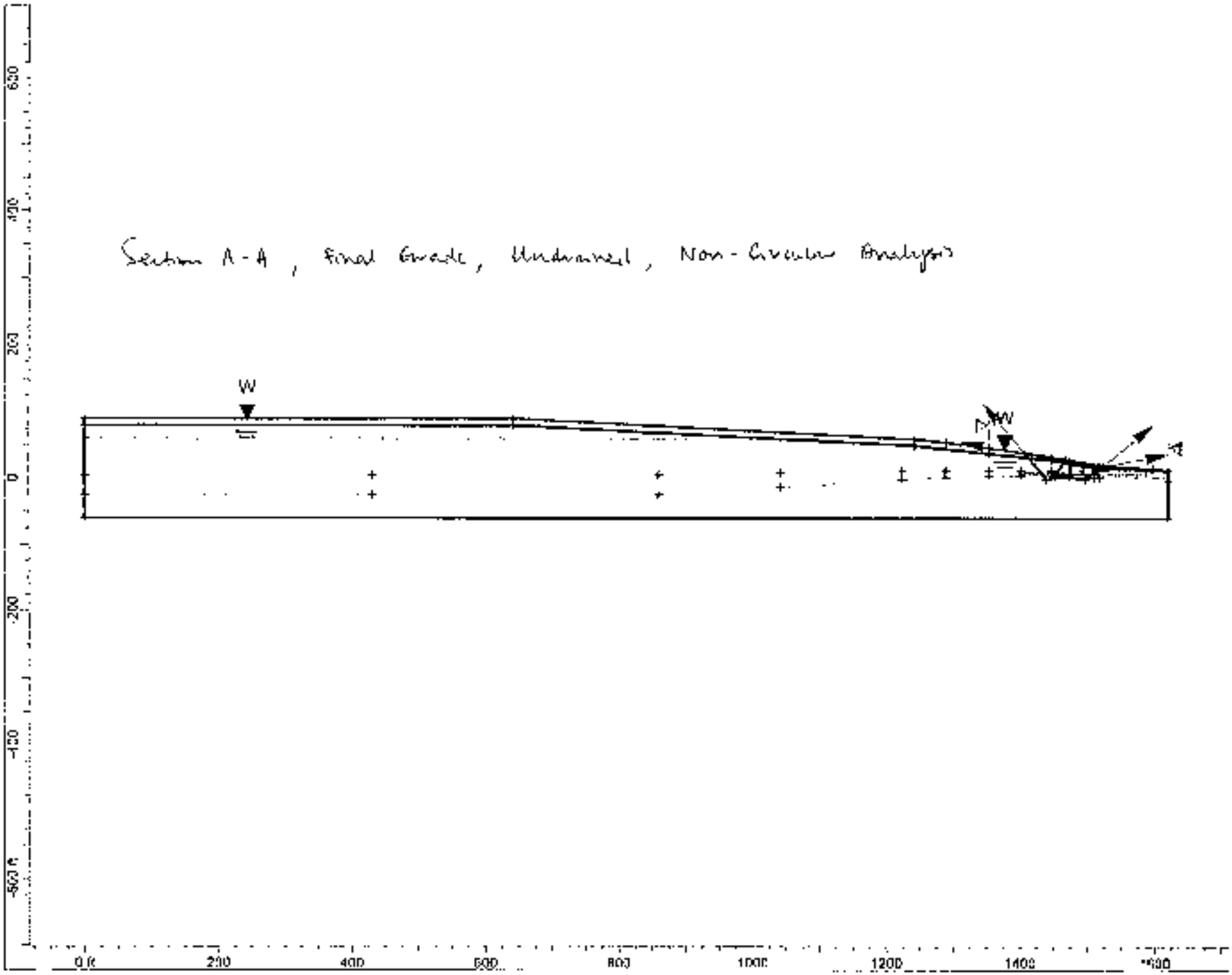


Written by: J. C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix D

Section A-A, Final Grade, Undrained, Non-Circular Analysis


Section A-A, Final Grade, Undrained, Non-Circular Analysis
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W
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400
200
0
-200
-400
-600 ft
0 ft
200
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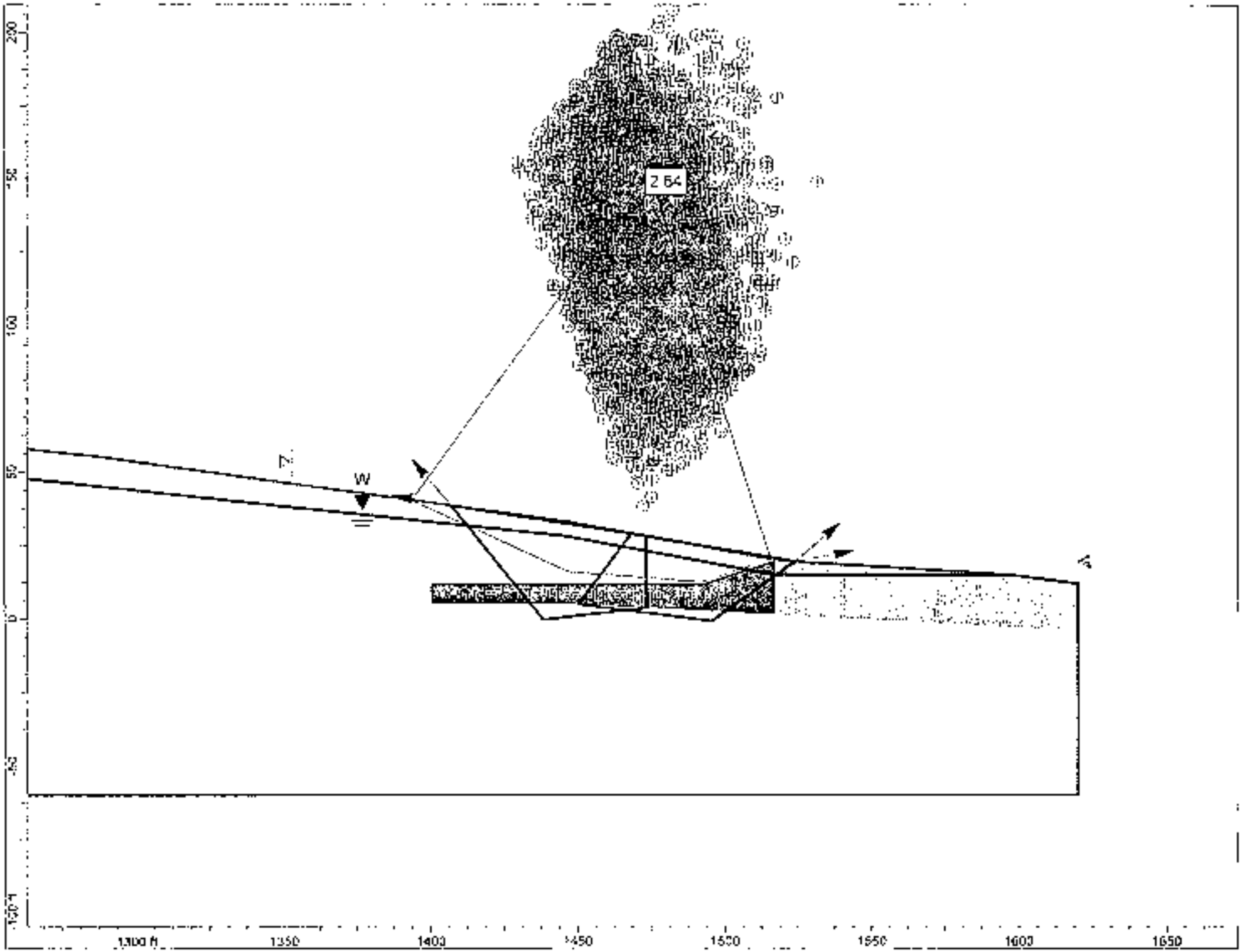
600
800
1000
1200
1400
1600


2.64
W
200
150
100
50
0
-50
-100
1300 ft
1350
1400
1450
1500
1550
1600
1650

Slide Analysis Information

Document Name

File Name: [illegible]

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Long Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62 [illegible]
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Rulings Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods Used
Spencer

Number of Slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Non-Circular Block Search
Number of Surfaces: 5000
Pseudo-Random Surfaces: Enabled
Convex Surfaces Only: Disabled
Left Projection Angle (Start Angle): 130
Left Projection Angle (End Angle): 170
Right Projection Angle (Start Angle): 10
Right Projection Angle (End Angle): 40

Material Properties

Material: Stripe
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 30 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hydraulic: 1

Material: Volume
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 25 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hydraulic: 1

Material: Absorber 1
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 5000 psf
Water Surface: None

Material: Absorber 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Absorber 3
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1700 psf
Water Surface: None

Material: Absorber 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1500 psf
Water Surface: None

Material: Absorber 5
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 800 psf
Water Surface: None

Material: Alluvium
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 400 psf
Water Surface: None

Material: Sand
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 120 lb/ft3
Saturated Unit Weight: 130 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees
Water Surface: Water Table
Custom Hydraulic: 1

Global Minimums

Method: spencer
FS: 2.064770
Axis Location: 1425.007, 152.306
Left Slip Surface Endpoint: 1093.012, 40.350
Right Slip Surface Endpoint: 1515.878, 20.704
Resisting Moment=5.11197e+006 lb-ft
Driving Moment=2.31090e+006 lb-ft
Resisting Horizontal Force=42765.9 lb
Driving Horizontal Force=16168.1 lb

Valid / Invalid Surfaces

Method: spencer
Number of Valid Surfaces: 4204
Number of Invalid Surfaces: 612
Error Codes:
Error Code: -107 reported for 5 surfaces
Error Code: -108 reported for 408 surfaces
Error Code: -111 reported for 57 surfaces
Error Code: -112 reported for 67 surfaces

Error Codes

The following errors were encountered during the computation:

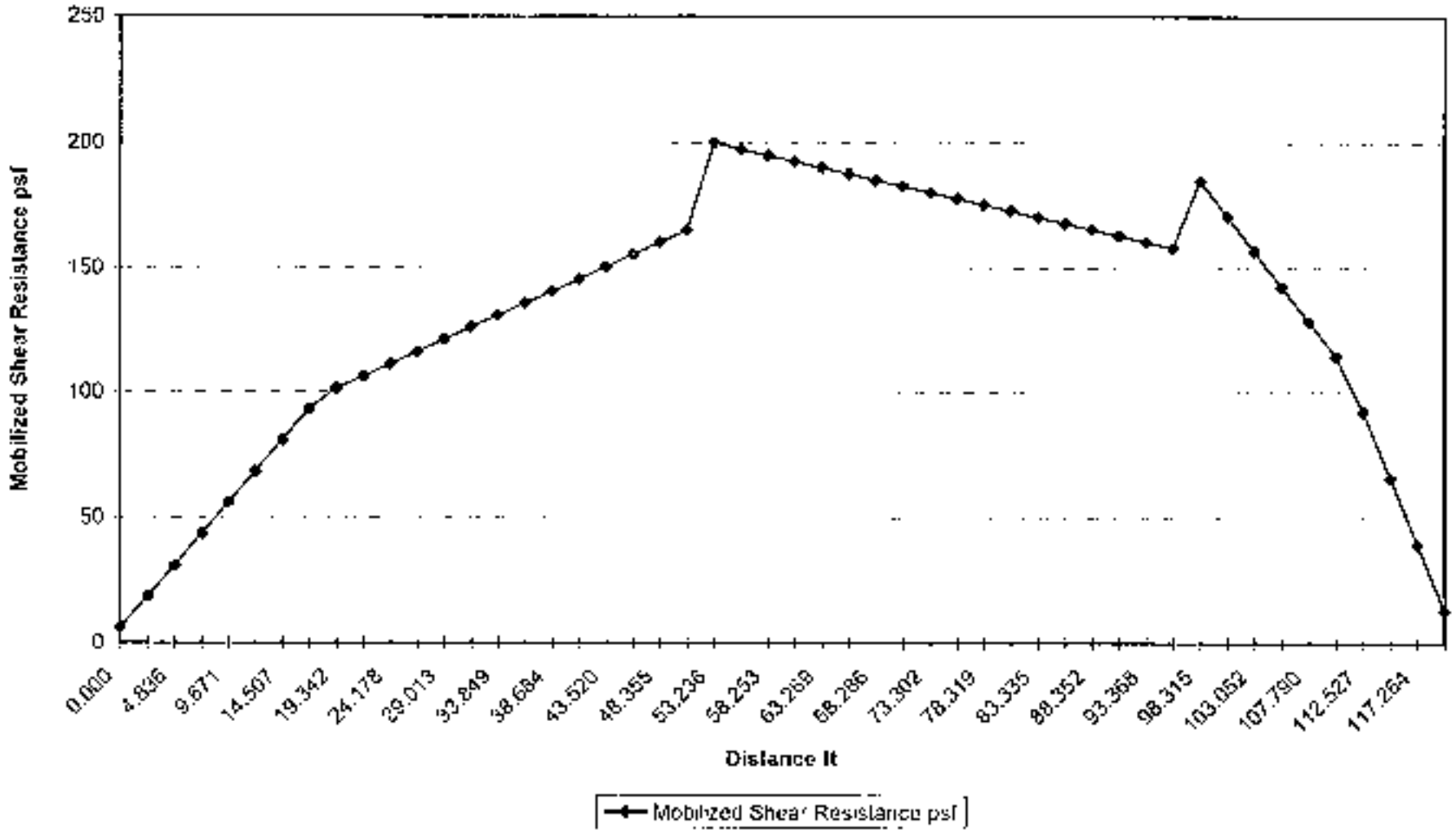
-107 = Total driving moment or total driving force is negative. This will occur if the wrong failure direction is specified or if high external or anchor loads are applied against the failure direction.

-108 = Total driving moment or total driving force = 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (2.1 is on 1 lb Very number)

-111 = safety factor equation did not converge

-112 = The coefficient M-Alpha = cos(alpha)(1+tan(alpha)*tan(phi)/F) < 0.2 for the first iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis, in particular, deep crested slip surfaces with many high negative base angle cases in the passive zone.

Section A-A, Final Grade, Undrained, Non-Circular Analysis
spencer FS = 2.64
Radius (139) Center (1475, 152)



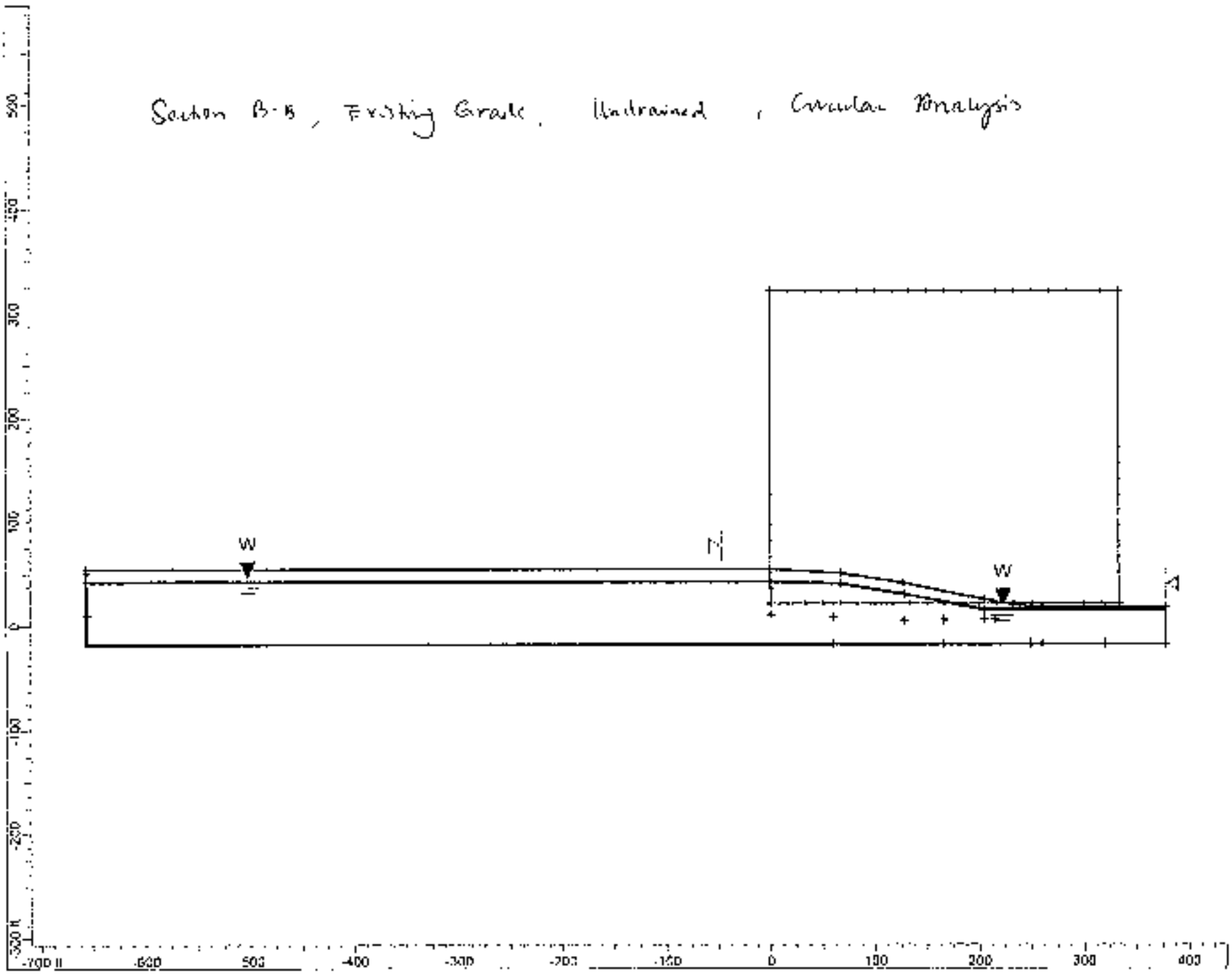
Written by: J. C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix E

Section B-B, Existing Grade, Undrained, Circular Analysis

Section B-B, Existing Grade, Undrained, Circular Analysis



2.51
W
400
350
300
250
200
150
100
50
0
-50
-50
0
50
100
150
200
250

Slide Analysis Information

Document Name

File Name: 55 existing Ulm circular.sli

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 (kN/m3)
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Left and Right Pore Pressure: Off
Allow Surface Water Surfaces to Ponds: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods Used
Spencer

Number of Slices: 50
Tolerance: 0.005
Maximum Number of Iterations: 50

Surface Options

Surface Type: Circular
Search Method: Slope
Minimum Elevation: Off
Composite Surfaces: Disabled
Reduce Convex: Check Tension Cracks

Material Properties

Material: Bridge
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 (kN/m3)
Saturated Unit Weight: 150 (kN/m3)
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu Value: 1

Material: Gravel

Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 (kN/m3)
Saturated Unit Weight: 100 (kN/m3)
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu Value: 1

Material: Alluvium 1
Strength Type: Undrained
Unsaturated Unit Weight: 85 (kN/m3)
Saturated Unit Weight: 97 (kN/m3)
Cohesion Type: Constant
Cohesion: 1900 psf
Water Surface: None

Material: Alluvium 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 (kN/m3)
Saturated Unit Weight: 97 (kN/m3)
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Alluvium 3
Strength Type: Undrained
Unsaturated Unit Weight: 85 (kN/m3)
Saturated Unit Weight: 91 (kN/m3)
Cohesion Type: Constant
Cohesion: 1300 psf
Water Surface: None

Material: Alluvium 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 (kN/m3)
Saturated Unit Weight: 91 (kN/m3)
Cohesion Type: Constant
Cohesion: 400 psf
Water Surface: None

Global Minimums

Method: spencer
FS: 2.517500
Center: 103.514, 201.150
Radius: 194.495
Left Slip Surface Endpoint: 68.053, 10.476
Right Slip Surface Endpoint: 248.346, 17.775
Resisting Moment=2.36163e+007 lb-ft
Driving Moment=9.38014e+006 lb-ft
Resisting Horizontal Force=116540 lb

Driving Horizontal Force: 16350.6 lb

Valid / Invalid Surfaces

Method, spencer
Number of Valid Surfaces: 19200
Number of Invalid Surfaces: 3751
Error Codes
Error Code -103 reported for 103 surfaces
Error Code -108 reported for 1127 surfaces
Error Code -111 reported for 17 surfaces
Error Code -112 reported for 1700 surfaces
Error Code -113 reported for 2 surfaces
Error Code -115 reported for 72 surfaces
Error Code -1000 reported for 204 surfaces

Error Codes

The following errors were encountered during the computation

-103 = Two surface / slope intersections
but one or more surface / envelope external polygon
intersections to between them. This usually occurs
when the slip surface extends past the bottom of the
envelope, but may also occur on a bedrock
slope model with two sets of Slope Limits

-108 = Total driving moment
or total driving force < 0.1. This is to
limit the calculation of extremely high safety
factors if the driving force is very small
(0.1 is an arbitrary number)

-111 = safety factor equation did not converge

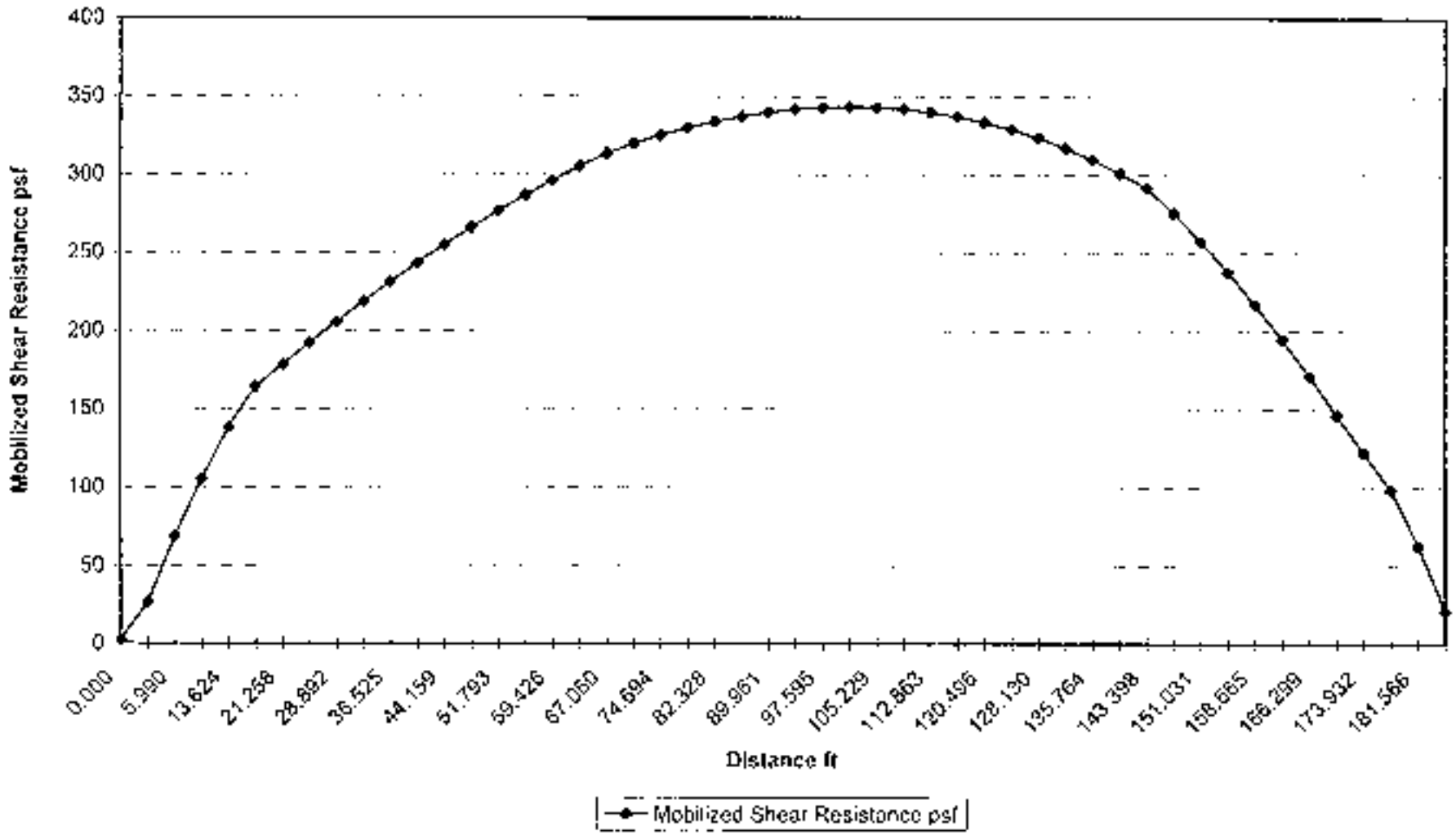
-112 = The confirmed M. Alpha = cos(alpha)(1+tan(alpha)tan(phi)/2)
< 0.2 for the final iteration of the safety factor calculation. This occurs but
some slip surfaces which may not be valid in the context of the analysis. In
particular, drop-shaped slip surfaces with many high negative base angle
slices in the passive zone

-113 = Surface intersects both de slope limits

-115 = Surface not shown, below the minimum depth

-1000 = No valid slip surfaces are generated
at a grid center. Unable to draw a surface

Section B-B, Existing Grade, Undrained, Circular Analysis
spencer FS = 2.51
Radius (194) Center (184, 201)

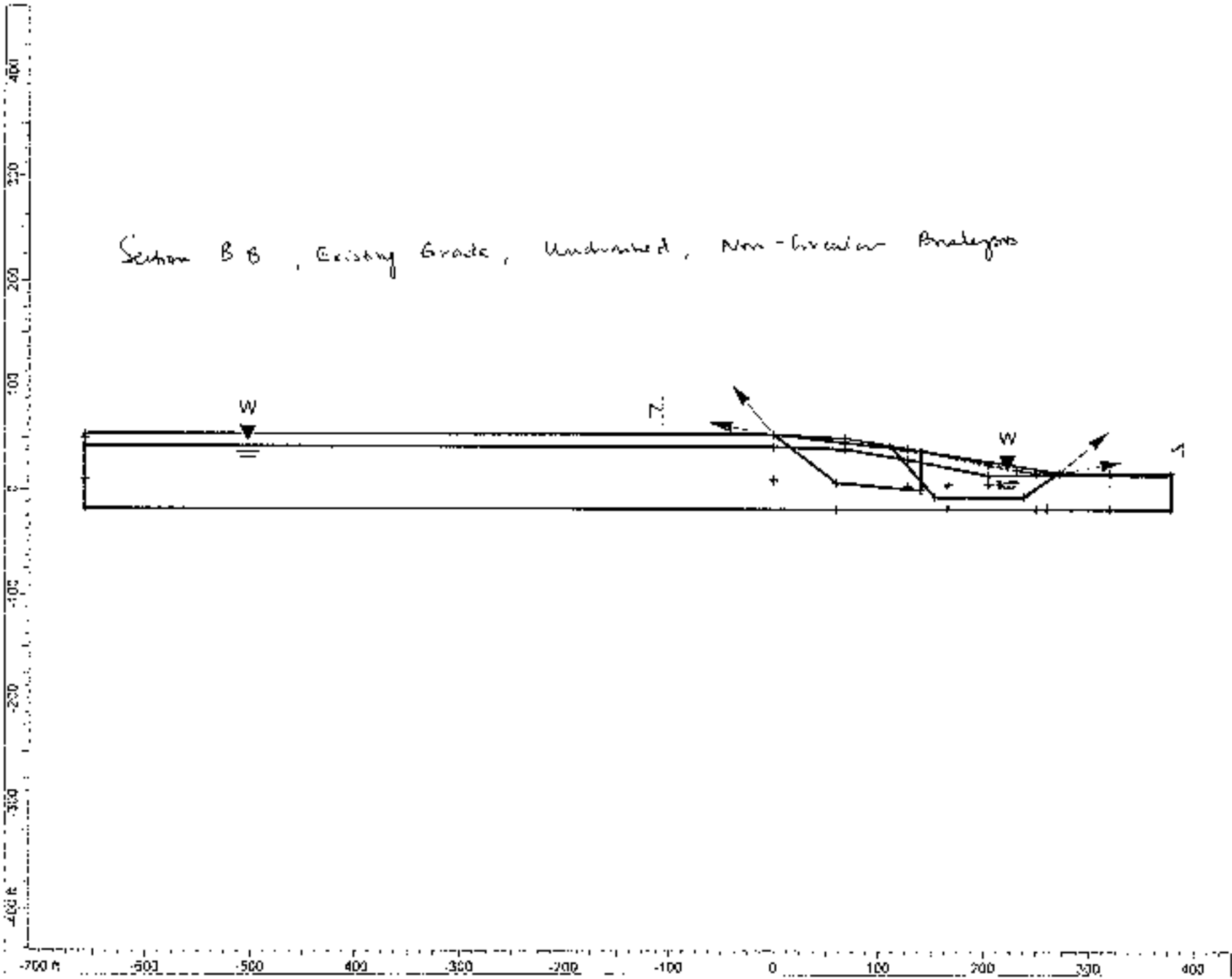


Written by: J. C. Wong Date: 3/17/05 Reviewed by D. Espinoza Date 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix F

Section B-B, Existing Grade, Undrained, Non-Circular Analysis


Section B B , Existing Grade, Undrained, Non-Circular Bruleyers
W
N
W
400
300
200
100
0
-100
-200
-300
-400 ft
-700 ft
-600
-500
-400
-300
-200
-100
0
100
200
300
400

261
W
N
F
T
-100
-50
0
50
100
150
200
250
300
350
400
-50
0
50
100
150
200
250
300

Slide Analysis Information

Document Name

File Name: bb_existing_short_presentation.s...

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Extensive
Calculate Excess Pore Pressure: Off
Allow Surface Water Surfaces to Cross: On
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods Used
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Non-Circular Block Search
Number of Surfaces: 5000
Pseudo-Random Surfaces: Enabled
Convex Surfaces Only: Disabled
Left Projection Angle (Start Angle): 130
Left Projection Angle (End Angle): 170
Right Projection Angle (Start Angle): 10
Right Projection Angle (End Angle): 40

Material Properties

Material: Stone
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 165 lb/ft3
Cohesion: 0 psi
Friction Angle: 30 degrees
Water Surface: Water Table
Custom hu value: 1

Material: Stone
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 165 lb/ft3
Cohesion: 0 psi
Friction Angle: 33 degrees
Water Surface: Water Table
Custom hu value: 1

Material: Alluvium 1
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1000 psf
Water Surface: None

Material: Alluvium 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Alluvium 3
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1000 psf
Water Surface: None

Material: Alluvium 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 400 psf
Water Surface: None

Global Minimums

Method: spencer
FS: 2.002040
Axis Location: 106 134, 220 570
Left Slip Surface Endpoint: 57 524, 60 030
Right Slip Surface Endpoint: 240 740, 17 030
Resisting Moment=2.56134e+007 lb-ft
Driving Moment=1.27888e+007 lb-ft

Driving Moment = 9.5[illegible]e+006 lb-ft
Resisting Horizontal Force = 11[illegible] lb
Driving Horizontal Force = 43[illegible] lb

Valid / Invalid Surfaces

Method: Spencer
Number of Valid Surfaces: 4750
Number of Invalid Surfaces: 220
Error Codes:
Error Code -105 reported for 2 surfaces
Error Code -107 reported for 10 surfaces
Error Code -108 reported for 135 surfaces
Error Code -111 reported for 11 surfaces
Error Code -112 reported for 12 surfaces

Error Codes

The following errors were encountered during this computation:

-105 = Mesa Dam two surface / slope intersections with no valid slip surface

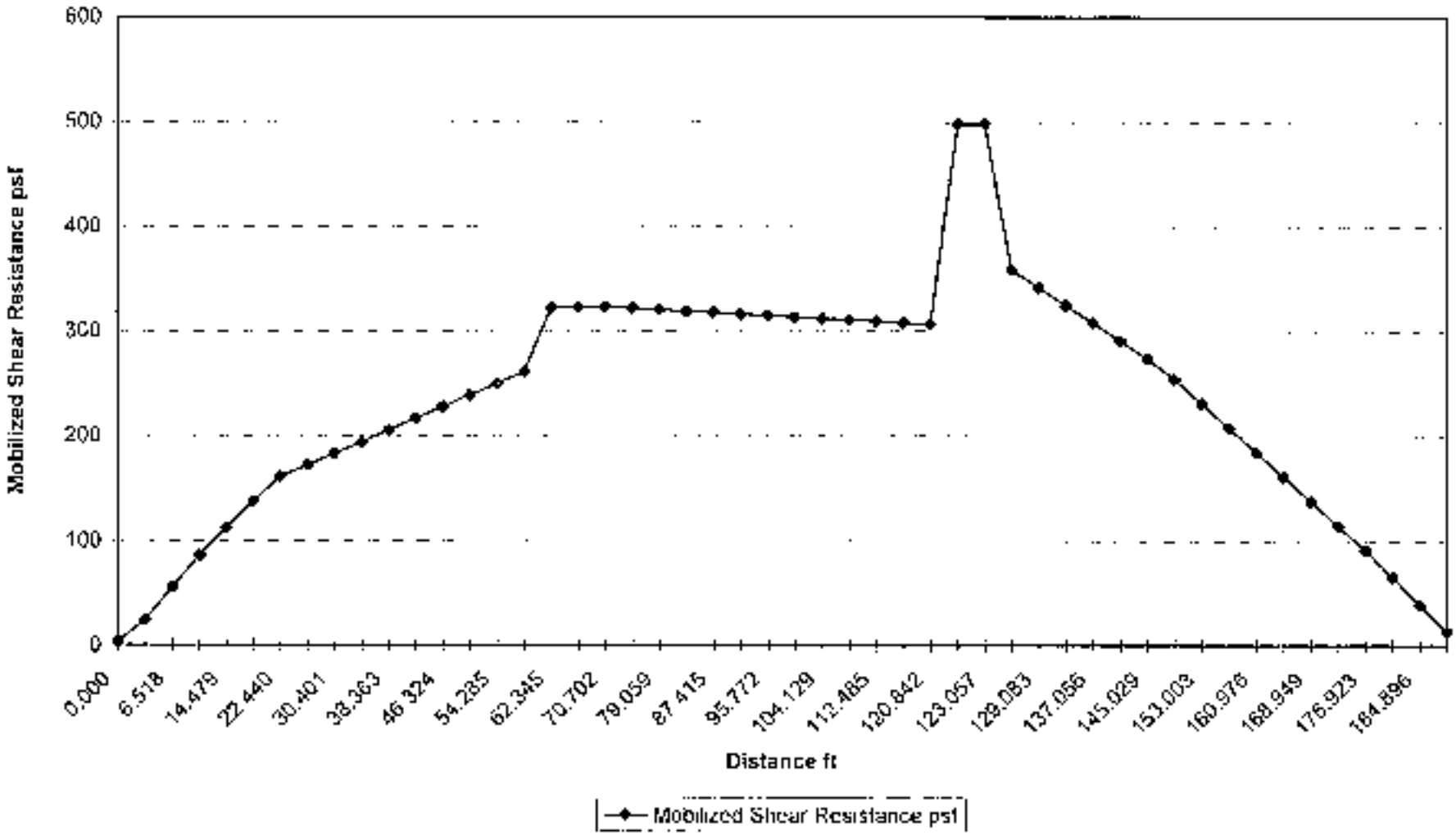
-107 = Total driving moment or total driving force is negative. This will occur if the wrong failure direction is specified or if high external or anchor loads are applied against the failure direction

-108 = Total driving moment or total driving force = 0.1. This is to limit the calculation of unkennedy high safety factors if the driving force is very small (0.1 is an arbitrary number)

-111 = safety factor equation did not converge

-112 = The continuous N-Alpha = cos(alpha)[1+tan(alpha)*sin(alpha)/(F)] = 0.2 for the final iteration of the safety factor calculation. This comes out some slip surfaces which may not be valid in the context of the analysis. In particular, deep sealed slip surfaces with many high negative base angle sides in the passive zone

Section B-B, Existing Grade, Undrained, Non-Circular Analysis
spencer FS = 2.61
Radius (219) Center (186, 226)



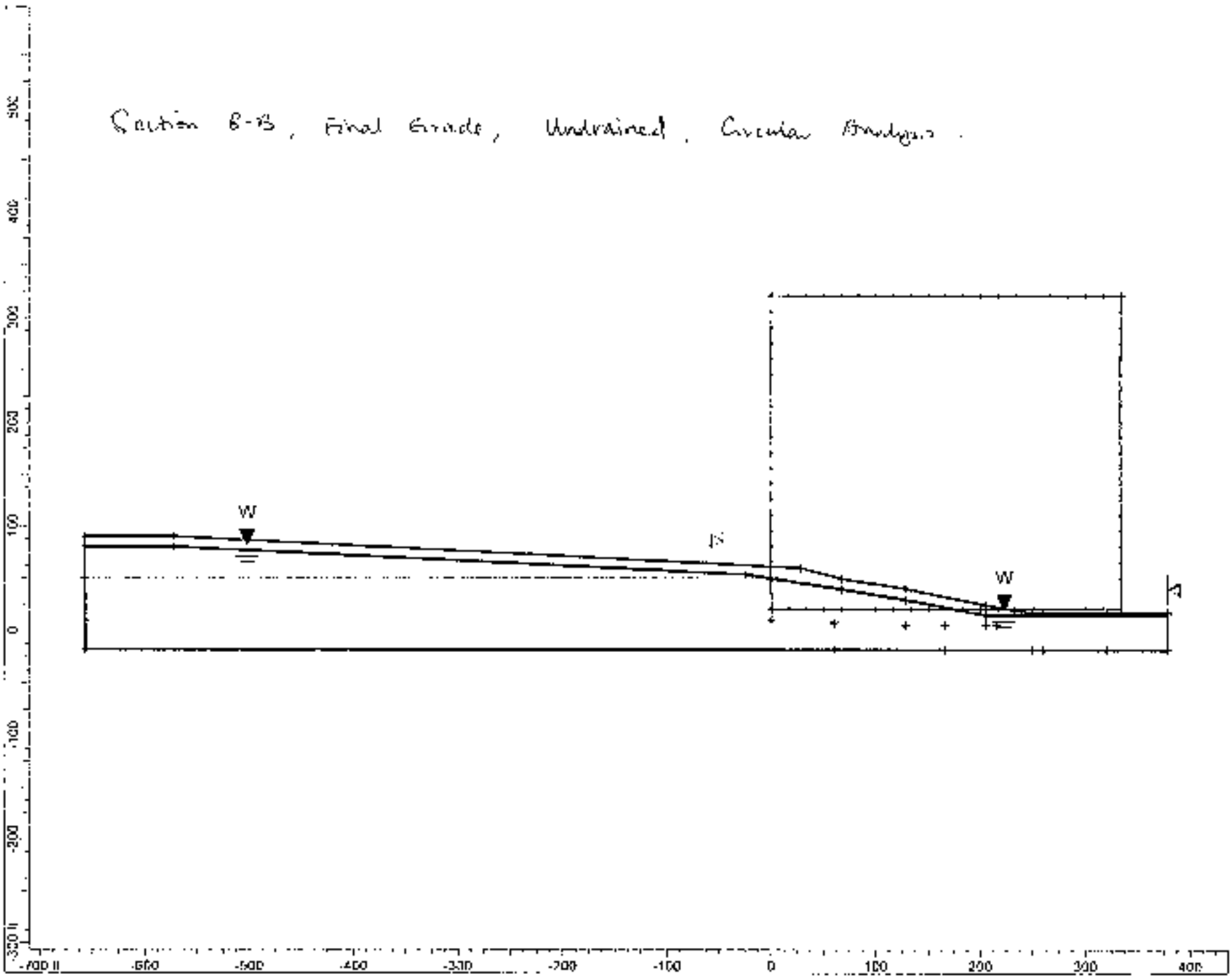
Written by: J. C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

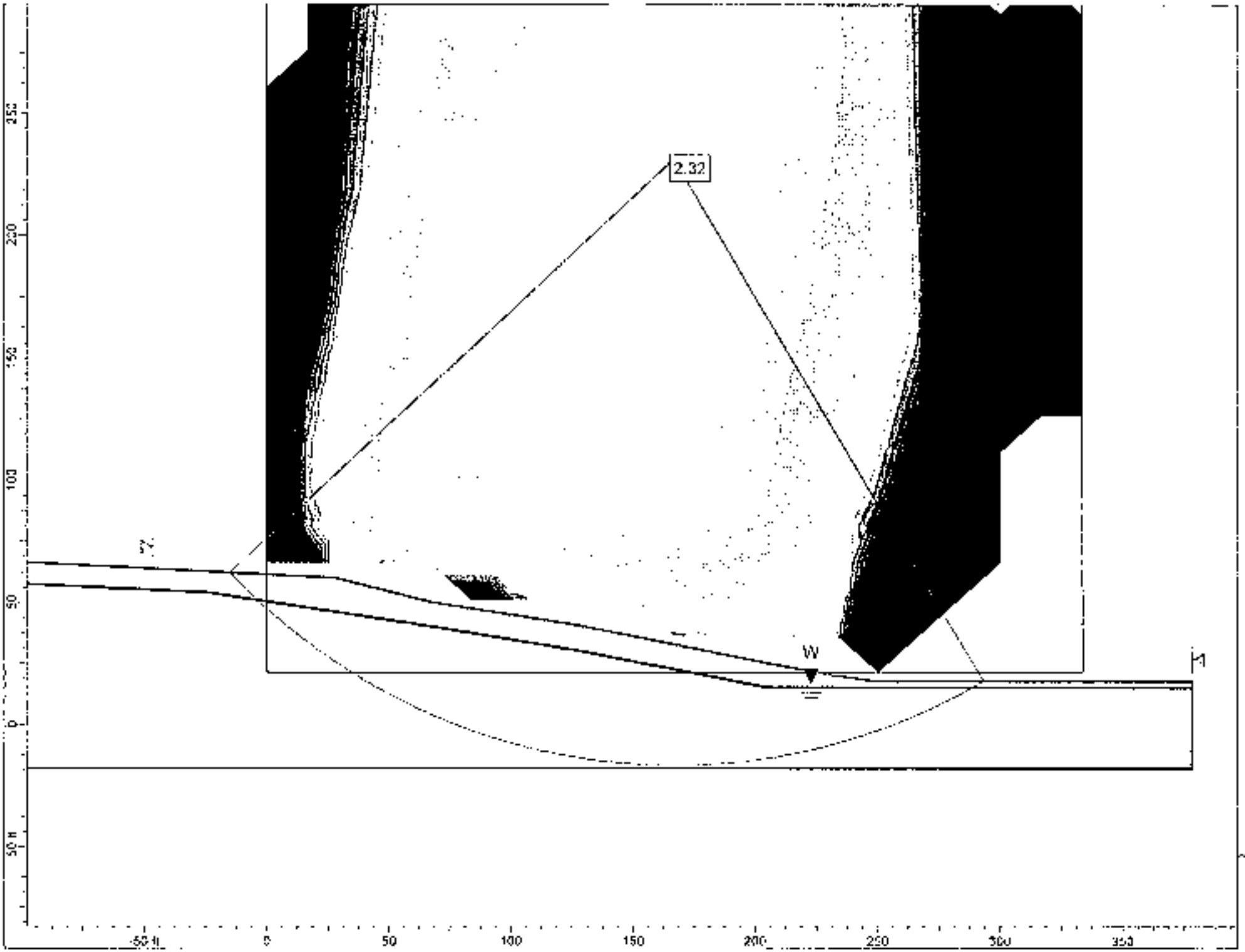
Appendix G

Section B-B, Final Grade, Undrained, Circular Analysis

Section B-B, Final Grade, Undrained, Circular Analysis.



54 / 69


2.32
W
-50 ft
0
50
100
150
200
250
300
350

Slide Analysis Information

Document Name

File Name: sb test short circular.sli

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Negative Water Surfaces or Piles: On
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods Used
Spencer

Number of Slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Search Increments: 10
Minimum Elevation: -10
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Slope
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Alluvium 1
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1900 psf
Water Surface: None

Material: Alluvium 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Alluvium 3
Strength Type: Undrained
Unsaturated Unit Weight: 83 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1300 psf
Water Surface: None

Material: Alluvium 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 400 psf
Water Surface: None

Global Minimums

Method: spencer
FS: 2.823770
Center: 100.660, 231.210
Radius: 240.197
Left Slip Surface Endpoint: -14.010, 42.141
Right Slip Surface Endpoint: 203.330, 47.530
Resisting Moment=8.04133e+007 lb-ft
Driving Moment=2.71458e+007 lb-ft
Resisting Horizontal Force=327918 lb

Driving Horizontal Force: 141115 lb

Valid / Invalid Surfaces.

Method: spencer
Number of Valid Surfaces: 19070
Number of Invalid Surfaces: 1463
Error Codes:
Error Code -103 reported for 152 surfaces
Error Code -108 reported for 1127 surfaces
Error Code -111 reported for 15 surfaces
Error Code -112 reported for 1561 surfaces
Error Code -113 reported for 13 surfaces
Error Code -115 reported for 6 surfaces
Error Code -1000 reported for 561 surfaces

Error Codes.

The following errors were encountered during the computation:

-103 = Two surface slope intersections but one or more surface lines are external polygon intersections as between them. This usually occurs when the slip surface extends past the bottom of the sea region, but may also occur on a benched slope model with two sets of Slope Limits.

-108 = Total driving moment or total driving force < 0.1. This is to avoid the calculation of extremely high safety factors. Total driving force is very small (0.1 in an arbitrary number).

-111 = safety factor equation did not converge.

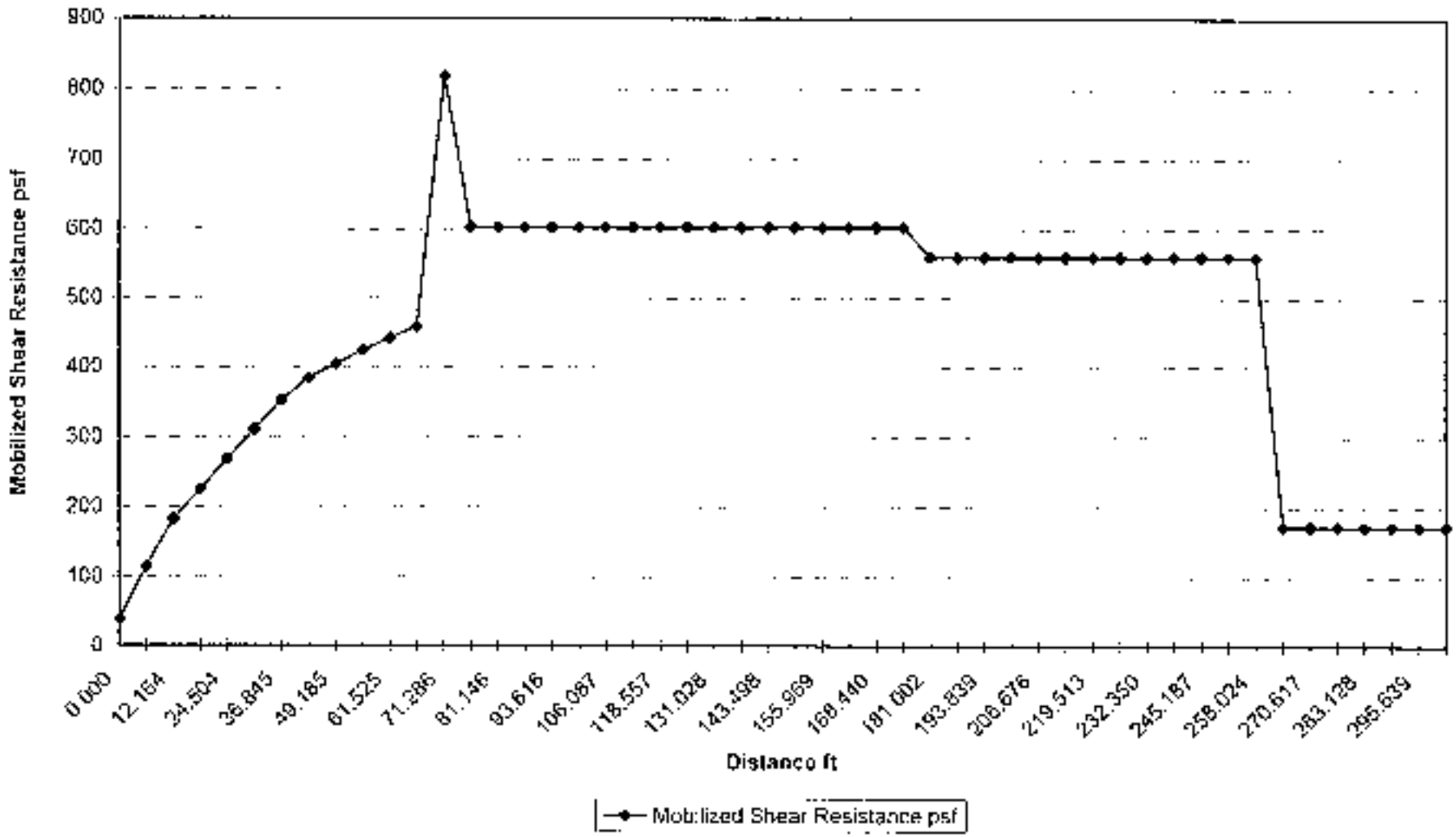
-112 = The coefficient M Alpha = cos(alpha)/(1+tan(alpha)*tan(phi)/F) < 0.2 for the final iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis, in particular, deep seated slip surfaces with many high negative base angle slices in the passive zone.

-113 = Surface intersects outside slope limits.

-115 = Surface too shallow, below the minimum depth.

-1000 = No valid slip surfaces are generated at a grid center. Unable to draw a surface.

Section B-B, Final Grade, Undrained, Circular Analysis
spencer FS = 2.32
Radius (248) Center (167, 231)



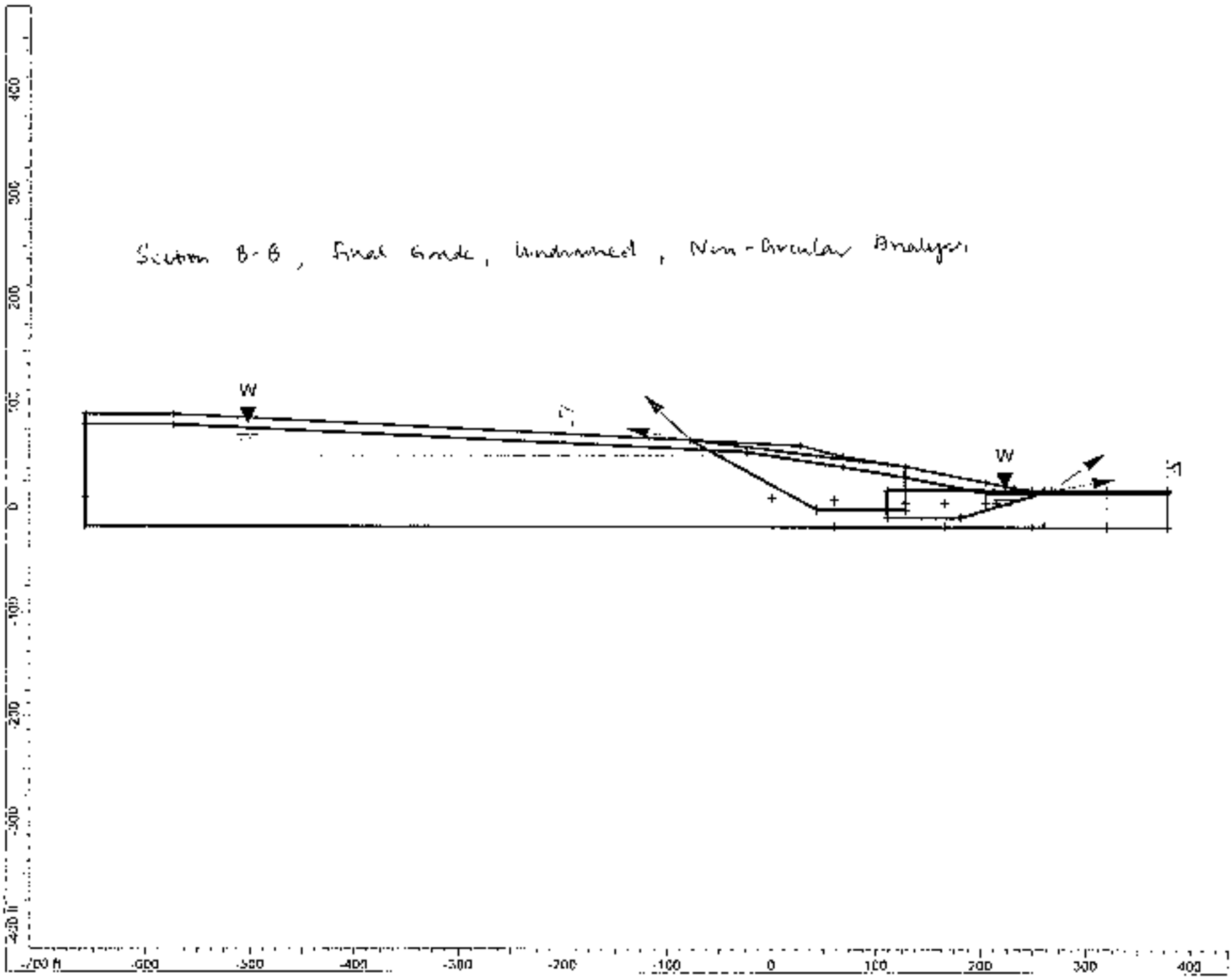
Written by: J.C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix H

Section B-B, Final Grade, Undrained, Non-Circular Analysis

Section B-B, Final Grade, Unarmored, Non-Circular Analysis



SB / L9

243
W
400
300
200
100
0
-100
-200 m
0
100
200
300
400

Slide Analysis Information

Document Name

File Name: pb_final_short_nonsiccu.ai

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Bulk with Water Surfaces in Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller 3

Analysis Methods

Analysis Methods used:
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Non-Circular Block Search
Number of Surfaces: 5000
Pseudo-Random Surfaces: Enabled
Convex Surfaces Only: Enabled
Left Projection Angle (Start Angle): 135
Left Projection Angle (End Angle): 115
Right Projection Angle (Start Angle): 10
Right Projection Angle (End Angle): 35

Material Properties

Material: Sludge
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Waste
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Alluvium 1
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1300 psf
Water Surface: None

Material: Alluvium 2
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1400 psf
Water Surface: None

Material: Alluvium 3
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 1300 psf
Water Surface: None

Material: Alluvium 4
Strength Type: Undrained
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Cohesion Type: Constant
Cohesion: 400 psf
Water Surface: None

Global Minimums

Method: spencer
FS: 2.425790
Axis Location: 152.791, 325.030
Left Slip Surface Endpoint: -25.080, 63.194
Right Slip Surface Endpoint: 243.337, 17.625
Resisting Moment: 0.7250 to +0.07 lb-ft

Driving Moment=2.77[illegible]e+00[illegible] lb
Resisting Horizontal Force=[illegible] lb
Driving Horizontal Force=84[illegible] lb

Valid / Invalid Surfaces

Method: Surfaces
Number of Valid Surfaces: 4[illegible]
Number of Invalid Surfaces: 203
Error Codes:
Error Code -105 reported for 1 surface
Error Code -107 reported for 15 surfaces
Error Code -108 reported for 200 surfaces
Error Code -111 reported for 24 surfaces
Error Code -112 reported for 34 surfaces

Error Codes

The following errors were encountered during the computation:

-105 = More than two surface / slope intersections with no valid slip surface

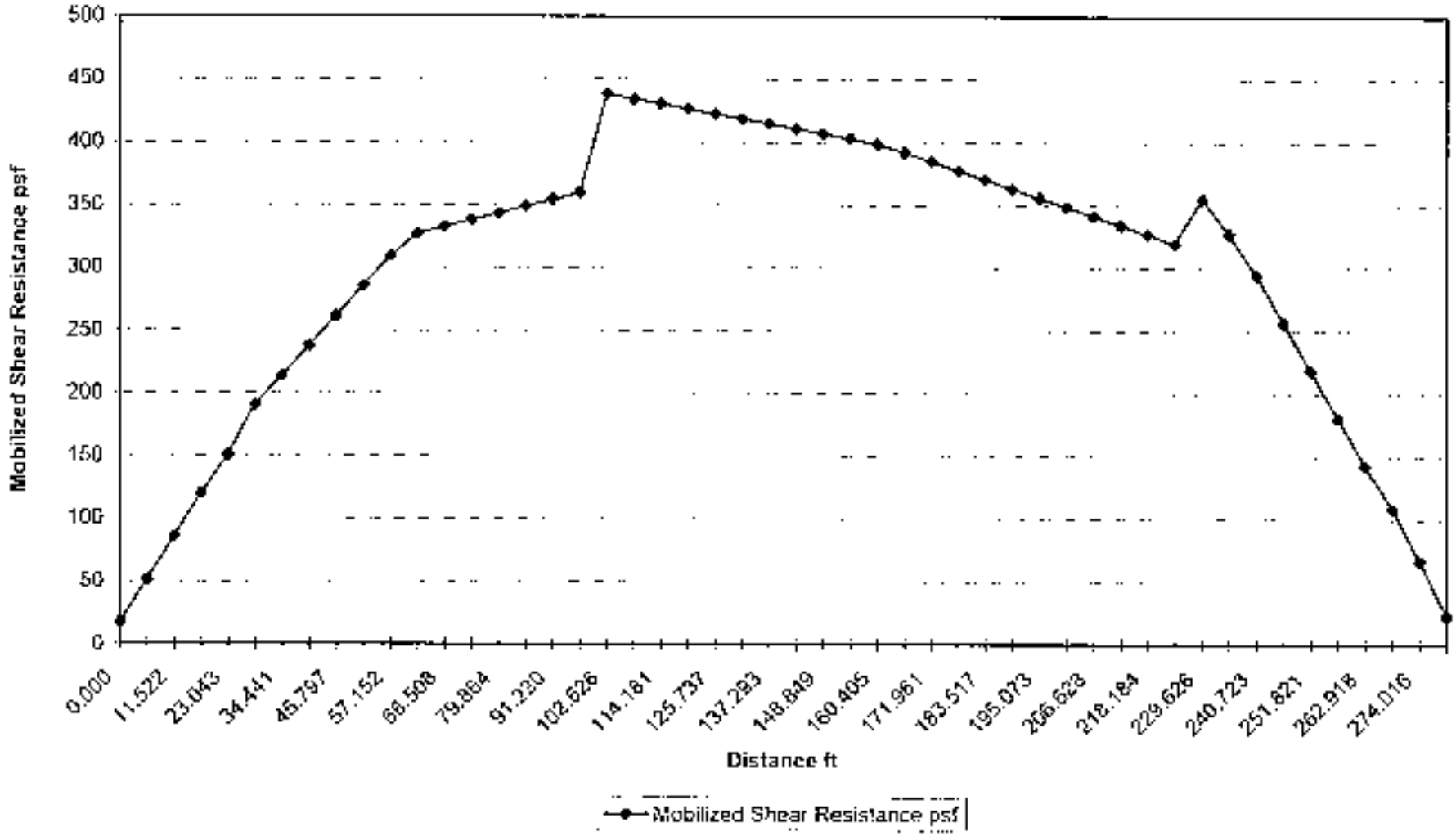
-107 = Total driving moment or total driving force is negative. This will occur if the wrong failure direction is specified, or if high external or anchor loads are applied against the failure direction

-108 = Total driving moment or total driving force < 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 is an arbitrary number)

-111 = safety factor equation did not converge

-112 = The coefficient of [illegible] < 0.2 for the final iteration of the safety factor calculation. This arises not some slip surfaces which may not be valid in the context of the analysis, in particular, deep sealed slip surfaces with many high negative base angle [illegible] in the passive zone

Section B-B, Final Grade, Undrained, Non-Circular Analysis
spencer FS = 2.43
Radius (322) Center (152, 327)



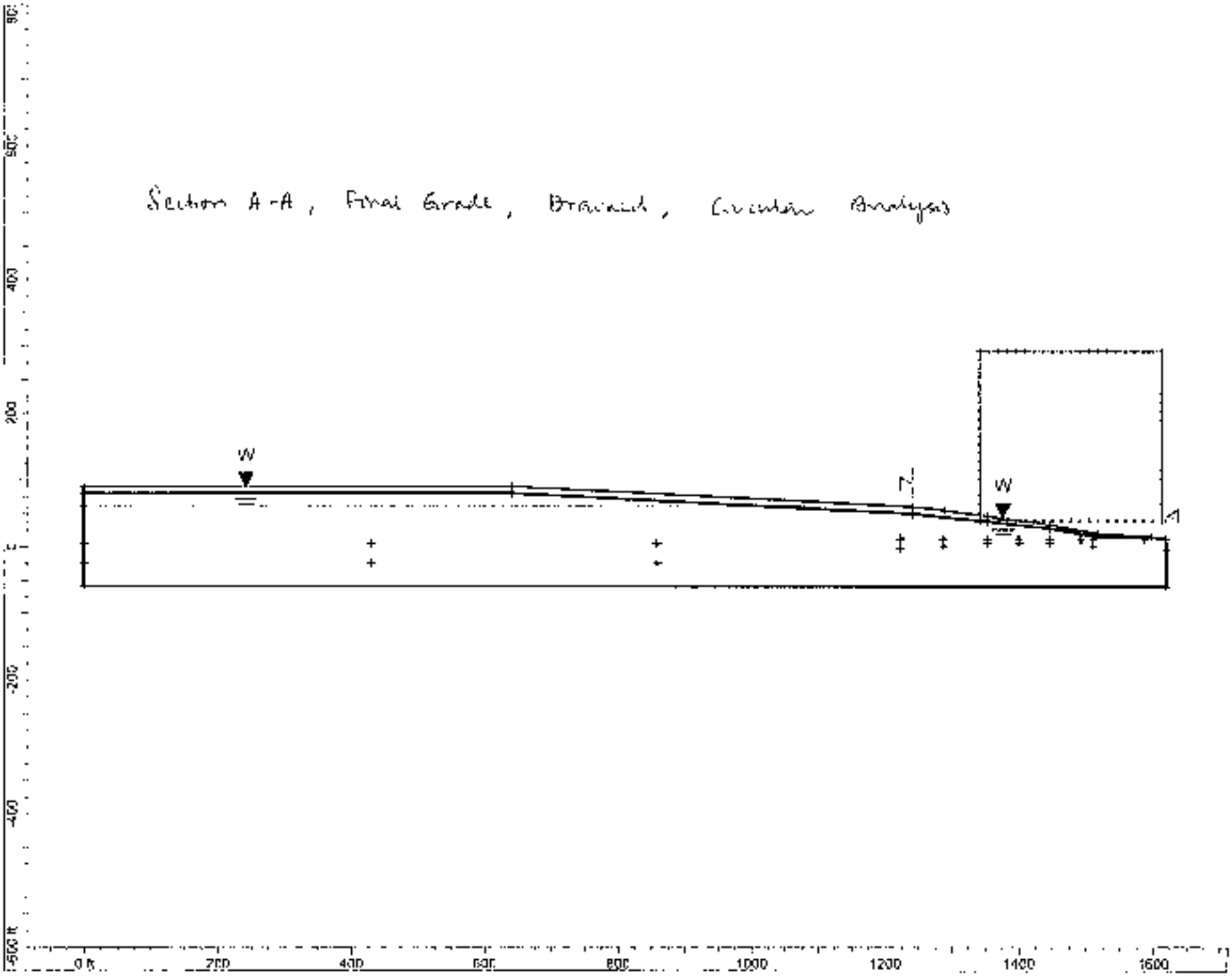
Written by: J.C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

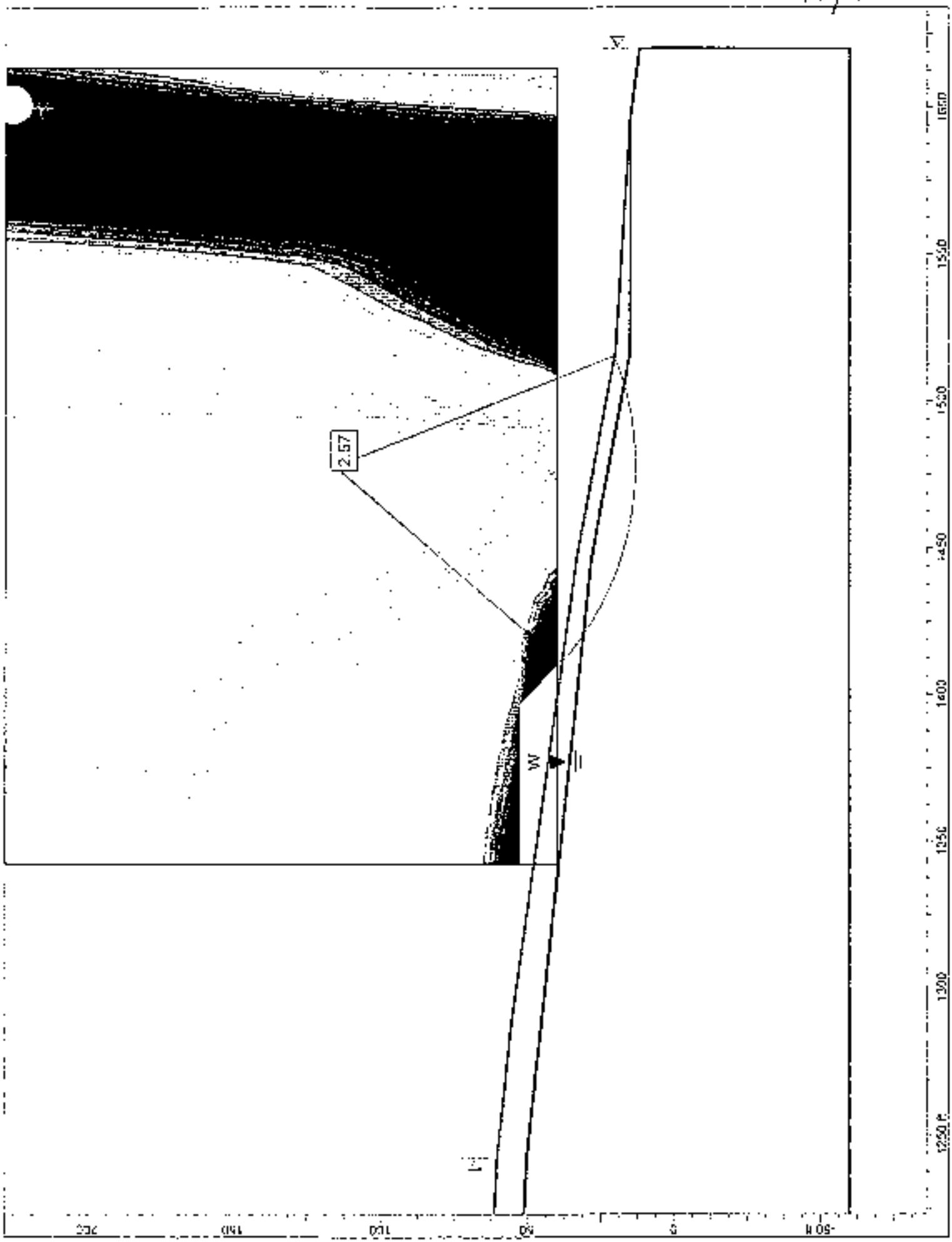
Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix I

Section A-A, Final Grade, Drained, Circular Analysis

Section A-A, Final Grade, Braided, Circular Analysis




2.57
W
1650
1550
1500
1450
1400
1350
1300
1250 ft
-50 ft
0
50
100
150
200

Slide Analysis Information

Document Name

File Name: [illegible]

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Through Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 15119
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius increment: 50
Minimum Elevation: Not Defined
Composite Surfaces: Disabled
Reverse Curvature: Create Tension Crack

Material Properties

Material: Sludge
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 10 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Waste

Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 10 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Sand
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 100 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Alluvium/Fill
Strength Type: Shear Normal function
Unsaturated Unit Weight: 95 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Water Surface: Water Table
Custom Hu value: 1

Global Minimums

Method: spencer
FS: 3.569700
Center: 1477.055, 115.457
Radius: 102.414
Left Slip Surface Endpoint: 1410.501, 37.593
Right Slip Surface Endpoint: 1515.564, 20.267
Resisting Moment: 4.0733e+006 lb-ft
Driving Moment: 1.5851e+006 lb-ft
Resisting Horizontal Force: 35085 lb
Driving Horizontal Force: 14621 lb

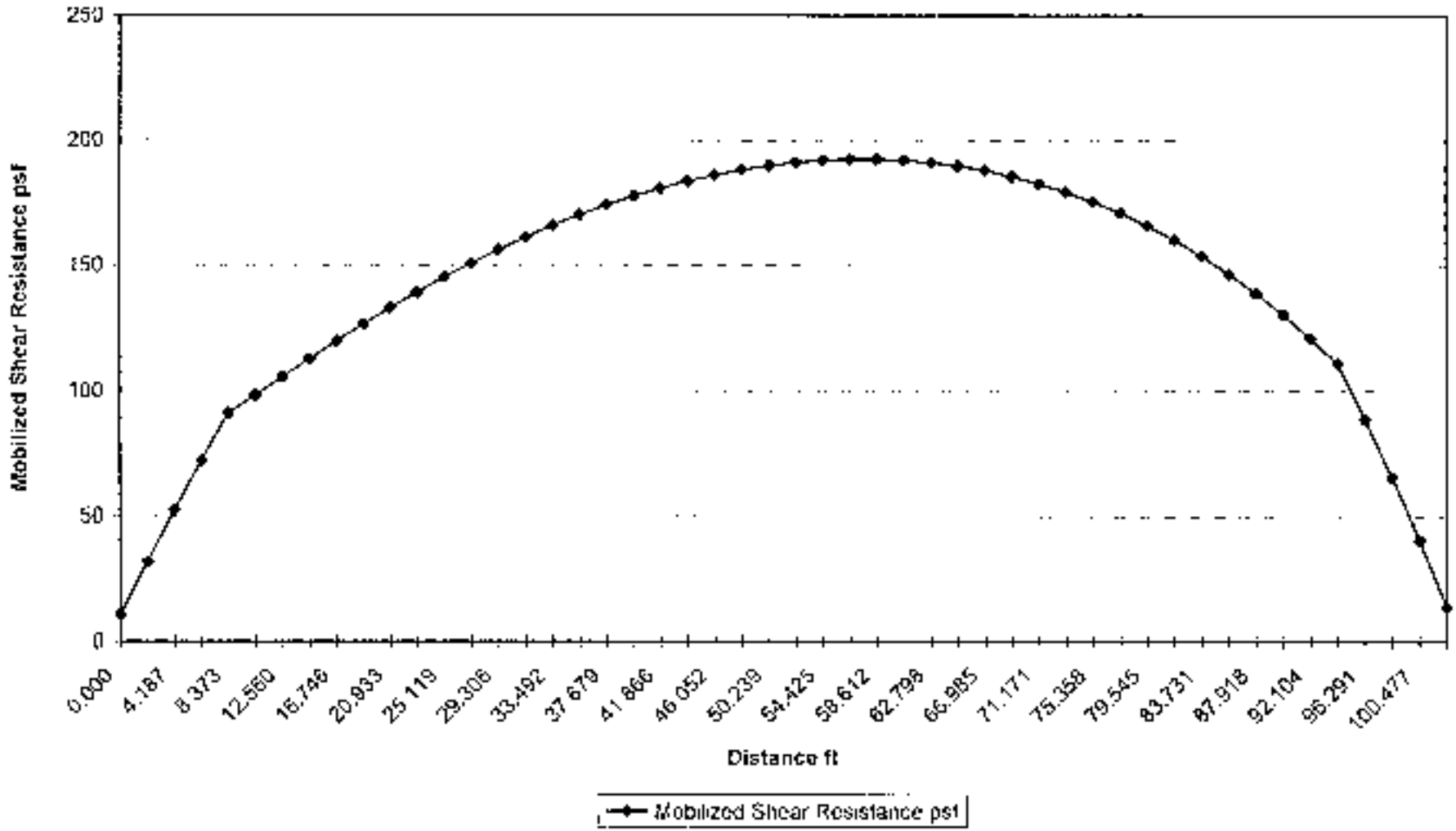
Valid / Invalid Surfaces

Method: Invalid
Number of Valid Surfaces: 20553
Number of Invalid Surfaces: 1028
Error Codes
Error Code -103 reported for 717 surfaces
Error Code -106 reported for 36 surfaces
Error Code -111 reported for 1027 surfaces
Error Code -112 reported for 153 surfaces

Error Codes

The following errors were encountered during the computation

Section A-A, Final Grade, Drained , Circular Analysis
spencer FS = 2.57
Radius (102) Center (1478, 115)



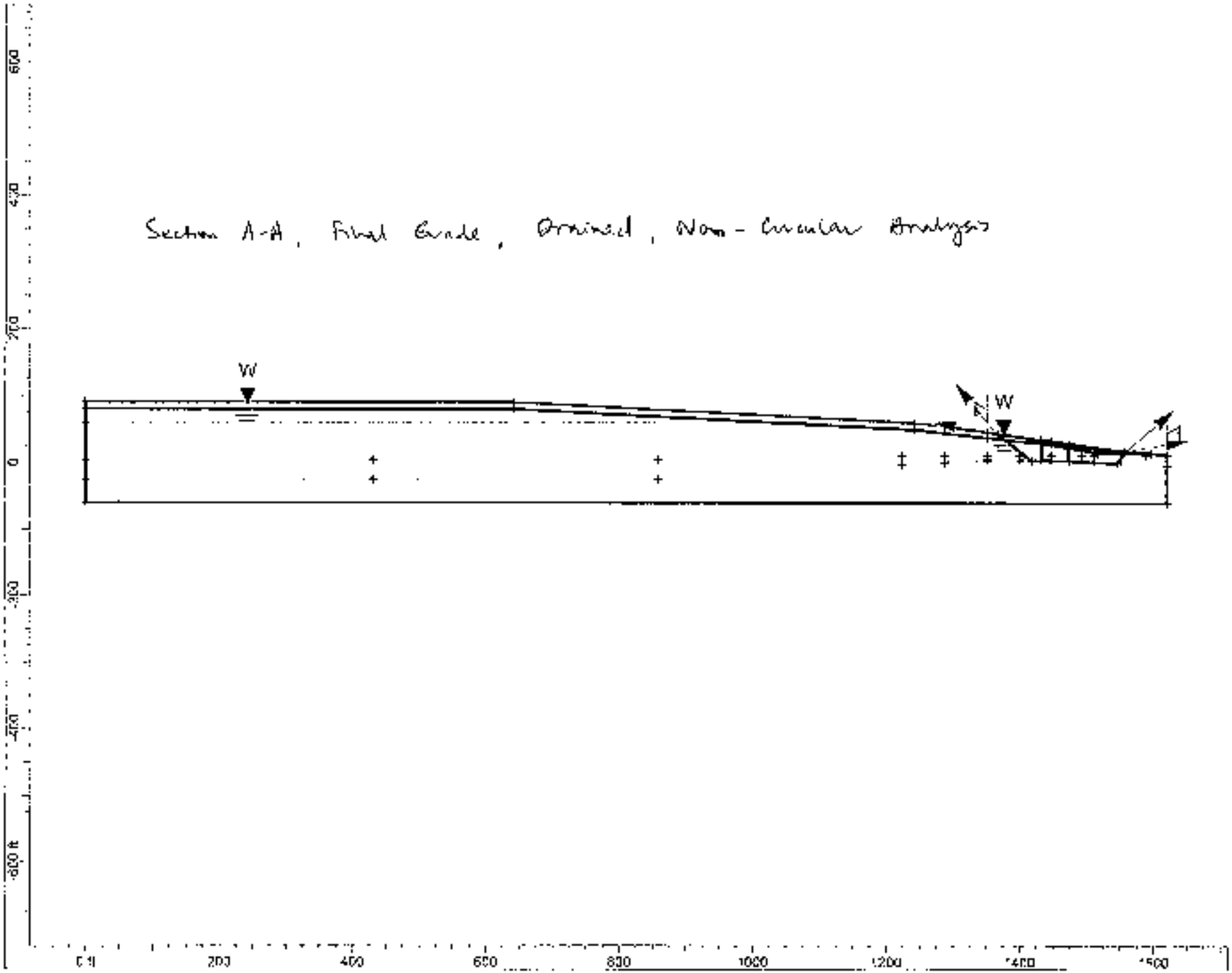
Written by: J.C.Wong Date 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

Client: DSWA Project: PPL Project/Proposal No.: ME0414 Task No.: 6

Appendix J

Section A-A, Final Grade, Drained, Non-Circular Analysis

Section A-A, Final Grade, Drained, Non-Circular Analysis



2.65
1600
1550
1500
1450
1400
1350
1300
-100
-50
0
50
100
150
200

Slide Analysis Information

Document Name

File Name: na_final_long_nocsacu.ar.nl

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Boundary Water Surfaces or Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10155
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Non-Circular Block Search
Number of Surfaces: 5000
Pseudo Random Surfaces: Enabled
Convex Surfaces Only: Disabled
Left Projection Angle (Start Angle): 100
Left Projection Angle (End Angle): 170
Right Projection Angle (Start Angle): 10
Right Projection Angle (End Angle): 40

Material Properties

Material: Sludge
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 33 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Waste
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 33 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Sand
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 120 lb/ft3
Saturated Unit Weight: 130 lb/ft3
Cohesion: 0 psf
Friction Angle: 40 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Alluvium (ind)
Strength Type: Shear Normal function
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Water Surface: Water Table
Custom Hu value: 1

Global Minimums

Method: spencer
FS: 2.064340
Axis Location: 1478.088, 147.652
Left Slip Surface Endpoint: 1399.557, 39.501
Right Slip Surface Endpoint: 1517.442, 39.972
Resisting Moment: 5.51563e+005 lb-ft
Driving Moment: 2.10772e+005 lb-ft
Resisting Horizontal Force: 40541 lb
Driving Horizontal Force: 15216.2 lb

Valid / Invalid Surfaces

Method: spencer
Number of Valid Surfaces: 4357
Number of Invalid Surfaces: 643
Error Codes:
Error Code -105 reported for 3 surfaces
Error Code -107 reported for 14 surfaces
Error Code -108 reported for 525 surfaces
Error Code -111 reported for 69 surfaces
Error Code -112 reported for 20 surfaces

Error Codes

The following errors were encountered during the computation:

-105 = More than two surface / slope intersections with no valid slip surface

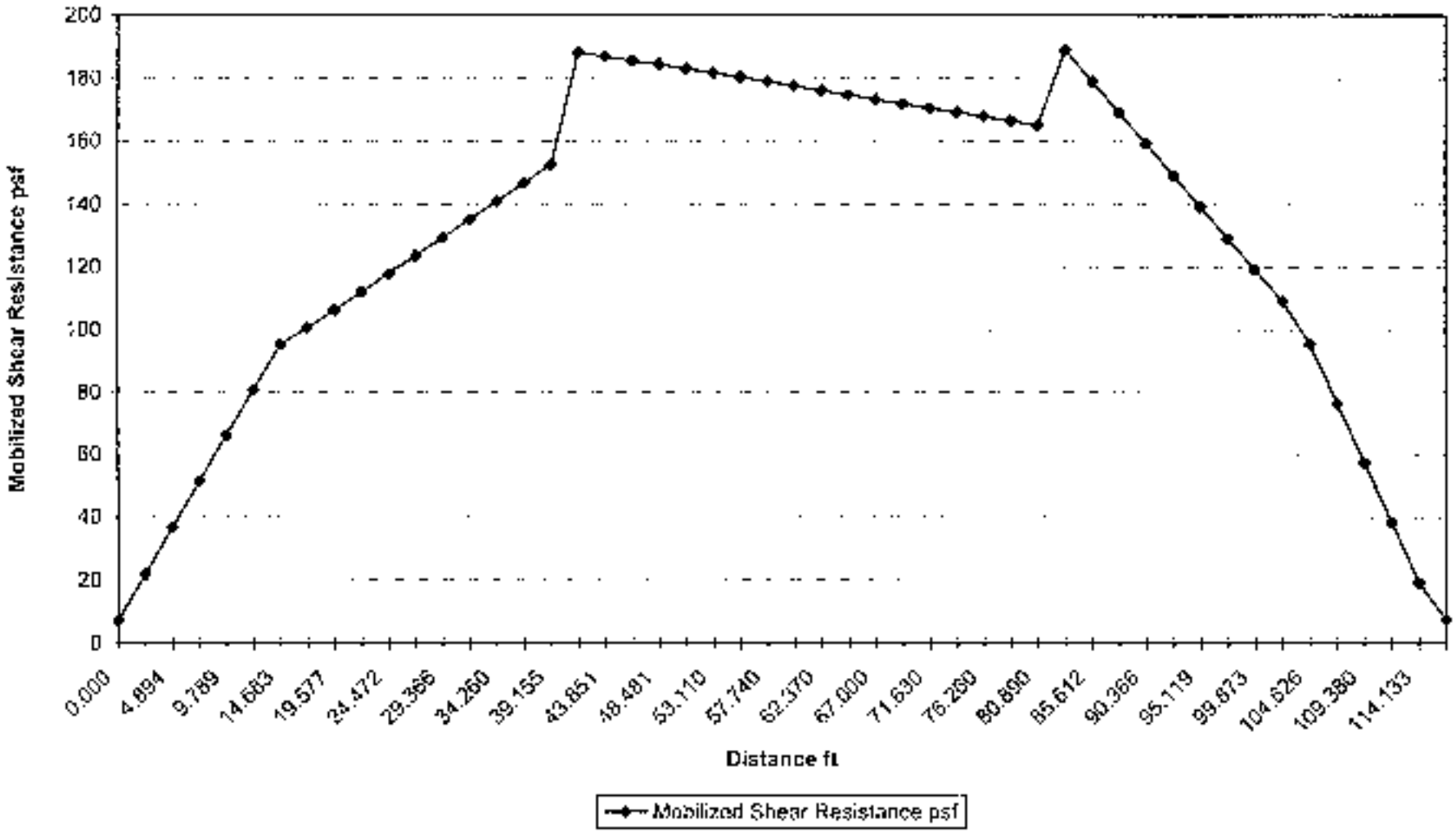
-107 = Total driving moment or total driving force is negative. This will occur if the wrong failure direction is specified, or if high external or anchor loads are applied against the failure direction

-108 = Total driving moment or total driving force < 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 is an arbitrary number)

-111 = safety factor equation did not converge

-112 = The coefficient M (Aleha = cos(alpha)[1+tan(alpha)tan(phi)/F]) < 0.2 for the final relation of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis. In particular, deep coated slip surfaces with many high negative base angle slices in the passive zone

Section A-A, Final Grade, Drained, Non-Circular Analysis
spencer FS = 2.66
Radius (134) Center (1478, 148)



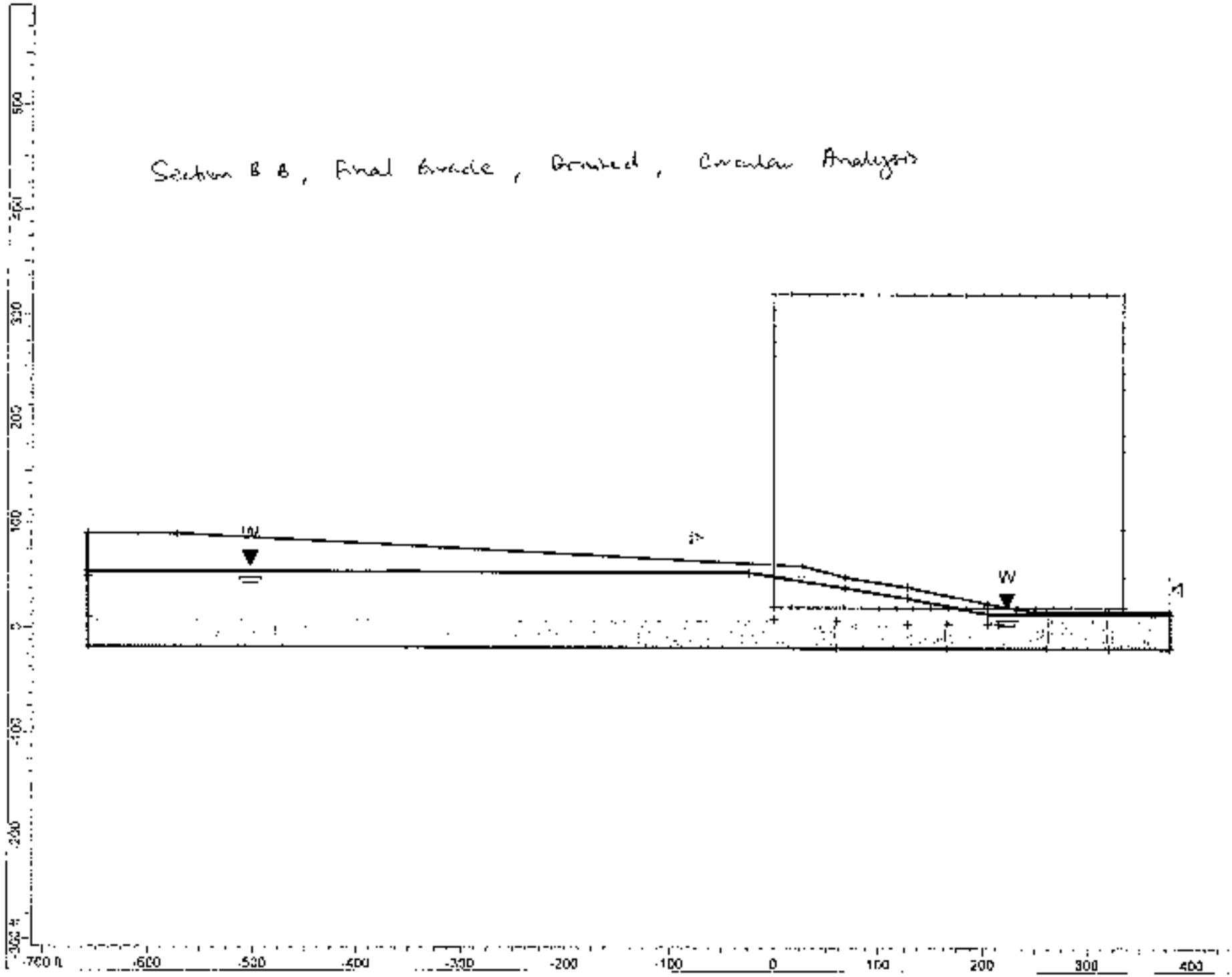
Written by: J.C. Wong Date: 3/17/05 Reviewed by: D. Espinoza Date: 3/17/05

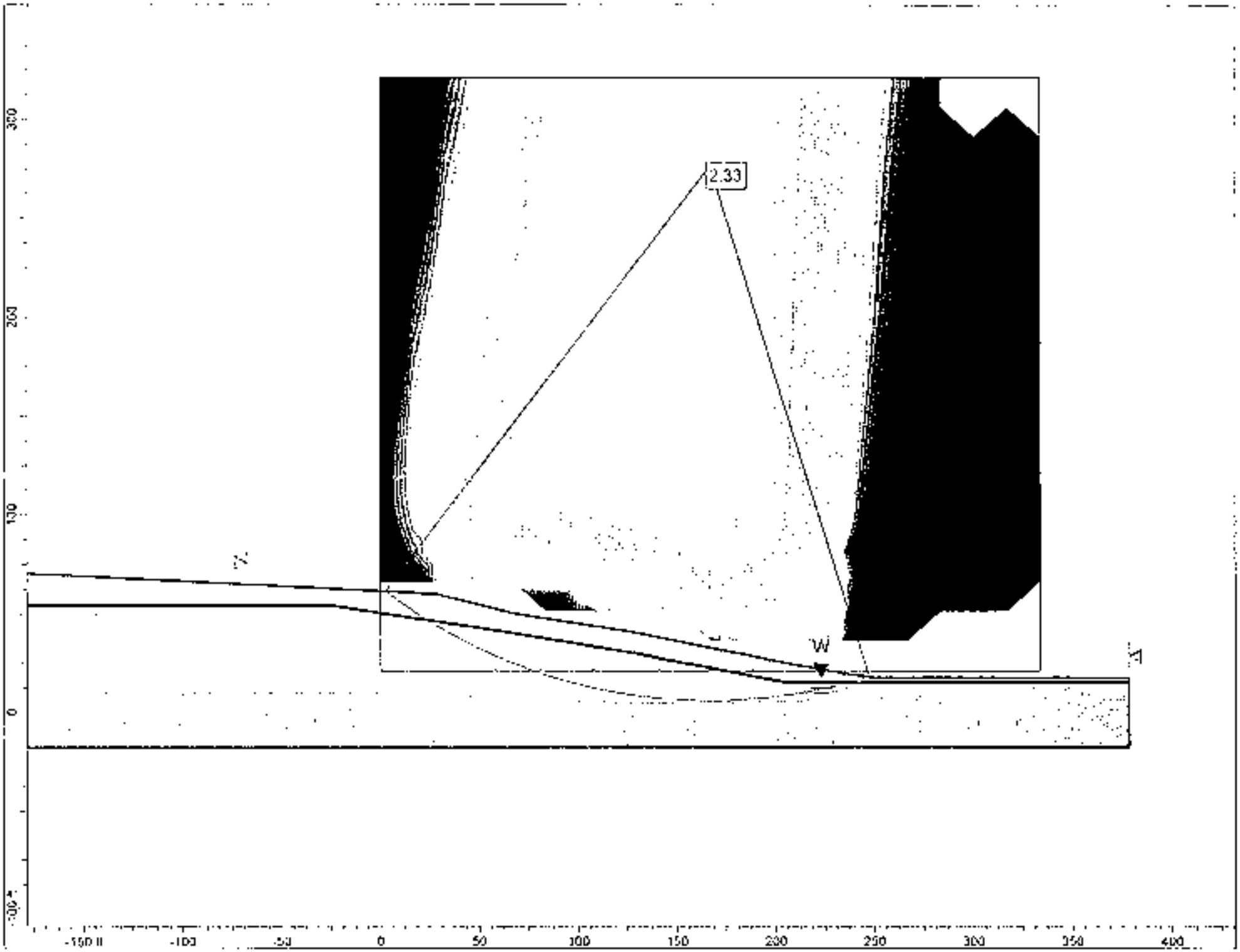
Client: DSWA Project: PPL Project/Proposal No.: M90414 Task No.: 6

Appendix K

Section B-B, Final Grade, Drained, Circular Analysis

Section B B, Final Grade, Grouted, Circular Analysis




2.33
300
200
100
0
-100
-150
-100
-50
0
50
100
150
200
250
300
350
400

Slide Analysis Information

Document Name

File Name: fs_final_key_0.slim.slk

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Force Unit/Unit Weight: kip/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Excess Pore Pressure: Off
Allow Automatic Water Surfaces to Cross: On
Random Numbers: Pseudo-random Seed
Random Number Seed: 10116
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Circular
Radius Increment: 50
Minimum Elevation: -10
Composite Surfaces: Disabled
Pseudo-Curvature: Circle Through Origin

Material Properties

Material: Sand
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 70 lb/ft3
Saturated Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: Water Table
Custom Hydrology: 1

Material: Weak

Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 115 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 32 degrees
Water Surface: Water Table
Custom Hydrology: 1

Material: Bedrock
Strength Type: Shear Normal Function
Unsaturated Unit Weight: 95 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Water Surface: Water Table
Custom Hydrology: 1

Global Minimums

Method: spencer
FS: 2.324406
Center: 199.695, 316.304
Radius: 230.559
Left Slip Surface Endpoint: 3.695, 61.278
Right Slip Surface Endpoint: 347.780, 97.005
Resisting Moment: 4.93239e+007 lb-ft
Driving Moment: 2.12265e+007 lb-ft
Resisting Horizontal Force: 175438 lb
Driving Horizontal Force: 75503.2 lb

Valid / Invalid Surfaces

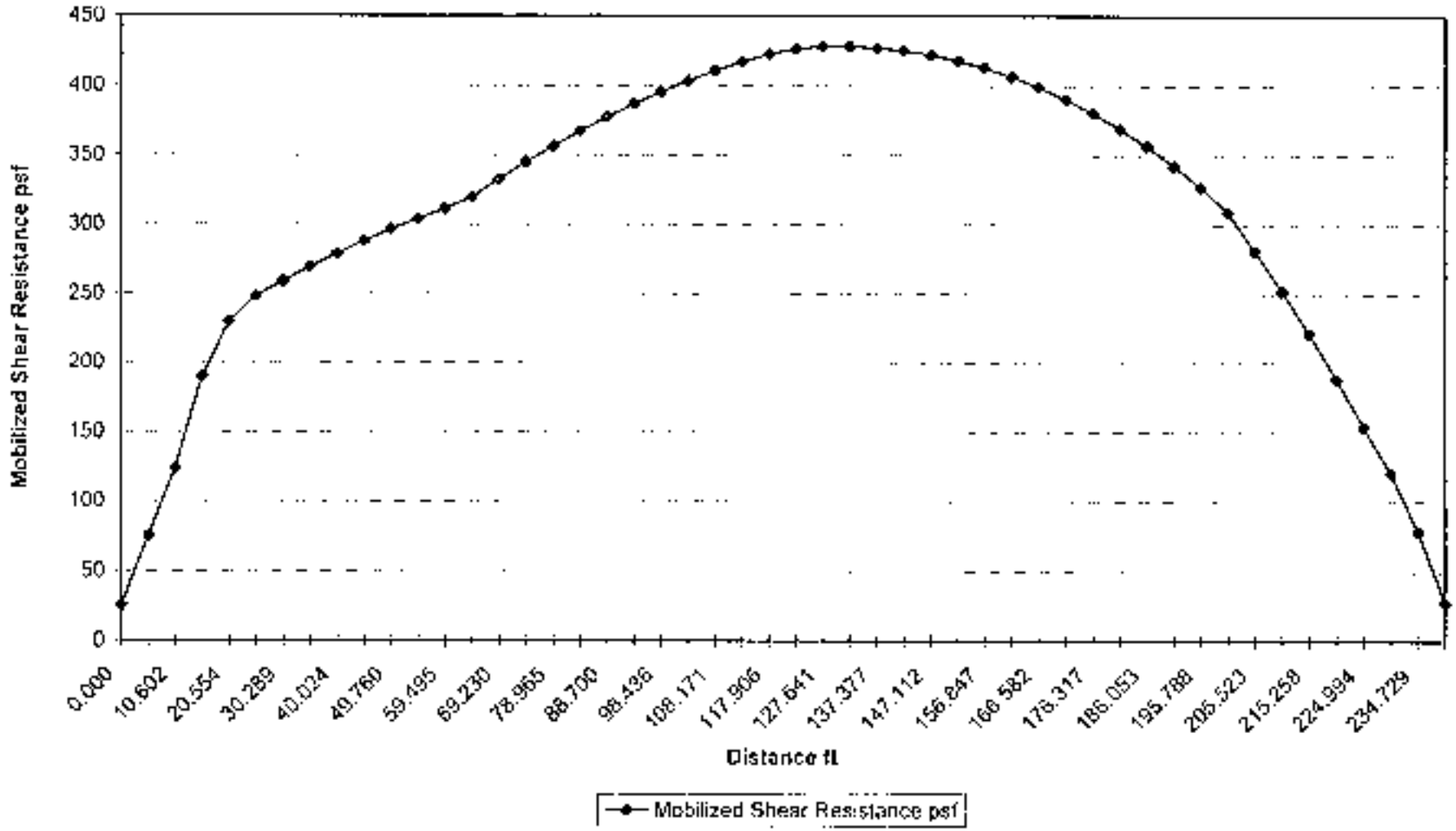
Method: spencer
Number of Valid Surfaces: 19417
Number of Invalid Surfaces: 3274
Error Codes:
Error Code -103 reported for 193 surfaces
Error Code -108 reported for 418 surfaces
Error Code -111 reported for 1108 surfaces
Error Code -112 reported for 934 surfaces
Error Code -113 reported for 4 surfaces
Error Code -1000 reported for 357 surfaces

Error Codes

The following errors were encountered during the computation:

-103 = Two surface - slope intersections, but complex slope surface has no polygon intersections between them. This usually occurs when the slip surface extends past the bottom of the slope, but may also occur on a benched slope model with two sets of Slope Limits.

Section B-B, Final Grade, drained, Circular Analysis
spencer FS = 2.33
Radius (271) Center (167, 276)

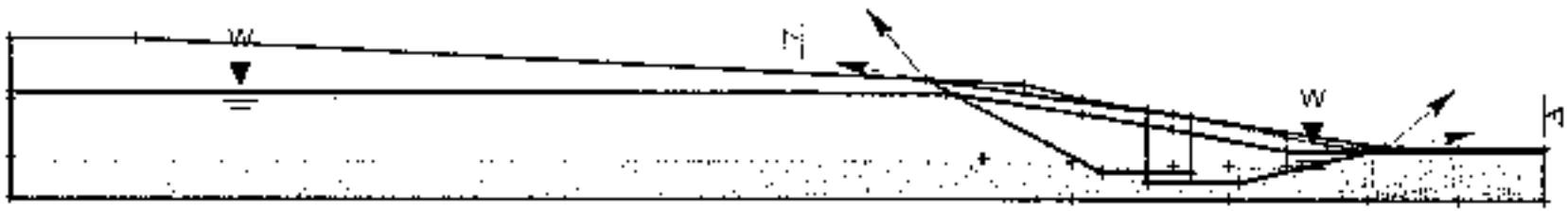


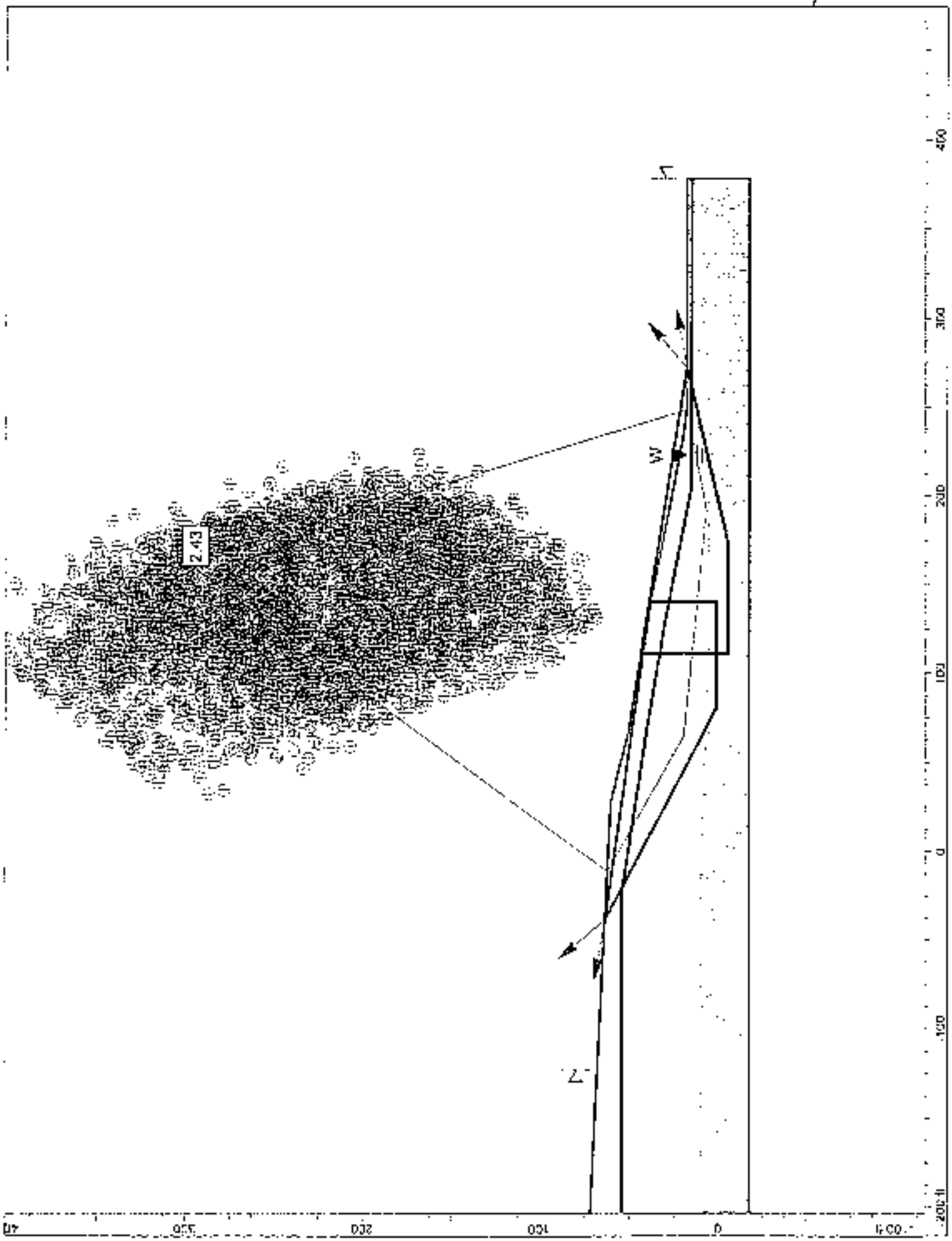
Written by:	J C Wong	Date:	3/17/05	Reviewed by:	D. Espinoza	Date:	3/17/05
Client:	DSWA	Project:	PPL	Project/Proposal No.:	ME0414	Task No.:	6

Appendix L

Section B-B, Final Grade, Drained, Non-Circular Analysis

Section B-B, Final Grade, Braced, Non-Circular Analysis




2.43
W
400
300
200
100
0
-100
-200

Slide Analysis Information

Document Name

File Name: [illegible]

Project Settings

Project Title: SLIDE - An Interactive Slope Stability Program
Failure Direction: Left to Right
Units of Measurement: Imperial Units
Pore Fluid Unit Weight: 62.4 lb/ft3
Groundwater Method: Water Surfaces
Data Output: Standard
Calculate Negative Pore Pressure: Off
Allow Ruling Water Surfaces in Grids: Off
Random Numbers: Pseudo-random Seed
Random Number Seed: 10115
Random Number Generation Method: Park and Miller v.3

Analysis Methods

Analysis Methods used
Spencer

Number of slices: 50
Tolerance: 0.005
Maximum number of iterations: 50

Surface Options

Surface Type: Non-Circular Block Search
Number of Surfaces: 5000
Pseudo-Random Surfaces: Enabled
Convex Surfaces Only: Disabled
Left Projection Angle (Start Angle): 130
Left Projection Angle (End Angle): 170
Right Projection Angle (Start Angle): 10
Right Projection Angle (End Angle): 40

Material Properties

Material: Sludge
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 20 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Waste
Strength Type: Mohr-Coulomb
Unsaturated Unit Weight: 75 lb/ft3
Saturated Unit Weight: 100 lb/ft3
Cohesion: 0 psf
Friction Angle: 33 degrees
Water Surface: Water Table
Custom Hu value: 1

Material: Alternative
Strength Type: Shear Normal function
Unsaturated Unit Weight: 85 lb/ft3
Saturated Unit Weight: 97 lb/ft3
Water Surface: Water Table
Custom Hu value: 1

Global Minimums

Method: spencer
FS: 2.429532
Axis Location: 162.013, 299.327
Left Slip Surface Endpoint: 111.118, 61.992
Right Slip Surface Endpoint: 241.352, 12.260
Resisting Moment=5.426[illegible]e+007 lb-ft
Driving Moment=2.23333e+007 lb-ft
Resisting Horizontal Force=180235 lb
Driving Horizontal Force=74192.0 lb

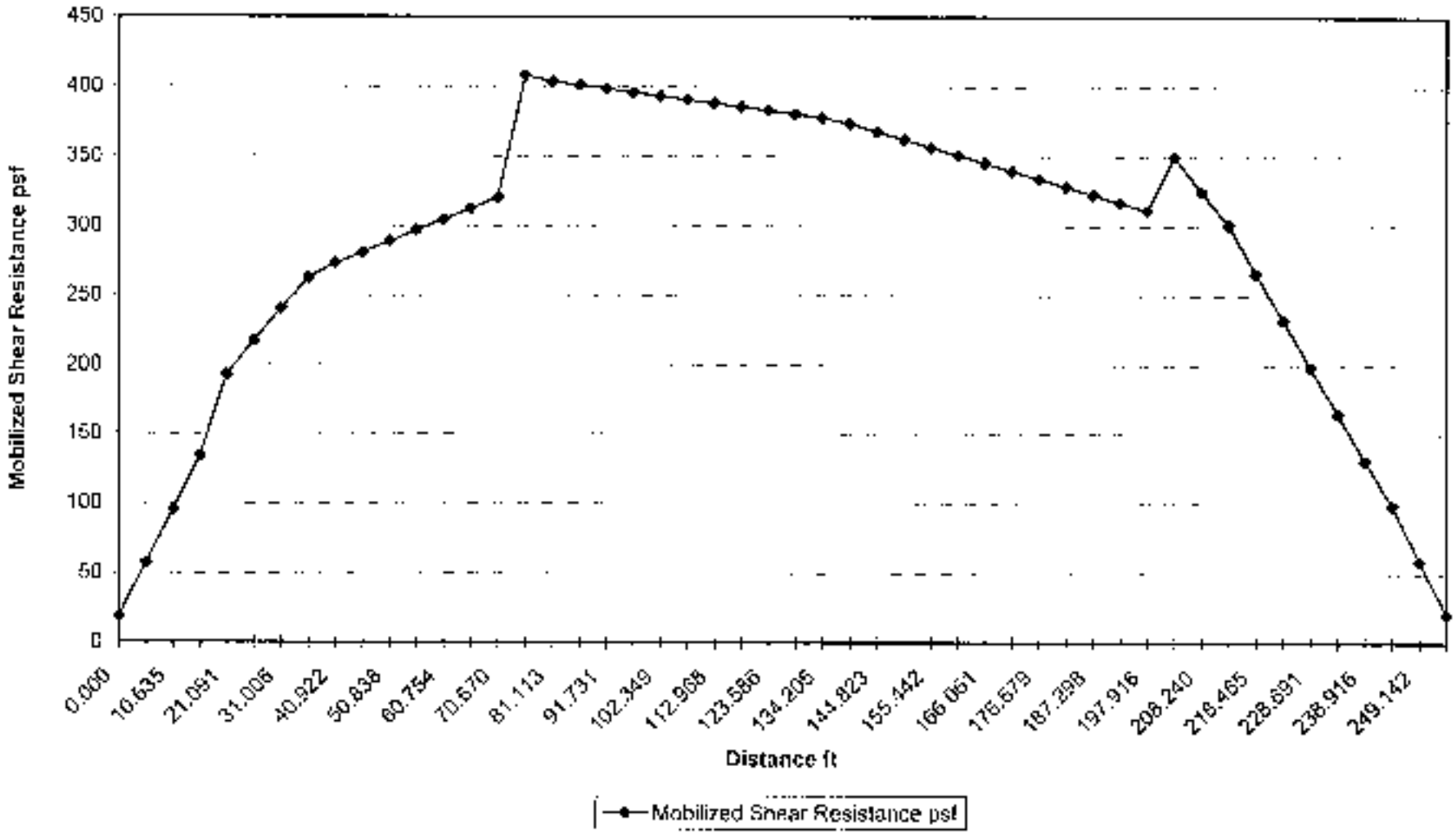
Valid / Invalid Surfaces

Method: spencer
Number of Valid Surfaces: 4400
Number of Invalid Surfaces: 570
Error Codes
Error Code -105 reported for 2 surfaces
Error Code -107 reported for 4 surfaces
Error Code -108 reported for 412 surfaces
Error Code -111 reported for 67 surfaces
Error Code -112 reported for 35 surfaces

Error Codes

The following errors were encountered during the computation

-105 = More than two surface / slope intersections with no valid slip surface

-107 = Total driving moment or total driving force is negative. This will occur

Section B-B, Final Grade, Drained, Non-Circular Analysis
spencer FS = 2.43
Radius (295) Center (163, 299)