

T.C.
SAKARYA ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ

**SU ALTI MÜHENDİSLİK YAPILARINDA
KULLANILAN ZEMİN İYİLEŞTİRME YÖNTEMLERİ
VE MARMARAY PROJESİ ÖRNEĞİ**

YÜKSEK LİSANS TEZİ

İnş.Müh. F.Zeynep ÇINAR

Enstitü Anabilim Dalı : İNŞAAT MÜHENDİSLİĞİ

Enstitü Bilim Dalı : GEOTEKNİK

Tez Danışmanı : Prof. Dr. Zeki GÜNDÜZ

Eylül 2009

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Bu tez 11/09/2009 tarihinde aşağıdaki jüri tarafından Oybirliği ile kabul edilmiştir.


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TEŐEKKÜR

Öncelikle en önemli varlık sebeplerimden ve zor günlerimde yanımda olan aileme, bu tez konusunu seçmem konusunda beni yönlendiren ve bu tezin hazırlanmasında bana destek olan Sakarya Üniversitesi öğretim üyesi ve tez danışmanım Sn. Prof.Dr. Zeki GÜNDÜZ'e tüm içtenliğim ile teşekkür ederim.

Yüksek Lisans ve tez çalışmam boyunca bilgi ve tecrübesinden faydalandığım, bu bilgi ve tecrübesine her zaman ihtiyaç duyacağım DLH Marmaray Bölge Müdürü Sn İbrahim Haluk Özmen, İnşaat Mühendisi Sn. Ayşe İsmet Erdemci, Sn.Öztürk Özgür'e ile tüm mesai arkadaşlarıma teşekkür ederim.

İÇİNDEKİLER

TEŞEKKÜR.....	ii
İÇİNDEKİLER.....	iii
SİMGELER VE KISALTMALAR LİSTESİ.....	vi
ŞEKİLLER LİSTESİ.....	vii
TABLolar LİSTESİ.....	x
ÖZET.....	xi
SUMMARY.....	xii
BÖLÜM 1.	
GİRİŞ.....	1
BÖLÜM 2.	
YAPILMIŞ OLAN ÖNCEKİ ÇALIŞMALAR.....	3
BÖLÜM 3.	
PROBLEMLİ ZEMİNLER İÇİN UYGUN ÇÖZÜMLER	6
3.1. Zemin İyileştirme Kavramının Ortaya Çıkışı.....	6
3.2. Sualtı Mühendislik Yapılarında Zemin İyileştirme Gereksinimleri	7
3.3. Sualtında İnşa Olunan Yapılarda Problemlili Zeminlerin	
İyileştirilmesi ve Uygulanması.....	8
3.3.1. Kompaksiyon enjeksiyonu.....	9
3.3.2. Jet enjeksiyonlama.....	13
3.3.3. Çimento enjeksiyonlama.....	15
3.4. Su Altında İnşa Olunan Yapılarda Sıvılaşma Potansiyelinin	
Belirlenmesinde Kullanılan Arazi Deneyleri.....	18
3.4.1. Standart penetrasyon deneyi.....	19

3.4.2. Koni penetrasyon deneyi.....	20
3.4.3. Kayma dalgası hızı deneyi.....	20
BÖLÜM 4.	
4.1. Sıvılaştırma.....	23
4.2. NCEER Çalışma Grubu Kriterlerine Göre Sıvılaştırma Analizi.....	24
4.3. İyileştirme Öncesi CPT Sonuçlarına Göre Sıvılaştırma ve Oturma Analizi.....	30
4.3.1. Sıvılaştırma ve oturma analizi için seçilen sondaj logları.....	32
4.3.1.1. BH 4 Sondaj logu sıvılaştırma ve oturma değerlendirmesi.....	32
4.3.1.2. BH 5 Sondaj logu sıvılaştırma ve oturma değerlendirmesi.....	34
4.3.1.3. BH 49 Sondaj logu sıvılaştırma ve oturma değerlendirmesi.....	36
4.3.1.4. BH 50 Sondaj logu sıvılaştırma ve oturma değerlendirmesi.....	38
4.4. Proje Kapsamında Kompaksiyon Enjeksiyon Yönteminin İşleyişi..	40
4.4.1. Beton işleri.....	43
4.4.2. Delme işlemi.....	46
4.4.3. Enjeksiyonlama.....	47
4.4.4. Malzeme.....	53
4.4.4.1. Özel agrega.....	53
4.4.4.2. Çimento.....	55
4.4.4.3. Karışım suyu.....	55
BÖLÜM 5.	
ZEMİN İYİLEŞTİRMESİ ETKİNLİĞİNİN DEĞERLENDİRİLMESİ.....	58
BÖLÜM 6.	
SONUÇLAR VE ÖNERİLER.....	77
KAYNAKLAR.....	82

EKLER.....	84
ÖZGEÇMİŞ.....	236

SİMGELER VE KISALTMALAR LİSTESİ

a_{max}	: Maksimum yataydaki ivme
a_s	: İyileştirme Oranı
C_c	: Sıkışma indisi
CPG	: Kompaksiyon Enjeksiyon Yöntemi
CPT	: Koni Penetrasyon deneyi
CRR	: Çevrimsel yük mukavemeti
CSR	: Normalize edilmiş çevrimsel gerilme oranı
C_Q	: Üst tabaka yükü düzeltme katsayısı
D_r	: Rölatif sıklık derecesi
F	: Normalize edilmiş sürtünme oranı
F_c	: İnce dane oranı
f_s	: Sürtünme oranı
FSL	: Sıvılaşmaya karşı güvenlik katsayısı
I_c	: Zemin indeksi
n	: Zemin tipi ile değişiklik gösteren sabit
K_c	: Zeminin granüler yapısını ifade eden düzeltme katsayısı
N	: SPT vuruş sayısı
P_a	: 100 kPa'lık referans gerilmesi
r_d	: Gerilme azaltma katsayısı
Q	: Normalize edilmiş uç direnç
$Q_{uç}$: CPT uç dayanımı
SPT	: Standart Penetrasyon deneyi
V_s	: Kayma dalga hızı
V_{ts}	: İyileştirilen Zeminin Hacmi
γ	: Çevrimsel kayma birim şekil değişme genliği
ρ	: Birim ağırlık

- σ_v : Efektif gerilme
 σ_v' : Düşey efektif gerilme
 g : Yerçekimi ivmesi

ŞEKİLLER LİSTESİ

Şekil 3.1.	Sıvılaşma sonucu hasar gören köprü.....	8
Şekil 3.2.	Kompaksiyon enjeksiyonu karışımındaki kum için öngörülen dane çapı dağılım aralığı.....	10
Şekil 3.3.	Plan Görünüş.....	11
Şekil 3.4.	Düşük slump değerini sağlayan beton malzemesi.....	12
Şekil 3.5.	Aşağıdan yukarıya ve yukarıdan aşağıya gerçekleştirilme işlemi.	13
Şekil 3.6.	Jet enjeksiyon sistemleri.....	14
Şekil 4.1.	CPT sonuçlarına dayanan zemin davranış tipi seması	26
Şekil 4.2.	CPT Direncinin temiz kumlara uyarlanmasında zeminin granüler yapısı için kullanılan düzeltme katsayısı	28
Şekil 4.3.	CRR değerlerinin CPT verilerinden tahmini için önerilen abak ve ampirik sıvılaşma verileri.....	29
Şekil 4.4.	CPG alanları.....	31
Şekil 4.5.	BH 4 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri	32
Şekil 4.6.	BH 4 Sondaj logundaki oturma değerleri	33
Şekil 4.7.	BH 5 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri	34
Şekil 4.8.	BH 5 Sondaj logundaki oturma değerleri	35
Şekil 4.9.	BH 49 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri.....	36
Şekil 4.10.	BH 49 Sondaj logundaki oturma değerleri	37
Şekil 4.11.	BH 50 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri.....	38
Şekil 4.12.	BH 50 Sondaj logundaki oturma değerleri	39
Şekil 4.13.	Kompaksiyon enjeksiyonlama alanları	41
Şekil 4.14.	Tipik Tünel boy kesiti ve Kompaksiyon Enjeksiyon kazıklarının konumu.....	43

Şekil 4.15.	Beton işlerinin genel akışı.....	44
Şekil 4.16.	Enjeksiyonlama deliğinin enjeksiyon akış şeması.....	45
Şekil 4.17.	Tek Deliğin Delme ve Enjeksiyonlama İşi.....	46
Şekil 4.18.	Zemin iyileştirme çalışmalarını yapan Gemi (SARIII)	51
Şekil 4.19.	Waypoint gösterimi (M 12 noktası)	53
Şekil 4.20.	CPG’de kullanılan Doğal Kum Granülometri Eğrisi.....	54
Şekil 5.1.	A Bölgesi CPT sonuçları.....	59
Şekil 5.2.	B Bölgesi CPT sonuçları.....	60
Şekil 5.3.	C Bölgesi CPT sonuçları.....	61
Şekil 5.4.	D Bölgesi CPT sonuçları.....	62
Şekil 5.5.	E Bölgesi CPT sonuçları.....	63
Şekil 5.6.	F Bölgesi CPT sonuçları.....	64
Şekil 5.7.	G Bölgesi CPT sonuçları.....	65
Şekil 5.8.	H Bölgesi CPT sonuçları.....	66
Şekil 5.9.	I Bölgesi CPT sonuçları.....	67
Şekil 5.10.	J Bölgesi CPT sonuçları.....	68
Şekil 5.11.	K Bölgesi CPT sonuçları.....	69
Şekil 5.12.	L Bölgesi CPT sonuçları.....	70
Şekil 5.13.	M Bölgesi CPT sonuçları.....	71
Şekil 5.14.	N Bölgesi CPT sonuçları.....	72
Şekil 5.15.	O Bölgesi CPT sonuçları.....	73
Şekil 5.16.	P Bölgesi CPT sonuçları.....	74
Şekil 5.17.	Q Bölgesi CPT sonuçları.....	75

TABLolar LİSTESİ

Tablo 3.1.	Deniz Tabanı Zemin İyileştirme Yöntemleri Karşılaştırma Tablosu.....	17
Tablo 3.2.	Deneylerin karşılaştırılması.....	22
Tablo 4.1.	Kompaksiyon Deliğinin Enjeksiyonlanmasının Zaman Akış Programı.....	42
Tablo 4.2.	Grout Malzemesi Karşımı.....	54
Tablo 4.3.	Kompaksiyon Enjeksiyonlamanın Kabul Edilebilirlik Kriterleri...	57
Tablo 5.1.	CPT sonuçları değerlendirmesi.....	76

ÖZET

Anahtar kelimeler: Marmaray Tüp Geçit Projesi, Kompaksiyon Enjeksiyonlama, Sıvılaşma, CPT, Sıvılaşma, Oturma

Su altı mühendislik yapılarında (tünel, liman, iskele, köprü ayağı, vb.) karşılaşılan taşıma gücü düşük zeminlerde sıvılaşma potansiyelinin yapıya vereceği zarar vurgulanmıştır. Deniz tabanı sıvılaşmasını engellemek veya en az seviyeye düşürmek için iyileştirme yöntemlerine ihtiyaç duyulmaktadır.

Kompaksiyon enjeksiyonlama, Jet grout ve çimento enjeksiyonu gibi farklı deniz tabanını iyileştirmek için yöntemler bulunmaktadır. Bu yöntemler ayrıca birbiri ile olan farklılıklardan dolayı çeşitli kıstaslara değerlendirilmektedir

Bu çalışma da söz konusu deniz tabanı iyileştirme yöntemleri açıklanarak Marmaray Projesi boğaz geçişi kısmında uygulanan kompaksiyon enjeksiyon yönteminin yapılış ve uygulanış biçimi detaylı bir biçimde anlatılmıştır. Bu yöntemin uygulanabilirliği ve uygulamadaki başarısı Excel ortamında hazırlanmış bilgisayar programı ile yapılan kompaksiyon enjeksiyon yöntemine ait CPT verileri ile iyileştirme öncesi ve iyileştirme sonrası sıvılaşma oluşumunun varlığı değerlendirilmiştir

GROUND IMPROVEMENT METHODS USED IN UNDERSEA STRUCTURES AND EXAMPLE OF MARMARAY PROJECT

SUMMARY

Key words: Marmaray Tube Crossing Project, Compaction Injection, liquefaction, CPT, Liquefaction, Settlement

The present author dwells on the damage to the structure that might stem from potential liquefaction in ground surfaces load bearing capacity of which is low and which are encountered underwater engineering structures (tunnel, port, jetty, abutment, etc.). Improvement methods are required in order to prevent or minimize the liquefaction of seabed.

There are different methods to improve seabed such as compaction injection, jet grouting and cement injection. Those methods are also evaluated separately with various criteria because of their different characteristics.

In this study, related seabed improvement methods are described and implementation process of compaction injection method applied in Marmaray Project is explained in detail. Feasibility and successful application of the related method, CPT data for compaction injection method done via a computer program prepared in Excel medium and the existence of liquefaction formation before and after improvement are evaluated.

BÖLÜM 1. GİRİŞ

Su altında inşa olunan mühendislik yapılarında deniz tabanını iyileştirmeye yönelik çalışmaların amacı; deprem yükleri altında gerçekleşme olasılığı yüksek olan sıvılaşma potansiyelini engellemek ve zeminin taşıma kapasitesini arttırmaktır.

Zemin İyileştirme gereksiniminin ana sebebi olan zemin sıvılaşması, deprem durumunda geçici ve tekrarlı yüklerle yeraltı su seviyesi altındaki kumlu ve siltli zeminlerin boşluk suyu basıncının artmasına bağlı olarak mukavemet kaybı olarak adlandırılmaktadır.

Deniz tabanının sıvılaşması sonucu ise, deniz yapısı (tüp geçit, köprü ayakları, dalgakıran vb.) zemine batma veya hafif yapılarda yukarı doğru hareket ederek yüzme eğilimi gösterebilmektedir. Sıvılaşarak kayma dayanımı kaybolan deniz tabanında, yön değiştiren küçük kayma gerilmeleri büyük şekil değiştirmelerine sebep olmakta ve yapılarda zemin göçmesi hasarları meydana gelmektedir.

Deniz tabanının sıvılaşmasının belli başlı etkileri arasında, sırasıyla deprem esnasında ve sonrasında oluşan zeminin taşıma gücü kayıpları, oturmalar, şevli arazilerde yanal zemin ötelenmeleri deniz tabanına gömülü boru ve diğer servis hatlarının deformasyonları sayılabilir. Geçmişte Niigata ve Alaska (1964) depremlerindeki gözlemler akademik alanda ilgiyi bu konuya çekmiş Kobe (1995) depremi sonrasında deniz tabanı ıslah yöntemlerinin etkinliğini gündeme getirmiştir [1].

Bu çalışmada su altı mühendislik yapılarında (tünel, liman, iskele, köprü ayağı, vb.) karşılaşılan taşıma gücü düşük zeminlerde uygulanan zemin iyileştirme yöntemleri anlatılmıştır. Özellikle tünel yapılarının altında kalan ve sıvılaşma potansiyeli yüksek olan zeminlerde kullanılan kompaksiyon enjeksiyon metodundan detaylı bir şekilde

bahsedilmiştir. Söz konusu yönteme ait Avrupa ile Asya'yı denizin altından demiryolu ile bağlayan Marmaray Projesi kapsamında batırma tünel elemanlarının yerleştirileceği zemine uygulan zemin iyileştirme yöntemi araştırılmıştır.

BÖLÜM 2. YAPILMIŞ OLAN ÖNCEKİ ÇALIŞMALAR

Zemin iyileştirme amacıyla kullanılan enjeksiyonlama yöntemleri hakkında literatürde yer alan bazı çalışmalara aşağıda kısaca değinilmiştir. Enjeksiyon çok çeşitli amaçlar için kullanılmaktadır. Bu amaçlar doğrultusunda birçok araştırmacı çeşitli çalışmalar yapmışlardır. Literatürde enjeksiyon için yapılan çalışmaların çimento bazlı karışımlar ve kimyasal bazlı karışımlar olarak ikiye ayrıldığı görülmüş olup çalışmaların çoğunun numunelerin mukavemeti üzerine yapıldığı gözlemlenmektedir.

Kompaksiyon enjeksiyonuna ilişkin teorik ve pratik yaklaşımlarda, enjeksiyon parametreleri ve kullanılan enjeksiyon malzemesinin özellikleri ile bu tekniğin özellikle zeminin sıvılaşma direncini arttırmasına yönelik çalışmasının sonucunda tekniğin sıvılaşma riskini azaltma yöntemi olarak kullanılacağını ancak yumuşak killerde uygulanması durumunda aşırı boşluk suyu basınçlarını sönmeyecek özel önlemlerin alınması gerektiği ve yanal gerilmelerin uzun vadede azalmasından ötürü iyileştirilmiş zeminin penetrasyon dirençlerinde zamanla azalma meydana gelebileceği bulunmuştur [2].

Yüksek basınçlı enjeksiyon (Jet-Grout) yerine maliyeti çok daha uygun olan düşük basınçlı çimento enjeksiyonunun uygulanabilirliğini incelenmiş, bunun için sıvılaşma potansiyeli bulunan zemin numunesine uygulanacak enjeksiyon sonucunda, mukavemetin su/çimento ve enjeksiyon basıncı ile değişiminin belirlenmesi gözlemlenmiştir. Bu amaçla Japonya İnşaat Mühendisleri Birliğinin sunduğu, sıvılaşma riski bulunan bölgede kalan gradasyona relatif sıklığı 25 ± 5 olacak şekilde kalıplar içerisine yerleştirilen zemin numuneleri üzerinde laboratuarda, 100,150 ve 200 kPa basınç altında su/çimento oranı 1/1, 1.5/1 ve 2/1 olan çimento karışımı kullanılarak enjeksiyon deneyleri yapılmış ve de enjeksiyon deneyleri sonucunda elde edilen numunelere 7 ve 28 günlük kür süreleri sonunda serbest

basınç deneyleri uygulanmıştır. Deneylerde kullanılan zemin numuneleri İzmit Aslanbey Ocağından alınmış olup çalışmalarının sonucunda çimento karışımının su oranı arttıkça yetersiz enjeksiyon uygulanmış numune sayısının arttığını bunun çimento karışımının su oranı arttıkça çökelme miktarının da artmasından kaynaklandığı görülmüştür [3].

Su/çimento oranı sabit kaldıkça enjeksiyon basıncının artması sonucu numunelerin serbest basınç mukavemetlerinde ufak artışlar olmasına rağmen büyük farkların oluşmadığını gözlemlenmiştir.

Enjeksiyon basıncı sabit kaldıkça su/çimento oranının artması ile numunelerin serbest basınç mukavemetlerinde düşüş olduğunu 7 günlük serbest basınç mukavemeti ile 28 günlük serbest basınç mukavemeti arasında tüm numunelerde doğru orantılı bir artış olduğunu ifade edilmiş fakat aralarında sabit bir oran bulunmamıştır.

Enjeksiyon uygulanmış numunelerde elle hazırlanan beton numuneleri gibi tam bir homojenlik bulunmadığı belirlenmiştir. Bunun sonucunda enjeksiyonlanmış aynı numunelerde farklı serbest basınç mukavemetleri olduğunu elde etmiştir.

Jet Grouting ve Deep Mixing zemin ıslahı teknikleriyle sismik felaketin etkilerinin azaltılmasına yönelik yeni bir hesap metodu önerilmektedir. Önerilen hesap yöntemi kısaca, deprem durumunda oluşacak kayma gerilmelerinin birim alan içerisinde üniform olarak, yüksek kayma modüllü kolonlar ve bu elemanları çevreleyen zemin arasında kayma modülleri oranında dağılacığı kabulüne dayandığını ifade etmiştir. Bu bakımdan önerilen metodun uygulamada ekonomik ve güvenli sonuçların elde edilmesinde yararlı olacağı beklenmektedir. İki veya üç boyutlu Sonlu Elemanlar Metodu veya Sonlu Farklar Metodu modelleri ile yukarıda yapılan kabullerin kontrolü faydalı olacağını belirtilmiştir [4].

Mermer fabrikalarının atığı olan mermer tozu, iyileştirme için katkı maddesi olarak düşünülmüş zemin numunesi olarak Meşelik kili kullanmıştır. Numuneler, Meşelik kilinin kum ağırlığına göre atık mermer tozu ile belirli oranlarda karıştırılarak

standart proctor sıkıştırma enerjisinde hazırlanmıştır. Numunelerin şişme yüzdeleri odometre deneyleri ile belirlenmiştir. Deney sonuçları, atık mermer tozunun killerin şişme potansiyelini etkilediğini göstermiştir. Sonuç olarak, atık mermer tozu zemin iyileştirmesinde kullanılabilir bir malzeme olduğunu eğer mermer tozunun zeminin iyileştirilmesinde kullanımı söz konusu ise, deneylerle etkili karışım oranının belirlenmesi gerekmektedir [5].

Farklı su/çimento oranlarında ince daneli çimentolar kullanılarak değişik hızda sahip karıştırıcılar tarafından enjeksiyon karışımları hazırlanmış ve bu karışımların basınç mukavemetlerinin karıştırma mekanizmasıyla ilişkisini incelenmiştir. Deneylerde normal portland, ince daneli çimentolar ile farklı hızlarda beş karıştırıcı kullanılmışlardır. Karışımların su/çimento oranını 1/1, 2/1, 3/1 ve 4/1 olarak almışlar ve karıştırıcılarda 1 ve 10 dakika karıştırmışlardır. 10 dakika karıştırılarak yapılan karışımların 1 dakika karıştırılan karışımlara göre daha hızlı çöktüğü ve sonuçta aynı çökme yüzdesine ulaştıklarını gözlemiştir. Ayrıca karıştırma süresinin artması ile viskozitenin arttığını gözlemişlerdir. Karıştırma sürelerinin priz süresini değiştirmedeği fakat Blender karıştırıcı ile elde edilen karışımın basınç mukavemetinin daha yüksek çıktığını görülmüştür [6].

Çimento, uçucu kül, bentonit ve hava sürükleyici katkıları kullanılarak karışımların mukavemetini ölçümüş, kum ve uçucu kül %50 ile %100 oranlarında kullanılmıştır. % 0,5 bentonit ve % 1 hava sürükleyici katkı maddeleri bazı karışımlarda kullanılmıştır. Mikserde karıştırılan karışımlar 7,1 cm. çapında ve 14 cm yüksekliğinde flexi-glas kalıplara dökerek 28 gün %100 nemde kür etmişlerdir. Deneyler sonrasında %50 kum ve %50 uçucu kül karıştırılmış su/çimento oranının 1/1 olduğu numunelerde maksimum mukavemeti elde edilmiştir [7].

Çimento enjeksiyonu ile ilgili olarak laboratuarda yaptığı çalışmalarda karışım ve basıncın mukavemete olan etkileri üzerine yoğunlaşmış, bazı çalışmalar ise enjeksiyonlanabilme üzerine yapılmıştır. Bu çalışmalar sonucu 0,6 mm.'den daha küçük dane boyutuna sahip zeminlere enjeksiyonun yapılamadığı görülmüştür [8]

BÖLÜM 3. PROBLEMLİ ZEMİNLER İÇİN UYGUN ÇÖZÜMLER

3.1. Zemin İyileştirme Kavramının Ortaya Çıkışı

Nüfusun önlenemez artışı, yapı alanlarının daralması, yerleşim yerlerinin ve çalışma alanlarının çok katlı teşkil edilmesine ve dinamik özellik olarak yapıların kütle olarak daha ağır teşkil edilmesine yol açmıştır.

Zamanla insana hizmet eden yol, köprü ve konutlar daha ciddi ve günümüz ihtiyacını karşılamak amacı ile daha geniş ve ağır yapım ilkesine dayanır. Bu nedenle yapıların zemine ilettiği yüklerde katlanarak artmış ve zeminin kendi taşıma gücü aşmıştır.

Gelişen sanayi, yerleşim alanları sınıf olarak yapı için istenmeyen zemin bölgelerini bu alanların kullanılma zorunluluğu bırakmış ve riskleri de beraberinde getirmiştir.

Günümüz Türkiye'sinde deprem ve depremin getirdiği yıkımlar daha çarpıcı ortaya çıkmış, yapılar kadar zemin iyileştirmesi de önem kazanmıştır. Öncelik uygun zemine uygun kat oranıyla sağlanmaya çalışılmış fakat yapı alanlarının önem sırası, yapı alanlarının daha verimli kullanımını zorunlu hale getirmiştir.

Zemin iyileştirmesi bir ihtiyaç olmaktan çıkmış, amaç ve kapsamı genişletilmiş neredeyse tüm yapılarda başvurulmuş bir yol haline gelmiştir. Köprü ayakları altına yapılan muhtelif kazık sistemleri, karayollarındaki ciddi drenaj sistemleri, bina temel altlarındaki pompaj ve drenaj sistemleri günümüzde sıkça kullanılan iyileştirme sistemleridir. Çok katlı ve oturma etkisine müsait olmayan yapılarda zemin iyileştirmesi yapılmadan yapı teşkil etmek neredeyse imkânsızdır.

Kullanılacak zemin iyileştirme teknikleri bölgenin topoğrafik durumu, iklim durumu, ulaşım durumu ve yapılara getireceği ek maliyetlere bağlı olarak değişebilir [9].

3.2. Sualtı Mühendislik Yapılarında Zemin İyileştirme Gereksinimleri

Ülkemizde büyük çaplı yatırımlara temel oluşturan deniz tabanı zemini, taşıyacağı yükler ve yeterli mukavemet koşullarını sağlayamaması durumunda deniz tabanı zemininin iyileştirilmesi konusu ortaya çıkmış ve büyük önem kazanmıştır. Yapının giriş ve kolon vb. boyutlarının büyütülmesi kimi zaman gerekli emniyeti sağlamak amacı ile yeterli olmamakla birlikte yapının yapılması için elbette sağlam zemin koşulu aranmaktadır.

Suya doymuş kum tabakaları ve bazı siltli kil formasyonları, depremde sıvılaşma yolu ile deniz seviyesinin altında kalan alanlardaki yapılara (rıhtım, limanlar, istinat yapıları, köprü) zarar vermektedir.

Sıvılaşma olayı, suya doymuş ince taneli kum ve silt gibi tabakaların, deprem titreşimleri esnasında boşluk suyu basıncı değerinin artması ile efektif yanal gerilmenin sıfır olması sonucu, tabakanın bir sıvı haline dönüşmesi olarak tanımlanabilir.

Bu durumda tanelerin birbirine göre temas dirençleri ortadan kalkar ve taban üzerinde bulunan herhangi bir deniz yapısı gibi ağır bir cismin tabana gömülmesine neden olur. Boşluk suyu basıncı taneleri yukarı doğru kaldırarak tanelerin boşlukta gibi hareket etmesine neden olur. Dalgalı ortamda sıvılaşma her zaman mümkündür. Diğer bir şekilde tanımlanmaya çalışılırsa, zemindeki taneler arasındaki efektif gerilmeler ortadan kalktığında katı tane-su karışımı akışkan gibi davranmaya başlar, bu durum sıvılaşma olarak bilinmektedir. Sıvılaşma deprem etkilerinin yanı sıra dalga etkisinde de meydana gelebilmektedir. Özellikle deniz yapıları suya doymuş zeminler üzerine inşa edilmeleri nedeniyle sıvılaşma potansiyeli yüksek zemin yapıları mevcut olduğunda, bu yapıların deprem etkisinde hasar görmeleri ya da toptan göçmeleri söz konusu olabilmektedir [10].

Sıvılaşma potansiyeli olan deniz tabanı kısımlarını, zeminin yapısından hareket ederek belirli ölçüde tahmin etmek mümkün olabilse de, bir depremde sıvılaşmanın olacağını tahmin etmek zordur. Zemin türünü, yoğunluğunu ve yeraltı su seviyesinin derinliğini belirleyerek ancak zeminin sıvılaşma potansiyelinin yüksek olduğu bölgeler belirlenebilmektedir. Bunun yanında depremin sıklığı ve büyüklüğü, alınacak tedbirlerin belirlenmesinde etkili olmaktadır.

Sıvılaşma şekil 3.1 de görüldüğü gibi şiddetli deniz tabanı sallantılarının etkisi sonucunda zeminin hareketi ile köprünün kirişinde burkulmalar meydana gelmekte hem ekonomik açıdan etkili hasarlar bırakmakta hem de can güvenliğini tehlikeye sokmaktadır.



Şekil 3.1. Sıvılaşma sonucu hasar gören köprü (San Lorenzo)

Pahalı yatırımlar gerektiren deniz yapılarının hasar görmesi, büyük ölçüde mal ve can kaybına yol açabileceği düşünüldüğünde, deniz yapılarında güvenli bir tasarım için üzerine inşa olunacak zeminlerin iyileştirilmesinin gereksinimi ortaya çıkmıştır.

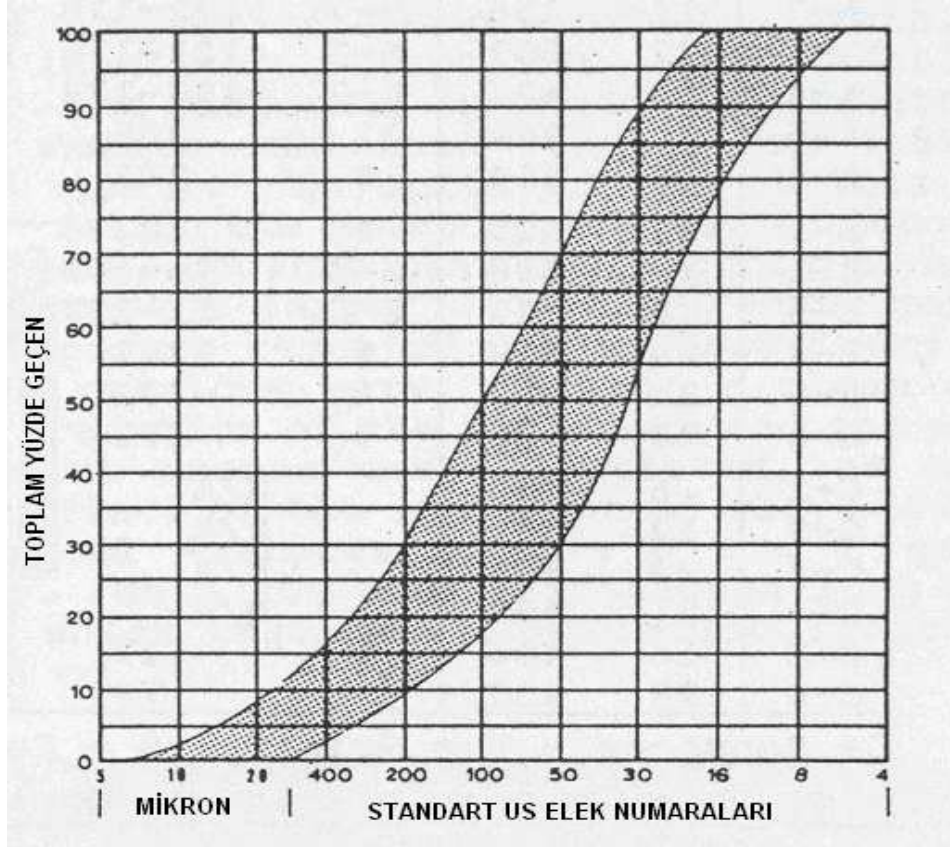
3.3. Sualtında İnşa Olunan Yapılarda Problemler Zeminlerin İyileştirilmesi ve Uygulanması

Deniz tabanı zemin iyileştirmelerinde taşıma gücünü arttırmak, oturmaları kontrol altına almak, dinamik etkiler altında deformasyonları ve sıvılaşmayı önlemek, geçirimsizliği azaltmaktır. Aşağıda iyileştirme yöntemlerinden sık kullanılanlar anlatılmaktadır.

3.3.1. Kompaksiyon enjeksiyonu

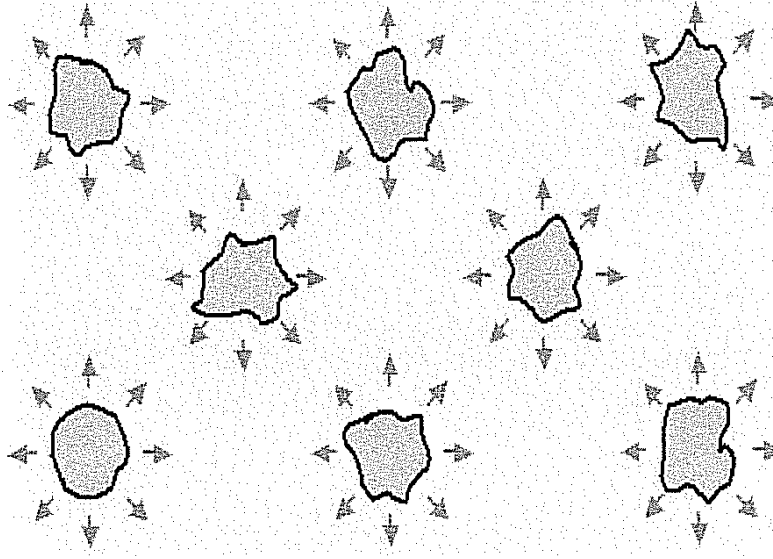
Kompaksiyon enjeksiyonu dünyada ve özellikle Amerika'da yaklaşık 50 yıldan beri temel mühendisliği alanında zeminin boşluk oranının azaltılmasında, farklı oturmalara maruz kalmış binaların tekrar eski seviyelerine yükseltmelerinde, döşeme ve sömellerin alttan desteklenmelerinde, oturma kontrolünde ve son 10 – 15 yıllık bir süre içerisinde de sıvılaştırılabilir zeminlerin sıvılaştırma potansiyellerinin azaltılmasına yönelik olarak kullanılmıştır.

Kompaksiyon enjeksiyonunda çok katı bir enjeksiyon malzemesi ve çok yüksek basınçlar (3.5 MPa'a kadar) gerekmektedir. Dolayısıyla zeminin orijinal yapısı bozulmakta ve bu sayede radyal olarak sıkıştırılabilmektedir. Ayrıca kompaksiyon enjeksiyonu tüm zeminlere uygulanabilirken kompaksiyon enjeksiyonunun başarılı sonuçlar vermesi enjeksiyon malzemesinin katı ve yüksek viskozitede olmasına bağlıdır. Bu yüzden karışımlarda plastisiteyi gereğinden fazla artıracak silt ve gereğinden fazla malzemenin yerdeğiştirmesini sağlayacak bentonitin kullanılmaması öngörülmektedir. Karışımda kullanılacak kum için de tercih edilen dane çapı dağılım aralığı Şekil 3.2. de gösterilmiştir.



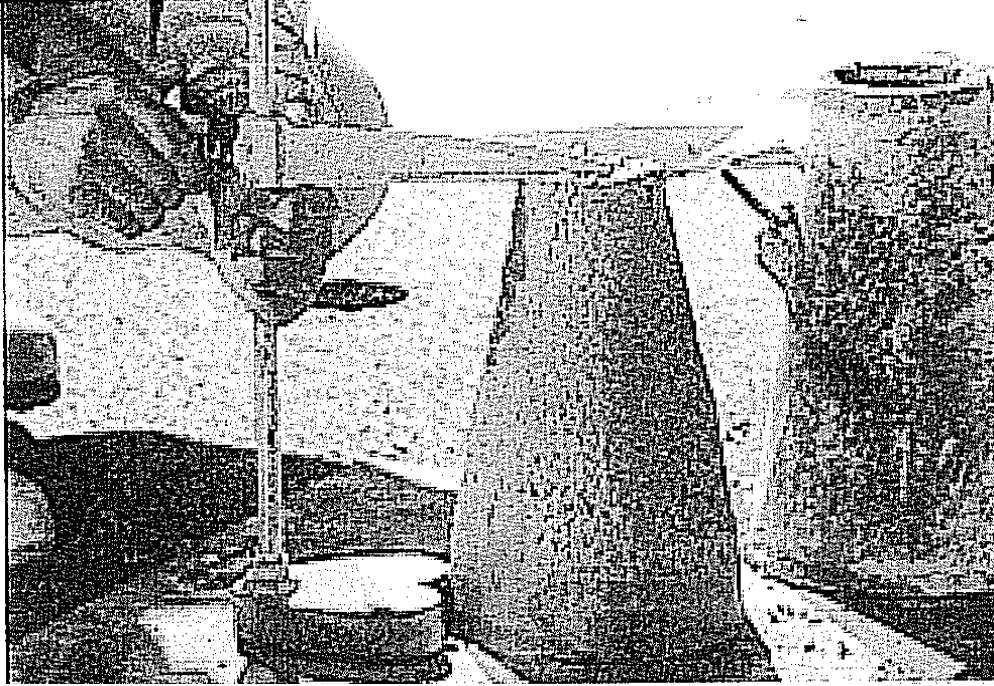
Şekil 3.2. Kompaksiyon enjeksiyonu karışımındaki kum için öngörülen dane çapı dağılım aralığı [11]

Kompaksiyon enjeksiyonu sonucu zemin içerisinde oluşturulan kütlenin uzun vadede de yeterli dayanımda olması gerekir. Ayrıca bu tekniğin çok yumuşak killerde uygulanması ekstra boşluk suyu basınçları oluşturacak bu da uzun vadede oturmalara yol açacaktır. Dolayısıyla bu hususların uygulama öncesinde enjeksiyon parametreleri ve enjeksiyon malzemelerinin tasarımı esnasında göz önünde bulundurulması gerekir.



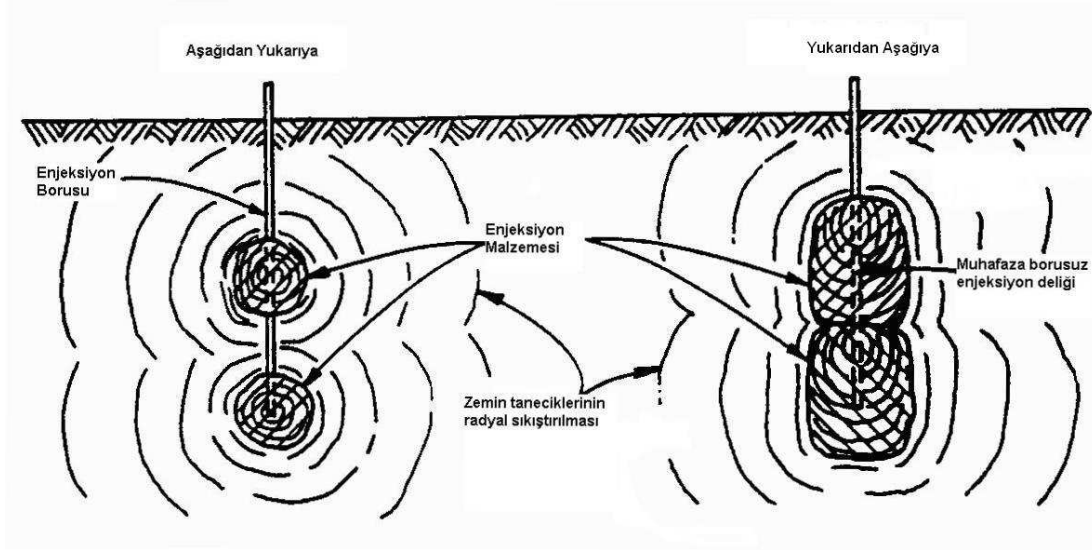
Şekil 3.3. Plan Görünüş

Kompaksiyon betonlama yönteminin şekil 3.3. de ki planlarına baktığımızda enjeksiyon malzemesinin hacmi uygulamaya bitiminde artmakta ve homojen kümeler halinde dağılmaktadır. Enjeksiyon malzemesi özel agrega, çimento ve sudan oluşur. En önemli kriter malzemenin slump değeridir. Bu değer Şekil 3.4. da gösterildiği gibi 5 cm yi aşmamalıdır.



Şekil 3.4. Düşük slump değerini sağlayan beton malzemesi (< 5 cm)

Enjeksiyonun zemin içerisine yerleştirilmesi bütün arazi koşullarını göz önüne almayı gerektirmekte ve genellikle şekil 3.5. de görüldüğü gibi yukarıdan aşağıya, aşağıdan yukarıya ve bazen de her ikisi birden olmak üzere gerçekleştirilmektedir. Yüzeysel uygulamalar ve farklı oturmuş sömellerin kaldırılmaları yukarıdan aşağıya, yüzeysel kabarmaların asgari tutulması gereken stabilizasyon işleri ise aşağıdan yukarıya gerçekleştirilmektedir. Enjeksiyonun yukarıdan aşağıya yapılmasının avantajı ilk olarak üst tabakaların sıkıştırılması ve bu sayede aşağıya doğru ilerledikçe daha yüksek enjeksiyon basınçlarının kullanılabilmesidir. Fakat her enjeksiyon aşamasında ek delgi gerektiğinden maliyetin artması bu yöntemin dezavantajını oluşturmaktadır. Şayet yukarıdan aşağıya gerçekleştirilen enjeksiyon işlemi derin formasyonlarda oturma problemine yol açacaksa ilk olarak aşağıdan yukarıya yapılan birkaç enjeksiyondan sonra işlem yukarıdan aşağıya tabandaki son enjeksiyon kütesine ulaşılan kadar devam ettirilir [2].



Şekil 3.5. Aşağıdan yukarıya ve yukarıdan aşağıya gerçekleştirilme işlemi [12]

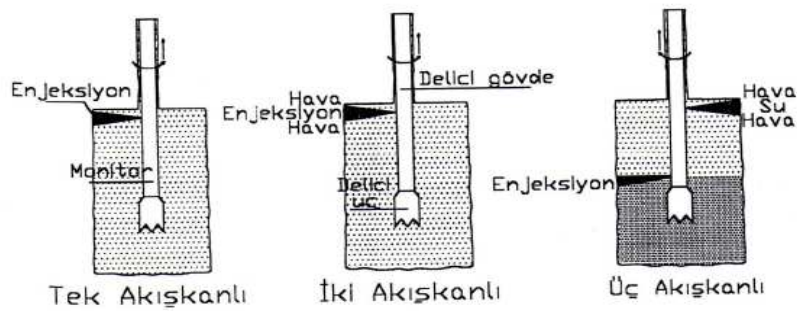
Kompaksiyon enjeksiyonlama kilden kuma kadar çeşitli zemin türlerinde tünel tabanı, köprü ayakları ve kıyı yapıları zemin iyileştirmelerinde olumlu sonuçlar vermekte uygulama sonrasında % 50 ye oranında azalmalar görülmektedir. Ancak deniz koşullarında ekonomik olmamakla birlikte kullandığı teknolojik ekipmanlar açısından da pahalıdır.

3.3.2. Jet enjeksiyonlama

Zemin ıslahı, ana işlev olarak zeminin mekanik mukavemet değerlerini arttırmayı hedefler, dolayısıyla taşıma kapasitesi ve elastisite modülü artar, geçirgenlik azalır. Jet-grout bu maksatlara ulaşmakta en başarılı olan metottur. Jet grout yöntemi, su jetinin çalışma prensibine dayanır. İyileştirme yapılacak derinliğe kadar bir delgi yapılması ve jet grout ekipmanı kullanılarak zeminin içerisine ince püskürtme memelerinden yüksek basınçla (300-600 bar) çimento-su enjeksiyonu yapılarak, yerindeki zeminin koşullarına ve uygulanan basınç aralığına göre belirlenecek çapta, zemin-çimento kolonları oluşturulması şeklinde açıklanabilir. Böylece mevcut zeminin, taşıma gücü ve deformasyon modülü artar; permeabilitesi azalır. Yüksek basınçlı enjeksiyonun mevcut doğal zemini kesmemesi ile beraber zeminle karışan enjeksiyon şerbeti, oluşturduğu bu kolonlarla, homojen ve sürekli bir yapısal eleman olarak işlev görür. Böylece hem kalıcı hem geçici zemin iyileştirmeleri yapılabilir [13]. Yapının temeli ve zemin özelliklerine göre, şaşırtmalı, atlamalı ya da bitişik

nizam şeklinde, hesaplanan uzunluktaki beton kolonların enjeksiyonu yardımıyla doldurulması şeklinde uygulanır.

Jet enjeksiyonu uygulamaları, şekil 3.6. da görüldüğü gibi tek akışkanlı, çift akışkanlı ve üç akışkanlı sistemler olmak üzere üç farklı sistemde uygulanmaktadır. Tek akışkanlı sistemde zemini kesme, aşındırıp uzaklaştırma ve zemin ile enjeksiyonu karıştırmada yalnızca tek bir jet akımı kullanılmaktadır. Sistemde enjeksiyonun iletildiği tijde 2.0-4.0 mm çapında bir veya birkaç püskürtme ağzı vardır ve bu noktalardan çimento enjeksiyonu 900 'lik açı ile püskürtülür. Çift akışkanlı sistemde yüksek hıza sahip enjeksiyon jeti, 2-15 barlık sıkıştırılmış ve enjeksiyonu çevreleyen hava konisi ile beraber püskürtülmektedir. Sisteme eklenmiş olan bu hava jeti çimento enjeksiyonun sahip olduğu aşındırıcı etkiyi oldukça artırır ve oluşturulan kolon çaplarında tek akışkanlı sisteme göre neredeyse 2 katlık artış olur. Üç akışkanlı sistem, bütün jet enjeksiyonu sistemleri içine en ileri ve en karmaşık olan sistemdir. Sistemde zeminin sökülmesi, sıkıştırılmış hava konisi tarafından çevrelenmiş su jeti ile yapılmakta ve bu jetten bir miktar aşağıya (birkaç desimetre) aynı eksenli olacak şekilde yerleştirilmiş püskürtme ağzından da çimento enjeksiyonu tek basına püskürtülmektedir. Üç akışkanın (hava, su ve çimento karışımı) ayrı ayrı iletilip püskürtülmesi daha fazla zeminin sökülüp uzaklaştırılmasına, zemin ile enjeksiyonun tam anlamıyla yer değiştirmesine yol açmaktadır.



Şekil 3.6. Jet enjeksiyon sistemleri

Jet enjeksiyonu derin temeller, istinad duvarları, batardolar, şev stabilitesi , zemin ankrajları , tüneller, geniş temel alanlarında zemin iyileştirmesi, temel takviyesi, kazı tabanından su gelmesinin önlenmesi, oyulmaya karşı korunma gibi oldukça geniş bir kullanım alanına sahiptir.

Deniz tabanı zemin türlerine ilişkin tipik jet beton sütunlarının dayanımları, kolon yaşı ölçütlerine göre şekil 3.6. da görüldüğü gibi değerlendirilmektedir. Jet kolonlarının kum ve çakıl içerikli zeminlerde maksimum verimliliği sağladığı görülmektedir. Bununla beraber, organik silt ihtivasi fazla olan deniz tabanlarında ise jet beton kolonlarının iyileştirme etkileri oldukça azalmaktadır [1].

Jet enjeksiyon zemin iyileştirmesini hızlı bir şekilde başarıyla tamamlamakta ancak su geçirimsizliğini özellikle kumlu ve kısmen çakıllı zeminlerde sağlayamamaktadır.

3.3.3. Çimento enjeksiyonlama

Çimento esaslı enjeksiyonlar zemin veya kaya ortamının çeşitli özelliklerini iyileştirmek için yaygın olarak kullanılmakta olup özellikle taşıma gücü zayıf olan duvarlarda düşük basınçlar altında uygulanır. Bunun için duvarın içine kadar uzanan borular yerleştirilir. Duvarın iç ve dış yüzeyi az kalınlıkta sıva ile kaplanır. Daha sonra alttaki deliklerden başlayarak düşük basınç altında çimento şerbeti enjeksiyonu yapılır. Herhangi bir borudan çimento pompalama, yandaki borulardan çimento şerbeti taşmaya başlayıncaya kadar sürdürülür. Çimento yapılmış delik kapatılır. Bu işlem her bir sıradaki delikler doluncaya kadar sürdürülür. Daha sonra aynı işlemler bir üst sıradaki enjeksiyon deliklerine uygulanır. Delikler arasında geniş aralık olabilir. Bu deliklerin duvardaki taş ya da tuğla ve benzeri malzeme arasındaki derz durumlarına göre yerleştirilmesi gerekir. Deliklere takılacak borular kullanılacak hortum ucu boyutuna göre seçilir [14].

Çimento şerbetinin su/çimento oranının nispeten daha yüksek olduğu ve karışıma akışkanlık vermek için başta bentonit olmak üzere değişik katkı malzemelerinin kullanılmasından ötürü kompaksiyon enjeksiyonunda ayrılmaktadır.

Çimento esaslı enjeksiyonlarda; karışım maddesi olarak kum kullanılır. Bentonit gibi killer, şerbetin duraylılığını artırılması için çimento enjeksiyonlarına ilave edilir. Karışıma katılmadan önce bentonit bir tank içinde şişmeye bırakılır. Bentonitin enjeksiyon karışımının duraylılığını artırıcı özelliği olmasına rağmen, çimento şerbetinin katılma süresi gibi özelliklerini kısıtlamaktadır [15].

Çimento enjeksiyonu hem uygulama kolaylığı hem de ekonomik olması nedeni ile sivilaşma riskini azaltmak için kullanılan diğer yöntemlerden öne çıkmaktadır. Ancak sıkı zeminlerde iyi sonuçlar vermediğinden ve uygulama alanının kısıtlı, ilerleme hızının düşük olmasından ötürü tercih sebebi olmamaktadır.

Sonuç;

Sualtı yapıların inşasında yapılan zeminin iyileştirilmesi yöntemleri yukarıda anlatılanlar doğrultusunda tablo 3.1. de zemin iyileştirme yöntemlerinin değerlendirme tablosu görülmektedir.

Tablo 3.1. Deniz Tabanı Zemin İyileştirme Yöntemleri Karşılaştırma Tablosu

Yöntem	Kompaksiyon Enjeksiyon	Jet Grouting	Çimento Enjeksiyonu
Uygulanan Zeminin Cinsi	-Zayıf zeminler iyi sonuç verir -Kumlu-çakıllı zeminlerde	- Killi, kumlu, çakıllı	- Boşluklu zeminlerde Sıkı zeminlerde sakıncalı
Tasarım İlkesi	-Yoğunluğu yüksek çimento şerbeti yüksek basınç altında pompalanması	- Yüksek basınçlı su veya çimento jetleri ile derin kazı, enjeksiyon paneller veya kolonlar oluşumu için stabilizer ile zemin karışımı	- Taşıma gücü zayıf olan duvarlarda düşük basınçlar altında pompa ile çimento şerbeti pompalama
Ekonomik Koşullar	- Deniz koşullarında - Kullanılan ekipmanlar pahalı	- Maliyetli - Kullanılan ekipmanlar pahalı	- Ucuz - Ekipman kısıtlı - Çimento pompalama ekipmanı gerekir
Teknik Özellikler	- İnce kum çimento ve su bileşimi - Malzeme yoğun ve akıcı olmayan beton yüksek basınçla (80kg/cm ³) - İdeal çökme değeri 5-9 cm arası. ideal 7.5 cm.	- Su ve beton bileşimi su jeti prensibine göre çalışmaktadır. - Yüksek Mukavemetli rijit çimentolu zemin yapısı - Beton malzemesi akıcı - Su/çimento oranı 0.7 'nin altında olmamalıdır.	- Beton malzemesi akıcıdır - Zemin boşluklarına iyi penetre olmaktadır - Uygulama sonrası mukavemet kazandıktan sonra zemin toplu hareket eder. - Su/çimento oranı 3/1,1/1,1/3 oranlarında değişebilmektedir. %25 oranında su çimento karışımına kum eklenebilir.
Yöntem Değerlendirme	- Zemin İyileştirme başarısı yüksek ince kumda verimli - Zemin oturmalarını yarı yarıya azaltır - Hızlı değil - Deniz tabanında uygulama zaman alıcı	- Zemin iyileştirme başarısı iyi - Su geçirimsizliği kısmen sağlayamamakta. - Hızlı	- Zemin İyileştirme başarısı iyi - Sınırlı kullanım - Yavaş ve zaman alıcı - Hızlı katılma süreci
İyileştirilen Zeminin Özellikleri	- Sıkışmış zemin matriksi içine enjeksiyon soğanı	- Katılaştırılmış kolon duvarlar	-Geçirimsiz yüksek mukavemet sıvılaştırma tehlikesini ortadan kaldırır

Deniz tabanı zemin iyileştirilme yöntemleri, uygulandıkları zeminin cinsine, yapılacak mühendislik yapısının türüne, uygulanacak zeminin derinliğine, ekonomik koşullara göre farklılıklar göstermektedir.

Kompaksiyon enjeksiyonun; Deniz tabanı dahil olmak üzere genellikle geniş sahalarda uygulanması ve yukarıdan aşağıya yapılmasından ötürü ilk olarak üst tabakaların sıkıştırılması ile aşağıya doğru ilerledikçe daha yüksek enjeksiyon basınçlarında kullanılabilmesi açısından avantaj oluşturmaktadır. Fakat her enjeksiyon aşamasında ek delgi gerektiğinden maliyetin artması bu yöntemin dezavantajını oluşturmaktadır.

Çimento enjeksiyonu; Düşük fiyat ve yüksek dayanım özelliklerinden dolayı tercih edilmelerine rağmen, çatlaklı kaya, kaba taneli kum ve çakıllarda uygulanması, çimento boyutları göz önüne alındığında sınırlıdır. Yöntem ekonomik olmasına karşın yüksek derinliklerde yeterli teknolojik özelliklere sahip değildir bu nedenle uygulama sınırlı ve ilerlemesi açısından da yavaştır.

Jet Enjeksiyonu; Tüm zemin tiplerinde istenen herhangi bir derinlik aralığında çalışma imkânı sağlamakta ve kullanılan ekipmanın boyutları sayesinde kapalı, dar ve sıkışık ortamlarda dahi çalışılabilmektedir. Ancak enjeksiyonun dağılımını ve oluşan geometriyi belirlemek zordur. Bu nedenle, dikkatli ve detaylı gözlem ve kontrol testleri yapmayı zorunlu kılmaktadır.

3.4. Su Altında İnşa Olunan Yapılarda Sıvılaşma Potansiyelinin Belirlenmesinde Kullanılan Arazi Deneyleri

Sıvılaşma potansiyelinin belirlenmesi konusunda NCEER (1997) çalışma grubunun mevcut uygulamaları özetleyen yayınında üç değişik arazi deney yöntemi ile yeterli doygunluğa ulaşıldığı vurgulanmıştır. Bunlar;

- 1-) Standart Penetrasyon Deneyi (SPT)
- 2-) Konik Penetrasyon Deneyi (CPT)
- 3-) Arazi kayma dalgası hızının ölçümü (Vs)

3.4.1. Standart penetrasyon deneyi

Zemin mukavemet ve yoğunluğunu değerlendirmek ve örselenmiş örnek almak amacıyla sondaj kuyusu içinde (in situ) yapılan bir dinamik kesme deneyidir. Deneyde standart bir tij zemine sokulmaya çalışılarak zeminin bu sokulmaya karşı gösterdiği direnç bazı hesaplamalarla saptanabilmektedir.

Kohezyonsuz zeminlerden standart ve klasik numune alıcılara örselenmemiş örnek almak hemen hemen olanaksız olduğu için bu tip zeminlerin mühendislik özellikleri laboratuvar deneyleri ile belirlenememekte, bu yüzden bu tür zeminlerde SPT gibi arazi deneyleri tercih edilmektedir. Deney öncelikle kohezyonsuz zeminlerin izafi yoğunluklarını belirlemek için geliştirilmiş olup daha sonraları yumuşak killerde de uygulanmakla birlikte, killi zeminlerin deneyde belirlenen dinamik özelliklerine ilişkin sonuçlar pek güvenilir olmamaktadır.

SPT Deneyinin Amacı;

- Kohezyonsuz zeminlerin izafi yoğunluklarını belirlemek
 - Sığ temeller için zeminlerin taşıma kapasitelerinin hesaplanması
 - Zeminlerin indeks özelliklerini belirlemeye yönelik laboratuvar deneyleri için örselenmiş örnek almak,
 - Kumların sıkıştırılma (kompaksiyon) derecelerinin belirlenmesinde ve sıvılaşma potansiyelinin değerlendirilmesinde,
 - SPT'den elde edilen verilerin zeminlerin diğer özellikleri ile karşılaştırılması sonucunda;
 - Kumların içsel sürtünme açısı (ϕ)
 - Killerin drenajsız kesme mukavemeti (C_u)
 - Killerin hacimsel sıkışma indisi (m_v)
 - Kumların elastisite modülü (E_s)
- gibi parametreler de dolaylı olarak tahmin edilebilmektedir.

SPT Deneyinin Uygulama Alanları

- Yapı temellerinin taşıma gücü hesaplamalarında
- Kumlu zeminlerde inşa edilen temellerin oturma miktarının belirlenmesinde
- Sıvılaşma potansiyelinin değerlendirilmesinde
- Zeminlerin rölatif (bağıl) yoğunluğunun belirlenmesinde
- Zeminin içsel sürtünme açısının tahmininde
- Kohezyonlu zeminlerde tek eksenli basınç dayanımının yaklaşık olarak tahmininde uygulanır.

3.4.2. Koni penetrasyon deneyi

Zeminlerin mukavemet özelliklerini yerinde belirlemek için yapılan deneylerden birisi de Koni Penetrasyon Deneyidir (CPT). Bu deney yumuşak killerde, yumuşak siltlerde ve ince-orta sıkı kumlarda kullanılır. Giderek daha fazla kullanım alanı bulan CPT deneyi, 60 derecelik, 10 cm² kesit alanına sahip konik bir başlığın hidrostatik basınç ve sabit bir hızla zemine itilmesi şeklinde yapılmaktadır. Deney toplam ve uç okumaları alınarak ve bu iki okuma arasındaki fark çevre sürtünmesini verecek şekilde uygulanmaktadır. Koninin en kesit alanı 10 cm.² olsa da daha büyük koniler kullanılarak daha güvenilir boşluk suyu basıncı okumaları alınabilmektedir. Bu arazi yönteminde, SPT deneyinden farklı olarak sadece belli derinliklerde değil sürekli ölçüm yapılabilmekte ve uygulanması için sondaj kuyusu gerektirmemektedir. Deney ayrıca operatörden daha az etkilenmektedir. Eğer zemin tabakalı ise deney delgi makinesine paralel olarak devam edebilir. Bu durumda kuyu yumuşak malzemeye ulaşılan dek açılır. Bu deney sıklıkla taşınmış zeminlerin derin tabakalar halinde bulunduğu taşkın ovaları, nehir deltaları ve kıyı şeritlerinde uygulanır.

3.4.3. Kayma dalgası hızı deneyi

Kayma Dalgası hızı, kuyu yukarı, kuyu aşağı ve kuyudan kuyuya yöntemleri gibi birkaç farklı jeofizik teknik kullanarak ölçülebilir. Ayrıca, sismik konik

penetrometresi ve süspansiyon loglaması gibi diğer yöntemlerde kullanılabilir.

Diğer arazi deneylerinde olduğu gibi kayma dalgası hızı deneyinde de penetrasyon direnci üst tabaka yüküne göre aşağıdaki eşitlik 1 numaralı bağıntı kullanılarak düzeltilir.

$$V_{s1} = V_s \left(\frac{P_a}{\sigma'_{vo}} \right)^{0.25} \quad (3.1)$$

V_{s1} = düzeltilmiş kayma dalgası hızı

P_a = referans gerilme (100 kPa veya 1 atm basınç)

σ'_{vo} = efektif basınç

Kayma dalgası hızları dikkate alınarak sıvılaştırma analizi yapılmasını öngören bu yöntemde kayma dalgası hızlarının kullanılmasının sebepleri şunlardır;

- Penetrasyon deneylerinin uygun olmadığı çakıllı zeminler gibi örnek alınması zor zeminlerde ölçüm yapılabilir.
- Laboratuvar örneklerinde de ölçüm yapılarak laboratuvardaki ve arazideki zemin davranışları kıyaslanabilir.
- Kayma dalgası hızı zeminin temel mekanik bir özelliği olup küçük deformasyon kayma modülü ile direkt ilişkilidir.
- Kayma dalgası hızı deprem riski analizinde ve zemin yapı etkileşimi analizinde gerekli bir parametredir.
- Kayma dalgası hızı yüzey dalgalarının spektral analizi tekniği ile ölçülebilir. Bu, teknik sondaja izin verilmeyen arazilerde, hızlı ölçüm yapılması gereken iki uzak nokta arasında, çakıl, iri çakıl ve kaya gibi örnek alınması zor zeminlerde uygulanabilir.

Özetle her üç yönteme ait avantaj ve dezavantajlar tablo 3.2. de verilmiştir.

Tablo 3.2. Deneilerin karşılaştırılması [16]

	Avantaj	Dezavantajları
SPT	<ul style="list-style-type: none"> - Deney sırasında numune elde edilmesi, - Çok basit ve kolay yapılabilir olması, - Birçok zemin için uygun olması, - Yumuşak ve zayıf kayalarda uygulanabilir olması, - Ülkemizde çoğu sondaj firmaları tarafından yapılabilir olması 	<ul style="list-style-type: none"> - Alınan numunelerin örselenmiş olması ve sadece tanımlama deneylerinde kullanılması, - Sert killer ve molozlu - bloklu zeminlerde yanıltıcı sonuçlar vermesi - Sondaj firmalarına göre değişiklik göstermesi
CPT	<ul style="list-style-type: none"> - Hızlı olması ve zemin profilinin sürekli olarak belirlenebilmesi, - Sonuçların deneyi yapan operatöre bağlı olmaması, - Numune alımı çok zor olan yumuşak killer ve siltli zeminler için uygun olması, - Deney sonuçlarının yorumlanmasında kolaylıklar sağlaması 	<ul style="list-style-type: none"> - Ülkemizde ekipmanın sınırlı olması, - Bu konuda uzman bir operatör tarafından yapılmasının gerekliliği, - Belirli aralıklarla kalibrasyon gerektirmesi, - Zemin numunesi alınmaması, - Çakıllı ve bloklu zeminlerde uygulanamaması
V _s	<ul style="list-style-type: none"> - Çok büyük sahalarda ön analizin yapılması gereken yerlerde kullanılabilmesi -Bütün zemin tiplerinde uygulanması 	<ul style="list-style-type: none"> - Zemin numunesi alınmaması - Sıvılaştırılabilir ince tabakanının teşhis edilemeyişi ve küçük deformasyonları üzerinde dayanmasıdır.

BÖLÜM 4. MARMARAY PROJESİNDE SIVILAŞMA ANALİZİ

4.1. Sıvılaşma

Suya doymun kohezyonsuz zeminlerde, taneler ve tanelerin arasını dolduran su ile bir miktar hava bulunmaktadır. Depremin iç-merkezinde faylanma sonucu sert kayalar kırılarak yırtılmaya ve sismik dalgalar yayılmaya başlar. Sismik dalgalar, yeryüzüne ulaştıkları zaman, gevşek ve suya doymun zeminlerde soğurularak oldukça karmaşık kırılma, yansıma ve karışıma uğrarlar.

Sismik dalgaların hareketleri, yeryüzüne yakın tabakaların bileşimi ve fiziksel özelliklerine bağılı olarak değışir. Genellikle yüzeye yakın tabakalar ne kadar yumuşak ve kalın olursa, sismik hareketler de o kadar büyük ve hareket süresi de o kadar fazla olur. Bu nedenle bu tür zeminlerde kuvvetli yer-hareketi birkaç kat büyütölür, deprem titreşimleri altında sıkışarak oturur ve hasar oldukça ağır olarak sonuçlanır.

Deprem gibi dinamik etkilerle yeraltı su tablası altındaki doymun ve gevşek zeminde bulunan taneler yerlerini değıştirirler. Yer değıştiren tanelerin gerilimi taneler arasındaki suya aktarılır ve boşluk suyunun basıncı artar. Böylece taneler birbirinden uzaklaşır ve zemin sıvı gibi davranmaya başlar. Deprem öncesi katı bir zemin şeklinde davranan malzeme su ile birlikte toprak zemin içerisindeki çatlaklardan yüzeye doğru hareket eder. Deprem öncesi daha geniş bir hacim kaplayan zeminde taneler arasındaki boşlukların şekli değıştiğı için genellikle deprem sonrasında daha az hacim kaplamaktadır.

Sıvılaşma için gerekli koşullar;

- Yeraltı su düzeyi: çoğunlukla 3 m – 20 m arasındaki sular önemlidir.

- Jeolojik birimler: ilk 15m – 20m arasında bulunan ve taşıma gücü düşük suya doygun kumlu, siltli kumlu ve killi kumlu birimler.

- Tane boyutu:

- $D_{60} / D_{10} < 10$ olan kum – silt türü özellikle

- D_{10} değerinin 0.005 – 0,15 mm arasında olduğu zeminler.

Bu koşulları sağlayan kum düzeyleri km 7+940 ile km 8+814 arasında mevcuttur. Bu alanda kum tabakası çoğunlukla tüp tabanının üzerinde kalmaktadır ve kaldırılacaktır. Kazı derinliği altında kalan kum tabakasında zemin iyileştirmesi yapılacaktır.

Boğaz geçişi üzerindeki zemin profili Ek-1 de gösterilmektedir. Buradan da görülmektedir ki;

- Km 7+427 – Km 7+900; siltli kil, çok yumuşak – yumuşak

- Km 7+900 – Km 8+680; siltli kum, gevşek – sıkı

- Km 8+680 – Km 8+814; iri kum, çakıl, ve blok

Zemin sıvılaşma analizi bu proje de NCEER Çalışma Grubu Kriterlerine göre yapılmıştır. Bu çalışmada da zemin sıvılaşmasına bağlı oturmalar, güvenlik faktörleri (F_s) hesaplanarak kompaksiyon enjeksiyon yönteminin etkinliği iyileştirme yapılmadan önceki değerler ile karşılaştırılarak iyileştirmenin etkiliği değerlendirilmiştir.

4.2. NCEER Çalışma Grubu Kriterlerine Göre Sıvılaşma Analizi

(1) Killi zeminlerde zemin indeksi I_c 'nin hesaplanması;

$$I_c = \left[(3.47 - \log Q) + (1.22 + \log F)^2 \right]^{0.5} \quad (4.1)$$

Buradaki

$$Q = \frac{q_c - \sigma_{v0}}{P_a} \left[\frac{P_a}{\sigma'_{v0}} \right]^n \quad (4.2)$$

$$F = \frac{f_s}{q_c - \sigma_{v0}} * 100 \quad (4.3)$$

q_c : CPT uç dayanımı

f_s : Sürtünme oranı

σ_{vo} ve σ'_{vo} : toplam ve düşey efektif gerilmeler

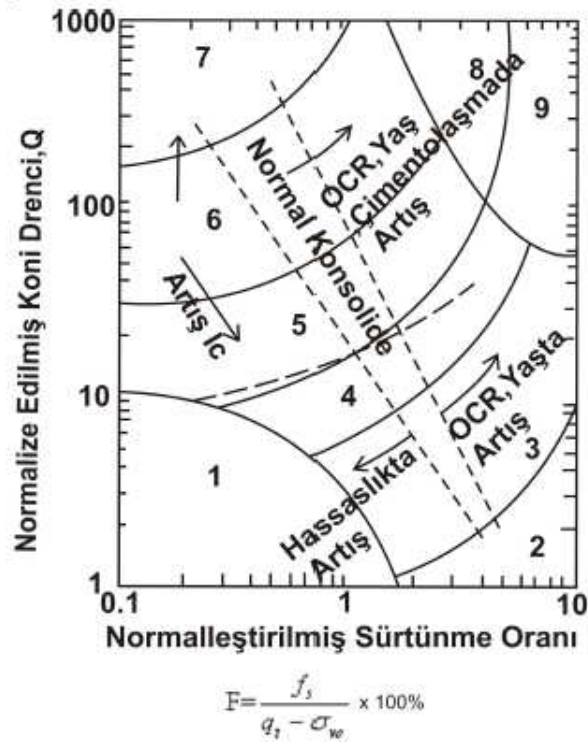
P_a : 100 kPa basınç

Burada denklem 2'de kullanılan n değeri killi zeminler için 1.0 alınarak hesaplanır.

$I_c > 2.6$ ise zeminlerin yeterince kil içeriği bulunması nedeniyle sıvılaşma olasılığının yok denecek kadar düşük olduğu

$I_c \leq 2.6$ ise zeminlerin kumlu zemin olduğu ve sıvılaşma olasılığının bulunduğu kabul edilir.

Şekil 4.1 de zemin tipi grafiği “n” sabiti 1.0 alınarak hazırlanmıştır. Temiz kumlarda “n” sabiti 0.5, siltli ve siltli kumlarda 0.5-1.0 arasında değerler almaktadır.



Şekil 4.1 CPT sonuçlarına dayanan zemin davranış tipi seması

- | | |
|--|-------------------------------------|
| 1. Hassas, ince daneli | 6. Kum; temiz kumdan, siltli kuma |
| 2. Organik zemin, turba | 7. Çakıllı kumdan sıkı kuma değişen |
| 3. Kil; siltli kilden, killi silt | 8. Çok sıkı kumdan, killi kuma |
| 4. Silt karışımları; killi siltten, siltli killi | 9. Çok katı, ince daneli |
| 5. Kum karışımları; siltli kumdan, kumlu silte | |

(1) Kumlu zeminlerde zemin indeksi I_c 'nin hesaplanması;

Eğer zeminin kumlu olduğu biliniyorsa sıvılaştırma dayanımı zemin dayanımı indeksi I_c aşağıdaki formüller yardımı ile hesaplanır;

$$q_{c1N} = C_Q \left(\frac{q_c}{P_a} \right) \quad (4.4)$$

$$C_Q = \left(\frac{P_a}{\sigma_{v0}} \right)^n \quad (4.5)$$

q_{c1N} : Üst tabaka yüküne göre düzeltilmiş birimsiz koni penetrasyon uç direnci

Zemin indeksi I_c değerlendirmesinde sınıflama dayanımı iki adımda hesaplanır. Birinci adım, kil karakterindeki zeminlerin kum veya silt karakterindeki zeminlerden ayrılmasındadır. Bu ayırım $n=0.1$ kabul edilerek aşağıdaki hesaplamalar ile yapılır.

- Eğer eşitlik 2' den bulunan I_c değeri 2.6'dan büyükse zemin killi olarak sınıflandırılıp, sınıflanmadığı kabul edilir.

- Eğer eşitlik 2' den bulunan I_c değeri 2.6'dan küçükse zemin granüler olarak sınıflandırılır C_Q ve Q değerleri $n=0.5$ alınarak yeniden hesaplanır. I_c ise Q değeri q_{c1N} ile değiştirilerek eşitlik 1'den yeniden bulunur. Bu durumda;

-yeniden bulunan $I_c < 2.6$ ise, zemin plastisitesiz ve granüler kabul edilerek, aşağıdaki analizde kullanılır.

-yeniden bulunan $I_c > 2.6$ ise, zemin siltli kabul edilerek, q_{c1N} değerini $n=0.7$ için tekrar hesaplanır ve bu q_{c1N} değeriyle $I_c = \left[(3.47 - \log Q) + (1.22 + \log F)^2 \right]^{0.5}$ yeniden bulunur ve aşağıda anlatılan analize devam edilir. Her halükarda $I_c > 2.4$ ise, zeminden yeniden numune alınarak zemin tipi belirlenmeli ve diğer sınıflama yöntemleri ile de sınıflama kontrolü yapılmalıdır.

Normalize edilmiş uç direncine, eşdeğer temiz kum değeri elde edilmek üzere, aşağıdaki gibi ince dane düzeltmesi uygulanır

$$\left(q_{c1N} \right)_{cs} = K_c * q_{c1N} \quad (4.6)$$

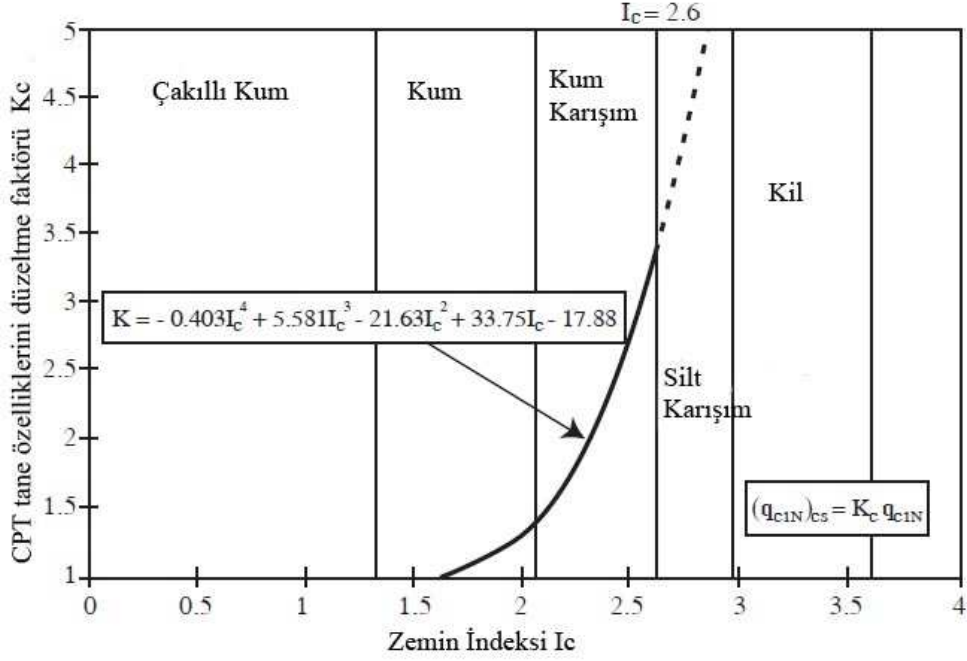
Eğer

$$I_c \leq 1.64 \text{ ise } K_c = 1.0 \quad (4.7)$$

$$I_c > 1.64 \text{ ise } K_c = -0.403I_c + 5.581I_c^3 - 21.63I_c^2 + 33.75I_c - 17.88 \quad (4.8)$$

Eşitlik 7 ve 8' den yararlanılarak çizilen K_c eğrisi şekil 4.2.'de gösterilmiştir.

$I_c > 2.6$ değeriindeki eğri, noktalı çizgilerle gösterilmiştir. Bunun nedeni o bölgede sıvılaşma riski taşımayacak kadar çok killi ve plastik olmasıdır.



Şekil 4.2. CPT Direncinin temiz kumlara uyarlanması için kullanılan düzeltme katsayısı

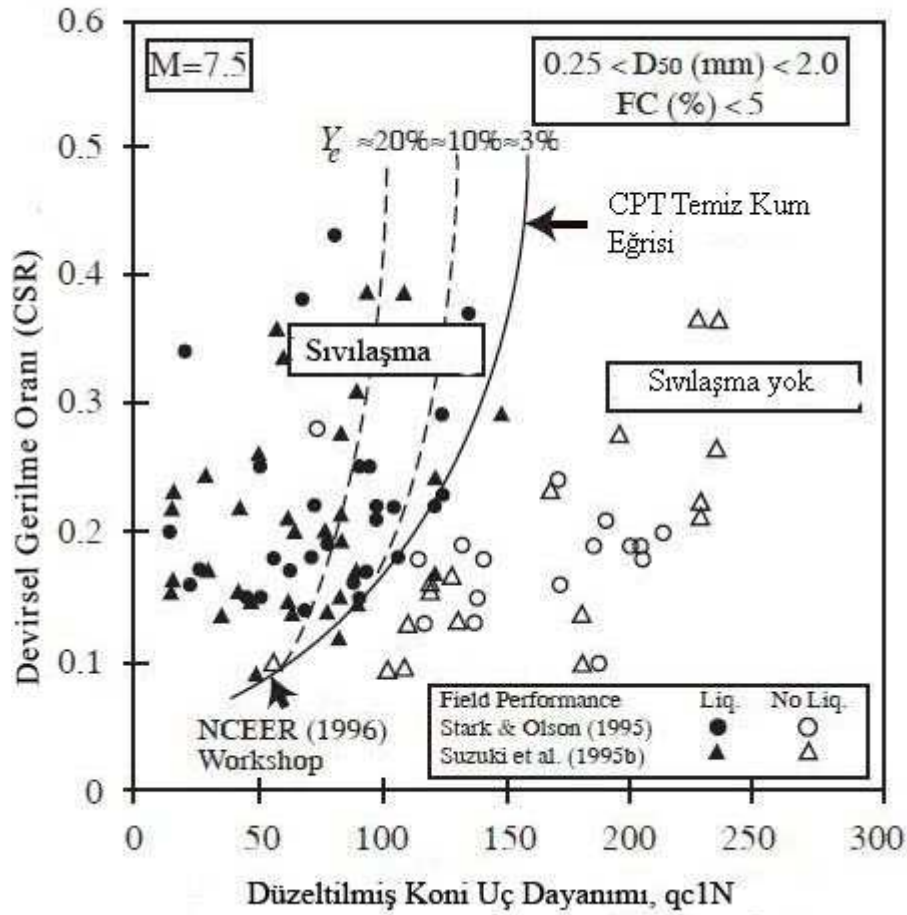
(2) Sıvılaşma direnci analizi

Temiz kumlarda sıvılaşma potansiyeli dane dağılımı ve efektif üst tabaka yüküne göre düzeltilmiş koni penetrasyon uç direncine eşittir. Aşağıdaki eşitlikler sıvılaşma direncini belirler.

$$\text{Eğer } (q_{c1N})_{cs} < 50 \text{ ise} \quad CRR_{7.5} = 0.833 [(q_{c1N})_{cs}/1000] + 0.05 \quad (4.9)$$

$$\text{Eğer } 50 \leq (q_{c1N})_{cs} < 160 \quad CRR_{7.5} = 93 [(q_{c1N})_{cs}/1000]^3 + 0.08 \quad (4.10)$$

CRR: Devirsel gerilme oranı



Şekil 4.3. CRR değerlerinin CPT verilerinden tahmini için önerilen abak ve ampirik sıvılaşma verileri [13]

Devirsel direnç oranı arazi performansı verilerine dayandırılarak elde edilen eğriler vasıtasıyla belirlenir. (Şekil 4.3)

(4) Çevrimsel gerilme oranı (CSR) aşağıdaki şekilde hesaplanabilir;

$$\frac{\tau_{av}}{\sigma_{v0}} = 0.65 \frac{a_{max}}{g} \frac{\sigma'_{v0}}{\sigma_{v0}} r_d \quad (4.11)$$

$\frac{\tau_{av}}{\sigma_{v0}}$: Çevrimsel gerilme oranı

a_{max} : maksimum yataydaki ivme

σ'_{v0} ve σ_{v0} : Toplam efektif ve düşey gerilme

r_d : eşdeğer deprem yükü çevrim sayısı

$M=7.5$ kabul edilmek koşulu ile;

$$r_d = 0.1(M-1)$$

(5) Sıvılaşma güvenlik sayısı F_s ;

$$F_s = \frac{CRR}{CSR} \quad \text{olarak hesaplanır.} \quad (4.12)$$

$F_s < 1$ ise sıvılaşmanın olduğu var, $F_s > 1$ ise sıvılaşmanın olmadığı yoktur.

(6) CPT verilerinden N_c değerinin bulunması

$$q_c \leq 0.2 \text{ MPa} \quad N_c = 0 \quad (4.13)$$

$$q_c > 0.2 \text{ MPa} \quad N_c = 0.341 I_C^{1.94} \cdot (q_c - 0.2)^{(1.34 - 0.0927 I_C)} \quad (4.14)$$

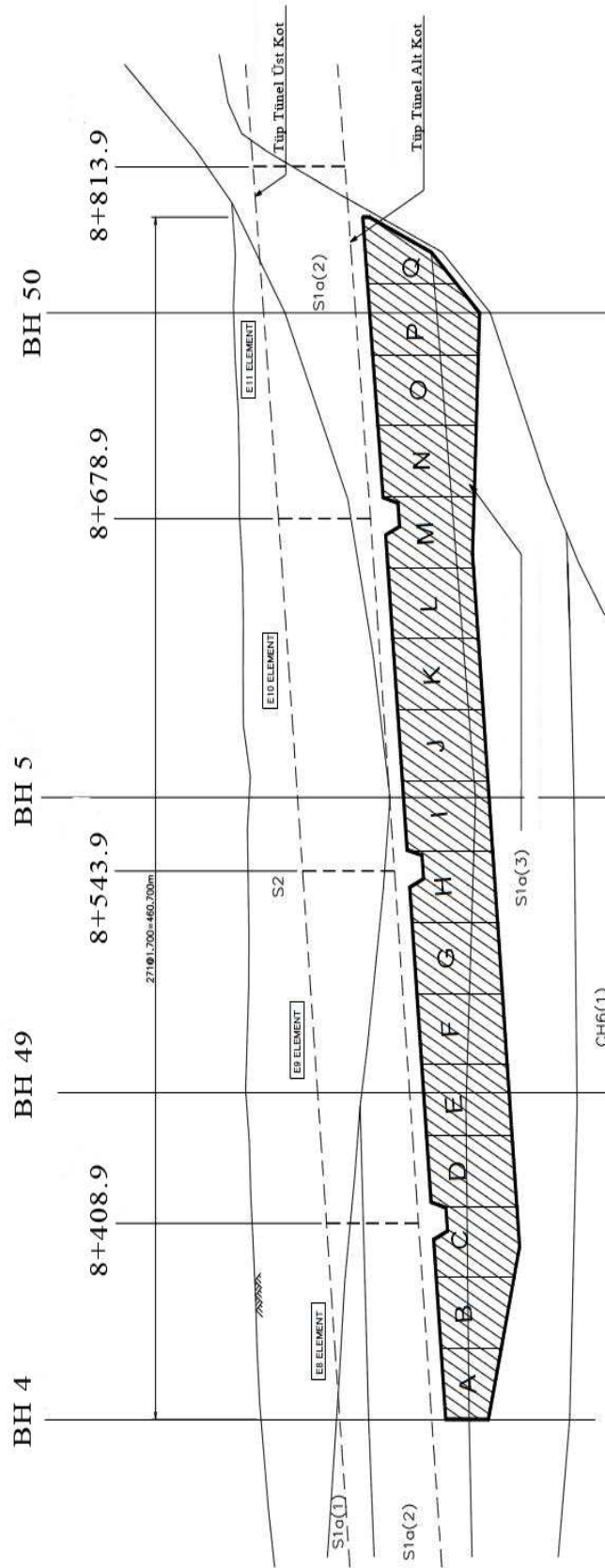
(7) İnce dane oranının bulunması (F_c)

F_c değeri CPT sonuçlarından aşağıdaki gibi elde edilmektedir

$$F_c = 1.0 \cdot I_c^{4.2} \quad (4.15)$$

4.3. İyileştirme Öncesi CPT Sonuçlarına Göre Sıvılaşma ve Oturma Analizi

CPT' ye bağlı sıvılaşma risk değerlendirilmesi 2003 ve 2004 yıllarında yapılmıştır. Konik penetrasyon deneyi direk ölçüm yapılabilmesi ve alınan veriler ile zemin tanımlamasının yapılması nedenleriyle Marmaray Projesinde tercih edilmektedir. Uygulama hızının yüksekliği ve derinlikte sürekli veri toplaması diğer avantajları arasında yer almaktadır.



Şekil 4.4. CPG Alanları

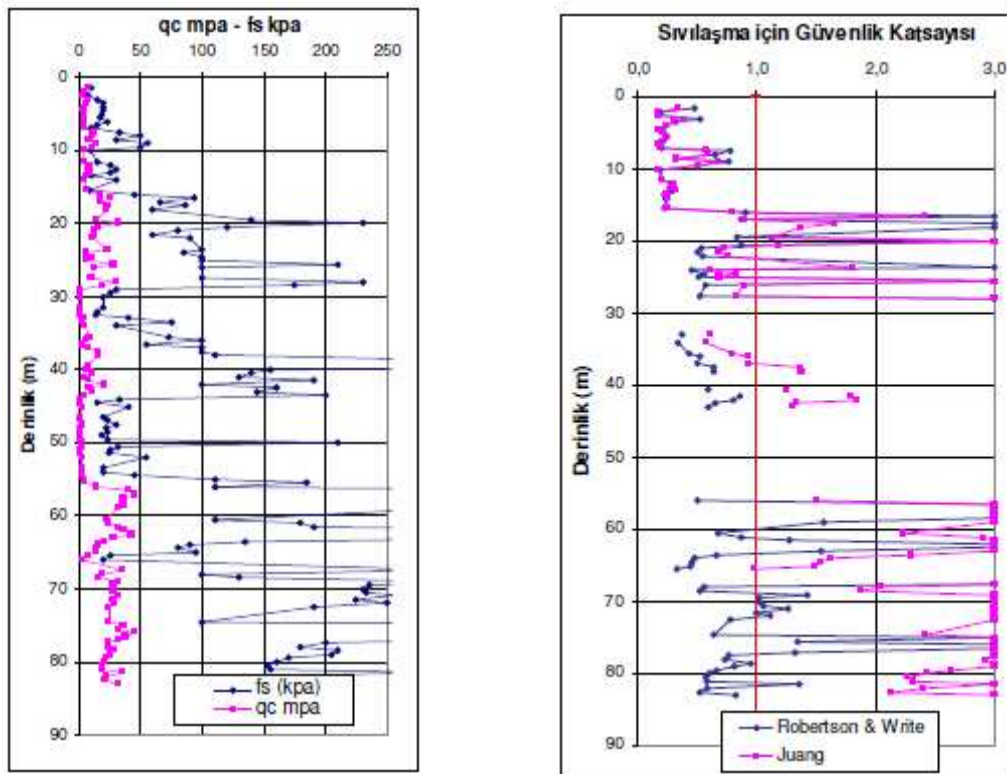
4.3.1. Sıvılaşma ve oturma analizi için seçilen sondaj logları

4.3.1.1. BH 4 Sondaj logu sıvılaşma ve oturma değerlendirilmesi

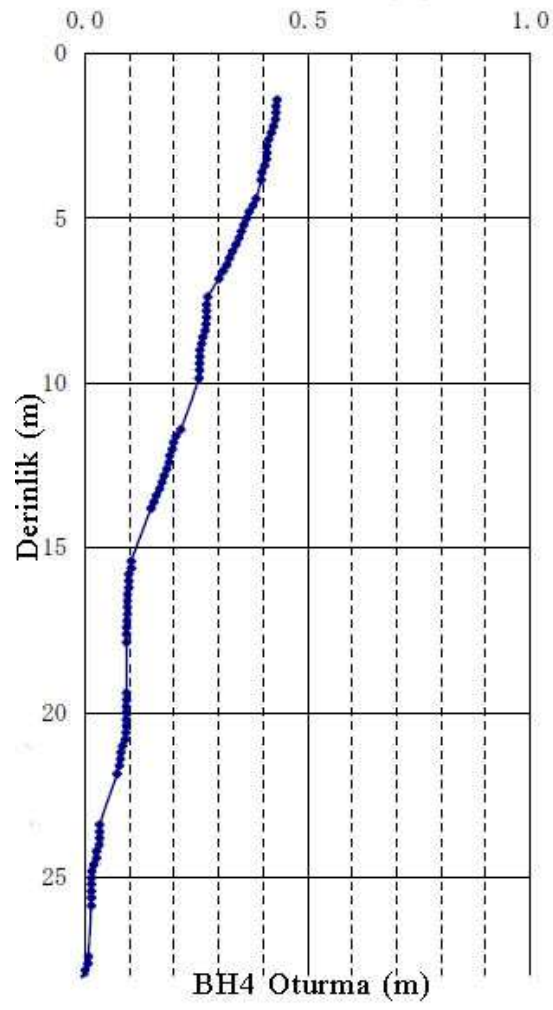
BH 4 sondajı toplam 85,2 metredir. Kuyu sonuna kadar yapılan CPT deneyinden elde edilen q_c - f_s değerleri şekil 4.4.'de ve oturma değerleri şekil 4.6 da gösterilmiştir.

BH 4 sondajının ilk 28 metresi kumdan oluşmaktadır. 28 metre ile 43 metreler arasında kil ve kumda oluşmaktadır. 41 metre ile 56 metre arasında kohezyonlu (kilsilt) bir zemin kesilmiştir. Daha altta ise kuyu sonuna kadar kum gözlemlenmiştir.

Yapılan analizler sonucu ilk 28 metre, 33 - 43 metre arası ve 56 - 97 83 metre arası zeminler sıvılaşma riskine sahiptir ve güçlendirilme yapılması gerekmektedir.



Şekil 4.5. BH 4 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri

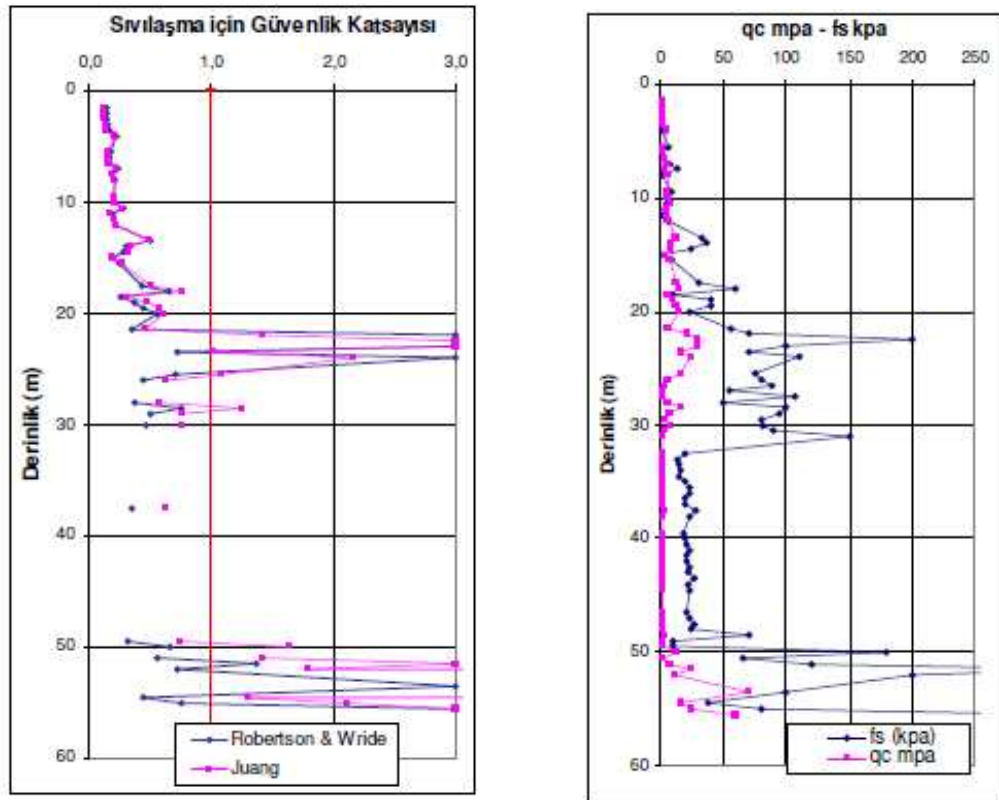


Şekil 4.6. BH 4 Sondaj logundaki oturma değerleri

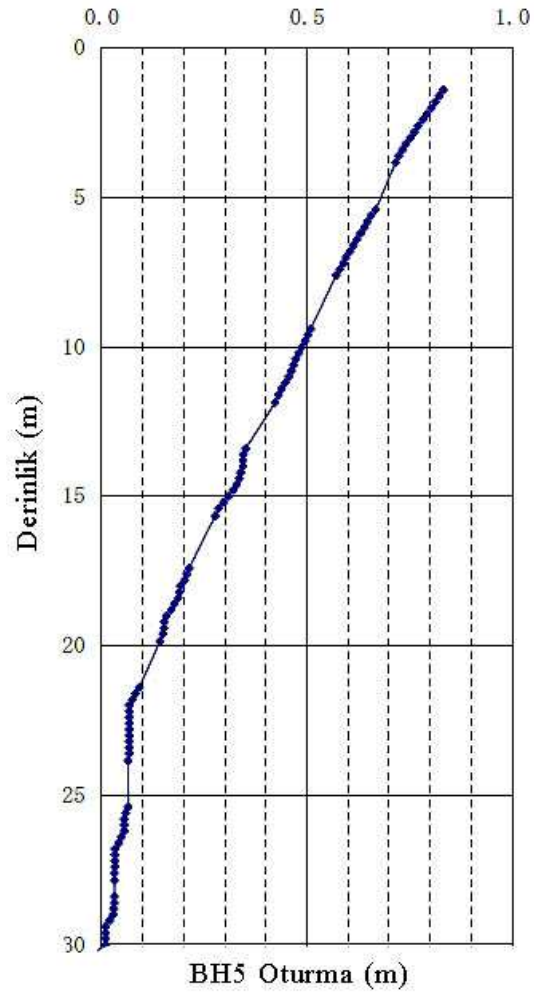
4.3.1.2. BH 5 Sondaj logu sıvılaşma ve oturma değerlendirilmesi

BH 5 sondajı toplam 58,15 metredir. Kuyu sonuna kadar yapılan CPT deneyinden elde edilen q_c - f_s değerleri şekil 4.7.'de ve oturma değerleri şekil 4.8 da gösterilmiştir.

BH 5 sondajının ilk 31 metresi kumdan oluşmaktadır. 31 metre ile 50 metre arasında kohezyonlu (kil-silt) bir zemin kesilmiştir. Daha altta ise kuyu sonuna kadar kumçakıl karışımı bir birim yer alır. 22 metreye kadar olan bölümde sıvılaşma olasılığı belirlenmiştir. 15 metre'nin altında kalan bölümünde güçlendirilme yapılması gerekmektedir.



Şekil 4.7 BH 5 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri

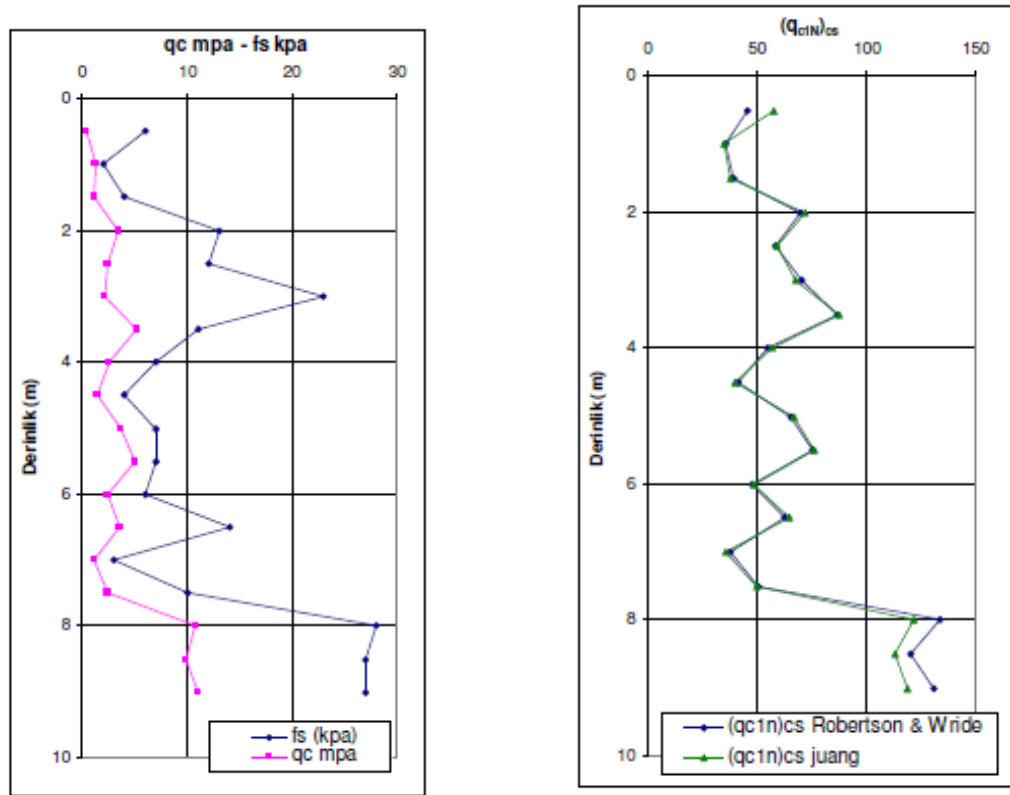


Şekil 4.8. BH 5 Sondaj logundaki oturma değerleri

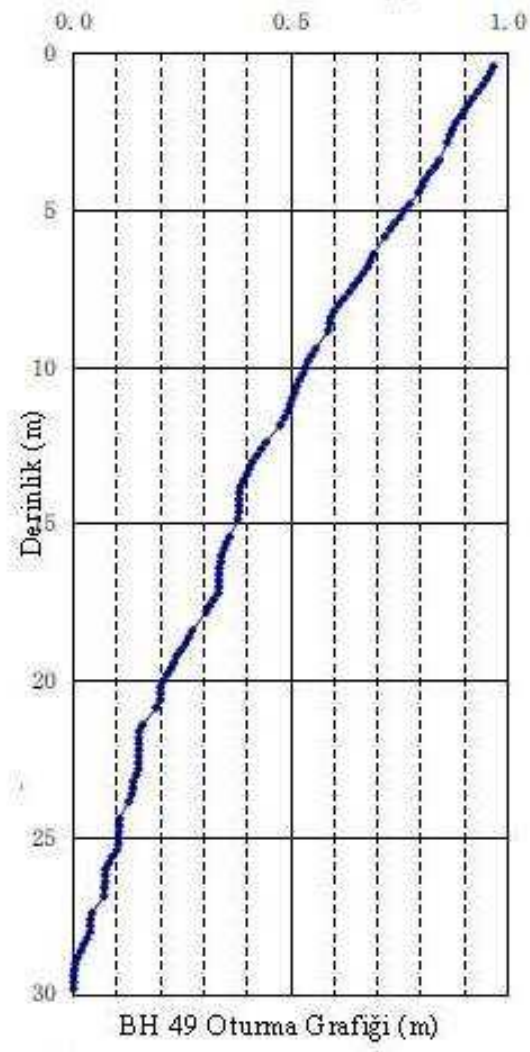
4.3.1.3. BH 49 Sondaj logu sıvılaşma ve oturma değerlendirilmesi

BH 49 sondajı toplam 9,00 metredir. Kuyu sonuna kadar yapılan CPT deneyinden elde edilen q_c - f_s değerleri şekil 4.9.'de ve oturma değerleri şekil 4.10 da gösterilmiştir.

BH 49 sondajı 9 metre boyunca kumdan oluşmaktadır. Sıvılaşmaya karşı güvenlik sayısı 9 metre boyunca 0,1 ile 1.0 arasında değişmektedir.



Şekil 4.9. BH 49 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri

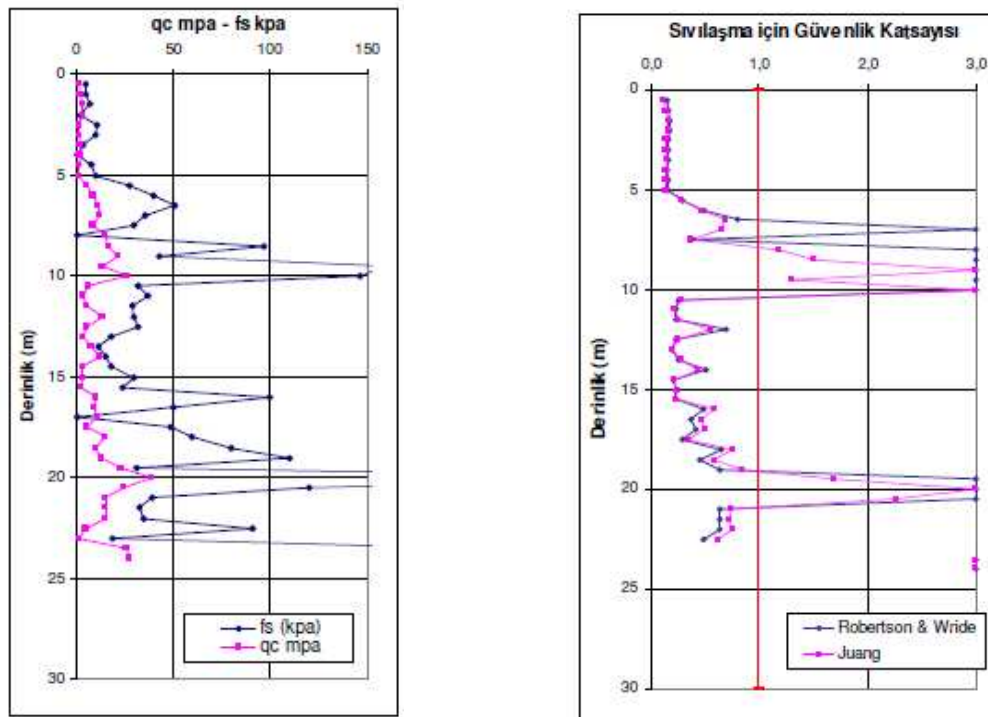


Şekil 4.10. BH 49 Sondaj logundaki oturma değerleri

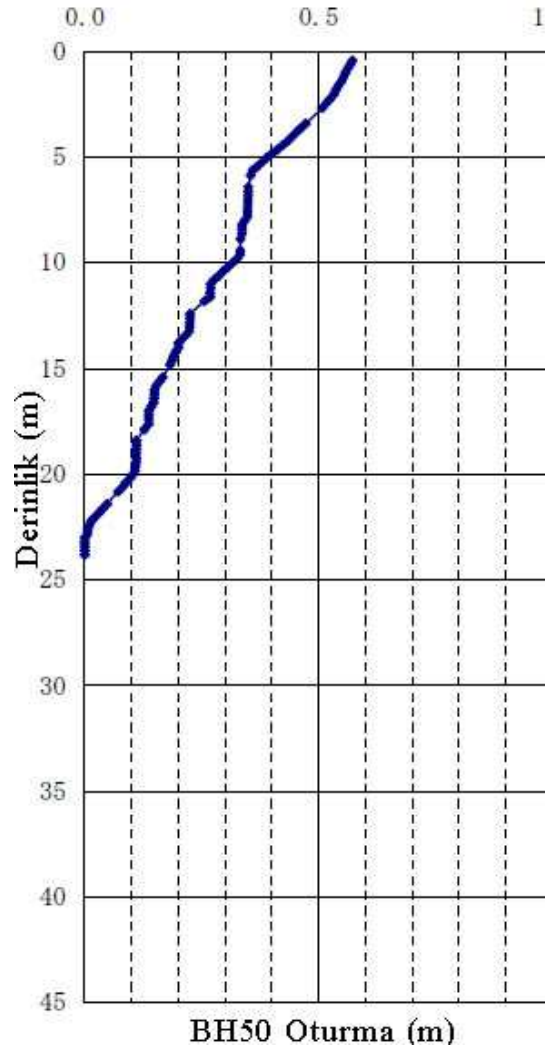
4.3.1.4. BH 50 Sondaj logu sıvılaşma ve oturma değeriendirilmesi

24,00 metreye kadar yapılan CPT deneyinden elde edilen q_c - f_s değeri şeki 4.11.'de ve oturma değeri şeki 4.12 de gösterilmiştir.

BH 50 sondajının ilk 23 metresi kumdan oluşmaktadır. 23 metreden sonra Trakya Formasyonu kumtaşları kesilmiştir. 22 metreye kadar kumlu birimlerde sıvılaşma hesaplanmıştır. Tünel Delme Makinesi ile birleşme noktası olduğundan ayrıca önemi olan bu noktanın güçlendirilmesi gerekmektedir.



Şeki 4.11. BH 50 Sondaj logundaki güvenlik katsayıları ve koni uç dirençleri



Şekil 4.12. BH 50 Sondaj logundaki oturma değerleri

Sonuç olarak; bu çalışmalardan BH4, BH5, BH50, BH49 sondajlarına ait bölgelerde sıvılaşma olduğu tespit edilmiştir.

Bu bölgelerden elde edilen bilgiler ve ölçümlerden yararlanılarak zemin iyileştirmesi öncesi sıvılaşma analizleri ve buna bağlı oturmaların tespiti yukarıda belirtilmiştir. BH4, BH5, BH50, BH49 için sıvılaşma analizleri yaklaşık 0 ile – 30 metre arasında yapılabilmektedir, çünkü – 30 metreden daha derinlerde sıvılaşma potansiyeli mevcut yükün fazlalığından dolayı gözlenmesi beklenmemektedir.

Sıvılaşma analizinde seçilen deprem, İstanbul için tasarlanan senaryo depremidir. Bu depremin büyüklüğü $M_w=7,5$ ve maksimum yer ivmesi ise $a_{max}=0,4m/sn^2$ seçilmiştir.

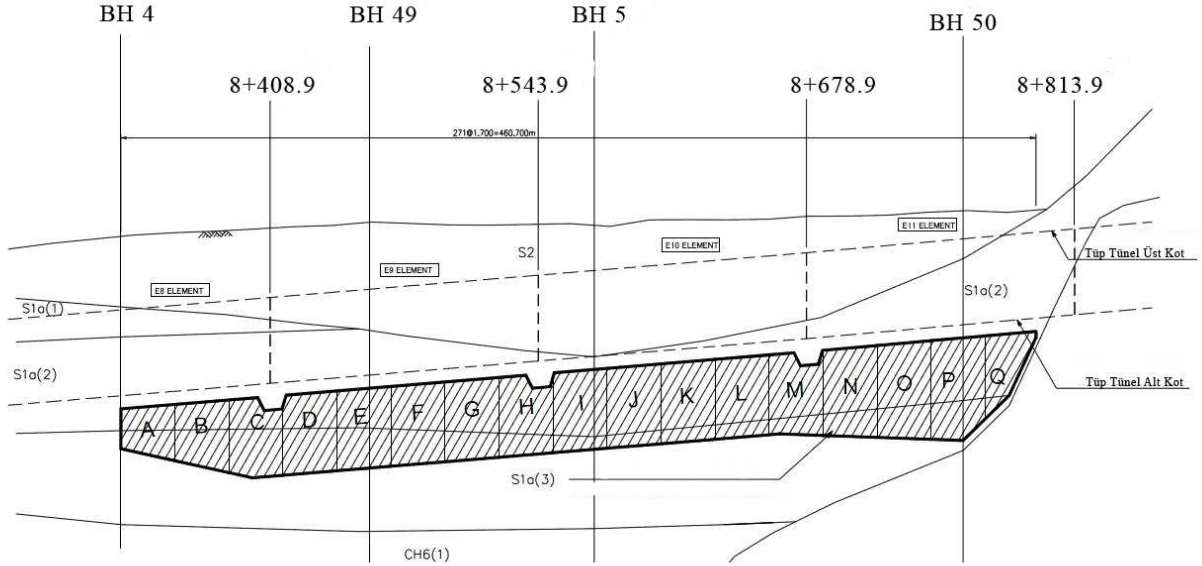
Batırma tüp tünelin sıvılaşma riski olan bölgelerine kompaksiyon enjeksiyon yöntemine başvurulmuştur.

Kompaksiyon betonlama, Marmaray Projesi'nin batırma tüp tünel bölümünün 4m den daha kalın sıvılaşma beklenen bölgelerde temel zemininin sıvılaşma potansiyelini en aza indirmek için uygulanmış bir yöntemdir.

Şekil 4.1.' de kompaksiyon enjeksiyon yönteminin uygulanacağı alan gösterilmektedir. Bu alanda uygulanmasının sebebi sıvılaşma riskinin yüksek olduğu bölgedir. Diğer bir uygulanan yöntem ise yer değiştirme metodudur. Bu yöntemde 4m den daha sığ derinliklerde mevcut zemin alınarak yerine genellikle çakıl içeren daha iyi bir malzeme konulması sureti ile yapılmaktadır.

4.4. Proje Kapsamında Kompaksiyon Enjeksiyon Yönteminin İşleyişi

Kompaksiyon betonlama, Marmaray Tüneli'nin batırma bölümünün temel zemininin sıvılaşma potansiyelini en aza indirmek için uygulanmıştır. Tünel temeli zemini, kompaksiyon enjeksiyonu ile iyileştirilecek olan sıvılaşabilir toprakların konumu şekil 4.13 de gösterilmektedir. Batırma tünelin sismik değerlendirmesi ile temel zeminlerinin sıvılaşma analizine dayanılarak, iyileştirme alanı istasyon (8+333.75)'dan istasyon (8+794.45)'a kadar yapılmıştır.



Şekil 4.13. Kompaksiyon enjeksiyonlama alanları

Marmaray Projesinde ait kompaksiyon betonlama işleriyle ilgili genel bilgiler;

Betonlama alanı	470,9 x 20,4 m
İyileştirilecek zeminin hacmi	74,468 m ³
Kullanılan harç miktarı	11,005 m ³
Kompaksiyon Harcı sütunlarının sayısı	2622 delik
Kompaksiyon Harcı sütunlarının uzunluğu	0,604 ve 10,282 arasında değişmekte

Tablo 4.1. de görüldüğü üzere, bir kompaksiyon betonlama operasyonu; hazırlık, delme, betonlama, bittikten sonra enjeksiyon borularının sökülmesi, delgi makinesinin diğer kompaksiyon deliğinin delinebilmesi için saat veya saatin tersi yönünde döndürülmesiyle bahsedilen kompaksiyon deliğinin konumunun çalışma dubasının manevrası ile sağlanması kısımlarından oluşmaktadır.

Tablo 4.1. Kompaksiyon Deliğinin Enjeksiyonlanmasının Zaman Akış Programı

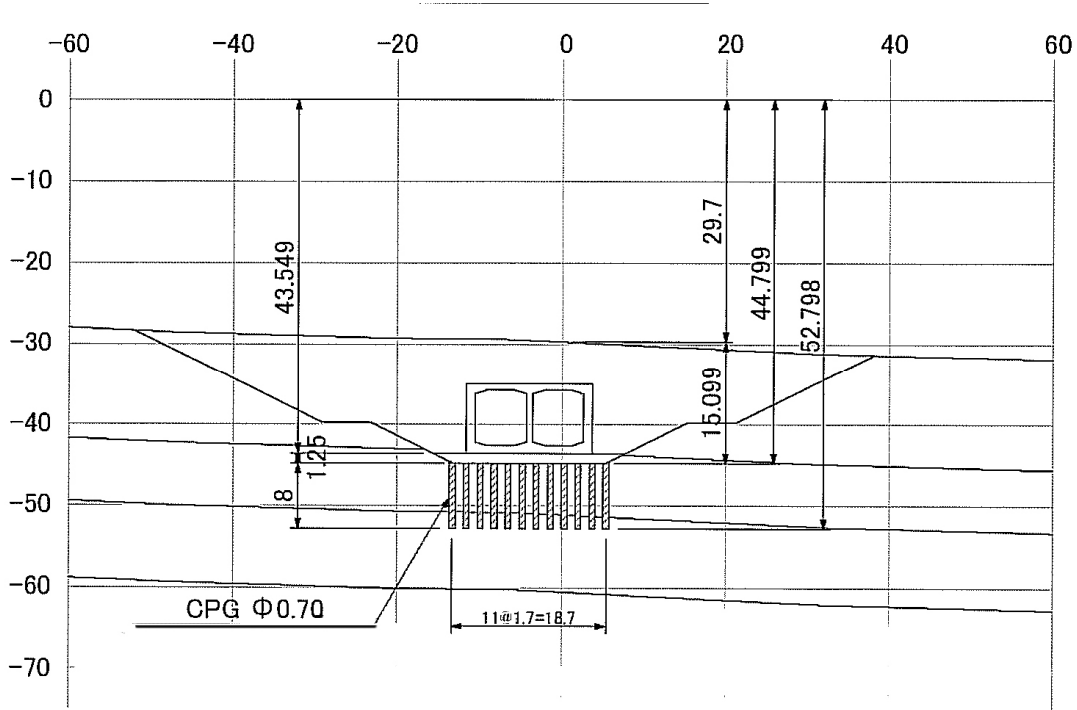
Operasyon		Zaman(dk)	Notlar
Hazırlık	Delgi Makinesinin Kurulumu	10	
	Betonlama Borularının Birleştirilmesi	15	
	Boruların Deniz zeminine indirilmesi	2	
Delme		45	Dakikada 1.5 m delme kapasitesi
Betonlama	Hazırlık	15	
	Betonlama	90	
Boruların sökülerek kaldırılması		20	0.06 m ³ /dk enjeksiyonlama
Delgi makinesinin döndürülmesi		15	
İnşaat Gemisinin Manevrası		1	
Toplam		213	

Kompaksiyon enjeksiyonunun temel mekanizması diğer yöntemlere kıyasla daha farklıdır. Kompaksiyon enjeksiyonunda yoğun ve beton harcına benzeyen bir zemin kütlesi zemine yüksek bir basınçta enjekte edilmektedir. Enjeksiyon esnasında bu harç homojen bir yapı sergilemekte ve zamanla hacim artışı olurken toprak içinde mukavemetçe de artmaktadır.

Kompaksiyon enjeksiyonlama sistemi, boşluk hacmi fazla olan zeminlerde, doğal geçirimli tanecikli tabakalarda, destek amaçlı köprü ayaklarının zeminlerinde, farklı oturmalara sahip zemin tabakalarının taşıma kapasitesinin artırılmasında kullanılır. Tünel altı zemin hareketlerini engellemek için son dönemlerdeki projelerin ana inşaa bölülerinden biri olarak uygulanmaya başlanmıştır. Marmaray Projesindeki öncül kullanım amacı ise uygulanan kısımda tünel boyu depremler veya aşarı yükler sonucu oluşabilecek potansiyel sıvılaşma riskinin giderilmesidir.

Kompaksiyon enjeksiyonlamanın temel mekanizması ve beton malzemesinin doğasındaki çok yoğun malzeme içeriğinden dolayı (malzeme çökme (slump) değeri çok düşük ve 7.5 cm'yi aşmaz) kontrollü enjeksiyonlar başarılı olmaktadır. Eğer iyileştirme tam olarak planlanırsa, sonuçlar tutarlı ve başarılı olmaktadır. Kompaksiyon enjeksiyonlama deliklerinin bir diğer avantajı ise basılan malzemenin

taşıma dayanımının yüksek olmasıdır. Her bir deliğe basılan beton malzemenin basınç dayanımı 3-15 MPa gibi bir aralıkta olmaktadır. Kompaksiyon enjeksiyonlarının konumu şekil 4.14. de gösterilmektedir.



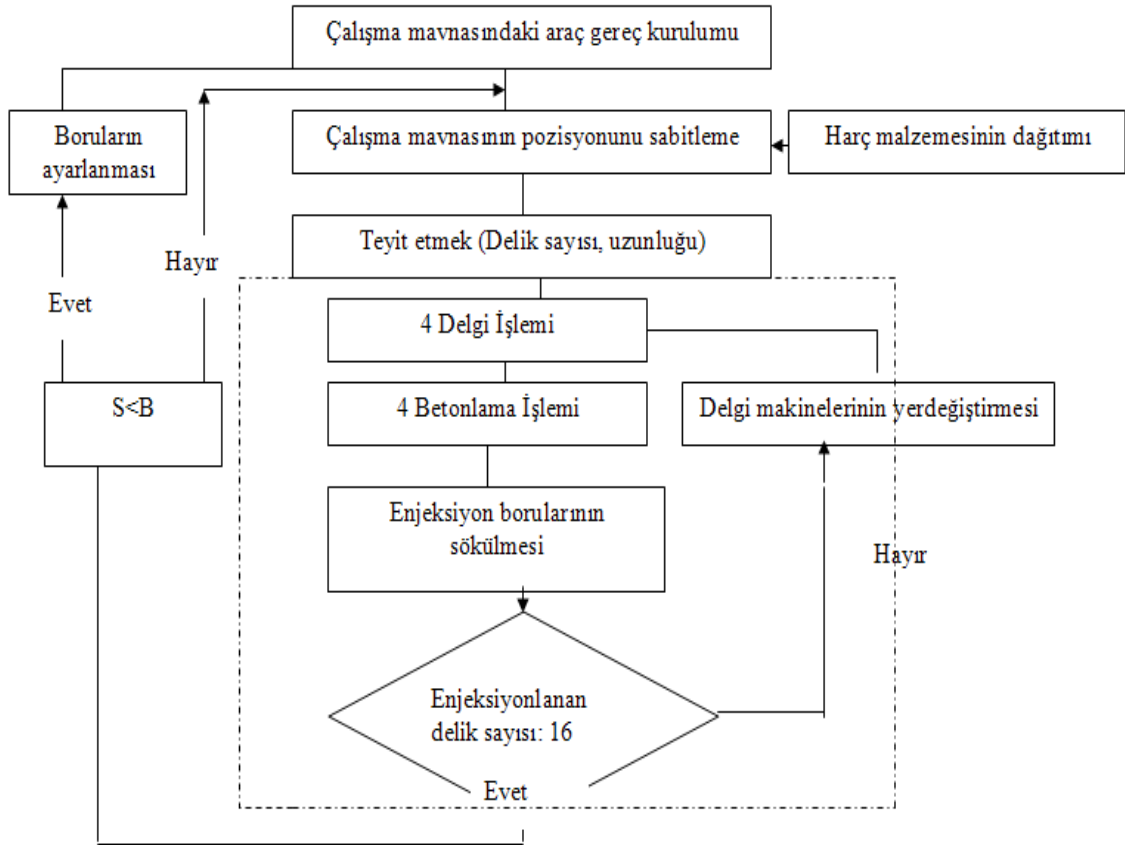
Şekil 4.14. Tipik Tünel boy kesiti ve Kompaksiyon Enjeksiyon kazıklarının konumu

4.4.1. Beton işleri

Beton işlerinin genel akışı şekil 4.15. de gösterilmiştir. Genel akış diyagramı aşağıdaki aşamalardan oluşur.

- 1- Çalışma mavnasındaki ekipmanların kontrolü
- 2- Enjeksiyon yapılacak bölgeye çalışma mavnasını yerleştirerek sabitlemek
- 3- Delik sayısı, delgi mesafesi, enjekte edilecek malzeme hacmi vb. önkoşulların kontrolü
- 4- Eş zamanlı olarak sondaj deliğinin delme makinesi ile tasarım derinliğine kadar delinmesi operasyonu
- 5- Eş zamanlı olarak dört sondaj deliğinin dört beton pompası ile enjeksiyonlama işlemi

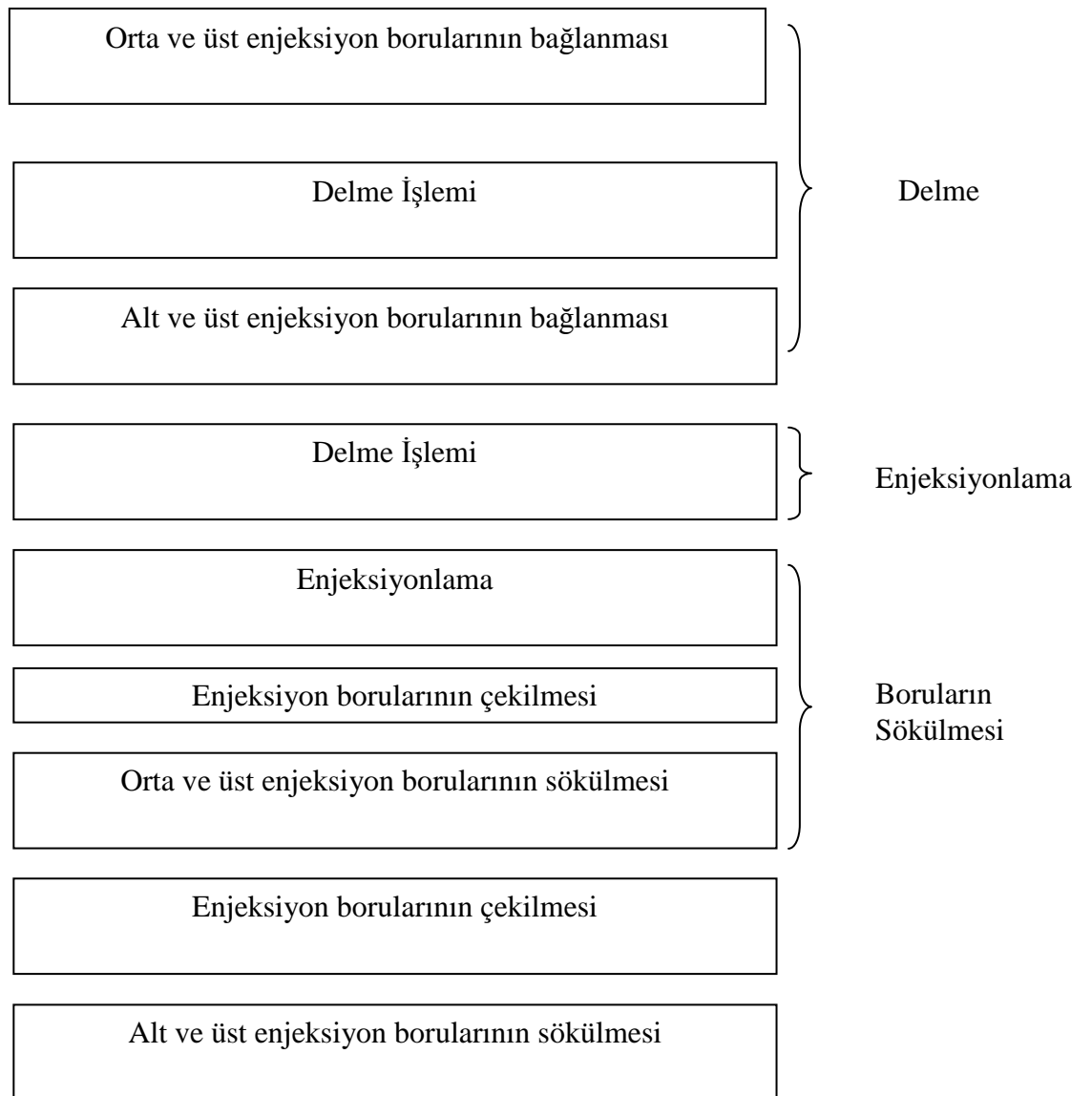
- 6- Enjeksiyon borularını bu dört delikten çekmek
- 7- Çalışma mavnası pozisyonunu koruyarak diğer dört delikteki delme ve enjeksiyonlama işlemi için delme makinelerinin döndürülmesi
- 8- Aynı işlemlerin (delme, enjeksiyonlama, delgi makinelerinin döndürülmesi vb.) geminin pozisyonunu koruyarak 16 deliğin enjeksiyonlama işlemini bitirene kadar devamı
- 9- Mavnanın yönü değiştirilmeden önce kılavuz borunun uzunluğu barge'ın yeni konumundaki giren su ile karşılaştırılmalıdır. Su girişi -10 m boru uzunluğundan az veya boru uzunluğuna eşitse, kılavuz borunun bir kısmı kesilmelidir. Aksi takdirde mavnanın bütün borular enjeksiyonlama devam edene kadar yeni konumuna değiştirilecektir.



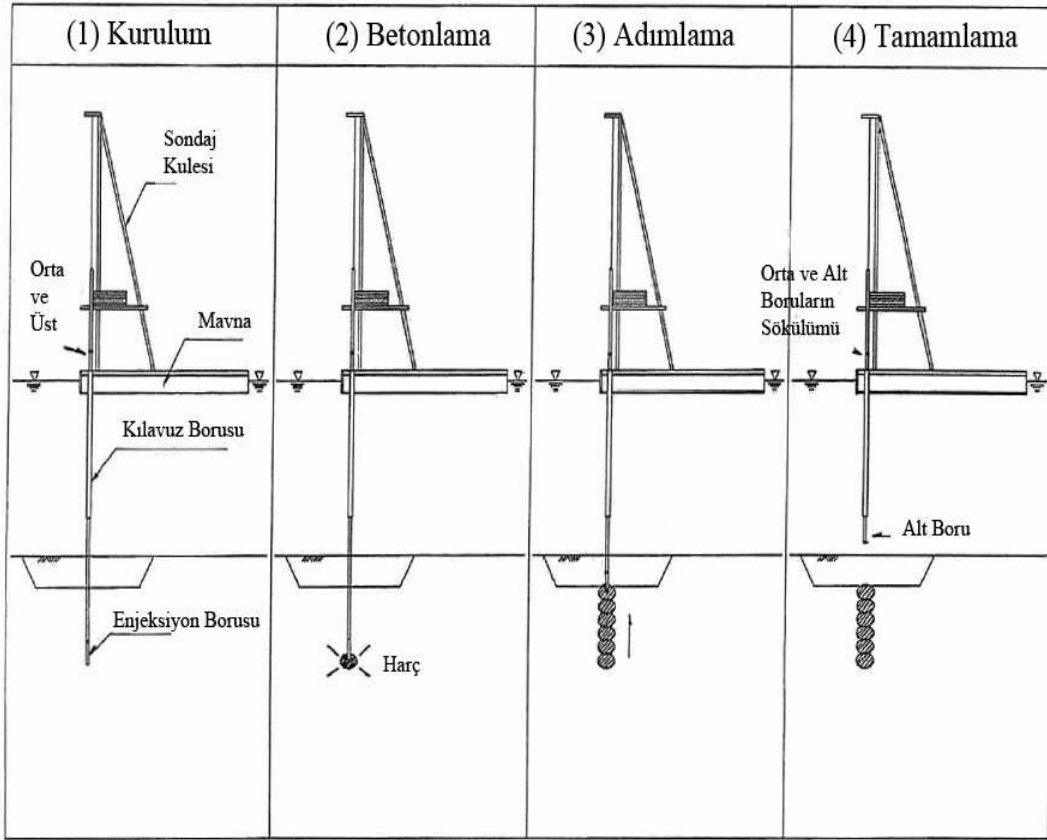
Şekil 4.15. Beton işlerinin genel akışı

Enjeksiyonlama Deliğinin Enjeksiyon Akış Şeması;

Tek bir delme borusunun betonlama için maksimum derinliği 54 metre civarında olmasına ihtiyaç duyulmaktadır. Bu uzunluğa erişebilmek için 3 boru (üst, orta ve alt) kümesi birbiri ile bağlanır. Enjeksiyonlama deliğini açma aşamaları şekil 4.16 akış şeması ve 4.17’de de deliği açarken kullanılan boruların konumu gösterilmektedir.



Şekil 4.16. Enjeksiyonlama deliğinin enjeksiyon akış şeması



Şekil 4.17. Tek Deliğin Delme ve Enjeksiyonlama İşi

4.4.2. Delme işlemi

Enjeksiyon borusu ve hortumu delme ve enjeksiyonlama işlemi için kullanılır. Enjeksiyon hortumu burada dağıtım borusu olarak tanımlanmaktadır. Tek bir deliğe ait delme işlemi aşağıda tarif edilmektedir.

Dağıtım hattının delme pompasına takılması

- 1) Delgi noktasal koordinatının delmeye başlamadan önce onaylanması
- 2) Deniz tabanına ulaşılan kadar delme/betonlama borularının akıntıya karşı kılavuz borularının içinden indirilmesi.
- 3) Delme suyunu (bentonit içerikli) 100–180 l/dak.
- 4) Dizayn derinliğine ulaşılan kadar zemine enjeksiyonlama devam eder.

- 5) İnşaat platform ve deniz seviyesi kotu mesafesi ölçülür ve seviye ölçerden veriler alınır böylece kullanılan borunun uzunluğu hesaplanır.
- 6) Platformun üstünde kalan delme borusu üst kısmının uzunluğunun hesaplanması ve her enjeksiyonlama en aşağıdaki harç bölgesine ulaşınca borunun çekilmesi.(bentonit karışımı herhangi bir sıkışıklıkta eklenebilir)
- 7) Delme pompası akışının durana kadar yavaş yavaş azaltılması
- 8) Delgi borusu dolana kadar bentonit karışımın basılması. Bu bentonit karışım delgi/enjeksiyonlama borularının enjeksiyonlama sırasında yukarı kaldırılmasını kolaylaştırır ve bir nevi yağlayıcı görevi görür. Bu karışım sayesinde delme işlemi hızlanır ve verim artmaktadır. Bentonit hacmi aşağıdaki gibi hesaplanmaktadır:
 - Bentonit karışım hacmi = $(\pi/4) \phi^2 L$
 - Φ : Enjeksiyon yapan borunun yarıçapı
 - L: Bentonitle doldurulmuş enjeksiyon borusunun uzunluğu
- 9) Dağıtım hattının enjeksiyon pompasına takılması delgi suyu ve harç malzemesinin ayrılması için harç tıkaçının (grout plug) dağıtım hattına kurulması.
- 10) Zemin araştırmalarına göre kompaksiyon enjeksiyonunun uygulandığı hat boyunca BH50 sondaj deliğinden tünelin Asya Tarafının 36,5 m sine kadar kaya tabanına rastlanmıştır. Bu kaya tabanının bulunduğu kısımda, iyileştirme sınırı kaya tabanı kotundan 1 m yukarisından başlanarak uygulanmıştır. Kaya tabanı kotunun durumu delmeye karşı zeminin uygulandığı dirence ve oranına göre yeniden şekillenebilmektedir.

4.4.3. Enjeksiyonlama

Betonlama işlemi her delik için tabandan yukarı yöntemi (bottom-up) uygulanarak gerçekleştirilmektedir. Bu yöntem aşağıda açıklanmaktadır;

- 1) Bütün materyallerin kontrolü (akış ölçer, pompalar)
- 2) Enjeksiyon borusunun tasarım derinliğine kadar ayarlanması ve bentonit karışımının içine doldurulması
- 3) Beton malzemenin enjeksiyonlama pompası ile zemine enjekte edilmesi

- 4) Bir sonraki enjeksiyonlama balonu için boruların yukarı (bu proje için 0.33 m) çekilmesi ve enjeksiyona devam edilmesi
- 5) En üstteki enjeksiyonlama balonuna ulaşana kadar enjeksiyonlamanın kademeli olarak devam ettirilmesi
- 6) Dağıtım hattı ve delme pompasının birbiriyle bağlanması. Ayrıca harç tıpasının (grout plug) dağıtım hattına delme suyu ve harç malzemesini ayırmak için montajı yapılır.
- 7) Boruların sökülmesi ve delme pompasından basılan basınçlı su ile boruların temizlenmesi.
- 8) Enjeksiyon borusunun üst kısmının orta kısımda kalandan ayrılması

Enjeksiyon malzemesi aşağıdaki koşulları içersinde kalınarak uygulanmaktadır;
Derinlik Aralığı: Her bir step arasındaki derinlik aralığı 0.33 m

Harç Hacmi: Her bir betonlama bölümüne enjekte edilecek hacim 0.143 m³ dür. Hidrodinamik basıncı ölçer, beton hacmini ve enjeksiyon basıncını kaydetmekte kullanılmaktadır. Hidrodinamik basıncı ölçer sayesinde her bir betonlama balonuna basılan hacimde kontrol altına alınmaktadır.

Limit Kriterleri: Beton enjeksiyonu tasarım hacmine veya 8 MPa basınca ulaşana kadar devam ettirilmelidir. Daha sonra, enjeksiyona son verilerek betonlama borusu diğer aşama için sökülmetedir.

Beton boruların sökümü sırasında ve daha sonrasında, beton akışının blokoja (malzemenin boru içine sıkışıp hareket edememesi durumunda) izin vermemesi durumunda, enjeksiyon süreci tasarım hacmine ulaşılana kadar devam etmelidir. Aksi takdirde, enjeksiyona son verilip borular sökülmekte ve delme-enjeksiyonlama uygulamasına kalınan derinlikten tekrar başlanmaktadır.

Enjeksiyonlama esnasında, delme makinesi enjeksiyonlama borusuna yukarı doğru döndürülerek kaldırmak için yeterli kapasiteye sahip olamayabilir. Bu durum, boru ile onu çevreleyen zeminin sıkışması sonucunda gerçekleşmektedir. sıkışma (jamming) olayıyla karşılaşıldığında ; borunun etrafına takılacak olan kriko

yardımıyla boru yukarı çekilmekte ve sıkışma giderilmektedir. Kriko yardımıyla boru yukarı çekilmekte ve sıkışma giderilmektedir. Krikoyla kaldırma uzunluğu 0.33 m (balon derinlik aralığı) veya daha az olmalıdır. Sıkışma kısmından çıkıldıktan sonra, normal enjeksiyonlama işleyişine devam edilmektedir. Enjeksiyonlama işlemi, istenen tasarım enjeksiyonlama hacmine ulaşılmadan boru sıkışması, delme makinesinin arızası, büyük çaptaki platform hareketleri yüzünden sonlandırılabilir. Böyle bir durumda kalan enjeksiyonlama balonlarını bitirmek için tasarım noktasına manevra yapılmaktadır, söz konusu nokta derinliğe kadar delinmekte ve enjeksiyonlama işleyişi kaldığı yerden devam etmektedir.

İyileştirme yapılacak alan ve kompaksiyon enjeksiyonun deliklerinin yerleşim planları; zemin sıvılaşması ve tünel stabilite analizi sonucunda; sıvılaşma potansiyeli ve oturma riski yüksek olan tünel zemin kısmının, kompaksiyon enjeksiyonlama tekniği uygulanarak deprem yüklerine karşı koyması ve tünel güvenliği açısından %13.3 oranında iyileştirilmesi yoluna gidilmiştir. Çalışma dubasının konumlandırma uygunluğunu sağlamak ve yapacağı manevra sayısını en aza indirmek için, enjeksiyonlama delikleri kare kalıp üzerinde dizilmektedir. İyileştirme oranında (as) beton deliklerinin çapı ve aralığının farklı kombinasyonları ile erişilebilmektedir. Kompaksiyon enjeksiyonlama deliğinin çapı (Φ), 0.7 m ve delik aralığı (S) aşağıda verilen 6.1 formülü kullanılarak iyileştirme oranı olan %13.3'ün sağlanması için şu şekilde hesaplanmıştır:

$$- S = \sqrt{(\Phi^2 \pi / 4 \text{ as})} = (\pi (0.7)^2 / 4 \times 0.133) \approx 1.7 \text{ m}$$

İyileştirme kısmı İstasyon (8+333.75)'ten başlayarak İstasyon (8+794.45)'e kadar uzanmaktadır. Toplam uzunluğu 460.7 m 'dir. İyileştirme alanının genişliği 20.4 m ve kompaksiyon enjeksiyonlama deliklerinin maksimum uzunluğu 10.282 m'ye kadar çıkmaktadır.

Enjeksiyonlama deliklerinin dizilimi; enjeksiyonlamanın önemli parametrelerinden biri de enjeksiyonlama dizilimidir. Verimli bir şekilde tasarlandığı takdirde;

iyileştirme önemli ölçüde arttırmaktadır. Enjeksiyonlama dizilimine karar verilirken üç kontrol ölçütü göz önünde bulundurulmalıdır.

- 1- Tüneli merkez kısmının altındaki tesis zemininde olabilecek en büyük iyileştirmeyi elde etme.
- 2- Ekipmanların kurulumu
- 3- Çalışma mavnasının manevrası

Bu kriterler dikkate alınarak; enjeksiyonlama Marmaray Projesi için aşağıda bahsedildiği gibi belirlenmiştir;

- Her bölümde kompaksiyon enjeksiyonlama delikleri yatay hizada enjekte edilebilmektedir.
- Her enjeksiyonlama bölümü 16 yatay ve 12 düşey hattan oluşmaktadır.
- Her bir manevra bitiminde kurulmuş olan 4 delgi makinesinde toplamda 16 delik bitirilebilmektedir.
- Her iki yatay hat (1'den 12'ye kadar düşey hatta sahip olan) iki manevra halinde doldurulmaktadır. İlk 16 delik bitirildikten sonra, bu bitirilmiş 16 delik arasındaki kalan 16 delik doldurulmaktadır. Bu işlemler diğer tüm yatay 2'li hatlar için de uygulanmaktadır. Bu şekilde uygulanan birincil ve ikincil manevra uygulamaları daha düzenli iyileştirmeler sağlamaktadır.4 set halinde çalışma dubası üzerine monte edilmiş delme ve enjeksiyonlama ekipmanlarının rotasyon özellikleri sayesinde bir manevrada 16 delik bitirilmektedir.

Enjeksiyonlama düzeni şöyle özetlenmektedir;

- Yatay yönde toplam bölüm sayısı = 17 bölüm
- Her bir bölüm için yatay yönde hat sayısı=16 hat (Örnek Bölüm Q,Q01 den Q16' ya kadar
- Dik yönde hat sayısı = 12 hat (Q01-02)
- Her bir çalışma dubası manevrasında bitirilebilecek enjeksiyonlama deliği sayısı: 16 delik
- 2 adet çalışma dubası manevrasıyla bitirilebilecek yatay hat sayısı = 2 hat
- Her bir bölüm için maksimum manevra sayısı = 12 manevra

Çalışma dubasının konumu her bir bölüm için veya kalıptaki delik konumlarına göre ayarlanmaktadır. Çalışma mavnasının konumu şekil 4.18’de görülmektedir.



Şekil 4.18. Zemin iyileştirme çalışmalarını yapan Gemi (SARIII)

Kompaksiyon enjeksiyonlama delikleri her bir bölüm için bölümün alt tarafından başlanıp daha sonra üst tarafa geçirilerek yapılmaktadır. Bu uygulamanın amacı; alt ve üst taraflardaki uygulanan beton malzemenin, bölümün orta kısmını kompaksiyon enjeksiyonlama uygulanmadan bile sıkışmasını sağlamak ve sıvılaşma riskini nispeten azaltmaktır. Tünel orta zemin kısmı tünel elemanı için en önemli kısımdır.

Kompaksiyon enjeksiyonlamanın gerçekleştirildiği Armarin 3 isimli dubanın konumlandırılması aşağıdaki gibidir:

- Kompaksiyon enjeksiyonlama delikleri 17 ana bölümde yatay yönde her bir bölüm için 9 ile 12 arasında değişen manevra sayıları ile doldurulmaktadır.

- Konumu kontrol edebilmek için 4 adet delgi makinesinin tam orta noktası (way point) seçilerek ve çalışma dubasının konumlandırılması bu nokta dikkate alınarak gerçekleştirilmektedir.

- Şekil 4.19' de işaretlenmiş olan orta nokta (way point) uygulaması görülmektedir. Bu merkez noktalar delgi makinelerinin konumlarını tasarım koordinatları üzerine sabitlemeye yaramaktadır. Orta nokta (way point) ile her Kompaksiyon enjeksiyonlama deliğinin arasındaki uzaklık sabit ve kesindir. Çalışma dubasının konumu ve duruşu açısı (pruva) orta noktayı sağlamalıdır.

- Eğer delgi makinelerinin birinde veya birkaçında herhangi bir arıza olursa ekstra orta noktalar belirlenebilmekte ve arızalı olan makinelerin delikleri çalışır durumdakiler tarafından yapılabilmektedir.

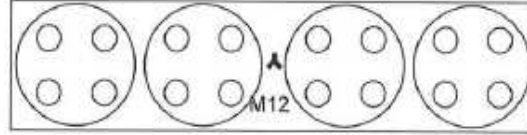
- Çalışma dubasının hareketleri, duba kaptanı ve ona bağlı mürettebatın kontrolünde yapılmaktadır. Dubanın konumlandırılması RTK-GPS (Real Time Kinematic-Global Position System) kullanarak sağlamaktadır. GPS (Global Position System) alıcısı çalışma dubasının kaptan köşkündeki bilgisayara bağlanmakta ve aynı GPS önceden koordinatları bilinen karadaki baz istasyonuna monte edilmektedir. Karşılaştırılmış veriler bilgisayar ekranına iletilmekte ve karadan elde edilmiş koordinatları bilinen orta nokta (way point) değeri ile çalışma dubasının konum değeri aynı yapılmaya çalışılmaktadır.

- Bilgisayara bağlı gyrocompass ile de geminin baş açısı (pruva) kontrol edilmekte ve bu açı tünel plan eğimine göre ayarlanmaktadır.

- İstenilen konum sağlandıktan sonra, çapa ve halat sistemleriyle çalışma dubasının hareketi kontrol altında tutulmaktadır. Halat sistemleri ; ırgat (vinç) hidrolik sistemlerinin yardımıyla mayva-vira (boşalt-çek) prensibine göre yönlendirilmektedir.

- Çalışma dubası koordinat orta noktadan uzaklaşabileceği en yüksek limit uzaklık sadece 20 cm'dir. Her manevradan sonra bu uygunluk şartı saha mühendisi ve duba

kaptanı tarafından kontrol edilmektedir. Bu kontroller delme ve enjeksiyonlama sırasında periyodik olarak sürdürülmektedir. Koordinattaki hata uzaklığı limiti aşmışsa operasyon saha mühendisi tarafından durdurulmalı ve daha sonra gemi yeniden konumlandırılarak süreç kaldığı yerden devam ettirilmelidir.



Şekil 4.19. Waypoint gösterimi (M 12 noktası)

4.4.4. Malzeme

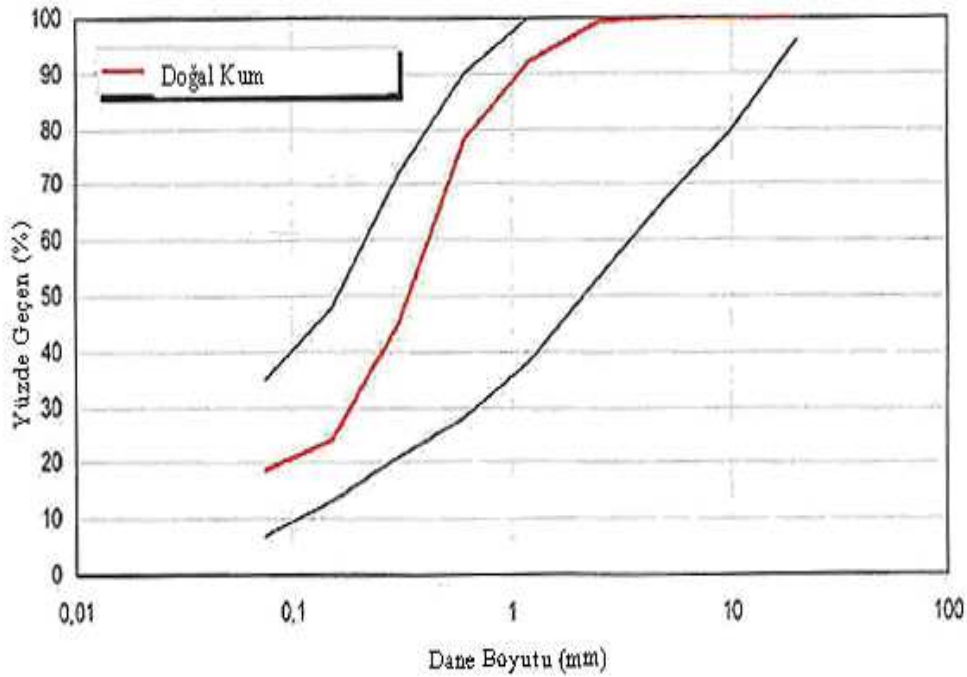
Geçerli tasarım şartları, zeminin boşluk hacmini yeterince doldurarak ve gerekli iyileştirmeyi sağlamak amacıyla hacimsel olarak iyileştirecek zemine denk düşen hacimde beton basılarak elde edilmektedir. Bu bağlamda, iyileştirme oranı boşluk hacminin ne kadarının beton hacmi ile doldurulduğunun göstergesidir. Bu yaklaşım, farklı beton-zemin arayüzlerinde basılan beton tarafından uygulanan basıncın sonucunda doğan zemin partiküllerindeki göreceli deplasmanların sıkıştırılmasıyla elde edilmiş iyileştirmeye dayanmaktadır. Beton malzemesi zemin gözenekleri arasından yayılan masif bir kütle halinde homojen bir durumda mukavemetini kazanmaktadır. Bu mekanizmanın sağlanmasındaki ana etkenler, beton malzemesinin bileşimi ve karakteristikleridir.

Beton malzemesi agrega, çimento ve suyun ölçülerdeki karışımıyla elde edilmektedir. Zemin içinde basıldıktan sonra permetasyon (sızma) yapmayan beton kabiliyetini sağlamak için, beton malzemesinin kesme dayanımının (shear strength) çevrelediği zemininkinden daha yüksek olması gerekmektedir. Söz konusu bahsedilen dayanımı sağlamak amacı ile özel bir granülometreye sahip agrega kullanılmaktadır.

4.4.4.1. Özel agrega

Daha önceki tecrübeler Şekil 4.20. de görülen granülometriye göre belirlenen çakıl, kum, silt ve kil oranlarının efektif sonuçlar verdiğini göstermiştir. Buna göre, agrega

granülometrisi çizelge de verilen sınırlar içerisinde olmalıdır. Söz konusu granülometriye sahip agrega içeriğinin sağlanması sayesinde, uygulama esnasında oluşabilecek beton malzemesinin yüksek basınç, blokaj (hareketini engelleme) gibi operasyonun verimliliğini olumsuz etkileyen durumlar en aza indirgenmiş olmaktadır. Seçilen doğal kum (Ömerli Ergören) granülometrisi kırmızıçizgi olarak şekilde gösterilmiştir. Bu projede beton teslim hattı (beton üretim tesisi ile iyileştirilecek deniz tabanı zemin kotu) göreceli olarak 100–110 m arasında değişmektedir. Bu uzaklık yüzünden, beton pompa kabiliyeti geliştirilmelidir.



Şekil 4.20. CPG'de kullanılan Doğal Kum Granülometri Eğrisi

Tablo 4.2 Grout Malzemesi Karşımı

Malzeme	Oran
Özel Agrega	0.85 m ³
Çimento	0.065 m ³
Deniz suyu	0.085 m ³
Toplam	1 m ³

4.4.4.2. Çimento

Cürüflu çimento (CEM III. B 42.5 N) harç malzemesinin içinde kullanılmıştır. Kompaksiyon enjeksiyonunun deneme çalışmasında kullanılan bu Cürüflu çimentonun basınç dayanımı bakımından tatmin edici sonuçlar verdiği gözlemlenmiştir.

4.4.4.3. Karışım suyu

Karışım Suyu olarak deniz suyu kullanılmıştır. Marmara deniz suyunun tasarlanan çökme (slump) dayanımı sağladığı karıştırma deneylerinde (mixing test) saptanmıştır.

Karışım Dizayn ve Harç Slump Değeri; tablo 4.2. de harç malzemesinin kompozisyonunu göstermektedir. Harç malzemesini karakterize eden önemli bir etken slump değeridir. Maksimum slump değeri ve standart kompaksiyon betonlama slump deneylerine göre 7.5 cm olarak kararlaştırılmıştır. Maksimum beton slump değerinin 7.5 cm değerine erişmek için, su karışım oranı agreganın kuru haldeki rutubet ihtivasına göre ayarlanmaktadır. Akış ölçer ile sabit su oranı temini kontrol edilmektedir.

Eğer pompalamayı kolaylaştırmak için uçucu kül kullanılırsa çizelgedeki oranlama karışım hazırlanırsa değiştirilebilir.

Doğrulama Testi; basınç dayanımı deneyleri 7.5 ve 8.0 cm arasında slump değerlerinde olan beton numune üzerinde uygulanmıştır.

Grout Hacmini Hesaplama; tünel zemin hattının (İstasyon (8+333.75)'ten başlayarak İstasyon (8+794.45 arası) 461 metrelik kısmında sıvılaşma potansiyelini olabildiğince azaltmak için, % 13.3 iyileştirme oranı ile kompaksiyon enjeksiyonlama yapılmıştır.

Beton malzemesi için sıkışma katsayısı 0.9 olarak seçildiğinde, uygulanacak olan toplam beton malzemesi aşağıdaki gibi hesaplanmaktadır:

$$\text{Grout Hacmi} = (V_{ts} \times a_s) / C_c = (74468 \times 0.133) / 0.9 = 11005 \text{ m}^3$$

V_{ts} : iyileştirilecek zemin kısmının toplam hacmi (74468 m³)

a_s : İyileştirme oranı (%13.3)

C_c : Beton sıkışma katsayısı

Harç Karışım Oranlaması; beton malzemesi çimento, özel agregası (ince taneli kum ağırlıklı) ve suyun karışımından oluşmaktadır. Bu malzemeler sürekli olarak karıştırılmakta ve beton pompasından basılmaktadır. Gerekli karışım tasarımını elde etmek için, çimento besleyicisi ve CPG karıştırma tesisi kum girişinin düzenli olarak kalibre edilmesi gerekmektedir. Kalibrasyon ile elde edilen sonuçlar, tasarım karışım oranlarıyla karşılaştırılarak yeniden düzenlenmelidir.

Kalibrasyon aşağıda 3 adımda yürütülmektedir;

1) Çimento Besleyicisi; önceden kararlaştırılmış sabit bir sürede basılan çimento miktarının belirlenmesi ile kalibre edilmektedir. Tek bir sabit süre de basılan çimento miktarı, daha önceden yapılan ölçümlerle karşılaştırılmakta ve sistem buna göre düzenlenmektedir.

2) Agregası Girişi daha önceden belirlenmiş tek bir sabit süre için; farklı giriş kurulumlarında sisteme katılan agregası miktarının belirlenmesiyle kalibre edilmektedir.

3) Adım (1) deki sonuçları ve betonun 1 m³ için çimento miktarı esas alınarak 1 m³ beton için kaç adet sabit süre gerektiği ölçülmektedir. Daha sonra aynı sabit süre, adım (2) sonuçları kullanılarak 1 m³ beton malzemesi ayarına karar verilmektedir.

Kompaksiyon enjeksiyonlamanın kabul edilebilirlik kriterleri; Marmaray Projesine ait kompaksiyon enjeksiyonlama zemin iyileştirme operasyonunun başarıyla tamamlanabildiğini ispatlayan kabul edilebilirlik ölçütleri tablo 4.3. de gösterilmiştir.

Tablo 4.3. Kompaksiyon Enjeksiyonlamamın Kabul Edilebilirlik Kriterleri

Kompaksiyon Enjeksiyonlama	Kabul Edilebilir Ölçüt	Açıklamalar
Beton Malzemesi	Slump < 7.5 cm	
Beton Malzemesi	Mukavemet > 2 MN/m ² (MPa)	28 günlük küp Basınç dayanımı
Delme Konumu	± 20 cm	Çalışma Dubasında
Delme Açısı	± 0.5°	Delgi borusu 90°
Beton Hacmi	± 0.01 m ³	
Çimento		
Agrega	Şekil aralıkta	
İyileştirme	Sıvılaşma güvenlik, bağıl yoğunluk ve oturma miktarı iyileştirme yapıldıktan sonra CPT sonuçlarına göre hesaplanmaktadır.	

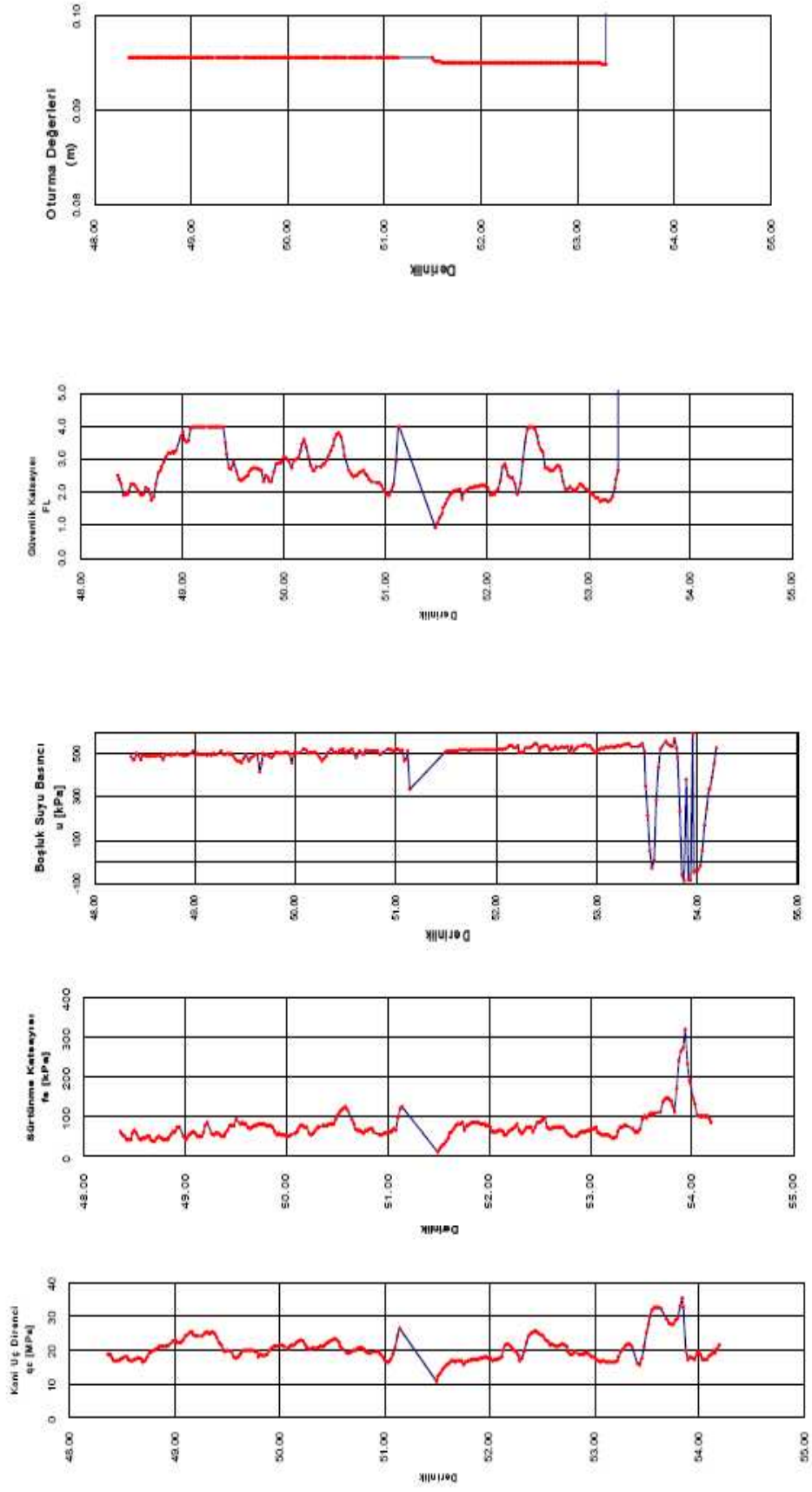
BÖLÜM 5. ZEMİN İYİLEŞTİRMESİ ETKİNLİĞİNİN DEĞERLENDİRİLMESİ

Kompaksiyon enjeksiyonu ile zemin iyileştirme etkinliğinin değerlendirilmesi, enjeksiyonlama sonrasında yapılan CPT deneylerinin sonuçları ile gerçekleştirilmektedir.

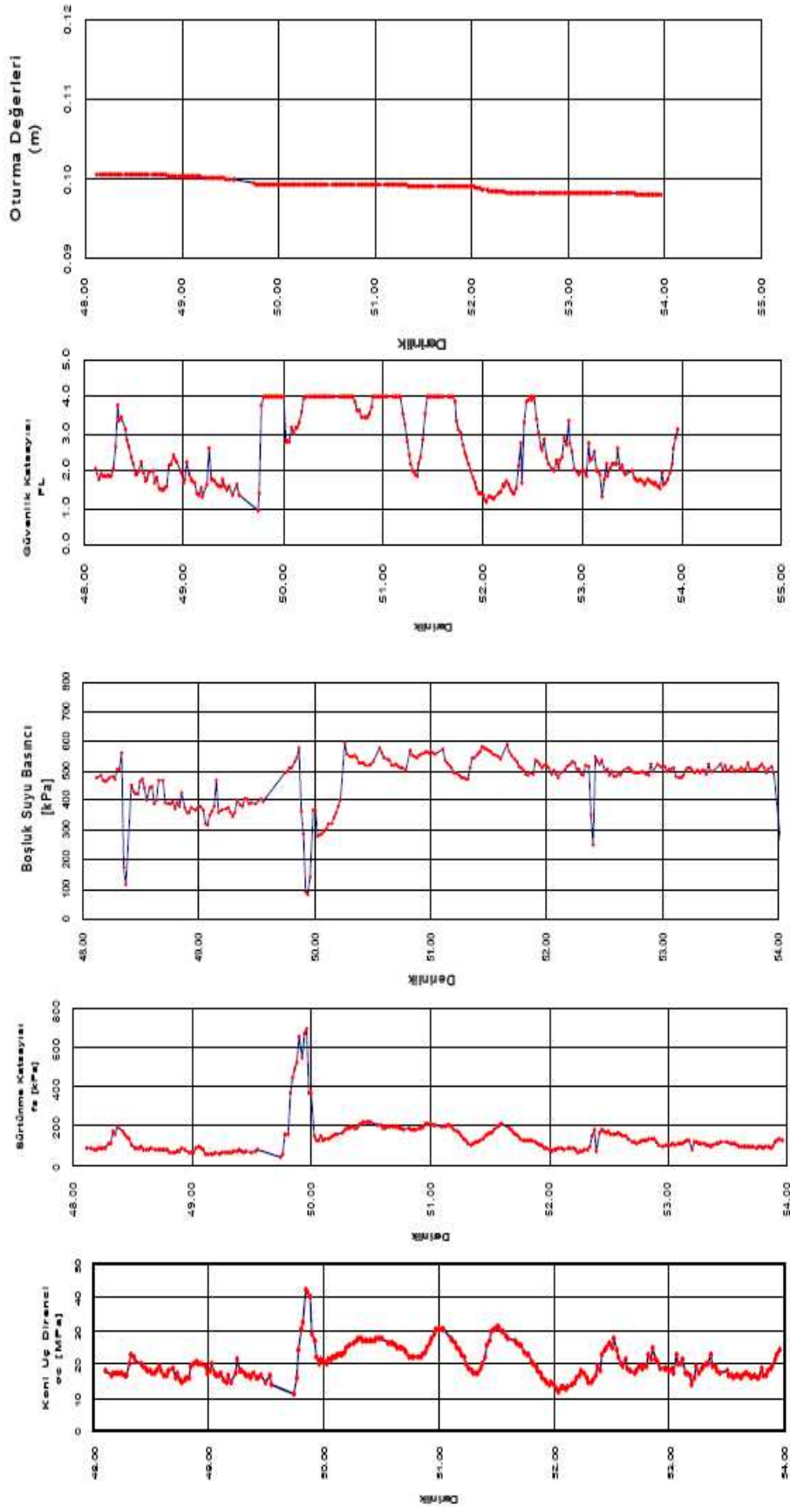
CPT sonuçları, kompaksiyon enjeksiyonlama ile iyileştirilmiş zeminin sınıvlaşma durumunda değer biçmek için kullanılmaktadır. Enjeksiyonlama bittikten sonra CPT özel üretilmiş koni penetrasyon sistemi kompaksiyon enjeksiyonlama hattı boyunca önceden seçilmiş yerlerde uygulanmıştır.

Sınıvlaşmaya yönelik çalışmalarımızda temelinde CPT verileri ile NCEER (1997) yöntemini esas alan Excel ortamında hazırlanmış bilgisayar programı kullanılmıştır. Sınıvlaşma analizleri yapılırken deprem büyüklüğü, deprem risk analizi sonuçlarına göre Ms; 7,5 en büyük yatay yer ivmesi hesaplarına göre de $a_{max} = 0,41g$ alınmıştır. CPT verilerine dayanılarak yapılan sınıvlaşma analizi sonuçları şekil 5.1 den şekil 5.17'ye kadar görülmektedir.

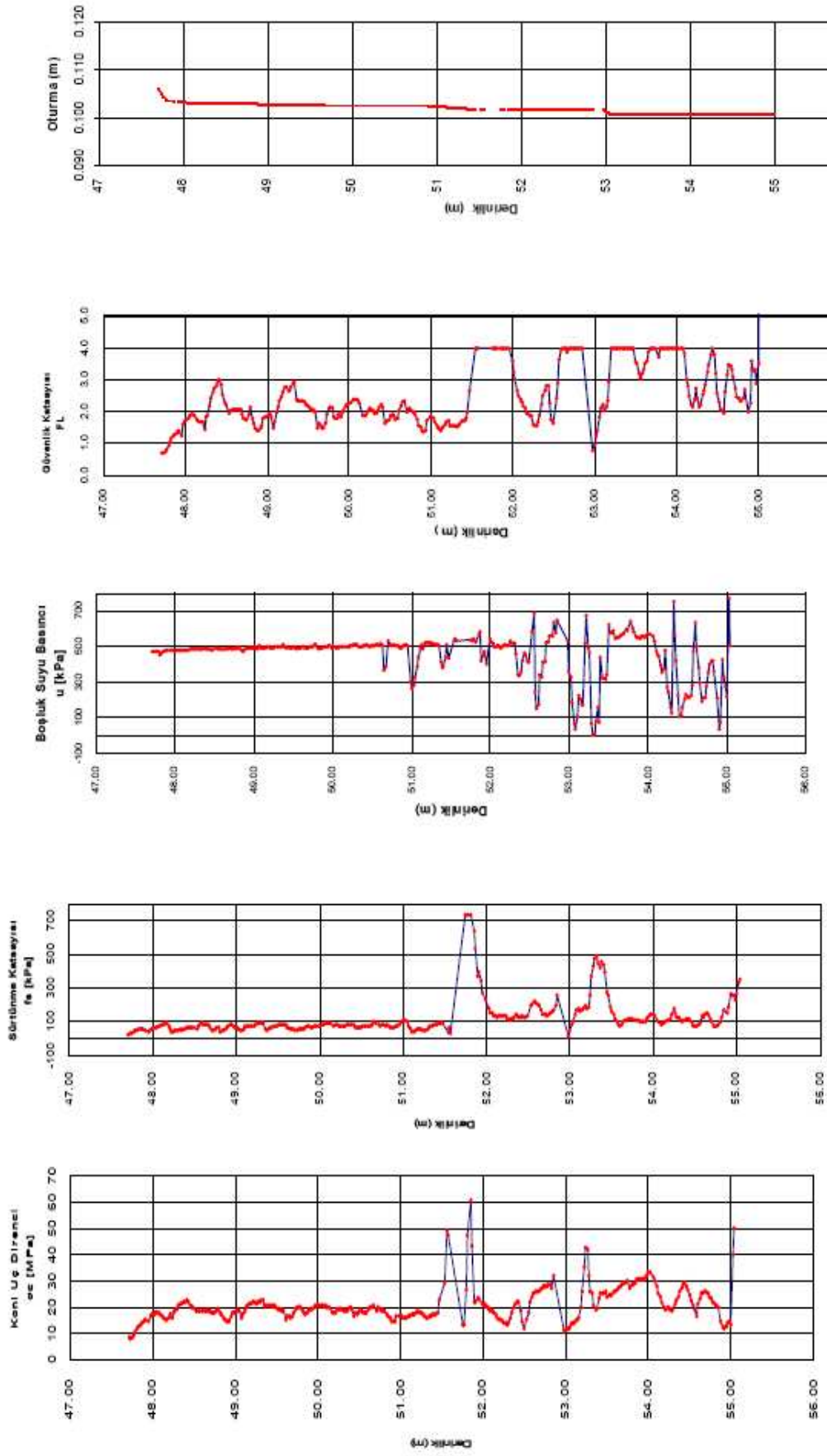
Grafiklere bakıldığında koni uç direnleri zeminde sıkışma gerçekleştikçe artmakta ancak kompaksiyon enjeksiyonunun farklı derinliklerde ne kadar zemini sıkıştırdığı da göz önünde bulundurulmalıdır. Yani bazı bölgelerdeki sıkışma miktarının az olması uç direncinin derinliklere inildikçe artacağı anlamı taşımaz.



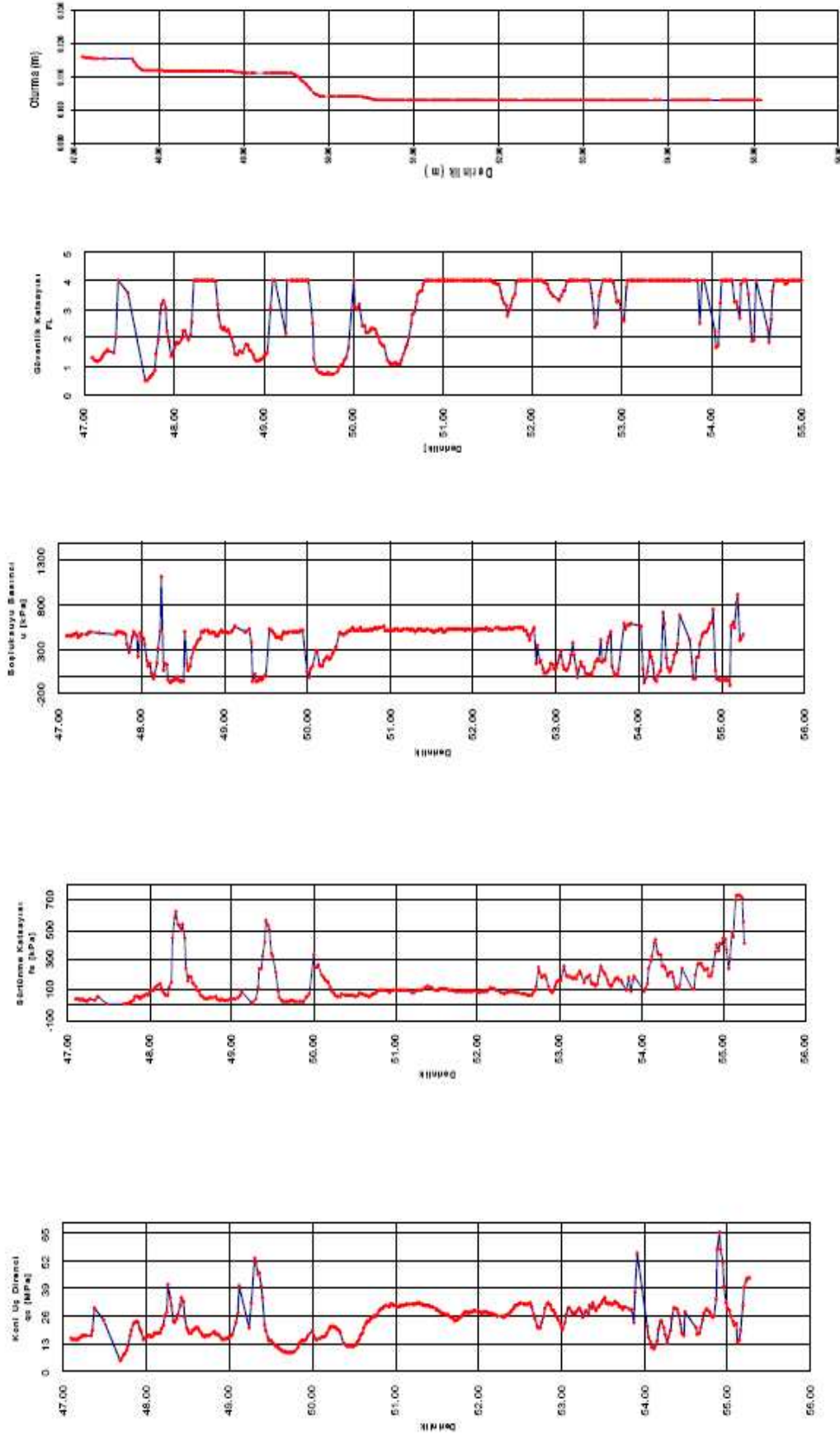
Şekil 5.1. A Bölgesi CPT sonuçları



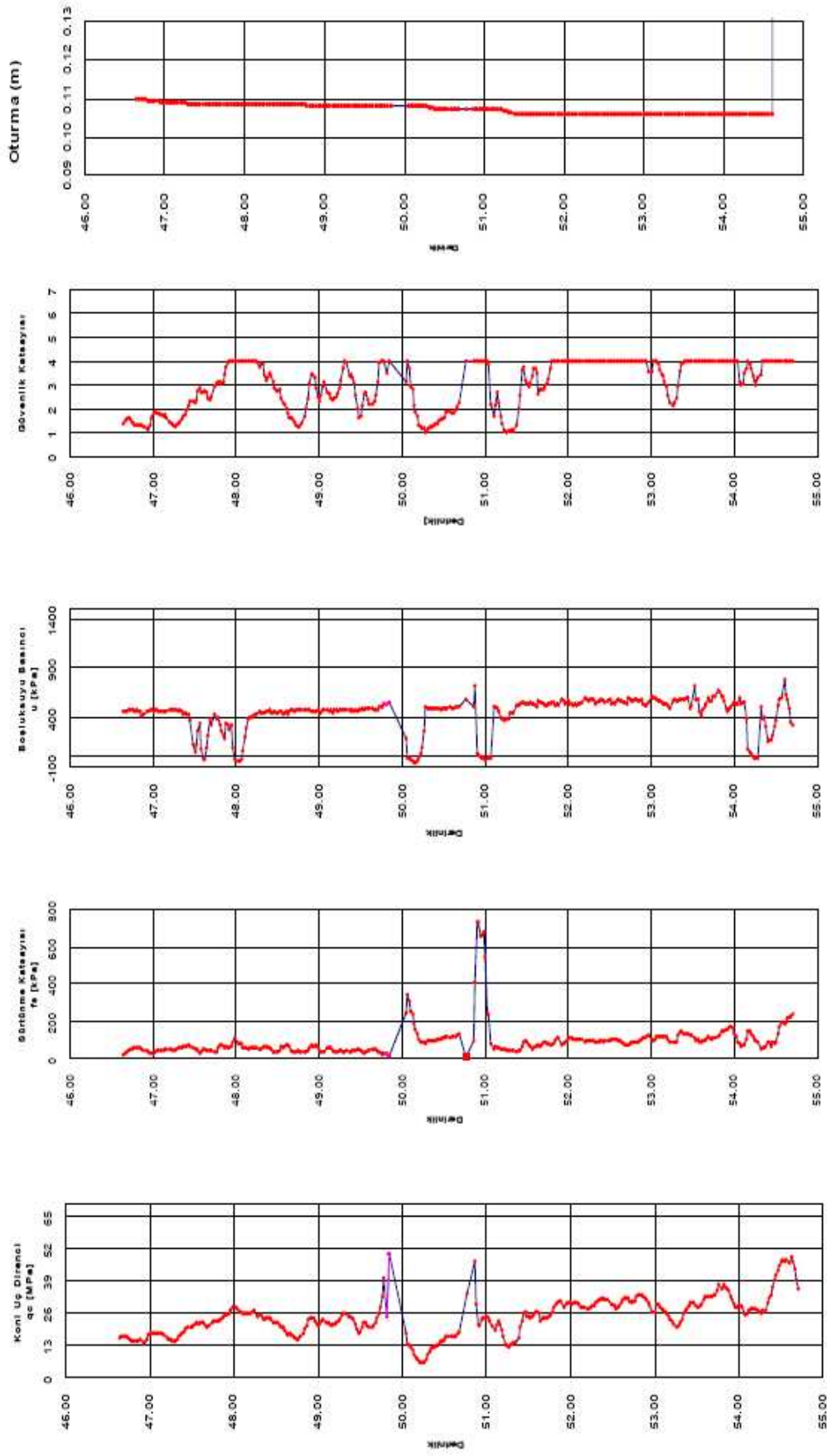
Sekil 5.2. B Bölgesi CPT sonuçları



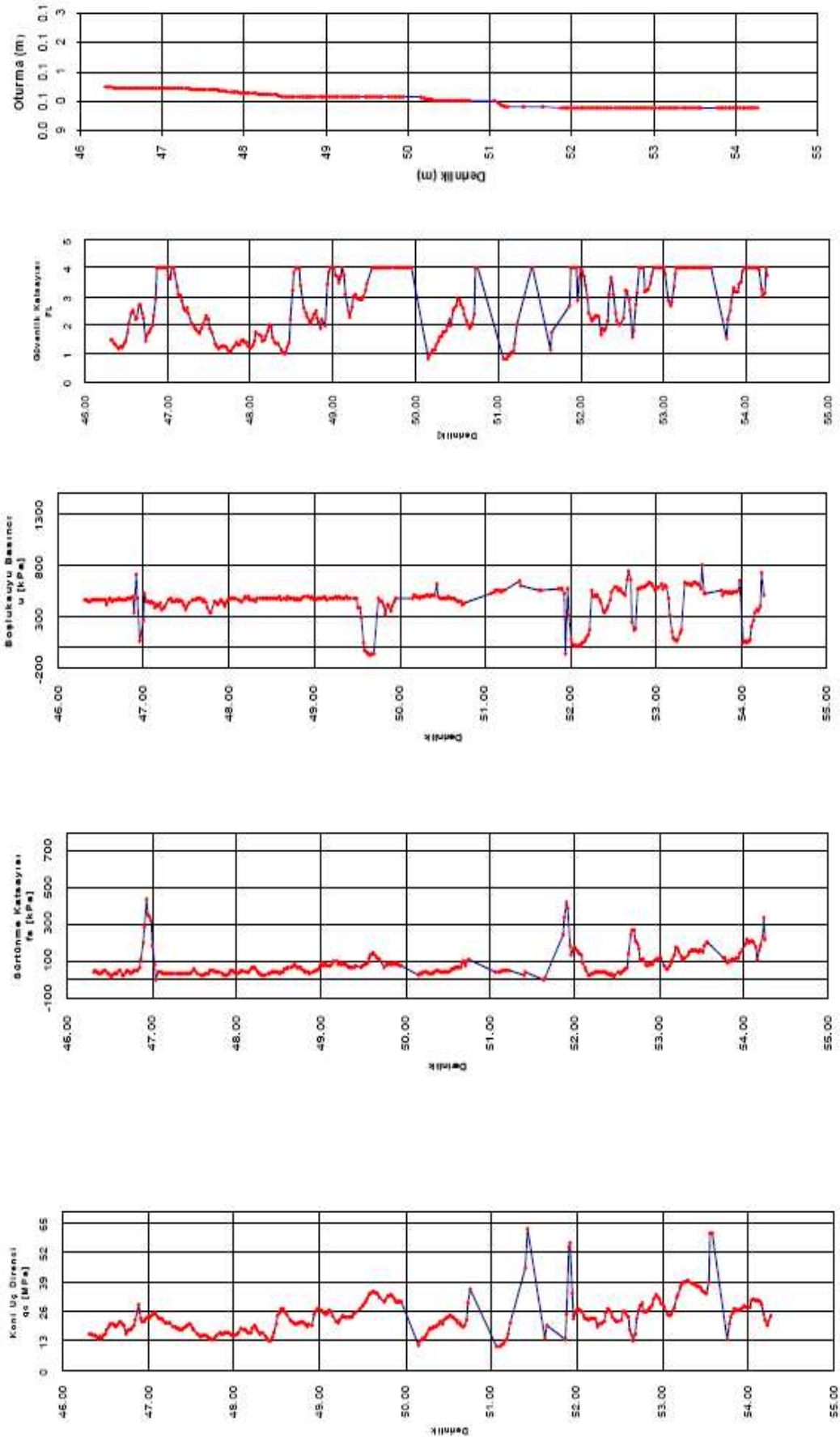
Şekil 5.3. C Bölgesi CPT sonuçları



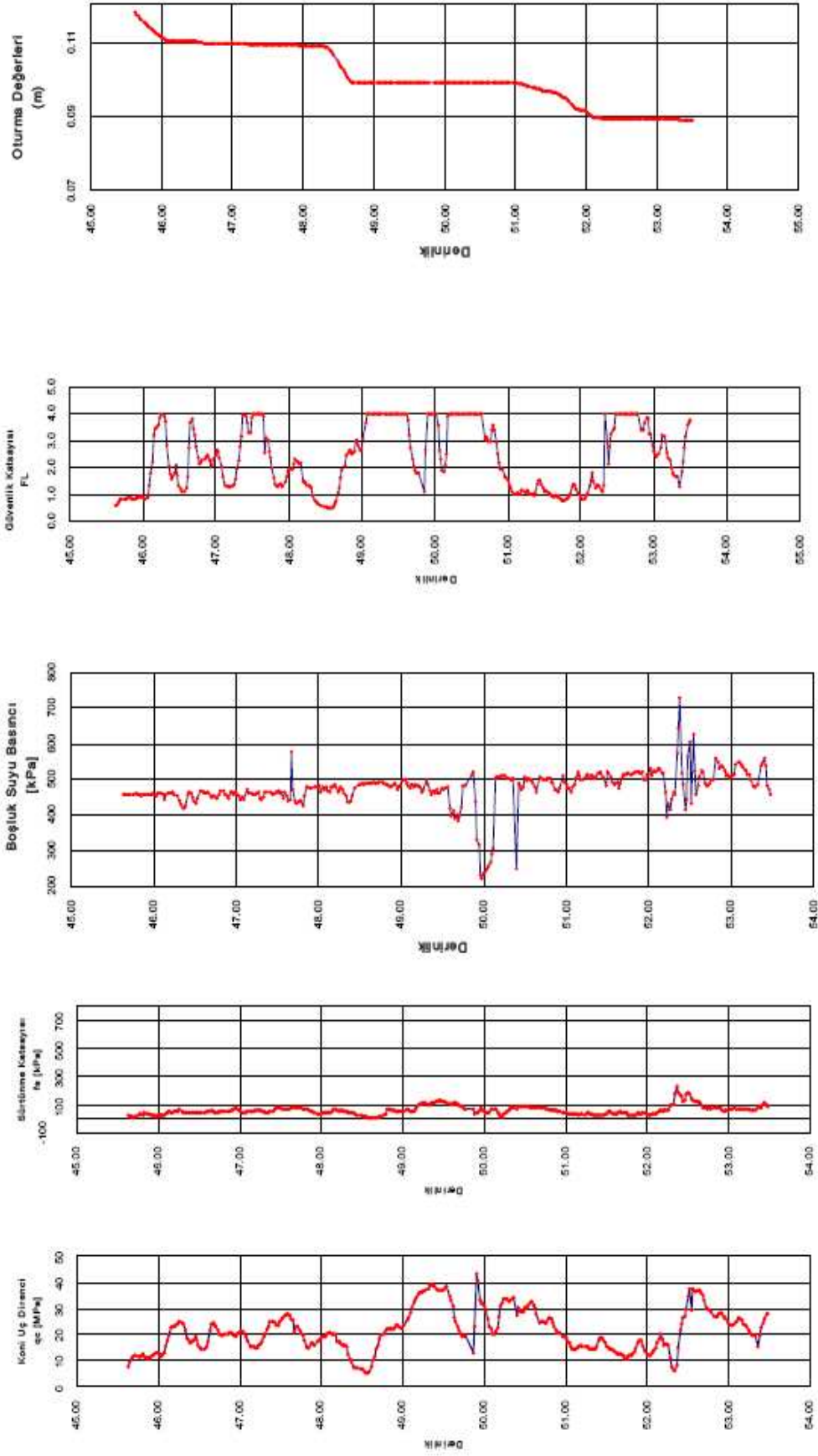
Şekil 5.4. D Bölgesi CPT sonuçları



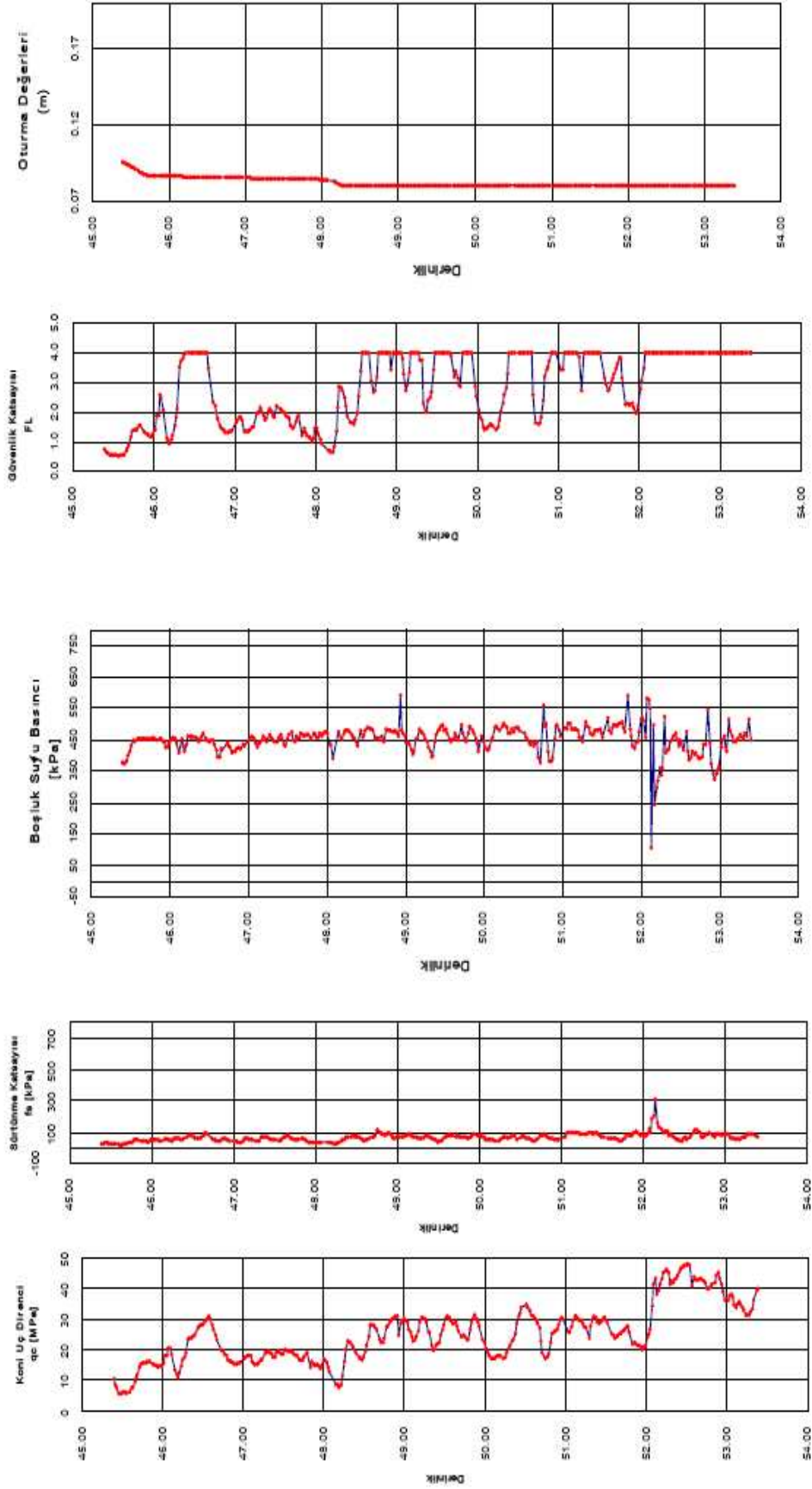
Şekil 5.5. E Bölgesi CPT sonuçları



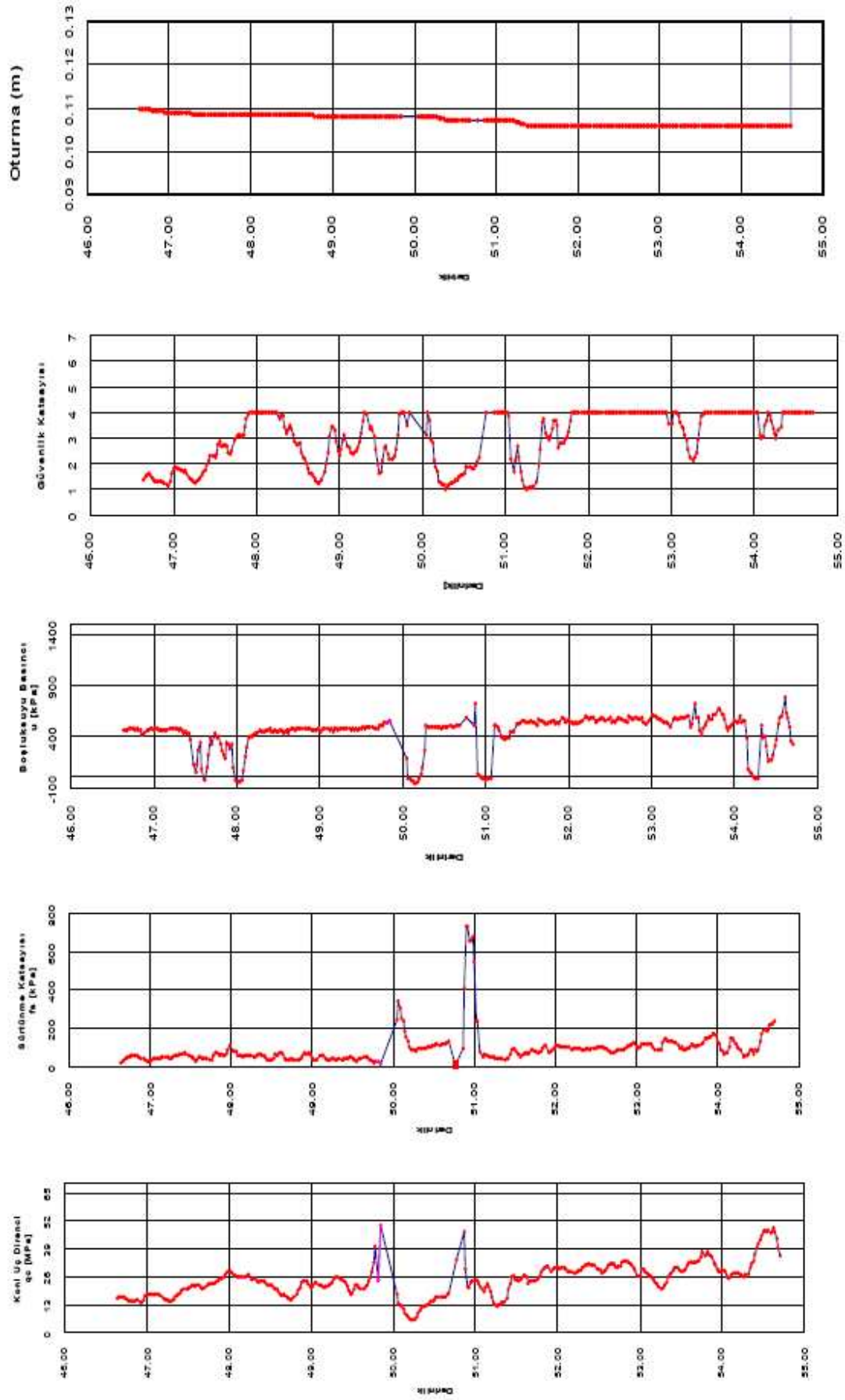
Şekil 5.6. F Bölgesi CPT sonuçları



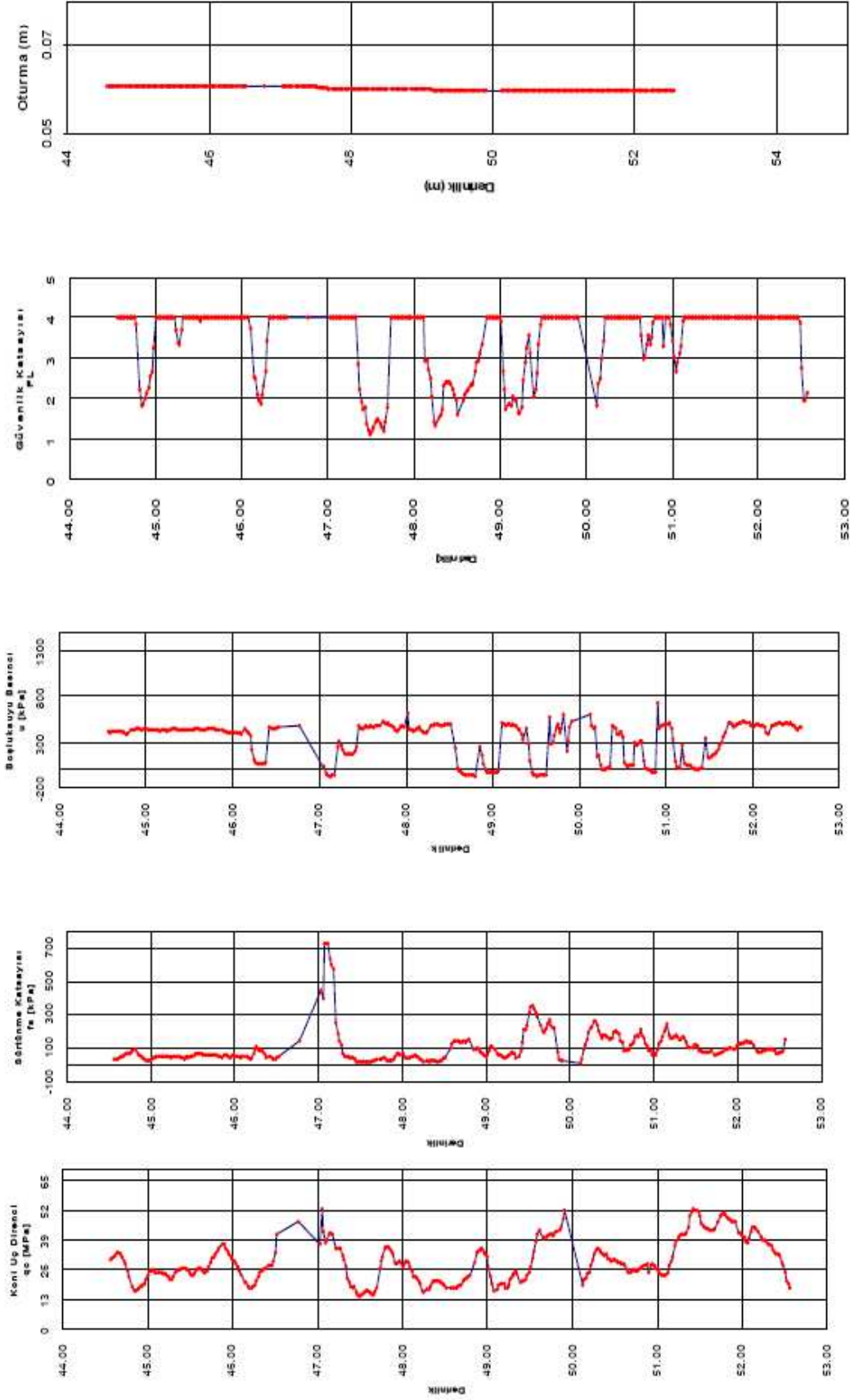
Şekil 5.7. G Bölgesi CPT sonuçları



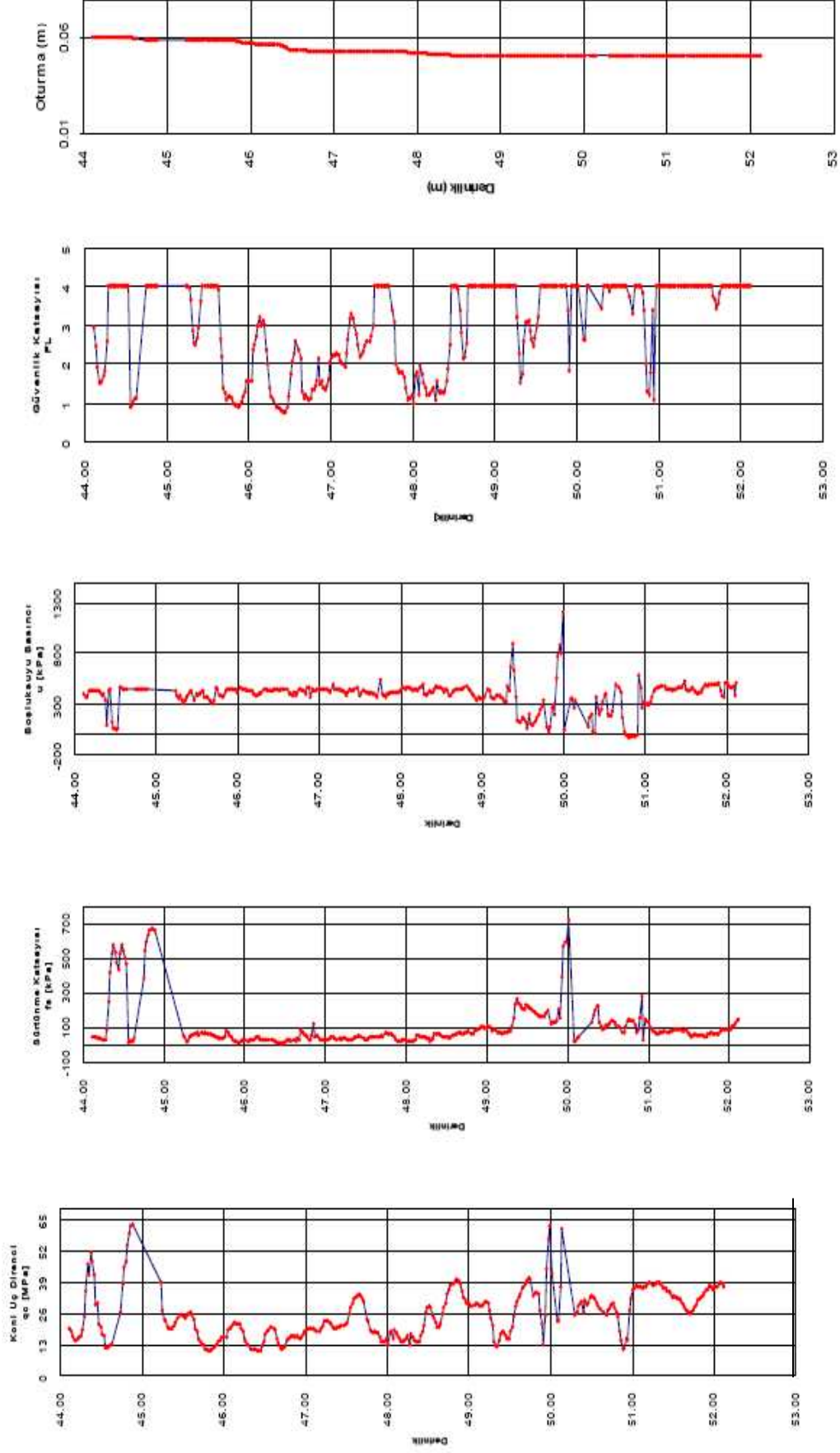
Şekil 5.8. H Bölgesi CPT sonuçları



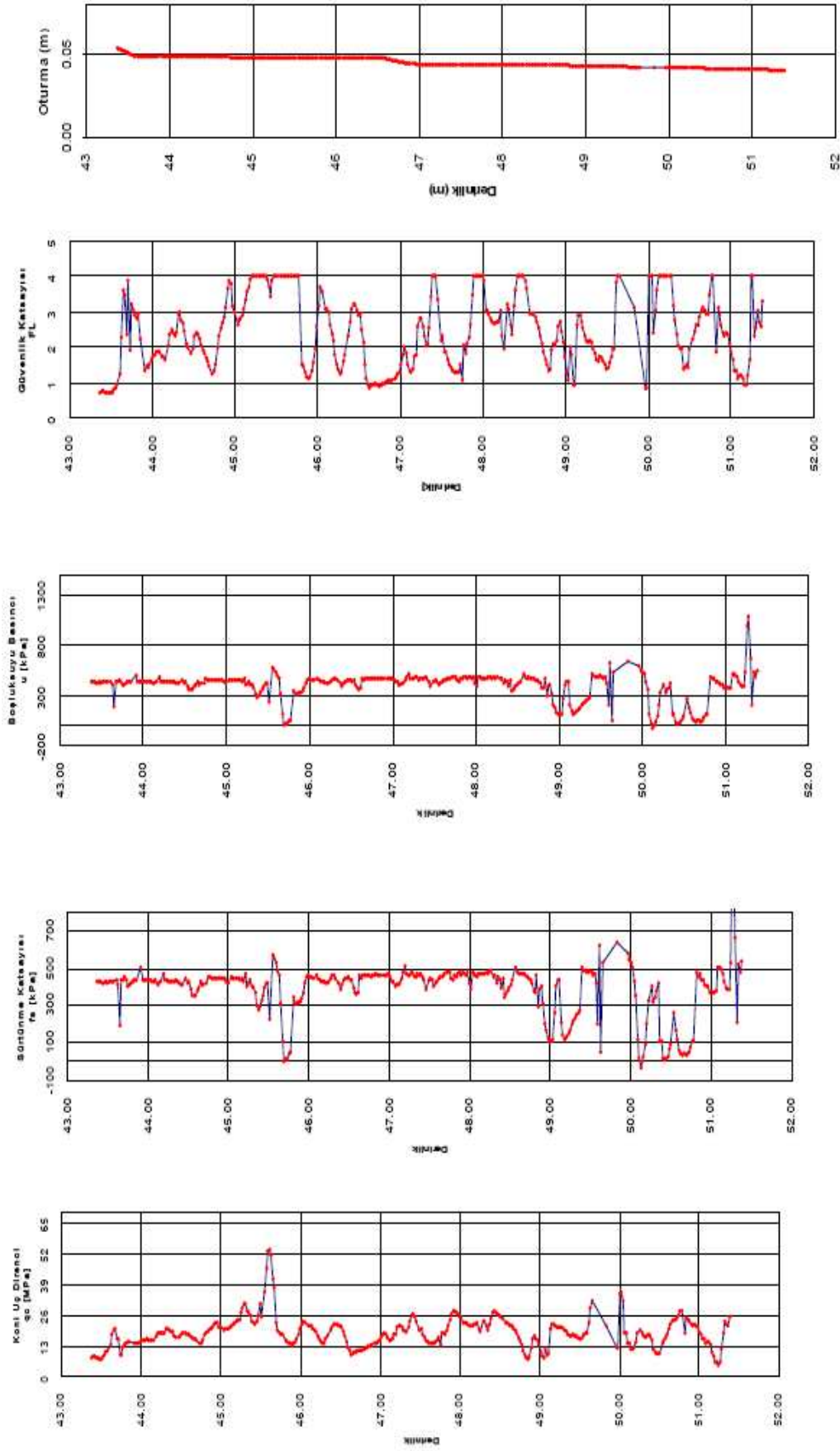
Şekil 5.9. I Bölgesi CPT sonuçları



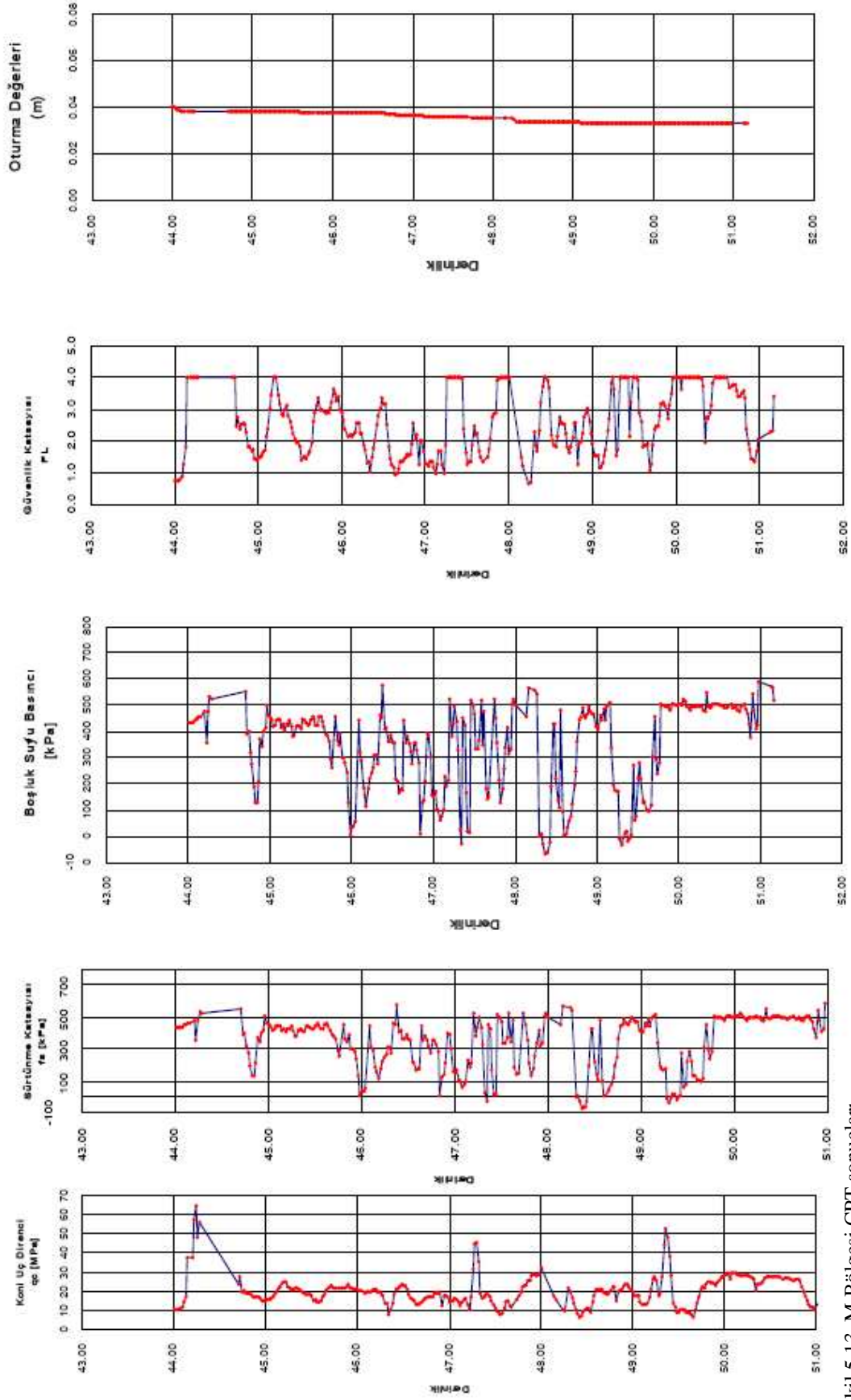
Şekil 5.10. I Bölgesi CPT sonuçları



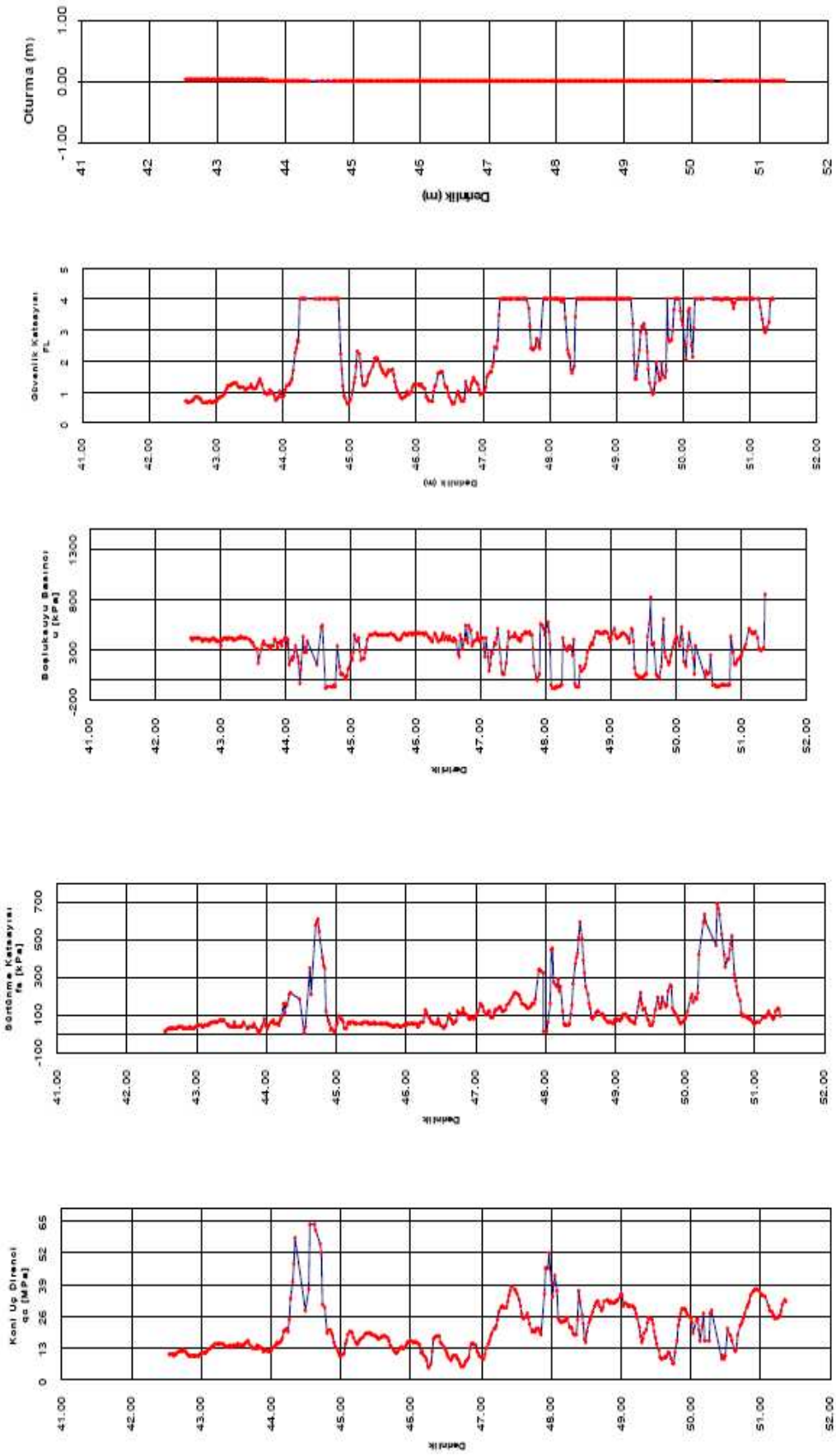
Şekil 5.11. K Bölgesi CPT sonuçları



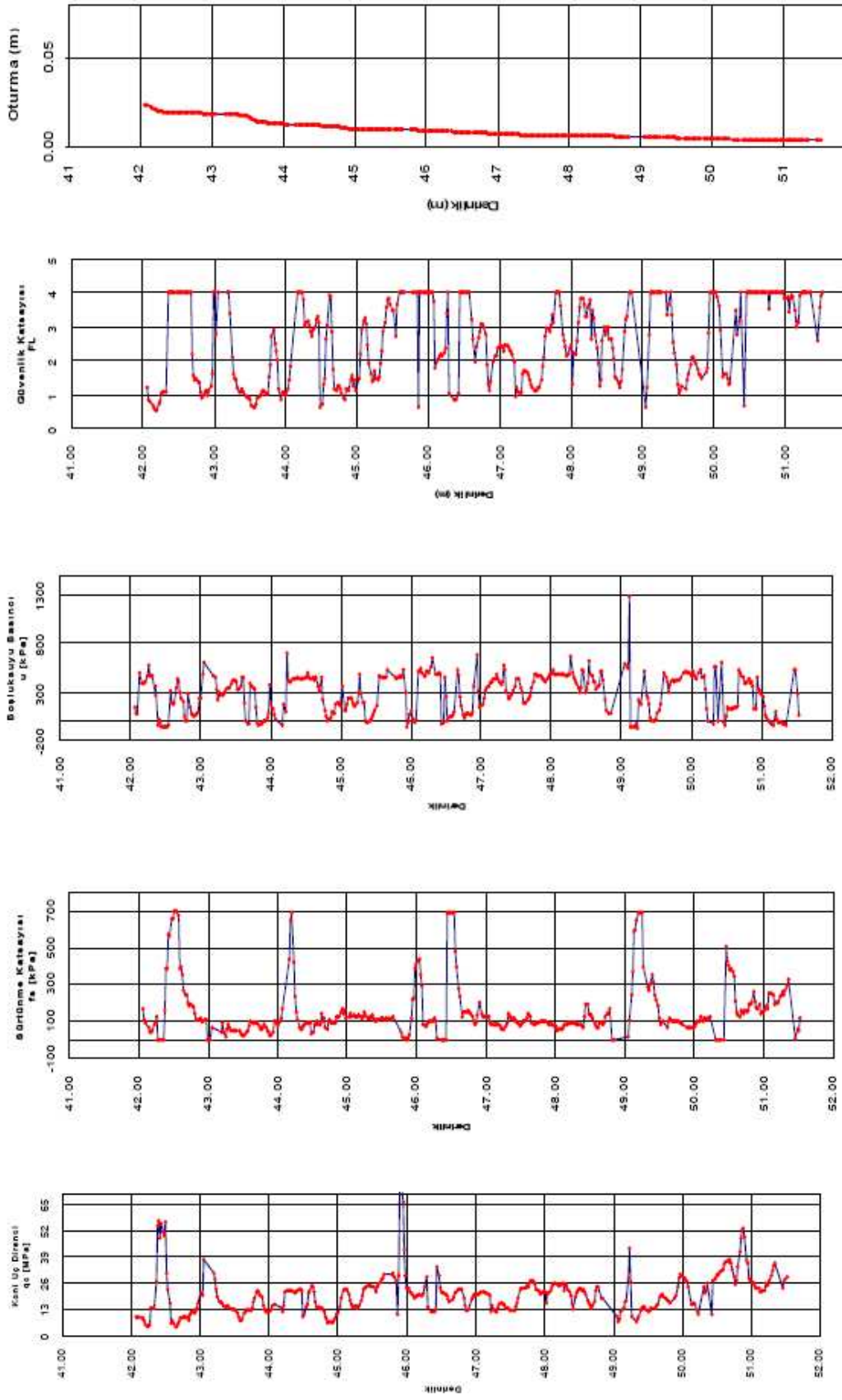
Şekil 5.12. L Bölgesi CPT sonuçları



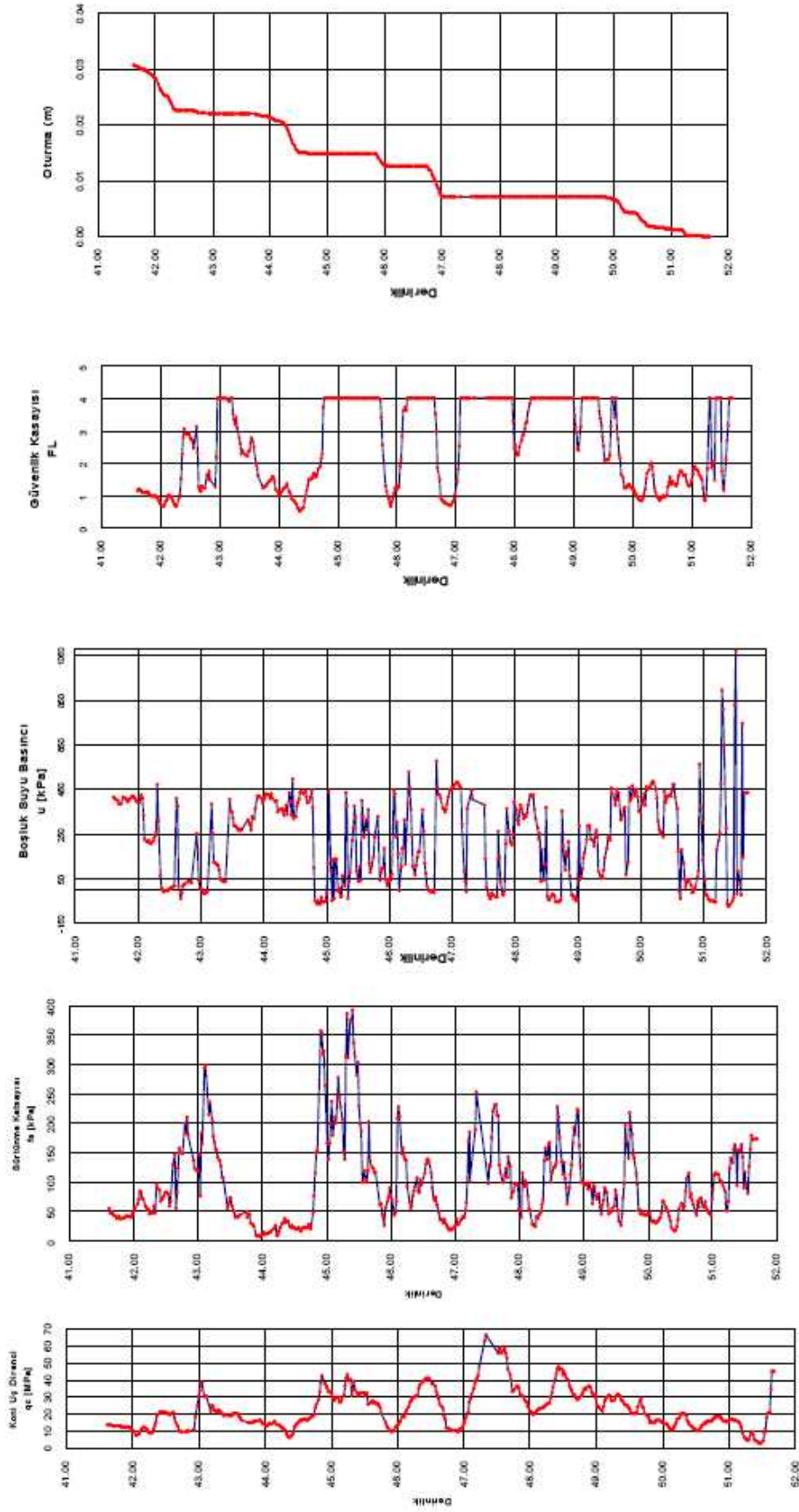
Şekil 5.13. M Bölgesi CPT sonuçları



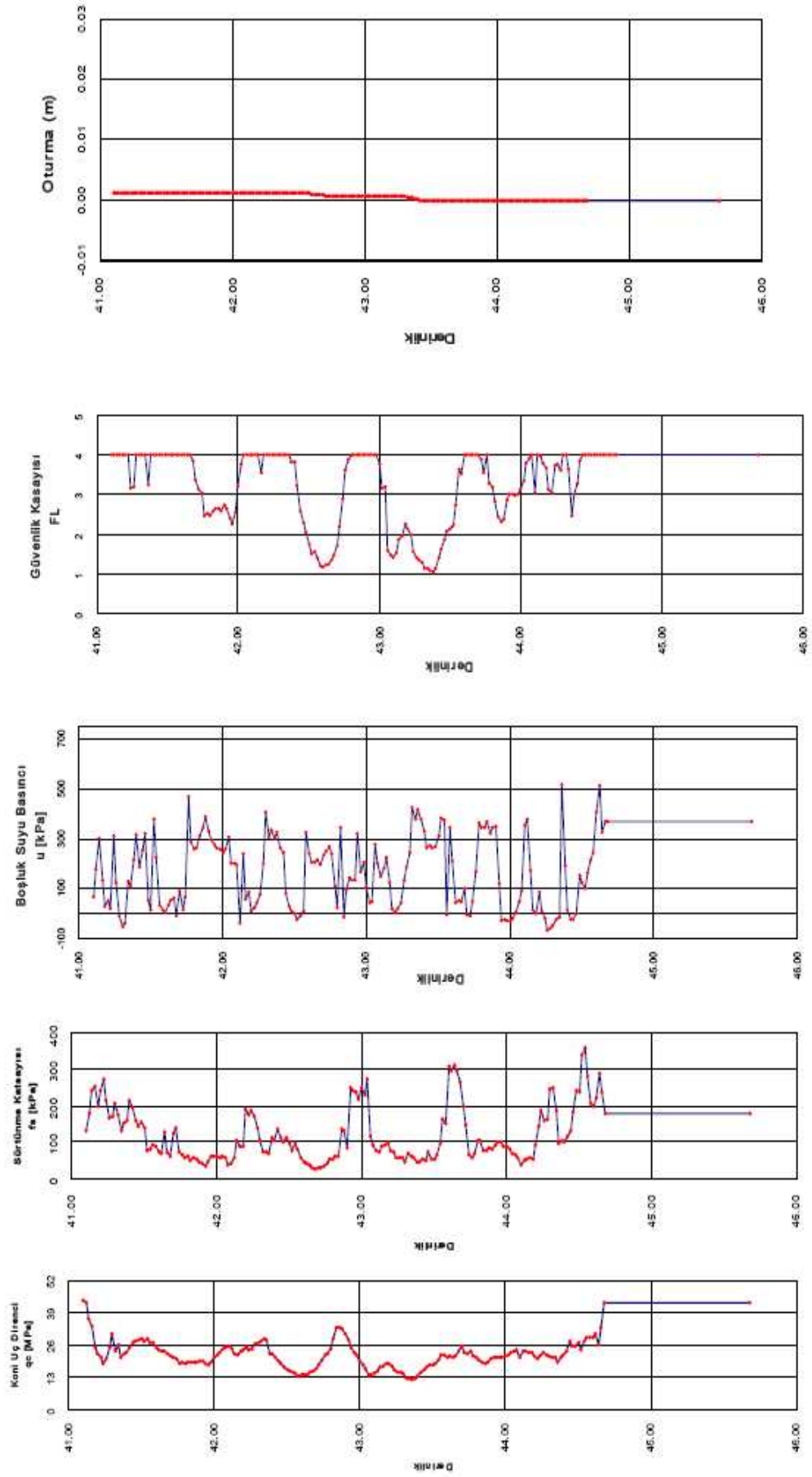
Şekil 5.14. N Bölgesi CPT sonuçları



Şekil 5.15. O Bölgesi CPT sonuçları



Şekil 5.16. P Bölgesi CPT sonuçları



Şekil 5.17. Q Bölgesi CPT sonuçları

CPT sonuçlarından elde edilen değerler ve iyileştirme sonrası değerler tablo 5.1 de verilmiş bulunan sonuçlar tabloya kırmızı ile eklenmiştir.

Tablo 5.1. CPT sonuçları değerlendirilmesi

İyileştirme Yapılan Bölge	İyileştirme Öncesi (mm)	İyileştirme Sonrası (mm)	Güvenlik katsayısı FL>1	Güvenlik katsayısı FL>1	Sonuç
A Bölgesi	126	96	2.54	2.75	√
B Bölgesi	178	101	2.09	2.59	√
C Bölgesi	229	106	2.12	2.54	√
D Bölgesi	273	116	2.13	3.10	√
E Bölgesi	339	110	2.15	3.03	√
F Bölgesi	234	105	2.01	2.81	√
G Bölgesi	253	118	1.78	2.40	√
H Bölgesi	236	96	1.98	2.85	√
I Bölgesi	292	89	2.07	2.90	√
J Bölgesi	197	61	2.19	3.50	√
K Bölgesi	289	67	1.88	2.92	√
L Bölgesi	282	55	1.97	2.47	√
M Bölgesi	274	41	1.83	2.66	√
N Bölgesi	268	45.3	1.77	2.37	√
O Bölgesi	255	24	2.01	2.68	√
P Bölgesi	250	20.7	1.88	3.23	√
Q Bölgesi	242	1	1.98	3.41	√

BÖLÜM 6. SONUÇLAR VE ÖNERİLER

- Bu çalışmada deniz altındaki yapılara temel oluşturan deniz tabanının mukavemeti, taşıma kapasitesi ve rijitliğin azaltılmasına yol açarak geri dönüşü olmayan hasarlara yol açabilen sıvılaşma olayını engellemek amacıyla uygulanan zemin iyileştirme yöntemleri açıklanmış ve bir takım ölçütlerle birbirleri ile kıyaslanmıştır.

- Kompaksiyon enjeksiyon yöntemi, sıvılaşma potansiyeli yüksek olan 471 m'lik boylamsal kısımda, 20.4 m genişliğinde uygulanmıştır. Uygulamada kullanılan enjeksiyon deliklerinin uzunlukları 0.6 ile 10.24 m arasında değişmektedir.

- Marmaray Projesi kapsamında yapılan kompaksiyon enjeksiyon yöntemine ait iyileştirme sonrası oturma değerleri hesaplanarak aşağıdaki sonuçlara varılmıştır;

- Saha ve laboratuvar deneylerine bakıldığında bölge için gözlenebilen en büyük problemlerin zemin kaynaklı olduğu ve karşımıza sıvılaşma sorunu olarak çıkmaktadır.

- Tüp tünel güzergâhının zemin profili; en altta ana kaya karbonifer yaşlı Trakya Formasyonunun kumtaşları, onun üzerinde diskordans olarak holosen yaşlı çökeller bulgulanmıştır. Bu tabakayı, moloz ve çeşitli kayaç parçaları içeren yapay dolgu malzemeleri kaplamaktadır. Tüp tünel elemanları bu zemin üzerinde inşa edilecektir.

- CPT' ye bağlı sıvılaşma risk değerlendirilmesinde 2003 ve 2004 yıllarında yapılmış çalışmalardan BH4, BH5, BH49, BH50 sondajlarında alınan veriler kullanılmış olup bunun sonucunda Boğaz Çökellerinin çeşitli derinliklerinde sıvılaşma riskleri ve oturma değerleri değerlendirilmiştir.

- Boğaz çökelleri boğazın doğusunda ve orta kısmında sıvılaşma potansiyeline sahiptir. Analizler sonucu çıkan sonuçlara bakıldığında ilk 15 metrede çıkan değerler ihmal edilmelidir çünkü Tüp tüneller batırılırken zemin bu derinliğe kadar kazılacaktır. Sıvılaşma riski genelde zeminin 15 ile 20 metreleri arasında görülmektedir.

- Tüp tünelin güvenliği açısından sıvılaşma riski olan bölgelerde zemin iyileştirme yöntemlerine başvurulmuştur. Doğuda batırma tüp tünelin başladığı noktadan boğazın ortasına kadar olan kısmın iyileştirilmesi gerekmektedir. İyileştirme yöntemi olarak kompaksiyon enjeksiyon yöntemi ve zemin yer değiştirme yöntemleri kullanılmıştır.

- Bu tamamıyla gevşek durumda olan zeminin içine yapılan bir enjeksiyonla, yüksek basınçla düşeyde sağlam zemin kolonu oluşturmaktan ibarettir. Bu kolonun oluşturulması sırasında uygulanan yüksek basınç zemini kenarlara doğru iteceği için, daha sıkı hale geçirecek, böylelikle daha sıkı olan zemin de sıvılaşmayacaktır.

- Marmaray Projesinde deniz tabanı zemin iyileştirme yönteminin etkinliğinin değerlendirilmesinde birçok lokasyonda CPT deneyleri yapılmıştır. CPT deneyi uç direnci, çevre sürtünmesi ve boşluk suyu basıncı gibi çok farklı özelliklerin aynı anda ölçülmesi ile deneyin 2 cm de bir veri alınmasına imkân sağlaması operatör kaynaklı hataların hiç olmaması seçim sebepleri arasında yer alabilir. Bu da deniz altındaki yapılara temel oluşturan deniz tabanının incelenmesinde kolaylıklar sağladığı düşünülebilir.

- CPT deneylerinden elde edilen bilgiler ve ölçümlerden yararlanılarak iyileştirme alanı 8+333.75 km'den 8+794.45'ye kadar olan bölge şeklinde belirlenmiştir. Bu alan 17 bölge şeklinde alanlara ayrılarak bu bölgelerde sıvılaşma analizleri ve buna bağlı oturmaların tespiti yapılmıştır. Elde edilen sonuçlar ek-2 de verilmiş olup sonuçlar iyileştirme kapsamında hedeflenen sonuçlara paralel olduğu görülmüştür.

- İyileştirmenin etkinliğini tespit etmek için kullanılacak hedef parametreler;

- a) Sıvılaşma güvenlik faktörü (FL)
- b) Oturma miktarı

- Sıvılaşma Güvenlik Faktörü, sıvılaşma potansiyeli emniyet faktörü (FL) değeri tabaka derinlik değerini göz önüne alarak sıvılaşma potansiyelini değerlendirmek için yapılmaktadır.

$FL < 1$ ise sıvılaşma potansiyelinin yüksek

$FL \geq 1$ ise sıvılaşma potansiyelinin düşük olduğu kabul edilmektedir.

- A bölgesinde iyileştirme yapılmadan önce sıvılaşma tespitinde kullanılan sıvılaşmaya karşı güvenlik sayısı 2.54 oturma miktarı 126 mm iken iyileştirme tamamlandıktan sonra sıvılaşmaya karşı güvenlik değerinin 2.75'e çıktığı ve oturma değerinin 96 mm mertebelerine düştüğü görülmektedir. Bu durum inceleme alanında sıvılaşma riskinin oldukça düştüğünü göstermektedir.

- B bölgesine bakıldığında iyileştirme yapılmadan önce sıvılaşma tespitinde kullanılan sıvılaşmaya karşı güvenlik sayısı 2.09 oturma miktarı 178 mm iken enjeksiyon uygulamasından sonra güvenlik katsayısının 2.59'a çıktığı ve oturmanın bu bölgede 101 mm mertebelerine düştüğü görülmektedir.

- C bölgesinde iyileştirme yapılmadan önce sıvılaşma tespitinde kullanılan sıvılaşmaya karşı güvenlik sayısı 2.12 oturma miktarı 229 mm iken iyileştirme tamamlandıktan sonra bu değer 2.54'in yükseldiği ve oturmanın 106 mm mertebelerine düştüğü görülmektedir.

- D bölgesinde iyileştirme yapılmadan önce sıvılaşma tespitinde kullanılan sıvılaşmaya karşı güvenlik sayısı 2.13 oturma miktarı 273 mm iken iyileştirme tamamlandıktan sonra bu değer 3.10'a yükseldiği oturmanında 116 mm mertebelerine düştüğü görülmektedir.

- E bölgesinde iyileştirme yapılmadan önce sıvılaşma tespitinde kullanılan sıvılaşmaya karşı güvenlik sayısı 2.15 oturma miktarı 229 mm iken iyileştirme

tamamlandıktan sonra bu değerin 2.54'e yükseldiği buradaki oturma miktarında 106 mm mertebelerine düştüğü görülmektedir.

- Q bölgesindeki İyileştirme yapılmadan önce sıvılaşma tespitinde kullanılan sıvılaşmaya karşı güvenlik sayısı 1.98 oturma miktarı 242 mm iken iyileştirme tamamlandıktan sonra bu değer 3.41 ve 1 mm mertebelerine düştüğü görülmektedir.

- Q bölgesindeki oturmanın diğer bölgelere oranla iyileştirmeden önce cm seviyelerinde iken enjeksiyon işleminden sonra mm mertebelerine düştüğü görülmektedir.

- Q bölgesi tüp tünel elemanlarının başladığı bölge olmakla birlikte yaklaşık 26 m uzunluğundadır. Alt kısmında kaya zemin, üst kısmında çakıllı kumlu zemin bulunmaktadır. Üst taraftaki zemin cinsinin kumlu olması iyileştirme sonucunda güvenlik katsayısının 1'in üstüne çıktığı görülmekte ancak daha sığ derinliklere inildikçe zeminin kaya zemin olması oturma değerlerinin diğer bölgelere oranla daha fazla düşüş göstermiştir.

- Diğer bölgelerde zemin dağılımının daha homojen olması iyileştirmelerden sonra oturma değerlerinde büyük farklılıklar ortaya çıkmamaktadır.

- Tablo 5.1'e bakıldığında iyileştirme öncesi ortalama oturma değerlerinin 200 mm civarında iken iyileştirme sonrasında bu ortalama bu değerlerin 70 mm lere varan şekilde azaldığı görülmektedir.

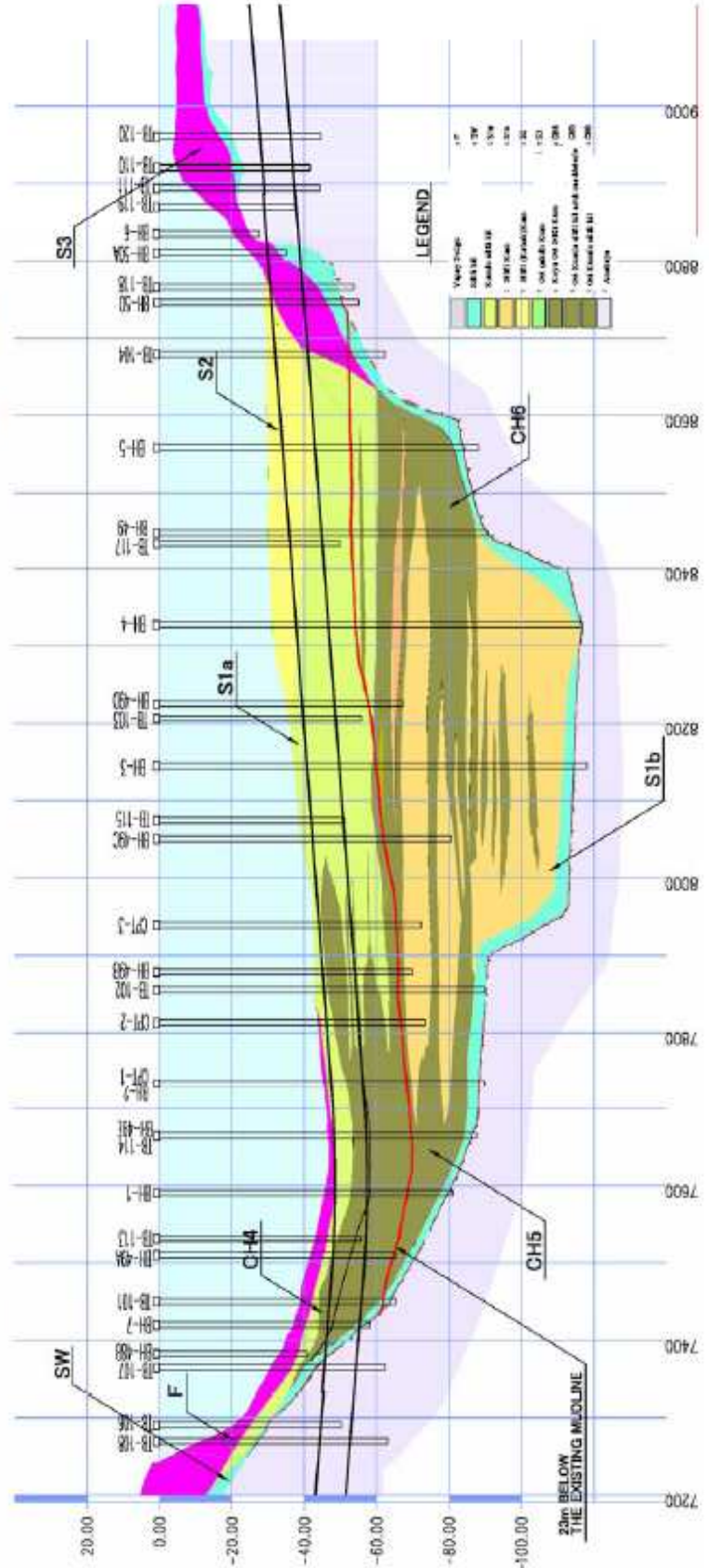
- CPT deneyi ile elde edilen sıvılaşmaya karşı güvenlik sayısı iyileştirmeden sonra %70'lere varan oranda arttığı gözlemlenmiştir.

- Ayrıca "boşluk suyu basıncı ve koni uç direnci" ilişkisine bakıldığında her iki değer derinlere inildikçe koni uç direncinin arttığı, boşluk suyu basıncının azaldığı, toplam oturmanın da düştüğü gözlenmiştir.

- Kompaksiyon enjeksiyonlama yönteminin söz konusu projede başarı olduğu ve deniz tabanında sıvılaşmanın olumsuz etkilerinden kurtulmak için güvenilir bir yöntem olduğu görülmektedir. Ancak kullanılan ekipmanlar açısından maliyetli gibi gözükse de yapının önemi düşünüldüğünde yöntemin etkinliğinin maliyetten öne geçtiği düşünülebilir.

EKLER

Ek-1 Boğaz Geçiři Zemin Profili



Ek-2 Sıvılaşma Sonucu Oturma Değerleri

Derinlik m	qc Koni Uç Sırtınma Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v_0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
48.360	19.0237	0.0605573	0.4586885	6	29.2	7.4	0.5	0.175933	147.3	142.4	0.321	1.61	1.00	147.35	0.378	0.096	1.73
48.380	18.7477	0.0543199	0.4739997	6	28.4	7.2	0.5	0.175933	145.1	140.1	0.293	1.60	1.00	145.08	0.364	0.096	2.42
48.400	18.1329	0.0519115	0.4761227	6	27.6	7.4	0.5	0.175933	140.4	135.4	0.289	1.61	1.00	140.37	0.337	0.096	2.24
48.420	16.7767	0.0445794	0.503227	6	25.7	7.8	0.5	0.175933	130.3	125.3	0.268	1.63	1.00	130.29	0.286	0.096	1.90
48.440	17.0132	0.0441764	0.49168	6	25.9	7.6	0.5	0.17613	131.9	126.9	0.282	1.62	1.00	131.90	0.293	0.096	1.95
48.460	17.0076	0.0435502	0.4756688	6	25.8	7.6	0.5	0.17653	131.7	126.7	0.259	1.62	1.00	131.66	0.292	0.096	1.95
48.480	17.2273	0.0599887	0.4930046	6	27.4	8.6	0.5	0.17653	133.4	128.4	0.346	1.67	1.02	135.46	0.311	0.096	2.07
48.500	17.6394	0.0680507	0.4946763	6	28.6	8.6	0.5	0.17673	137.9	132.9	0.374	1.67	1.02	140.32	0.337	0.096	2.25
48.520	18.2526	0.0597451	0.4904418	6	28.5	7.9	0.5	0.17693	140.8	135.8	0.331	1.64	1.00	140.76	0.339	0.096	2.27
48.540	17.9123	0.0454412	0.4868136	6	26.9	7.2	0.5	0.17713	138.2	133.3	0.256	1.60	1.00	138.25	0.326	0.096	2.18
48.560	17.459	0.0432898	0.4908162	6	26.3	7.3	0.5	0.17733	134.8	129.8	0.250	1.61	1.00	134.79	0.308	0.096	2.06
48.580	17.0644	0.0447468	0.4922272	6	26.1	7.8	0.5	0.17753	132.0	127.0	0.284	1.62	1.00	131.99	0.294	0.096	1.96
48.600	16.8995	0.0466565	0.4884916	6	26.1	7.9	0.5	0.17773	130.4	125.4	0.279	1.64	1.00	130.40	0.286	0.096	1.91
48.620	17.1184	0.049752	0.491824	6	26.6	8.0	0.5	0.17793	132.0	127.0	0.294	1.64	1.00	131.72	0.293	0.096	1.96
48.640	17.7664	0.050947	0.4936381	6	27.3	7.7	0.5	0.17813	136.8	131.8	0.290	1.63	1.00	136.81	0.318	0.096	2.13
48.660	17.6907	0.0430852	0.4861513	6	26.5	7.2	0.5	0.17833	136.1	131.1	0.246	1.60	1.00	136.12	0.315	0.096	2.11
48.680	17.1753	0.0377716	0.4733662	6	25.5	7.1	0.5	0.17853	132.1	127.1	0.222	1.60	1.00	132.12	0.294	0.096	1.97
48.700	16.3467	0.0394842	0.4976695	6	24.9	7.8	0.5	0.17873	126.0	121.0	0.244	1.63	1.00	126.00	0.266	0.096	1.78
48.720	16.7667	0.0451746	0.4989365	6	25.9	8.0	0.5	0.17893	129.1	124.1	0.272	1.64	1.00	129.07	0.280	0.096	1.88
48.740	18.1957	0.0491985	0.4985045	6	27.6	7.3	0.5	0.17913	139.7	134.7	0.273	1.61	1.00	139.68	0.333	0.096	2.24
48.760	19.3773	0.0489231	0.4941852	6	28.5	6.5	0.5	0.17933	148.4	143.4	0.244	1.56	1.00	148.39	0.384	0.096	2.58
48.780	19.7262	0.0408717	0.4970648	6	28.3	6.0	0.5	0.17953	150.9	146.0	0.209	1.53	1.00	150.93	0.400	0.096	2.69
48.800	19.9792	0.0418389	0.5005778	6	28.6	5.9	0.5	0.17973	152.8	147.8	0.211	1.53	1.00	152.76	0.412	0.096	2.77
48.820	20.5303	0.0414359	0.5011625	6	29.1	5.7	0.5	0.17993	156.8	151.8	0.203	1.51	1.00	156.79	0.438	0.096	2.95
48.840	20.9503	0.0467371	0.4970072	6	30.0	5.8	0.5	0.18013	159.8	154.8	0.225	1.52	1.00	159.60	0.460	0.096	3.09
48.860	21.2041	0.0543633	0.4964601	6	31.0	6.1	0.5	0.18033	161.6	156.6	0.258	1.54	1.00	161.60	0.472	0.096	3.18
48.880	21.2725	0.0603093	0.4956538	6	31.7	6.4	0.5	0.18053	162.0	157.0	0.286	1.56	1.00	162.01	0.475	0.096	3.20
48.900	21.3286	0.0632854	0.4951067	6	32.0	6.6	0.5	0.18073	162.3	157.4	0.299	1.56	1.00	162.34	0.478	0.096	3.22
48.920	21.3214	0.0722633	0.4955982	6	32.8	7.0	0.5	0.18093	162.2	157.2	0.342	1.59	1.00	162.20	0.477	0.096	3.21
48.940	21.5264	0.075227	0.4981678	6	33.3	7.1	0.5	0.18113	163.6	158.7	0.352	1.60	1.00	163.64	0.488	0.096	3.29
48.960	22.551	0.0578274	0.5126446	6	32.0	5.5	0.5	0.18153	171.2	166.2	0.231	1.50	1.00	171.18	0.547	0.096	3.68
49.000	22.9507	0.0415681	0.4924575	6	31.2	4.8	0.5	0.18173	173.9	168.9	0.183	1.45	1.00	173.90	0.569	0.096	3.84
49.020	22.4264	0.0470719	0.5040332	6	31.4	5.3	0.5	0.18193	170.0	165.0	0.211	1.49	1.00	170.00	0.537	0.096	3.62
49.040	22.2279	0.0537805	0.4967192	6	32.0	5.7	0.5	0.18213	168.4	163.4	0.244	1.51	1.00	168.39	0.524	0.096	3.53
49.060	22.3534	0.0563784	0.4969496	6	32.4	5.8	0.5	0.18233	169.2	164.2	0.254	1.52	1.00	169.22	0.531	0.096	3.58
49.080	23.2202	0.0610657	0.4976983	6	33.6	5.7	0.5	0.18253	175.6	170.6	0.265	1.51	1.00	175.55	0.563	0.096	3.93
49.100	24.1452	0.0581268	0.4963449	6	34.1	5.2	0.5	0.18273	182.3	177.3	0.243	1.48	1.00	182.29	0.643	0.096	4.00
49.120	24.7757	0.0496016	0.4937533	6	33.7	4.6	0.5	0.18293	186.8	181.8	0.202	1.44	1.00	186.83	0.687	0.096	4.00
49.140	25.2336	0.0493966	0.4986773	6	34.1	4.5	0.5	0.18313	190.2	185.2	0.197	1.43	1.00	190.15	0.719	0.096	4.00
49.160	25.2607	0.0521126	0.4947699	6	34.5	4.6	0.5	0.18333	190.4	185.4	0.208	1.44	1.00	190.37	0.722	0.096	4.00
49.180	24.6917	0.0637876	0.5035149	6	35.3	5.3	0.5	0.18353	186.0	181.0	0.260	1.49	1.00	185.98	0.678	0.096	4.00
49.200	24.2675	0.0782341	0.4967637	6	36.3	6.1	0.5	0.18373	182.9	177.9	0.324	1.54	1.00	182.93	0.649	0.096	4.00
49.220	24.0686	0.0864965	0.5006066	6	36.9	6.5	0.5	0.18393	181.2	176.2	0.362	1.56	1.00	181.16	0.633	0.096	4.00

Derinlik m	CPT Verileri		Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	A Bölgesi		
	qc Koni Uç Sürtünme Direnci	fs Sürtünme Katsayısı													u Boşluk Suyu Basıncı	Oturma [mm]	FL Güvenlik Katsayısı
49.260	24.3675	0.0592553	0.5153786	6	34.6	5.2	0.5	0.18433	183.2	178.2	0.245	1.48	1.00	183.20	0.652	96	1.73
49.280	25.1837	0.0551507	0.4885045	6	34.8	4.8	0.5	0.18453	189.1	184.1	0.221	1.45	1.00	189.08	0.708	0.096	4.00
49.300	26.336	0.0587096	0.4953684	6	35.4	4.9	0.5	0.18493	190.1	185.1	0.233	1.46	1.00	190.08	0.719	0.096	4.00
49.320	25.1717	0.0571906	0.5050699	6	35.1	4.9	0.5	0.18493	188.8	183.8	0.229	1.46	1.00	188.82	0.706	0.096	4.00
49.340	25.1647	0.0536565	0.4981159	6	34.7	4.7	0.5	0.18513	188.8	183.8	0.215	1.45	1.00	188.76	0.705	0.096	4.00
49.360	25.4266	0.0517282	0.5024495	6	34.7	4.8	0.5	0.18533	190.5	185.5	0.205	1.44	1.00	190.46	0.723	0.096	4.00
49.380	25.1422	0.0511102	0.4912769	6	34.4	4.7	0.5	0.18553	188.2	183.2	0.205	1.44	1.00	188.19	0.700	0.096	4.00
49.400	23.824	0.0601109	0.4806802	6	34.3	5.5	0.5	0.18573	178.3	173.4	0.254	1.50	1.00	178.34	0.608	0.096	4.00
49.420	22.9569	0.0666725	0.487492	6	33.5	6.4	0.5	0.18593	167.7	162.7	0.296	1.56	1.00	167.67	0.518	0.096	3.50
49.440	21.5005	0.0771986	0.4691045	6	33.7	7.4	0.5	0.18613	161.0	156.0	0.383	1.61	1.00	161.03	0.488	0.096	3.16
49.460	20.1112	0.0787177	0.4671545	6	32.5	8.3	0.5	0.18633	150.7	145.7	0.396	1.66	1.01	151.97	0.466	0.096	2.74
49.480	19.7779	0.0791765	0.4783478	6	32.2	8.6	0.5	0.18653	148.3	143.3	0.404	1.67	1.02	150.73	0.398	0.096	2.69
49.500	20.1213	0.0933997	0.4996275	6	33.6	9.2	0.5	0.18673	150.9	145.9	0.468	1.69	1.03	156.05	0.433	0.096	2.93
49.540	19.4362	0.0901871	0.4679527	6	31.9	8.9	0.5	0.18713	145.5	140.5	0.417	1.68	1.03	149.35	0.390	0.096	2.63
49.560	18.048	0.0837212	0.4828689	6	30.7	10.2	0.5	0.18733	135.4	130.4	0.469	1.74	1.06	143.90	0.357	0.096	2.41
49.580	17.7775	0.0925122	0.4864969	6	30.3	10.3	0.5	0.18753	133.4	128.4	0.469	1.74	1.07	142.31	0.348	0.096	2.35
49.600	18.1466	0.091545	0.5010673	6	30.7	10.0	0.5	0.18773	136.1	131.1	0.454	1.73	1.06	143.84	0.357	0.096	2.41
49.620	18.984	0.0728275	0.5000019	6	31.0	8.8	0.5	0.18793	142.1	137.1	0.387	1.68	1.02	145.32	0.385	0.096	2.47
49.640	19.6699	0.0681711	0.4191158	6	31.2	8.1	0.5	0.18813	146.5	141.5	0.351	1.65	1.00	146.49	0.372	0.096	2.52
49.660	19.6407	0.0747806	0.4585078	6	32.0	8.4	0.5	0.18833	147.9	142.9	0.381	1.66	1.01	149.32	0.390	0.096	2.63
49.680	19.9459	0.0788107	0.504494	6	32.5	8.5	0.5	0.18853	148.9	143.9	0.399	1.67	1.01	151.08	0.401	0.096	2.71
49.700	20.041	0.0795113	0.4941564	6	32.6	8.5	0.5	0.18873	149.5	144.5	0.401	1.67	1.01	151.60	0.404	0.096	2.73
49.720	19.6607	0.0824378	0.4672663	6	32.8	8.7	0.5	0.18893	148.8	143.8	0.417	1.68	1.02	152.04	0.407	0.096	2.75
49.740	19.8396	0.082103	0.4861513	6	32.6	8.8	0.5	0.18913	147.8	142.8	0.418	1.68	1.02	151.33	0.402	0.096	2.72
49.760	19.6065	0.0816938	0.4637037	6	32.6	8.8	0.5	0.18933	147.5	142.5	0.417	1.68	1.02	151.03	0.400	0.096	2.71
49.780	19.7502	0.0797655	0.4524287	6	32.4	8.8	0.5	0.18953	147.0	142.0	0.408	1.68	1.02	150.26	0.396	0.096	2.67
49.800	18.0028	0.0786123	0.5104258	6	30.5	10.0	0.5	0.18973	134.4	129.4	0.441	1.73	1.08	142.09	0.347	0.096	2.35
49.820	18.985	0.0780109	0.5035725	6	31.5	9.2	0.5	0.18993	141.4	136.4	0.415	1.70	1.04	146.37	0.372	0.096	2.51
49.840	18.5696	0.0780171	0.5018448	6	31.0	9.5	0.5	0.19013	138.3	133.3	0.424	1.71	1.04	144.45	0.380	0.096	2.44
49.860	18.4135	0.0720525	0.5051275	6	30.4	9.2	0.5	0.19033	137.1	132.1	0.395	1.70	1.04	142.15	0.377	0.096	2.35
49.880	18.8453	0.0671049	0.5060489	6	30.1	8.2	0.5	0.19053	140.9	135.9	0.326	1.65	1.00	141.26	0.342	0.096	2.31
49.900	20.1036	0.0560312	0.5106562	6	30.8	7.2	0.5	0.19073	149.3	144.3	0.281	1.60	1.00	149.27	0.389	0.096	2.63
49.920	20.8395	0.0568992	0.5111745	6	31.6	6.8	0.5	0.19093	154.5	149.5	0.275	1.58	1.00	154.52	0.423	0.096	2.86
49.940	20.9761	0.0557115	0.4967121	6	31.6	6.7	0.5	0.19113	155.3	150.3	0.288	1.57	1.00	155.32	0.428	0.096	2.90
49.960	21.0435	0.0542641	0.4962873	6	31.6	6.6	0.5	0.19133	154.9	149.9	0.271	1.58	1.00	154.89	0.426	0.096	2.88
50.000	21.5051	0.0510834	0.5064677	6	31.7	6.2	0.5	0.19173	159.0	154.0	0.240	1.54	1.00	158.98	0.454	0.096	3.07
50.020	21.422	0.0508788	0.5041196	6	31.6	6.2	0.5	0.19193	158.3	153.3	0.240	1.55	1.00	158.27	0.449	0.096	3.04
50.040	21.2651	0.0536441	0.50435	6	31.8	6.5	0.5	0.19213	157.1	152.1	0.255	1.56	1.00	157.05	0.440	0.096	2.98
50.080	20.5247	0.0579656	0.5254569	6	31.5	7.1	0.5	0.19253	151.7	146.7	0.285	1.60	1.00	151.71	0.405	0.096	2.74
50.100	21.2171	0.0629506	0.5186628	6	32.7	7.0	0.5	0.19273	156.6	151.6	0.289	1.59	1.00	156.57	0.437	0.096	2.96
50.120	21.3657	0.069312	0.501528	6	33.4	7.3	0.5	0.19293	157.4	152.4	0.327	1.61	1.00	157.43	0.443	0.096	3.00
50.140	21.5106	0.0768018	0.5100227	6	34.2	7.7	0.5	0.19313	158.5	153.5	0.380	1.62	1.00	158.45	0.450	0.096	3.05

CPT Verileri													A Bölgesi				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	σ_v^0 [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
	Koni Uç Sürünme Direnci	Katsayısı	Boşluk Suyu Basıncı			%				%						96	1.73
50.160	22.2048	0.0782837	0.5060777	6	35.0	7.4	0.5	0.19333	163.3	158.3	0.356	1.61	1.00	163.34	0.485	0.096	3.29
50.180	22.719	0.0759672	0.5101378	6	35.3	7.0	0.5	0.19353	167.0	162.0	0.338	1.59	1.00	166.98	0.513	0.096	3.47
50.200	23.0384	0.0731437	0.50693416	6	35.4	6.7	0.5	0.19373	169.2	164.2	0.320	1.58	1.00	169.16	0.500	0.096	3.59
50.220	22.5574	0.0582322	0.4987061	6	33.6	6.2	0.5	0.19393	165.6	160.6	0.280	1.55	1.00	165.56	0.502	0.096	3.40
50.240	21.7137	0.0556096	0.4826095	6	32.5	6.5	0.5	0.19413	159.3	154.3	0.259	1.56	1.00	159.31	0.456	0.096	3.09
50.260	20.918	0.0595963	0.4691509	6	32.1	7.1	0.5	0.19433	153.4	148.4	0.288	1.59	1.00	153.42	0.416	0.096	2.82
50.280	20.4241	0.0667823	0.4781462	6	32.3	7.8	0.5	0.19453	149.9	144.9	0.331	1.63	1.00	149.86	0.393	0.096	2.66
50.300	20.401	0.0725609	0.4875335	6	32.8	8.2	0.5	0.19473	149.7	144.7	0.359	1.65	1.00	149.99	0.394	0.096	2.67
50.320	20.7749	0.0755184	0.50435	6	33.5	8.1	0.5	0.19493	152.4	147.4	0.367	1.65	1.00	152.43	0.409	0.096	2.77
50.360	20.6226	0.0769816	0.5228654	6	33.5	8.3	0.5	0.19533	151.3	146.3	0.377	1.65	1.01	152.25	0.408	0.096	2.77
50.380	20.9817	0.0783209	0.5072295	6	33.9	8.2	0.5	0.19553	153.7	148.7	0.377	1.65	1.00	154.01	0.420	0.096	2.84
50.400	21.0371	0.0780605	0.5105698	6	34.0	8.1	0.5	0.19573	154.0	149.0	0.374	1.65	1.00	154.13	0.421	0.096	2.85
50.420	21.3334	0.0825184	0.5041772	6	34.7	8.2	0.5	0.19593	156.0	151.0	0.390	1.65	1.00	156.57	0.437	0.096	2.96
50.440	21.8862	0.0834546	0.5177398	6	35.3	7.9	0.5	0.19613	160.0	155.0	0.384	1.64	1.00	159.99	0.461	0.096	3.12
50.460	22.2879	0.0829834	0.514054	6	35.7	7.7	0.5	0.19633	162.7	157.7	0.375	1.63	1.00	162.73	0.481	0.096	3.26
50.480	22.6667	0.0828045	0.5242188	6	36.9	8.0	0.5	0.19653	165.6	160.6	0.412	1.64	1.00	165.57	0.502	0.096	3.40
50.500	23.1215	0.1028468	0.5056746	6	38.1	8.2	0.5	0.19673	166.5	163.4	0.449	1.66	1.00	169.29	0.531	0.096	3.60
50.520	23.3116	0.1104007	0.5116928	6	38.9	8.5	0.5	0.19693	169.8	164.8	0.477	1.66	1.01	172.01	0.553	0.096	3.75
50.540	23.1159	0.1171589	0.5125854	6	38.2	8.9	0.5	0.19713	168.3	163.3	0.511	1.68	1.03	172.79	0.560	0.096	3.79
50.560	22.347	0.1218648	0.5231245	6	38.7	9.6	0.5	0.19733	162.8	157.8	0.550	1.71	1.05	170.48	0.541	0.096	3.67
50.580	21.1377	0.1235203	0.5059913	6	37.4	10.5	0.5	0.19753	154.0	149.0	0.590	1.75	1.07	165.21	0.499	0.096	3.39
50.600	20.3032	0.1174379	0.4812273	6	36.0	10.9	0.5	0.19773	147.8	142.8	0.585	1.77	1.08	159.92	0.460	0.096	3.12
50.640	19.2697	0.0821411	0.5161649	6	33.3	10.2	0.5	0.19813	140.8	135.8	0.482	1.74	1.06	149.77	0.392	0.096	2.66
50.680	19.188	0.0831446	0.5039468	6	32.5	9.8	0.5	0.19833	139.8	134.8	0.438	1.72	1.05	147.02	0.376	0.096	2.55
50.680	19.6007	0.0893244	0.4952532	6	31.9	8.6	0.5	0.19853	142.7	137.6	0.357	1.67	1.02	145.13	0.364	0.096	2.47
50.700	20.0362	0.0850338	0.5178638	6	32.1	8.0	0.5	0.19873	146.2	141.2	0.327	1.64	1.00	145.93	0.369	0.096	2.50
50.720	20.1324	0.0855671	0.5111376	6	32.2	8.1	0.5	0.19893	146.4	141.4	0.329	1.64	1.00	146.18	0.370	0.096	2.51
50.760	20.3456	0.0814749	0.5125279	6	32.1	7.7	0.5	0.19913	147.8	142.8	0.305	1.63	1.00	147.81	0.360	0.096	2.58
50.780	20.7029	0.0857159	0.5116928	6	32.8	7.8	0.5	0.19953	150.2	145.2	0.320	1.63	1.00	149.40	0.390	0.096	2.65
50.800	20.2026	0.0879603	0.5146011	6	32.5	8.2	0.5	0.19973	146.6	141.6	0.340	1.65	1.00	150.19	0.395	0.096	2.68
50.820	19.6651	0.0718681	0.5138524	6	32.3	8.8	0.5	0.19993	142.6	137.6	0.388	1.68	1.02	147.08	0.376	0.096	2.55
50.840	19.3357	0.0696156	0.500637	6	31.8	8.9	0.5	0.20013	140.2	135.2	0.364	1.68	1.03	143.81	0.357	0.096	2.42
50.860	19.3477	0.0822866	0.5055594	6	31.2	8.4	0.5	0.20033	140.3	135.3	0.325	1.66	1.01	141.72	0.345	0.096	2.34
50.920	19.4262	0.0843261	0.5224622	6	30.6	7.8	0.5	0.20093	140.7	135.7	0.282	1.63	1.00	140.73	0.339	0.096	2.30
50.940	19.4382	0.0843571	0.5174519	6	30.6	7.9	0.5	0.20113	140.7	135.7	0.282	1.63	1.00	140.71	0.339	0.096	2.30
50.960	18.9019	0.0878168	0.5211089	6	30.4	6.4	0.5	0.20133	136.9	131.9	0.309	1.66	1.01	138.42	0.327	0.096	2.22
50.980	17.9067	0.0690445	0.5138812	6	29.5	9.2	0.5	0.20153	129.8	124.7	0.333	1.70	1.04	134.44	0.306	0.096	2.08
51.000	16.931	0.0610657	0.5201298	6	28.6	10.2	0.5	0.20173	122.9	117.9	0.365	1.74	1.06	130.59	0.287	0.096	1.95
51.020	16.6975	0.0611029	0.5220015	6	28.3	10.4	0.5	0.20193	121.2	116.2	0.370	1.75	1.07	129.50	0.282	0.096	1.91
51.040	16.7205	0.0633412	0.5156953	6	28.5	10.6	0.5	0.20213	121.2	116.2	0.383	1.75	1.07	130.13	0.285	0.096	1.94
51.060	17.2329	0.0717963	0.5173865	6	29.8	10.8	0.5	0.20233	124.8	119.8	0.421	1.76	1.08	134.61	0.307	0.096	2.08
51.080	18.7126	0.0864723	0.4676072	6	30.9	9.2	0.5	0.20253	134.8	129.8	0.380	1.70	1.04	139.69	0.333	0.096	2.27

CPT Verileri													A Bölgesi				
Derinlik m	qc Koni Uc Surtünme Direnci	fs Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																96	1.73
51.100	20.6447	0.0958426	0.4766777	6	35.3	9.7	0.5	0.20273	148.3	143.3	0.470	1.72	1.05	155.65	0.431	0.096	2.93
51.120	24.2809	0.121623	0.5148687	6	41.2	8.7	0.5	0.20293	174.1	169.0	0.505	1.67	1.02	177.50	0.600	0.096	4.00
51.140	26.5167	0.1227763	0.3337089	6	43.5	7.7	0.5	0.20313	188.4	183.4	0.470	1.63	1.00	188.39	0.702	0.096	4.00
51.1490	10.8181	0.0129832	0.5104548	6	17.8	11.4	0.5	0.20863	78.8	73.8	0.122	1.79	1.10	86.44	0.140	0.096	0.95
51.510	12.3006	0.019202	0.5136221	6	20.1	10.6	0.5	0.20883	89.1	84.1	0.159	1.75	1.07	95.74	0.162	0.095	1.10
51.530	13.2634	0.0259106	0.5133629	6	21.8	10.5	0.5	0.20703	95.7	90.7	0.198	1.75	1.07	102.52	0.180	0.095	1.23
51.550	14.2235	0.0326006	0.51391	6	23.5	10.3	0.5	0.20723	102.4	97.4	0.233	1.74	1.07	109.12	0.201	0.095	1.37
51.570	15.1556	0.0400285	0.5148467	6	25.2	10.2	0.5	0.20743	108.8	103.8	0.268	1.74	1.06	115.68	0.224	0.095	1.52
51.590	15.6276	0.0482003	0.5146875	6	26.4	10.5	0.5	0.20763	112.0	107.0	0.313	1.75	1.07	120.18	0.241	0.095	1.64
51.610	16.1474	0.057806	0.5161273	6	27.8	10.9	0.5	0.20783	115.8	110.8	0.361	1.76	1.08	125.24	0.263	0.095	1.79
51.630	16.7741	0.0639674	0.5176638	6	28.9	10.8	0.5	0.20803	119.9	114.9	0.386	1.76	1.08	129.63	0.283	0.095	1.92
51.650	16.9965	0.0705706	0.5185173	6	29.7	11.2	0.5	0.20823	121.4	116.4	0.420	1.78	1.09	132.29	0.295	0.095	2.01
51.670	16.7122	0.0775024	0.5166168	6	29.8	12.0	0.5	0.20843	119.3	114.3	0.470	1.81	1.11	132.66	0.297	0.095	2.02
51.690	16.7427	0.0812784	0.5177974	6	30.1	12.3	0.5	0.20863	119.5	114.5	0.492	1.82	1.12	133.69	0.302	0.095	2.06
51.710	16.7759	0.082847	0.5185749	6	30.3	12.4	0.5	0.20883	119.7	114.7	0.500	1.82	1.12	134.19	0.305	0.095	2.07
51.730	16.859	0.0835662	0.5160121	6	30.4	12.3	0.5	0.20903	120.2	115.2	0.502	1.82	1.12	134.69	0.307	0.095	2.09
51.750	15.7245	0.0673279	0.5171927	6	28.0	12.2	0.5	0.20923	112.3	107.3	0.434	1.82	1.12	125.52	0.264	0.095	1.80
51.770	16.4969	0.0760578	0.5175958	6	29.5	12.1	0.5	0.20943	117.6	112.6	0.467	1.81	1.12	131.20	0.290	0.095	1.97
51.790	16.7676	0.0794059	0.5179702	6	30.1	12.1	0.5	0.20963	119.4	114.4	0.480	1.81	1.12	133.19	0.300	0.095	2.04
51.810	17.0326	0.0831508	0.5176414	6	30.7	12.2	0.5	0.20983	121.2	116.1	0.494	1.81	1.12	135.26	0.310	0.095	2.11
51.830	17.2209	0.0837832	0.517855	6	30.9	12.0	0.5	0.21003	122.4	117.4	0.493	1.81	1.11	136.23	0.315	0.095	2.15
51.850	17.3056	0.0840312	0.5180276	6	31.1	12.0	0.5	0.21023	122.9	117.9	0.492	1.81	1.11	136.64	0.317	0.095	2.16
51.870	17.2901	0.0851845	0.5187476	6	31.1	12.1	0.5	0.21043	122.8	117.7	0.499	1.81	1.11	136.81	0.318	0.095	2.17
51.890	17.3326	0.0849055	0.5180653	6	31.2	12.0	0.5	0.21063	123.0	118.0	0.496	1.81	1.11	136.90	0.319	0.095	2.17
51.910	17.5403	0.083374	0.5186325	6	31.3	11.8	0.5	0.21083	124.4	119.3	0.481	1.80	1.11	137.45	0.322	0.095	2.19
51.930	17.7572	0.0820968	0.5177398	6	31.5	11.5	0.5	0.21103	125.8	120.8	0.468	1.79	1.10	138.10	0.325	0.095	2.21
51.950	17.8947	0.0801313	0.5180276	6	31.5	11.2	0.5	0.21123	126.7	121.7	0.453	1.78	1.09	138.22	0.326	0.095	2.22
51.970	17.9714	0.0792757	0.5206497	6	31.6	11.1	0.5	0.21143	127.2	122.1	0.448	1.77	1.09	138.35	0.326	0.095	2.22
51.990	17.8717	0.0788018	0.5213392	6	31.3	11.0	0.5	0.21163	126.4	121.4	0.435	1.77	1.09	137.27	0.321	0.095	2.18
52.010	17.7997	0.0724183	0.5192372	6	30.9	10.8	0.5	0.21183	125.9	120.8	0.412	1.76	1.08	135.84	0.313	0.095	2.13
52.030	16.9363	0.0605511	0.5245931	6	29.1	10.6	0.5	0.21203	119.9	114.9	0.362	1.76	1.08	128.93	0.279	0.095	1.90
52.050	17.1589	0.0616175	0.5198707	6	29.4	10.5	0.5	0.21223	121.4	116.3	0.364	1.75	1.07	130.16	0.286	0.095	1.94
52.070	17.1656	0.0620062	0.5223471	6	29.5	10.5	0.5	0.21243	121.5	116.5	0.365	1.75	1.07	130.37	0.286	0.095	1.95
52.090	17.7444	0.0651082	0.5239684	6	30.1	10.5	0.5	0.21263	124.1	119.1	0.375	1.75	1.07	132.88	0.298	0.095	2.03
52.110	18.1034	0.0649966	0.5304673	6	30.8	10.0	0.5	0.21283	127.7	122.7	0.363	1.73	1.06	135.22	0.310	0.095	2.11
52.130	20.0281	0.0615431	0.5360117	6	32.6	8.4	0.5	0.21303	140.9	135.9	0.310	1.66	1.01	142.50	0.349	0.095	2.38
52.150	21.6614	0.0552809	0.541352	6	33.7	7.1	0.5	0.21323	152.2	147.2	0.257	1.60	1.00	152.19	0.408	0.095	2.78
52.170	21.9115	0.0554235	0.528826	6	33.9	7.0	0.5	0.21343	153.6	148.6	0.255	1.59	1.00	153.63	0.417	0.095	2.84
52.190	21.5439	0.0604891	0.5313688	6	34.1	7.5	0.5	0.21363	151.0	146.0	0.263	1.62	1.00	151.03	0.400	0.095	2.73
52.210	20.6076	0.0644366	0.5406033	6	33.5	8.3	0.5	0.21383	144.6	139.6	0.316	1.65	1.01	145.59	0.367	0.095	2.50
52.230	20.0352	0.0692624	0.508007	6	33.3	9.0	0.5	0.21403	140.4	135.4	0.350	1.69	1.03	144.46	0.360	0.095	2.46
52.250	19.7179	0.0718541	0.508007	6	33.1	9.4	0.5	0.21423	138.2	133.2	0.369	1.70	1.04	143.75	0.366	0.095	2.43
52.270	18.3256	0.0796539	0.5106662	6	32.2	11.0	0.5	0.21443	128.6	123.6	0.440	1.77	1.08	139.50	0.332	0.095	2.27

CPT Verileri													A Bölgesi						
Derinlik m	qc	fs	Sürtünme Direnç Katsayısı	Boşluk Suyu Basıncı	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	GRR	Oturma [mm]	FL Güvenlik Katsayısı	
							[%]					[%]						96	1,73
52.290	17.1018	0.0687885	0.5287108		6	29.8	11.1	0.5	0.21463	120.3	115.3	0.395	1.77	1.09	130.90	0.289		0.095	1.97
52.310	17.82	0.0669798	0.527684		6	29.9	9.7	0.5	0.21483	125.2	120.2	0.324	1.72	1.05	131.53	0.292		0.095	1.99
52.330	19.7045	0.05804	0.5253077		6	32.1	8.4	0.5	0.21503	138.6	133.6	0.296	1.66	1.01	140.18	0.336		0.095	2.29
52.350	22.311	0.0670737	0.5355353		6	35.6	7.6	0.5	0.21523	155.7	150.7	0.303	1.62	1.00	155.73	0.431		0.095	2.94
52.370	24.1009	0.0739683	0.5418703		6	38.0	6.7	0.5	0.21543	162.9	162.9	0.309	1.59	1.00	167.89	0.520		0.095	3.95
52.390	25.0766	0.075227	0.5506816		6	39.1	6.1	0.5	0.21563	174.5	169.5	0.302	1.57	1.00	174.52	0.574		0.095	3.92
52.410	25.5041	0.0744519	0.5446922		6	39.5	6.5	0.5	0.21583	177.3	172.3	0.294	1.56	1.00	177.31	0.598		0.095	4.00
52.430	25.6641	0.0822314	0.5159545		6	38.6	5.8	0.5	0.21603	179.5	174.4	0.243	1.52	1.00	179.48	0.618		0.095	4.00
52.450	25.4339	0.0735467	0.5330689		6	39.3	6.5	0.5	0.21623	176.6	171.6	0.292	1.56	1.00	176.59	0.692		0.095	4.00
52.470	25.0757	0.0838824	0.5321087		6	39.9	7.1	0.5	0.21643	174.1	169.0	0.337	1.60	1.00	174.07	0.570		0.095	3.89
52.490	24.6705	0.0863253	0.5370615		6	39.8	7.4	0.5	0.21663	171.3	166.2	0.353	1.61	1.00	171.27	0.547		0.095	3.73
52.510	24.0652	0.0908081	0.5366793		6	39.5	7.9	0.5	0.21683	167.2	162.2	0.380	1.64	1.00	167.20	0.515		0.095	3.51
52.530	23.2433	0.0934069	0.5174231		6	38.8	8.5	0.5	0.21703	161.3	156.2	0.406	1.67	1.01	163.54	0.487		0.095	3.32
52.550	22.5639	0.0968052	0.519266		6	38.4	9.1	0.5	0.21723	156.6	151.6	0.432	1.69	1.03	161.54	0.472		0.095	3.22
52.570	21.4848	0.0739001	0.525313		6	35.4	8.5	0.5	0.21743	149.3	144.2	0.347	1.66	1.01	151.22	0.402		0.095	2.74
52.590	21.734	0.0709178	0.532339		6	35.4	8.2	0.5	0.21763	150.9	145.9	0.330	1.65	1.00	151.34	0.402		0.095	2.75
52.610	21.4525	0.0696158	0.5242475		6	35.0	8.3	0.5	0.21783	148.9	143.9	0.328	1.65	1.01	149.80	0.393		0.095	2.68
52.630	21.0166	0.0735715	0.5305825		6	34.9	8.8	0.5	0.21803	145.9	140.9	0.354	1.68	1.02	149.16	0.389		0.095	2.65
52.650	21.0029	0.0753262	0.533894		6	35.1	8.9	0.5	0.21823	145.8	140.7	0.362	1.68	1.03	149.55	0.391		0.095	2.67
52.670	21.5208	0.0729329	0.5307641		6	35.4	8.4	0.5	0.21843	149.2	144.2	0.342	1.66	1.01	150.96	0.400		0.095	2.73
52.690	21.8697	0.0752593	0.5333469		6	36.0	8.4	0.5	0.21863	151.5	146.5	0.347	1.66	1.01	152.98	0.413		0.095	2.82
52.710	21.6766	0.0744953	0.5381112		6	35.8	8.5	0.5	0.21883	150.2	145.1	0.347	1.66	1.01	151.98	0.406		0.095	2.77
52.730	21.1783	0.0724989	0.5064808		6	35.0	8.7	0.5	0.21903	146.5	141.5	0.346	1.67	1.02	149.27	0.389		0.095	2.66
52.750	19.5988	0.0862076	0.5360248		6	32.7	9.2	0.5	0.21923	136.0	130.9	0.338	1.70	1.04	140.82	0.340		0.095	2.32
52.770	18.7828	0.0669798	0.511808		6	31.1	9.2	0.5	0.21943	130.3	125.2	0.307	1.70	1.04	134.96	0.309		0.095	2.11
52.790	18.9785	0.0641773	0.5216584		6	31.1	8.9	0.5	0.21963	131.6	126.5	0.289	1.68	1.03	136.00	0.309		0.095	2.11
52.810	19.5645	0.0521002	0.5357369		6	31.6	8.4	0.5	0.21983	135.5	130.5	0.289	1.66	1.01	136.76	0.318		0.095	2.17
52.850	18.7893	0.0510648	0.5366671		6	30.7	8.8	0.5	0.22023	130.2	125.2	0.275	1.68	1.02	133.27	0.300		0.095	2.05
52.870	18.6979	0.0657966	0.5394227		6	31.0	9.2	0.5	0.22043	129.6	124.5	0.302	1.70	1.04	134.24	0.305		0.095	2.08
52.890	18.8816	0.05804	0.5441739		6	31.4	9.3	0.5	0.22063	130.8	125.7	0.311	1.70	1.04	136.64	0.312		0.095	2.13
52.910	19.3684	0.0614067	0.5356233		6	32.3	9.2	0.5	0.22083	134.1	129.0	0.320	1.69	1.03	138.65	0.328		0.095	2.24
52.930	19.3062	0.0614997	0.5392211		6	32.2	9.2	0.5	0.22103	133.5	128.4	0.322	1.70	1.04	138.32	0.326		0.095	2.23
52.950	18.7763	0.0639922	0.5235665		6	31.8	9.8	0.5	0.22123	129.8	124.7	0.345	1.72	1.05	136.61	0.317		0.095	2.17
52.970	18.2178	0.0665281	0.5112697		6	31.4	10.4	0.5	0.22143	125.9	120.8	0.370	1.75	1.07	134.73	0.307		0.095	2.10
52.990	17.9695	0.0660755	0.5061353		6	31.1	10.6	0.5	0.22163	124.1	119.1	0.373	1.76	1.08	133.46	0.301		0.095	2.06
53.010	17.4837	0.0680667	0.5186916		6	30.7	11.2	0.5	0.22183	120.7	115.7	0.395	1.78	1.09	131.74	0.293		0.095	2.00
53.030	16.9799	0.0700932	0.5201674		6	30.3	11.8	0.5	0.22203	117.4	112.4	0.419	1.80	1.11	130.08	0.285		0.095	1.95
53.050	16.6851	0.0722881	0.5296889		6	30.1	12.3	0.5	0.22223	115.3	110.3	0.440	1.82	1.12	129.25	0.281		0.095	1.92
53.070	16.7935	0.0618221	0.5230669		6	29.5	11.4	0.5	0.22243	116.1	111.1	0.373	1.78	1.09	127.12	0.271		0.095	1.85
53.090	16.895	0.0575564	0.5356609		6	29.3	10.9	0.5	0.22263	116.8	111.8	0.345	1.77	1.08	126.50	0.268		0.095	1.83
53.110	16.4833	0.0528753	0.5289265		6	28.4	10.9	0.5	0.22283	114.0	108.9	0.325	1.77	1.08	123.36	0.265		0.095	1.74
53.130	16.6862	0.0544679	0.5341631		6	28.8	10.9	0.5	0.22303	115.3	110.3	0.331	1.76	1.08	124.73	0.260		0.095	1.78
53.150	16.7076	0.0541525	0.5351034		6	28.8	10.8	0.5	0.22323	115.4	110.4	0.328	1.76	1.08	124.68	0.260		0.095	1.78

CPT Verileri													A Bölgesi				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL
Komi Uç Direnç	Sürtünme Katsayısı	Bosluk Suyu Basıncı				[%]		[MPa]			[%]						Güvenlik Katsayısı
																96	1.73
53.170	16.6088	0.0532163	0.5281715	6	28.6	10.8	0.5	0.22343	114.7	109.6	0.325	1.76	1.08	123.94	0.257	0.095	1.78
53.190	16.5784	0.0513314	0.5346715	6	28.4	10.7	0.5	0.22363	114.4	109.4	0.314	1.74	1.08	123.29	0.254	0.095	1.74
53.210	16.893	0.0481631	0.537813	6	28.5	10.2	0.5	0.22383	116.4	111.4	0.289	1.74	1.06	123.76	0.256	0.095	1.75
53.230	18.0471	0.0457822	0.536284	6	29.6	9.1	0.5	0.22403	124.2	119.1	0.257	1.69	1.03	128.09	0.275	0.095	1.88
53.250	19.7475	0.0502278	0.5364148	6	31.8	8.3	0.5	0.22423	135.5	130.4	0.257	1.65	1.01	136.38	0.316	0.095	2.18
53.270	20.3687	0.0635334	0.5448938	6	33.7	8.8	0.5	0.22443	139.6	142.82	0.315	1.68	1.02	142.82	0.351	0.095	2.40
53.290	21.2494	0.0735663	0.5445482	6	36.5	8.9	0.5	0.22463	145.4	140.4	0.350	1.68	1.03	149.13	0.388	0.095	2.68
53.310	21.9371	0.0753262	0.5469627	6	36.5	8.8	0.5	0.22483	150.0	144.9	0.347	1.67	1.02	152.36	0.409	0.095	2.80
53.330	21.7699	0.0775086	0.5446058	6	36.4	8.8	0.5	0.22503	148.7	143.6	0.360	1.68	1.02	152.19	0.408	0.095	2.79
53.350	21.2355	0.0764546	0.5321375	6	35.8	9.1	0.5	0.22523	145.0	140.0	0.364	1.69	1.03	149.68	0.392	0.095	2.68
53.410	18.0668	0.0704662	0.5352762	6	29.4	13.0	0.5	0.22583	110.5	105.4	0.445	1.84	1.14	125.75	0.265	0.095	1.81
53.430	15.7198	0.0614129	0.5395091	6	28.3	12.6	0.5	0.22603	108.1	103.1	0.396	1.83	1.13	121.88	0.248	0.095	1.70
53.450	17.6873	0.0617207	0.5468231	6	30.5	10.8	0.5	0.22623	120.6	115.5	0.352	1.76	1.08	130.07	0.285	0.095	1.95
53.470	20.9623	0.0623984	0.5112321	6	34.3	8.5	0.5	0.22643	142.7	137.6	0.301	1.66	1.01	144.46	0.360	0.095	2.46
53.490	25.2696	0.0694112	0.3594625	6	39.3	6.8	0.5	0.22663	170.2	165.1	0.279	1.58	1.00	170.21	0.539	0.095	3.68
53.510	27.7196	0.0932509	0.2123367	6	43.8	6.9	0.5	0.22683	185.5	180.4	0.343	1.58	1.00	185.46	0.673	0.095	1.90
53.530	29.6474	0.0991969	0.0512269	6	46.4	6.4	0.5	0.22703	196.4	193.4	0.340	1.56	1.00	198.43	0.807	0.096	1.95
53.550	31.8745	0.0989613	-0.0307534	6	48.2	5.8	0.5	0.22723	211.2	206.2	0.318	1.52	1.00	211.25	0.957	0.096	1.95
53.570	32.6647	0.1045849	0.0068962	6	49.6	5.7	0.5	0.22743	216.7	211.6	0.328	1.51	1.00	216.66	1.026	0.096	2.07
53.590	32.8013	0.1083856	0.2832883	6	50.4	5.7	0.5	0.22763	219.3	214.2	0.335	1.51	1.00	219.29	1.061	0.096	2.25
53.610	32.6906	0.1068063	0.4365946	6	50.2	5.6	0.5	0.22783	219.5	214.4	0.327	1.51	1.00	219.47	1.063	0.096	2.27
53.630	32.9721	0.1103883	0.522491	6	50.4	5.8	0.5	0.22803	217.8	212.8	0.344	1.52	1.00	217.84	1.041	0.096	2.18
53.680	29.1596	0.113817	0.5606464	6	47.6	7.0	0.5	0.22863	196.6	191.5	0.393	1.59	1.00	196.56	0.786	0.096	2.06
53.710	28.0602	0.1360385	0.5438284	6	48.1	8.3	0.5	0.22883	189.1	184.0	0.489	1.66	1.01	190.60	0.724	0.096	1.96
53.730	27.5137	0.1416915	0.53853	6	47.9	8.8	0.5	0.22903	185.4	180.3	0.520	1.68	1.02	189.74	0.715	0.095	1.91
53.750	27.6919	0.1491767	0.5367945	6	48.6	9.0	0.5	0.22923	186.4	181.4	0.543	1.69	1.03	191.95	0.738	0.095	1.96
53.770	28.6574	0.145314	0.5705216	6	49.5	8.4	0.5	0.22943	193.0	187.9	0.511	1.68	1.01	194.98	0.769	0.095	4.00
53.790	29.5113	0.1397152	0.5311296	6	50.0	7.9	0.5	0.22963	198.3	193.2	0.477	1.63	1.00	198.25	0.805	0.095	4.00
53.810	32.8864	0.1296089	0.4824655	6	52.7	6.3	0.5	0.22983	220.1	215.0	0.398	1.55	1.00	220.10	1.072	0.093	4.00
53.830	35.3602	0.1110145	0.2344515	6	53.2	5.2	0.5	0.23003	234.7	229.6	0.319	1.48	1.00	234.69	1.282	0.096	2.65
53.850	32.5743	0.1700094	-0.0573027	6	55.0	7.9	0.5	0.23023	214.3	209.2	0.535	1.63	1.00	214.30	0.995	0.096	2.67
53.870	20.0635	0.2403754	-0.0899487	6	42.0	19.7	0.5	0.23043	131.7	126.7	1.250	2.03	1.35	177.22	0.598	0.096	2.73
53.890	17.2993	0.2633843	0.3631505	5	39.1	24.3	0.5	0.23063	116.4	111.4	1.557	2.14	1.53	177.53	0.603	0.096	2.82
53.910	18.1495	0.2731	-0.0828729	5	40.0	24.2	0.5	0.23083	118.9	113.8	1.579	2.13	1.52	180.88	0.630	0.096	2.77
53.930	17.8587	0.3176732	-0.0839852	5	40.6	26.9	0.5	0.23103	116.9	111.9	1.868	2.19	1.64	191.98	0.738	0.096	2.66
53.950	17.351	0.2316331	0.5973877	5	38.6	22.2	0.5	0.23123	118.0	113.0	1.348	2.09	1.44	170.15	0.538	0.096	2.32
53.970	19.0226	0.1911148	-0.0505934	6	36.8	18.6	0.5	0.23143	124.7	119.6	1.050	2.00	1.31	162.91	0.482	0.096	2.11
53.990	19.5213	0.184431	-0.0400643	6	38.3	17.6	0.5	0.23163	128.0	122.9	0.986	1.98	1.27	162.87	0.483	0.096	2.11
54.010	18.9628	0.1491891	-0.0381538	6	37.0	16.3	0.5	0.23183	124.3	119.2	0.822	1.94	1.23	153.05	0.413	0.096	2.24
54.030	17.453	0.1335956	-0.0172772	6	34.2	17.1	0.5	0.23203	114.7	109.6	0.800	1.97	1.26	144.19	0.359	0.096	1.90
54.050	17.459	0.1060375	0.0607949	6	32.9	15.0	0.5	0.23223	114.9	109.8	0.828	1.91	1.20	137.32	0.321	0.095	1.95
54.070	17.4526	0.1008524	0.1693165	6	32.8	14.6	0.5	0.23243	115.6	110.5	0.599	1.89	1.18	136.72	0.318	0.095	1.95
54.090	18.3258	0.0992899	0.2434644	6	33.9	13.5	0.5	0.23263	121.7	116.7	0.558	1.86	1.15	140.18	0.336	0.095	2.07

CPT Verileri										Pa(MPa)										0.1										B Bölgesi									
Derinlik m	qc Kontı Uç Direnci	qs Sürtünme Katsayısı	fs	u Boğluk	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı																					
48.110	18.2326	0.0879126	0.47734	6	30.4	9.6	0.5	0.17263	142.3	137.3	0.487	1.71	1.05	148.80	0.366	0.100	2.59	2.08																					
48.150	16.5627	0.0845593	0.4847116	6	28.4	10.8	0.5	0.17323	129.5	124.5	0.516	1.76	1.08	139.78	0.334	0.100	1.80	1.80																					
48.170	17.4046	0.0813404	0.4704003	6	29.1	9.8	0.5	0.17343	135.7	130.8	0.472	1.72	1.05	143.00	0.352	0.100	1.89	1.89																					
48.190	17.1775	0.0821774	0.4646958	6	28.9	10.1	0.5	0.17363	133.9	128.9	0.484	1.73	1.06	142.04	0.347	0.100	1.86	1.86																					
48.210	17.1609	0.0841304	0.4676072	6	29.0	10.3	0.5	0.17383	133.7	128.7	0.496	1.74	1.07	142.41	0.349	0.100	1.88	1.88																					
48.230	17.1221	0.0851535	0.4755835	6	29.1	10.4	0.5	0.17403	133.4	128.4	0.503	1.74	1.07	142.47	0.349	0.100	1.88	1.88																					
48.250	17.0935	0.0864389	0.4800179	6	29.1	10.5	0.5	0.17423	133.1	128.2	0.511	1.75	1.07	142.62	0.350	0.100	1.88	1.88																					
48.270	16.9655	0.0875902	0.4752091	6	29.1	10.7	0.5	0.17443	132.0	127.0	0.522	1.76	1.08	142.15	0.347	0.100	1.87	1.87																					
48.290	16.8488	0.1119073	0.5050987	6	30.4	12.4	0.5	0.17463	131.3	126.3	0.670	1.82	1.12	147.30	0.377	0.100	2.03	2.03																					
48.310	20.2829	0.1119073	0.5050987	6	34.3	9.5	0.5	0.17483	157.2	152.2	0.556	1.71	1.04	163.98	0.490	0.100	2.64	2.64																					
48.330	22.7079	0.170927	0.5615375	6	40.6	10.4	0.5	0.17503	175.9	170.9	0.756	1.75	1.07	188.15	0.699	0.100	3.77	3.77																					
48.350	21.9842	0.1594256	0.1771488	6	38.7	10.7	0.5	0.17523	167.4	162.4	0.741	1.76	1.08	180.48	0.627	0.100	3.38	3.38																					
48.370	20.8829	0.1969306	0.1167938	6	39.1	13.3	0.5	0.17543	158.5	153.6	0.968	1.85	1.15	181.93	0.639	0.100	3.45	3.45																					
48.410	19.9387	0.1755151	0.4544477	6	37.4	12.9	0.5	0.17583	153.8	148.8	0.890	1.84	1.14	174.77	0.576	0.100	3.11	3.11																					
48.430	19.5933	0.1531138	0.4310947	6	35.9	12.2	0.5	0.17603	150.9	145.9	0.791	1.81	1.12	168.59	0.526	0.100	2.84	2.84																					
48.450	19.0025	0.1440987	0.424155	6	34.7	12.3	0.5	0.17623	146.3	141.4	0.768	1.82	1.12	163.84	0.489	0.100	2.64	2.64																					
48.470	18.1892	0.1294737	0.4232912	6	33.0	12.3	0.5	0.17643	140.1	135.1	0.721	1.82	1.12	156.82	0.439	0.100	2.37	2.37																					
48.490	18.1597	0.1044671	0.4636334	6	31.6	10.8	0.5	0.17663	140.1	135.2	0.582	1.76	1.08	151.43	0.403	0.100	2.18	2.18																					
48.510	17.4064	0.0879374	0.473251	6	29.7	10.4	0.5	0.17683	134.5	129.5	0.511	1.75	1.07	143.93	0.357	0.100	1.93	1.93																					
48.530	17.3169	0.0887668	0.4439662	6	29.6	10.6	0.5	0.17703	133.5	128.5	0.519	1.76	1.08	143.51	0.355	0.100	1.92	1.92																					
48.550	17.8283	0.0900082	0.4007444	6	30.3	10.3	0.5	0.17723	136.9	132.0	0.512	1.74	1.07	146.04	0.370	0.100	2.00	2.00																					
48.570	19.1428	0.0917009	0.4445421	6	31.9	9.3	0.5	0.17743	147.0	142.1	0.485	1.70	1.04	152.88	0.412	0.100	2.23	2.23																					
48.590	18.1089	0.0810986	0.4498692	6	30.0	9.5	0.5	0.17763	139.2	134.3	0.453	1.71	1.04	145.33	0.365	0.100	1.98	1.98																					
48.610	16.9202	0.0818302	0.3915875	6	28.3	11.0	0.5	0.17783	126.8	121.8	0.504	1.77	1.08	137.52	0.322	0.100	1.74	1.74																					
48.630	16.7076	0.0819852	0.403336	6	28.5	10.8	0.5	0.17803	128.2	123.3	0.498	1.76	1.08	138.49	0.327	0.100	1.77	1.77																					
48.650	17.9788	0.0840808	0.4698532	6	30.1	9.8	0.5	0.17823	138.2	133.2	0.473	1.72	1.05	145.44	0.366	0.100	1.98	1.98																					
48.690	18.5262	0.0797117	0.4673192	6	30.4	9.1	0.5	0.17863	142.1	137.1	0.435	1.69	1.03	146.80	0.374	0.100	2.03	2.03																					
48.710	16.1842	0.0797655	0.3944671	6	27.8	11.2	0.5	0.17883	124.0	119.0	0.501	1.78	1.09	135.19	0.310	0.100	1.68	1.68																					
48.730	17.1683	0.0798337	0.3902917	6	28.9	10.3	0.5	0.17903	131.2	126.2	0.473	1.74	1.07	139.94	0.335	0.100	1.81	1.81																					
48.750	15.1392	0.0788851	0.3900038	6	26.6	12.3	0.5	0.17923	116.0	111.0	0.531	1.82	1.12	129.78	0.283	0.100	1.53	1.53																					
48.770	14.9374	0.0766282	0.3969147	6	26.1	12.4	0.5	0.17943	113.7	108.7	0.526	1.82	1.12	127.75	0.274	0.100	1.48	1.48																					
48.790	15.0451	0.0780233	0.3731009	6	26.4	12.3	0.5	0.17963	115.0	110.1	0.529	1.82	1.12	128.96	0.279	0.100	1.51	1.51																					
48.810	16.0254	0.0630932	0.3923362	6	26.5	10.1	0.5	0.17983	122.4	117.4	0.401	1.74	1.06	129.95	0.284	0.100	1.54	1.54																					
48.830	16.1454	0.0626215	0.3814804	6	26.9	10.3	0.5	0.18003	123.2	118.2	0.418	1.74	1.07	131.29	0.290	0.100	1.57	1.57																					
48.850	19.7715	0.0602287	0.4258539	6	30.2	7.2	0.5	0.18023	150.4	145.5	0.308	1.60	1.00	150.45	0.397	0.100	2.15	2.15																					
48.870	19.921	0.0667451	0.3769019	6	30.8	7.6	0.5	0.18043	151.1	146.1	0.340	1.62	1.00	151.11	0.401	0.100	2.17	2.17																					
48.890	20.9709	0.0699816	0.35902	6	32.0	7.2	0.5	0.18063	158.0	153.0	0.340	1.60	1.00	157.96	0.447	0.100	2.42	2.42																					
48.910	20.3927	0.0858603	0.361554	6	32.9	8.4	0.5	0.18083	154.3	149.4	0.427	1.66	1.01	155.86	0.432	0.100	2.34	2.34																					
48.930	20.1896	0.0756114	0.3759653	6	31.9	7.9	0.5	0.18103	152.8	147.9	0.380	1.64	1.00	152.85	0.412	0.100	2.24	2.24																					
48.970	19.1816	0.0643642	0.3665356	6	30.0	7.9	0.5	0.18143	145.1	140.1	0.341	1.64	1.00	145.13	0.364	0.100	1.98	1.98																					
48.990	17.4784	0.0607185	0.3750569	6	28.0	8.8	0.5	0.18163	132.5	127.5	0.353	1.68	1.02	135.69	0.312	0.100	1.70	1.70																					

CPT Verileri		Pa(MPa)										0.1										B Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı														
49.010	17.9114	0.0610719	0.3799878	6	28.4	8.6	0.5	0.18183	135.6	130.7	0.347	1.67	1.02	137.72	0.323	100	2.59														
49.030	20.0262	0.0833926	0.3695015	6	32.4	8.5	0.5	0.18203	151.2	146.2	0.423	1.67	1.01	153.38	0.416	0.100	1.75														
49.050	17.4111	0.0912855	0.320751	6	30.0	11.1	0.5	0.18223	131.4	126.4	0.535	1.77	1.09	142.89	0.351	0.100	2.26														
49.070	16.8304	0.0869143	0.3202327	6	29.1	11.4	0.5	0.18243	127.0	122.0	0.527	1.78	1.09	139.01	0.330	0.100	1.91														
49.090	16.7898	0.0758036	0.3517636	6	28.4	10.6	0.5	0.18263	126.8	121.9	0.460	1.75	1.07	136.23	0.315	0.100	1.71														
49.110	17.6437	0.0565458	0.3643184	6	27.8	8.5	0.5	0.18283	135.2	128.2	0.326	1.66	1.01	134.90	0.308	0.100	1.67														
49.130	15.3617	0.0525901	0.3819411	6	25.2	10.0	0.5	0.18303	116.4	111.4	0.349	1.73	1.06	123.25	0.254	0.100	1.38														
49.150	14.8918	0.0524475	0.4691045	6	24.7	10.4	0.5	0.18343	113.5	108.5	0.357	1.75	1.07	121.33	0.246	0.100	1.34														
49.170	16.3891	0.0579098	0.3598839	6	26.7	9.6	0.5	0.18363	123.7	118.7	0.360	1.71	1.05	129.47	0.282	0.100	1.53														
49.190	14.3416	0.0626964	0.3680329	6	24.8	12.1	0.5	0.18383	108.6	103.6	0.447	1.81	1.11	120.90	0.244	0.100	1.33														
49.230	17.0796	0.0575998	0.3740224	6	27.4	9.0	0.5	0.18403	128.7	123.7	0.343	1.69	1.03	132.54	0.297	0.100	1.61														
49.250	21.6648	0.0595653	0.3756061	6	32.1	6.4	0.5	0.18423	162.4	157.4	0.279	1.56	1.00	162.38	0.478	0.100	2.60														
49.270	18.0194	0.063056	0.3618708	6	28.8	8.7	0.5	0.18443	135.4	130.4	0.356	1.68	1.02	138.26	0.326	0.100	1.77														
49.290	18.1541	0.0640232	0.3488553	6	29.1	8.7	0.5	0.18463	136.2	131.2	0.389	1.68	1.02	139.05	0.330	0.100	1.80														
49.310	17.4147	0.065071	0.3618132	6	28.4	9.4	0.5	0.18483	130.8	125.8	0.381	1.70	1.04	136.02	0.314	0.100	1.71														
49.330	16.8304	0.0652323	0.4010036	6	27.8	9.8	0.5	0.18503	126.7	121.7	0.394	1.72	1.05	133.48	0.301	0.100	1.64														
49.350	16.3984	0.0681029	0.3858573	6	27.6	10.5	0.5	0.18523	123.3	118.3	0.423	1.75	1.07	132.07	0.294	0.100	1.60														
49.370	16.0033	0.0730321	0.3805741	6	27.5	11.2	0.5	0.18543	120.3	115.3	0.465	1.78	1.09	131.37	0.291	0.100	1.58														
49.390	17.2772	0.0765166	0.4062155	6	29.2	10.3	0.5	0.18563	129.8	124.8	0.450	1.74	1.07	138.44	0.327	0.100	1.78														
49.410	16.1962	0.0683882	0.4077705	6	27.4	10.7	0.5	0.18583	121.8	116.8	0.429	1.76	1.08	131.18	0.290	0.100	1.58														
49.430	15.8251	0.0683164	0.3899174	6	26.6	10.7	0.5	0.18603	118.9	113.9	0.408	1.76	1.08	127.95	0.275	0.100	1.50														
49.450	16.4454	0.0687912	0.3919043	6	27.7	10.5	0.5	0.18623	123.4	118.4	0.426	1.75	1.07	132.33	0.295	0.100	1.61														
49.470	14.5143	0.0636326	0.3914147	6	25.2	12.1	0.5	0.18663	109.1	104.1	0.447	1.81	1.11	121.63	0.247	0.100	1.35														
49.530	16.6227	0.0706822	0.405726	6	28.1	10.5	0.5	0.18703	124.5	119.5	0.432	1.75	1.07	133.58	0.302	0.100	1.64														
49.550	13.8395	0.0753572	0.3959644	6	25.2	14.1	0.5	0.18723	104.0	99.0	0.556	1.88	1.17	121.54	0.247	0.100	1.35														
49.740	11.3609	0.0407043	0.4948475	6	20.2	13.9	0.5	0.18913	86.2	81.2	0.364	1.87	1.16	100.15	0.173	0.099	0.95														
49.760	15.7383	0.0536131	0.4993972	6	26.1	10.0	0.5	0.18933	118.0	113.0	0.345	1.73	1.06	124.87	0.261	0.099	1.42														
49.780	24.0991	0.1587002	0.5112897	6	42.4	9.8	0.5	0.18953	178.8	173.8	0.663	1.72	1.05	187.96	0.698	0.099	3.81														
49.800	30.404	0.1587002	0.5112897	6	49.3	6.8	0.5	0.18973	224.4	219.4	0.525	1.58	1.00	224.44	1.131	0.099	4.00														
49.820	32.3066	0.3657805	0.5313312	6	62.7	11.3	0.5	0.18993	238.3	233.3	1.138	1.78	1.09	260.33	1.721	0.099	4.00														
49.840	42.4711	0.444368	0.543454	6	79.4	8.7	0.5	0.19013	312.0	307.0	1.050	1.67	1.02	318.11	3.074	0.099	4.00														
49.860	41.5479	0.4492951	0.5783252	6	80.4	9.8	0.5	0.19033	305.4	300.4	1.190	1.72	1.05	321.11	3.159	0.099	4.00														
49.880	40.1134	0.528331	0.3629074	6	79.6	11.0	0.5	0.19053	293.2	288.2	1.328	1.77	1.06	317.93	3.069	0.099	4.00														
49.900	29.215	0.6617158	0.2878668	6	66.4	20.0	0.5	0.19073	213.6	208.6	2.297	2.04	1.36	290.00	2.348	0.099	4.00														
49.920	26.9321	0.5459768	0.0917995	6	59.6	19.7	0.5	0.19093	195.6	190.6	2.073	2.03	1.34	263.02	1.772	0.099	4.00														
49.940	21.9528	0.6759825	0.0850902	5	53.3	29.1	0.5	0.19113	159.4	154.4	3.167	2.23	1.75	278.83	2.096	0.099	4.00														
49.960	20.1278	0.6945459	0.1442059	5	50.2	32.7	0.5	0.19133	146.6	141.6	3.547	2.29	1.93	282.94	2.187	0.099	4.00														
49.980	21.2005	0.3719745	0.367601	5	46.5	20.5	0.5	0.19153	158.8	150.8	1.782	2.05	1.38	214.45	0.997	0.099	4.00														
50.000	20.6687	0.3719745	0.367601	5	45.7	21.2	0.5	0.19173	151.9	146.9	1.828	2.07	1.40	212.98	0.978	0.099	4.00														
50.020	20.1684	0.1526488	0.2613015	6	37.3	12.7	0.5	0.19193	147.6	142.6	0.773	1.83	1.13	166.76	0.511	0.099	2.80														
50.040	21.4931	0.1255036	0.2634323	6	37.4	10.3	0.5	0.19213	157.1	152.1	0.596	1.74	1.07	167.48	0.517	0.099	2.83														

Definlik m	qc Kont Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı	B Bölgesi	
																		100	2.59
50.060	21.4931	0.124321	0.2908039	6	37.3	10.2	0.5	0.19233	157.1	152.1	0.590	1.74	1.06	167.21	0.515	0.099	2.82		
50.080	22.2233	0.1493813	0.2990682	6	39.7	10.9	0.5	0.19253	162.3	157.3	0.684	1.77	1.08	175.67	0.584	0.099	3.19		
50.100	22.4707	0.1292307	0.3063822	6	38.8	9.8	0.5	0.19273	164.1	159.1	0.585	1.72	1.05	172.71	0.559	0.099	3.06		
50.120	22.6811	0.1363795	0.32245	6	39.5	10.0	0.5	0.19293	165.6	160.6	0.611	1.73	1.06	175.20	0.580	0.099	3.17		
50.140	22.8113	0.1363795	0.32245	6	39.6	9.9	0.5	0.19313	166.5	161.5	0.608	1.73	1.06	175.75	0.585	0.099	3.20		
50.160	23.0458	0.1426355	0.3427219	6	40.3	10.0	0.5	0.19333	168.2	163.2	0.629	1.73	1.06	178.15	0.606	0.099	3.31		
50.180	23.8794	0.1495425	0.3601142	6	41.7	9.8	0.5	0.19353	174.2	169.2	0.635	1.72	1.05	183.38	0.654	0.099	3.58		
50.200	25.2474	0.1550359	0.3819411	6	43.7	9.2	0.5	0.19373	184.1	179.1	0.622	1.70	1.04	190.67	0.725	0.099	3.97		
50.220	25.9324	0.1592024	0.4005141	6	44.7	9.0	0.5	0.19393	189.1	184.1	0.621	1.69	1.03	194.57	0.765	0.099	4.00		
50.260	26.2435	0.1640014	0.5959479	6	45.6	8.9	0.5	0.19433	192.5	187.5	0.627	1.68	1.03	197.66	0.798	0.099	4.00		
50.280	27.1417	0.1778712	0.5562391	6	47.5	9.0	0.5	0.19453	195.6	193.6	0.659	1.69	1.03	204.18	0.872	0.099	4.00		
50.300	27.4426	0.1661857	0.5491555	6	48.3	9.1	0.5	0.19473	200.6	195.6	0.682	1.69	1.03	207.06	0.906	0.099	4.00		
50.320	27.4426	0.1910404	0.5501057	6	48.6	9.3	0.5	0.19493	200.6	195.6	0.700	1.70	1.04	207.96	0.916	0.099	4.00		
50.340	27.0355	0.1944195	0.5509984	6	48.3	9.6	0.5	0.19513	197.5	192.5	0.723	1.71	1.05	205.74	0.902	0.099	4.00		
50.360	27.1371	0.1874133	0.544865	6	48.1	9.3	0.5	0.19533	198.1	193.1	0.695	1.70	1.04	205.77	0.890	0.099	4.00		
50.380	27.3374	0.1905134	0.5277606	6	48.5	9.3	0.5	0.19553	199.3	194.3	0.701	1.70	1.04	207.12	0.906	0.099	4.00		
50.400	27.0291	0.2022504	0.5265512	6	48.8	9.9	0.5	0.19573	197.0	192.0	0.753	1.73	1.06	207.86	0.915	0.099	4.00		
50.420	26.9063	0.215184	0.5275302	6	49.3	10.4	0.5	0.19593	196.0	191.0	0.805	1.75	1.07	209.53	0.936	0.099	4.00		
50.440	26.9561	0.2222708	0.5194099	6	49.8	10.6	0.5	0.19613	196.2	191.2	0.830	1.75	1.07	210.88	0.952	0.099	4.00		
50.460	27.9882	0.2193443	0.5185749	6	50.9	10.0	0.5	0.19633	203.4	198.4	0.789	1.73	1.06	215.03	1.005	0.099	4.00		
50.480	27.8165	0.2174346	0.5225062	6	50.6	10.0	0.5	0.19653	202.1	197.1	0.787	1.73	1.06	213.87	0.990	0.099	4.00		
50.500	27.438	0.2225746	0.5304961	6	50.4	10.4	0.5	0.19673	199.4	194.4	0.816	1.75	1.07	213.01	0.979	0.099	4.00		
50.560	26.2776	0.2057659	0.5776917	6	48.2	10.5	0.5	0.19733	191.2	186.2	0.787	1.75	1.07	204.82	0.879	0.099	4.00		
50.580	26.5952	0.2024922	0.5600113	6	48.4	10.2	0.5	0.19753	193.2	188.2	0.766	1.74	1.06	205.56	0.888	0.099	4.00		
50.600	26.4078	0.1914744	0.5430221	6	47.6	10.0	0.5	0.19773	191.7	186.7	0.730	1.73	1.06	202.58	0.853	0.099	4.00		
50.640	24.7914	0.1949651	0.5376374	6	45.9	11.1	0.5	0.19813	179.9	174.9	0.792	1.77	1.09	195.68	0.777	0.099	4.00		
50.660	24.8625	0.1993797	0.5185749	6	46.2	11.2	0.5	0.19833	180.2	175.2	0.808	1.78	1.09	196.64	0.787	0.099	4.00		
50.680	24.7065	0.1947977	0.5209361	6	45.7	11.2	0.5	0.19853	179.0	174.0	0.794	1.78	1.09	195.07	0.770	0.099	4.00		
50.700	23.9689	0.1948101	0.5241324	6	44.8	11.7	0.5	0.19873	173.7	168.7	0.834	1.81	1.11	191.64	0.735	0.099	4.00		
50.720	23.4649	0.1941033	0.5149765	6	44.2	12.0	0.5	0.19893	170.0	165.0	0.834	1.81	1.11	189.10	0.709	0.099	3.89		
50.740	22.4688	0.1920634	0.5091588	6	42.8	12.7	0.5	0.19913	162.8	157.8	0.862	1.83	1.13	184.11	0.660	0.099	3.63		
50.760	22.4688	0.1917348	0.5100541	6	42.8	12.7	0.5	0.19933	162.8	157.8	0.861	1.83	1.13	184.01	0.659	0.099	3.62		
50.780	22.1655	0.1813743	0.504062	6	42.0	12.5	0.5	0.19953	160.9	155.9	0.824	1.82	1.12	180.94	0.631	0.099	3.47		
50.820	21.8919	0.1865329	0.5681028	6	41.9	12.9	0.5	0.19993	158.8	153.8	0.858	1.84	1.14	180.58	0.628	0.099	3.45		
50.840	22.1655	0.1792166	0.5539931	6	41.9	12.4	0.5	0.20013	160.5	155.5	0.815	1.82	1.12	180.31	0.625	0.099	3.44		
50.860	22.6913	0.1776852	0.5477733	6	42.5	12.0	0.5	0.20033	164.2	159.2	0.789	1.81	1.11	182.40	0.644	0.099	3.54		
50.880	23.3781	0.1827322	0.5450566	6	43.6	11.7	0.5	0.20053	168.9	163.9	0.787	1.80	1.10	185.40	0.682	0.099	3.75		
50.900	25.145	0.184956	0.5520538	6	45.9	10.6	0.5	0.20073	181.4	176.4	0.740	1.75	1.07	194.87	0.768	0.099	4.00		
50.920	26.2047	0.1901848	0.5584276	6	47.5	10.2	0.5	0.20093	188.8	183.8	0.730	1.74	1.06	200.60	0.831	0.099	4.00		
50.940	27.9522	0.1984124	0.5606736	6	50.1	9.5	0.5	0.20113	201.0	196.0	0.714	1.71	1.04	209.84	0.939	0.099	4.00		

CPT Verileri		Pa(MPa)										0.1										B Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı														
																100	2.59														
50.960	28.8301	0.2140059	0.5667494	6	52.0	9.5	0.5	0.20133	207.2	202.2	0.746	1.71	1.05	216.52	1.024	0.099	4.00														
50.980	30.2101	0.2114329	0.5627469	6	53.5	8.8	0.5	0.20163	216.8	211.8	0.703	1.68	1.02	221.89	1.096	0.099	4.00														
51.000	30.5305	0.2106144	0.5643018	6	53.9	8.7	0.5	0.20173	218.9	213.9	0.693	1.67	1.02	223.01	1.111	0.099	4.00														
51.020	30.5018	0.2055737	0.5623438	6	53.5	8.5	0.5	0.20163	218.6	213.6	0.677	1.67	1.01	221.82	1.095	0.099	4.00														
51.040	30.3089	0.2013327	0.5566423	6	53.1	8.5	0.5	0.20213	217.1	212.1	0.668	1.66	1.01	220.09	1.071	0.099	4.00														
51.100	27.6023	0.1940289	0.5730556	6	49.6	9.6	0.5	0.20273	197.9	192.9	0.707	1.71	1.05	207.09	0.906	0.099	4.00														
51.120	26.9958	0.1985116	0.5382133	6	49.1	10.1	0.5	0.20293	193.3	188.3	0.740	1.73	1.06	205.00	0.881	0.099	4.00														
51.140	26.4355	0.2008429	0.5294883	6	48.5	10.5	0.5	0.20313	189.2	184.2	0.765	1.75	1.07	202.80	0.856	0.099	4.00														
51.160	25.2834	0.2010661	0.5187764	6	47.1	11.2	0.5	0.20333	180.9	175.9	0.801	1.78	1.09	197.50	0.796	0.099	4.00														
51.180	24.016	0.1968872	0.5108289	6	45.3	12.0	0.5	0.20353	171.9	166.9	0.827	1.81	1.11	190.92	0.727	0.099	4.00														
51.200	22.9424	0.1783238	0.4954234	6	43.0	12.0	0.5	0.20373	164.2	159.2	0.785	1.81	1.11	182.60	0.646	0.099	3.56														
51.220	21.9214	0.1695257	0.4822559	6	41.2	12.4	0.5	0.20383	157.0	151.9	0.781	1.82	1.12	176.30	0.590	0.099	3.25														
51.240	20.0373	0.1625629	0.4859786	6	38.5	13.8	0.5	0.20413	143.6	138.6	0.821	1.87	1.16	166.53	0.510	0.099	2.81														
51.260	18.4348	0.1480545	0.4768489	6	35.7	14.6	0.5	0.20433	132.3	127.3	0.814	1.89	1.18	158.62	0.437	0.099	2.41														
51.280	17.7775	0.133918	0.4776279	6	34.1	14.5	0.5	0.20453	127.6	122.6	0.764	1.89	1.18	150.75	0.399	0.099	2.20														
51.300	17.0566	0.1225345	0.4735966	6	32.9	14.5	0.5	0.20473	123.8	118.7	0.721	1.89	1.18	145.85	0.369	0.099	2.03														
51.320	16.112129	0.112129	0.4746044	6	32.1	13.9	0.5	0.20493	122.5	117.4	0.661	1.87	1.16	142.47	0.349	0.099	1.92														
51.340	17.0279	0.1043617	0.5096483	6	31.7	13.5	0.5	0.20513	122.4	117.4	0.620	1.86	1.15	140.89	0.340	0.099	1.87														
51.360	18.8723	0.1103697	0.5429069	6	34.4	12.0	0.5	0.20533	135.5	130.5	0.590	1.81	1.11	150.62	0.398	0.099	2.19														
51.380	19.8305	0.1140278	0.5463911	6	35.8	11.4	0.5	0.20553	142.1	137.1	0.580	1.78	1.10	155.74	0.431	0.099	2.38														
51.400	22.239	0.1197692	0.5561528	6	39.0	9.9	0.5	0.20573	158.9	153.9	0.543	1.73	1.06	167.84	0.520	0.099	2.87														
51.420	25.4653	0.1238451	0.5640715	6	42.8	8.2	0.5	0.20593	181.4	176.4	0.488	1.65	1.01	182.33	0.644	0.099	3.55														
51.440	27.1251	0.1352821	0.5814063	6	45.5	7.9	0.5	0.20613	193.0	188.0	0.501	1.64	1.00	192.98	0.748	0.099	4.00														
51.460	29.576	0.1516001	0.576511	6	49.3	7.4	0.5	0.20633	209.9	204.9	0.515	1.61	1.00	209.91	0.940	0.099	4.00														
51.480	30.3689	0.1551661	0.5736603	6	50.4	7.2	0.5	0.20653	215.3	210.3	0.513	1.60	1.00	215.31	1.008	0.099	4.00														
51.500	31.0936	0.1643734	0.5689379	6	51.9	7.3	0.5	0.20673	220.2	215.2	0.531	1.60	1.00	220.21	1.073	0.099	4.00														
51.520	30.9283	0.1685027	0.5661159	6	52.0	7.5	0.5	0.20693	218.9	213.9	0.548	1.61	1.00	218.94	1.056	0.099	4.00														
51.540	30.0947	0.1796445	0.5558936	6	51.8	8.1	0.5	0.20713	213.0	207.9	0.600	1.65	1.00	213.25	0.982	0.099	4.00														
51.560	29.7273	0.186354	0.554569	6	52.5	8.8	0.5	0.20733	210.3	205.3	0.664	1.68	1.02	215.23	1.007	0.099	4.00														
51.580	28.5024	0.2049227	0.5467655	6	51.6	9.7	0.5	0.20753	201.6	196.6	0.723	1.72	1.05	211.55	0.960	0.099	4.00														
51.600	27.8386	0.209641	0.542187	6	51.0	10.2	0.5	0.20773	196.9	191.9	0.758	1.74	1.06	209.39	0.934	0.099	4.00														
51.660	26.8324	0.1858508	0.5893826	6	48.6	9.9	0.5	0.20833	190.0	185.0	0.696	1.73	1.06	200.73	0.832	0.099	4.00														
51.680	26.9407	0.1827756	0.5672102	6	48.0	10.0	0.5	0.20853	187.7	182.7	0.693	1.73	1.06	198.73	0.810	0.099	4.00														
51.700	26.0404	0.1615523	0.553158	6	46.2	9.5	0.5	0.20873	184.1	179.0	0.625	1.71	1.05	192.38	0.742	0.099	4.00														
51.720	25.5161	0.1540128	0.5408049	6	45.1	9.6	0.5	0.20893	180.3	175.2	0.608	1.71	1.05	188.51	0.703	0.099	3.88														
51.740	23.6966	0.1465416	0.533462	6	42.5	10.4	0.5	0.20913	167.6	162.5	0.623	1.73	1.07	178.95	0.613	0.099	3.39														
51.760	23.1889	0.1320146	0.5165016	6	41.0	10.1	0.5	0.20933	163.8	158.8	0.575	1.74	1.06	173.66	0.567	0.099	3.13														
51.780	22.9461	0.1287533	0.5099939	6	40.5	10.1	0.5	0.20953	162.0	157.0	0.566	1.73	1.06	171.85	0.552	0.099	3.05														
51.800	21.1432	0.1290633	0.5023919	6	38.4	11.4	0.5	0.20973	149.5	144.4	0.617	1.78	1.10	163.76	0.488	0.099	2.70														
51.820	20.1019	0.1232661	0.4883974	6	36.8	11.9	0.5	0.20993	142.1	137.1	0.621	1.80	1.11	157.79	0.445	0.099	2.46														
51.840	19.4779	0.1250331	0.4867272	6	36.1	12.6	0.5	0.21013	137.7	132.7	0.650	1.83	1.13	155.32	0.428	0.099	2.37														

CPT Verileri		Paq(MPa)										0.1										B Bölgesi									
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı														
																		100	2.59												
51.860	16.2511	0.1256346	0.49493339	6	34.6	13.8	0.5	0.21033	129.3	124.2	0.697	1.87	1.16	150.09	0.394	0.099	2.18														
51.880	17.5661	0.1158978	0.4896644	6	33.2	14.0	0.5	0.21063	124.4	119.4	0.669	1.87	1.16	144.94	0.363	0.099	2.01														
51.900	16.2913	0.1104441	0.5380117	6	31.4	15.0	0.5	0.21073	115.9	110.9	0.686	1.91	1.19	138.52	0.327	0.099	1.81														
51.920	15.358	0.1048887	0.5338364	6	29.9	15.8	0.5	0.21093	109.4	104.4	0.692	1.93	1.22	133.38	0.301	0.099	1.66														
51.940	14.5457	0.0984033	0.5228078	6	28.5	16.5	0.5	0.21113	103.7	98.7	0.686	1.95	1.24	128.49	0.277	0.099	1.53														
51.960	13.8136	0.0865957	0.5128158	6	26.9	16.6	0.5	0.21133	98.6	93.5	0.637	1.95	1.24	122.38	0.250	0.099	1.39														
51.980	14.3527	0.0838948	0.520389	6	27.4	15.5	0.5	0.21153	102.3	97.2	0.593	1.92	1.21	123.71	0.256	0.099	1.42														
52.000	14.0859	0.076436	0.517567	6	26.7	15.2	0.5	0.21173	100.4	95.3	0.551	1.91	1.20	120.54	0.243	0.099	1.34														
52.020	12.4843	0.0739621	0.5100227	6	24.4	17.6	0.5	0.21193	89.3	84.2	0.603	1.98	1.27	113.69	0.217	0.099	1.20														
52.040	11.9895	0.0774156	0.4888005	6	23.9	19.0	0.5	0.21213	85.7	80.6	0.659	2.02	1.32	113.12	0.215	0.099	1.19														
52.060	13.0437	0.08139	0.5035725	6	25.6	17.4	0.5	0.21233	93.0	87.9	0.635	1.97	1.27	117.93	0.233	0.099	1.29														
52.080	12.909	0.082971	0.4901539	6	25.5	17.9	0.5	0.21253	91.9	86.9	0.655	1.99	1.28	117.90	0.232	0.099	1.29														
52.100	12.4631	0.0839878	0.4778295	6	24.9	18.8	0.5	0.21273	86.7	83.7	0.688	2.01	1.32	116.72	0.226	0.098	1.26														
52.120	13.1047	0.0801127	0.493091	6	25.6	17.3	0.5	0.21293	93.2	88.2	0.623	1.97	1.26	117.68	0.232	0.098	1.28														
52.160	14.0592	0.0860215	0.5020176	6	27.2	16.3	0.5	0.21333	98.7	94.7	0.622	1.94	1.23	122.92	0.253	0.098	1.40														
52.180	14.5106	0.0868364	0.5172215	6	28.0	15.9	0.5	0.21353	102.8	97.8	0.622	1.93	1.22	125.48	0.264	0.098	1.46														
52.200	16.1796	0.0855937	0.5245931	6	29.9	13.5	0.5	0.21373	114.3	109.2	0.536	1.86	1.15	131.54	0.292	0.098	1.62														
52.220	16.4593	0.0746255	0.5313024	6	29.6	12.3	0.5	0.21393	116.2	111.1	0.459	1.82	1.12	130.07	0.285	0.098	1.58														
52.240	18.1578	0.0661251	0.5277606	6	31.0	10.1	0.5	0.21413	127.7	122.7	0.368	1.74	1.06	135.54	0.312	0.098	1.73														
52.260	17.0981	0.0710852	0.5088133	6	30.1	11.4	0.5	0.21433	120.3	115.2	0.421	1.79	1.10	131.91	0.293	0.098	1.63														
52.280	15.8906	0.0710852	0.5088133	6	28.7	12.7	0.5	0.21453	112.0	106.9	0.454	1.83	1.13	125.46	0.268	0.098	1.49														
52.300	14.9112	0.075154	0.4895204	6	27.7	14.2	0.5	0.21473	105.1	100.1	0.512	1.88	1.17	123.15	0.254	0.098	1.41														
52.320	14.3103	0.0819418	0.4875623	6	27.4	15.7	0.5	0.21493	100.9	95.9	0.583	1.93	1.21	122.53	0.251	0.098	1.39														
52.340	15.0137	0.0938028	0.5185749	6	29.0	15.7	0.5	0.21513	105.9	100.9	0.634	1.93	1.21	126.62	0.278	0.098	1.54														
52.360	16.6255	0.1499899	0.5154074	6	33.8	17.6	0.5	0.21533	116.8	111.8	0.914	1.98	1.27	148.80	0.366	0.098	2.14														
52.380	19.3081	0.1813619	0.3504956	6	38.7	16.3	0.5	0.21553	133.5	128.9	0.959	1.94	1.23	164.97	0.498	0.098	2.76														
52.400	18.0581	0.0694856	0.2497706	6	30.9	10.8	0.5	0.21573	124.6	119.6	0.396	1.76	1.08	134.45	0.306	0.098	1.70														
52.420	22.7393	0.1671325	0.547399	6	42.9	12.2	0.5	0.21593	158.5	153.4	0.741	1.81	1.12	177.13	0.597	0.098	3.31														
52.440	24.6179	0.1817463	0.5311584	6	46.0	11.5	0.5	0.21613	171.1	166.0	0.745	1.79	1.10	187.96	0.698	0.098	3.87														
52.460	25.2724	0.1725018	0.5234701	6	46.4	10.7	0.5	0.21633	175.4	170.3	0.688	1.76	1.08	189.11	0.709	0.098	3.93														
52.480	26.2822	0.1652666	0.5349882	6	47.2	9.9	0.5	0.21653	182.2	177.2	0.635	1.73	1.05	192.22	0.741	0.098	4.00														
52.500	25.1782	0.1747587	0.4986485	6	46.4	10.9	0.5	0.21673	174.4	169.4	0.701	1.77	1.08	188.90	0.707	0.098	3.92														
52.520	27.5414	0.1541369	0.5075751	6	47.9	8.3	0.5	0.21693	190.4	185.4	0.564	1.68	1.02	195.01	0.770	0.098	4.00														
52.540	23.9735	0.1534982	0.4875047	6	43.7	10.9	0.5	0.21713	166.0	161.0	0.647	1.76	1.08	179.51	0.618	0.098	3.43														
52.560	21.9325	0.157795	0.4984313	6	41.4	12.5	0.5	0.21733	152.1	147.1	0.728	1.83	1.13	171.32	0.548	0.098	3.04														
52.580	19.8416	0.1617907	0.4802195	6	38.8	14.6	0.5	0.21753	137.8	132.7	0.826	1.89	1.18	163.14	0.464	0.098	2.69														
52.600	19.2185	0.1593162	0.4797588	6	37.9	15.2	0.5	0.21773	133.5	128.5	0.843	1.91	1.20	160.20	0.462	0.098	2.57														
52.620	21.2965	0.1525372	0.4942716	6	40.3	12.8	0.5	0.21793	147.6	142.6	0.725	1.84	1.13	167.42	0.516	0.098	2.87														
52.640	18.7994	0.1457418	0.4860938	6	36.7	14.9	0.5	0.21813	130.6	125.5	0.786	1.90	1.19	155.49	0.430	0.098	2.39														
52.660	18.2803	0.132275	0.5038317	6	35.4	14.7	0.5	0.21833	127.0	121.9	0.734	1.90	1.18	150.40	0.396	0.098	2.20														
52.700	17.6917	0.1211542	0.5098787	6	34.1	14.6	0.5	0.21873	123.1	118.0	0.694	1.89	1.18	145.56	0.367	0.098	2.04														

CPT Verileri										B Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Pa(MPa)	0.1	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı		
52.720	17.7886	0.114034	0.5063944	6	33.8	14.0	0.5	0.21893	123.6	118.6	0.650	1.88	1.17	144.29	0.359	0.98	2.59		
52.740	19.7807	0.1128312	0.4984469	6	36.3	12.1	0.5	0.21913	137.0	132.0	0.578	1.81	1.11	152.55	0.410	0.98	2.00		
52.760	18.4745	0.1151934	0.4936381	6	34.8	13.4	0.5	0.21933	128.1	123.0	0.632	1.86	1.15	147.33	0.377	0.98	2.28		
52.780	19.3357	0.1224663	0.4941276	6	36.3	13.1	0.5	0.21953	133.8	128.8	0.642	1.84	1.14	152.57	0.410	0.98	2.28		
52.800	19.7484	0.1259384	0.494214	6	37.0	12.9	0.5	0.21973	136.6	131.5	0.646	1.84	1.14	155.04	0.427	0.98	2.37		
52.820	22.7642	0.1266018	0.4986197	6	40.8	10.6	0.5	0.21993	156.9	151.8	0.562	1.75	1.07	168.38	0.524	0.98	2.91		
52.840	21.4165	0.1308055	0.4953337	6	39.4	11.8	0.5	0.22013	147.7	142.6	0.618	1.80	1.11	163.25	0.485	0.98	2.69		
52.860	24.9022	0.1295159	0.4914209	6	43.5	9.4	0.5	0.22033	171.1	166.0	0.526	1.70	1.04	178.06	0.605	0.98	3.36		
52.880	21.7266	0.1338684	0.4864393	6	40.0	11.7	0.5	0.22053	149.6	144.5	0.624	1.80	1.10	165.11	0.499	0.98	2.77		
52.900	21.1478	0.1146292	0.5215984	6	38.2	11.1	0.5	0.22073	145.9	140.8	0.548	1.77	1.09	158.77	0.452	0.98	2.51		
52.920	18.8511	0.1040331	0.5001171	6	34.7	12.4	0.5	0.22093	130.2	125.1	0.559	1.82	1.12	146.28	0.371	0.98	2.06		
52.960	18.4043	0.0942368	0.5217711	6	33.6	12.2	0.5	0.22133	127.2	122.2	0.518	1.81	1.12	142.18	0.347	0.98	1.93		
52.980	18.5059	0.0981615	0.5169911	6	33.9	12.4	0.5	0.22153	127.8	122.6	0.537	1.82	1.12	143.45	0.355	0.98	1.97		
53.000	18.2926	0.1051801	0.5118944	6	34.1	13.1	0.5	0.22173	126.3	121.2	0.583	1.84	1.14	144.05	0.358	0.98	1.99		
53.020	18.4292	0.1049893	0.5155514	6	34.3	12.9	0.5	0.22193	127.2	122.1	0.577	1.84	1.14	144.57	0.361	0.98	2.01		
53.040	17.3344	0.1084848	0.5001171	6	33.1	14.4	0.5	0.22213	119.7	114.6	0.635	1.89	1.18	140.67	0.339	0.98	1.89		
53.060	23.235	0.102359	0.5065096	6	39.8	9.2	0.5	0.22233	159.2	154.2	0.445	1.69	1.03	164.71	0.496	0.98	2.76		
53.080	20.1066	0.1117337	0.5088996	6	36.8	11.9	0.5	0.22253	138.2	133.1	0.563	1.80	1.11	153.21	0.414	0.98	1.80		
53.100	20.4804	0.1108719	0.5116664	6	37.2	11.5	0.5	0.22273	140.7	135.6	0.548	1.79	1.10	154.64	0.424	0.98	1.89		
53.120	21.6085	0.1085468	0.4801619	6	38.4	10.6	0.5	0.22293	147.9	142.9	0.509	1.75	1.07	158.92	0.453	0.98	1.86		
53.140	17.6667	0.1203086	0.4761594	6	34.1	14.9	0.5	0.22313	121.5	116.4	0.682	1.90	1.19	144.54	0.361	0.98	1.88		
53.160	17.5043	0.1258206	0.4762458	6	34.2	15.4	0.5	0.22333	120.3	115.3	0.730	1.92	1.21	145.15	0.364	0.98	1.88		
53.180	16.7939	0.125585	0.4851147	6	33.2	16.4	0.5	0.22353	115.2	110.2	0.763	1.95	1.23	142.22	0.348	0.98	1.88		
53.200	13.6318	0.0779551	0.5014417	6	26.6	16.9	0.5	0.22373	94.5	89.4	0.583	1.96	1.25	118.13	0.233	0.98	1.87		
53.220	15.7393	0.1180765	0.5108577	6	31.5	17.2	0.5	0.22393	108.6	103.5	0.762	1.97	1.26	136.81	0.318	0.98	2.03		
53.240	19.3357	0.1151624	0.5120959	6	36.1	12.8	0.5	0.22413	132.6	127.5	0.603	1.84	1.13	150.34	0.396	0.98	2.64		
53.260	17.207	0.1082554	0.502795	6	33.0	14.6	0.5	0.22433	118.2	113.2	0.639	1.89	1.18	139.83	0.334	0.98	3.77		
53.280	18.9083	0.1087488	0.4932926	6	35.1	12.8	0.5	0.22453	129.5	124.4	0.573	1.83	1.13	146.54	0.373	0.98	1.80		
53.300	19.5056	0.1083444	0.5024207	6	36.0	12.3	0.5	0.22473	133.5	128.4	0.565	1.82	1.12	149.58	0.391	0.98	1.89		
53.320	20.1435	0.1008958	0.4962297	6	36.2	11.3	0.5	0.22493	137.6	132.6	0.507	1.78	1.09	150.58	0.398	0.98	1.86		
53.340	20.0253	0.1020924	0.5007506	6	36.2	11.5	0.5	0.22513	136.8	131.7	0.516	1.79	1.10	150.31	0.396	0.98	1.88		
53.360	22.7642	0.0957496	0.5014129	6	39.0	9.2	0.5	0.22533	155.0	149.9	0.425	1.70	1.04	160.64	0.466	0.98	1.88		
53.380	19.1336	0.0985707	0.4890885	6	34.9	12.1	0.5	0.22553	130.7	125.6	0.523	1.81	1.11	145.53	0.367	0.98	1.88		
53.400	19.3404	0.1069286	0.5221167	6	35.7	12.4	0.5	0.22573	132.2	127.1	0.560	1.82	1.12	148.37	0.384	0.98	1.87		
53.420	17.8827	0.108491	0.4998003	6	33.9	14.0	0.5	0.22593	122.3	117.2	0.616	1.87	1.16	142.42	0.349	0.98	2.03		
53.440	17.0307	0.1198312	0.4962166	6	33.4	15.7	0.5	0.22613	116.6	111.5	0.715	1.93	1.22	141.67	0.344	0.98	1.80		
53.500	18.1274	0.1151872	0.5235565	6	34.7	14.2	0.5	0.22673	123.9	118.8	0.644	1.88	1.17	144.94	0.363	0.98	1.89		
53.520	16.5607	0.1120065	0.502939	6	32.4	15.8	0.5	0.22693	113.2	108.1	0.688	1.93	1.22	137.87	0.324	0.98	1.86		
53.540	16.4141	0.1090986	0.517999	6	32.1	15.8	0.5	0.22713	112.4	107.3	0.675	1.93	1.22	136.66	0.317	0.98	1.88		
53.560	16.1205	0.1085592	0.5017008	6	31.7	16.1	0.5	0.22733	110.2	105.2	0.685	1.94	1.23	135.35	0.311	0.98	1.88		
53.580	16.8544	0.1039711	0.5012113	6	32.4	14.9	0.5	0.22753	115.1	110.0	0.627	1.90	1.19	136.99	0.319	0.98	1.88		

CPT Verileri		Pa(MPa)										0.1										B Bölgesi									
Derinlik m	qc Koni Uç Direnci	qs Sürtünme Katsayısı	u Boşluk Suğu Basıncı	Alan No.	Nc	Fc [%]	n	σ_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı														
53.600	16.7372	0.0959938	0.5139964	6	31.8	14.4	0.5	0.22773	114.3	109.3	0.560	1.89	1.18	134.53	0.306	0.098	2.59														
53.620	16.1944	0.0962932	0.4973527	6	31.1	15.1	0.5	0.22793	110.6	105.5	0.605	1.91	1.20	132.43	0.296	0.098	1.87														
53.640	16.5876	0.094832	0.5046379	6	31.6	14.5	0.5	0.22813	113.2	108.1	0.581	1.89	1.18	133.63	0.302	0.098	2.03														
53.660	17.1627	0.0961216	0.5037741	6	32.4	14.0	0.5	0.22833	116.9	111.9	0.569	1.87	1.17	136.26	0.315	0.098	2.03														
53.680	17.1461	0.0909259	0.5113184	6	32.1	13.6	0.5	0.22853	116.8	111.7	0.538	1.86	1.16	134.95	0.309	0.098	2.03														
53.700	16.8138	0.090498	0.5011537	6	31.6	14.0	0.5	0.22873	114.5	109.4	0.547	1.87	1.17	133.40	0.301	0.098	2.03														
53.720	16.2368	0.0909577	0.5047243	6	30.9	14.7	0.5	0.22893	110.6	105.6	0.569	1.90	1.19	131.14	0.290	0.098	2.03														
53.740	16.9347	0.0864493	0.5263784	6	31.6	13.5	0.5	0.22913	115.4	110.3	0.518	1.86	1.15	132.97	0.299	0.098	2.03														
53.760	15.9111	0.0923581	0.5068264	6	30.6	15.2	0.5	0.22933	108.4	103.3	0.590	1.91	1.20	130.20	0.285	0.098	2.03														
53.780	15.6479	0.0905186	0.5041772	6	30.2	15.4	0.5	0.22953	106.6	101.5	0.588	1.92	1.21	128.68	0.278	0.098	2.03														
53.800	19.0311	0.0894316	0.5087557	6	34.4	11.8	0.5	0.22973	128.9	123.9	0.476	1.80	1.11	142.48	0.349	0.098	1.89														
53.820	16.4648	0.0916575	0.5082373	6	31.3	14.5	0.5	0.22993	111.9	106.9	0.566	1.89	1.18	132.15	0.295	0.098	1.86														
53.840	16.9587	0.0909903	0.5152346	6	31.9	13.9	0.5	0.23013	115.2	110.1	0.543	1.87	1.16	133.93	0.303	0.098	1.88														
53.860	17.7729	0.0899648	0.5221743	6	32.9	13.0	0.5	0.23033	120.5	115.5	0.513	1.84	1.14	137.17	0.320	0.098	1.88														
53.880	18.672	0.0977213	0.5125566	6	34.5	12.7	0.5	0.23053	126.4	121.3	0.531	1.83	1.13	142.70	0.350	0.098	1.88														
53.900	19.369	0.1147594	0.4941852	6	36.4	13.1	0.5	0.23073	130.8	125.7	0.601	1.85	1.14	149.30	0.389	0.098	1.87														
53.920	21.6177	0.1247417	0.5065096	6	39.9	11.8	0.5	0.23093	145.6	140.5	0.584	1.80	1.11	150.98	0.468	0.098	2.03														
53.940	22.7965	0.1299065	0.5164152	6	41.7	11.2	0.5	0.23113	153.3	148.3	0.576	1.78	1.09	167.09	0.514	0.098	1.87														
53.960	24.5357	0.1230677	0.4927743	6	43.3	9.7	0.5	0.23133	164.6	159.5	0.507	1.72	1.05	172.96	0.561	0.098	2.03														
54.020	24.8505	0.1140402	0.5029102	6	43.1	9.2	0.5	0.23183	166.5	161.4	0.464	1.70	1.03	172.22	0.555	0.098	2.64														
54.040	27.906	0.1188887	0.4943292	6	46.8	7.9	0.5	0.23213	186.4	181.3	0.430	1.64	1.00	186.41	0.682	0.098	3.77														
54.060	29.1245	0.1339304	0.4953946	6	49.3	7.9	0.5	0.23233	194.3	189.3	0.464	1.64	1.00	194.33	0.762	0.098	3.38														
54.080	25.5373	0.152314	0.5048683	6	46.5	10.4	0.5	0.23253	170.8	165.7	0.603	1.75	1.07	182.80	0.648	0.098	3.45														
54.100	26.621	0.163772	0.5025935	6	48.5	10.3	0.5	0.23273	177.8	172.7	0.622	1.74	1.07	189.48	0.713	0.098	3.11														
54.120	28.1719	0.1517994	0.4801331	6	49.6	9.0	0.5	0.23293	187.7	182.7	0.545	1.69	1.03	193.40	0.753	0.098	2.84														
54.140	28.6067	0.1567905	0.4849419	6	50.4	9.0	0.5	0.23313	190.5	185.5	0.554	1.69	1.03	196.13	0.782	0.098	1.87														
54.160	26.8721	0.1551723	0.4752955	6	48.3	9.8	0.5	0.23333	179.0	174.0	0.584	1.72	1.05	188.66	0.705	0.098	2.03														
54.180	27.8569	0.1454194	0.4793844	6	48.8	9.0	0.5	0.23353	185.4	180.4	0.528	1.69	1.03	190.69	0.725	0.098	2.64														
54.200	24.9853	0.1371297	0.4805665	6	44.9	10.2	0.5	0.23373	166.6	161.5	0.555	1.74	1.06	177.18	0.597	0.098	3.77														
54.220	24.1664	0.1237559	0.5142844	6	43.1	10.1	0.5	0.23393	161.4	156.3	0.518	1.73	1.06	171.14	0.546	0.098	3.38														
54.240	24.6022	0.1248533	0.4911617	6	43.6	9.9	0.5	0.23413	164.0	158.9	0.513	1.73	1.06	173.06	0.562	0.098	3.45														

CPT Verileri		Pa(MPa) 0.1										C Bölgesi					
Derinlik m	qc	fs	u	zone No.	Nc	Fc	n	σ'_{v0} [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
47.710	8.3506	0.0214961	0.473395	6	14.5	14.7	0.5	0.16883	67.9	62.9	0.283	1.90	1.19	80.48	0.128	0.106	0.69
47.730	8.2841	0.0276963	0.473251	6	14.9	16.2	0.5	0.16903	67.4	62.4	0.341	1.94	1.23	82.86	0.133	0.106	0.71
47.750	8.7688	0.0293207	0.4746332	6	15.5	15.4	0.5	0.16923	71.1	66.1	0.341	1.92	1.21	85.72	0.139	0.105	0.74
47.770	9.6466	0.037071	0.4744316	6	17.2	15.0	0.5	0.16943	77.8	72.8	0.391	1.90	1.19	92.77	0.154	0.104	0.82
47.790	10.7468	0.0449886	0.4728767	6	19.0	14.1	0.5	0.16963	86.2	81.2	0.425	1.88	1.17	100.71	0.175	0.104	0.84
47.810	11.78	0.0518088	0.4555419	6	20.6	13.3	0.5	0.16983	93.9	86.9	0.447	1.85	1.15	107.75	0.196	0.104	1.05
47.830	12.8305	0.0591313	0.4568534	6	22.3	12.6	0.5	0.17003	101.9	96.9	0.468	1.83	1.13	115.06	0.222	0.104	1.19
47.850	13.6641	0.0570418	0.4744316	6	23.2	11.4	0.5	0.17023	108.4	103.4	0.423	1.78	1.10	118.71	0.236	0.104	1.26
47.870	14.1656	0.0546361	0.4767929	6	23.6	10.6	0.5	0.17043	112.3	107.3	0.390	1.75	1.07	120.64	0.243	0.104	1.30
47.890	14.4549	0.0547725	0.4774552	6	23.8	10.3	0.5	0.17063	114.2	109.2	0.384	1.74	1.07	121.90	0.248	0.103	1.33
47.910	15.2482	0.0519142	0.4780311	6	24.5	9.3	0.5	0.17083	120.3	115.3	0.344	1.70	1.04	125.03	0.262	0.103	1.40
47.930	14.6906	0.0404067	0.4811122	6	23.0	8.8	0.5	0.17123	115.9	111.0	0.278	1.68	1.02	118.65	0.235	0.103	1.26
47.970	16.8658	0.0516229	0.4786934	6	26.1	8.0	0.5	0.17143	132.6	127.6	0.309	1.64	1.00	132.33	0.296	0.103	1.58
47.990	17.4609	0.0552003	0.4784342	6	27.0	7.9	0.5	0.17163	136.9	132.0	0.319	1.64	1.00	136.93	0.319	0.103	1.71
48.010	17.5901	0.0607743	0.4793556	6	27.6	8.2	0.5	0.17183	137.8	132.9	0.349	1.65	1.00	138.39	0.327	0.103	1.75
48.030	17.7849	0.0647362	0.4816881	6	28.2	8.4	0.5	0.17203	139.3	134.3	0.368	1.66	1.01	140.48	0.338	0.103	1.81
48.050	17.8495	0.0699816	0.4790389	6	28.6	8.7	0.5	0.17223	139.7	134.7	0.396	1.67	1.02	142.30	0.348	0.103	1.87
48.070	17.7932	0.0739745	0.4795284	6	28.9	9.0	0.5	0.17243	139.2	134.2	0.420	1.69	1.03	143.15	0.353	0.103	1.89
48.090	17.616	0.0777442	0.4786661	6	29.0	9.4	0.5	0.17263	137.7	132.7	0.446	1.70	1.04	143.29	0.354	0.103	1.90
48.110	16.9338	0.0867779	0.4792693	6	28.9	10.6	0.5	0.17283	132.5	127.5	0.518	1.75	1.07	142.21	0.347	0.103	1.87
48.130	16.307	0.0871747	0.4786661	6	28.2	11.2	0.5	0.17303	127.6	122.6	0.540	1.78	1.09	139.16	0.331	0.103	1.78
48.150	15.6645	0.0921163	0.481141	6	27.8	12.2	0.5	0.17323	122.7	117.7	0.595	1.82	1.12	137.12	0.320	0.103	1.72
48.170	15.502	0.0880428	0.4832142	6	27.4	12.1	0.5	0.17343	121.4	116.4	0.574	1.81	1.11	135.32	0.310	0.103	1.67
48.190	16.0593	0.0771924	0.4840205	6	27.3	10.8	0.5	0.17363	125.4	120.4	0.486	1.76	1.08	135.29	0.310	0.103	1.67
48.210	17.0524	0.0589957	0.4858922	6	27.1	8.5	0.5	0.17383	133.2	128.3	0.348	1.67	1.01	135.22	0.310	0.103	1.67
48.230	16.1187	0.0407291	0.4860074	6	24.6	7.8	0.5	0.17403	125.9	120.9	0.255	1.63	1.00	125.87	0.265	0.103	1.43
48.250	18.2077	0.0403469	0.4840781	6	26.5	6.6	0.5	0.17423	141.6	136.6	0.226	1.56	1.00	141.61	0.344	0.103	1.85
48.270	18.3551	0.0442136	0.4837613	6	27.1	6.7	0.5	0.17443	142.9	138.0	0.243	1.57	1.00	142.94	0.352	0.103	1.89
48.290	19.5139	0.0518274	0.4869288	6	28.8	6.6	0.5	0.17463	151.4	146.4	0.288	1.57	1.00	151.35	0.402	0.103	2.17
48.310	20.4712	0.0517159	0.4896932	6	29.7	6.1	0.5	0.17483	158.5	153.6	0.255	1.54	1.00	158.53	0.451	0.103	2.43
48.330	21.182	0.0535697	0.4885414	6	30.5	5.9	0.5	0.17503	163.8	158.8	0.255	1.53	1.00	163.80	0.489	0.103	2.64
48.350	21.4931	0.052125	0.4876487	6	30.7	5.7	0.5	0.17523	166.0	161.1	0.244	1.51	1.00	166.05	0.506	0.103	2.73
48.370	21.7192	0.0561552	0.4905858	6	31.3	5.8	0.5	0.17543	167.7	162.7	0.261	1.52	1.00	167.68	0.518	0.103	2.80
48.390	22.166	0.0601171	0.4857194	6	32.1	5.8	0.5	0.17563	170.9	165.9	0.273	1.52	1.00	170.92	0.544	0.103	2.84
48.410	22.4024	0.0632296	0.4837613	6	32.6	5.9	0.5	0.17583	172.6	167.6	0.284	1.53	1.00	172.59	0.558	0.103	3.01
48.430	21.9002	0.0668195	0.4877063	6	32.5	6.3	0.5	0.17603	168.7	163.8	0.308	1.55	1.00	168.74	0.527	0.103	2.84
48.450	20.9632	0.0694484	0.4874759	6	31.9	6.9	0.5	0.17623	161.6	156.6	0.334	1.58	1.00	161.58	0.472	0.103	2.59

CPT Verileri		Pa (MPa) 0.1										C Bölgesi					
Derinlik m	qc	fs	u	Boşluk zone No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qtCN	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
48.470	20.1462	0.0677433	0.4836461	6	31.0	7.3	0.5	0.17643	155.3	150.3	0.339	1.60	1.00	155.31	0.428	106	2.54
48.490	19.8659	0.0673899	0.4863241	6	30.7	7.4	0.5	0.17663	153.3	148.3	0.342	1.61	1.00	153.29	0.415	0.103	2.31
48.530	18.7902	0.0594661	0.4925727	6	29.0	7.6	0.5	0.17703	144.9	139.9	0.319	1.62	1.00	144.93	0.363	0.103	2.24
48.550	18.7616	0.0740427	0.488311	6	30.2	8.5	0.5	0.17723	144.6	139.6	0.398	1.67	1.01	146.64	0.373	0.103	1.96
48.570	18.4735	0.0843041	0.4866121	6	30.7	9.4	0.5	0.17743	142.3	137.4	0.461	1.70	1.04	148.08	0.382	0.103	2.02
48.590	18.3711	0.0879498	0.4891461	6	30.8	9.7	0.5	0.17763	141.5	136.5	0.493	1.72	1.05	148.48	0.384	0.103	2.06
48.610	18.3668	0.0854833	0.4885126	6	30.7	9.5	0.5	0.17783	141.5	136.6	0.469	1.71	1.04	147.90	0.381	0.103	2.06
48.630	18.5843	0.0847567	0.4882554	6	30.9	9.3	0.5	0.17803	142.9	138.0	0.490	1.70	1.04	148.59	0.385	0.103	2.08
48.650	18.6637	0.0832748	0.4892612	6	30.8	9.2	0.5	0.17823	143.5	138.5	0.450	1.70	1.04	148.54	0.385	0.103	2.08
48.670	18.7108	0.0819232	0.4890309	6	30.8	9.1	0.5	0.17843	143.7	138.8	0.442	1.69	1.03	148.36	0.384	0.103	2.08
48.690	18.5868	0.0862083	0.4909026	6	29.8	8.3	0.5	0.17863	142.6	137.6	0.371	1.66	1.01	143.80	0.357	0.103	1.93
48.710	18.1791	0.0504882	0.4877639	6	27.7	7.4	0.5	0.17883	139.6	134.6	0.280	1.61	1.00	139.59	0.333	0.103	1.80
48.730	17.892	0.0461481	0.4866585	6	27.0	7.3	0.5	0.17903	137.4	132.4	0.261	1.61	1.00	137.36	0.321	0.103	1.74
48.750	18.0535	0.0547601	0.4932638	6	28.0	7.8	0.5	0.17923	138.5	133.6	0.306	1.63	1.00	138.54	0.327	0.103	1.77
48.770	18.7773	0.0651082	0.4899811	6	29.6	8.0	0.5	0.17943	143.8	138.9	0.350	1.64	1.00	143.58	0.355	0.103	1.93
48.790	19.6053	0.0651393	0.4915649	6	30.5	7.5	0.5	0.17963	149.9	145.0	0.335	1.62	1.00	149.95	0.394	0.103	2.13
48.810	18.1643	0.0416777	0.4972663	6	26.9	6.9	0.5	0.17983	139.2	134.2	0.232	1.58	1.00	139.16	0.331	0.103	1.79
48.830	17.4193	0.0486281	0.4868424	6	26.9	7.8	0.5	0.18003	133.5	128.5	0.282	1.63	1.00	133.45	0.301	0.103	1.63
48.850	16.0051	0.0520196	0.4799316	6	25.8	9.2	0.5	0.18023	122.8	117.8	0.329	1.70	1.03	127.05	0.271	0.103	1.47
48.870	15.3571	0.0554979	0.4771096	6	25.4	10.1	0.5	0.18043	117.9	112.9	0.366	1.73	1.06	124.94	0.261	0.103	1.42
48.890	14.9186	0.0630498	0.4849595	6	25.5	11.2	0.5	0.18063	114.6	109.6	0.428	1.78	1.09	124.86	0.261	0.103	1.42
48.910	14.6777	0.0785069	0.4912481	6	26.2	12.8	0.5	0.18083	112.8	107.8	0.541	1.83	1.13	127.88	0.274	0.103	1.48
48.930	14.974	0.0837026	0.4940125	6	26.9	12.8	0.5	0.18103	115.0	110.0	0.566	1.84	1.13	130.38	0.286	0.103	1.55
48.950	16.7344	0.0845831	0.4941276	6	29.0	11.1	0.5	0.18123	128.0	123.0	0.511	1.77	1.09	139.07	0.330	0.103	1.79
48.970	17.6732	0.0749976	0.4916392	6	29.4	9.6	0.5	0.18143	134.9	129.9	0.429	1.71	1.05	141.13	0.341	0.103	1.85
48.990	18.2935	0.0617229	0.4929758	6	29.0	8.2	0.5	0.18163	139.4	134.4	0.341	1.65	1.01	140.10	0.336	0.103	1.82
49.010	18.7191	0.0653377	0.4998003	6	29.7	8.2	0.5	0.18183	142.5	137.5	0.352	1.65	1.00	143.04	0.352	0.103	1.91
49.030	18.8216	0.0605883	0.4930046	6	29.4	7.8	0.5	0.18203	143.2	138.2	0.325	1.63	1.00	143.16	0.353	0.103	1.92
49.050	18.4403	0.0528319	0.4855178	6	28.4	7.6	0.5	0.18223	140.2	135.2	0.289	1.62	1.00	140.20	0.336	0.103	1.83
49.070	16.3116	0.0506699	0.5085629	6	26.1	8.9	0.5	0.18243	124.5	119.5	0.314	1.68	1.03	127.83	0.274	0.103	1.49
49.090	17.1719	0.0615307	0.495481	6	27.9	9.1	0.5	0.18263	130.7	125.7	0.362	1.69	1.03	134.91	0.308	0.103	1.67
49.110	18.7099	0.0754192	0.4940988	6	30.6	8.9	0.5	0.18283	142.0	137.0	0.407	1.68	1.03	145.75	0.368	0.103	2.00
49.130	19.8333	0.0745325	0.4944156	6	31.7	8.1	0.5	0.18303	150.3	145.3	0.379	1.65	1.00	150.32	0.396	0.103	2.15
49.150	20.534	0.0766034	0.4951931	6	32.6	7.8	0.5	0.18323	155.4	150.4	0.376	1.63	1.00	155.35	0.429	0.103	2.33
49.170	21.0537	0.0757602	0.4988867	6	33.0	7.5	0.5	0.18343	159.1	154.2	0.363	1.61	1.00	159.14	0.455	0.103	2.47
49.190	21.5272	0.0731685	0.5004626	6	33.3	7.1	0.5	0.18363	162.6	157.6	0.343	1.59	1.00	162.65	0.479	0.103	2.61
49.210	22.1171	0.0764174	0.4939637	6	34.1	7.0	0.5	0.18383	166.8	161.8	0.348	1.59	1.00	166.77	0.511	0.103	2.78

CPT Verileri		Pa(MPa) 0.1										C Bölgesi					
Derinlik m	qc	fs	u	Boşluk zone No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
49.230	22.07	0.0804599	0.4950779	6	34.5	7.2	0.5	0.18403	166.3	161.4	0.368	1.60	1.00	166.34	0.508	105	2.54
49.250	21.6417	0.0941004	0.4957114	6	35.1	8.1	0.5	0.18423	163.1	158.1	0.438	1.65	1.00	163.32	0.485	0.103	2.76
49.270	21.7257	0.0938958	0.498015	6	35.2	8.1	0.5	0.18443	163.6	158.7	0.436	1.64	1.00	163.58	0.487	0.103	2.64
49.290	22.1402	0.0902004	0.4975543	6	35.4	7.7	0.5	0.18463	166.6	161.6	0.411	1.62	1.00	166.60	0.510	0.103	2.66
49.310	22.5574	0.0933811	0.4957139	6	36.0	7.6	0.5	0.18483	169.6	164.6	0.417	1.62	1.00	169.60	0.534	0.103	2.90
49.330	22.6608	0.0938028	0.4970548	6	36.2	7.6	0.5	0.18503	170.2	165.3	0.417	1.62	1.00	170.25	0.539	0.103	2.83
49.350	20.8072	0.05711	0.503227	6	31.2	6.6	0.5	0.18523	156.6	151.6	0.277	1.57	1.00	156.58	0.437	0.103	2.38
49.370	20.7306	0.0506618	0.5100515	6	30.6	6.3	0.5	0.18543	156.0	151.0	0.246	1.55	1.00	155.98	0.433	0.103	2.36
49.390	20.6503	0.0566946	0.5016432	6	31.1	6.7	0.5	0.18563	155.2	150.3	0.277	1.57	1.00	155.25	0.428	0.103	2.33
49.410	20.6734	0.0617911	0.4945308	6	31.6	7.0	0.5	0.18583	155.3	150.3	0.302	1.59	1.00	155.28	0.428	0.103	2.33
49.430	20.7241	0.0664413	0.4983606	6	32.1	7.3	0.5	0.18603	155.6	150.6	0.323	1.60	1.00	155.60	0.430	0.103	2.34
49.450	20.6641	0.0728647	0.4934366	6	32.6	7.7	0.5	0.18623	155.0	150.1	0.356	1.62	1.00	155.04	0.427	0.103	2.32
49.470	20.3706	0.0740427	0.494214	6	32.4	7.9	0.5	0.18643	152.8	147.8	0.367	1.64	1.00	152.81	0.412	0.103	2.24
49.490	19.9736	0.0787859	0.4932062	6	32.4	8.4	0.5	0.18663	149.8	144.8	0.398	1.66	1.01	151.50	0.403	0.103	2.20
49.510	19.4364	0.0812598	0.4973239	6	32.0	8.9	0.5	0.18683	145.8	140.8	0.422	1.68	1.03	149.82	0.393	0.103	2.14
49.530	19.0939	0.081607	0.4904706	6	31.7	9.2	0.5	0.18703	143.2	138.2	0.432	1.70	1.04	148.31	0.383	0.103	2.09
49.550	18.8068	0.0840002	0.4898083	6	31.5	9.6	0.5	0.18723	141.0	136.0	0.451	1.71	1.05	147.56	0.379	0.103	2.06
49.570	18.6425	0.0840002	0.4942428	6	31.4	9.7	0.5	0.18743	139.8	134.8	0.455	1.72	1.05	146.78	0.374	0.103	2.04
49.590	18.5179	0.0830082	0.4946627	6	31.2	9.8	0.5	0.18763	138.8	133.8	0.453	1.72	1.05	145.92	0.369	0.103	2.01
49.610	15.4854	0.0662305	0.4968213	6	26.7	11.2	0.5	0.18783	116.6	111.6	0.433	1.78	1.09	127.30	0.272	0.103	1.48
49.630	16.9605	0.0633598	0.4988213	6	28.1	9.7	0.5	0.18803	127.3	122.3	0.378	1.72	1.05	133.51	0.301	0.103	1.64
49.650	16.5294	0.0600303	0.4947323	6	27.4	9.8	0.5	0.18823	124.1	119.1	0.367	1.72	1.05	130.54	0.287	0.103	1.56
49.670	16.1547	0.0577672	0.4923711	6	26.8	9.9	0.5	0.18843	121.3	116.3	0.362	1.73	1.06	128.11	0.276	0.103	1.50
49.690	16.367	0.0542951	0.4939261	6	26.8	9.5	0.5	0.18863	122.8	117.8	0.336	1.71	1.04	128.09	0.275	0.103	1.50
49.710	17.9252	0.0482127	0.4974967	6	27.8	7.9	0.5	0.18883	134.1	129.1	0.272	1.63	1.00	134.07	0.304	0.103	1.66
49.730	19.1354	0.0485847	0.503083	6	29.1	7.2	0.5	0.18903	142.8	137.8	0.256	1.60	1.00	142.84	0.351	0.103	1.92
49.750	19.9081	0.0531853	0.5025359	6	30.3	7.0	0.5	0.18923	148.4	143.4	0.270	1.59	1.00	148.38	0.384	0.103	2.09
49.770	20.1315	0.0530737	0.5117792	6	30.5	6.9	0.5	0.18943	150.0	145.0	0.266	1.58	1.00	149.99	0.394	0.103	2.15
49.790	19.9638	0.0568372	0.5120959	6	30.7	7.2	0.5	0.18963	148.8	143.8	0.287	1.60	1.00	148.84	0.387	0.103	2.11
49.810	18.9102	0.0600737	0.4963449	6	29.9	8.1	0.5	0.18983	140.9	135.9	0.321	1.65	1.00	140.83	0.340	0.103	1.85
49.830	18.0443	0.0678177	0.4887717	6	29.7	9.2	0.5	0.19003	134.4	129.4	0.380	1.70	1.04	139.31	0.331	0.103	1.81
49.850	17.6446	0.0739745	0.4935517	6	29.7	10.0	0.5	0.19023	131.5	126.5	0.424	1.73	1.05	139.08	0.330	0.103	1.80
49.870	18.2815	0.0767336	0.4961145	6	30.6	9.7	0.5	0.19043	136.1	131.1	0.424	1.72	1.05	142.71	0.350	0.103	1.91
49.890	18.4754	0.0622252	0.5013553	6	29.7	8.6	0.5	0.19063	137.4	132.5	0.340	1.67	1.02	139.56	0.333	0.103	1.82
49.910	19.0505	0.0685866	0.5031118	6	30.9	8.6	0.5	0.19083	141.5	136.6	0.364	1.67	1.02	143.89	0.357	0.103	1.95
49.930	19.2859	0.0749914	0.5031118	6	31.6	8.8	0.5	0.19103	143.2	138.2	0.393	1.68	1.02	146.69	0.374	0.103	2.04
49.950	19.7585	0.0776884	0.5038605	6	32.3	8.7	0.5	0.19123	146.5	141.5	0.397	1.67	1.02	149.46	0.390	0.103	2.13

CPT Verileri		Pa(MPa) 0.1										C Bölgesi					
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	zone No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
																106	2.54
49.970	20.4703	0.0773412	0.5046091	6	33.1	8.2	0.5	0.19143	151.6	146.6	0.381	1.65	1.00	152.34	0.409	0.103	2.23
49.990	20.7103	0.0784139	0.4948051	6	33.4	8.2	0.5	0.19163	153.2	148.2	0.382	1.65	1.00	153.56	0.417	0.103	2.28
50.010	20.5533	0.0784387	0.5021039	6	33.3	8.3	0.5	0.19183	152.0	147.0	0.385	1.65	1.01	152.92	0.413	0.103	2.26
50.030	20.6429	0.0836034	0.4984757	6	33.8	8.5	0.5	0.19203	152.6	147.6	0.409	1.67	1.01	154.70	0.424	0.103	2.32
50.050	20.8718	0.0868933	0.4959705	6	34.3	8.6	0.5	0.19223	154.1	149.1	0.420	1.67	1.02	156.52	0.437	0.103	2.39
50.070	20.8737	0.0884396	0.4966904	6	34.4	8.7	0.5	0.19243	154.1	149.1	0.428	1.67	1.02	156.91	0.439	0.103	2.40
50.090	20.5167	0.0906985	0.4971799	6	34.2	9.0	0.5	0.19263	151.4	146.4	0.446	1.69	1.03	155.90	0.432	0.103	2.36
50.110	20.1546	0.0937532	0.4999155	6	34.1	9.4	0.5	0.19283	148.7	143.7	0.470	1.71	1.04	155.03	0.427	0.103	2.33
50.130	19.7568	0.095142	0.5000883	6	33.7	9.8	0.5	0.19303	145.8	140.8	0.488	1.72	1.05	153.51	0.416	0.103	2.28
50.170	18.1338	0.0757354	0.5020752	6	30.6	9.9	0.5	0.19343	134.0	129.0	0.422	1.72	1.05	141.25	0.342	0.103	1.87
50.190	17.984	0.0802615	0.501672	6	30.7	10.3	0.5	0.19363	132.7	127.7	0.452	1.74	1.07	141.55	0.344	0.103	1.86
50.210	18.1191	0.0833306	0.5013553	6	31.1	10.4	0.5	0.19383	133.7	128.7	0.465	1.75	1.07	142.98	0.352	0.103	1.93
50.230	19.0628	0.0787363	0.5038605	6	31.9	9.4	0.5	0.19403	140.6	135.6	0.417	1.70	1.04	146.24	0.371	0.103	2.03
50.250	19.6228	0.0780233	0.5041484	6	32.4	8.9	0.5	0.19423	144.4	139.4	0.402	1.68	1.03	148.41	0.384	0.103	2.10
50.270	19.6302	0.0758718	0.5139388	6	32.3	8.8	0.5	0.19443	144.5	139.5	0.390	1.68	1.02	147.86	0.381	0.103	2.08
50.290	19.2924	0.0753882	0.5118656	6	31.9	9.0	0.5	0.19463	142.0	137.0	0.395	1.69	1.03	146.21	0.371	0.103	2.03
50.310	18.7246	0.0783095	0.5105986	6	31.5	9.6	0.5	0.19483	137.8	132.8	0.422	1.71	1.05	144.39	0.360	0.103	1.97
50.330	18.5142	0.0803421	0.5021327	6	31.4	9.9	0.5	0.19503	136.2	131.2	0.439	1.73	1.06	143.86	0.357	0.103	1.95
50.350	18.889	0.0809621	0.4980726	6	31.9	9.7	0.5	0.19523	138.8	133.8	0.433	1.72	1.05	145.67	0.367	0.103	2.01
50.370	19.6804	0.082726	0.50166	6	32.8	9.3	0.5	0.19543	143.7	138.7	0.427	1.70	1.04	149.23	0.389	0.103	2.13
50.390	20.0163	0.0859155	0.5059625	6	33.4	9.2	0.5	0.19563	146.7	141.7	0.430	1.69	1.03	151.75	0.405	0.103	2.22
50.410	19.5641	0.0831694	0.5045515	6	32.8	9.4	0.5	0.19583	143.6	138.6	0.429	1.70	1.04	149.28	0.389	0.103	2.13
50.430	16.679	0.0700498	0.5134493	6	28.7	10.8	0.5	0.19603	122.8	117.8	0.425	1.76	1.08	132.64	0.297	0.103	1.63
50.450	17.7212	0.0617849	0.508151	6	29.2	9.3	0.5	0.19623	130.1	125.1	0.352	1.70	1.04	135.21	0.310	0.103	1.70
50.470	17.652	0.0646184	0.503083	6	29.4	9.6	0.5	0.19643	129.5	124.5	0.370	1.71	1.05	135.62	0.312	0.103	1.71
50.490	17.8911	0.0669311	0.5044364	6	29.8	9.6	0.5	0.19663	131.2	126.2	0.378	1.71	1.05	137.30	0.321	0.103	1.76
50.510	18.3369	0.0740923	0.5077766	6	30.9	9.7	0.5	0.19683	134.3	129.3	0.408	1.72	1.05	141.17	0.342	0.103	1.87
50.530	18.6619	0.0743155	0.50594755	6	31.2	9.5	0.5	0.19703	136.6	131.6	0.402	1.71	1.04	142.68	0.350	0.103	1.92
50.550	18.2962	0.0709674	0.5139388	6	30.6	9.6	0.5	0.19723	133.0	128.9	0.392	1.71	1.05	140.15	0.336	0.103	1.84
50.570	17.7101	0.0728151	0.5146299	6	30.1	10.2	0.5	0.19743	129.7	124.7	0.418	1.74	1.06	137.90	0.324	0.103	1.78
50.590	17.8163	0.0736273	0.5097347	6	30.3	10.2	0.5	0.19763	130.4	125.4	0.418	1.74	1.06	138.54	0.327	0.103	1.80
50.610	19.1003	0.0791207	0.5169047	6	32.1	9.5	0.5	0.19783	139.5	134.5	0.418	1.71	1.05	145.77	0.368	0.103	2.02
50.630	19.8472	0.0874662	0.5085829	6	33.6	9.5	0.5	0.19803	144.7	139.6	0.445	1.71	1.04	151.13	0.401	0.103	2.20
50.650	20.1167	0.0985645	0.3692959	6	34.5	10.1	0.5	0.19823	145.5	140.5	0.498	1.73	1.06	154.30	0.422	0.103	2.31
50.670	20.3844	0.0948506	0.3869227	6	34.6	9.7	0.5	0.19843	147.5	142.4	0.473	1.72	1.05	154.69	0.424	0.103	2.33
50.710	18.9277	0.0797903	0.5358233	6	32.1	9.7	0.5	0.19883	133.0	133.0	0.425	1.72	1.05	145.06	0.364	0.103	2.00
50.730	19.6819	0.0789037	0.5128886	6	32.8	9.2	0.5	0.19903	143.1	138.1	0.405	1.69	1.03	148.06	0.382	0.103	2.10

CPT Verileri		Pa(MPa) 0.1										C Bölgesi				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	zone No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs GRR	Oturma [m]	FL Güvenlik Katsayısı
50.750	19.2684	0.0810562	0.5089572	6	32.5	9.6	0.5	0.19923	140.1	135.1	0.425	1.71	1.05	146.72	0.374	2.54
50.770	18.9545	0.0809001	0.5121823	6	32.2	9.8	0.5	0.19943	137.8	132.8	0.431	1.72	1.05	145.24	0.365	2.05
50.790	18.8853	0.0785193	0.507863	6	31.9	9.7	0.5	0.19963	137.3	132.2	0.420	1.72	1.05	144.28	0.359	1.97
50.810	18.4855	0.0791827	0.5067976	6	31.6	10.1	0.5	0.19983	134.4	129.3	0.433	1.73	1.06	142.59	0.350	1.92
50.830	17.604	0.0749046	0.5069128	6	30.3	10.6	0.5	0.20003	128.1	123.0	0.430	1.75	1.07	137.45	0.321	1.77
50.850	16.8027	0.0625414	0.4950491	6	28.5	10.3	0.5	0.20023	122.2	117.2	0.377	1.74	1.07	130.51	0.287	1.58
50.870	16.2904	0.063397	0.4935605	6	28.0	10.9	0.5	0.20043	118.6	113.5	0.394	1.77	1.08	128.31	0.276	1.52
50.890	14.9518	0.0684058	0.5088421	6	26.8	12.7	0.5	0.20063	109.2	104.1	0.464	1.83	1.13	123.44	0.295	1.40
50.910	14.422	0.0738133	0.504494	6	26.5	13.9	0.5	0.20083	105.3	100.3	0.519	1.87	1.16	122.43	0.291	1.38
50.930	14.9528	0.0717549	0.5128158	6	27.0	13.0	0.5	0.20103	109.1	104.1	0.486	1.84	1.14	124.28	0.259	1.42
50.950	16.7482	0.0853391	0.5093316	6	30.1	12.2	0.5	0.20123	121.7	116.6	0.516	1.81	1.12	135.82	0.313	1.72
50.990	16.8138	0.1043369	0.3039634	6	31.0	13.7	0.5	0.20163	120.6	115.5	0.636	1.87	1.16	139.58	0.333	1.83
51.010	16.6725	0.1097187	0.2641106	6	31.1	14.3	0.5	0.20183	119.2	114.2	0.676	1.88	1.17	140.03	0.335	1.84
51.030	16.2617	0.1080384	0.285592	6	30.5	14.7	0.5	0.20203	116.4	111.4	0.692	1.90	1.18	137.94	0.324	1.78
51.050	16.103	0.0974361	0.32962	6	29.7	14.1	0.5	0.20223	115.0	110.0	0.623	1.88	1.17	134.54	0.306	1.69
51.070	16.0603	0.0745201	0.3859148	6	28.5	12.2	0.5	0.20243	115.8	110.8	0.473	1.81	1.12	129.38	0.281	1.55
51.090	16.6005	0.0557398	0.4416338	6	27.8	10.1	0.5	0.20263	119.7	114.7	0.341	1.74	1.06	127.13	0.271	1.49
51.110	16.8775	0.0408345	0.4949627	6	26.8	8.6	0.5	0.20283	122.0	117.0	0.245	1.67	1.02	124.15	0.258	1.42
51.130	17.1738	0.0427813	0.510541	6	27.3	8.6	0.5	0.20303	124.1	119.1	0.252	1.67	1.02	126.10	0.266	1.47
51.150	17.1775	0.0518398	0.4888293	6	28.1	9.3	0.5	0.20323	123.9	118.9	0.306	1.70	1.04	128.77	0.279	1.53
51.170	17.3058	0.056862	0.5170487	6	28.7	9.6	0.5	0.20343	125.0	119.9	0.332	1.71	1.05	130.87	0.288	1.59
51.190	17.928	0.058868	0.5273862	6	29.4	9.1	0.5	0.20363	129.3	124.3	0.321	1.69	1.03	133.65	0.302	1.66
51.210	18.576	0.0560522	0.5105986	6	30.0	8.6	0.5	0.20383	133.7	128.7	0.305	1.67	1.02	136.10	0.314	1.73
51.230	17.7258	0.0487929	0.5204836	6	28.4	8.5	0.5	0.20403	127.8	122.8	0.287	1.67	1.01	129.67	0.283	1.56
51.250	17.8551	0.0444864	0.5226526	6	28.3	8.3	0.5	0.20423	128.6	123.6	0.252	1.65	1.01	129.41	0.282	1.55
51.270	17.5587	0.0489929	0.5172503	6	28.4	8.8	0.5	0.20443	126.4	121.4	0.282	1.68	1.02	129.54	0.282	1.55
51.290	16.9809	0.0590593	0.5126718	6	28.6	10.1	0.5	0.20463	122.3	117.3	0.352	1.73	1.06	129.79	0.283	1.56
51.310	16.1279	0.0688505	0.5157241	6	28.3	11.5	0.5	0.20483	116.3	111.3	0.420	1.79	1.10	127.87	0.274	1.51
51.330	16.2451	0.0753014	0.5161273	6	29.0	12.1	0.5	0.20503	117.1	112.0	0.469	1.81	1.11	130.50	0.287	1.58
51.350	16.5765	0.0741109	0.5052164	6	29.3	11.7	0.5	0.20523	119.3	114.2	0.453	1.80	1.10	131.67	0.292	1.61
51.370	16.9753	0.0792199	0.4149581	6	30.0	11.8	0.5	0.20543	121.3	116.3	0.475	1.80	1.11	134.28	0.305	1.68
51.390	17.1156	0.0801065	0.3810484	6	30.2	11.9	0.5	0.20563	122.0	117.0	0.477	1.80	1.11	134.95	0.309	1.70
51.410	17.1193	0.0815946	0.3859724	6	30.3	11.8	0.5	0.20583	122.0	117.0	0.486	1.80	1.11	135.31	0.310	1.71
51.430	17.2181	0.0910995	0.4440814	6	31.1	12.4	0.5	0.20603	123.0	118.0	0.538	1.82	1.12	138.23	0.326	1.80
51.450	18.2835	0.0964068	0.5141404	6	32.8	11.7	0.5	0.20623	131.0	125.9	0.533	1.80	1.10	144.62	0.361	1.99
51.470	22.8039	0.0902438	0.4377464	6	37.4	8.2	0.5	0.20643	161.8	156.7	0.401	1.65	1.00	162.50	0.479	2.64
51.540	29.1873	0.0413863	0.536428	6	38.4	3.8	0.5	0.20713	206.5	201.5	0.143	1.38	1.00	206.53	0.899	4.00

CPT Verileri													Pa(MPa)			0.1			C Bölgesi												
Derinlik m	Koni Uç Direnci	qc	fs	u	Boşluk Suyu Basıncı	zone No.	Nc	Fc	n	σ'_{v0} [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL	Güvenlik Katsayısı											
								[%]					[%]																		
51.560	49.4526	0.0672721	0.5427629	7	55.5	1.8	55.5	1.8	0.5	0.20733	347.2	342.2	0.137	1.15	1.00	347.22	3.973	0.102	2.54	4.00											
51.570	47.6341	0.0299407	0.5355929	7	50.2	1.6	50.2	1.6	0.5	0.20743	334.5	329.4	0.083	1.11	1.00	334.46	3.559	0.102	4.00	4.00											
51.750	13.2847	0.7366638	0.5390771	5	38.1	54.0	38.1	54.0	0.5	0.20923	95.6	90.5	5.625	2.58	3.24	309.21	2.830	0.102	4.00	4.00											
51.770	13.2847	0.7366638	0.5353337	5	38.1	54.0	38.1	54.0	0.5	0.20943	95.5	90.5	5.626	2.59	3.24	309.25	2.830	0.102	4.00	4.00											
51.790	26.8998	0.7366638	0.547543	5	65.3	24.9	65.3	24.9	0.5	0.20963	189.6	184.5	2.757	2.15	1.55	294.06	2.445	0.102	4.00	4.00											
51.810	47.5796	0.7366638	0.5276182	6	99.8	11.6	99.8	11.6	0.5	0.20983	332.1	327.1	1.555	1.80	1.11	367.46	4.694	0.102	4.00	4.00											
51.850	60.8634	0.6432702	0.5742938	6	114.6	7.3	114.6	7.3	0.5	0.21023	423.7	418.7	1.080	1.60	1.00	423.73	7.155	0.102	4.00	4.00											
51.870	43.3074	0.5416366	0.5871653	6	86.7	10.6	86.7	10.6	0.5	0.21043	302.6	297.6	1.255	1.75	1.07	325.26	3.280	0.102	4.00	4.00											
51.890	21.9325	0.3724953	0.4213043	5	48.7	20.9	48.7	20.9	0.5	0.21063	154.0	149.0	1.723	2.06	1.39	213.85	0.989	0.102	4.00	4.00											
51.910	21.9325	0.4016176	0.4516258	5	49.5	21.8	49.5	21.8	0.5	0.21083	154.2	149.1	1.855	2.08	1.43	219.83	1.068	0.102	4.00	4.00											
51.930	23.4132	0.3471303	0.4754107	6	50.5	18.3	50.5	18.3	0.5	0.21103	164.4	159.4	1.499	2.00	1.30	213.35	0.983	0.102	4.00	4.00											
51.950	23.4132	0.2754995	0.4049198	6	48.0	15.9	48.0	15.9	0.5	0.21123	163.9	158.9	1.193	1.93	1.22	199.93	0.823	0.102	4.00	4.00											
51.990	21.0906	0.2294258	0.5440875	6	43.2	16.2	43.2	16.2	0.5	0.21163	148.7	143.7	1.096	1.94	1.23	182.85	0.649	0.102	3.59	3.59											
52.010	21.4783	0.1868925	0.5266532	6	42.0	14.0	42.0	14.0	0.5	0.21183	151.2	146.2	0.878	1.87	1.16	176.12	0.588	0.102	3.25	3.25											
52.030	20.7204	0.1776976	0.5204754	6	40.5	14.3	40.5	14.3	0.5	0.21203	145.9	140.8	0.866	1.88	1.17	171.09	0.546	0.102	3.02	3.02											
52.050	19.8453	0.1551413	0.5004626	6	38.3	14.0	38.3	14.0	0.5	0.21223	139.7	134.6	0.791	1.87	1.17	162.79	0.481	0.102	2.66	2.66											
52.070	19.2047	0.1490651	0.496892	6	37.2	14.3	37.2	14.3	0.5	0.21243	135.2	130.1	0.786	1.88	1.17	158.79	0.452	0.102	2.50	2.50											
52.090	18.9573	0.1383574	0.5063944	6	36.3	14.0	36.3	14.0	0.5	0.21263	133.5	128.4	0.739	1.87	1.17	155.50	0.430	0.102	2.38	2.38											
52.110	18.8914	0.132244	0.5042636	6	35.7	13.9	35.7	13.9	0.5	0.21283	131.6	126.5	0.716	1.87	1.16	153.03	0.413	0.102	2.29	2.29											
52.130	18.0646	0.1299871	0.4956266	6	34.7	14.4	34.7	14.4	0.5	0.21303	127.2	122.1	0.729	1.89	1.18	149.84	0.393	0.102	2.18	2.18											
52.150	17.2079	0.1343396	0.4977569	6	33.8	15.7	33.8	15.7	0.5	0.21323	121.3	116.2	0.792	1.93	1.22	147.36	0.378	0.102	2.09	2.09											
52.170	16.103	0.1354557	0.5065619	6	32.4	17.2	32.4	17.2	0.5	0.21343	113.7	108.7	0.853	1.97	1.26	143.56	0.355	0.102	1.97	1.97											
52.190	15.5177	0.1370739	0.5105122	6	31.6	18.2	31.6	18.2	0.5	0.21363	109.7	104.6	0.896	2.00	1.29	141.97	0.346	0.102	1.92	1.92											
52.210	15.1769	0.1376567	0.5066458	6	31.2	18.8	31.2	18.8	0.5	0.21383	107.3	102.2	0.921	2.01	1.31	141.02	0.341	0.102	1.89	1.89											
52.230	14.8697	0.1389898	0.5057034	6	30.8	19.4	30.8	19.4	0.5	0.21403	105.1	100.1	0.949	2.03	1.34	140.44	0.338	0.102	1.87	1.87											
52.250	14.1247	0.1141642	0.5307641	6	28.8	18.7	28.8	18.7	0.5	0.21423	100.1	95.1	0.820	2.01	1.31	131.24	0.290	0.102	1.61	1.61											
52.270	13.7481	0.1127629	0.520101	6	28.2	19.3	28.2	19.3	0.5	0.21443	97.4	92.4	0.833	2.02	1.33	129.63	0.283	0.102	1.57	1.57											
52.290	13.4093	0.1174131	0.5222607	6	27.9	20.3	27.9	20.3	0.5	0.21463	95.1	90.1	0.890	2.05	1.37	130.08	0.285	0.102	1.58	1.58											
52.310	14.1062	0.121809	0.5217424	6	29.1	19.4	29.1	19.4	0.5	0.21483	99.8	94.8	0.877	2.03	1.34	133.33	0.300	0.102	1.67	1.67											
52.330	16.006	0.127228	0.4610594	6	31.9	17.0	31.9	17.0	0.5	0.21503	112.3	107.3	0.809	1.96	1.25	140.80	0.340	0.102	1.88	1.88											
52.350	18.096	0.1418543	0.3444784	6	35.3	15.4	35.3	15.4	0.5	0.21523	125.7	120.7	0.801	1.92	1.21	151.69	0.405	0.102	2.24	2.24											
52.370	20.1455	0.1364849	0.3347744	6	37.7	13.0	37.7	13.0	0.5	0.21543	139.5	134.5	0.691	1.84	1.14	158.99	0.454	0.102	2.52	2.52											
52.390	21.1267	0.1308923	0.3563708	6	38.6	11.9	38.6	11.9	0.5	0.21563	146.3	141.3	0.631	1.80	1.11	162.23	0.477	0.102	2.65	2.65											
52.410	21.9868	0.128623	0.4207572	6	39.6	11.1	39.6	11.1	0.5	0.21583	152.5	147.5	0.594	1.77	1.09	165.85	0.504	0.102	2.80	2.80											
52.430	21.8033	0.1318099	0.4660234	6	39.7	11.3	39.7	11.3	0.5	0.21603	151.5	146.5	0.612	1.78	1.09	165.83	0.504	0.102	2.80	2.80											
52.450	18.8169	0.1315371	0.4563404	6	35.9	14.0	35.9	14.0	0.5	0.21623	131.1	126.0	0.710	1.87	1.16	162.66	0.411	0.102	2.28	2.28											
52.470	14.938	0.1251075	0.4167546	6	30.3	18.6	30.3	18.6	0.5	0.21643	104.4	99.3	0.856	2.00	1.31	136.36	0.316	0.102	1.75	1.75											

CPT Verileri		Pa(MPa) 0.1										C Bölgesi					
Derinlik m	qc	fs	u	zone No.	Nc	Fc	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
52.490	12.2055	0.1341722	0.4183672	5	26.6	24.8	0.5	0.21663	85.8	80.7	1.129	2.15	1.55	132.89	0.298	106	2.54
52.530	15.2242	0.195424	0.5866182	5	33.6	22.8	0.5	0.21703	107.3	102.3	1.297	2.10	1.46	156.99	0.440	0.102	1.65
52.550	17.9538	0.209393	0.6861636	6	38.4	19.1	0.5	0.21723	126.5	121.4	1.170	2.02	1.33	167.58	0.518	0.102	2.44
52.570	22.0719	0.2260219	0.2486188	6	44.3	15.7	0.5	0.21743	151.4	146.3	1.047	1.93	1.21	183.78	0.657	0.102	2.87
52.590	23.9781	0.2150414	0.1543717	6	46.4	13.6	0.5	0.21763	163.6	158.5	0.919	1.86	1.16	189.08	0.709	0.102	3.65
52.610	25.5022	0.2023434	0.1747012	6	47.9	12.0	0.5	0.21783	174.0	168.9	0.812	1.81	1.11	193.49	0.754	0.102	3.93
52.630	25.781	0.1954984	0.3459469	6	48.1	11.5	0.5	0.21803	176.9	171.9	0.770	1.79	1.10	194.24	0.762	0.102	4.00
52.650	25.769	0.171795	0.3277483	6	46.8	10.6	0.5	0.21823	176.7	171.6	0.678	1.75	1.07	189.85	0.716	0.102	3.98
52.670	26.285	0.1471678	0.4156332	6	46.0	9.3	0.5	0.21843	180.7	175.6	0.567	1.70	1.04	187.65	0.695	0.102	3.86
52.690	26.9783	0.1471678	0.4156332	6	46.9	9.0	0.5	0.21863	185.3	180.2	0.552	1.69	1.03	190.47	0.723	0.102	4.00
52.710	27.5552	0.1404468	0.5243627	6	47.2	8.4	0.5	0.21883	189.8	184.8	0.514	1.66	1.01	191.68	0.735	0.102	4.00
52.730	27.8848	0.1401678	0.5278182	6	47.5	8.2	0.5	0.21903	192.0	186.9	0.507	1.65	1.00	192.85	0.747	0.102	4.00
52.750	27.8648	0.1456364	0.5605296	6	48.0	8.4	0.5	0.21923	192.1	187.1	0.526	1.66	1.01	194.20	0.761	0.102	4.00
52.770	27.9865	0.1558977	0.5676997	6	48.8	8.7	0.5	0.21943	192.8	187.8	0.560	1.68	1.02	196.89	0.790	0.102	4.00
52.790	28.4627	0.1653468	0.56076	6	50.0	8.9	0.5	0.21963	195.8	190.8	0.585	1.68	1.02	200.68	0.832	0.102	4.00
52.810	28.6344	0.1689615	0.6382194	6	50.5	8.9	0.5	0.21983	197.4	192.4	0.592	1.68	1.03	202.38	0.851	0.102	4.00
52.830	27.5525	0.2002911	0.5767414	6	51.0	10.5	0.5	0.22003	189.6	184.6	0.731	1.75	1.07	203.35	0.862	0.102	4.00
52.850	32.1478	0.2620016	0.6467428	6	60.2	10.0	0.5	0.22023	221.0	215.9	0.818	1.73	1.06	233.74	1.268	0.102	4.00
52.980	11.1393	0.01214	0.5325118	6	18.6	11.7	0.5	0.22153	78.4	73.4	0.111	1.80	1.10	86.61	0.140	0.102	0.78
53.000	11.2644	0.05011	0.3580122	6	21.6	17.8	0.5	0.22173	78.3	73.2	0.460	1.99	1.28	100.26	0.174	0.101	0.97
53.020	11.7791	0.0872057	0.3299943	5	24.2	21.6	0.5	0.22193	81.3	76.2	0.768	2.08	1.42	115.27	0.222	0.101	1.24
53.040	12.3172	0.1046097	0.1876015	5	25.5	22.6	0.5	0.22213	83.9	78.9	0.890	2.10	1.46	122.34	0.250	0.101	1.39
53.060	13.1696	0.1490155	0.0670355	5	28.3	25.1	0.5	0.22233	88.9	83.9	1.192	2.15	1.56	138.75	0.328	0.101	1.83
53.080	13.7905	0.1745107	0.038125	5	30.0	25.8	0.5	0.22253	92.7	87.7	1.335	2.17	1.59	147.71	0.380	0.101	2.11
53.100	13.677	0.1835444	0.1115531	5	30.2	26.6	0.5	0.22273	92.4	87.3	1.408	2.18	1.63	150.57	0.397	0.101	2.21
53.120	14.3813	0.1640882	0.2244595	5	30.9	23.4	0.5	0.22293	97.8	92.8	1.185	2.12	1.49	145.53	0.367	0.101	2.04
53.140	15.6589	0.1668659	0.2033625	5	32.9	21.2	0.5	0.22313	106.2	101.1	1.105	2.07	1.40	148.90	0.387	0.101	2.15
53.160	16.2294	0.1798429	0.1735494	5	34.2	21.2	0.5	0.22333	109.8	104.7	1.149	2.07	1.40	153.71	0.418	0.101	2.33
53.180	19.9376	0.1971104	0.1766593	6	40.3	17.0	0.5	0.22353	134.5	129.5	1.018	1.96	1.26	168.88	0.528	0.101	2.94
53.200	25.9156	0.1760731	0.5184021	6	47.8	10.8	0.5	0.22373	176.7	171.7	0.686	1.76	1.08	190.81	0.726	0.101	4.00
53.220	35.3464	0.1878473	0.6777266	6	59.6	6.9	0.5	0.22393	240.7	235.7	0.533	1.59	1.00	240.73	1.377	0.101	4.00
53.240	42.9863	0.2549334	0.4923423	6	72.5	6.3	0.5	0.22413	290.5	285.4	0.597	1.55	1.00	290.49	2.360	0.101	4.00
53.260	42.0981	0.3746405	0.4706019	6	78.7	8.8	0.5	0.22433	284.2	279.2	0.895	1.68	1.02	290.58	2.362	0.101	4.00
53.280	32.1681	0.4359419	0.0694831	6	66.9	14.8	0.5	0.22453	215.1	210.1	1.385	1.90	1.19	255.47	1.631	0.101	4.00
53.300	26.1299	0.4800811	0.0033691	5	58.4	20.9	0.5	0.22473	174.3	169.3	1.892	2.06	1.39	242.13	1.400	0.101	4.00
53.320	25.6231	0.4965674	0.0101635	5	58.0	21.9	0.5	0.22493	170.9	165.9	1.996	2.08	1.43	243.97	1.430	0.101	4.00
53.340	20.5792	0.4513494	0.0839559	5	48.3	27.0	0.5	0.22513	137.7	132.7	2.268	2.19	1.65	226.76	1.164	0.101	4.00

CPT Verileri										Pa(MPa)										0.1										C Bölgesi									
Derinlik m	qc	fs	u	Boşluk zone No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı																						
53.360	19.105	0.4248622	0.158691	5	45.3	28.4	0.5	0.22533	123.3	123.3	2.296	2.22	1.71	219.67	1.066	106	2.54																						
53.380	19.465	0.4558213	0.0793311	5	46.4	29.1	0.5	0.22553	130.1	125.1	2.425	2.23	1.75	227.14	1.070	0.101	4.00																						
53.400	23.1261	0.4424397	0.4412594	5	53.2	22.7	0.5	0.22573	156.9	151.8	1.940	2.10	1.46	228.95	1.196	0.101	4.00																						
53.420	25.0063	0.3965955	0.3265389	6	55.0	19.3	0.5	0.22593	168.6	163.5	1.614	2.02	1.33	224.45	1.132	0.101	4.00																						
53.440	25.1523	0.2796794	0.3230547	6	51.4	15.3	0.5	0.22613	169.4	164.4	1.132	1.92	1.20	204.03	0.870	0.101	4.00																						
53.460	25.6121	0.2570043	0.3148768	6	51.2	14.2	0.5	0.22633	172.3	167.3	1.021	1.88	1.17	201.89	0.845	0.101	4.00																						
53.480	25.9366	0.1914434	0.3459469	6	48.6	11.6	0.5	0.22653	174.6	169.6	0.750	1.79	1.10	192.23	0.741	0.101	4.00																						
53.500	24.244	0.1649934	0.6208646	6	45.4	11.5	0.5	0.22673	165.1	160.1	0.685	1.79	1.10	181.33	0.634	0.101	3.54																						
53.520	24.9973	0.1448614	0.5789299	6	45.1	10.2	0.5	0.22693	169.8	164.7	0.584	1.74	1.06	180.57	0.628	0.101	3.50																						
53.540	24.8616	0.1219826	0.5783252	6	43.2	9.4	0.5	0.22713	167.6	162.5	0.498	1.70	1.04	174.51	0.574	0.101	3.21																						
53.560	24.9954	0.1012678	0.5903328	6	42.1	8.3	0.5	0.22733	169.7	164.6	0.498	1.66	1.01	170.90	0.544	0.101	3.04																						
53.580	25.7568	0.0836034	0.5488387	6	41.4	7.2	0.5	0.22753	174.4	169.3	0.327	1.60	1.00	174.41	0.573	0.101	3.20																						
53.600	26.0949	0.0785317	0.5544425	6	41.3	6.8	0.5	0.22773	176.6	171.5	0.303	1.58	1.00	176.59	0.592	0.101	3.51																						
53.620	26.7706	0.0842979	0.5540795	6	42.5	6.8	0.5	0.22793	181.0	175.9	0.317	1.58	1.00	180.99	0.631	0.101	3.63																						
53.640	27.0124	0.1040899	0.5602129	6	44.5	7.5	0.5	0.22813	182.6	177.5	0.388	1.62	1.00	182.55	0.646	0.101	3.61																						
53.660	27.7962	0.1068356	0.5678149	6	45.6	7.3	0.5	0.22833	187.7	182.6	0.387	1.61	1.00	187.71	0.695	0.101	3.89																						
53.680	28.7581	0.1124901	0.5704064	6	47.0	7.1	0.5	0.22853	194.0	188.9	0.394	1.60	1.00	194.01	0.759	0.101	4.00																						
53.700	29.479	0.1154724	0.5798513	6	48.1	7.0	0.5	0.22873	198.8	193.7	0.394	1.59	1.00	198.75	0.810	0.101	4.00																						
53.720	29.6387	0.1209286	0.5996625	6	48.7	7.1	0.5	0.22893	199.9	194.8	0.410	1.60	1.00	199.85	0.822	0.101	4.00																						
53.740	29.9009	0.1205442	0.594105	6	49.0	7.0	0.5	0.22913	201.5	196.4	0.405	1.59	1.00	201.46	0.840	0.101	4.00																						
53.760	27.3464	0.1059371	0.6437193	6	45.1	7.4	0.5	0.22953	184.8	179.7	0.387	1.61	1.00	184.77	0.667	0.101	3.73																						
53.800	28.8411	0.1111447	0.6073796	6	47.1	7.1	0.5	0.22973	194.3	189.2	0.388	1.59	1.00	194.29	0.762	0.101	4.00																						
53.820	28.9152	0.1105371	0.581723	6	47.2	7.0	0.5	0.22993	194.5	189.4	0.385	1.59	1.00	194.51	0.764	0.101	4.00																						
53.840	29.3904	0.1001332	0.5563968	6	46.7	6.5	0.5	0.23013	197.4	192.4	0.343	1.56	1.00	197.42	0.796	0.101	4.00																						
53.860	30.4594	0.1012554	0.553734	6	47.9	6.2	0.5	0.23033	204.3	199.3	0.335	1.54	1.00	204.35	0.874	0.101	4.00																						
53.880	30.7669	0.0976283	0.5524958	6	47.9	6.0	0.5	0.23053	206.4	201.4	0.319	1.53	1.00	206.42	0.898	0.101	4.00																						
53.900	30.6099	0.1023776	0.5457001	6	48.2	6.2	0.5	0.23073	205.1	200.0	0.337	1.54	1.00	205.11	0.882	0.101	4.00																						
53.920	30.416	0.1182749	0.5613935	6	49.4	6.8	0.5	0.23093	203.8	198.8	0.392	1.58	1.00	203.85	0.868	0.101	4.00																						
53.940	30.5266	0.1292121	0.5698537	6	50.5	7.1	0.5	0.23113	204.5	199.4	0.426	1.60	1.00	204.49	0.875	0.101	4.00																						
53.960	31.9752	0.1406328	0.5525245	6	52.4	7.2	0.5	0.23133	210.7	205.6	0.450	1.60	1.00	210.67	0.950	0.101	4.00																						
53.980	31.9752	0.1441173	0.5667206	6	53.2	7.1	0.5	0.23153	213.9	208.8	0.454	1.60	1.00	213.86	0.990	0.101	4.00																						
54.000	33.1512	0.1452458	0.5724221	6	54.6	6.7	0.5	0.23173	221.5	216.5	0.441	1.58	1.00	221.54	1.091	0.101	4.00																						
54.020	33.598	0.1330552	0.5730556	6	54.0	6.2	0.5	0.23193	224.4	219.3	0.398	1.55	1.00	224.38	1.131	0.101	4.00																						
54.060	31.2016	0.0992899	0.5577941	6	48.6	5.9	0.5	0.23233	208.4	203.3	0.320	1.53	1.00	208.36	0.921	0.101	4.00																						
54.080	30.1187	0.0929409	0.5323678	6	46.9	6.1	0.5	0.23253	201.0	195.9	0.311	1.54	1.00	201.00	0.835	0.101	4.00																						
54.100	28.0048	0.0857673	0.4713218	6	44.1	6.6	0.5	0.23273	186.7	181.6	0.310	1.57	1.00	186.66	0.685	0.101	3.84																						
54.120	25.961	0.0963076	0.4530367	6	42.3	8.1	0.5	0.23293	169.4	164.3	0.384	1.65	1.00	169.65	0.534	0.101	3.00																						

CPT Verileri		Pa(MPa)										0.1										C Bölgesi									
Derinlik m	qc	fs	u	Boşluk zone No.	Nc	Fc	n	σ'_{v0} [MPa]	qc1N	Q	F	lc	Kc	(qc1N)/cs	CRR	Oturma [m]	FL	Güvenlik Katsayısı													
Dirençli	Konu Uç	Sürtünme	Suyu Basıncı																												
		Katsayısı																													
54.140	23.9883	0.1016708	0.4451756	6	41.2	9.2	0.5	0.23313	160.0	155.0	0.430	1.69	1.03	165.45	0.501	106	2.54	2.81													
54.160	21.7506	0.1108177	0.3948702	6	39.1	11.1	0.5	0.23333	145.0	139.9	0.518	1.77	1.09	157.75	0.445	0.101	2.50	2.22													
54.180	19.9302	0.1130482	0.3546599	6	37.0	12.8	0.5	0.23353	132.7	127.7	0.579	1.83	1.13	150.28	0.396	0.101	2.13	2.13													
54.200	19.0708	0.1170287	0.378716	6	36.2	13.8	0.5	0.23373	127.2	122.1	0.627	1.87	1.16	147.65	0.379	0.101	2.40	2.40													
54.220	19.176	0.147608	0.481832	6	38.0	15.4	0.5	0.23393	128.5	123.5	0.782	1.92	1.21	155.15	0.427	0.101	2.74	2.74													
54.240	19.927	0.1795925	0.274045	6	40.1	16.7	0.5	0.23413	131.4	126.3	0.929	1.96	1.25	163.71	0.488	0.101	2.43	2.43													
54.260	19.141	0.1552901	0.247179	6	38.0	16.2	0.5	0.23433	126.7	121.6	0.834	1.94	1.23	155.80	0.432	0.101	2.16	2.16													
54.280	18.8662	0.128623	0.1629815	6	36.3	15.0	0.5	0.23453	124.4	119.3	0.704	1.91	1.19	148.53	0.385	0.101	2.22	2.22													
54.300	19.5554	0.1253617	0.1268434	6	37.0	14.1	0.5	0.23473	128.5	123.4	0.663	1.88	1.17	150.28	0.396	0.101	2.53	2.53													
54.320	21.1617	0.119732	0.752652	6	39.5	11.8	0.5	0.23493	143.0	137.9	0.566	1.80	1.11	158.37	0.449	0.101	2.64	2.64													
54.340	22.7664	0.1040703	0.5650217	6	40.2	10.0	0.5	0.23513	152.3	147.2	0.461	1.73	1.06	161.17	0.469	0.101	2.86	2.86													
54.360	24.1129	0.1054405	0.4222545	6	41.7	9.4	0.5	0.23533	159.9	154.9	0.444	1.70	1.04	166.34	0.508	0.101	3.24	3.24													
54.380	26.1835	0.1096939	0.2275982	6	44.1	8.6	0.5	0.23553	172.1	167.0	0.428	1.67	1.02	174.73	0.576	0.101	3.46	3.46													
54.400	27.0974	0.1157514	0.1085883	6	45.5	8.4	0.5	0.23573	177.2	172.1	0.438	1.66	1.01	179.19	0.615	0.101	3.79	3.79													
54.420	28.386	0.1169357	0.1149221	6	47.0	7.9	0.5	0.23593	185.6	180.5	0.422	1.64	1.00	185.55	0.674	0.101	4.00	4.00													
54.440	29.0849	0.1088212	0.1606779	6	47.2	7.3	0.5	0.23613	190.3	185.2	0.382	1.60	1.00	190.32	0.721	0.101	3.77	3.77													
54.460	28.2633	0.0964068	0.2049363	6	45.3	7.1	0.5	0.23633	185.2	180.1	0.348	1.59	1.00	185.18	0.671	0.101	3.18	3.18													
54.480	26.4521	0.0785813	0.2331845	6	41.9	7.1	0.5	0.23653	173.5	168.4	0.303	1.59	1.00	173.51	0.566	0.101	2.69	2.69													
54.500	24.3862	0.0730197	0.2214648	6	39.2	7.8	0.5	0.23673	169.9	164.9	0.306	1.63	1.00	159.94	0.460	0.101	2.30	2.30													
54.520	22.491	0.0786185	0.2141796	6	37.6	9.1	0.5	0.23693	147.5	142.4	0.359	1.69	1.03	152.24	0.408	0.101	2.09	2.09													
54.540	20.677	0.0853891	0.2239988	6	36.1	10.7	0.5	0.23713	135.7	130.6	0.424	1.76	1.08	146.30	0.371	0.101	1.97	1.97													
54.560	19.5764	0.0961588	0.2825684	6	35.6	12.3	0.5	0.23733	128.9	123.8	0.504	1.82	1.12	144.25	0.359	0.101	2.62	2.62													
54.580	16.7482	0.1323742	0.472416	6	34.1	17.7	0.5	0.23753	111.7	106.7	0.805	1.98	1.28	142.57	0.349	0.101	3.16	3.16													
54.600	21.4072	0.1304087	0.6349655	6	40.4	12.4	0.5	0.23773	143.0	137.9	0.613	1.82	1.12	160.61	0.465	0.101	3.50	3.50													
54.620	23.6366	0.1480793	0.5027662	6	44.1	11.7	0.5	0.23793	156.5	151.4	0.634	1.80	1.10	172.85	0.560	0.101	3.46	3.46													
54.640	25.013	0.1570571	0.3806590	6	46.3	11.3	0.5	0.23813	164.6	159.5	0.638	1.78	1.09	179.79	0.621	0.101	3.31	3.31													
54.660	25.5521	0.1428649	0.295152	6	46.0	10.4	0.5	0.23833	167.4	162.3	0.570	1.75	1.07	178.99	0.613	0.101	2.74	2.74													
54.680	26.321	0.1155778	0.1939365	6	44.9	8.9	0.5	0.23853	171.7	166.6	0.449	1.68	1.03	175.99	0.587	0.101	2.46	2.46													
54.700	26.2047	0.0997177	0.212999	6	43.6	8.2	0.5	0.23873	171.0	165.9	0.389	1.65	1.00	171.72	0.551	0.101	2.36	2.36													
54.720	25.0556	0.0790277	0.2138052	6	40.6	7.8	0.5	0.23893	163.5	158.4	0.323	1.63	1.00	163.47	0.486	0.101	2.42	2.42													
54.740	23.9671	0.0738133	0.2813015	6	39.0	8.1	0.5	0.23913	156.8	151.7	0.315	1.64	1.00	156.58	0.437	0.101	2.69	2.69													
54.760	23.3606	0.0787363	0.35902	6	38.9	8.6	0.5	0.23933	153.3	148.2	0.343	1.67	1.02	155.92	0.433	0.101	2.44	2.44													
54.780	22.274	0.0872057	0.4042287	6	38.4	9.7	0.5	0.23953	146.5	141.4	0.398	1.72	1.05	153.82	0.418	0.101	2.33	2.33													
54.800	21.5143	0.0978763	0.4198645	6	38.3	10.8	0.5	0.23973	141.7	136.6	0.463	1.76	1.08	153.07	0.414	0.101	2.42	2.42													
54.820	20.3844	0.1311485	0.4188855	6	39.0	13.7	0.5	0.23993	134.3	129.2	0.655	1.86	1.16	155.30	0.428	0.101	2.69	2.69													
54.840	19.8809	0.1747897	0.3602682	6	40.2	16.7	0.5	0.24013	130.0	124.9	0.903	1.96	1.25	162.12	0.476	0.101	2.00	2.00													
54.880	14.7487	0.1558977	0.2109545	5	31.7	23.3	0.5	0.24053	96.5	91.4	1.100	2.12	1.49	143.33	0.384	0.101															

CPT Verileri		Pa(MPa)		0.1		C Bölgesi											
Derinlik m	qc	fs	u	zone No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/es	CRR	Oturma [m]	FL Güvenlik Katsayısı
54.900	12.9976	0.1854168	0.0400543	5	29.6	30.2	0.5	0.24073	84.0	78.9	1.514	2.25	1.80	151.51	0.403	106	2.54
54.920	11.9129	0.2677864	0.0750694	5	29.5	40.2	0.5	0.24093	77.2	72.1	2.391	2.41	2.35	181.61	0.637	0.101	2.28
54.940	12.5028	0.2557891	0.4266026	5	31.0	36.0	0.5	0.24113	83.3	78.2	2.107	2.35	2.11	175.63	0.584	0.101	3.30
54.960	14.1552	0.2623117	0.3333058	5	34.0	31.9	0.5	0.24133	93.3	88.2	1.915	2.28	1.89	176.08	0.588	0.101	3.32
54.980	14.6158	0.2315091	0.2716718	5	33.9	28.9	0.5	0.24153	95.8	90.7	1.642	2.23	1.74	166.49	0.509	0.101	2.88
55.000	13.3225	0.2705641	0.2163627	5	32.4	35.2	0.5	0.24173	87.1	82.0	2.122	2.33	2.06	179.64	0.619	0.101	3.50
55.020	39.9565	0.3351329	0.7737302	6	75.8	9.2	0.5	0.24193	261.9	256.8	0.839	1.70	1.04	271.08	1.933		
55.040	49.9447	0.350063	0.5086981	6	88.5	6.7	0.5	0.24213	324.2	319.1	0.705	1.58	1.00	324.24	3.250		

CPT Verileri		Pa(MPa) 0.1										D Bölgesi					
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
48.220	26.3081	0.070837	0.501787	6	36.6	4.7	0.5	0.17393	203.3	198.3	0.271	1.45	1.00	203.29	0.861	0.112	4.00
48.240	27.6485	0.116248	1.10767	6	42.5	5.7	0.5	0.17443	217.9	212.9	0.414	1.51	1.00	217.92	1.042	0.112	4.00
48.260	41.1187	0.153393	0.060499	6	56.3	3.7	0.5	0.17433	311.9	306.9	0.379	1.36	1.00	311.88	2.901	0.112	4.00
48.280	34.907	0.446724	0.147634	6	67.6	11.2	0.5	0.17453	265.3	260.4	1.299	1.78	1.09	269.39	2.334	0.112	4.00
48.300	30.9588	0.585491	0.124914	6	66.1	16.3	0.5	0.17473	235.2	230.2	1.924	1.94	1.23	269.65	2.340	0.112	4.00
48.320	23.2895	0.621762	-0.04866	5	53.8	24.7	0.5	0.17493	175.7	170.7	2.753	2.15	1.54	271.11	1.933	0.112	4.00
48.340	22.6904	0.537079	-0.07518	5	51.1	23.2	0.5	0.17513	170.9	165.9	2.450	2.11	1.48	263.22	1.590	0.112	4.00
48.360	24.4803	0.530879	-0.05863	5	54.0	20.9	0.5	0.17533	189.4	179.5	2.234	2.06	1.39	266.38	1.647	0.112	4.00
48.380	26.4816	0.495396	-0.04861	6	56.5	18.0	0.5	0.17553	194.5	194.5	1.922	1.99	1.29	266.77	1.654	0.112	4.00
48.400	30.7982	0.536416	-0.03873	6	64.4	15.5	0.5	0.17573	232.0	227.1	1.782	1.92	1.21	280.71	2.137	0.112	4.00
48.420	34.6633	0.447753	-0.01345	6	67.2	11.5	0.5	0.17593	261.2	256.3	1.317	1.79	1.10	286.82	2.274	0.112	4.00
48.440	32.5346	0.245348	-0.04947	6	55.3	8.0	0.5	0.17613	244.8	239.8	0.771	1.64	1.00	244.23	1.435	0.112	4.00
48.460	25.4498	0.159891	-0.05975	6	42.5	8.8	0.5	0.17633	191.2	186.3	0.646	1.68	1.02	195.49	0.775	0.112	3.97
48.480	26.7047	0.193167	-0.05563	6	36.5	13.5	0.5	0.17653	155.4	150.4	0.966	1.86	1.15	179.18	0.615	0.112	3.16
48.500	18.9166	0.187934	-0.06272	6	36.0	15.1	0.5	0.17673	141.8	136.8	1.033	1.91	1.20	169.93	0.536	0.112	2.75
48.520	17.7646	0.15307	0.490413	6	33.7	14.0	0.5	0.17693	137.2	132.3	0.870	1.87	1.17	159.95	0.461	0.112	2.37
48.540	18.0231	0.142319	0.13649	6	33.1	13.5	0.5	0.17713	136.4	131.5	0.813	1.86	1.15	157.20	0.441	0.112	2.27
48.560	19.2213	0.126713	0.061219	6	33.7	11.6	0.5	0.17733	144.8	139.8	0.681	1.79	1.10	159.30	0.456	0.112	2.34
48.580	18.7595	0.102018	0.10375	6	32.9	9.7	0.5	0.17753	149.1	144.1	0.531	1.72	1.05	156.65	0.438	0.112	2.25
48.600	20.4298	0.090827	0.203151	6	33.0	8.5	0.5	0.17773	155.3	150.3	0.453	1.67	1.02	157.65	0.444	0.112	2.29
48.620	20.2219	0.065989	0.287406	6	30.8	7.3	0.5	0.17793	153.8	148.8	0.333	1.60	1.00	153.75	0.418	0.112	2.15
48.640	19.3625	0.058609	0.331924	6	29.5	7.4	0.5	0.17813	147.6	142.6	0.313	1.61	1.00	147.56	0.379	0.112	1.95
48.660	16.2354	0.054481	0.365701	6	28.0	7.7	0.5	0.17833	139.3	134.3	0.304	1.63	1.00	139.29	0.331	0.112	1.71
48.680	16.7925	0.045807	0.408462	6	25.8	8.0	0.5	0.17853	128.7	123.8	0.277	1.64	1.00	128.50	0.277	0.112	1.43
48.700	16.295	0.043482	0.416179	6	25.2	8.2	0.5	0.17873	125.0	120.0	0.271	1.65	1.00	125.54	0.264	0.112	1.36
48.720	16.7141	0.054115	0.492918	6	26.6	8.7	0.5	0.17893	128.6	123.7	0.327	1.67	1.02	131.23	0.290	0.112	1.50
48.740	16.7999	0.052919	0.495308	6	26.6	8.6	0.5	0.17913	129.2	124.2	0.318	1.67	1.02	131.21	0.290	0.112	1.50
48.760	16.7907	0.050327	0.512298	6	26.4	8.4	0.5	0.17933	129.2	124.2	0.303	1.66	1.01	130.37	0.286	0.112	1.48
48.800	18.1329	0.061909	0.51296	6	28.8	8.3	0.5	0.17973	139.1	134.1	0.344	1.65	1.01	139.88	0.335	0.112	1.73
48.820	18.2991	0.045392	0.484913	6	27.4	7.1	0.5	0.17993	140.0	135.1	0.251	1.59	1.00	140.03	0.335	0.112	1.74
48.840	17.4997	0.032092	0.485144	6	25.3	6.6	0.5	0.18013	134.0	129.0	0.185	1.57	1.00	134.00	0.304	0.112	1.57
48.860	17.5003	0.037127	0.489261	6	25.7	7.1	0.5	0.18033	132.5	127.5	0.217	1.59	1.00	132.47	0.296	0.112	1.54
48.880	16.5451	0.040084	0.472618	6	25.2	7.8	0.5	0.18053	126.7	121.7	0.245	1.63	1.00	126.66	0.269	0.112	1.39
48.900	15.4872	0.036172	0.455283	6	23.8	8.3	0.5	0.18073	118.6	113.6	0.237	1.65	1.01	119.29	0.238	0.112	1.23
48.920	14.9906	0.031764	0.449561	6	22.9	8.3	0.5	0.18093	114.8	109.8	0.215	1.65	1.01	115.43	0.223	0.112	1.16
48.940	15.0737	0.033984	0.466986	6	23.3	8.4	0.5	0.18113	115.6	110.6	0.228	1.66	1.01	116.74	0.228	0.112	1.16
48.960	15.2555	0.037288	0.503745	6	23.8	8.5	0.5	0.18133	117.0	112.0	0.247	1.67	1.02	118.79	0.236	0.111	1.23
48.980	15.6091	0.0389	0.489866	6	24.3	8.4	0.5	0.18153	119.3	114.5	0.252	1.66	1.01	120.84	0.244	0.111	1.27
49.000	16.2608	0.038832	0.49407	6	24.9	7.9	0.5	0.18173	124.3	119.3	0.241	1.64	1.00	124.29	0.259	0.111	1.35
49.020	16.4722	0.042719	0.489549	6	25.5	8.1	0.5	0.18193	125.6	120.8	0.262	1.65	1.00	125.89	0.266	0.111	1.38
49.040	17.0824	0.04404	0.487562	6	26.2	7.8	0.5	0.18213	130.2	125.2	0.261	1.63	1.00	130.19	0.285	0.111	1.49
49.080	23.1454	0.052758	0.501672	6	32.7	5.3	0.5	0.18253	175.0	170.1	0.230	1.49	1.00	175.04	0.579	0.111	3.02

CPT Verileri		Pa(MPa) 0.1										D Bölgesi					
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
49.100	27.3041	0.072412	0.510426	6	36.3	4.8	0.5	0.18273	205.8	200.8	0.267	1.45	1.00	205.76	0.890	0.111	4.00
49.120	40.539	0.090715	0.553504	7	50.1	2.7	0.5	0.18293	303.8	298.8	0.224	1.26	1.00	303.82	2.688	0.111	4.00
49.240	20.1499	0.013975	0.483264	6	26.3	4.6	0.5	0.18413	152.1	147.1	0.070	1.44	1.00	152.13	0.407	0.111	2.13
49.260	32.5189	0.020107	0.490701	7	36.6	2.4	0.5	0.18433	243.1	238.1	0.062	1.23	1.00	243.13	1.417	0.111	4.00
49.300	53.0824	0.041256	0.519064	7	50.2	1.1	0.5	0.18473	394.4	389.4	0.078	1.02	1.00	394.37	5.784	0.111	4.00
49.320	51.6875	0.118989	0.369356	7	60.7	2.0	0.5	0.18493	382.8	377.8	0.231	1.18	1.00	382.80	5.297	0.111	4.00
49.340	45.9817	0.245435	-0.06012	6	69.8	4.7	0.5	0.18513	337.5	332.5	0.542	1.44	1.00	337.50	3.655	0.111	4.00
49.360	46.4026	0.243507	0.018803	6	70.2	4.5	0.5	0.18533	341.0	336.0	0.532	1.43	1.00	340.99	3.767	0.111	4.00
49.380	40.01	0.324841	-0.05376	6	69.2	7.5	0.5	0.18553	293.3	288.4	0.827	1.61	1.00	293.34	2.428	0.111	4.00
49.400	34.7944	0.424379	-0.06421	6	67.2	11.4	0.5	0.18573	254.8	249.9	1.246	1.79	1.10	279.32	2.107	0.111	4.00
49.420	21.4377	0.568397	-0.03398	5	50.1	26.6	0.5	0.18593	157.0	152.0	2.743	2.18	1.63	255.98	1.640	0.111	4.00
49.440	18.9905	0.528492	-0.04789	5	48.0	29.5	0.5	0.18613	138.8	133.9	2.894	2.24	1.77	245.41	1.454	0.111	4.00
49.460	15.5279	0.507635	-0.03516	5	38.3	36.5	0.5	0.18633	113.5	108.5	3.427	2.35	2.14	242.44	1.405	0.111	4.00
49.480	14.41	0.347409	0.005212	5	33.8	31.9	0.5	0.18653	105.5	100.6	2.530	2.28	1.89	199.46	0.818	0.111	4.00
49.500	14.0869	0.332337	0.004895	5	32.9	32.0	0.5	0.18673	103.1	98.1	2.478	2.28	1.89	195.29	0.773	0.111	4.00
49.540	12.4372	0.223108	0.527732	5	28.7	28.4	0.5	0.18713	94.8	89.8	1.816	2.22	1.71	162.29	0.478	0.111	2.50
49.560	11.5243	0.094919	0.515983	6	23.3	19.9	0.5	0.18733	86.0	83.0	0.836	2.04	1.35	118.95	0.237	0.111	1.24
49.580	11.1107	0.050091	0.49551	6	20.4	15.5	0.5	0.18753	84.8	79.8	0.459	1.92	1.21	102.33	0.180	0.111	0.94
49.600	10.7452	0.035099	0.458623	6	18.9	14.0	0.5	0.18773	81.8	76.8	0.334	1.88	1.17	95.37	0.161	0.111	0.84
49.620	10.1377	0.029563	0.439647	6	17.8	14.2	0.5	0.18793	77.2	72.2	0.299	1.88	1.17	90.45	0.149	0.110	0.78
49.640	9.5996	0.026785	0.433859	6	16.9	14.8	0.5	0.18813	73.2	68.2	0.287	1.90	1.19	86.87	0.141	0.110	0.74
49.660	9.2497	0.026636	0.429367	6	16.5	15.5	0.5	0.18833	70.5	65.5	0.296	1.92	1.21	85.21	0.138	0.109	0.72
49.680	8.7604	0.026016	0.422514	6	15.9	16.5	0.5	0.18853	66.9	61.9	0.306	1.95	1.24	82.81	0.133	0.109	0.70
49.700	8.6598	0.027833	0.468356	6	15.9	17.0	0.5	0.18873	66.4	61.5	0.330	1.96	1.25	83.39	0.134	0.108	0.70
49.720	8.7844	0.034306	0.494675	6	16.6	18.0	0.5	0.18893	67.5	62.5	0.399	1.99	1.29	86.86	0.141	0.108	0.74
49.740	8.7392	0.0311	0.480594	6	16.3	17.5	0.5	0.18913	67.0	62.0	0.364	1.98	1.27	85.19	0.138	0.107	0.72
49.760	8.6952	0.026295	0.478463	6	16.1	16.2	0.5	0.18933	66.1	63.1	0.303	1.94	1.23	83.69	0.135	0.107	0.71
49.780	9.5036	0.024466	0.499052	6	16.7	14.5	0.5	0.18953	72.7	67.7	0.263	1.89	1.18	85.70	0.139	0.106	0.73
49.820	11.1163	0.023176	0.497238	6	18.5	11.7	0.5	0.18993	84.3	79.3	0.212	1.80	1.10	92.98	0.155	0.105	0.81
49.840	12.7363	0.025563	0.498274	6	20.5	10.1	0.5	0.19013	96.0	91.0	0.204	1.73	1.06	101.77	0.178	0.105	0.94
49.860	14.0407	0.026698	0.498994	6	22.0	9.0	0.5	0.19033	105.4	100.4	0.193	1.69	1.03	108.34	0.198	0.105	1.04
49.880	14.0952	0.028509	0.497842	6	22.2	9.1	0.5	0.19053	105.7	100.7	0.205	1.69	1.03	109.19	0.201	0.104	1.06
49.900	14.289	0.051369	0.501701	6	24.4	11.3	0.5	0.19073	107.1	102.1	0.364	1.78	1.09	117.11	0.229	0.104	1.21
49.920	14.673	0.062678	0.504177	6	25.6	12.0	0.5	0.19093	109.8	104.8	0.433	1.81	1.11	122.02	0.249	0.104	1.31
49.940	17.0122	0.07341	0.503774	6	29.1	10.5	0.5	0.19113	126.7	121.7	0.436	1.75	1.07	135.85	0.313	0.104	1.65
50.000	19.2896	0.339207	0.054222	5	42.1	22.3	0.5	0.19173	139.7	134.7	1.819	2.09	1.44	201.78	0.844	0.104	4.00
50.020	17.0169	0.249893	-0.01322	5	36.1	21.9	0.5	0.19193	122.7	117.7	1.532	2.09	1.43	175.35	0.581	0.104	3.06
50.040	15.1235	0.255033	0.073428	5	33.3	25.6	0.5	0.19213	109.6	104.6	1.758	2.16	1.58	173.47	0.565	0.104	2.98
50.060	14.9566	0.268934	0.104268	5	33.5	26.7	0.5	0.19233	108.7	103.7	1.870	2.19	1.63	177.22	0.598	0.104	3.15
50.100	15.4605	0.199727	0.278105	5	32.7	21.3	0.5	0.19253	113.4	108.4	1.328	2.07	1.41	159.39	0.457	0.104	2.41
50.120	16.3393	0.188424	0.272778	6	33.6	19.2	0.5	0.19293	119.6	114.6	1.184	2.02	1.33	158.94	0.453	0.104	2.39
50.140	16.2322	0.168453	0.125893	6	32.5	18.4	0.5	0.19313	117.7	112.7	1.075	2.00	1.30	153.14	0.414	0.104	2.18

CPT Verileri										Pa (MPa) 0.1										D Bölgesi									
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı												
50.160	16.8018	0.158248	0.101504	6	32.9	17.0	0.5	0.19333	121.6	116.6	0.976	1.96	1.26	152.57	0.410	0.104	2.17												
50.180	17.688	0.151452	0.107608	6	33.8	15.5	0.5	0.19353	127.9	122.9	0.886	1.92	1.21	154.49	0.423	0.104	2.23												
50.200	19.6807	0.118821	0.168871	6	34.8	11.5	0.5	0.19373	142.5	137.5	0.621	1.79	1.10	156.61	0.437	0.104	2.31												
50.220	20.9438	0.095303	0.194944	6	34.8	9.2	0.5	0.19393	151.8	146.8	0.466	1.70	1.04	157.35	0.442	0.104	2.34												
50.240	21.2983	0.080981	0.219593	6	34.1	8.2	0.5	0.19413	154.4	149.4	0.389	1.65	1.00	155.15	0.427	0.104	2.26												
50.260	20.9595	0.072288	0.187314	6	33.0	8.0	0.5	0.19433	151.7	146.7	0.353	1.64	1.00	151.70	0.405	0.104	2.14												
50.280	20.4232	0.062058	0.197507	6	31.6	7.7	0.5	0.19453	147.8	142.8	0.311	1.62	1.00	147.85	0.381	0.104	2.01												
50.300	19.561	0.058077	0.249454	6	30.5	7.9	0.5	0.19473	142.0	137.0	0.304	1.64	1.00	141.96	0.346	0.104	1.83												
50.320	19.104	0.057383	0.277155	6	30.0	8.2	0.5	0.19493	138.8	133.8	0.307	1.65	1.00	139.08	0.330	0.104	1.75												
50.340	17.6931	0.0735	0.330455	6	30.0	10.4	0.5	0.19513	129.1	124.1	0.436	1.75	1.07	138.07	0.325	0.104	1.72												
50.360	13.3114	0.066655	0.484136	6	24.5	14.4	0.5	0.19553	96.7	93.7	0.509	1.89	1.16	116.13	0.226	0.104	1.19												
50.400	12.6597	0.066336	0.472531	6	23.6	15.4	0.5	0.19573	93.9	88.9	0.534	1.92	1.21	113.17	0.215	0.104	1.14												
50.420	12.0135	0.065363	0.480293	6	22.7	16.4	0.5	0.19593	89.1	84.1	0.555	1.95	1.24	110.18	0.204	0.104	1.08												
50.440	11.6887	0.066326	0.467233	6	22.4	17.2	0.5	0.19613	86.8	81.8	0.583	1.97	1.26	109.42	0.202	0.104	1.07												
50.460	11.7071	0.071426	0.487418	6	22.7	17.7	0.5	0.19633	87.0	82.0	0.621	1.98	1.28	111.08	0.207	0.104	1.10												
50.480	11.8686	0.064054	0.500405	6	22.6	16.5	0.5	0.19653	86.2	83.2	0.549	1.95	1.24	109.30	0.201	0.104	1.07												
50.500	11.7901	0.062355	0.505675	6	22.4	16.4	0.5	0.19673	87.7	82.7	0.538	1.95	1.24	108.44	0.199	0.103	1.05												
50.520	12.0846	0.059776	0.504206	6	22.6	15.6	0.5	0.19693	86.7	84.7	0.503	1.92	1.21	108.77	0.200	0.103	1.06												
50.540	13.6557	0.06447	0.537781	6	24.9	13.7	0.5	0.19713	101.1	96.1	0.478	1.87	1.16	117.09	0.229	0.103	1.21												
50.560	14.8143	0.082053	0.508785	6	27.3	13.9	0.5	0.19733	109.1	104.1	0.561	1.87	1.16	126.81	0.270	0.103	1.43												
50.580	16.9476	0.07744	0.511894	6	29.6	11.2	0.5	0.19753	124.2	119.2	0.462	1.78	1.09	135.47	0.311	0.103	1.65												
50.600	17.8403	0.072566	0.515465	6	30.3	10.1	0.5	0.19773	130.5	125.5	0.411	1.73	1.06	138.40	0.327	0.103	1.73												
50.620	20.1878	0.069306	0.515263	6	32.5	8.2	0.5	0.19793	147.2	142.2	0.347	1.65	1.00	147.72	0.360	0.103	2.01												
50.640	22.227	0.064538	0.54115	6	34.2	6.8	0.5	0.19813	161.8	156.7	0.293	1.58	1.00	161.75	0.474	0.103	2.51												
50.660	23.2332	0.06257	0.517308	6	34.9	6.3	0.5	0.19833	168.6	163.6	0.271	1.55	1.00	168.65	0.526	0.103	2.79												
50.680	23.6523	0.061611	0.50746	6	35.2	6.1	0.5	0.19853	171.5	166.5	0.263	1.54	1.00	171.47	0.549	0.103	2.91												
50.700	24.7056	0.067074	0.513939	6	36.8	5.9	0.5	0.19873	178.9	173.9	0.274	1.53	1.00	178.90	0.612	0.103	3.25												
50.720	25.4028	0.074173	0.518114	6	38.2	5.9	0.5	0.19893	184.3	179.3	0.293	1.53	1.00	184.35	0.663	0.103	3.52												
50.740	25.7275	0.079958	0.51774	6	39.0	6.1	0.5	0.19913	186.0	181.0	0.313	1.54	1.00	185.99	0.678	0.103	3.60												
50.760	25.8779	0.090804	0.52946	6	40.1	6.5	0.5	0.19933	187.0	182.0	0.353	1.56	1.00	187.04	0.689	0.103	3.66												
50.780	26.549	0.08309	0.514342	6	41.0	6.3	0.5	0.19953	191.6	186.6	0.353	1.55	1.00	191.59	0.734	0.103	3.90												
50.800	26.339	0.101466	0.533347	6	43.5	6.0	0.5	0.19973	204.3	199.3	0.360	1.53	1.00	204.30	0.873	0.103	4.00												
50.820	29.3941	0.104864	0.537052	6	44.8	5.8	0.5	0.19993	211.7	206.7	0.359	1.52	1.00	211.68	0.962	0.103	4.00												
50.840	29.743	0.102843	0.524478	6	44.9	5.6	0.5	0.20013	214.0	208.9	0.348	1.51	1.00	213.95	0.991	0.103	4.00												
50.860	30.5323	0.103388	0.538962	6	45.7	5.4	0.5	0.20033	219.5	214.5	0.341	1.49	1.00	219.53	1.064	0.103	4.00												
50.880	30.9431	0.103649	0.549127	6	46.1	5.3	0.5	0.20053	222.4	217.4	0.337	1.49	1.00	222.39	1.103	0.103	4.00												
50.920	30.3043	0.086257	0.560616	6	43.9	4.9	0.5	0.20093	217.7	212.7	0.286	1.46	1.00	217.74	1.040	0.103	4.00												
50.940	31.3114	0.092011	0.51607	6	45.3	4.8	0.5	0.20113	224.4	219.4	0.296	1.45	1.00	224.42	1.131	0.103	4.00												
50.960	31.2856	0.100034	0.515062	6	46.1	5.1	0.5	0.20133	224.1	219.1	0.322	1.47	1.00	224.12	1.127	0.103	4.00												
50.980	31.077	0.102628	0.517078	6	46.2	5.2	0.5	0.20153	222.6	217.5	0.332	1.48	1.00	222.55	1.105	0.103	4.00												
51.000	30.8212	0.103022	0.50723	6	46.0	5.3	0.5	0.20173	220.6	215.6	0.336	1.49	1.00	220.57	1.078	0.103	4.00												
51.020	30.1821	0.101516	0.508122	6	45.3	5.5	0.5	0.20193	215.8	210.8	0.339	1.50	1.00	215.83	1.015	0.103	4.00												

CPT Verileri		Pa(MPa)										0.1										D Bölgesi									
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL	Güvenlik Katsayısı													
51.040	30.1732	0.099829	0.509879	6	45.2	5.4	0.5	0.20213	215.8	210.8	0.333	1.50	1.00	215.82	1.015	0.103	4.00														
51.060	30.7934	0.09524	0.522635	6	45.7	5.2	0.5	0.20233	220.1	215.1	0.324	1.48	1.00	220.09	1.071	0.103	4.00														
51.080	31.0559	0.103245	0.523787	6	46.4	5.3	0.5	0.20253	222.0	217.0	0.334	1.49	1.00	221.97	1.097	0.103	4.00														
51.100	31.2819	0.104349	0.5144	6	46.7	5.3	0.5	0.20273	223.3	218.3	0.336	1.49	1.00	223.31	1.116	0.103	4.00														
51.120	31.4794	0.104368	0.512816	6	46.9	5.2	0.5	0.20293	224.6	219.6	0.334	1.48	1.00	224.58	1.133	0.103	4.00														
51.140	31.4997	0.104356	0.506999	6	46.9	5.2	0.5	0.20313	224.6	219.6	0.333	1.48	1.00	224.57	1.133	0.103	4.00														
51.160	31.7941	0.105205	0.521866	6	47.3	5.2	0.5	0.20333	226.6	221.5	0.333	1.48	1.00	226.56	1.162	0.103	4.00														
51.200	31.5136	0.084788	0.531113	6	45.0	4.6	0.5	0.20373	224.5	219.5	0.271	1.44	1.00	224.51	1.132	0.103	4.00														
51.220	31.7684	0.088929	0.523816	6	45.7	4.7	0.5	0.20393	226.1	221.1	0.282	1.44	1.00	226.13	1.155	0.103	4.00														
51.240	31.8598	0.09544	0.514227	6	46.4	4.9	0.5	0.20413	226.6	221.6	0.301	1.46	1.00	226.59	1.162	0.103	4.00														
51.260	32.4506	0.102991	0.523067	6	47.7	4.9	0.5	0.20433	230.7	225.7	0.319	1.46	1.00	230.68	1.222	0.103	4.00														
51.280	32.2244	0.102768	0.511405	6	47.5	5.0	0.5	0.20453	228.9	223.9	0.321	1.47	1.00	228.90	1.195	0.103	4.00														
51.300	31.6568	0.101703	0.496431	6	46.9	5.1	0.5	0.20473	224.8	219.8	0.323	1.48	1.00	224.79	1.136	0.103	4.00														
51.320	31.5939	0.102725	0.513392	6	47.0	5.2	0.5	0.20493	224.3	219.3	0.327	1.48	1.00	224.29	1.129	0.103	4.00														
51.340	31.2745	0.112286	0.516949	6	47.6	5.6	0.5	0.20513	222.0	217.0	0.361	1.51	1.00	221.98	1.097	0.103	4.00														
51.360	31.1553	0.119056	0.519199	6	48.1	5.8	0.5	0.20533	221.1	216.0	0.385	1.52	1.00	221.06	1.085	0.103	4.00														
51.380	31.052	0.123254	0.518546	6	48.4	6.0	0.5	0.20553	220.2	215.2	0.400	1.53	1.00	220.21	1.073	0.103	4.00														
51.400	30.8083	0.124357	0.514544	6	48.3	6.1	0.5	0.20573	218.4	213.4	0.406	1.54	1.00	218.38	1.049	0.103	4.00														
51.420	30.332	0.120774	0.507489	6	47.5	6.2	0.5	0.20593	214.9	209.9	0.401	1.54	1.00	214.91	1.003	0.103	4.00														
51.440	30.2083	0.118945	0.531101	6	47.3	6.2	0.5	0.20613	214.1	209.1	0.396	1.54	1.00	214.10	0.993	0.103	4.00														
51.480	29.2215	0.102843	0.515638	6	45.0	6.0	0.5	0.20653	206.9	201.9	0.354	1.53	1.00	206.92	0.904	0.103	4.00														
51.500	29.0747	0.103984	0.508928	6	44.9	6.1	0.5	0.20673	205.8	200.7	0.360	1.54	1.00	205.75	0.890	0.103	4.00														
51.520	28.2725	0.105541	0.501787	6	44.3	6.4	0.5	0.20693	200.0	195.0	0.376	1.56	1.00	200.03	0.824	0.103	4.00														
51.540	27.6134	0.106129	0.488138	6	43.7	6.7	0.5	0.20713	195.3	190.2	0.388	1.57	1.00	195.26	0.772	0.103	4.00														
51.560	27.1057	0.110512	0.503861	6	43.6	7.1	0.5	0.20733	191.7	186.7	0.411	1.59	1.00	191.75	0.736	0.103	3.94														
51.580	27.0541	0.112211	0.511578	6	43.7	7.2	0.5	0.20753	191.4	186.4	0.418	1.60	1.00	191.42	0.732	0.103	3.92														
51.600	26.9211	0.112199	0.518863	6	43.6	7.2	0.5	0.20773	190.4	185.4	0.420	1.60	1.00	190.39	0.722	0.103	3.86														
51.620	26.9423	0.11324	0.523902	6	43.7	7.3	0.5	0.20793	190.5	185.5	0.423	1.60	1.00	190.48	0.723	0.103	3.87														
51.640	26.3404	0.105831	0.497986	6	42.5	7.2	0.5	0.20813	186.0	181.0	0.405	1.60	1.00	186.03	0.679	0.103	3.63														
51.660	25.6056	0.103853	0.49908	6	41.6	7.5	0.5	0.20833	180.9	175.8	0.409	1.62	1.00	180.86	0.630	0.103	3.38														
51.680	25.108	0.099265	0.510368	6	40.7	7.5	0.5	0.20853	177.4	172.4	0.399	1.62	1.00	177.41	0.599	0.103	3.21														
51.700	24.9123	0.099309	0.521109	6	40.6	7.6	0.5	0.20873	176.0	171.0	0.402	1.62	1.00	176.04	0.587	0.103	3.15														
51.720	23.6153	0.092377	0.531331	6	38.7	7.9	0.5	0.20893	167.1	162.0	0.394	1.64	1.00	167.05	0.514	0.103	2.75														
51.740	24.4018	0.090411	0.526465	6	39.3	7.5	0.5	0.20913	172.4	167.4	0.374	1.61	1.00	172.38	0.556	0.103	2.98														
51.760	24.9003	0.089816	0.52563	6	39.8	7.2	0.5	0.20933	175.7	170.7	0.364	1.60	1.00	175.74	0.585	0.103	3.13														
51.780	25.6351	0.097098	0.527098	6	40.7	7.0	0.5	0.20953	180.7	175.7	0.361	1.59	1.00	180.74	0.629	0.103	3.37														
51.800	26.0919	0.094807	0.529653	6	41.4	6.9	0.5	0.20973	183.7	178.7	0.366	1.59	1.00	183.75	0.657	0.103	3.52														
51.820	27.2008	0.096555	0.530842	6	42.7	6.6	0.5	0.20993	191.4	186.4	0.358	1.57	1.00	191.40	0.732	0.103	3.93														
51.840	27.7879	0.090709	0.524017	6	42.8	6.1	0.5	0.21013	195.3	190.3	0.329	1.54	1.00	195.31	0.773	0.103	4.00														
51.860	27.6245	0.093877	0.521224	6	42.9	6.3	0.5	0.21033	194.1	189.0	0.342	1.55	1.00	194.07	0.760	0.103	4.00														
51.880	27.5479	0.093995	0.519957	6	42.9	6.4	0.5	0.21053	193.4	188.4	0.344	1.55	1.00	193.44	0.753	0.103	4.00														
51.900	27.8276	0.094652	0.517769	6	43.2	6.3	0.5	0.21073	196.3	190.2	0.343	1.55	1.00	195.26	0.772	0.103	4.00														

CPT Verileri		Pa(MPa)										0.1										D Bölgesi									
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL	Güvenlik Katsayısı													
51.920	26.1654	0.096215	0.533635	6	43.7	6.2	0.5	0.21093	197.6	192.6	0.344	1.55	1.00	197.61	0.798	0.103	4.00														
51.940	26.4276	0.09707	0.526234	6	44.0	6.2	0.5	0.21113	199.3	194.2	0.344	1.54	1.00	199.27	0.816	0.103	4.00														
51.960	26.4737	0.098459	0.526666	6	44.2	6.2	0.5	0.21133	199.5	194.5	0.348	1.54	1.00	199.49	0.818	0.103	4.00														
52.000	27.8063	0.087609	0.497382	6	42.6	6.1	0.5	0.21173	194.5	189.5	0.318	1.54	1.00	194.51	0.764	0.103	4.00														
52.020	27.6402	0.088626	0.532829	6	42.6	6.2	0.5	0.21193	193.5	188.5	0.323	1.54	1.00	193.53	0.754	0.103	4.00														
52.040	27.5534	0.089667	0.510829	6	42.6	6.2	0.5	0.21213	192.7	187.7	0.329	1.55	1.00	192.69	0.745	0.103	4.00														
52.060	27.6088	0.089667	0.524363	6	42.7	6.2	0.5	0.21233	193.1	188.0	0.327	1.55	1.00	193.07	0.746	0.103	4.00														
52.080	27.6845	0.091527	0.520879	6	42.9	6.3	0.5	0.21253	193.5	188.4	0.333	1.55	1.00	193.47	0.754	0.103	4.00														
52.100	27.7445	0.094609	0.530842	6	43.3	6.4	0.5	0.21273	193.9	188.8	0.344	1.55	1.00	193.86	0.758	0.103	4.00														
52.120	27.5054	0.094838	0.527789	6	43.1	6.5	0.5	0.21293	192.1	187.1	0.347	1.56	1.00	192.11	0.739	0.103	3.98														
52.140	27.4242	0.108144	0.53136	6	44.2	7.0	0.5	0.21313	191.5	186.5	0.397	1.59	1.00	191.49	0.733	0.103	3.94														
52.160	27.2285	0.114859	0.535334	6	44.5	7.4	0.5	0.21333	190.1	185.1	0.425	1.61	1.00	190.09	0.719	0.103	3.87														
52.180	26.8527	0.112174	0.517509	6	43.9	7.4	0.5	0.21353	187.3	182.3	0.421	1.61	1.00	187.30	0.691	0.103	3.72														
52.200	26.4761	0.107313	0.522376	6	43.2	7.4	0.5	0.21373	184.7	179.6	0.409	1.61	1.00	184.67	0.666	0.103	3.58														
52.220	26.1659	0.099414	0.517394	6	42.2	7.2	0.5	0.21393	182.4	177.4	0.383	1.60	1.00	182.44	0.645	0.103	3.47														
52.240	25.8216	0.084255	0.535017	6	40.6	6.8	0.5	0.21453	179.9	174.9	0.329	1.58	1.00	179.95	0.622	0.103	3.35														
52.300	25.7035	0.082314	0.535247	6	40.3	6.7	0.5	0.21473	179.1	174.0	0.323	1.57	1.00	179.06	0.614	0.103	3.31														
52.320	26.2869	0.079214	0.524939	6	40.6	6.4	0.5	0.21493	182.9	177.9	0.304	1.55	1.00	182.88	0.649	0.103	3.50														
52.340	26.7069	0.084137	0.531878	6	41.5	6.4	0.5	0.21513	185.7	180.7	0.317	1.56	1.00	185.71	0.676	0.103	3.64														
52.360	26.8463	0.086691	0.520389	6	41.9	6.5	0.5	0.21533	186.5	181.5	0.326	1.56	1.00	186.50	0.683	0.103	3.68														
52.380	27.582	0.090888	0.531072	6	43.0	6.4	0.5	0.21553	191.5	186.5	0.332	1.55	1.00	191.49	0.733	0.103	3.95														
52.400	28.3417	0.093524	0.520475	6	44.0	6.2	0.5	0.21573	196.5	191.5	0.333	1.54	1.00	196.51	0.786	0.103	4.00														
52.420	29.4421	0.09797	0.523816	6	44.7	5.7	0.5	0.21593	203.9	198.9	0.307	1.51	1.00	203.93	0.869	0.103	4.00														
52.440	30.6772	0.092569	0.536889	6	46.1	5.4	0.5	0.21613	212.3	207.3	0.304	1.50	1.00	212.32	0.970	0.103	4.00														
52.460	31.1247	0.088309	0.530698	6	46.2	5.1	0.5	0.21633	215.9	210.9	0.285	1.48	1.00	215.90	1.016	0.103	4.00														
52.480	31.8127	0.087249	0.52992	6	46.6	5.0	0.5	0.21653	219.8	214.8	0.276	1.46	1.00	219.79	1.067	0.103	4.00														
52.500	32.2669	0.087243	0.537407	6	47.1	4.8	0.5	0.21673	222.8	217.8	0.272	1.46	1.00	222.83	1.109	0.103	4.00														
52.540	31.5921	0.078309	0.544001	6	45.5	4.7	0.5	0.21713	218.1	213.0	0.249	1.45	1.00	218.09	1.045	0.103	4.00														
52.560	31.6724	0.076975	0.547543	6	45.5	4.7	0.5	0.21733	218.6	213.5	0.245	1.44	1.00	218.56	1.051	0.103	4.00														
52.580	31.7905	0.075959	0.534441	6	45.5	4.6	0.5	0.21753	219.2	214.1	0.240	1.44	1.00	219.17	1.059	0.103	4.00														
52.600	31.8995	0.068909	0.535737	6	44.8	4.4	0.5	0.21773	219.8	214.8	0.217	1.42	1.00	219.82	1.068	0.103	4.00														
52.620	31.9982	0.068946	0.50507	6	44.9	4.4	0.5	0.21793	220.2	215.1	0.217	1.42	1.00	220.18	1.073	0.103	4.00														
52.640	30.5065	0.071147	0.513852	6	43.9	4.8	0.5	0.21813	210.0	205.0	0.235	1.45	1.00	210.03	0.942	0.103	4.00														
52.660	24.937	0.068667	0.461733	6	40.2	5.9	0.5	0.21833	184.5	179.4	0.259	1.52	1.00	184.46	0.864	0.103	3.59														
52.680	24.942	0.06325	0.410132	6	39.3	7.5	0.5	0.21853	168.5	163.4	0.345	1.61	1.00	168.47	0.525	0.103	2.84														
52.700	21.3131	0.098614	0.458422	6	37.1	10.1	0.5	0.21873	147.2	142.2	0.469	1.73	1.02	156.13	0.434	0.103	2.35														
52.720	20.7278	0.128536	0.508813	6	36.4	12.1	0.5	0.21893	143.5	138.5	0.627	1.81	1.12	160.05	0.461	0.103	2.49														
52.740	20.2423	0.24651	0.544347	6	43.0	18.4	0.5	0.21913	140.4	135.4	1.244	2.00	1.30	182.79	0.648	0.103	3.50														
52.760	22.8372	0.222674	0.146655	6	45.2	15.0	0.5	0.21933	155.2	150.2	1.001	1.91	1.19	185.40	0.673	0.103	3.64														
52.780	26.0007	0.183247	0.344075	6	47.8	10.9	0.5	0.21953	177.6	172.6	0.716	1.77	1.08	192.69	0.745	0.103	4.00														
52.800	29.816	0.195157	0.157741	6	53.0	9.4	0.5	0.21973	202.2	197.2	0.668	1.70	1.04	210.39	0.946	0.103	4.00														
52.820	31.8976	0.198669	0.171447	6	55.7	8.6	0.5	0.21993	216.2	211.2	0.635	1.67	1.02	219.56	1.064	0.103	4.00														

CPT Verileri		Pa(MPa) 0.1										D Bölgesi					
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
52.840	32.3389	0.177834	0.072449	6	54.7	7.8	0.5	0.22013	218.5	213.4	0.562	1.63	1.00	218.45	1.050	0.103	4.00
52.860	31.1268	0.123514	0.026363	6	49.2	6.6	0.5	0.22033	209.9	204.8	0.406	1.57	1.00	209.89	0.940	0.103	4.00
52.880	28.9916	0.104858	0.027039	6	45.5	6.7	0.5	0.22053	195.4	190.4	0.371	1.57	1.00	195.41	0.774	0.103	4.00
52.900	28.3445	0.087888	0.040256	6	43.4	6.3	0.5	0.22073	191.1	186.0	0.311	1.55	1.00	191.05	0.729	0.103	3.94
52.920	27.3272	0.089847	0.076035	6	42.6	6.8	0.5	0.22093	184.4	179.3	0.337	1.58	1.00	184.38	0.663	0.103	3.59
52.940	25.4791	0.128246	0.139629	6	43.4	9.1	0.5	0.22113	172.3	167.2	0.500	1.69	1.03	177.68	0.602	0.103	3.26
52.960	24.412	0.149425	0.128744	6	43.8	10.8	0.5	0.22133	165.0	159.9	0.628	1.76	1.08	178.17	0.606	0.103	3.28
52.980	22.287	0.172347	0.078438	6	42.3	13.5	0.5	0.22153	150.3	145.2	0.797	1.86	1.15	173.00	0.562	0.103	3.04
53.000	20.5238	0.164113	0.096522	6	39.5	14.7	0.5	0.22173	138.5	133.4	0.826	1.90	1.19	164.15	0.491	0.103	2.66
53.020	19.8499	0.168829	0.138765	6	38.9	15.6	0.5	0.22193	134.2	129.1	0.878	1.92	1.21	162.62	0.480	0.103	2.60
53.040	23.1473	0.22787	0.210926	6	46.1	15.0	0.5	0.22213	156.7	151.7	1.008	1.91	1.20	187.32	0.691	0.103	3.75
53.060	26.7678	0.259962	0.271511	6	52.6	13.3	0.5	0.22233	181.3	176.3	0.989	1.85	1.15	207.91	0.916	0.103	4.00
53.080	29.4929	0.19339	0.118406	6	52.6	9.6	0.5	0.22253	198.5	193.5	0.670	1.71	1.05	207.83	0.915	0.103	4.00
53.100	29.6313	0.195579	0.074897	6	52.9	9.6	0.5	0.22273	199.0	194.0	0.676	1.71	1.05	208.58	0.924	0.103	4.00
53.120	28.1525	0.196168	0.065452	6	51.1	10.4	0.5	0.22293	189.0	183.9	0.714	1.75	1.07	202.28	0.850	0.103	4.00
53.140	26.9792	0.187816	0.081692	6	49.2	10.8	0.5	0.22313	181.2	176.1	0.714	1.76	1.08	195.76	0.778	0.103	4.00
53.160	26.9783	0.17802	0.147058	6	48.7	10.4	0.5	0.22333	181.5	176.5	0.675	1.75	1.07	194.24	0.762	0.103	4.00
53.180	27.5931	0.18422	0.231313	6	50.0	10.3	0.5	0.22353	186.1	181.1	0.681	1.74	1.07	198.32	0.805	0.103	4.00
53.200	29.407	0.175261	0.374512	6	51.8	9.0	0.5	0.22373	199.1	194.1	0.604	1.69	1.03	204.77	0.879	0.103	4.00
53.220	29.587	0.203825	0.239232	6	53.6	9.9	0.5	0.22393	199.3	194.3	0.701	1.73	1.05	210.25	0.944	0.103	4.00
53.240	27.7952	0.227653	0.071931	6	52.4	11.8	0.5	0.22413	186.1	181.1	0.840	1.80	1.11	205.77	0.890	0.103	4.00
53.260	25.5936	0.2714614	-0.00826	6	48.7	12.8	0.5	0.22433	170.8	165.8	0.864	1.84	1.13	193.71	0.756	0.103	4.00
53.300	28.3131	0.156456	0.1525	6	49.1	9.0	0.5	0.22473	189.9	184.8	0.565	1.69	1.03	195.41	0.774	0.103	4.00
53.340	30.6911	0.182404	0.089122	6	53.5	8.8	0.5	0.22513	205.1	200.1	0.608	1.68	1.02	209.86	0.940	0.103	4.00
53.360	29.8704	0.206479	0.038327	6	53.9	10.0	0.5	0.22533	199.2	194.2	0.708	1.73	1.06	210.70	0.960	0.103	4.00
53.380	32.0924	0.157826	0.008898	6	53.3	7.5	0.5	0.22553	213.8	208.7	0.504	1.62	1.00	213.76	0.988	0.103	4.00
53.400	29.6101	0.145233	0.01555	6	49.7	8.1	0.5	0.22573	197.2	192.1	0.503	1.65	1.00	197.21	0.793	0.103	4.00
53.420	28.2623	0.145432	0.017306	6	48.2	8.7	0.5	0.22593	188.1	183.1	0.528	1.68	1.02	192.06	0.739	0.103	4.00
53.440	30.2332	0.129665	0.039413	6	49.3	7.3	0.5	0.22613	201.3	196.2	0.439	1.61	1.00	201.31	0.839	0.103	4.00
53.460	30.9643	0.142084	0.087863	6	51.1	7.4	0.5	0.22633	206.4	201.3	0.469	1.61	1.00	208.41	0.898	0.103	4.00
53.480	32.9501	0.191065	0.161628	6	56.2	8.4	0.5	0.22653	216.1	211.0	0.602	1.66	1.01	218.05	1.044	0.103	4.00
53.500	33.2731	0.258864	0.179049	6	61.3	9.8	0.5	0.22673	222.2	217.1	0.792	1.72	1.05	234.08	1.273	0.103	4.00
53.520	34.6771	0.234646	0.175162	6	61.7	8.6	0.5	0.22693	231.4	226.3	0.688	1.67	1.02	235.50	1.295	0.103	4.00
53.540	32.2179	0.220987	0.407828	6	58.2	9.2	0.5	0.22713	216.5	211.4	0.694	1.70	1.04	224.08	1.126	0.103	4.00
53.560	31.7628	0.206795	0.153364	6	56.5	9.1	0.5	0.22733	211.7	206.6	0.664	1.69	1.03	218.56	1.051	0.103	4.00
53.580	32.1395	0.167982	0.176487	6	54.4	7.8	0.5	0.22753	214.2	209.2	0.532	1.63	1.00	214.23	0.994	0.103	4.00
53.600	31.7481	0.143388	0.190625	6	52.3	7.2	0.5	0.22773	211.6	206.6	0.461	1.60	1.00	211.64	0.962	0.103	4.00
53.620	31.2902	0.130198	0.36642	6	50.9	6.9	0.5	0.22793	209.7	204.6	0.421	1.58	1.00	209.68	0.937	0.103	4.00
53.640	32.8743	0.137012	0.436105	6	53.2	6.5	0.5	0.22813	220.5	215.5	0.421	1.56	1.00	220.54	1.078	0.103	4.00
53.660	32.0232	0.159122	0.487994	6	54.1	7.5	0.5	0.22833	215.2	210.1	0.501	1.61	1.00	215.15	1.006	0.103	4.00
53.680	31.5994	0.180544	0.107061	6	54.7	8.5	0.5	0.22853	209.7	204.7	0.584	1.66	1.01	212.27	0.970	0.103	4.00

CPT Verileri		Pa(MPa) 0.1										D Bölgesi					
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
53.700	30.4021	0.182459	0.029486	6	53.3	9.1	0.5	0.22873	201.2	196.2	0.615	1.68	1.03	207.61	0.912	0.103	4.00
53.720	30.356	0.172508	0.006479	6	52.6	8.8	0.5	0.22893	200.7	195.6	0.593	1.68	1.02	205.31	0.865	0.103	4.00
53.740	29.0655	0.16952	0.022979	6	51.0	9.3	0.5	0.22913	199.2	187.1	0.599	1.70	1.04	199.56	0.816	0.103	4.00
53.760	30.0809	0.154062	0.073689	6	51.2	8.3	0.5	0.22933	199.1	194.1	0.524	1.65	1.01	200.48	0.829	0.103	4.00
53.820	28.9482	0.101857	0.589728	6	46.4	6.7	0.5	0.22993	194.8	189.7	0.354	1.57	1.00	194.80	0.767	0.103	4.00
53.840	29.0701	0.187575	0.532742	6	52.8	9.7	0.5	0.23013	195.1	190.1	0.651	1.72	1.05	204.84	0.879	0.103	4.00
53.870	22.6922	0.093046	0.567988	6	39.0	9.3	0.5	0.23043	153.2	148.2	0.414	1.70	1.04	159.09	0.454	0.103	2.48
53.890	37.1086	0.170078	0.57343	6	60.6	6.2	0.5	0.23063	248.1	243.1	0.461	1.54	1.00	248.13	1.501	0.103	4.00
53.910	55.884	0.194302	0.582616	6	79.8	3.3	0.5	0.23083	371.7	366.6	0.349	1.33	1.00	371.66	4.854	0.103	4.00
54.030	21.2152	0.091019	0.561854	6	37.3	10.2	0.5	0.23203	143.0	137.9	0.433	1.74	1.06	152.13	0.407	0.103	2.23
54.050	16.1057	0.110023	0.077661	6	31.3	17.1	0.5	0.23223	106.2	101.1	0.714	1.97	1.26	133.72	0.302	0.103	1.65
54.070	13.8154	0.140242	-0.0833	5	29.0	24.0	0.5	0.23243	90.1	85.0	1.082	2.13	1.52	136.49	0.316	0.103	1.73
54.090	11.0369	0.247332	-0.0127	5	27.1	41.6	0.5	0.23263	72.3	67.2	2.413	2.43	2.44	176.11	0.588	0.103	3.21
54.110	10.7313	0.293176	0.043855	5	27.4	46.5	0.5	0.23283	70.6	65.5	2.981	2.49	2.74	193.42	0.753	0.103	4.00
54.130	11.7754	0.327333	0.256307	5	30.4	43.4	0.5	0.23303	76.8	73.7	2.908	2.45	2.55	200.85	0.834	0.103	4.00
54.150	14.2484	0.411991	0.214468	5	36.4	39.8	0.5	0.23323	94.7	89.6	3.010	2.40	2.33	220.60	1.078	0.103	4.00
54.170	20.0678	0.440431	0.138793	5	47.6	27.9	0.5	0.23343	132.3	127.2	2.267	2.21	1.69	223.66	1.121	0.103	4.00
54.190	23.3181	0.356114	-0.03147	5	50.9	20.6	0.5	0.23363	152.3	147.3	1.582	2.05	1.38	210.04	0.942	0.103	4.00
54.210	23.6827	0.33763	-0.05333	6	50.9	19.6	0.5	0.23383	154.5	149.5	1.478	2.03	1.34	207.29	0.908	0.103	4.00
54.230	20.1546	0.335108	-0.00058	5	45.2	23.9	0.5	0.23403	131.7	126.7	1.729	2.13	1.51	198.99	0.813	0.103	4.00
54.250	17.4258	0.262802	0.054625	5	38.8	24.9	0.5	0.23423	114.2	109.1	1.573	2.15	1.55	177.30	0.598	0.103	3.27
54.270	13.1444	0.263645	0.066373	5	31.5	35.0	0.5	0.23443	86.3	81.2	2.120	2.33	2.06	177.35	0.598	0.103	3.28
54.290	16.3421	0.245137	0.710726	5	37.7	24.7	0.5	0.23463	111.3	106.3	1.506	2.15	1.55	172.04	0.554	0.103	3.03
54.310	18.9083	0.191766	0.582788	6	39.7	18.1	0.5	0.23483	127.2	122.1	1.025	1.98	1.29	164.32	0.493	0.103	2.70
54.330	24.8828	0.214167	0.194196	6	48.6	13.7	0.5	0.23503	163.6	158.5	0.881	1.86	1.16	189.27	0.711	0.103	3.89
54.350	29.6332	0.219723	0.086616	6	55.1	10.9	0.5	0.23523	193.8	188.7	0.759	1.76	1.08	209.64	0.957	0.103	4.00
54.370	29.8954	0.217528	0.045813	6	55.2	10.7	0.5	0.23543	195.1	190.1	0.746	1.76	1.08	210.16	0.943	0.103	4.00
54.390	26.9233	0.184003	0.090857	6	52.2	10.1	0.5	0.23563	189.9	183.9	0.652	1.73	1.06	200.41	0.829	0.103	4.00
54.410	27.3051	0.123036	0.151118	6	46.4	8.6	0.5	0.23583	178.8	173.7	0.485	1.67	1.02	182.06	0.641	0.103	3.51
54.430	22.2953	0.111996	0.230478	6	40.2	11.3	0.5	0.23603	146.6	141.5	0.543	1.78	1.09	160.44	0.464	0.103	2.54
54.450	17.9714	0.111145	0.266616	6	34.3	14.8	0.5	0.23623	118.7	113.6	0.637	1.90	1.19	141.15	0.342	0.103	1.87
54.470	16.6882	0.133645	0.359337	6	33.8	17.9	0.5	0.23643	110.9	105.8	0.822	1.98	1.28	142.43	0.349	0.103	1.91
54.490	27.8857	0.241739	0.680779	6	54.7	12.3	0.5	0.23663	185.7	180.6	0.870	1.82	1.12	207.99	0.917	0.103	4.00
54.510	20.7297	0.113111	0.409757	6	38.3	12.2	0.5	0.23793	137.0	132.0	0.556	1.82	1.12	153.22	0.415	0.103	2.27
54.530	17.5975	0.111641	0.151665	6	33.8	15.5	0.5	0.23813	115.0	109.9	0.658	1.92	1.21	139.19	0.331	0.103	1.82
54.550	17.8671	0.205394	-0.03735	5	37.8	21.4	0.5	0.23833	115.5	110.4	1.205	2.07	1.41	162.85	0.462	0.103	2.64
54.570	20.2026	0.265938	-0.03332	5	43.6	21.3	0.5	0.23853	130.6	125.5	1.390	2.07	1.41	183.55	0.655	0.103	3.60
54.700	24.0455	0.275562	0.198457	6	50.1	16.9	0.5	0.23873	156.9	151.8	1.175	1.96	1.25	196.57	0.786	0.103	4.00
54.720	27.3512	0.278116	0.21418	6	55.1	14.3	0.5	0.23893	178.3	173.2	1.039	1.88	1.17	209.26	0.932	0.103	4.00
54.740	29.3904	0.259305	0.349431	6	57.3	12.3	0.5	0.23913	192.3	187.2	0.896	1.82	1.12	215.09	1.005	0.103	4.00
54.760	28.631	0.240208	0.455024	6	55.8	11.9	0.5	0.23933	189.3	184.2	0.843	1.80	1.11	210.13	0.943	0.103	4.00
54.780	28.1119	0.234826	0.475526	6	54.6	12.2	0.5	0.23953	184.7	179.6	0.845	1.81	1.12	206.29	0.896	0.103	4.00

CPT Verileri		Pa(MPa) 0.1										D Bölgesi					
Derinlik m	qc MPa	fs kPa	u kPa	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
54.800	26.6404	0.242533	0.495366	6	53.0	13.4	0.5	0.23973	175.3	170.2	0.920	1.86	1.15	201.52	0.841	0.103	4.00
54.820	25.6518	0.194451	0.500491	6	49.4	12.4	0.5	0.23993	168.8	163.7	0.767	1.82	1.12	189.29	0.711	0.103	3.91
54.840	25.7579	0.194717	0.543396	6	49.6	12.3	0.5	0.24013	169.7	164.6	0.763	1.82	1.12	189.92	0.717	0.103	3.94
54.860	34.1851	0.2217	0.594479	6	61.8	8.8	0.5	0.24033	224.3	219.3	0.852	1.68	1.02	229.26	1.201	0.103	4.00
54.880	57.8682	0.261363	0.598587	6	89.6	4.1	0.5	0.24053	377.1	372.0	0.453	1.40	1.00	377.11	5.068	0.103	4.00
54.900	65.7639	0.353597	0.742228	6	105.4	4.2	0.5	0.24073	428.7	423.6	0.538	1.40	1.00	428.68	7.406	0.103	4.00
54.920	57.7266	0.401729	0.053263	6	100.1	6.0	0.5	0.24093	372.3	367.2	0.705	1.53	1.00	372.31	4.880	0.103	4.00
54.940	51.6331	0.36306	-0.02232	6	90.5	6.7	0.5	0.24113	332.4	327.3	0.714	1.57	1.00	332.36	3.495	0.103	4.00
54.960	40.2997	0.410986	-0.04472	6	78.7	10.8	0.5	0.24133	259.1	254.0	1.042	1.76	1.08	280.05	2.123	0.103	4.00
54.980	32.2401	0.408295	-0.04829	6	67.0	14.9	0.5	0.24153	207.1	202.0	1.300	1.90	1.19	246.69	1.476	0.103	4.00
55.000	29.731	0.445118	-0.04642	6	64.2	17.6	0.5	0.24173	190.9	185.8	1.541	1.98	1.27	243.40	1.421	0.103	4.00
55.020	28.5827	0.43469	-0.0402	6	62.1	18.3	0.5	0.24193	183.5	178.4	1.566	2.00	1.30	238.02	1.334	0.103	4.00
55.040	25.8641	0.371472	-0.03945	6	55.9	18.9	0.5	0.24213	166.0	160.9	1.484	2.01	1.32	218.77	1.054	0.103	4.00
55.060	23.3827	0.246042	-0.04201	6	47.8	16.8	0.5	0.24233	149.9	144.8	1.091	1.96	1.25	187.35	0.892	0.103	3.81
55.080	21.926	0.315826	-0.04786	5	47.9	21.3	0.5	0.24253	140.5	135.4	1.498	2.07	1.41	197.41	0.795	0.103	4.00
55.100	22.3553	0.487858	-0.10597	5	52.6	27.0	0.5	0.24273	142.8	137.7	2.273	2.19	1.65	235.42	1.293		
55.120	13.4582	0.456595	0.560472	5	36.4	44.6	0.5	0.24293	85.9	84.8	3.453	2.47	2.62	235.53	1.295		
55.140	14.7303	0.695476	0.504212	5	41.9	50.6	0.5	0.24313	96.3	93.2	4.783	2.54	3.01	295.57	2.481		
55.160	19.261	0.729664	0.548177	5	51.7	39.3	0.5	0.24333	127.0	121.9	3.837	2.40	2.30	291.70	2.388		
55.180	30.7068	0.729664	0.815656	5	74.4	22.7	0.5	0.24353	202.0	196.9	2.375	2.10	1.46	294.75	2.461		
55.200	39.5466	0.729664	0.915029	6	90.1	16.4	0.5	0.24373	259.2	254.1	1.840	1.95	1.24	320.29	3.136		
55.220	42.9132	0.716253	0.401695	6	94.5	14.7	0.5	0.24393	277.3	272.2	1.685	1.90	1.19	329.16	3.397		
55.240	43.889	0.560051	0.411975	6	90.9	11.9	0.5	0.24413	283.5	278.4	1.287	1.80	1.11	314.59	2.976		
55.260	44.0201	0.413125	0.457327	6	84.8	9.4	0.5	0.24433	284.5	279.4	0.946	1.71	1.04	296.60	2.506		

CPT Verileri		Pa(MPa)										E Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	GRR	Oturma [m]	FL Güvenlik Katsayısı				
					0.1											110	4.47				
46.640	15.9303	0.0251046	0.466081	6	21.9	6.0	0.5	0.15813	130.4	125.4	0.159	1.53	1.00	130.39	0.286	0.110	1.40				
46.660	16.6236	0.0330904	0.4670888	6	23.3	6.2	0.5	0.15833	135.8	130.9	0.201	1.54	1.00	135.82	0.313	0.110	1.53				
46.680	16.8655	0.0367734	0.4617329	6	23.9	6.4	0.5	0.15853	137.6	132.7	0.220	1.55	1.00	137.62	0.322	0.110	1.57				
46.700	16.9947	0.0448336	0.4720992	6	24.9	6.9	0.5	0.15873	138.6	133.7	0.266	1.58	1.00	138.64	0.328	0.110	1.60				
46.720	16.7768	0.0521312	0.4730495	6	25.3	7.5	0.5	0.15893	136.8	131.9	0.314	1.62	1.00	136.83	0.318	0.110	1.56				
46.740	16.2534	0.055901	0.4716961	6	25.2	8.2	0.5	0.15913	132.6	127.6	0.347	1.65	1.00	133.09	0.299	0.110	1.46				
46.760	15.5436	0.0574572	0.477052	6	24.6	8.9	0.5	0.15933	126.9	122.0	0.373	1.68	1.03	130.26	0.286	0.110	1.40				
46.780	14.9103	0.0594785	0.4669737	6	24.1	9.7	0.5	0.15953	121.7	116.8	0.403	1.72	1.05	127.65	0.273	0.110	1.34				
46.800	14.7524	0.062839	0.4714369	6	24.2	10.1	0.5	0.15973	120.5	115.5	0.431	1.73	1.06	127.78	0.274	0.110	1.34				
46.820	14.7811	0.0621756	0.4705731	6	24.2	10.0	0.5	0.15993	120.6	115.6	0.425	1.73	1.06	127.69	0.274	0.109	1.34				
46.840	14.7275	0.0576494	0.4680391	6	23.8	9.7	0.5	0.16013	120.1	115.1	0.396	1.72	1.05	126.09	0.266	0.109	1.31				
46.860	15.0912	0.0524475	0.4134432	6	23.8	9.0	0.5	0.16033	122.4	117.5	0.353	1.69	1.03	126.01	0.266	0.109	1.31				
46.880	15.2371	0.0443624	0.4292806	6	23.2	8.2	0.5	0.16053	123.6	118.7	0.295	1.65	1.00	124.02	0.257	0.109	1.26				
46.920	14.3675	0.0419195	0.4656491	6	22.2	8.7	0.5	0.16093	116.9	112.0	0.295	1.67	1.02	119.22	0.238	0.109	1.17				
46.940	14.421	0.0373066	0.4668009	6	21.9	8.2	0.5	0.16113	117.3	112.3	0.262	1.65	1.00	117.78	0.232	0.109	1.14				
46.960	15.4965	0.0321108	0.4739709	6	22.4	7.0	0.5	0.16133	125.7	120.8	0.209	1.59	1.00	125.74	0.265	0.109	1.30				
46.980	17.2375	0.0296679	0.4740861	6	23.7	5.8	0.5	0.16153	139.4	134.4	0.174	1.52	1.00	139.36	0.332	0.109	1.63				
47.000	18.1708	0.0330718	0.4683846	6	24.9	5.5	0.5	0.16173	146.6	141.6	0.184	1.50	1.00	146.57	0.373	0.109	1.84				
47.020	18.2308	0.0381994	0.4754395	6	25.0	5.9	0.5	0.16193	147.0	142.0	0.211	1.52	1.00	147.00	0.375	0.109	1.85				
47.040	17.976	0.0431906	0.4718401	6	25.8	6.3	0.5	0.16213	144.9	139.9	0.242	1.55	1.00	144.88	0.363	0.109	1.79				
47.060	17.9834	0.0428743	0.4674056	6	25.8	6.3	0.5	0.16233	144.8	139.8	0.241	1.55	1.00	144.82	0.362	0.109	1.79				
47.080	17.9206	0.0432278	0.4655051	6	25.8	6.4	0.5	0.16253	144.2	139.3	0.243	1.55	1.00	144.22	0.359	0.109	1.77				
47.100	17.8209	0.0485041	0.4640365	6	26.2	6.8	0.5	0.16273	143.3	138.4	0.275	1.58	1.00	143.34	0.354	0.109	1.75				
47.120	17.6954	0.0482375	0.4657931	6	26.1	6.9	0.5	0.16293	142.3	137.3	0.275	1.58	1.00	142.28	0.348	0.109	1.72				
47.140	17.7138	0.050358	0.468815	6	26.3	7.0	0.5	0.16313	142.4	137.4	0.287	1.59	1.00	142.36	0.348	0.109	1.72				
47.160	17.3843	0.0517716	0.4622224	6	26.1	7.3	0.5	0.16333	139.6	134.7	0.301	1.61	1.00	139.64	0.333	0.109	1.65				
47.200	16.0743	0.0532721	0.4788661	6	25.0	8.4	0.5	0.16373	129.4	124.4	0.335	1.66	1.01	130.60	0.287	0.109	1.42				
47.220	15.7651	0.0520506	0.4718689	6	24.6	8.5	0.5	0.16393	126.8	121.8	0.334	1.67	1.01	128.71	0.278	0.109	1.38				
47.240	15.2952	0.0485661	0.4750939	6	23.9	8.6	0.5	0.16413	123.1	118.1	0.321	1.67	1.02	125.35	0.263	0.109	1.30				
47.260	14.9961	0.0463031	0.476908	6	23.4	8.7	0.5	0.16433	120.7	115.7	0.312	1.67	1.02	123.17	0.254	0.109	1.26				
47.280	14.9601	0.0538983	0.4637325	6	24.0	9.4	0.5	0.16453	120.4	115.4	0.364	1.71	1.04	125.38	0.263	0.109	1.30				
47.300	15.1032	0.0584306	0.4680391	6	24.5	9.2	0.5	0.16473	121.3	116.4	0.391	1.72	1.05	127.30	0.272	0.109	1.35				
47.320	15.6525	0.0586104	0.4794996	6	25.1	9.2	0.5	0.16493	125.6	120.6	0.378	1.70	1.04	130.07	0.285	0.109	1.41				
47.340	16.5313	0.0624546	0.4672984	6	26.3	8.8	0.5	0.16513	132.2	127.2	0.382	1.68	1.02	135.26	0.310	0.109	1.54				
47.360	17.5218	0.0660197	0.4319586	6	27.6	8.3	0.5	0.16533	139.6	134.7	0.381	1.66	1.01	140.75	0.339	0.109	1.68				
47.380	17.8781	0.0682951	0.4438951	6	28.1	8.2	0.5	0.16553	142.4	137.4	0.386	1.65	1.00	143.07	0.352	0.109	1.75				
47.400	18.8382	0.0675077	0.4395029	6	29.0	7.6	0.5	0.16573	149.7	144.8	0.362	1.62	1.00	149.75	0.392	0.109	1.95				
47.420	19.6542	0.0711658	0.4270633	6	30.1	7.3	0.5	0.16593	155.9	150.9	0.366	1.61	1.00	155.89	0.432	0.109	2.15				

CPT Verileri		Pa(MPa) 0.1										E Bölgesi					
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
																110	4.47
47.440	20.2856	0.0678425	0.3784281	6	30.4	6.8	0.5	0.16613	160.3	155.4	0.339	1.58	1.00	160.32	0.463	0.109	2.30
47.480	20.509	0.0605697	0.1308459	6	29.7	6.4	0.5	0.16653	159.9	155.0	0.303	1.56	1.00	159.94	0.461	0.109	2.29
47.500	20.5413	0.0557398	0.0464468	6	29.2	6.2	0.5	0.16673	159.4	154.5	0.279	1.54	1.00	159.44	0.457	0.109	2.27
47.520	20.8487	0.0556964	0.123935	6	29.6	6.0	0.5	0.16693	162.3	157.4	0.274	1.53	1.00	162.33	0.478	0.109	2.38
47.540	21.9777	0.0474935	0.2694954	6	29.8	5.0	0.5	0.16713	172.1	167.1	0.220	1.47	1.00	172.09	0.554	0.109	2.76
47.560	22.2067	0.032086	0.3403319	6	28.3	4.2	0.5	0.16733	174.3	169.3	0.146	1.41	1.00	174.30	0.572	0.109	2.85
47.580	21.9823	0.0351427	0.0758181	6	28.3	4.5	0.5	0.16753	170.4	165.5	0.164	1.43	1.00	170.42	0.540	0.109	2.69
47.600	21.9934	0.0502588	-0.0151751	6	29.9	5.3	0.5	0.16773	169.7	164.7	0.236	1.49	1.00	169.70	0.535	0.109	2.67
47.620	22.3156	0.051257	-0.0213065	6	30.3	5.2	0.5	0.16793	172.0	167.1	0.237	1.48	1.00	172.04	0.554	0.109	2.76
47.640	22.0497	0.0472579	0.0973282	6	29.8	5.1	0.5	0.16813	170.8	165.8	0.220	1.47	1.00	170.80	0.543	0.109	2.71
47.660	20.9688	0.0422915	0.22636	6	28.5	5.2	0.5	0.16833	163.4	158.4	0.206	1.48	1.00	163.36	0.485	0.109	2.43
47.680	20.7407	0.0425953	0.3603573	6	28.5	5.3	0.5	0.16853	162.7	157.7	0.208	1.49	1.00	162.70	0.481	0.109	2.40
47.700	21.1672	0.0477229	0.3230547	6	29.3	5.4	0.5	0.16873	165.4	160.5	0.229	1.50	1.00	165.44	0.501	0.109	2.51
47.740	22.4614	0.0364819	0.428935	6	29.3	4.4	0.5	0.16913	176.0	171.0	0.164	1.42	1.00	176.01	0.587	0.109	2.94
47.760	22.8058	0.038559	0.380962	6	29.7	4.4	0.5	0.16933	178.2	173.2	0.171	1.42	1.00	178.19	0.606	0.109	3.03
47.780	23.0679	0.0632482	0.3965115	6	32.7	5.4	0.5	0.16953	180.2	175.2	0.277	1.50	1.00	180.21	0.624	0.109	3.13
47.800	23.1316	0.0755122	0.32962	6	33.8	6.0	0.5	0.16973	180.1	175.1	0.331	1.53	1.00	180.06	0.623	0.109	3.12
47.820	23.0596	0.0755928	0.2669902	6	33.7	6.1	0.5	0.16993	178.9	174.0	0.333	1.54	1.00	178.94	0.613	0.109	3.07
47.840	23.2673	0.0699382	0.2167424	6	33.4	5.7	0.5	0.17013	180.0	175.1	0.306	1.52	1.00	180.05	0.623	0.109	3.12
47.860	24.0963	0.0616547	0.1924967	6	33.2	5.1	0.5	0.17033	186.1	181.1	0.261	1.47	1.00	186.11	0.679	0.109	3.41
47.880	24.8994	0.0648974	0.3432978	6	34.4	4.9	0.5	0.17053	193.3	188.3	0.264	1.46	1.00	193.30	0.752	0.109	3.77
47.900	25.3471	0.0584306	0.3255887	6	34.0	4.5	0.5	0.17073	196.5	191.5	0.294	1.43	1.00	196.48	0.785	0.109	3.94
47.920	25.5613	0.0616795	0.2872045	6	34.6	4.6	0.5	0.17093	197.7	192.7	0.245	1.44	1.00	197.71	0.799	0.109	4.00
47.940	25.9868	0.0710108	0.3187432	6	35.9	4.8	0.5	0.17113	201.1	196.1	0.277	1.45	1.00	201.09	0.836	0.109	4.00
47.960	27.2811	0.089289	0.0588831	6	38.7	5.2	0.5	0.17133	209.2	204.2	0.334	1.48	1.00	209.18	0.931	0.109	4.00
47.980	28.434	0.1098861	-0.0224316	6	41.4	5.5	0.5	0.17153	216.9	212.0	0.396	1.50	1.00	216.93	1.029	0.109	4.00
48.020	28.6288	0.062256	-0.0369156	6	39.0	4.6	0.5	0.17193	218.1	213.1	0.294	1.44	1.00	218.06	1.044	0.109	4.00
48.040	28.0731	0.0834918	-0.0364837	6	38.7	4.8	0.5	0.17213	213.7	208.7	0.305	1.45	1.00	213.70	0.988	0.109	4.00
48.060	26.9183	0.0790339	-0.0256294	6	37.3	5.0	0.5	0.17233	204.9	199.9	0.301	1.46	1.00	204.66	0.980	0.109	4.00
48.080	26.3404	0.058412	0.0605853	6	34.8	4.3	0.5	0.17253	201.0	196.0	0.227	1.42	1.00	201.00	0.835	0.109	4.00
48.100	26.069	0.056242	0.1968317	6	34.4	4.3	0.5	0.17273	199.9	194.9	0.220	1.42	1.00	199.87	0.823	0.109	4.00
48.120	25.7755	0.0567132	0.2996153	6	34.4	4.4	0.5	0.17293	198.3	193.3	0.223	1.42	1.00	198.29	0.805	0.109	4.00
48.140	26.1465	0.0514554	0.3859856	6	34.1	4.1	0.5	0.17313	201.6	196.7	0.199	1.40	1.00	201.63	0.842	0.109	4.00
48.160	26.1853	0.05773	0.4031632	6	34.9	4.3	0.5	0.17333	202.0	197.0	0.223	1.41	1.00	202.96	0.846	0.109	4.00
48.180	25.9767	0.0629444	0.3974906	6	35.3	4.6	0.5	0.17353	200.2	195.2	0.245	1.43	1.00	200.21	0.826	0.109	4.00
48.200	26.0339	0.0621446	0.4229744	6	35.3	4.5	0.5	0.17373	200.7	195.7	0.241	1.43	1.00	200.72	0.832	0.109	4.00
48.220	26.7807	0.0619089	0.4341182	6	35.9	4.3	0.5	0.17393	206.4	201.4	0.233	1.41	1.00	206.36	0.897	0.109	4.00
48.240	26.9654	0.0626592	0.4407123	6	36.2	4.3	0.5	0.17413	207.7	202.7	0.234	1.41	1.00	207.69	0.913	0.109	4.00

CPT Verileri		Pa(MPa)										0.1		E Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı						
48.280	24.8948	0.0500604	0.4575864	6	33.2	4.4	0.5	0.17453	191.9	186.9	0.203	1.42	1.00	191.90	0.737	0.109	3.73						
48.300	25.2655	0.0515794	0.449898	6	33.7	4.3	0.5	0.17473	194.5	189.6	0.206	1.42	1.00	194.54	0.765	0.109	3.87						
48.320	25.2253	0.0600861	0.4545029	6	34.6	4.7	0.5	0.17493	194.2	189.2	0.240	1.45	1.00	194.16	0.761	0.109	3.85						
48.340	24.1905	0.0673889	0.4495813	6	34.5	5.4	0.5	0.17513	186.2	181.2	0.281	1.49	1.00	186.19	0.680	0.109	3.45						
48.360	23.4132	0.0679975	0.465937	6	33.9	5.7	0.5	0.17533	180.3	175.4	0.293	1.51	1.00	180.34	0.625	0.109	3.17						
48.380	23.8784	0.0610595	0.4668297	6	33.6	5.2	0.5	0.17553	183.8	178.8	0.258	1.48	1.00	183.75	0.657	0.109	3.33						
48.400	24.3446	0.0569364	0.472128	6	33.6	4.9	0.5	0.17573	187.2	182.2	0.236	1.46	1.00	187.21	0.690	0.109	3.50						
48.420	24.1009	0.0510276	0.4526336	6	32.8	4.7	0.5	0.17593	185.1	180.1	0.214	1.45	1.00	185.12	0.670	0.109	3.40						
48.440	23.3938	0.0410763	0.4427856	6	31.1	4.5	0.5	0.17613	179.6	174.6	0.177	1.43	1.00	179.61	0.619	0.109	3.14						
48.460	22.5085	0.0373376	0.4585654	6	30.0	4.6	0.5	0.17633	173.0	168.0	0.167	1.44	1.00	172.96	0.581	0.109	2.85						
48.480	22.2242	0.0382986	0.453987	6	29.9	4.7	0.5	0.17653	170.7	165.7	0.174	1.45	1.00	170.69	0.542	0.109	2.76						
48.500	22.1707	0.0398053	0.4485735	6	30.0	4.9	0.5	0.17673	170.1	165.2	0.181	1.46	1.00	170.15	0.538	0.109	2.74						
48.520	22.322	0.0458256	0.4636622	6	30.3	5.1	0.5	0.17693	171.3	166.3	0.207	1.47	1.00	171.30	0.547	0.109	2.78						
48.540	21.2226	0.0645006	0.4665129	6	31.7	6.5	0.5	0.17713	163.0	158.0	0.307	1.56	1.00	162.97	0.483	0.109	2.46						
48.560	20.606	0.0611711	0.4405108	6	30.9	6.7	0.5	0.17733	158.0	153.1	0.300	1.57	1.00	158.05	0.447	0.109	2.28						
48.580	20.1573	0.0646556	0.4477384	6	30.8	7.1	0.5	0.17753	154.6	149.7	0.324	1.60	1.00	154.65	0.424	0.109	2.16						
48.600	19.2711	0.0761818	0.4591989	6	30.9	8.3	0.5	0.17773	148.0	143.0	0.400	1.66	1.01	149.27	0.389	0.109	1.98						
48.620	18.1523	0.0744271	0.4384951	6	29.6	9.0	0.5	0.17793	139.4	134.4	0.415	1.69	1.03	143.64	0.356	0.109	1.81						
48.640	17.4526	0.0641534	0.4563482	6	28.1	8.9	0.5	0.17813	134.2	129.2	0.372	1.68	1.03	137.58	0.322	0.109	1.64						
48.660	17.7692	0.0443996	0.4735966	6	26.7	7.2	0.5	0.17833	136.6	131.6	0.253	1.60	1.00	136.61	0.317	0.108	1.62						
48.680	17.5864	0.037539	0.4788949	6	25.9	6.9	0.5	0.17853	135.2	130.2	0.218	1.58	1.00	135.20	0.310	0.108	1.58						
48.700	16.8858	0.0375546	0.4701987	6	25.2	7.3	0.5	0.17873	129.8	124.8	0.225	1.61	1.00	129.82	0.283	0.108	1.45						
48.720	15.9737	0.0386582	0.4730495	6	24.5	8.0	0.5	0.17893	123.0	118.0	0.245	1.64	1.00	122.63	0.252	0.108	1.28						
48.740	15.4374	0.0436184	0.4764761	6	24.4	8.9	0.5	0.17913	118.9	113.9	0.286	1.68	1.03	121.95	0.249	0.108	1.27						
48.760	15.61	0.0408035	0.4725024	6	24.3	8.5	0.5	0.17933	120.1	115.1	0.265	1.66	1.01	121.75	0.248	0.108	1.27						
48.780	16.5996	0.0370586	0.4780023	6	25.0	7.5	0.5	0.17953	127.5	122.5	0.226	1.61	1.00	127.46	0.273	0.108	1.39						
48.800	18.2446	0.0341197	0.4863817	6	26.2	6.3	0.5	0.17993	139.6	134.7	0.189	1.55	1.00	139.64	0.333	0.108	1.71						
48.840	19.6505	0.0389124	0.4764473	6	28.0	5.9	0.5	0.18013	150.0	145.0	0.200	1.53	1.00	149.96	0.394	0.108	2.02						
48.860	21.3592	0.0422419	0.4714369	6	29.9	5.4	0.5	0.18033	162.6	157.6	0.200	1.49	1.00	162.57	0.490	0.108	2.46						
48.880	23.3209	0.0601667	0.4754395	6	33.5	5.5	0.5	0.18053	177.1	172.1	0.260	1.50	1.00	177.11	0.597	0.108	3.06						
48.900	24.3437	0.075971	0.468759	6	35.9	5.9	0.5	0.18073	184.6	179.6	0.315	1.52	1.00	184.57	0.685	0.108	3.41						
48.920	24.4572	0.0699568	0.4572696	6	35.4	5.6	0.5	0.18093	185.2	180.2	0.289	1.51	1.00	185.22	0.671	0.108	3.44						
48.940	24.1268	0.0656415	0.4701699	6	34.8	5.5	0.5	0.18113	182.8	177.8	0.274	1.50	1.00	182.76	0.648	0.108	3.32						
48.960	22.8815	0.0716619	0.4707171	6	34.2	6.3	0.5	0.18133	173.4	168.4	0.316	1.55	1.00	173.42	0.585	0.108	2.90						
48.980	21.4931	0.0610223	0.4822928	6	32.0	6.4	0.5	0.18153	163.1	158.1	0.286	1.56	1.00	163.10	0.484	0.108	2.48						
49.000	20.9706	0.0468673	0.4529215	6	30.1	5.9	0.5	0.18173	158.9	153.9	0.226	1.52	1.00	158.92	0.453	0.108	2.33						
49.020	21.8125	0.0362587	0.4537278	6	29.7	5.0	0.5	0.18193	160.1	160.1	0.160	1.46	1.00	160.08	0.498	0.108	2.56						
49.040	22.9525	0.0364571	0.4794708	6	30.7	4.6	0.5	0.18213	173.6	168.6	0.160	1.44	1.00	173.63	0.567	0.108	2.91						

CPT Verileri		Pa(MPa)										E Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı				
					0.1											110	4.47				
49.060	23.5276	0.0360107	0.479442	6	31.1	4.4	0.5	0.18233	177.8	172.8	0.154	1.42	1.00	177.79	0.603	0.108	3.10				
49.100	22.3405	0.057111	0.472272	6	32.4	5.9	0.5	0.18273	168.8	163.8	0.258	1.52	1.00	168.76	0.527	0.108	2.71				
49.120	22.0036	0.0593996	0.4628559	6	32.3	6.1	0.5	0.18293	166.1	161.1	0.268	1.54	1.00	166.11	0.506	0.108	2.61				
49.140	21.4488	0.0589453	0.4743741	6	31.8	6.4	0.5	0.18313	162.0	157.0	0.277	1.55	1.00	162.00	0.475	0.108	2.45				
49.160	21.338	0.0453792	0.4435631	6	30.4	5.7	0.5	0.18333	160.9	155.9	0.215	1.51	1.00	160.87	0.467	0.108	2.41				
49.180	21.5235	0.0364695	0.4751227	6	29.6	5.1	0.5	0.18353	162.4	157.4	0.171	1.48	1.00	162.38	0.478	0.108	2.46				
49.200	21.5799	0.0376042	0.4843372	6	29.8	5.2	0.5	0.18373	162.8	157.8	0.176	1.48	1.00	162.78	0.481	0.108	2.48				
49.220	22.0839	0.0367486	0.4690469	6	30.1	5.0	0.5	0.18393	166.3	161.3	0.168	1.46	1.00	166.29	0.508	0.108	2.52				
49.240	22.6399	0.0438726	0.4809106	6	31.6	5.0	0.5	0.18413	171.9	166.9	0.194	1.47	1.00	171.86	0.552	0.108	2.85				
49.260	23.6489	0.0453296	0.4745468	6	32.6	4.8	0.5	0.18433	179.2	174.2	0.192	1.45	1.00	179.15	0.615	0.108	3.17				
49.280	25.3517	0.0410949	0.477484	6	33.3	4.2	0.5	0.18453	190.1	185.2	0.163	1.40	1.00	190.14	0.719	0.108	3.71				
49.300	26.2896	0.0370276	0.4782902	6	33.6	3.8	0.5	0.18473	196.9	192.0	0.142	1.37	1.00	196.95	0.790	0.108	4.00				
49.320	26.0238	0.04466	0.479874	6	34.3	4.1	0.5	0.18493	194.9	189.9	0.173	1.40	1.00	194.90	0.768	0.108	3.97				
49.360	24.5505	0.0379514	0.4864393	6	32.4	4.3	0.5	0.18533	183.9	178.9	0.156	1.41	1.00	183.91	0.659	0.108	3.40				
49.380	24.6982	0.0400037	0.4671176	6	32.8	4.3	0.5	0.18553	184.8	179.8	0.163	1.42	1.00	184.75	0.667	0.108	3.44				
49.400	24.3308	0.044474	0.4770808	6	33.0	4.6	0.5	0.18573	182.0	177.0	0.184	1.44	1.00	182.03	0.641	0.108	3.31				
49.420	23.5581	0.0454226	0.4678951	6	32.5	4.9	0.5	0.18593	176.2	171.2	0.195	1.46	1.00	176.20	0.589	0.108	3.04				
49.440	21.9657	0.0467929	0.4727903	6	31.3	5.6	0.5	0.18613	164.5	159.5	0.215	1.51	1.00	164.47	0.494	0.108	2.55				
49.460	19.7622	0.0498868	0.4652171	6	29.6	6.8	0.5	0.18633	148.2	143.2	0.255	1.58	1.00	148.18	0.383	0.108	1.98				
49.480	17.9926	0.052342	0.4759891	6	28.1	8.0	0.5	0.18653	135.3	130.3	0.294	1.64	1.00	134.92	0.308	0.108	1.59				
49.500	18.2972	0.0466565	0.4815153	6	27.9	7.4	0.5	0.18673	137.4	132.4	0.258	1.61	1.00	137.42	0.321	0.108	1.66				
49.520	20.4933	0.039396	0.4882534	6	29.3	5.8	0.5	0.18693	153.5	148.5	0.194	1.52	1.00	153.46	0.416	0.108	2.15				
49.540	22.1771	0.0335183	0.4864969	6	30.1	4.9	0.5	0.18713	165.7	160.7	0.152	1.46	1.00	165.68	0.503	0.108	2.60				
49.560	22.4236	0.0357751	0.4866985	6	30.6	4.9	0.5	0.18733	167.4	162.4	0.161	1.46	1.00	167.39	0.516	0.108	2.67				
49.580	21.3712	0.0416777	0.4978134	6	30.3	5.6	0.5	0.18753	159.7	154.7	0.197	1.51	1.00	159.70	0.459	0.108	2.37				
49.600	20.6189	0.0445608	0.4950491	6	30.0	6.1	0.5	0.18773	154.1	149.1	0.218	1.54	1.00	154.10	0.420	0.108	2.18				
49.640	20.5653	0.0521126	0.4953083	6	30.7	6.6	0.5	0.18813	153.5	148.6	0.256	1.57	1.00	153.55	0.417	0.108	2.16				
49.660	21.0888	0.0531419	0.479874	6	31.3	6.4	0.5	0.18833	157.2	152.2	0.254	1.56	1.00	157.17	0.441	0.108	2.28				
49.680	22.1485	0.0499054	0.48451	6	31.9	5.8	0.5	0.18853	164.8	159.8	0.227	1.52	1.00	164.84	0.497	0.108	2.57				
49.700	23.6692	0.0399541	0.4780887	6	32.3	4.7	0.5	0.18873	177.2	172.2	0.169	1.44	1.00	177.23	0.598	0.108	3.10				
49.720	26.1069	0.0337849	0.5054442	6	33.5	3.8	0.5	0.18893	193.6	188.6	0.130	1.37	1.00	193.61	0.755	0.108	3.91				
49.740	28.6279	0.0281861	0.5047243	6	34.8	3.1	0.5	0.18913	211.8	206.8	0.099	1.31	1.00	211.84	0.964	0.108	4.00				
49.760	32.5229	0.0255076	0.5144859	7	37.4	2.5	0.5	0.18933	240.1	235.2	0.079	1.24	1.00	240.15	1.368	0.108	4.00				
49.780	40.3313	0.0317822	0.5384724	7	43.2	1.8	0.5	0.18953	296.9	291.9	0.079	1.15	1.00	296.87	2.513	0.108	4.00				
49.820	24.976	0.0283473	0.5435116	6	32.1	3.9	0.5	0.18993	185.2	180.2	0.114	1.38	1.00	185.17	0.670	0.108	3.48				
49.840	49.9594	0.0164553	0.5543674	7	51.2	1.4	0.5	0.19013	366.3	361.3	0.033	1.08	1.00	366.34	4.652	0.108	4.00				
50.040	18.0341	0.248541	0.186668	6	37.9	20.0	0.5	0.19213	131.5	126.5	1.418	2.04	1.36	178.21	0.606	0.108	3.15				
50.060	13.9309	0.3419594	-0.013793	5	33.0	33.6	0.5	0.19233	100.4	95.4	2.586	2.31	1.98	198.46	0.807	0.108	4.00				

E Bölgesi

CPT Verileri		Pa(MPa)										E Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı				
																		110	4.47		
50.080	12.777	0.3082303	-0.003945	5	30.3	35.1	0.5	0.19253	92.1	87.1	2.522	2.33	2.06	189.60	0.714	0.108	3.72				
50.100	12.1649	0.2562603	-0.0302927	5	26.2	33.8	0.5	0.19273	87.4	82.4	2.240	2.31	1.99	173.65	0.567	0.108	2.95				
50.120	11.3286	0.2426322	-0.0456118	5	26.5	35.8	0.5	0.19293	81.2	76.2	2.291	2.34	2.10	170.25	0.539	0.108	2.81				
50.140	9.5645	0.1839784	-0.0520907	5	22.2	37.9	0.5	0.19313	68.4	63.5	2.086	2.38	2.22	151.88	0.406	0.108	2.11				
50.160	8.081	0.1575036	-0.0543944	5	19.1	42.8	0.5	0.19333	57.7	52.7	2.148	2.45	2.51	145.02	0.364	0.108	1.89				
50.180	7.3914	0.1369871	-0.0452374	5	17.5	44.5	0.5	0.19353	52.8	47.8	2.060	2.47	2.61	137.99	0.324	0.108	1.69				
50.200	6.3612	0.1011934	-0.0152615	5	15.0	46.0	0.5	0.19373	45.6	40.6	1.791	2.49	2.71	123.51	0.255	0.108	1.33				
50.220	6.0908	0.0929099	0.0344392	5	14.4	46.2	0.5	0.19393	44.0	39.0	1.711	2.49	2.72	119.75	0.240	0.108	1.25				
50.240	6.1194	0.0889728	0.0662627	5	14.5	44.6	0.5	0.19413	44.6	39.6	1.612	2.47	2.62	117.01	0.229	0.108	1.19				
50.260	6.4323	0.0893138	0.2618358	5	15.3	41.0	0.5	0.19433	48.0	43.0	1.489	2.42	2.40	115.33	0.223	0.108	1.16				
50.280	7.7265	0.0789037	0.5025359	5	17.4	30.4	0.5	0.19453	59.0	54.0	1.048	2.25	1.81	106.76	0.193	0.108	1.01				
50.300	8.9903	0.0946274	0.5005202	5	19.9	27.7	0.5	0.19473	68.0	63.0	1.076	2.21	1.68	114.22	0.219	0.108	1.14				
50.320	10.8135	0.0936911	0.5001459	5	22.5	22.1	0.5	0.19493	81.0	76.0	0.883	2.09	1.44	116.35	0.226	0.108	1.18				
50.340	11.588	0.0938586	0.5004626	6	23.6	20.3	0.5	0.19513	86.5	81.5	0.824	2.05	1.37	118.35	0.234	0.108	1.22				
50.360	12.3735	0.0940384	0.500549	6	24.7	18.7	0.5	0.19533	92.1	87.1	0.772	2.01	1.31	120.78	0.244	0.107	1.27				
50.380	12.5277	0.093572	0.4994836	6	25.0	18.7	0.5	0.19553	93.2	88.2	0.782	2.01	1.31	122.00	0.249	0.107	1.30				
50.400	12.7806	0.1008462	0.4987349	6	25.6	18.6	0.5	0.19573	94.9	89.9	0.802	2.01	1.31	124.19	0.258	0.107	1.35				
50.420	13.1961	0.1044857	0.4950779	6	26.3	18.2	0.5	0.19593	97.8	92.8	0.804	2.00	1.29	126.65	0.269	0.107	1.40				
50.440	14.0564	0.1043679	0.4892612	6	27.5	16.8	0.5	0.19613	103.9	98.9	0.754	1.96	1.25	129.67	0.283	0.107	1.48				
50.460	14.6278	0.1071332	0.4742589	6	28.3	16.2	0.5	0.19633	107.8	102.8	0.744	1.94	1.23	132.54	0.297	0.107	1.55				
50.480	14.9232	0.1086584	0.4698947	6	28.8	15.9	0.5	0.19653	109.9	104.9	0.739	1.93	1.22	134.15	0.305	0.107	1.59				
50.500	15.3302	0.1105867	0.4662009	6	29.5	15.4	0.5	0.19673	113.2	108.2	0.729	1.92	1.21	136.49	0.316	0.107	1.65				
50.520	16.9412	0.1165265	0.4930334	6	31.9	13.9	0.5	0.19693	124.2	119.2	0.696	1.87	1.16	144.54	0.361	0.107	1.89				
50.540	17.0002	0.1172085	0.4990804	6	32.0	13.9	0.5	0.19713	124.6	119.6	0.698	1.87	1.16	144.94	0.363	0.107	1.90				
50.580	16.8267	0.1155096	0.502939	6	31.7	14.0	0.5	0.19753	123.3	118.3	0.695	1.87	1.17	143.75	0.356	0.107	1.86				
50.600	16.5999	0.1176301	0.4963606	6	31.5	14.5	0.5	0.19773	121.3	116.3	0.719	1.89	1.18	143.02	0.352	0.107	1.84				
50.620	16.4464	0.1163591	0.4919392	6	31.3	14.5	0.5	0.19793	120.4	115.4	0.717	1.89	1.18	142.18	0.347	0.107	1.82				
50.640	17.0316	0.1188887	0.5030254	6	32.2	14.0	0.5	0.19813	124.6	119.6	0.706	1.88	1.17	145.32	0.365	0.107	1.91				
50.660	17.76	0.1234893	0.5039468	6	33.3	13.5	0.5	0.19833	129.7	124.7	0.703	1.86	1.15	149.53	0.391	0.107	2.05				
50.680	18.5566	0.1367329	0.5088421	6	35.0	13.5	0.5	0.19853	135.3	130.3	0.745	1.86	1.15	155.90	0.432	0.107	2.26				
50.770	34.2396	0.086617	0.5836811	7	42.4	2.9	0.5	0.19943	246.6	241.6	0.028	1.29	1.00	246.59	1.474	0.107	4.00				
50.860	47.2759	0.0977213	0.5150042	7	57.6	2.3	0.5	0.20033	337.7	332.6	0.025	1.22	1.00	337.65	3.660	0.107	4.00				
50.880	30.0357	0.4143776	0.7167154	6	62.4	14.1	0.5	0.20053	217.2	212.2	1.379	1.88	1.17	263.69	1.598	0.107	4.00				
50.900	21.5069	0.7296638	0.0313581	5	53.6	32.2	0.5	0.20073	152.0	147.0	3.503	2.29	1.91	289.70	2.341	0.107	4.00				
50.920	20.9909	0.7296638	0.0211358	5	52.5	33.2	0.5	0.20093	148.2	143.2	3.594	2.30	1.96	289.95	2.347	0.107	4.00				
50.940	23.2529	0.6616228	0.0132458	5	55.8	27.7	0.5	0.20113	163.9	158.9	2.936	2.21	1.68	275.65	2.028	0.107	4.00				
50.960	23.9329	0.6561047	-0.005903	5	57.0	26.7	0.5	0.20133	166.6	163.6	2.826	2.19	1.63	275.13	2.017	0.107	4.00				
50.980	24.3437	0.6814138	-0.013361	5	58.2	26.8	0.5	0.20153	171.4	166.4	2.885	2.19	1.64	280.58	2.134	0.107	4.00				

CPT Verileri		Pa(MPa)										0.1										E Bölgesi									
Derinlik m	qc	Koni Uç Direnci	fs	Sürtünme Katsayısı	u	Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [m]	FL Güvenlik Katsayısı											
51.800	28.5679	0.0740179	0.5515455	6	41.8	5.2	0.5	0.20973	201.1	196.0	0.261	1.48	1.00	201.07	0.836	0.106	4.00														
51.820	29.5676	0.0813776	0.5528125	6	43.5	5.2	0.5	0.20993	207.9	202.9	0.277	1.48	1.00	207.69	0.916	0.106	4.00														
51.840	30.212	0.0957	0.5307265	6	45.5	5.5	0.5	0.21013	212.1	207.1	0.319	1.50	1.00	212.08	0.967	0.106	4.00														
51.860	30.8517	0.1119073	0.5402577	6	47.7	5.8	0.5	0.21033	216.5	211.4	0.365	1.52	1.00	216.46	1.023	0.106	4.00														
51.880	30.9163	0.1155654	0.5213104	6	48.0	6.0	0.5	0.21053	216.7	211.6	0.376	1.53	1.00	216.67	1.026	0.106	4.00														
51.920	28.23	0.0740985	0.5641418	6	41.7	5.3	0.5	0.21093	198.4	193.4	0.264	1.49	1.00	198.40	0.806	0.106	4.00														
51.940	29.7624	0.0817062	0.5773749	6	43.8	5.2	0.5	0.21113	208.8	203.8	0.276	1.48	1.00	208.80	0.927	0.106	4.00														
51.960	30.3883	0.0879932	0.5443755	6	45.0	5.2	0.5	0.21133	212.8	207.8	0.291	1.48	1.00	212.78	0.976	0.106	4.00														
51.980	30.4594	0.0946088	0.5564119	6	45.8	5.4	0.5	0.21153	213.3	208.2	0.312	1.50	1.00	213.25	0.982	0.106	4.00														
52.000	30.2452	0.1091544	0.5643594	6	47.0	6.0	0.5	0.21173	211.7	206.7	0.363	1.53	1.00	211.74	0.963	0.106	4.00														
52.020	30.0338	0.1098489	0.5392787	6	46.8	6.1	0.5	0.21193	210.0	205.0	0.368	1.54	1.00	210.01	0.941	0.106	4.00														
52.040	30.1114	0.1118949	0.5391347	6	47.1	6.1	0.5	0.21213	210.4	205.4	0.374	1.54	1.00	210.44	0.947	0.106	4.00														
52.060	30.3818	0.1076106	0.5279909	6	47.0	5.9	0.5	0.21233	212.1	207.1	0.357	1.53	1.00	212.12	0.968	0.106	4.00														
52.080	30.2858	0.1066558	0.5356809	6	46.8	5.9	0.5	0.21253	211.4	206.4	0.354	1.53	1.00	211.42	0.959	0.106	4.00														
52.100	29.6987	0.1064822	0.5237004	6	46.2	6.1	0.5	0.21273	207.2	202.2	0.361	1.54	1.00	207.21	0.907	0.106	4.00														
52.120	28.5337	0.1072324	0.5414383	6	45.2	6.6	0.5	0.21293	199.3	194.2	0.378	1.56	1.00	199.25	0.816	0.106	4.00														
52.140	28.4497	0.1030782	0.547255	6	44.8	6.4	0.5	0.21313	198.6	193.6	0.365	1.56	1.00	198.62	0.809	0.106	4.00														
52.160	28.3482	0.1021172	0.5560376	6	44.6	6.4	0.5	0.21333	197.9	192.9	0.363	1.56	1.00	197.90	0.801	0.106	4.00														
52.200	28.0325	0.0930525	0.5565395	6	43.6	6.2	0.5	0.21373	195.8	190.8	0.334	1.54	1.00	195.84	0.779	0.106	4.00														
52.220	28.1793	0.0947762	0.5609743	6	43.9	6.2	0.5	0.21393	196.6	191.6	0.338	1.55	1.00	196.63	0.787	0.106	4.00														
52.240	28.3048	0.0952226	0.5775189	6	44.0	6.2	0.5	0.21413	197.4	192.3	0.338	1.55	1.00	197.38	0.795	0.106	4.00														
52.260	29.0008	0.095421	0.5851784	6	44.7	6.0	0.5	0.21433	202.1	197.1	0.331	1.53	1.00	202.09	0.848	0.106	4.00														
52.300	30.5397	0.0960038	0.5846313	6	46.3	5.5	0.5	0.21473	212.4	207.4	0.316	1.50	1.00	212.40	0.971	0.106	4.00														
52.320	31.1286	0.0861393	0.5463048	6	45.8	5.1	0.5	0.21493	216.1	211.0	0.278	1.47	1.00	216.06	1.018	0.106	4.00														
52.340	31.6207	0.0867035	0.5599825	6	46.3	4.9	0.5	0.21513	219.4	214.4	0.276	1.46	1.00	219.40	1.052	0.106	4.00														
52.360	31.8118	0.0915955	0.5717886	6	47.0	5.0	0.5	0.21533	220.7	215.6	0.289	1.47	1.00	220.68	1.080	0.106	4.00														
52.380	31.917	0.0942492	0.5724509	6	47.4	5.1	0.5	0.21553	221.3	216.3	0.297	1.47	1.00	221.30	1.088	0.106	4.00														
52.400	31.7988	0.0969835	0.5605136	6	47.6	5.2	0.5	0.21573	220.5	215.4	0.307	1.48	1.00	220.45	1.076	0.106	4.00														
52.420	31.7296	0.0922465	0.5650793	6	47.1	5.1	0.5	0.21593	219.8	214.7	0.292	1.47	1.00	219.77	1.057	0.106	4.00														
52.440	31.4877	0.0971695	0.5587155	6	47.3	5.3	0.5	0.21613	218.0	212.9	0.310	1.49	1.00	217.98	1.043	0.106	4.00														
52.480	29.8501	0.0972129	0.5702337	6	45.9	5.8	0.5	0.21653	206.7	201.7	0.328	1.52	1.00	206.73	0.902	0.106	4.00														
52.500	29.5252	0.0980561	0.5806864	6	45.7	6.0	0.5	0.21673	204.5	199.5	0.334	1.53	1.00	204.50	0.875	0.106	4.00														
52.520	29.1393	0.102824	0.5432525	6	45.7	6.3	0.5	0.21693	201.5	196.5	0.355	1.55	1.00	201.53	0.841	0.106	4.00														
52.540	28.1636	0.1046903	0.5481189	6	44.9	6.7	0.5	0.21713	194.8	189.8	0.374	1.57	1.00	194.85	0.768	0.106	4.00														
52.560	28.4507	0.101863	0.5409776	6	45.0	6.5	0.5	0.21733	196.7	191.6	0.361	1.56	1.00	196.66	0.787	0.106	4.00														
52.580	29.4153	0.1026008	0.5641291	6	46.0	6.2	0.5	0.21753	203.3	198.2	0.351	1.54	1.00	203.27	0.861	0.106	4.00														
52.600	30.2424	0.0972315	0.5618382	6	46.4	5.8	0.5	0.21773	208.9	203.9	0.323	1.52	1.00	208.90	0.928	0.106	4.00														

CPT Verileri		Pa(MPa)										0.1										E Bölgesi			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı								
52.820	31.5939	0.0957496	0.5760215	6	47.5	5.3	0.5	0.21793	217.9	212.9	0.305	1.49	1.00	217.92	1.042	0.106	4.47								
52.840	32.1265	0.0908639	0.5754456	6	47.5	5.0	0.5	0.21813	221.4	216.4	0.284	1.47	1.00	221.42	1.090	0.106	4.00								
52.860	32.4404	0.0796229	0.5622862	6	46.5	4.6	0.5	0.21893	223.4	218.3	0.247	1.44	1.00	223.35	1.116	0.106	4.00								
52.880	32.0158	0.0739249	0.5525533	6	45.5	4.5	0.5	0.21853	220.3	215.3	0.232	1.43	1.00	220.31	1.074	0.106	4.00								
52.700	30.9008	0.0713952	0.5389044	6	44.3	4.7	0.5	0.21873	212.6	207.6	0.233	1.45	1.00	212.63	0.974	0.106	4.00								
52.720	30.1972	0.0740613	0.6009871	6	44.1	5.0	0.5	0.21893	208.1	203.1	0.246	1.47	1.00	208.15	0.919	0.106	4.00								
52.740	30.6985	0.0792323	0.5810895	6	45.1	5.0	0.5	0.21913	211.3	206.3	0.259	1.47	1.00	211.31	0.957	0.106	4.00								
52.760	31.2579	0.0881978	0.5681028	6	46.5	5.2	0.5	0.21933	214.9	209.9	0.284	1.48	1.00	214.90	1.003	0.106	4.00								
52.780	32.5733	0.0684334	0.5675269	6	47.7	4.9	0.5	0.21953	223.7	218.6	0.273	1.46	1.00	223.67	1.121	0.106	4.00								
52.800	33.3155	0.0891402	0.5902176	6	48.5	4.7	0.5	0.21973	228.7	223.7	0.269	1.45	1.00	228.73	1.193	0.106	4.00								
52.820	33.5629	0.0908515	0.5831052	6	48.9	4.7	0.5	0.21993	230.2	225.2	0.272	1.45	1.00	230.25	1.215	0.106	4.00								
52.840	33.3903	0.0873173	0.5636971	6	48.4	4.6	0.5	0.22013	228.9	223.8	0.263	1.44	1.00	228.85	1.195	0.106	4.00								
52.860	32.2678	0.1011686	0.5892098	6	48.6	5.0	0.5	0.22033	224.6	219.6	0.291	1.47	1.00	224.61	1.134	0.106	4.00								
52.880	31.7613	0.1100721	0.5459304	6	49.2	5.8	0.5	0.22073	217.6	212.5	0.349	1.52	1.00	217.59	1.088	0.106	4.00								
52.920	30.0809	0.1091048	0.5270695	6	47.5	6.3	0.5	0.22093	205.9	200.9	0.365	1.55	1.00	205.92	0.892	0.106	4.00								
52.940	29.0202	0.1161235	0.5288836	6	47.0	7.0	0.5	0.22113	198.7	193.7	0.403	1.59	1.00	198.71	0.810	0.106	4.00								
52.960	26.802	0.1258206	0.5518335	6	45.5	8.3	0.5	0.22133	183.9	178.8	0.473	1.65	1.01	184.90	0.668	0.106	3.57								
53.000	26.862	0.1020242	0.6093089	6	43.8	7.3	0.5	0.22173	184.5	179.4	0.382	1.60	1.00	184.49	0.664	0.106	3.55								
53.020	29.5187	0.0967478	0.6062566	6	46.0	6.1	0.5	0.22193	202.2	197.2	0.329	1.54	1.00	202.22	0.849	0.106	4.00								
53.040	29.6332	0.1014538	0.5950866	6	46.5	6.2	0.5	0.22213	202.8	197.8	0.344	1.55	1.00	202.65	0.856	0.106	4.00								
53.060	28.4008	0.1217842	0.5828946	6	47.0	7.4	0.5	0.22233	194.4	189.3	0.431	1.61	1.00	194.38	0.763	0.106	4.00								
53.080	27.8885	0.1186159	0.5736891	6	46.2	7.5	0.5	0.22253	190.8	185.7	0.428	1.62	1.00	190.80	0.726	0.106	3.89								
53.100	27.1518	0.1168513	0.5681316	6	45.3	7.8	0.5	0.22273	185.7	180.7	0.432	1.63	1.00	185.74	0.676	0.106	3.62								
53.120	26.6977	0.1169853	0.5580245	6	44.8	8.0	0.5	0.22293	182.5	177.5	0.441	1.64	1.00	182.01	0.641	0.106	3.43								
53.140	26.3164	0.1200482	0.5395954	6	44.6	8.3	0.5	0.22313	179.8	174.7	0.460	1.66	1.01	181.23	0.634	0.106	3.40								
53.160	24.9133	0.1220756	0.536428	6	43.2	9.2	0.5	0.22333	170.3	165.2	0.494	1.69	1.03	176.06	0.588	0.106	3.15								
53.180	23.7464	0.1204822	0.5351034	6	41.8	9.8	0.5	0.22353	162.4	157.4	0.512	1.72	1.05	170.79	0.543	0.106	2.91								
53.200	22.6562	0.1051801	0.5175094	6	39.5	9.7	0.5	0.22373	154.9	149.9	0.469	1.72	1.05	162.71	0.481	0.106	2.58								
53.220	21.6094	0.0898532	0.4923999	6	37.1	9.6	0.5	0.22393	147.7	142.6	0.421	1.71	1.05	154.61	0.424	0.106	2.27								
53.260	20.3733	0.0924449	0.5773461	6	36.0	10.6	0.5	0.22433	139.9	134.8	0.458	1.75	1.07	150.18	0.395	0.106	2.12								
53.280	21.2457	0.0923891	0.5790738	6	37.0	9.9	0.5	0.22453	145.7	140.6	0.439	1.73	1.06	153.91	0.419	0.106	2.25								
53.300	22.4107	0.0914157	0.5769142	6	38.3	9.2	0.5	0.22473	153.3	148.3	0.411	1.69	1.03	158.55	0.451	0.106	2.42								
53.320	23.4889	0.127011	0.5734012	6	42.0	10.3	0.5	0.22493	160.4	155.4	0.545	1.74	1.07	170.93	0.544	0.106	2.93								
53.340	26.0219	0.1414079	0.5797073	6	46.0	9.4	0.5	0.22513	177.3	172.2	0.547	1.70	1.04	184.58	0.665	0.106	3.58								
53.360	26.9967	0.1466098	0.5913118	6	47.5	9.1	0.5	0.22533	183.8	178.7	0.546	1.69	1.03	189.67	0.715	0.106	3.84								
53.380	28.0768	0.1378303	0.5873957	6	48.1	8.3	0.5	0.22553	190.9	185.8	0.494	1.65	1.01	191.91	0.737	0.106	3.97								
53.400	29.3295	0.1347736	0.5929532	6	49.3	7.6	0.5	0.22573	199.2	194.1	0.462	1.62	1.00	199.16	0.815	0.106	4.00								

CPT Verileri		Pa(MPa)										E Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1M)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı				
					0.1											110	4.47				
53.420	30.1344	0.1355983	0.601131	6	50.2	7.3	0.5	0.22593	204.5	199.4	0.452	1.61	1.00	204.48	0.875	0.106	4.00				
53.440	30.3108	0.1321386	0.5937019	6	50.1	7.2	0.5	0.22613	205.5	200.5	0.438	1.60	1.00	205.51	0.887	0.106	4.00				
53.460	30.3403	0.1261802	0.4920256	6	49.6	7.0	0.5	0.22633	204.9	199.9	0.420	1.59	1.00	204.94	0.881	0.106	4.00				
53.480	29.3184	0.1248037	0.5298338	6	48.5	7.3	0.5	0.22653	198.3	193.3	0.429	1.61	1.00	198.32	0.805	0.106	4.00				
53.520	28.3805	0.108894	0.7208908	6	46.4	7.0	0.5	0.22693	193.2	188.1	0.384	1.59	1.00	193.18	0.750	0.106	4.00				
53.540	29.1033	0.0999161	0.5918014	6	46.2	6.5	0.5	0.22713	197.0	192.0	0.345	1.56	1.00	197.04	0.791	0.106	4.00				
53.560	29.4532	0.1009578	0.5854088	6	46.7	6.4	0.5	0.22733	199.2	194.2	0.345	1.56	1.00	199.23	0.815	0.106	4.00				
53.580	31.6705	0.0919179	0.4632015	6	47.8	5.4	0.5	0.22753	213.0	208.0	0.293	1.50	1.00	213.03	0.979	0.106	4.00				
53.600	32.6213	0.0894936	0.4198645	6	48.4	5.1	0.5	0.22773	219.0	213.9	0.277	1.48	1.00	218.95	1.056	0.106	4.00				
53.620	32.9924	0.0984157	0.4864393	6	49.8	5.3	0.5	0.22793	221.8	216.7	0.301	1.49	1.00	221.75	1.094	0.106	4.00				
53.640	33.13	0.0983457	0.5132477	6	50.0	5.3	0.5	0.22813	222.7	217.7	0.302	1.49	1.00	222.74	1.108	0.106	4.00				
53.660	32.9795	0.1031588	0.5437996	6	50.3	5.4	0.5	0.22833	221.9	216.8	0.315	1.50	1.00	221.85	1.095	0.106	4.00				
53.680	33.0257	0.1170101	0.6029739	6	51.8	5.8	0.5	0.22853	222.5	217.4	0.356	1.52	1.00	222.45	1.104	0.106	4.00				
53.700	33.2583	0.1098427	0.5776341	6	51.3	5.6	0.5	0.22873	223.7	218.7	0.332	1.51	1.00	223.73	1.121	0.106	4.00				
53.720	33.7448	0.1064574	0.5761079	6	51.4	5.3	0.5	0.22893	226.8	221.8	0.317	1.49	1.00	226.83	1.165	0.106	4.00				
53.740	35.5246	0.1152244	0.6140601	6	54.0	5.1	0.5	0.22913	238.7	233.7	0.326	1.48	1.00	238.74	1.346	0.106	4.00				
53.760	37.8758	0.115832	0.618725	6	56.2	4.6	0.5	0.22933	254.2	249.1	0.307	1.44	1.00	254.20	1.608	0.106	4.00				
53.800	35.8717	0.1171899	0.6626794	6	54.6	5.1	0.5	0.22973	241.2	236.1	0.327	1.47	1.00	241.17	1.385	0.106	4.00				
53.820	37.8158	0.1303157	0.6688864	6	57.7	5.0	0.5	0.22993	253.8	248.7	0.346	1.47	1.00	253.80	1.600	0.106	4.00				
53.840	36.6268	0.146709	0.616047	6	58.1	5.7	0.5	0.23013	245.5	240.4	0.402	1.51	1.00	245.50	1.456	0.106	4.00				
53.860	35.7036	0.1493069	0.6110654	6	57.4	6.0	0.5	0.23033	239.3	234.2	0.420	1.53	1.00	239.28	1.354	0.106	4.00				
53.880	35.3095	0.1505965	0.5708672	6	57.1	6.2	0.5	0.23053	236.3	231.2	0.429	1.54	1.00	236.32	1.307	0.106	4.00				
53.900	33.0737	0.1571315	0.4902403	6	55.2	7.1	0.5	0.23073	221.0	215.9	0.479	1.60	1.00	220.96	1.083	0.106	4.00				
53.920	31.6696	0.1571253	0.4706307	6	53.7	7.6	0.5	0.23093	211.5	206.4	0.501	1.62	1.00	211.50	0.950	0.106	4.00				
53.940	29.4679	0.1714478	0.494502	6	52.3	9.0	0.5	0.23113	197.1	192.0	0.587	1.69	1.03	203.00	0.858	0.106	4.00				
53.960	28.7821	0.1701272	0.5124703	6	51.4	9.3	0.5	0.23133	192.6	187.5	0.596	1.70	1.04	200.01	0.824	0.106	4.00				
53.980	28.5707	0.1641502	0.5457289	6	50.8	9.2	0.5	0.23153	191.4	186.3	0.579	1.70	1.04	198.07	0.803	0.106	4.00				
54.000	29.3369	0.1336762	0.5625741	6	49.6	7.8	0.5	0.23173	196.4	191.3	0.459	1.63	1.00	196.41	0.785	0.106	4.00				
54.020	29.2806	0.1193104	0.5419567	6	48.4	7.3	0.5	0.23193	195.8	190.8	0.411	1.61	1.00	195.82	0.778	0.106	4.00				
54.040	28.7304	0.0883156	0.5356505	6	46.1	6.4	0.5	0.23213	192.1	187.0	0.310	1.55	1.00	192.09	0.739	0.106	4.00				
54.060	26.0699	0.0820782	0.5950578	6	41.9	7.1	0.5	0.23233	175.0	169.9	0.317	1.60	1.00	174.97	0.578	0.106	3.14				
54.080	25.6564	0.0679107	0.5441451	6	40.1	6.7	0.5	0.23253	171.8	166.7	0.267	1.57	1.00	171.82	0.552	0.106	3.00				
54.100	25.6115	0.0731127	0.5517759	6	40.8	6.8	0.5	0.23273	172.8	167.7	0.286	1.58	1.00	172.81	0.560	0.106	3.05				
54.120	27.2829	0.07688514	0.5488675	6	42.6	6.4	0.5	0.23293	182.4	177.3	0.284	1.56	1.00	182.36	0.544	0.106	3.50				
54.140	27.9577	0.108181	0.3874986	6	46.0	7.5	0.5	0.23313	185.6	180.6	0.392	1.62	1.00	185.64	0.675	0.106	3.67				
54.160	28.0546	0.1516196	0.0868179	6	49.0	9.3	0.5	0.23333	184.2	179.2	0.554	1.70	1.04	191.22	0.730	0.106	3.98				
54.180	27.8746	0.1495177	0.0537033	6	48.6	9.3	0.5	0.23353	182.8	177.7	0.551	1.70	1.04	189.89	0.717	0.106	3.90				
54.200	27.7666	0.1349658	0.0366433	6	47.5	8.8	0.5	0.23373	181.9	176.8	0.499	1.68	1.02	186.30	0.681	0.106	3.71				

CPT Verileri										Pa(MPa)										0.1										E Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı																						
54.220	27.1721	0.1178947	0.005903	6	45.5	8.5	0.5	0.23393	177.7	172.6	0.446	1.66	1.01	179.91	0.822	0.106	4.47																						
54.240	26.6663	0.1066372	-0.0067381	6	44.1	8.3	0.5	0.23413	174.2	169.2	0.412	1.65	1.01	175.16	0.580	0.106	3.16																						
54.260	26.2601	0.0944848	-0.0085522	6	42.7	7.9	0.5	0.23433	171.5	166.4	0.371	1.64	1.00	171.49	0.549	0.106	2.99																						
54.280	27.234	0.0897974	-0.0043769	6	43.3	7.3	0.5	0.23453	177.8	172.7	0.339	1.60	1.00	177.80	0.803	0.106	3.29																						
54.320	27.2885	0.0546237	0.5041484	6	40.4	5.6	0.5	0.23493	181.3	176.2	0.202	1.50	1.00	181.33	0.834	0.106	3.46																						
54.340	30.3191	0.0581826	0.3951869	6	43.5	4.9	0.5	0.23513	200.3	195.2	0.194	1.46	1.00	200.30	0.827	0.106	4.00																						
54.360	32.1275	0.0603899	0.400802	6	45.4	4.5	0.5	0.23533	212.0	207.0	0.190	1.43	1.00	212.04	0.967	0.106	4.00																						
54.380	33.5555	0.0654307	0.3168925	6	47.1	4.4	0.5	0.23553	220.7	215.6	0.198	1.42	1.00	220.71	1.080	0.106	4.00																						
54.400	36.2935	0.0913847	0.1597852	6	52.4	4.6	0.5	0.23573	237.4	232.3	0.256	1.44	1.00	237.43	1.325	0.106	4.00																						
54.420	39.6491	0.0892952	0.1684814	6	55.0	3.9	0.5	0.23593	258.2	254.1	0.229	1.38	1.00	258.23	1.700	0.106	4.00																						
54.440	41.6993	0.0638	0.1716489	7	53.4	3.0	0.5	0.23613	272.5	267.4	0.155	1.30	1.00	272.48	1.961	0.106	4.00																						
54.460	43.4542	0.0664865	0.223826	6	57.7	3.2	0.5	0.23633	284.1	279.0	0.202	1.32	1.00	284.12	2.213	0.106	4.00																						
54.480	45.2515	0.0833058	0.3109894	7	58.7	2.9	0.5	0.23653	296.3	291.2	0.186	1.29	1.00	296.25	2.498	0.106	4.00																						
54.500	46.927	0.0902066	0.3673707	7	60.9	2.8	0.5	0.23673	307.4	302.3	0.194	1.28	1.00	307.39	2.781	0.106	4.00																						
54.520	47.7781	0.1367205	0.5300642	6	67.5	3.5	0.5	0.23693	313.8	308.8	0.288	1.35	1.00	313.84	2.955	0.106	4.00																						
54.540	47.3285	0.1695443	0.5896993	6	70.8	4.2	0.5	0.23713	311.2	306.1	0.360	1.41	1.00	311.18	2.882	0.106	4.00																						
54.560	47.4421	0.1915798	0.6016206	6	73.1	4.5	0.5	0.23733	311.9	306.8	0.405	1.43	1.00	311.86	2.901	0.106	4.00																						
54.600	46.6464	0.1859439	0.7846436	6	72.1	4.6	0.5	0.23773	307.6	302.5	0.399	1.44	1.00	307.62	2.787	0.106	4.00																						
54.620	49.1794	0.1953061	0.6263269	6	75.2	4.3	0.5	0.23793	322.9	317.8	0.398	1.42	1.00	322.89	3.211	0.106	4.00																						
54.640	47.167	0.2150476	0.5805424	6	75.1	5.0	0.5	0.23813	308.4	304.3	0.458	1.47	1.00	308.42	2.835	0.106	4.00																						
54.660	43.9213	0.2256561	0.4931774	6	72.7	5.9	0.5	0.23833	287.7	282.6	0.517	1.53	1.00	287.70	2.295	0.106	4.00																						
54.680	39.5882	0.2262079	0.3522243	6	67.9	7.1	0.5	0.23853	258.6	253.5	0.578	1.59	1.00	258.61	1.688	0.106	4.00																						
54.700	35.9723	0.2424338	0.3239185	6	64.8	8.7	0.5	0.23873	234.9	229.8	0.683	1.67	1.02	239.29	1.354	0.106	4.00																						

CPT Verileri													F BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
45.310	16.2645	0.0422729	0.4645261	6	23.7	7.0	0.5	0.15483	134.4	129.5	0.262	1.59	1.00	134.44	0.306	105	2.81
45.330	16.2405	0.0517592	0.4576152	6	24.6	7.7	0.5	0.15503	134.1	129.1	0.322	1.63	1.00	134.11	0.304	0.105	1.46
45.350	15.6931	0.0441144	0.4513954	6	23.4	7.5	0.5	0.15523	129.6	124.6	0.284	1.62	1.00	129.58	0.282	0.105	1.35
45.370	15.4679	0.0372322	0.4477086	6	22.5	7.1	0.5	0.15543	127.7	122.7	0.243	1.60	1.00	127.66	0.273	0.105	1.31
45.390	14.8549	0.0377468	0.4637774	6	22.1	7.6	0.5	0.15563	122.8	117.8	0.287	1.62	1.00	122.79	0.262	0.105	1.21
45.410	14.4746	0.0407787	0.4632303	6	22.0	8.2	0.5	0.15583	119.7	114.7	0.285	1.65	1.00	120.14	0.241	0.105	1.15
45.430	14.6703	0.0498	0.4700548	6	23.0	8.8	0.5	0.15603	121.2	116.2	0.343	1.66	1.02	124.19	0.256	0.105	1.24
45.450	14.5484	0.0499736	0.471005	6	22.9	9.0	0.5	0.15623	120.2	115.2	0.347	1.69	1.03	123.62	0.266	0.105	1.22
45.470	15.598	0.038776	0.4666569	6	22.9	7.2	0.5	0.15643	128.4	123.5	0.251	1.60	1.00	128.44	0.277	0.105	1.33
45.490	16.0503	0.0321046	0.467492	6	22.6	6.4	0.5	0.15663	132.0	127.0	0.202	1.55	1.00	131.98	0.294	0.104	1.41
45.510	17.7904	0.0197662	0.4655051	6	22.8	4.7	0.5	0.15683	145.6	140.6	0.112	1.44	1.00	145.78	0.368	0.104	1.76
45.530	19.0007	0.0252879	0.4678375	6	24.2	4.4	0.5	0.15703	155.4	150.4	0.124	1.43	1.00	155.36	0.429	0.104	2.05
45.550	20.2423	0.0338345	0.4619921	6	26.3	4.6	0.5	0.15723	165.1	160.2	0.168	1.43	1.00	165.12	0.499	0.104	2.39
45.570	20.5727	0.0321108	0.4250477	6	26.4	4.4	0.5	0.15743	167.4	162.4	0.158	1.42	1.00	167.35	0.516	0.104	2.47
45.590	20.6493	0.0389978	0.4600675	6	27.2	4.7	0.5	0.15763	168.1	163.2	0.187	1.44	1.00	168.14	0.522	0.104	2.50
45.610	19.4724	0.0486543	0.4731934	6	27.3	5.7	0.5	0.15783	168.8	153.8	0.262	1.52	1.00	158.76	0.462	0.104	2.17
45.630	19.7161	0.0554731	0.4469897	6	26.2	6.0	0.5	0.15803	160.4	155.4	0.284	1.53	1.00	160.39	0.464	0.104	2.22
45.650	21.2143	0.030319	0.4705155	6	26.8	4.1	0.5	0.15823	172.4	167.4	0.144	1.40	1.00	172.39	0.556	0.104	2.67
45.670	21.4359	0.0294013	0.4656491	6	26.8	4.0	0.5	0.15843	174.0	169.0	0.138	1.39	1.00	174.00	0.570	0.104	2.74
45.690	20.4593	0.0406657	0.4611282	6	27.4	4.9	0.5	0.15863	166.1	161.1	0.200	1.46	1.00	166.10	0.506	0.104	2.43
45.710	19.7115	0.0501472	0.4743741	6	27.8	5.7	0.5	0.15883	160.2	155.2	0.256	1.52	1.00	160.17	0.462	0.104	2.22
45.730	16.2091	0.0434138	0.4704867	6	24.0	7.3	0.5	0.15903	132.3	127.3	0.270	1.60	1.00	132.27	0.295	0.104	1.42
45.750	17.3603	0.0376972	0.4616481	6	24.5	6.2	0.5	0.15923	141.2	136.3	0.219	1.54	1.00	141.24	0.342	0.104	1.64
45.770	17.784	0.0444182	0.4706983	6	25.6	6.4	0.5	0.15943	144.3	139.6	0.252	1.56	1.00	144.57	0.361	0.104	1.74
45.790	18.1375	0.0529063	0.4680967	6	26.7	6.8	0.5	0.15963	147.3	142.3	0.294	1.58	1.00	147.26	0.377	0.104	1.81
45.810	18.841	0.0547725	0.4784342	6	27.5	6.5	0.5	0.15983	152.8	147.8	0.293	1.56	1.00	152.81	0.412	0.104	1.98
45.830	20.0872	0.0547229	0.4714865	6	28.6	5.9	0.5	0.16003	162.6	157.6	0.274	1.52	1.00	162.99	0.480	0.104	2.31
45.850	22.0848	0.0677681	0.4684681	6	31.6	5.7	0.5	0.16023	178.3	173.3	0.309	1.51	1.00	178.31	0.607	0.104	2.92
45.870	26.0099	0.1107603	0.4982166	6	38.9	5.8	0.5	0.16043	209.3	204.3	0.428	1.52	1.00	209.28	0.932	0.104	4.00
45.890	29.3978	0.2006507	0.3445648	6	48.4	7.4	0.5	0.16063	234.7	229.7	0.689	1.61	1.00	234.67	1.282	0.104	4.00
45.910	23.0615	0.2905163	0.7060324	6	45.5	13.6	0.5	0.16083	187.4	182.4	1.286	1.86	1.15	216.20	1.020	0.104	4.00
45.930	21.4608	0.4365274	0.4850859	6	47.1	20.0	0.5	0.16103	172.9	168.0	2.057	2.04	1.36	234.94	1.286	0.104	4.00
45.950	21.7339	0.3578133	0.061766	6	44.9	17.6	0.5	0.16123	172.0	167.1	1.687	1.98	1.27	219.21	1.060	0.104	4.00
45.970	23.1326	0.3478809	0.1238775	6	46.7	15.9	0.5	0.16143	183.0	178.1	1.537	1.93	1.22	223.30	1.115	0.104	4.00
45.990	23.7243	0.3247476	0.2577181	6	47.0	14.5	0.5	0.16163	188.6	183.7	1.391	1.89	1.18	222.65	1.106	0.104	4.00
47.010	22.6525	0.1869075	0.5307553	6	40.5	10.5	0.5	0.16183	182.2	177.3	0.838	1.75	1.07	195.36	0.773	0.104	3.73
47.030	24.1138	0.0871065	0.4566073	6	35.3	5.8	0.5	0.16203	193.0	188.1	0.364	1.52	1.00	193.03	0.749	0.104	3.61
47.050	24.9816	0.0005704	0.4516273	6	51.3	15.3	0.5	0.16223	199.7	194.7	0.002	1.91	1.20	240.14	1.368	0.104	4.00
47.070	25.1383	0.0456534	0.4288775	6	31.8	3.8	0.5	0.16243	201.0	196.0	0.183	1.37	1.00	201.00	0.835	0.104	4.00
47.090	24.6179	0.0457636	0.4558296	6	31.5	3.9	0.5	0.16263	196.6	191.6	0.187	1.36	1.00	196.62	0.787	0.104	3.80
47.110	23.4803	0.0405121	0.4286895	6	30.0	4.0	0.5	0.16283	187.2	182.2	0.174	1.39	1.00	187.21	0.690	0.104	3.33

CPT Verileri													F BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																105	2.81
47.130	22.8242	0.030908	0.362365	6	28.4	3.8	0.5	0.16303	181.8	176.9	0.137	1.38	1.00	181.83	0.639	0.104	3.09
47.150	22.8258	0.0324064	0.4213619	6	28.4	3.9	0.5	0.16323	180.4	175.4	0.145	1.39	1.00	180.39	0.826	0.104	3.02
47.170	21.1383	0.0372322	0.4048046	6	28.6	4.3	0.5	0.16343	178.3	171.4	0.170	1.42	1.00	176.34	0.590	0.104	2.85
47.190	21.2614	0.0368416	0.4347517	6	27.9	4.6	0.5	0.16383	169.6	164.6	0.175	1.44	1.00	169.61	0.534	0.104	2.58
47.210	21.0334	0.0333757	0.3697895	6	27.3	4.5	0.5	0.16383	167.2	162.2	0.161	1.43	1.00	167.22	0.515	0.104	2.49
47.230	21.3011	0.0351241	0.3873546	6	27.8	4.5	0.5	0.16403	169.3	164.4	0.167	1.43	1.00	169.34	0.532	0.104	2.57
47.250	20.7601	0.0327122	0.3977785	6	27.1	4.6	0.5	0.16423	165.1	160.1	0.159	1.44	1.00	165.10	0.499	0.104	2.41
47.290	19.4244	0.037877	0.4711149	6	26.7	5.4	0.5	0.16463	155.1	150.1	0.197	1.49	1.00	155.06	0.427	0.104	2.06
47.310	18.9685	0.0381622	0.4798724	6	26.3	5.6	0.5	0.16483	151.5	146.5	0.203	1.51	1.00	151.47	0.403	0.104	1.95
47.330	18.7809	0.0341363	0.4500708	6	25.7	5.5	0.5	0.16503	149.7	144.7	0.184	1.50	1.00	149.70	0.392	0.104	1.90
47.350	18.4209	0.0337601	0.4508195	6	25.4	5.6	0.5	0.16523	146.8	141.8	0.185	1.51	1.00	146.81	0.374	0.104	1.81
47.370	18.1809	0.0306846	0.44244	6	24.9	5.5	0.5	0.16543	144.8	139.8	0.171	1.50	1.00	144.79	0.362	0.104	1.75
47.390	17.9538	0.031869	0.4575288	6	24.8	5.7	0.5	0.16563	143.1	138.1	0.179	1.52	1.00	143.06	0.352	0.104	1.71
47.410	18.6886	0.031931	0.4505603	6	25.5	5.4	0.5	0.16583	148.6	143.7	0.173	1.49	1.00	148.62	0.385	0.104	1.87
47.430	19.2416	0.0320302	0.4630663	6	26.0	5.2	0.5	0.16603	152.9	148.0	0.168	1.48	1.00	152.92	0.413	0.104	2.00
47.450	20.0355	0.0347831	0.4545629	6	26.9	5.0	0.5	0.16623	159.9	154.0	0.175	1.47	1.00	159.92	0.453	0.104	2.20
47.470	20.1915	0.0565272	0.3664492	6	29.3	6.2	0.5	0.16643	162.0	157.0	0.226	1.50	1.00	161.97	0.476	0.104	2.30
47.490	20.1915	0.0565272	0.3664492	6	29.3	6.2	0.5	0.16663	159.3	154.3	0.226	1.50	1.00	159.26	0.456	0.104	2.21
47.510	18.7754	0.0472393	0.4087783	6	27.1	6.4	0.5	0.16683	148.5	143.6	0.255	1.56	1.00	148.53	0.385	0.104	1.87
47.530	18.1421	0.0383854	0.4285319	6	25.7	6.1	0.5	0.16703	143.7	138.7	0.214	1.54	1.00	143.69	0.356	0.104	1.73
47.570	16.2137	0.0302684	0.4717825	6	23.2	6.6	0.5	0.16743	129.0	124.0	0.189	1.57	1.00	128.95	0.279	0.104	1.36
47.590	15.4842	0.0261896	0.4589398	6	22.1	6.8	0.5	0.16763	123.0	118.0	0.171	1.58	1.00	122.99	0.253	0.104	1.23
47.610	14.9675	0.0286263	0.460034	6	21.9	7.3	0.5	0.16783	119.1	114.1	0.194	1.61	1.00	119.09	0.237	0.104	1.15
47.630	15.3515	0.033233	0.4739997	6	22.8	7.5	0.5	0.16803	122.1	117.1	0.219	1.61	1.00	122.09	0.249	0.104	1.21
47.650	15.6063	0.0372352	0.4727327	6	23.4	7.7	0.5	0.16823	124.0	119.0	0.242	1.62	1.00	123.97	0.257	0.104	1.25
47.670	15.7097	0.0374306	0.475929	6	23.5	7.6	0.5	0.16843	124.7	119.7	0.241	1.62	1.00	124.72	0.260	0.104	1.27
47.690	15.1365	0.0495396	0.4542173	6	24.0	9.1	0.5	0.16863	120.1	115.1	0.331	1.69	1.03	124.03	0.257	0.104	1.25
47.710	14.3915	0.0522862	0.4704687	6	23.5	10.1	0.5	0.16883	114.4	109.4	0.368	1.73	1.06	121.25	0.246	0.104	1.19
47.730	13.7379	0.0502526	0.4370265	6	22.6	10.6	0.5	0.16903	109.0	104.1	0.371	1.75	1.07	117.17	0.230	0.104	1.12
47.750	13.6013	0.046024	0.3911844	6	22.1	10.4	0.5	0.16923	107.6	102.6	0.345	1.75	1.07	114.98	0.221	0.104	1.08
47.770	14.0019	0.0408965	0.3463213	6	22.1	9.5	0.5	0.16943	110.2	105.3	0.298	1.71	1.04	115.13	0.222	0.104	1.08
47.790	15.3146	0.0404625	0.3341121	6	23.4	8.3	0.5	0.16963	120.2	115.2	0.270	1.66	1.01	121.12	0.245	0.103	1.19
47.830	16.5008	0.0376414	0.4447437	6	24.4	7.2	0.5	0.17003	130.0	125.0	0.231	1.60	1.00	129.95	0.284	0.103	1.38
47.850	16.0023	0.0290293	0.426545	6	23.0	6.8	0.5	0.17023	125.9	120.9	0.184	1.58	1.00	125.92	0.266	0.103	1.29
47.870	15.9185	0.0246706	0.420642	6	22.5	6.5	0.5	0.17043	125.1	120.2	0.157	1.56	1.00	125.14	0.262	0.103	1.28
47.890	16.7122	0.0267042	0.4460663	6	23.5	6.2	0.5	0.17063	131.4	126.4	0.162	1.55	1.00	131.35	0.291	0.103	1.42
47.910	16.991	0.0323858	0.4582199	6	24.3	6.5	0.5	0.17083	133.5	128.5	0.193	1.56	1.00	133.50	0.301	0.103	1.47
47.930	16.6135	0.0489567	0.4339166	6	25.6	8.0	0.5	0.17103	130.4	125.4	0.299	1.64	1.00	130.10	0.285	0.103	1.39
47.950	16.3254	0.0516662	0.4052941	6	25.5	8.5	0.5	0.17123	127.9	122.9	0.321	1.66	1.01	129.58	0.282	0.103	1.38
47.970	15.7143	0.0408407	0.446385	6	24.0	8.1	0.5	0.17143	123.4	118.5	0.263	1.64	1.00	123.26	0.254	0.103	1.24
47.990	15.4319	0.0363703	0.4693349	6	23.3	7.9	0.5	0.17163	121.4	116.4	0.238	1.63	1.00	121.38	0.246	0.103	1.20

CPT Verileri													F BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																105	2.81
48.010	15.5583	0.0387656	0.4785782	6	23.7	8.0	0.5	0.17183	122.3	117.4	0.252	1.64	1.00	121.89	0.248	0.103	1.21
48.030	16.1768	0.0442508	0.4767065	6	24.8	8.0	0.5	0.17203	127.0	122.0	0.277	1.64	1.00	126.56	0.269	0.103	1.31
48.050	16.8876	0.0458504	0.474806	6	25.7	7.6	0.5	0.17223	132.3	127.3	0.274	1.62	1.00	132.30	0.295	0.103	1.44
48.070	18.4015	0.0474687	0.4756986	6	27.2	6.8	0.5	0.17243	143.8	138.8	0.260	1.58	1.00	143.76	0.356	0.103	1.74
48.110	18.0775	0.0426387	0.4591125	6	26.5	6.7	0.5	0.17283	141.0	136.0	0.238	1.57	1.00	141.00	0.341	0.103	1.66
48.130	17.7735	0.0413491	0.456233	6	26.1	6.8	0.5	0.17303	138.3	133.3	0.236	1.58	1.00	136.29	0.326	0.103	1.59
48.150	16.7602	0.0450994	0.4553404	6	25.5	7.7	0.5	0.17323	130.8	125.8	0.272	1.63	1.00	130.80	0.288	0.103	1.41
48.170	16.5433	0.0629072	0.4799891	6	26.8	9.2	0.5	0.17343	129.3	124.3	0.384	1.70	1.04	133.98	0.304	0.103	1.48
48.190	17.0298	0.070862	0.4894838	6	28.0	9.4	0.5	0.17363	132.9	128.0	0.420	1.71	1.04	136.50	0.327	0.103	1.60
48.210	18.7606	0.0677681	0.4871592	6	29.5	8.0	0.5	0.17383	146.0	141.0	0.365	1.64	1.00	145.99	0.369	0.103	1.81
48.230	19.6478	0.0561428	0.4898083	6	29.3	6.7	0.5	0.17403	152.6	147.7	0.288	1.58	1.00	152.65	0.411	0.103	2.01
48.250	19.2314	0.0395758	0.467636	6	27.3	6.0	0.5	0.17423	149.2	144.3	0.208	1.53	1.00	149.24	0.389	0.103	1.90
48.270	17.6612	0.0351923	0.4649868	6	25.5	6.5	0.5	0.17443	137.2	132.3	0.201	1.56	1.00	137.24	0.320	0.103	1.57
48.290	16.6116	0.0300337	0.4607539	6	24.0	6.7	0.5	0.17463	129.2	124.2	0.183	1.57	1.00	129.19	0.281	0.103	1.37
48.310	16.3476	0.0301639	0.4551964	6	23.7	6.9	0.5	0.17483	127.1	122.1	0.187	1.58	1.00	127.08	0.271	0.103	1.33
48.330	16.4334	0.0281303	0.4779159	6	23.7	6.7	0.5	0.17503	127.8	122.9	0.173	1.57	1.00	127.83	0.274	0.103	1.34
48.370	14.9315	0.0348141	0.473251	6	22.9	8.3	0.5	0.17543	116.3	111.3	0.236	1.66	1.01	117.13	0.229	0.102	1.12
48.390	13.5487	0.037443	0.4768505	6	21.8	9.8	0.5	0.17563	105.8	100.9	0.280	1.72	1.05	111.48	0.209	0.102	1.02
48.410	12.8	0.0409213	0.4742589	6	21.3	11.1	0.5	0.17583	100.1	95.1	0.324	1.77	1.09	108.79	0.200	0.102	0.98
48.430	13.1287	0.0426687	0.4806514	6	21.8	10.9	0.5	0.17603	102.6	97.6	0.330	1.76	1.08	110.97	0.207	0.102	1.01
48.450	15.1263	0.0447282	0.4821776	6	24.0	9.1	0.5	0.17623	117.6	112.6	0.299	1.69	1.03	121.34	0.246	0.102	1.21
48.470	16.8405	0.0441052	0.4811985	6	25.7	7.7	0.5	0.17643	130.4	125.4	0.265	1.63	1.00	130.41	0.286	0.102	1.40
48.490	20.5303	0.0458124	0.4829839	6	29.3	5.8	0.5	0.17663	158.1	153.1	0.226	1.52	1.00	156.11	0.448	0.102	2.19
48.510	23.9394	0.0384906	0.4845964	6	31.3	4.2	0.5	0.17683	183.7	178.7	0.162	1.41	1.00	183.67	0.656	0.102	3.22
48.530	25.5705	0.0388814	0.485777	6	32.6	3.8	0.5	0.17703	195.8	190.9	0.153	1.37	1.00	195.83	0.778	0.102	3.82
48.550	27.138	0.0458628	0.4847116	6	34.7	3.7	0.5	0.17723	207.5	202.5	0.170	1.36	1.00	207.49	0.911	0.102	4.00
48.570	26.9506	0.057265	0.4739997	6	35.9	4.2	0.5	0.17743	205.9	200.9	0.214	1.40	1.00	205.89	0.892	0.102	4.00
48.590	25.9693	0.0608673	0.4920544	6	35.5	4.6	0.5	0.17763	198.5	193.6	0.236	1.44	1.00	196.54	0.808	0.102	3.97
48.610	24.5754	0.0640604	0.4619057	6	34.7	5.2	0.5	0.17783	187.8	182.8	0.263	1.48	1.00	187.75	0.696	0.102	3.41
48.630	22.0082	0.0696344	0.4753819	6	33.0	6.5	0.5	0.17803	168.4	163.4	0.319	1.56	1.00	168.41	0.524	0.102	2.67
48.670	21.4285	0.0750286	0.4702275	6	33.0	7.1	0.5	0.17843	163.9	159.0	0.353	1.59	1.00	163.94	0.490	0.102	2.41
48.690	20.9097	0.0833554	0.4898659	6	33.2	7.8	0.5	0.17863	160.1	155.1	0.402	1.63	1.00	160.11	0.462	0.102	2.27
48.710	20.4924	0.0715565	0.4777719	6	31.8	7.4	0.5	0.17883	156.8	151.8	0.352	1.61	1.00	156.81	0.439	0.102	2.16
48.730	20.1768	0.0644758	0.4763997	6	30.9	7.2	0.5	0.17903	154.3	149.4	0.323	1.60	1.00	154.35	0.422	0.102	2.07
48.750	20.7537	0.0645006	0.4755547	6	31.5	6.9	0.5	0.17923	158.6	153.6	0.314	1.58	1.00	158.57	0.451	0.102	2.22
48.770	21.3177	0.0615163	0.4683558	6	31.7	6.4	0.5	0.17943	162.6	157.7	0.291	1.56	1.00	162.64	0.480	0.102	2.36
48.790	21.7913	0.0507052	0.4734814	6	31.1	5.6	0.5	0.17963	166.1	161.1	0.235	1.51	1.00	166.12	0.506	0.102	2.49
48.810	20.9327	0.0458194	0.4714081	6	29.8	5.8	0.5	0.17983	159.6	154.6	0.221	1.52	1.00	159.61	0.458	0.102	2.25
48.830	20.3447	0.0468727	0.462712	6	29.4	6.1	0.5	0.18003	155.1	150.1	0.233	1.54	1.00	155.08	0.427	0.102	2.10
48.850	19.3127	0.0449638	0.4772248	6	28.3	6.5	0.5	0.18023	147.4	142.4	0.235	1.56	1.00	147.41	0.378	0.102	1.86
48.870	20.6272	0.0377592	0.4924287	6	28.8	5.4	0.5	0.18043	157.2	152.2	0.185	1.50	1.00	157.23	0.441	0.102	2.17

CPT Verileri														F BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı	
Dirençli	Koni Uç	Sürtünme	Boşluk													105	2.81	
	Katsayısı	Suyu Basıncı																
48.910	19.8093	0.0440214	0.4902979	6	28.7	6.2	0.5	0.18083	151.0	145.0	0.224	1.54	1.00	150.96	0.400	0.102	1.97	
48.930	24.7517	0.0483677	0.4945308	6	33.4	4.5	0.5	0.18103	187.6	182.7	0.197	1.43	1.00	187.64	0.694	0.102	3.42	
48.950	25.9047	0.0507796	0.4839341	6	34.6	4.3	0.5	0.18123	196.0	191.0	0.197	1.42	1.00	195.02	0.780	0.102	3.84	
48.970	27.0844	0.0633164	0.4976695	6	37.0	4.5	0.5	0.18143	204.8	199.8	0.235	1.43	1.00	204.77	0.879	0.102	4.00	
48.990	27.3789	0.0735281	0.4617041	6	38.4	4.8	0.5	0.18163	206.6	201.6	0.271	1.45	1.00	206.58	0.900	0.102	4.00	
49.010	26.3459	0.085742	0.4690181	6	39.1	5.7	0.5	0.18183	198.9	193.9	0.343	1.51	1.00	198.86	0.811	0.102	4.00	
49.030	25.7173	0.0794555	0.4803923	6	37.6	5.5	0.5	0.18203	194.2	189.2	0.311	1.50	1.00	194.17	0.761	0.102	3.75	
49.050	25.6055	0.0815202	0.4744892	6	37.7	5.7	0.5	0.18223	193.2	188.2	0.321	1.51	1.00	193.20	0.751	0.102	3.70	
49.070	25.0443	0.0750968	0.4754971	6	36.6	5.6	0.5	0.18243	188.9	184.0	0.302	1.51	1.00	188.94	0.707	0.102	3.49	
49.090	25.6536	0.077025	0.4871592	6	37.3	5.5	0.5	0.18263	193.4	188.4	0.302	1.50	1.00	193.43	0.753	0.102	3.72	
49.110	26.5638	0.0776636	0.4915937	6	38.2	5.2	0.5	0.18283	200.1	195.1	0.294	1.48	1.00	200.09	0.825	0.102	4.00	
49.130	25.8299	0.0903554	0.4767065	6	38.8	6.0	0.5	0.18303	194.4	189.5	0.353	1.53	1.00	194.45	0.764	0.102	3.77	
49.150	23.9855	0.098231	0.4648716	6	37.8	7.2	0.5	0.18323	180.6	175.6	0.420	1.60	1.00	180.63	0.628	0.102	3.10	
49.190	21.5291	0.101243	0.4792117	6	35.5	8.5	0.5	0.18363	162.4	157.4	0.475	1.67	1.01	164.83	0.497	0.102	2.45	
49.210	21.1848	0.087522	0.473683	6	34.1	8.1	0.5	0.18383	159.7	154.8	0.477	1.64	1.00	159.34	0.458	0.102	2.26	
49.230	22.4558	0.0865671	0.4789237	6	35.3	7.3	0.5	0.18403	169.1	164.1	0.389	1.61	1.00	169.07	0.529	0.102	2.62	
49.250	23.6227	0.085657	0.4923999	6	36.4	6.7	0.5	0.18423	177.7	172.7	0.365	1.57	1.00	177.67	0.602	0.102	2.97	
49.270	23.9837	0.0854077	0.4733086	6	36.7	6.6	0.5	0.18443	180.1	175.1	0.359	1.57	1.00	180.09	0.623	0.102	3.08	
49.290	23.607	0.0810614	0.4907874	6	36.0	6.5	0.5	0.18463	177.3	172.4	0.346	1.56	1.00	177.35	0.599	0.102	2.96	
49.310	23.4215	0.0752146	0.4829263	6	35.3	6.4	0.5	0.18483	175.8	170.8	0.324	1.55	1.00	175.83	0.586	0.102	2.89	
49.330	23.5156	0.0700312	0.4757562	6	34.9	6.1	0.5	0.18503	176.4	171.4	0.300	1.54	1.00	176.37	0.590	0.102	2.92	
49.350	23.4861	0.0655671	0.4825231	6	34.5	5.9	0.5	0.18523	176.1	171.1	0.282	1.53	1.00	176.11	0.588	0.102	2.91	
49.370	23.7612	0.064947	0.48929	6	34.7	5.8	0.5	0.18543	178.1	173.1	0.276	1.52	1.00	178.09	0.605	0.102	2.99	
49.390	24.4803	0.0662579	0.4822352	6	35.7	5.6	0.5	0.18563	183.2	178.2	0.281	1.51	1.00	183.22	0.652	0.102	3.23	
49.410	25.0988	0.0736645	0.483531	6	36.8	5.6	0.5	0.18583	187.7	182.7	0.286	1.51	1.00	187.66	0.695	0.102	3.44	
49.470	27.4038	0.0724059	0.4854315	6	38.7	4.9	0.5	0.18643	204.3	199.3	0.266	1.46	1.00	204.26	0.873	0.102	4.00	
49.490	28.4008	0.0747124	0.4821488	6	39.8	4.7	0.5	0.18663	211.4	206.4	0.265	1.44	1.00	211.42	0.959	0.102	4.00	
49.510	29.2658	0.0818426	0.3872106	6	41.2	4.7	0.5	0.18683	216.9	212.0	0.282	1.44	1.00	216.94	1.030	0.102	4.00	
49.530	30.3643	0.0862199	0.39081	6	42.6	4.5	0.5	0.18703	224.9	219.9	0.287	1.43	1.00	224.89	1.136	0.102	4.00	
49.550	31.472	0.0948134	0.3010262	6	44.3	4.6	0.5	0.18723	232.2	227.2	0.305	1.43	1.00	232.20	1.244	0.102	4.00	
49.570	33.2121	0.122057	0.042905	6	48.2	5.0	0.5	0.18743	242.9	237.9	0.375	1.46	1.00	242.91	1.413	0.102	4.00	
49.590	33.8703	0.1379171	-0.0252247	6	50.2	5.2	0.5	0.18763	247.1	242.1	0.416	1.48	1.00	247.08	1.483	0.102	4.00	
49.610	34.4602	0.1461696	-0.0510253	6	51.5	5.3	0.5	0.18783	251.1	246.1	0.433	1.49	1.00	251.07	1.552	0.102	4.00	
49.630	34.5581	0.140918	-0.0630905	6	51.1	5.1	0.5	0.18803	251.6	246.6	0.417	1.48	1.00	251.56	1.561	0.102	4.00	
49.650	34.1242	0.1283316	-0.0687632	6	49.8	4.9	0.5	0.18823	248.2	243.2	0.385	1.46	1.00	248.22	1.502	0.102	4.00	
49.670	33.9229	0.1183741	-0.0667475	6	48.5	4.7	0.5	0.18843	246.6	241.6	0.367	1.45	1.00	246.64	1.475	0.102	4.00	
49.690	32.5004	0.1076416	-0.0594911	6	46.3	4.8	0.5	0.18863	236.2	231.2	0.339	1.45	1.00	236.20	1.306	0.102	4.00	
49.750	30.3218	0.0882951	0.4788661	6	40.8	4.0	0.5	0.18923	223.9	218.9	0.227	1.39	1.00	223.91	1.124	0.102	4.00	
49.770	31.1813	0.0841924	0.4564634	6	43.3	4.3	0.5	0.18943	229.9	224.9	0.272	1.42	1.00	229.87	1.210	0.102	4.00	
49.790	32.8401	0.0858107	0.4417778	6	44.8	4.0	0.5	0.18963	241.7	236.7	0.263	1.39	1.00	241.69	1.393	0.102	4.00	
49.810	33.1355	0.0840312	0.4039983	6	44.8	3.9	0.5	0.18983	243.4	238.4	0.256	1.38	1.00	243.43	1.422	0.102	4.00	

CPT Verileri														F BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	σ^v0 [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Konu Uç Katsayısı	Sürtünme Katsayısı	Boşluk Suyu Basıncı			[%]					[%]					105	2.81
49.830	33.1771	0.0818914	0.3163898	6	44.6	3.9	0.5	0.19003	243.0	238.0	0.250	1.38	1.00	242.98	1.414	0.102	4.00
49.850	32.8183	0.0860242	0.415718	6	45.0	4.1	0.5	0.19023	240.9	235.9	0.271	1.40	1.00	235.9	1.381	0.102	4.00
49.870	31.5505	0.0897912	0.4001397	6	44.2	4.4	0.5	0.19043	231.5	226.5	0.287	1.43	1.00	231.53	1.234	0.102	4.00
49.890	30.5905	0.0815864	0.3606901	6	42.6	4.4	0.5	0.19063	224.2	219.2	0.270	1.43	1.00	224.17	1.128	0.102	4.00
49.910	30.2332	0.0818922	0.4090087	6	42.4	4.5	0.5	0.19083	221.8	216.8	0.273	1.43	1.00	221.82	1.095	0.102	4.00
49.930	30.3301	0.0793635	0.4471913	6	42.2	4.4	0.5	0.19103	222.7	217.7	0.264	1.43	1.00	222.68	1.107	0.102	4.00
49.950	30.6506	0.0776993	0.4834969	6	42.4	4.3	0.5	0.19123	225.2	220.2	0.256	1.41	1.00	225.24	1.143	0.102	4.00
50.150	11.2243	0.0277273	0.4730207	6	19.1	12.5	0.5	0.19323	84.1	79.2	0.252	1.82	1.12	94.51	0.159	0.102	0.79
50.170	13.1342	0.0313978	0.5057034	6	21.6	10.5	0.5	0.19343	98.1	93.1	0.243	1.75	1.07	105.24	0.188	0.101	0.94
50.190	13.8118	0.0341321	0.4975543	6	22.6	10.2	0.5	0.19363	102.8	97.8	0.251	1.74	1.06	109.30	0.201	0.101	1.01
50.210	14.5466	0.0397309	0.5001171	6	23.8	10.0	0.5	0.19383	108.1	103.1	0.277	1.73	1.06	114.51	0.220	0.101	1.10
50.230	14.9564	0.0396068	0.4875047	6	24.3	9.7	0.5	0.19403	110.9	105.9	0.269	1.72	1.05	116.31	0.226	0.101	1.13
50.250	16.3716	0.0427069	0.4957114	6	26.0	8.8	0.5	0.19423	121.0	116.0	0.264	1.68	1.02	123.73	0.256	0.101	1.28
50.270	17.7646	0.0383544	0.5002898	6	27.1	7.5	0.5	0.19443	131.0	126.0	0.218	1.61	1.00	130.99	0.289	0.101	1.45
50.290	18.5225	0.0350373	0.5006993	6	27.5	6.8	0.5	0.19463	136.4	131.4	0.191	1.58	1.00	136.36	0.316	0.101	1.58
50.310	18.7274	0.0350249	0.5070855	6	27.7	6.7	0.5	0.19483	137.8	132.8	0.189	1.57	1.00	137.80	0.323	0.101	1.62
50.330	19.2545	0.0388504	0.5048395	6	28.6	6.7	0.5	0.19503	141.5	136.5	0.204	1.57	1.00	141.49	0.343	0.101	1.72
50.350	19.4622	0.0434138	0.5020464	6	29.2	6.9	0.5	0.19523	142.9	137.9	0.225	1.58	1.00	142.88	0.351	0.101	1.76
50.370	19.5841	0.0513252	0.506674	6	30.2	7.3	0.5	0.19543	143.7	138.7	0.241	1.56	1.00	143.72	0.356	0.101	1.78
50.390	20.4223	0.0488513	0.5091588	6	30.7	6.7	0.5	0.19563	149.7	144.7	0.241	1.58	1.00	149.65	0.392	0.101	1.96
50.410	21.4543	0.0448894	0.5093028	6	31.3	6.0	0.5	0.19583	157.0	151.9	0.211	1.53	1.00	156.95	0.440	0.101	2.20
50.430	20.3549	0.0427565	0.5210862	6	30.2	6.4	0.5	0.19603	149.8	144.8	0.211	1.55	1.00	149.82	0.393	0.101	1.97
50.450	22.6045	0.0410887	0.4953658	6	31.9	5.4	0.5	0.19623	164.9	159.9	0.183	1.49	1.00	164.90	0.497	0.101	2.49
50.470	22.935	0.0442136	0.4833006	6	32.6	5.4	0.5	0.19643	167.1	162.1	0.195	1.50	1.00	167.09	0.514	0.101	2.58
50.490	23.3578	0.0399479	0.4834158	6	32.5	5.1	0.5	0.19663	170.0	165.0	0.173	1.47	1.00	170.02	0.537	0.101	2.70
50.510	24.1341	0.0454222	0.4823792	6	33.7	5.0	0.5	0.19683	175.5	170.5	0.186	1.47	1.00	175.46	0.582	0.101	2.92
50.530	23.9181	0.0508106	0.4849707	6	34.2	5.4	0.5	0.19703	173.9	168.8	0.214	1.50	1.00	173.85	0.569	0.101	2.86
50.550	23.4695	0.0636078	0.4844524	6	35.1	6.2	0.5	0.19723	170.6	165.6	0.274	1.55	1.00	170.57	0.541	0.101	2.72
50.570	23.0735	0.0637132	0.4896371	6	34.8	6.4	0.5	0.19743	167.7	162.7	0.279	1.56	1.00	167.70	0.519	0.101	2.61
50.590	22.2593	0.0686486	0.4860362	6	34.5	7.0	0.5	0.19763	161.8	156.8	0.311	1.59	1.00	161.80	0.474	0.101	2.38
50.610	21.2586	0.0662249	0.4769656	6	33.4	7.5	0.5	0.19783	154.5	149.5	0.318	1.61	1.00	154.53	0.423	0.101	2.13
50.630	20.3388	0.0684192	0.4736883	6	33.1	7.8	0.5	0.19803	151.4	146.4	0.332	1.63	1.00	151.45	0.403	0.101	2.03
50.650	20.1278	0.0663013	0.4679239	6	32.3	8.2	0.5	0.19823	146.3	141.3	0.343	1.65	1.00	146.94	0.375	0.101	1.89
50.670	19.3311	0.0637842	0.4417149	6	33.4	10.4	0.5	0.19843	140.4	135.4	0.492	1.74	1.07	149.90	0.393	0.101	1.98
50.690	19.6025	0.100984	0.4420945	6	34.2	10.6	0.5	0.19863	142.2	137.2	0.522	1.75	1.07	152.74	0.411	0.101	2.07
50.710	22.3701	0.0600663	0.4425264	6	35.6	7.6	0.5	0.19883	161.8	156.8	0.362	1.62	1.00	161.78	0.474	0.101	2.39
50.730	30.0394	0.0965631	0.4174745	6	44.6	5.4	0.5	0.19903	215.9	210.9	0.331	1.49	1.00	215.89	1.016	0.101	4.00
50.750	35.9778	0.1118507	0.4381495	6	51.1	4.3	0.5	0.19923	258.0	253.0	0.314	1.41	1.00	258.00	1.677	0.101	4.00
51.060	10.2605	0.0395138	0.5247947	6	19.2	16.6	0.5	0.20233	75.8	70.8	0.392	1.95	1.24	94.07	0.160	0.100	0.80
51.100	10.423	0.0399727	0.5402002	6	19.5	16.3	0.5	0.20273	77.0	72.0	0.390	1.94	1.23	94.92	0.160	0.100	0.81
51.120	11.3489	0.0436742	0.5514303	6	20.9	15.1	0.5	0.20293	83.5	78.5	0.390	1.91	1.20	100.09	0.173	0.099	0.88

CPT Verileri										F BÖLGESİ									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı		
51.140	11.7901	0.0476051	0.564417	6	21.7	14.9	0.5	0.20313	86.7	81.7	0.409	1.90	1.19	103.31	0.183	0.099	2.81		
51.160	12.8536	0.0521002	0.5573622	6	23.3	13.9	0.5	0.20333	94.1	89.0	0.410	1.87	1.16	109.30	0.201	0.099	1.02		
51.180	13.557	0.0529683	0.5436844	6	24.2	13.0	0.5	0.20353	98.8	93.8	0.396	1.84	1.14	112.63	0.213	0.098	1.08		
51.200	16.019	0.0551879	0.5575925	6	27.2	10.6	0.5	0.20373	116.1	111.1	0.348	1.75	1.07	124.67	0.260	0.098	1.32		
51.220	20.9983	0.0513252	0.5548554	6	32.1	6.9	0.5	0.20393	150.9	145.9	0.246	1.58	1.00	150.93	0.400	0.098	2.02		
51.400	44.9469	0.0271073	0.6469444	7	48.2	1.7	0.5	0.20573	317.9	312.9	0.060	1.13	1.00	317.88	3.067	0.098	4.00		
51.420	62.3976	0.0454536	0.5995473	7	59.0	1.0	0.5	0.20593	439.0	434.0	0.073	0.99	1.00	439.00	7.948	0.098	4.00		
51.630	14.0389	0.0013826	0.559781	6	24.8	12.4	0.5	0.20803	101.2	96.2	0.010	1.82	1.12	113.67	0.217	0.098	1.10		
51.650	19.7216	0.0096596	0.5558936	6	27.5	5.5	0.5	0.20823	140.5	135.5	0.049	1.50	1.00	140.52	0.338	0.098	1.72		
51.860	13.9664	0.240704	0.5738043	5	31.6	29.1	0.5	0.21033	96.3	91.3	1.818	2.23	1.75	168.42	0.524	0.098	2.67		
51.880	24.4979	0.3349097	0.577087	6	51.9	16.7	0.5	0.21053	172.8	167.8	1.376	1.96	1.25	215.37	1.009	0.098	4.00		
51.900	54.6092	0.4177567	0.5708384	6	94.6	6.0	0.5	0.21073	380.1	375.1	0.767	1.53	1.00	380.12	5.188	0.098	4.00		
51.920	56.6105	0.3844493	0.5334045	6	94.5	5.2	0.5	0.21093	393.5	388.4	0.681	1.48	1.00	393.46	5.745	0.098	4.00		
51.940	33.8076	0.182795	-0.0631193	6	55.7	7.2	0.5	0.21113	232.2	227.2	0.852	1.60	1.00	232.24	1.245	0.098	4.00		
51.960	22.8538	0.1379791	0.5700033	6	41.2	10.6	0.5	0.21133	161.1	156.1	0.608	1.75	1.07	173.18	0.563	0.098	2.88		
51.980	25.4625	0.1692963	0.3103271	6	45.9	10.4	0.5	0.21153	177.2	172.2	0.676	1.75	1.07	189.57	0.714	0.098	3.65		
52.000	26.7752	0.1752795	0.0748102	6	47.5	10.0	0.5	0.21173	184.5	179.5	0.671	1.73	1.06	195.38	0.774	0.098	3.95		
52.020	27.0198	0.1658304	0.0376355	6	47.2	9.6	0.5	0.21193	185.9	180.8	0.630	1.71	1.05	194.43	0.764	0.098	3.90		
52.040	26.778	0.1516754	0.013793	6	46.0	9.2	0.5	0.21213	184.0	178.9	0.582	1.70	1.04	190.41	0.722	0.098	3.69		
52.060	25.9028	0.1414947	0.0172196	6	44.4	9.3	0.5	0.21233	177.9	172.9	0.562	1.70	1.04	184.56	0.665	0.098	3.40		
52.080	24.1323	0.1327958	0.0160966	6	41.8	10.0	0.5	0.21253	165.6	160.6	0.567	1.73	1.06	175.07	0.579	0.098	2.96		
52.100	23.1925	0.090467	0.0169604	6	37.8	8.5	0.5	0.21273	159.1	154.1	0.403	1.66	1.01	161.32	0.470	0.098	2.41		
52.120	22.7171	0.0661313	0.0304942	6	35.2	7.5	0.5	0.21293	155.9	150.9	0.300	1.61	1.00	155.89	0.432	0.098	2.21		
52.140	22.4291	0.0494094	0.0409181	6	33.3	6.7	0.5	0.21313	153.9	148.9	0.227	1.57	1.00	153.92	0.419	0.098	2.14		
52.160	22.7725	0.0279257	0.0568132	6	31.4	5.3	0.5	0.21333	156.3	151.3	0.126	1.49	1.00	156.30	0.435	0.098	2.23		
52.180	23.043	0.0246838	0.0991999	6	31.3	5.1	0.5	0.21353	158.4	153.3	0.110	1.47	1.00	158.37	0.449	0.098	2.30		
52.200	23.0402	0.0343663	0.1265266	6	32.4	5.6	0.5	0.21373	158.5	153.4	0.153	1.50	1.00	158.46	0.456	0.098	2.30		
52.220	22.9387	0.0354589	0.1637014	6	32.5	5.7	0.5	0.21393	158.0	152.9	0.159	1.51	1.00	157.95	0.440	0.098	2.29		
52.240	19.4908	0.0402393	0.553158	6	30.1	7.4	0.5	0.21413	137.0	131.9	0.208	1.61	1.00	136.98	0.319	0.098	1.63		
52.260	20.6955	0.0400595	0.4973239	6	31.2	6.8	0.5	0.21433	144.8	139.7	0.196	1.58	1.00	144.76	0.362	0.098	1.86		
52.280	20.3124	0.0420497	0.5068133	6	31.1	7.1	0.5	0.21453	142.2	137.1	0.209	1.59	1.00	142.15	0.347	0.098	1.78		
52.300	20.7777	0.0422481	0.4913633	6	31.5	6.9	0.5	0.21473	145.1	140.1	0.206	1.58	1.00	145.14	0.364	0.098	1.87		
52.320	21.9519	0.0368442	0.51391	6	32.3	6.1	0.5	0.21493	153.2	148.2	0.179	1.54	1.00	153.24	0.415	0.098	2.13		
52.340	25.5484	0.0412186	0.4606963	6	35.9	5.0	0.5	0.21513	177.3	172.3	0.163	1.47	1.00	177.33	0.599	0.098	3.07		
52.360	27.4011	0.0396479	0.4348245	6	37.3	4.4	0.5	0.21533	189.7	184.7	0.147	1.42	1.00	189.69	0.715	0.098	3.67		
52.380	26.8112	0.0342747	0.3568892	6	36.2	4.4	0.5	0.21553	185.5	180.4	0.129	1.42	1.00	185.47	0.673	0.098	3.45		
52.400	25.7044	0.0305174	0.3462061	6	34.7	4.5	0.5	0.21573	171.3	166.3	0.121	1.43	1.00	177.36	0.599	0.098	3.07		
52.420	23.9403	0.0287193	0.3693575	6	32.5	5.2	0.5	0.21593	161.4	156.3	0.125	1.48	1.00	161.35	0.471	0.098	2.42		
52.440	22.1568	0.030629	0.3987863	6	31.6	5.7	0.5	0.21613	153.4	148.4	0.140	1.51	1.00	153.43	0.416	0.098	2.13		
52.460	21.4488	0.0161267	0.4629135	6	29.7	5.2	0.5	0.21633	149.0	143.9	0.076	1.48	1.00	148.98	0.387	0.098	1.99		
52.480	21.3842	0.0240754	0.53653	6	30.3	5.6	0.5	0.21653	149.0	143.9	0.114	1.51	1.00	148.98	0.388	0.098	1.99		

CPT Verileri													F BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Katsayısı	Sürtünme Katsayısı	Boşluk Suyu Basıncı													105	2.81
52.520	22.4134	0.0416219	0.5655816	6	33.3	6.1	0.5	0.21693	156.2	151.1	0.187	1.54	1.00	156.15	0.434	0.098	2.23
52.540	26.0385	0.0361622	0.5816942	6	36.2	4.7	0.5	0.21713	180.7	175.6	0.147	1.45	1.00	180.66	0.628	0.098	3.23
52.560	25.9462	0.0426573	0.5560664	6	36.6	5.0	0.5	0.21733	179.8	174.7	0.166	1.46	1.00	179.77	0.620	0.098	3.19
52.580	24.9917	0.0542083	0.5693122	6	37.1	5.8	0.5	0.21753	173.3	168.3	0.218	1.52	1.00	173.31	0.564	0.098	2.90
52.600	23.5391	0.0514262	0.5381557	6	36.0	6.5	0.5	0.21773	163.3	158.3	0.246	1.56	1.00	163.30	0.485	0.098	2.49
52.620	18.1938	0.0651951	0.5196419	6	31.1	10.2	0.5	0.21793	126.8	121.7	0.363	1.74	1.06	134.85	0.308	0.098	1.58
52.640	15.3783	0.1416729	0.5167032	6	31.8	19.1	0.5	0.21813	107.6	102.6	0.936	2.02	1.32	142.47	0.349	0.098	1.79
52.660	13.3105	0.2430725	0.6602478	5	31.9	30.0	0.5	0.21833	94.6	89.5	1.838	2.25	1.79	169.38	0.532	0.098	2.74
52.680	16.2848	0.2662798	0.7360659	5	37.6	24.8	0.5	0.21853	115.1	110.1	1.636	2.15	1.55	178.04	0.605	0.098	3.11
52.700	23.2018	0.2668343	0.667677	6	48.3	16.0	0.5	0.21873	161.4	156.4	1.163	1.93	1.22	197.43	0.796	0.098	4.00
52.720	26.3395	0.2103788	0.2467183	6	49.5	11.8	0.5	0.21893	179.7	174.6	0.814	1.80	1.11	198.59	0.808	0.098	4.00
52.740	28.5901	0.1937623	0.1670416	6	51.4	9.9	0.5	0.21913	194.3	189.2	0.692	1.73	1.06	205.14	0.883	0.098	4.00
52.760	26.0709	0.113352	0.5695714	6	43.7	8.0	0.5	0.21933	200.0	195.0	0.592	1.68	1.02	204.35	0.874	0.098	4.00
52.800	26.1004	0.1112873	0.5681892	6	43.5	7.9	0.5	0.21973	179.9	174.9	0.429	1.64	1.00	179.91	0.622	0.098	3.20
52.820	26.2241	0.1071828	0.5645737	6	43.4	7.7	0.5	0.21993	180.8	175.7	0.411	1.63	1.00	180.77	0.629	0.098	3.24
52.840	26.9995	0.0856975	0.5806	6	42.3	6.5	0.5	0.22013	185.9	180.8	0.319	1.56	1.00	185.89	0.677	0.098	3.49
52.860	27.8165	0.0785665	0.5864742	6	42.4	5.9	0.5	0.22033	191.3	186.3	0.284	1.53	1.00	191.35	0.732	0.098	3.77
52.880	28.915	0.0826548	0.5962646	6	43.9	5.7	0.5	0.22053	198.7	193.7	0.287	1.52	1.00	198.73	0.810	0.098	4.00
52.900	31.8219	0.0824006	0.6230443	6	46.6	4.9	0.5	0.22073	218.4	213.3	0.260	1.46	1.00	218.38	1.049	0.098	4.00
52.920	33.2204	0.0831694	0.6318289	6	47.9	4.6	0.5	0.22093	227.8	222.7	0.251	1.44	1.00	227.75	1.179	0.098	4.00
52.940	32.7644	0.1036363	0.6124764	6	49.6	5.3	0.5	0.22113	224.5	219.4	0.318	1.49	1.00	224.45	1.132	0.098	4.00
52.960	31.8404	0.1114657	0.5994033	6	49.5	5.8	0.5	0.22133	218.1	213.0	0.352	1.52	1.00	218.05	1.044	0.098	4.00
52.980	29.9147	0.1071827	0.5569014	6	47.2	6.3	0.5	0.22153	204.7	199.7	0.360	1.55	1.00	204.73	0.878	0.098	4.00
53.000	29.1273	0.1182067	0.6704352	6	47.4	7.0	0.5	0.22173	199.4	194.4	0.408	1.59	1.00	199.44	0.818	0.098	4.00
53.020	27.9993	0.1206592	0.588893	6	46.5	7.5	0.5	0.22193	191.9	186.9	0.434	1.62	1.00	191.90	0.737	0.098	3.81
53.060	25.0739	0.0727345	0.6179763	6	39.4	6.8	0.5	0.22233	172.3	167.3	0.292	1.58	1.00	172.30	0.556	0.098	2.87
53.080	24.4406	0.0632544	0.5770582	6	37.8	6.6	0.5	0.22253	167.7	162.7	0.261	1.57	1.00	167.71	0.519	0.098	2.68
53.100	24.8376	0.0616299	0.6076676	6	38.1	6.4	0.5	0.22273	170.5	165.4	0.250	1.55	1.00	170.50	0.541	0.098	2.80
53.120	26.8272	0.0791393	0.5940762	6	41.6	6.4	0.5	0.22293	183.0	177.9	0.298	1.56	1.00	182.99	0.650	0.098	3.36
53.140	28.182	0.0930401	0.4784342	6	44.3	6.5	0.5	0.22313	191.9	186.8	0.333	1.56	1.00	191.87	0.737	0.098	3.81
53.160	32.1413	0.1110827	0.3154815	6	49.7	5.9	0.5	0.22333	217.2	212.1	0.350	1.52	1.00	217.19	1.033	0.098	4.00
53.180	33.73	0.1369971	0.1491309	6	53.4	6.2	0.5	0.22353	226.6	221.6	0.414	1.55	1.00	226.60	1.162	0.098	4.00
53.200	36.6563	0.1774124	0.0660692	6	59.6	6.5	0.5	0.22373	245.6	240.6	0.493	1.56	1.00	245.64	1.458	0.098	4.00
53.220	37.7419	0.1662644	0.0726794	6	59.8	5.9	0.5	0.22393	252.7	247.6	0.449	1.53	1.00	252.70	1.581	0.098	4.00
53.240	38.8173	0.1541307	0.0655093	6	59.8	5.3	0.5	0.22413	262.3	257.2	0.404	1.49	1.00	259.72	1.709	0.098	4.00
53.260	39.2004	0.1253741	0.0604829	6	57.4	4.6	0.5	0.22433	262.3	257.2	0.325	1.44	1.00	262.26	1.758	0.098	4.00
53.280	39.35	0.1121987	0.135482	6	56.2	4.2	0.5	0.22453	263.5	258.5	0.290	1.41	1.00	263.51	1.782	0.098	4.00
53.300	38.5751	0.1218214	0.1685102	6	57.4	4.4	0.5	0.22473	261.3	259.3	0.313	1.43	1.00	264.32	1.797	0.098	4.00
53.340	38.5751	0.1365407	0.6297824	6	56.5	4.9	0.5	0.22513	261.3	256.2	0.355	1.46	1.00	261.29	1.739	0.098	4.00
53.360	38.1968	0.1564495	0.6156439	6	60.0	5.4	0.5	0.22533	258.5	253.4	0.411	1.50	1.00	258.49	1.686	0.098	4.00

CPT Verileri													F BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
53.380	37.4982	0.163896	0.6155863	6	60.0	5.8	0.5	0.22553	253.8	248.7	0.439	1.52	1.00	253.79	1.600	0.098	2.81
53.400	37.4299	0.1618747	0.6117565	6	59.8	5.8	0.5	0.22573	253.2	243.1	0.434	1.52	1.00	253.20	1.590	0.098	4.00
53.420	36.8723	0.1595558	0.6108639	6	59.1	5.9	0.5	0.22593	249.4	244.3	0.434	1.52	1.00	249.37	1.522	0.098	4.00
53.440	36.3757	0.159097	0.6374419	6	58.6	6.0	0.5	0.22613	246.1	241.1	0.439	1.53	1.00	246.14	1.467	0.098	4.00
53.460	35.2375	0.1563565	0.6417324	6	57.2	6.2	0.5	0.22633	238.5	233.4	0.445	1.55	1.00	238.49	1.342	0.098	4.00
53.480	34.7694	0.1561422	0.6261254	6	56.9	6.4	0.5	0.22653	235.2	230.1	0.457	1.56	1.00	235.17	1.290	0.098	4.00
53.500	33.9303	0.1572431	0.6203951	6	56.0	6.7	0.5	0.22673	229.5	224.4	0.465	1.57	1.00	229.46	1.204	0.098	4.00
53.520	34.2368	0.1541121	0.5650505	6	56.0	6.5	0.5	0.22693	231.0	226.0	0.453	1.56	1.00	231.02	1.227	0.098	4.00
53.540	39.2891	0.1840404	0.8005674	6	63.8	5.8	0.5	0.22713	266.0	260.9	0.468	1.52	1.00	266.01	1.831	0.098	4.00
53.560	60.7332	0.2036268	0.5237004	7	83.9	2.9	0.5	0.22733	406.3	401.2	0.337	1.28	1.00	406.28	6.317	0.098	4.00
53.580	60.5431	0.2036888	0.5301506	7	83.8	2.9	0.5	0.22753	404.9	399.8	0.338	1.29	1.00	404.89	6.253	0.098	4.00
53.760	13.5662	0.121034	0.5610192	5	28.8	21.3	0.5	0.22933	93.3	88.2	0.906	2.07	1.41	131.12	0.290	0.098	1.51
53.780	20.413	0.1166443	0.5044364	6	37.8	12.2	0.5	0.22953	138.1	133.0	0.579	1.82	1.12	154.37	0.422	0.098	2.20
53.800	23.3107	0.0945406	0.5463623	6	39.8	9.0	0.5	0.22973	157.4	152.3	0.409	1.69	1.03	162.01	0.475	0.098	2.48

CPT Verileri														G BÖLGESİ													
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı										
Direnci	Konu Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı													118	240										
45.630	7.4579	0.024156	0.4584502	6	13.0	15.6	0.5	0.14803	65.1	60.1	0.330	1.92	1.21	78.87	0.126	0.118	0.59										
45.650	9.4805	0.018613	0.4584215	6	14.7	10.5	0.5	0.14823	81.6	76.7	0.199	1.75	1.07	87.47	0.142	0.117	0.67										
45.670	10.8735	0.018176	0.4587094	6	15.5	7.8	0.5	0.14843	93.0	88.0	0.110	1.63	1.00	93.02	0.155	0.117	0.73										
45.690	11.72	0.0111107	0.4585942	6	16.2	7.0	0.5	0.14863	99.9	94.9	0.098	1.59	1.00	99.90	0.173	0.116	0.82										
45.710	12.0975	0.012974	0.4582487	6	16.7	6.9	0.5	0.14883	102.9	98.0	0.105	1.58	1.00	102.92	0.181	0.116	0.86										
45.750	11.3147	0.0275227	0.4591989	6	17.4	9.5	0.5	0.14923	96.4	91.4	0.246	1.71	1.04	100.62	0.175	0.115	0.83										
45.770	11.3286	0.0299841	0.4593429	6	17.7	9.8	0.5	0.14943	96.4	91.5	0.268	1.72	1.05	101.55	0.177	0.115	0.84										
45.790	11.7347	0.0303624	0.4602931	6	18.1	9.4	0.5	0.14963	99.7	94.7	0.282	1.71	1.04	103.81	0.184	0.115	0.87										
45.810	12.5185	0.0254642	0.4587094	6	18.4	8.0	0.5	0.14983	106.0	101.1	0.206	1.64	1.00	105.79	0.190	0.114	0.90										
45.830	11.4397	0.0385342	0.4585078	6	18.5	10.8	0.5	0.15003	97.3	92.3	0.341	1.76	1.08	105.03	0.188	0.114	0.89										
45.850	11.0396	0.0356697	0.455254	6	17.9	11.0	0.5	0.15023	93.8	88.8	0.328	1.77	1.09	101.76	0.178	0.114	0.85										
45.870	10.9501	0.0331214	0.458623	6	17.6	10.8	0.5	0.15043	93.0	88.1	0.307	1.76	1.08	100.43	0.174	0.113	0.83										
45.890	11.2473	0.030412	0.4584215	6	17.7	10.1	0.5	0.15063	95.4	90.4	0.274	1.73	1.06	101.08	0.176	0.113	0.84										
45.910	11.7504	0.0291409	0.4585654	6	18.1	9.3	0.5	0.15083	99.4	94.4	0.251	1.70	1.04	103.25	0.182	0.113	0.87										
45.930	12.1012	0.024249	0.4593429	6	18.0	8.4	0.5	0.15103	102.2	97.2	0.203	1.66	1.01	103.11	0.182	0.112	0.87										
45.950	12.6329	0.0204358	0.458911	6	18.1	7.4	0.5	0.15123	106.5	101.5	0.184	1.61	1.00	106.46	0.192	0.112	0.91										
45.970	12.9385	0.0193446	0.4587958	6	18.3	7.1	0.5	0.15143	108.9	103.9	0.151	1.59	1.00	108.87	0.200	0.112	0.95										
45.990	12.9191	0.0236227	0.4598612	6	18.7	7.6	0.5	0.15163	108.7	103.7	0.185	1.62	1.00	108.65	0.199	0.111	0.95										
46.010	12.584	0.0244908	0.4586806	6	18.5	8.0	0.5	0.15183	105.8	100.9	0.197	1.64	1.00	105.85	0.190	0.111	0.91										
46.030	11.6554	0.0241808	0.4555419	6	17.6	8.9	0.5	0.15203	98.2	93.3	0.210	1.68	1.03	100.69	0.175	0.111	0.83										
46.050	12.0098	0.0270267	0.4604659	6	18.2	8.9	0.5	0.15223	101.1	96.1	0.228	1.68	1.02	103.59	0.183	0.111	0.87										
46.070	13.0511	0.0284341	0.4608978	6	19.3	8.0	0.5	0.15243	109.4	104.5	0.220	1.64	1.00	109.19	0.201	0.110	0.96										
46.090	15.4789	0.0321232	0.4622224	6	21.9	6.6	0.5	0.15263	129.0	124.1	0.210	1.56	1.00	129.03	0.280	0.110	1.33										
46.110	17.7757	0.0446972	0.4564634	6	25.1	6.1	0.5	0.15283	147.5	142.5	0.254	1.54	1.00	147.48	0.378	0.110	1.80										
46.130	19.5776	0.0521808	0.4432463	6	27.4	5.7	0.5	0.15303	161.8	156.9	0.269	1.51	1.00	161.84	0.474	0.110	2.26										
46.150	22.5999	0.045838	0.4584502	6	29.2	4.2	0.5	0.15323	186.3	181.3	0.204	1.41	1.00	186.28	0.681	0.110	3.25										
46.170	23.1815	0.043296	0.4604947	6	29.3	3.9	0.5	0.15343	190.9	185.9	0.188	1.38	1.00	190.87	0.727	0.110	3.47										
46.190	23.3043	0.0477601	0.4620209	6	29.9	4.1	0.5	0.15363	191.7	186.8	0.206	1.40	1.00	191.74	0.736	0.110	3.51										
46.210	23.5867	0.0489939	0.4598612	6	30.3	4.1	0.5	0.15383	193.9	188.9	0.209	1.40	1.00	193.88	0.758	0.110	3.62										
46.230	24.2486	0.0556839	0.4644109	6	31.6	4.2	0.5	0.15403	199.1	194.2	0.232	1.40	1.00	199.12	0.814	0.110	3.89										
46.250	24.7656	0.0712402	0.4579031	6	33.6	4.6	0.5	0.15423	203.1	198.1	0.290	1.44	1.00	203.11	0.859	0.110	4.00										
46.290	24.3631	0.0538797	0.4525472	6	31.5	4.1	0.5	0.15443	199.6	194.6	0.223	1.40	1.00	199.56	0.819	0.110	3.91										
46.310	24.016	0.044646	0.4384375	6	30.2	3.8	0.5	0.15463	196.5	191.6	0.189	1.37	1.00	196.53	0.786	0.110	3.75										
46.330	21.6583	0.0440648	0.429367	6	28.4	4.5	0.5	0.15503	177.4	172.4	0.205	1.43	1.00	177.40	0.599	0.110	2.86										
46.350	18.9028	0.0417025	0.4184823	6	25.9	5.5	0.5	0.15523	155.1	150.1	0.223	1.50	1.00	155.08	0.427	0.110	2.04										
46.370	17.8412	0.0418265	0.4171866	6	25.1	6.0	0.5	0.15543	146.5	141.5	0.237	1.54	1.00	146.45	0.372	0.110	1.78										
46.390	16.9716	0.0421241	0.4264299	6	24.4	6.6	0.5	0.15563	139.5	134.5	0.251	1.57	1.00	139.46	0.332	0.110	1.59										
46.410	17.3981	0.0405059	0.4572696	6	24.6	6.2	0.5	0.15583	143.0	138.1	0.235	1.54	1.00	143.04	0.352	0.110	1.68										
46.430	17.9723	0.0457388	0.4638638	6	25.6	6.2	0.5	0.15603	147.6	142.6	0.257	1.55	1.00	147.59	0.379	0.110	1.81										
46.450	16.1825	0.0447716	0.4616177	6	26.6	5.6	0.5	0.15623	152.2	147.2	0.235	1.51	1.00	152.16	0.441	0.110	2.11										
46.470	17.5717	0.0423845	0.4494949	6	25.0	6.3	0.5	0.15643	144.1	139.1	0.244	1.55	1.00	144.09	0.358	0.110	1.71										

CPT Verileri														G BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Koni Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı														118	2.40
46.490	15.8519	0.0408965	0.4382647	6	23.3	7.2	0.5	0.15663	130.2	125.2	0.261	1.60	1.00	130.16	0.285	0.110	1.37
46.510	15.1235	0.038607	0.4331392	6	22.4	7.6	0.5	0.15683	124.2	119.3	0.260	1.62	1.00	124.22	0.258	0.110	1.24
46.530	14.4644	0.0385528	0.4460683	6	21.8	8.1	0.5	0.15703	119.0	114.0	0.270	1.65	1.00	118.98	0.237	0.110	1.13
46.570	14.253	0.0408903	0.4678663	6	21.9	8.5	0.5	0.15743	117.3	112.4	0.290	1.66	1.01	118.90	0.236	0.110	1.13
46.590	15.2583	0.0490559	0.4663978	6	23.5	8.4	0.5	0.15763	125.2	120.3	0.325	1.66	1.01	126.44	0.268	0.110	1.29
46.610	17.5144	0.0509656	0.4656491	6	25.8	6.9	0.5	0.15783	143.1	138.2	0.324	1.59	1.00	143.12	0.353	0.110	1.69
46.630	21.5023	0.0549089	0.4610418	6	29.7	5.2	0.5	0.15803	174.7	169.7	0.257	1.48	1.00	174.71	0.576	0.110	2.76
46.650	24.0409	0.0568372	0.4630287	6	31.9	4.4	0.5	0.15823	194.8	189.8	0.238	1.42	1.00	194.80	0.767	0.110	3.68
46.670	24.4258	0.0553367	0.4621648	6	32.0	4.2	0.5	0.15843	197.7	192.8	0.228	1.41	1.00	197.73	0.799	0.110	3.84
46.690	23.5286	0.0443996	0.4523456	6	30.1	4.0	0.5	0.15863	190.4	185.4	0.190	1.39	1.00	190.40	0.722	0.110	3.47
46.710	22.9451	0.0418823	0.4520577	6	29.4	4.1	0.5	0.15883	185.7	180.7	0.184	1.40	1.00	185.66	0.675	0.110	3.24
46.730	21.6352	0.0432154	0.454966	6	28.6	4.6	0.5	0.15903	175.2	170.2	0.201	1.44	1.00	175.17	0.580	0.110	2.79
46.750	20.3401	0.0487459	0.4490918	6	28.2	5.4	0.5	0.15923	164.7	159.8	0.242	1.49	1.00	164.75	0.496	0.110	2.38
46.770	19.4973	0.0511144	0.447364	6	27.7	5.9	0.5	0.15943	158.0	153.0	0.265	1.53	1.00	157.96	0.447	0.110	2.15
46.790	19.0635	0.0558948	0.4561754	6	28.3	6.1	0.5	0.15963	159.2	154.3	0.287	1.54	1.00	159.24	0.456	0.110	2.19
46.810	20.0586	0.0531357	0.4670025	6	28.4	5.8	0.5	0.15983	162.4	157.4	0.267	1.52	1.00	162.36	0.479	0.110	2.30
46.850	20.2423	0.0517406	0.4667433	6	28.5	5.6	0.5	0.16023	163.6	158.6	0.258	1.51	1.00	163.60	0.487	0.110	2.34
46.870	20.63	0.051722	0.4579031	6	28.8	5.5	0.5	0.16043	166.5	161.5	0.253	1.50	1.00	166.49	0.509	0.110	2.45
46.890	20.6697	0.0582942	0.4531807	6	29.5	5.8	0.5	0.16063	166.7	161.7	0.284	1.52	1.00	166.66	0.511	0.110	2.46
46.910	20.0373	0.0637876	0.447652	6	29.5	6.4	0.5	0.16083	161.5	156.6	0.321	1.56	1.00	161.53	0.472	0.110	2.27
46.930	19.4714	0.0716991	0.4657355	6	29.7	7.2	0.5	0.16103	157.1	152.1	0.371	1.60	1.00	157.11	0.441	0.110	2.12
46.950	19.4281	0.0748798	0.4641229	6	29.9	7.4	0.5	0.16123	156.7	151.7	0.389	1.61	1.00	156.66	0.438	0.110	2.11
46.970	20.2635	0.069126	0.4580471	6	30.2	6.6	0.5	0.16143	163.1	158.1	0.344	1.57	1.00	163.09	0.483	0.110	2.33
46.990	20.6164	0.0593173	0.4638926	6	29.8	5.9	0.5	0.16163	167.4	162.4	0.287	1.52	1.00	167.39	0.516	0.110	2.49
47.010	21.3722	0.0476361	0.4583927	6	29.1	5.0	0.5	0.16183	171.6	166.6	0.225	1.47	1.00	171.61	0.550	0.110	2.65
47.030	21.2946	0.0396626	0.4550524	6	28.2	4.7	0.5	0.16203	170.9	165.9	0.188	1.44	1.00	170.87	0.544	0.110	2.62
47.050	20.5709	0.0420807	0.443851	6	27.9	5.1	0.5	0.16223	165.0	160.0	0.206	1.47	1.00	164.99	0.498	0.110	2.40
47.070	19.3285	0.043699	0.4504739	6	27.0	5.7	0.5	0.16243	155.2	150.2	0.228	1.51	1.00	155.18	0.428	0.110	2.06
47.090	17.6215	0.0539665	0.4425552	6	26.5	7.3	0.5	0.16263	141.6	136.7	0.310	1.61	1.00	141.65	0.344	0.110	1.66
47.130	15.5537	0.051879	0.4728479	6	24.6	8.9	0.5	0.16303	125.5	120.6	0.359	1.68	1.03	128.88	0.279	0.110	1.35
47.150	15.3386	0.0551817	0.462228	6	24.4	9.1	0.5	0.16323	123.7	118.7	0.364	1.69	1.03	127.76	0.274	0.110	1.32
47.170	15.2288	0.0544439	0.4607827	6	24.3	9.2	0.5	0.16343	122.7	117.8	0.382	1.69	1.03	126.96	0.270	0.109	1.31
47.190	15.0405	0.0576866	0.4620209	6	24.3	9.6	0.5	0.16363	121.2	116.9	0.389	1.71	1.05	126.96	0.270	0.109	1.31
47.210	15.1392	0.0587406	0.4584215	6	24.5	9.6	0.5	0.16383	121.9	116.9	0.393	1.71	1.05	127.70	0.274	0.109	1.32
47.230	15.6746	0.0583319	0.4584215	6	25.1	9.1	0.5	0.16403	126.0	121.0	0.376	1.69	1.03	130.16	0.285	0.109	1.38
47.250	16.115	0.0559878	0.4613586	6	25.3	8.6	0.5	0.16423	129.3	124.4	0.351	1.67	1.02	131.50	0.291	0.109	1.41
47.270	17.3132	0.0537557	0.4653035	6	26.3	7.6	0.5	0.16443	136.6	133.7	0.314	1.62	1.00	138.65	0.328	0.109	1.59
47.290	19.0274	0.0482499	0.4453772	6	27.4	6.2	0.5	0.16463	151.8	146.8	0.256	1.55	1.00	151.77	0.405	0.109	1.96
47.310	20.3883	0.0459434	0.4431887	6	28.3	5.5	0.5	0.16483	162.2	157.3	0.228	1.50	1.00	162.24	0.473	0.109	2.31
47.330	22.0977	0.0449638	0.4493509	6	29.6	4.7	0.5	0.16503	175.5	170.5	0.205	1.45	1.00	175.51	0.583	0.109	2.82
47.350	23.1842	0.0457698	0.466081	6	30.6	4.4	0.5	0.16523	184.0	179.0	0.199	1.42	1.00	183.99	0.659	0.109	3.19

CPT Verileri														G BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																118	2.40
47.370	25.2327	0.0479895	0.4657643	6	32.4	3.9	0.5	0.16543	199.8	194.8	0.192	1.38	1.00	199.80	0.822	0.109	3.98
47.410	25.0387	0.0509346	0.4658794	6	32.7	4.1	0.5	0.16583	194.4	193.5	0.204	1.40	1.00	198.44	0.807	0.109	3.91
47.430	24.5957	0.0691694	0.4598612	6	34.3	5.0	0.5	0.16603	185.4	189.5	0.283	1.47	1.00	194.45	0.764	0.109	3.70
47.450	23.5846	0.0787363	0.4575864	6	34.4	5.8	0.5	0.16623	186.3	181.3	0.337	1.52	1.00	186.32	0.682	0.109	3.30
47.470	23.6153	0.0793129	0.4621073	6	34.5	5.1	0.5	0.16643	186.6	181.7	0.338	1.52	1.00	186.64	0.685	0.109	3.32
47.490	25.036	0.0760268	0.463691	6	35.4	5.8	0.5	0.16663	197.5	192.6	0.305	1.48	1.00	197.54	0.797	0.109	3.86
47.510	26.1475	0.0730569	0.4695364	6	36.0	4.7	0.5	0.16683	206.1	201.1	0.281	1.44	1.00	206.07	0.894	0.109	4.00
47.530	26.6764	0.0711844	0.4608978	6	36.3	4.4	0.5	0.16703	210.0	205.0	0.289	1.43	1.00	209.98	0.941	0.109	4.00
47.550	27.2229	0.0690888	0.4652747	6	36.5	4.2	0.5	0.16723	214.1	209.1	0.255	1.41	1.00	214.11	0.993	0.109	4.00
47.570	27.4814	0.0734041	0.4468321	6	37.1	4.3	0.5	0.16743	215.8	210.9	0.269	1.42	1.00	215.84	1.015	0.109	4.00
47.590	27.6983	0.0731623	0.4631727	6	37.3	4.2	0.5	0.16763	217.5	212.5	0.266	1.41	1.00	217.51	1.037	0.109	4.00
47.610	27.294	0.0717487	0.4658011	6	36.9	4.3	0.5	0.16783	214.2	209.2	0.285	1.42	1.00	214.20	0.994	0.109	4.00
47.630	26.1438	0.0759152	0.440194	6	36.4	4.8	0.5	0.16803	205.1	200.1	0.293	1.45	1.00	205.08	0.882	0.109	4.00
47.650	25.3582	0.0740923	0.4422961	6	35.6	5.0	0.5	0.16823	198.9	193.9	0.295	1.47	1.00	198.92	0.812	0.109	3.94
47.670	21.3906	0.0790215	0.5774613	6	32.7	6.8	0.5	0.16843	169.3	164.3	0.371	1.58	1.00	169.27	0.531	0.109	2.58
47.690	22.2479	0.0750844	0.4727039	6	33.9	5.8	0.5	0.16863	182.7	177.7	0.325	1.52	1.00	182.67	0.647	0.109	3.03
47.710	22.9553	0.0739993	0.4413458	6	33.6	5.9	0.5	0.16883	180.1	175.1	0.325	1.53	1.00	180.06	0.623	0.109	3.03
47.730	21.6943	0.0773846	0.4320737	6	32.7	6.7	0.5	0.16903	170.2	165.2	0.360	1.57	1.00	170.19	0.538	0.109	2.62
47.750	20.8432	0.0768948	0.4376024	6	31.9	7.1	0.5	0.16923	163.6	158.6	0.373	1.59	1.00	163.59	0.487	0.109	2.37
47.770	16.4991	0.0692314	0.438783	6	30.0	7.4	0.5	0.16943	153.2	148.2	0.359	1.61	1.00	153.17	0.414	0.109	2.01
47.790	17.6803	0.0669993	0.4384087	6	28.0	8.5	0.5	0.16963	139.0	134.0	0.384	1.66	1.01	140.88	0.340	0.109	1.65
47.810	15.5463	0.0654245	0.4250477	6	25.7	10.2	0.5	0.16983	122.6	117.6	0.427	1.74	1.06	130.25	0.286	0.109	1.39
47.830	14.95	0.0668629	0.4533535	6	25.2	10.9	0.5	0.17003	118.1	113.2	0.453	1.76	1.08	127.76	0.274	0.109	1.33
47.850	15.116	0.058133	0.4776567	6	24.8	9.9	0.5	0.17023	119.5	114.6	0.389	1.73	1.06	126.31	0.267	0.109	1.30
47.870	16.3411	0.0527575	0.4782038	6	25.6	8.5	0.5	0.17043	128.8	123.9	0.328	1.66	1.01	130.48	0.287	0.109	1.40
47.890	16.5941	0.0503704	0.4739133	6	25.7	8.1	0.5	0.17063	130.7	125.7	0.307	1.65	1.00	130.74	0.288	0.109	1.40
47.910	16.0199	0.0445422	0.4739997	6	24.6	8.1	0.5	0.17083	126.2	121.2	0.281	1.64	1.00	126.15	0.267	0.109	1.30
47.950	17.243	0.0384199	0.4799028	6	25.0	6.7	0.5	0.17123	135.4	130.5	0.213	1.57	1.00	135.44	0.311	0.109	1.52
47.970	18	0.0338779	0.477734	6	25.5	6.1	0.5	0.17143	141.1	136.1	0.190	1.54	1.00	141.12	0.341	0.109	1.66
47.990	18.8963	0.0365129	0.4786646	6	26.5	5.8	0.5	0.17163	147.9	142.9	0.195	1.52	1.00	147.89	0.381	0.109	1.86
48.010	19.3367	0.0387264	0.480997	6	27.2	5.7	0.5	0.17183	151.2	146.2	0.202	1.52	1.00	151.18	0.401	0.109	1.96
48.030	19.3228	0.0410825	0.4657931	6	27.4	5.9	0.5	0.17203	150.9	145.9	0.215	1.53	1.00	150.87	0.399	0.109	1.95
48.050	16.3717	0.0403261	0.4778871	6	27.4	5.8	0.5	0.17223	151.3	146.3	0.210	1.52	1.00	151.25	0.402	0.109	1.96
48.070	20.1139	0.043606	0.470861	6	28.4	5.7	0.5	0.17243	156.8	151.8	0.219	1.51	1.00	156.76	0.438	0.109	2.14
48.090	20.786	0.0446042	0.4775991	6	29.1	5.5	0.5	0.17283	161.8	156.9	0.216	1.50	1.00	161.84	0.474	0.109	2.31
48.110	20.6263	0.0467247	0.4665705	6	29.2	5.7	0.5	0.17303	160.4	155.5	0.229	1.51	1.00	160.44	0.464	0.109	2.27
48.130	20.3078	0.0531543	0.4659946	6	29.6	6.2	0.5	0.17323	157.9	153.0	0.264	1.54	1.00	157.93	0.446	0.109	2.18
48.150	20.2358	0.0694298	0.4774562	6	31.0	7.2	0.5	0.17343	157.4	152.4	0.346	1.60	1.00	157.38	0.442	0.109	2.16
48.170	20.365	0.0711782	0.4775991	6	31.3	7.2	0.5	0.17363	158.3	153.3	0.353	1.60	1.00	158.27	0.449	0.109	2.19
48.190	17.1563	0.0559878	0.4857482	6	26.9	8.3	0.5	0.17383	133.9	128.9	0.330	1.65	1.01	134.65	0.307	0.109	1.50
48.210	17.2753	0.0528629	0.4792981	6	26.8	8.0	0.5	0.17383	134.7	129.7	0.309	1.64	1.00	134.66	0.307	0.109	1.50

CPT Verileri														G BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															118	240	
48.230	16.7012	0.0580338	0.46357568	6	26.6	8.8	0.5	0.17403	130.1	125.1	0.352	1.68	1.02	133.09	0.299	1.46	
48.250	15.9433	0.0572216	0.472416	6	25.8	9.4	0.5	0.17423	124.4	119.4	0.363	1.70	1.04	129.31	0.281	1.37	
48.270	16.0245	0.0544129	0.4805363	6	25.7	9.1	0.5	0.17443	125.0	120.0	0.343	1.69	1.03	128.86	0.279	1.36	
48.290	15.875	0.0505006	0.4714081	6	25.2	8.9	0.5	0.17463	123.7	118.7	0.322	1.68	1.03	126.88	0.270	1.32	
48.310	15.2703	0.0488203	0.462424	6	24.4	9.3	0.5	0.17483	119.0	114.0	0.324	1.70	1.04	123.44	0.255	1.25	
48.330	12.5037	0.0447468	0.4558587	6	21.2	11.8	0.5	0.17503	96.0	93.0	0.364	1.80	1.11	108.49	0.199	0.97	
48.350	10.4405	0.0409957	0.4379768	6	18.5	14.6	0.5	0.17523	82.2	77.2	0.401	1.89	1.18	97.13	0.165	0.81	
48.370	9.5026	0.0389496	0.4348093	6	17.3	16.2	0.5	0.17543	75.0	70.1	0.420	1.94	1.23	92.16	0.153	0.75	
48.390	7.9121	0.0382986	0.4407987	6	15.3	20.2	0.5	0.17563	63.0	58.1	0.498	2.05	1.36	85.99	0.108	0.68	
48.410	7.4496	0.0358619	0.4540446	5	14.6	21.2	0.5	0.17583	59.6	54.6	0.495	2.07	1.40	83.46	0.134	0.66	
48.430	7.0453	0.0289239	0.4737694	5	13.7	20.8	0.5	0.17603	56.7	51.7	0.422	2.06	1.39	78.64	0.125	0.61	
48.490	6.8791	0.0205164	0.4870728	6	12.9	19.1	0.5	0.17663	55.4	50.4	0.306	2.02	1.32	73.40	0.117	0.57	
48.510	6.5348	0.0158865	0.487044	6	12.1	18.8	0.5	0.17683	52.8	47.8	0.247	2.01	1.31	69.32	0.111	0.54	
48.530	5.656	0.0160585	0.4880806	5	11.0	22.3	0.5	0.17703	46.2	41.2	0.293	2.09	1.45	66.75	0.108	0.53	
48.550	5.4012	0.0117122	0.4873895	5	10.4	21.7	0.5	0.17723	44.2	39.3	0.224	2.08	1.42	62.80	0.103	0.51	
48.570	5.3366	0.0097219	0.4899523	5	10.1	21.1	0.5	0.17743	43.7	38.8	0.183	2.07	1.40	61.10	0.101	0.50	
48.590	6.0012	0.006783	0.4911041	6	10.7	17.4	0.5	0.17763	48.7	43.7	0.116	1.97	1.27	61.79	0.102	0.50	
48.610	7.6158	0.007062	0.4906722	6	12.7	13.5	0.5	0.17783	60.8	55.8	0.095	1.86	1.15	70.05	0.112	0.55	
48.630	10.1627	0.0098025	0.4897508	6	15.8	10.1	0.5	0.17803	79.8	74.9	0.098	1.73	1.06	84.69	0.136	0.67	
48.650	11.6424	0.0084323	0.4897508	6	17.3	8.5	0.5	0.17823	90.9	85.9	0.074	1.66	1.01	92.06	0.153	0.75	
48.670	14.6564	0.0059398	0.4918528	6	20.7	6.6	0.5	0.17843	113.4	108.4	0.041	1.57	1.00	113.40	0.216	1.06	
48.690	16.043	0.0092197	0.4900387	6	21.9	5.8	0.5	0.17863	123.7	118.7	0.058	1.52	1.00	123.70	0.256	1.26	
48.710	18.0803	0.0127352	0.489434	6	24.0	5.1	0.5	0.17883	138.9	133.9	0.071	1.47	1.00	138.86	0.329	1.62	
48.730	15.6038	0.0138814	0.4914785	6	25.3	4.6	0.5	0.17903	149.4	144.5	0.072	1.44	1.00	149.44	0.390	1.92	
48.770	20.2109	0.0286794	0.4928894	6	27.1	4.9	0.5	0.17943	154.6	149.6	0.133	1.46	1.00	154.56	0.423	2.08	
48.790	21.6832	0.0370958	0.4891461	6	29.5	5.0	0.5	0.17963	165.4	160.5	0.172	1.46	1.00	165.43	0.501	2.46	
48.810	22.0248	0.0652943	0.484451	6	32.8	6.3	0.5	0.17983	167.9	162.9	0.299	1.55	1.00	167.85	0.520	2.56	
48.830	22.3451	0.0713394	0.4849707	6	33.6	6.5	0.5	0.18003	170.2	165.2	0.322	1.56	1.00	170.15	0.538	2.65	
48.850	22.298	0.069924	0.4810546	6	32.9	6.1	0.5	0.18023	169.7	164.7	0.289	1.54	1.00	169.68	0.534	2.63	
48.870	21.8946	0.0614253	0.478463	6	32.3	6.2	0.5	0.18043	166.6	161.6	0.283	1.54	1.00	166.56	0.510	2.51	
48.890	22.2574	0.0606317	0.4831854	6	32.6	6.0	0.5	0.18063	169.2	164.2	0.275	1.53	1.00	169.20	0.531	2.61	
48.910	23.4898	0.0553243	0.4860074	6	33.1	5.3	0.5	0.18083	178.3	173.3	0.237	1.48	1.00	178.29	0.607	2.99	
48.930	23.6477	0.0532969	0.4885126	6	33.1	5.1	0.5	0.18103	179.4	174.4	0.227	1.47	1.00	179.39	0.617	3.04	
48.950	23.1575	0.0476237	0.470026	6	32.0	5.0	0.5	0.18123	175.5	170.5	0.207	1.47	1.00	175.51	0.583	2.87	
48.970	22.5556	0.0488513	0.4801907	6	31.7	5.3	0.5	0.18143	171.0	166.0	0.218	1.49	1.00	171.02	0.545	2.69	
48.990	22.6682	0.0485227	0.4837325	6	31.8	5.3	0.5	0.18163	171.8	166.8	0.216	1.48	1.00	171.79	0.551	2.72	
49.010	23.7834	0.0527451	0.4947899	6	33.2	5.1	0.5	0.18183	180.0	175.1	0.223	1.47	1.00	180.05	0.623	3.07	
49.050	25.6038	0.0650028	0.5017008	6	36.1	5.0	0.5	0.18223	193.4	188.4	0.256	1.47	1.00	193.38	0.753	3.71	
49.070	26.4567	0.0624236	0.4877927	6	36.5	4.6	0.5	0.18243	199.5	194.5	0.238	1.44	1.00	199.49	0.818	4.00	
49.090	28.2596	0.0523234	0.4833006	6	36.8	3.8	0.5	0.18263	212.7	207.7	0.186	1.37	1.00	212.69	0.975	4.00	
49.110	30.2766	0.0526025	0.4762458	6	38.3	3.4	0.5	0.18283	227.4	222.5	0.175	1.34	1.00	227.44	1.174	4.00	

CPT Verileri											G BÖLGESİ										
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$	qc1N	Q	F	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı				
Koni Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı						[MPa]			[%]					118	2.40				
49.130	32.109	0.0553119	0.4843372	6	40.0	3.1	0.5	0.18303	240.9	235.9	0.173	1.31	1.00	240.92	1.380	0.099	4.00				
49.150	33.226	0.0628824	0.4789237	6	41.7	3.1	0.5	0.18323	249.0	244.0	0.190	1.31	1.00	249.00	1.516	0.099	4.00				
49.170	34.3134	0.0607265	0.4865833	6	44.7	3.4	0.5	0.18343	256.9	252.0	0.237	1.34	1.00	256.95	1.658	0.099	4.00				
49.190	35.4295	0.09446	0.4828975	6	47.1	3.6	0.5	0.18363	265.0	260.0	0.268	1.35	1.00	265.02	1.811	0.099	4.00				
49.210	35.9381	0.1057691	0.4820912	6	48.8	3.7	0.5	0.18383	268.6	263.6	0.295	1.37	1.00	268.62	1.883	0.099	4.00				
49.230	36.1283	0.108663	0.4789813	6	49.3	3.8	0.5	0.18403	269.9	264.9	0.303	1.37	1.00	269.85	1.907	0.099	4.00				
49.250	36.5529	0.1097249	0.4656203	6	49.7	3.7	0.5	0.18423	272.7	267.7	0.302	1.37	1.00	272.73	1.967	0.099	4.00				
49.270	37.2443	0.1141952	0.4715521	6	50.8	3.7	0.5	0.18443	277.7	272.7	0.308	1.37	1.00	277.72	2.072	0.099	4.00				
49.310	37.6034	0.0960472	0.4989653	6	49.0	3.2	0.5	0.18483	280.3	275.3	0.257	1.32	1.00	280.26	2.127	0.099	4.00				
49.330	38.8118	0.1017142	0.4865257	6	50.6	3.2	0.5	0.18503	288.9	283.9	0.263	1.32	1.00	288.90	2.323	0.099	4.00				
49.350	38.9503	0.1105619	0.4673768	6	51.7	3.3	0.5	0.18523	289.6	284.6	0.285	1.33	1.00	289.62	2.339	0.099	4.00				
49.370	38.8563	0.1106735	0.4589388	6	51.7	3.4	0.5	0.18543	288.8	283.8	0.286	1.34	1.00	288.79	2.320	0.099	4.00				
49.390	38.8447	0.1141208	0.4688454	6	51.9	3.5	0.5	0.18563	287.1	282.1	0.297	1.35	1.00	287.08	2.280	0.099	4.00				
49.410	37.7077	0.1215982	0.4627695	6	52.1	3.8	0.5	0.18583	280.0	275.0	0.324	1.38	1.00	280.01	2.122	0.099	4.00				
49.430	36.996	0.12698	0.4710626	6	52.1	4.1	0.5	0.18603	274.7	269.7	0.345	1.40	1.00	274.70	2.008	0.099	4.00				
49.450	36.8871	0.128561	0.4610418	6	52.2	4.1	0.5	0.18623	273.1	268.7	0.351	1.40	1.00	273.68	1.986	0.099	4.00				
49.470	36.8299	0.1234273	0.4604083	6	51.6	4.0	0.5	0.18643	273.1	268.1	0.337	1.39	1.00	273.11	1.975	0.099	4.00				
49.490	36.8696	0.1225345	0.4755835	6	51.6	4.0	0.5	0.18663	273.4	268.4	0.334	1.39	1.00	273.37	1.980	0.099	4.00				
49.510	37.7077	0.1218524	0.4702563	6	52.2	3.8	0.5	0.18683	279.3	274.3	0.325	1.38	1.00	279.31	2.107	0.099	4.00				
49.530	38.2229	0.1174813	0.4749212	6	52.1	3.7	0.5	0.18703	283.0	278.0	0.309	1.36	1.00	282.96	2.187	0.099	4.00				
49.570	34.6845	0.1006664	0.4791829	6	47.7	3.9	0.5	0.18743	256.8	251.9	0.292	1.39	1.00	256.85	1.656	0.099	4.00				
49.590	33.3266	0.1020924	0.4189719	6	46.7	4.3	0.5	0.18763	246.4	241.4	0.309	1.41	1.00	246.36	1.471	0.099	4.00				
49.610	30.8791	0.1076354	0.3992183	6	45.3	5.1	0.5	0.18783	229.0	224.0	0.351	1.47	1.00	228.95	1.196	0.099	4.00				
49.630	26.2952	0.1144928	0.4100165	6	41.6	6.9	0.5	0.18803	194.8	189.8	0.440	1.58	1.00	194.75	0.767	0.099	3.81				
49.650	24.7619	0.1121925	0.3911844	6	39.9	7.5	0.5	0.18823	183.3	178.3	0.459	1.62	1.00	183.34	0.653	0.099	3.24				
49.670	23.1159	0.1073502	0.4012915	6	37.8	8.2	0.5	0.18843	171.3	166.3	0.470	1.65	1.00	171.76	0.551	0.099	2.74				
49.690	21.5272	0.0948568	0.3849646	6	35.2	8.5	0.5	0.18863	159.5	154.6	0.447	1.66	1.01	161.69	0.473	0.099	2.35				
49.710	20.0687	0.088607	0.3980377	6	33.2	9.1	0.5	0.18883	148.9	143.9	0.448	1.69	1.03	153.72	0.418	0.099	2.08				
49.730	19.0588	0.0863377	0.422053	6	32.0	9.7	0.5	0.18903	141.7	136.7	0.459	1.72	1.05	148.63	0.385	0.099	1.92				
49.750	19.3487	0.0675449	0.4819472	6	31.0	8.3	0.5	0.18923	144.2	139.2	0.453	1.65	1.01	145.04	0.364	0.099	1.81				
49.770	19.6496	0.0675449	0.4819472	6	31.3	8.1	0.5	0.18943	146.3	141.3	0.347	1.65	1.00	146.25	0.371	0.099	1.85				
49.860	12.8979	0.0721145	0.5130462	6	24.1	15.2	0.5	0.19033	97.2	92.2	0.567	1.91	1.20	116.63	0.228	0.099	1.13				
49.880	22.8916	0.0333819	0.522779	6	30.9	4.7	0.5	0.19053	169.6	164.6	0.447	1.45	1.00	169.63	0.534	0.099	2.66				
49.900	43.5059	0.0386706	0.4363642	7	45.8	4.7	0.5	0.19073	318.2	313.2	0.089	1.13	1.00	318.18	0.376	0.099	4.00				
49.920	40.3368	0.0429736	0.3303687	7	44.4	2.0	0.5	0.19093	284.3	289.3	0.107	1.18	1.00	284.31	2.451	0.099	4.00				
49.940	33.2112	0.0579346	0.3156285	6	41.8	3.2	0.5	0.19113	242.5	237.5	0.176	1.32	1.00	242.51	1.406	0.099	4.00				
49.960	32.0832	0.0801685	0.2316871	6	43.6	4.1	0.5	0.19133	233.6	228.6	0.254	1.40	1.00	233.62	1.266	0.099	4.00				
49.980	31.1448	0.0596335	0.2224438	6	40.9	3.6	0.5	0.19153	230.8	225.8	0.191	1.35	1.00	230.77	1.223	0.099	4.00				
50.000	30.8166	0.0503704	0.2342211	6	39.1	3.5	0.5	0.19173	224.2	219.2	0.166	1.34	1.00	224.25	1.129	0.099	4.00				
50.070	28.7876	0.0401897	0.2386556	6	36.3	3.6	0.5	0.19193	209.5	204.5	0.142	1.35	1.00	209.52	0.935	0.099	4.00				
50.040	26.0764	0.0390302	0.2489067	6	34.1	4.2	0.5	0.19213	189.9	184.9	0.152	1.40	1.00	189.92	0.717	0.099	3.58				

CPT Verileri														G BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Konu Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı			%		[MPa]			%					118	2.40
50.060	23.2959	0.0420187	0.2570558	6	32.2	5.1	0.5	0.19233	169.8	164.8	0.184	1.48	1.00	169.84	0.536	0.099	2.67
50.080	22.0534	0.0649842	0.2684875	6	33.4	6.9	0.5	0.19253	160.9	155.9	0.300	1.58	1.00	160.87	0.487	0.099	2.33
50.100	20.3724	0.0664599	0.292618	6	31.9	7.8	0.5	0.19273	148.9	143.9	0.333	1.63	1.00	148.85	0.387	0.099	1.93
50.120	19.9838	0.0680967	0.305288	6	31.7	8.2	0.5	0.19293	146.1	141.1	0.348	1.65	1.00	146.49	0.372	0.099	1.86
50.140	20.9244	0.0650772	0.5049259	6	32.6	7.3	0.5	0.19313	154.2	149.2	0.314	1.61	1.00	154.20	0.421	0.099	2.10
50.160	22.6433	0.0458814	0.5083237	6	32.3	5.5	0.5	0.19333	166.5	161.5	0.204	1.50	1.00	166.51	0.509	0.099	2.55
50.180	26.7706	0.0304926	0.5085629	6	34.0	3.7	0.5	0.19353	196.1	191.1	0.115	1.36	1.00	196.09	0.781	0.099	3.91
50.200	30.6791	0.0162321	0.5066248	7	36.2	2.8	0.5	0.19373	224.1	219.1	0.053	1.27	1.00	224.06	1.126	0.099	4.00
50.220	32.2475	0.0168211	0.5095331	7	37.5	2.6	0.5	0.19393	235.2	230.2	0.052	1.25	1.00	235.22	1.290	0.099	4.00
50.240	33.4845	0.0299531	0.5111745	7	39.0	2.5	0.5	0.19413	244.0	239.0	0.090	1.25	1.00	243.99	1.431	0.099	4.00
50.260	33.7669	0.0388859	0.5101954	7	40.3	2.7	0.5	0.19433	245.9	240.9	0.119	1.27	1.00	245.89	1.463	0.099	4.00
50.280	33.67	0.0491799	0.5049835	7	41.5	2.9	0.5	0.19453	248.0	243.0	0.147	1.29	1.00	248.03	1.448	0.099	4.00
50.300	32.9056	0.062622	0.5026799	6	42.6	3.4	0.5	0.19473	239.4	234.4	0.191	1.34	1.00	239.41	1.356	0.099	4.00
50.320	33.0312	0.0743217	0.5007794	6	44.2	3.8	0.5	0.19493	240.2	235.2	0.226	1.37	1.00	240.17	1.368	0.099	4.00
50.340	33.4937	0.0784387	0.4986197	6	45.0	3.8	0.5	0.19513	243.3	238.3	0.236	1.37	1.00	243.34	1.420	0.099	4.00
50.360	34.2594	0.0793501	0.5052138	6	45.8	3.6	0.5	0.19533	249.0	244.0	0.233	1.36	1.00	248.99	1.516	0.099	4.00
50.400	27.5368	0.0693926	0.2482156	6	39.0	5.0	0.5	0.19573	198.6	193.6	0.256	1.47	1.00	198.60	0.808	0.099	4.00
50.420	30.4908	0.0876212	0.489722	6	43.7	4.8	0.5	0.19593	221.3	216.3	0.289	1.45	1.00	221.33	1.088	0.099	4.00
50.440	29.0184	0.089994	0.4810258	6	42.7	5.3	0.5	0.19613	210.6	205.6	0.312	1.49	1.00	210.64	0.949	0.099	4.00
50.460	29.0339	0.0913351	0.4723008	6	42.9	5.3	0.5	0.19633	210.9	205.9	0.317	1.49	1.00	210.94	0.953	0.099	4.00
50.480	28.8504	0.0908763	0.4794132	6	42.6	5.4	0.5	0.19653	209.2	204.2	0.317	1.49	1.00	209.22	0.932	0.099	4.00
50.500	30.1834	0.0900888	0.5055018	6	43.8	5.0	0.5	0.19673	218.8	213.8	0.300	1.46	1.00	218.80	1.054	0.099	4.00
50.520	30.1834	0.0892084	0.4976407	6	43.7	4.9	0.5	0.19693	218.6	213.6	0.298	1.46	1.00	218.63	1.052	0.099	4.00
50.540	31.2653	0.0845459	0.5031406	6	44.1	4.5	0.5	0.19713	226.3	221.3	0.272	1.43	1.00	226.27	1.157	0.099	4.00
50.560	32.0675	0.0792633	0.5000883	6	44.2	4.2	0.5	0.19733	231.8	226.8	0.249	1.40	1.00	231.84	1.239	0.099	4.00
50.580	32.5835	0.0762872	0.4949051	6	44.3	4.0	0.5	0.19753	235.4	230.4	0.236	1.39	1.00	235.36	1.292	0.099	4.00
50.600	31.4	0.0757788	0.4893188	6	43.3	4.2	0.5	0.19773	226.8	221.8	0.243	1.41	1.00	226.78	1.165	0.099	4.00
50.620	30.5185	0.0812784	0.4785782	6	43.2	4.6	0.5	0.19793	220.3	215.3	0.288	1.44	1.00	220.33	1.075	0.099	4.00
50.640	28.039	0.081483	0.4666081	6	41.1	5.3	0.5	0.19813	202.5	197.5	0.293	1.49	1.00	202.51	0.852	0.099	4.00
50.680	24.7286	0.0776698	0.5055018	6	37.8	6.4	0.5	0.19853	179.1	174.1	0.317	1.56	1.00	179.09	0.614	0.099	3.09
50.700	24.9982	0.077025	0.5044394	6	38.0	6.3	0.5	0.19873	180.9	175.9	0.311	1.55	1.00	180.91	0.631	0.099	3.17
50.720	24.7748	0.0774404	0.5017296	6	37.8	6.4	0.5	0.19893	179.2	174.2	0.315	1.55	1.00	179.21	0.615	0.099	3.10
50.740	24.3926	0.0740737	0.4983606	6	37.2	6.3	0.5	0.19913	176.4	171.4	0.305	1.56	1.00	176.39	0.590	0.099	2.97
50.760	24.5117	0.0728275	0.4998291	6	37.2	6.3	0.5	0.19933	177.2	172.2	0.300	1.55	1.00	177.16	0.597	0.099	3.01
50.780	25.7699	0.0661685	0.5017872	6	37.7	5.5	0.5	0.19953	186.0	181.0	0.259	1.50	1.00	185.99	0.678	0.099	3.42
50.800	26.2573	0.0596645	0.5018448	6	37.4	5.1	0.5	0.19973	189.3	184.3	0.229	1.47	1.00	189.34	0.711	0.099	3.58
50.820	25.8318	0.0599612	0.4925727	6	36.8	5.1	0.5	0.19993	186.2	181.2	0.222	1.48	1.00	186.17	0.680	0.099	3.43
50.840	24.3428	0.0594785	0.4876487	6	35.7	5.8	0.5	0.20013	175.5	170.5	0.247	1.52	1.00	175.52	0.583	0.099	2.94
50.860	22.9507	0.0584554	0.4724736	6	34.3	6.3	0.5	0.20033	165.5	160.5	0.257	1.55	1.00	165.49	0.502	0.099	2.53
50.880	21.626	0.056304	0.4709186	6	32.9	6.8	0.5	0.20053	156.0	151.0	0.263	1.58	1.00	156.04	0.433	0.099	2.19
50.900	20.6669	0.0553683	0.4640941	6	31.7	7.1	0.5	0.20073	149.1	144.1	0.262	1.60	1.00	149.15	0.389	0.099	1.96

CPT Verileri														G BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Konu Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı			%		[MPa]			%					118	240
50.920	20.676	0.0528877	0.4746044	6	31.7	7.1	0.5	0.20093	149.2	144.2	0.259	1.59	1.00	149.22	0.389	0.099	1.96
50.960	19.3939	0.0464085	0.5116928	6	29.8	7.4	0.5	0.20133	140.3	135.3	0.242	1.61	1.00	140.29	0.337	0.099	1.70
50.980	19.1371	0.0407725	0.4932638	6	29.1	7.1	0.5	0.20153	138.6	133.6	0.215	1.59	1.00	138.63	0.328	0.099	1.66
51.000	18.5483	0.0415723	0.4853451	6	28.5	7.5	0.5	0.20173	134.0	129.0	0.227	1.62	1.00	134.01	0.304	0.099	1.53
51.020	17.4932	0.0370276	0.4751515	6	27.0	7.9	0.5	0.20193	126.4	121.4	0.215	1.63	1.00	126.45	0.268	0.099	1.35
51.040	16.7538	0.0365191	0.4742013	6	26.2	8.3	0.5	0.20213	121.2	116.2	0.221	1.66	1.01	122.17	0.250	0.099	1.26
51.060	15.4595	0.0362277	0.4658906	6	24.9	9.3	0.5	0.20233	112.0	106.9	0.238	1.70	1.04	116.34	0.226	0.099	1.14
51.080	14.3675	0.0355705	0.4782614	6	23.6	10.3	0.5	0.20253	104.3	99.3	0.252	1.74	1.07	111.13	0.208	0.099	1.05
51.100	14.205	0.0354651	0.4868424	6	23.5	10.4	0.5	0.20273	103.2	98.2	0.254	1.75	1.07	110.35	0.205	0.099	1.04
51.120	14.4404	0.0303314	0.5037165	6	23.3	9.6	0.5	0.20293	104.9	99.9	0.213	1.71	1.05	109.89	0.203	0.098	1.03
51.140	14.7894	0.0292463	0.5210513	6	23.6	9.2	0.5	0.20313	107.4	102.4	0.200	1.70	1.04	111.19	0.208	0.098	1.05
51.160	15.1531	0.0246396	0.5117792	6	23.5	8.4	0.5	0.20333	109.9	104.8	0.185	1.66	1.01	111.16	0.208	0.098	1.05
51.180	15.7503	0.036637	0.4994548	6	25.3	9.2	0.5	0.20353	113.9	108.9	0.236	1.69	1.03	117.78	0.232	0.098	1.17
51.200	15.6137	0.0351117	0.5016432	6	25.0	9.1	0.5	0.20373	112.9	107.9	0.228	1.69	1.03	116.66	0.228	0.098	1.15
51.240	15.2472	0.0291161	0.51152	6	24.1	8.9	0.5	0.20413	110.3	105.3	0.194	1.68	1.02	113.04	0.214	0.098	1.09
51.260	15.3377	0.039613	0.515177	6	25.2	9.8	0.5	0.20433	110.9	105.9	0.262	1.72	1.05	116.80	0.228	0.098	1.16
51.280	14.9048	0.0388194	0.5046379	6	24.6	10.2	0.5	0.20453	107.7	102.7	0.264	1.74	1.06	114.49	0.220	0.098	1.11
51.300	14.3149	0.0361781	0.5112609	6	23.8	10.5	0.5	0.20473	103.6	98.6	0.256	1.75	1.07	110.95	0.207	0.097	1.05
51.320	14.3841	0.0335059	0.5103106	6	23.6	10.1	0.5	0.20493	104.0	99.0	0.236	1.73	1.06	110.42	0.205	0.097	1.04
51.340	14.4393	0.0267476	0.5045515	6	23.1	9.3	0.5	0.20513	104.7	99.7	0.187	1.70	1.04	108.68	0.199	0.097	1.01
51.360	14.3223	0.0259602	0.5087557	6	22.9	9.4	0.5	0.20533	103.5	98.5	0.184	1.70	1.04	107.85	0.196	0.097	0.99
51.380	15.4171	0.0274607	0.5172215	6	24.2	8.6	0.5	0.20553	111.1	106.1	0.180	1.67	1.02	113.08	0.214	0.097	1.09
51.400	17.7341	0.0284217	0.5191508	6	26.6	7.2	0.5	0.20573	127.3	122.2	0.162	1.60	1.00	127.26	0.272	0.097	1.38
51.420	16.8059	0.0287317	0.5201874	6	27.7	6.6	0.5	0.20593	134.7	129.7	0.154	1.57	1.00	134.67	0.307	0.097	1.56
51.440	18.6452	0.0285209	0.505329	6	27.5	6.7	0.5	0.20613	133.4	128.4	0.155	1.57	1.00	133.39	0.301	0.097	1.53
51.460	18.0184	0.0281799	0.5031118	6	26.9	7.0	0.5	0.20633	128.9	123.9	0.158	1.59	1.00	128.94	0.279	0.097	1.42
51.480	17.0593	0.0308212	0.4831854	6	26.2	7.8	0.5	0.20653	122.1	117.0	0.183	1.63	1.00	122.07	0.249	0.097	1.27
51.500	15.2389	0.0353473	0.5213104	6	24.8	9.6	0.5	0.20673	109.6	104.6	0.235	1.71	1.05	114.75	0.221	0.097	1.12
51.520	15.0405	0.0486963	0.5184021	6	25.7	11.1	0.5	0.20693	108.2	103.1	0.328	1.77	1.09	117.72	0.232	0.096	1.18
51.540	14.397	0.0483987	0.507766	6	25.0	11.8	0.5	0.20713	103.6	98.5	0.341	1.80	1.11	114.58	0.220	0.096	1.12
51.560	14.2216	0.0433989	0.4931486	6	24.4	11.5	0.5	0.20733	102.2	97.2	0.310	1.79	1.10	112.24	0.211	0.096	1.08
51.580	13.9844	0.0353969	0.4855466	6	23.4	10.9	0.5	0.20753	100.4	95.4	0.257	1.77	1.08	108.70	0.199	0.096	1.01
51.600	13.3705	0.0338655	0.4896356	6	22.6	11.4	0.5	0.20773	96.2	91.1	0.259	1.78	1.10	105.35	0.189	0.096	0.95
51.620	12.9985	0.037226	0.4944156	6	22.5	12.2	0.5	0.20793	93.6	88.6	0.292	1.82	1.12	104.65	0.187	0.096	0.95
51.640	12.4834	0.0382552	0.4748636	6	21.9	13.1	0.5	0.20813	89.8	84.8	0.313	1.85	1.14	102.49	0.180	0.096	0.92
51.660	12.5397	0.0520506	0.4902115	6	23.0	13.7	0.5	0.20833	90.3	85.3	0.423	1.90	1.19	107.14	0.194	0.095	0.99
51.680	12.56	0.0448584	0.5061065	6	22.6	14.8	0.5	0.20853	90.5	85.5	0.363	1.87	1.16	105.02	0.188	0.095	0.96
51.700	12.1895	0.0419939	0.515391	6	21.9	14.0	0.5	0.20873	87.8	82.8	0.351	1.88	1.17	102.40	0.180	0.095	0.92
51.720	10.8487	0.0392224	0.5135357	6	20.1	15.9	0.5	0.20893	78.6	73.6	0.369	1.93	1.22	95.84	0.162	0.095	0.82
51.740	10.4368	0.0394332	0.5176534	6	19.6	16.7	0.5	0.20913	75.7	70.7	0.386	1.95	1.24	94.31	0.158	0.094	0.81
51.760	11.4763	0.0236351	0.5190644	6	19.6	12.4	0.5	0.20933	82.9	77.9	0.210	1.82	1.12	93.07	0.155	0.094	0.79

CPT Verileri													G BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
51.780	12.0892	0.0210125	0.5124991	6	20.1	11.2	0.5	0.20953	87.1	82.0	0.177	1.78	1.09	95.05	0.160	0.093	2.40
51.800	12.1686	0.0260718	0.5143132	6	20.7	11.9	0.5	0.20973	87.6	82.6	0.218	1.80	1.11	97.10	0.165	0.093	0.81
51.820	12.4732	0.0271569	0.5161273	6	21.1	11.7	0.5	0.20993	89.6	84.6	0.221	1.79	1.10	98.88	0.170	0.093	0.87
51.840	13.3327	0.0272127	0.5218575	6	22.1	10.7	0.5	0.21013	95.6	90.6	0.207	1.76	1.08	102.96	0.181	0.092	0.93
51.860	14.7635	0.0288619	0.5221455	6	23.8	9.5	0.5	0.21033	105.4	100.4	0.198	1.71	1.04	110.10	0.204	0.092	1.04
51.880	16.9467	0.038869	0.5209649	6	27.1	8.7	0.5	0.21053	120.4	115.4	0.232	1.68	1.02	122.93	0.253	0.092	1.29
51.900	18.0129	0.0358185	0.5190932	6	27.9	7.8	0.5	0.21073	127.7	122.6	0.201	1.63	1.00	127.66	0.273	0.092	1.40
51.920	17.663	0.0362401	0.5195827	6	27.6	8.0	0.5	0.21093	125.2	120.2	0.208	1.64	1.00	124.95	0.261	0.092	1.33
51.940	15.9839	0.0411135	0.5006066	6	26.3	9.7	0.5	0.21113	113.4	108.4	0.261	1.72	1.05	119.22	0.238	0.092	1.21
51.960	14.1367	0.0462225	0.5015568	6	24.7	12.1	0.5	0.21133	100.7	95.7	0.332	1.81	1.11	112.22	0.211	0.092	1.08
51.980	13.4333	0.0427565	0.5144283	6	23.6	12.6	0.5	0.21153	95.9	90.9	0.324	1.83	1.13	108.02	0.197	0.091	1.01
52.000	12.6043	0.0308646	0.5147451	6	21.7	12.1	0.5	0.21173	90.2	85.1	0.249	1.81	1.11	100.50	0.174	0.091	0.89
52.020	12.092	0.025861	0.5306113	6	20.7	12.1	0.5	0.21193	86.7	81.7	0.217	1.81	1.11	96.53	0.164	0.091	0.84
52.040	12.1658	0.0239514	0.5096195	6	20.5	11.7	0.5	0.21213	87.0	82.0	0.201	1.80	1.10	96.12	0.163	0.091	0.83
52.060	12.7511	0.0297485	0.5241036	6	21.8	11.8	0.5	0.21233	91.1	86.1	0.237	1.80	1.11	100.81	0.175	0.090	0.90
52.080	13.8958	0.0306414	0.5219727	6	23.1	10.6	0.5	0.21253	98.9	93.9	0.224	1.76	1.08	106.40	0.192	0.090	0.98
52.100	14.9103	0.0356263	0.5256009	6	24.7	10.2	0.5	0.21273	105.8	100.8	0.242	1.74	1.06	112.61	0.213	0.090	1.09
52.120	16.9633	0.0467867	0.5309856	6	28.0	9.5	0.5	0.21293	119.9	114.9	0.279	1.71	1.04	125.16	0.262	0.090	1.34

CPT Verileri														HBÖLGESİ			
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															96	2.85	
45.390	10.41747	0.0252162	0.3778522	6	16.1	10.1	0.5	0.14863	89.9	85.0	0.246	1.73	1.06	95.37	0.161	0.086	0.77
45.410	8.7577	0.0252162	0.3778522	6	14.4	12.9	0.5	0.14863	73.7	70.7	0.295	1.84	1.13	85.85	0.139	0.095	0.66
45.430	7.4016	0.0304492	0.3726978	6	13.2	17.3	0.5	0.14803	64.3	64.3	0.424	1.97	1.26	81.27	0.130	0.095	0.62
45.450	5.848	0.0299531	0.3832945	5	11.3	22.9	0.5	0.14823	51.5	46.6	0.532	2.11	1.47	75.77	0.120	0.094	0.58
45.470	5.6458	0.0268592	0.3991031	5	10.9	22.9	0.5	0.14643	50.0	45.0	0.493	2.11	1.47	73.39	0.117	0.094	0.56
45.490	5.7308	0.0248318	0.4130976	5	10.9	21.8	0.5	0.14663	50.7	45.8	0.448	2.08	1.43	72.33	0.115	0.093	0.55
45.510	6.0548	0.0229097	0.4309219	6	11.2	19.8	0.5	0.14683	53.5	48.6	0.389	2.04	1.35	72.21	0.115	0.092	0.55
45.530	6.2505	0.0216697	0.4505027	6	11.4	18.6	0.5	0.14703	55.3	50.3	0.355	2.01	1.31	72.29	0.115	0.092	0.55
45.550	5.9412	0.0209567	0.445118	6	11.0	19.6	0.5	0.14723	52.6	47.7	0.362	2.03	1.34	70.68	0.113	0.091	0.54
45.590	6.2837	0.0212605	0.4513666	6	11.4	18.4	0.5	0.14763	55.4	50.5	0.347	2.00	1.30	72.17	0.115	0.090	0.55
45.610	7.4348	0.0200866	0.4517697	6	12.7	14.7	0.5	0.14783	64.9	59.9	0.276	1.90	1.19	76.89	0.122	0.089	0.59
45.630	7.4348	0.0202436	0.4517409	6	12.7	14.8	0.5	0.14803	64.8	59.9	0.278	1.90	1.19	76.94	0.122	0.089	0.59
45.650	9.75	0.0211303	0.4517985	6	15.2	10.5	0.5	0.14823	83.8	78.8	0.220	1.75	1.07	89.89	0.148	0.088	0.71
45.670	10.7147	0.0248132	0.4526912	6	16.5	9.8	0.5	0.14843	91.7	86.7	0.235	1.72	1.05	96.51	0.164	0.088	0.79
45.690	11.8178	0.028667	0.4529215	6	17.8	8.8	0.5	0.14863	100.7	95.7	0.229	1.68	1.02	102.97	0.162	0.087	0.87
45.710	14.35	0.0292711	0.4534399	6	20.4	6.9	0.5	0.14883	121.3	116.4	0.206	1.58	1.00	121.34	0.246	0.087	1.19
45.730	15.3035	0.0338841	0.4541597	6	21.7	6.6	0.5	0.14903	129.1	124.1	0.224	1.57	1.00	129.08	0.280	0.087	1.35
45.750	15.7042	0.0338841	0.4541597	6	22.1	6.4	0.5	0.14923	132.3	127.3	0.218	1.56	1.00	132.27	0.295	0.087	1.43
45.770	15.6331	0.0453048	0.4517985	6	23.1	7.4	0.5	0.14943	131.6	126.6	0.293	1.61	1.00	131.58	0.292	0.087	1.41
45.790	15.5297	0.0540719	0.4557435	6	23.8	8.1	0.5	0.14963	130.7	125.7	0.352	1.65	1.00	130.85	0.283	0.087	1.39
45.810	16.3448	0.0558948	0.4549948	6	24.7	7.7	0.5	0.14983	137.2	132.3	0.345	1.62	1.00	137.25	0.320	0.087	1.55
45.830	16.4039	0.0544057	0.4469033	6	24.6	7.5	0.5	0.15003	137.6	132.6	0.335	1.62	1.00	137.57	0.322	0.087	1.56
45.870	15.3359	0.0415041	0.4550524	6	22.5	7.3	0.5	0.15043	128.7	123.8	0.273	1.61	1.00	128.75	0.278	0.087	1.35
45.890	15.1669	0.0398549	0.4515394	6	22.2	7.3	0.5	0.15063	127.3	122.3	0.266	1.61	1.00	127.26	0.272	0.087	1.32
45.910	14.9675	0.0381808	0.4431311	6	21.9	7.3	0.5	0.15083	125.5	120.5	0.258	1.61	1.00	125.48	0.264	0.087	1.28
45.930	14.7395	0.0381808	0.4431311	6	21.7	7.5	0.5	0.15103	123.5	118.6	0.262	1.62	1.00	123.54	0.255	0.086	1.24
45.950	14.4912	0.0369594	0.4247309	6	21.4	7.6	0.5	0.15123	121.3	116.3	0.258	1.62	1.00	121.29	0.246	0.086	1.19
45.970	14.5309	0.0412313	0.424011	6	21.8	8.0	0.5	0.15143	121.3	116.6	0.287	1.64	1.00	121.10	0.245	0.086	1.19
45.990	14.8734	0.0503518	0.4384951	6	22.9	8.5	0.5	0.15163	124.3	119.4	0.343	1.64	1.01	126.02	0.266	0.086	1.29
45.010	15.6756	0.0524661	0.4505603	6	23.9	8.0	0.5	0.15183	130.9	125.9	0.338	1.64	1.00	130.52	0.287	0.086	1.39
45.030	17.9446	0.0519576	0.4536414	6	25.9	6.5	0.5	0.15203	149.2	144.2	0.292	1.56	1.00	149.21	0.389	0.086	1.89
45.050	17.9446	0.0516848	0.4551964	6	25.9	6.5	0.5	0.15223	149.1	144.2	0.291	1.56	1.00	149.13	0.388	0.086	1.89
45.070	20.4343	0.0529435	0.452432	6	28.2	5.3	0.5	0.15243	169.2	164.2	0.261	1.49	1.00	169.17	0.530	0.086	2.58
45.090	20.2718	0.042965	0.4391862	6	27.0	4.9	0.5	0.15263	167.6	162.7	0.214	1.46	1.00	167.64	0.518	0.086	2.52
45.110	18.6896	0.0410267	0.406893	6	25.5	5.5	0.5	0.15283	154.5	149.5	0.222	1.50	1.00	154.47	0.423	0.086	2.06
46.150	13.3585	0.0494342	0.4516258	6	21.4	9.9	0.5	0.15323	111.6	106.6	0.375	1.73	1.06	117.89	0.232	0.086	1.13
46.170	11.8686	0.0600575	0.4321601	6	20.6	13.0	0.5	0.15343	99.3	94.3	0.514	1.84	1.14	112.99	0.214	0.086	1.04
46.190	11.1652	0.0559258	0.414307	6	19.5	13.7	0.5	0.15363	93.4	88.5	0.510	1.86	1.16	108.04	0.197	0.086	0.96
46.210	12.4049	0.0543075	0.4345213	6	20.8	11.6	0.5	0.15383	103.5	98.6	0.444	1.79	1.10	114.09	0.218	0.086	1.06
46.230	14.6407	0.0445732	0.459746	6	22.4	8.3	0.5	0.15403	121.7	116.7	0.308	1.66	1.01	122.58	0.251	0.086	1.22
46.250	16.6236	0.0463279	0.4608115	6	24.4	7.0	0.5	0.15423	137.6	132.6	0.281	1.59	1.00	137.57	0.322	0.086	1.57

CPT Verileri													HBÖLGESİ			
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı
															96	2.85
45.270	17.7526	0.0619586	0.4594581	6	26.8	7.4	0.5	0.15443	146.6	141.6	0.352	1.61	1.00	146.55	0.086	1.82
45.290	19.0173	0.0604581	0.45989	6	27.8	6.5	0.5	0.15463	156.6	151.7	0.321	1.56	1.00	156.63	0.086	2.13
45.310	23.2775	0.0567752	0.4598686	6	31.0	4.5	0.5	0.15483	190.8	185.8	0.246	1.43	1.00	190.76	0.086	3.54
45.330	23.7483	0.0566831	0.4592565	6	31.4	4.4	0.5	0.15503	194.4	189.5	0.241	1.42	1.00	194.42	0.086	3.72
45.350	24.0104	0.0532597	0.4543325	6	31.2	4.2	0.5	0.15523	196.4	191.4	0.223	1.40	1.00	196.36	0.086	3.83
45.370	24.3529	0.0537309	0.4444269	6	31.5	4.1	0.5	0.15543	198.9	193.9	0.222	1.40	1.00	198.90	0.086	3.96
45.390	24.9437	0.0627955	0.4563927	6	33.0	4.3	0.5	0.15563	203.6	196.7	0.253	1.41	1.00	203.62	0.086	4.00
45.430	26.934	0.0672535	0.4690181	6	35.0	3.9	0.5	0.15603	219.4	214.4	0.251	1.38	1.00	219.38	0.086	4.00
45.450	27.7196	0.0810242	0.4499844	6	37.1	4.2	0.5	0.15623	225.4	220.4	0.294	1.40	1.00	225.37	0.086	4.00
45.470	28.1839	0.0838638	0.451309	6	37.7	4.1	0.5	0.15643	228.9	224.0	0.299	1.40	1.00	228.95	0.086	4.00
45.490	28.1839	0.078231	0.4440814	6	37.2	4.0	0.5	0.15663	228.7	223.8	0.281	1.39	1.00	228.75	0.086	4.00
45.510	28.4368	0.0699816	0.4434767	6	36.4	3.6	0.5	0.15683	230.6	225.6	0.248	1.36	1.00	230.61	0.086	4.00
45.530	29.7513	0.0647734	0.450186	6	36.7	3.2	0.5	0.15703	241.0	236.0	0.219	1.32	1.00	241.01	0.086	4.00
45.550	30.2277	0.0644138	0.4475944	6	37.0	3.1	0.5	0.15723	244.6	239.7	0.214	1.31	1.00	244.64	0.086	4.00
45.570	30.7465	0.0611959	0.4358747	7	37.0	2.9	0.5	0.15743	246.5	243.6	0.200	1.29	1.00	246.52	0.086	4.00
45.590	29.8843	0.0572526	0.4183096	7	36.0	3.0	0.5	0.15763	241.4	236.4	0.193	1.30	1.00	241.36	0.086	4.00
45.610	28.0906	0.0654865	0.3955613	6	35.7	3.6	0.5	0.15783	226.7	221.8	0.235	1.36	1.00	226.75	0.086	4.00
45.630	26.4752	0.0748612	0.3936608	6	35.6	4.4	0.5	0.15803	213.7	208.8	0.285	1.42	1.00	213.74	0.086	4.00
45.650	24.9788	0.0928557	0.4228592	6	36.2	5.5	0.5	0.15823	201.9	197.0	0.374	1.50	1.00	201.94	0.086	4.00
45.670	23.4233	0.0874476	0.4156028	6	34.4	5.9	0.5	0.15843	189.4	184.4	0.377	1.53	1.00	189.39	0.086	3.49
45.730	20.1056	0.0597699	0.4394165	6	29.0	6.1	0.5	0.15903	162.9	158.0	0.300	1.54	1.00	162.92	0.086	2.37
45.750	19.5776	0.0554669	0.4295973	6	28.2	6.2	0.5	0.15923	158.6	153.6	0.286	1.54	1.00	158.55	0.086	2.21
45.770	18.7653	0.0540905	0.4281576	6	27.3	6.5	0.5	0.15943	152.0	147.0	0.291	1.56	1.00	152.01	0.086	2.00
45.790	18.0415	0.0454288	0.410506	6	25.9	6.4	0.5	0.15963	146.0	141.1	0.255	1.55	1.00	146.04	0.086	1.82
45.810	16.8544	0.0457698	0.4139615	6	24.8	7.1	0.5	0.15983	136.6	131.6	0.275	1.60	1.00	136.59	0.086	1.56
45.830	16.3808	0.0462783	0.4111971	6	24.5	7.5	0.5	0.16003	132.7	127.8	0.286	1.61	1.00	132.74	0.086	1.46
45.850	16.0107	0.0492047	0.4201525	6	24.4	8.0	0.5	0.16023	129.8	124.8	0.311	1.64	1.00	129.80	0.085	1.39
45.870	15.538	0.0566328	0.4264586	6	24.6	8.9	0.5	0.16043	126.0	121.1	0.369	1.68	1.03	129.52	0.085	1.39
45.890	15.0423	0.0572464	0.4200416	6	24.1	9.5	0.5	0.16063	122.0	117.0	0.386	1.71	1.04	127.21	0.085	1.33
45.910	15.0423	0.0534891	0.4200373	6	23.8	9.1	0.5	0.16083	121.9	117.0	0.361	1.69	1.03	126.04	0.085	1.31
45.930	15.6746	0.049676	0.4355868	6	24.2	8.3	0.5	0.16103	127.0	122.0	0.321	1.66	1.01	127.83	0.085	1.35
45.950	15.8925	0.0439718	0.431613	6	23.9	7.7	0.5	0.16123	126.6	123.6	0.280	1.63	1.00	126.56	0.085	1.37
45.970	17.3316	0.0407663	0.4482855	6	24.9	6.5	0.5	0.16143	139.8	134.8	0.238	1.56	1.00	139.77	0.085	1.65
47.030	17.8301	0.0387016	0.4594869	6	25.2	6.1	0.5	0.16203	143.7	138.7	0.219	1.54	1.00	143.68	0.085	1.75
47.050	18.1615	0.0343553	0.4618193	6	25.0	5.7	0.5	0.16223	146.2	141.2	0.191	1.51	1.00	146.21	0.085	1.83
47.070	18.3175	0.0342809	0.4528352	6	25.2	5.6	0.5	0.16243	147.3	142.3	0.189	1.51	1.00	147.28	0.085	1.86
47.090	17.9243	0.036685	0.4374873	6	25.1	6.0	0.5	0.16263	144.0	139.0	0.208	1.53	1.00	143.98	0.085	1.76
47.110	16.067	0.0451994	0.4251629	6	24.2	7.7	0.5	0.16283	129.2	124.3	0.285	1.63	1.00	129.24	0.085	1.39
47.130	15.4623	0.0569488	0.4396181	6	24.7	9.2	0.5	0.16303	124.5	119.6	0.373	1.69	1.03	128.82	0.085	1.38
47.150	15.2731	0.0569488	0.4396181	6	24.5	9.3	0.5	0.16323	123.0	118.0	0.378	1.70	1.04	127.86	0.085	1.35
47.170	15.4679	0.057669	0.4485159	6	24.8	9.2	0.5	0.16343	124.5	119.5	0.378	1.70	1.04	129.04	0.085	1.38

CPT Verileri													H BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																96	2.85
47.190	15.8343	0.0538921	0.4610994	6	24.8	8.6	0.5	0.16363	127.4	122.4	0.344	1.67	1.02	129.63	0.283	0.085	1.40
47.210	16.8156	0.052342	0.4529791	6	25.7	7.8	0.5	0.16383	134.9	129.9	0.315	1.63	1.00	134.91	0.308	0.085	1.52
47.230	16.8156	0.0474377	0.4454924	6	25.2	7.4	0.5	0.16403	134.8	129.8	0.285	1.61	1.00	134.77	0.308	0.085	1.52
47.270	18.9748	0.0425209	0.4650732	6	26.7	5.9	0.5	0.16443	151.6	146.6	0.226	1.52	1.00	151.60	0.404	0.085	2.00
47.290	18.9748	0.0403571	0.4552252	6	26.5	5.7	0.5	0.16463	151.4	146.5	0.215	1.52	1.00	151.43	0.403	0.085	1.99
47.310	19.6524	0.0436804	0.4484583	6	27.5	5.6	0.5	0.16483	156.6	151.6	0.224	1.51	1.00	156.57	0.437	0.085	2.16
47.330	19.1114	0.0649565	0.4446861	6	29.0	7.2	0.5	0.16503	152.2	147.3	0.343	1.60	1.00	152.23	0.408	0.085	2.02
47.350	18.4994	0.0685246	0.4424113	6	28.7	7.8	0.5	0.16523	147.4	142.4	0.374	1.63	1.00	147.36	0.378	0.085	1.87
47.370	17.8172	0.0701552	0.4456651	6	28.2	8.4	0.5	0.16543	142.0	137.0	0.398	1.66	1.01	143.40	0.354	0.085	1.75
47.390	17.8172	0.0733421	0.4592853	6	28.5	8.6	0.5	0.16563	142.0	137.0	0.416	1.67	1.02	144.37	0.360	0.085	1.78
47.410	19.0994	0.0739901	0.4650732	6	29.8	7.7	0.5	0.16583	151.9	147.0	0.389	1.63	1.00	151.93	0.406	0.085	2.01
47.430	19.513	0.0692243	0.4543325	6	28.9	6.7	0.5	0.16603	150.0	150.0	0.306	1.57	1.00	154.96	0.426	0.085	2.11
47.450	19.1637	0.0530675	0.4360187	6	28.0	6.5	0.5	0.16623	152.1	147.1	0.280	1.56	1.00	152.06	0.407	0.085	2.02
47.470	18.6056	0.0529373	0.4321313	6	27.5	6.8	0.5	0.16643	147.6	142.6	0.288	1.58	1.00	147.57	0.379	0.085	1.88
47.490	18.42	0.0558452	0.4547644	6	27.7	7.1	0.5	0.16663	146.2	141.2	0.306	1.60	1.00	146.22	0.371	0.085	1.84
47.510	19.9234	0.0512318	0.466225	6	28.6	6.0	0.5	0.16683	157.9	152.9	0.260	1.53	1.00	157.90	0.446	0.085	2.21
47.550	19.5056	0.042893	0.4761882	6	27.4	5.7	0.5	0.16723	154.5	149.5	0.222	1.52	1.00	154.52	0.423	0.085	2.10
47.570	19.5056	0.0516476	0.4503588	6	28.3	6.3	0.5	0.16743	154.2	149.3	0.267	1.55	1.00	154.23	0.421	0.085	2.09
47.590	19.2979	0.0516538	0.4457227	6	28.1	6.4	0.5	0.16763	152.5	147.5	0.270	1.56	1.00	152.49	0.410	0.085	2.03
47.610	18.9868	0.0672287	0.4612722	6	26.3	7.5	0.5	0.16783	150.1	145.2	0.358	1.62	1.00	150.12	0.395	0.085	1.96
47.630	18.5908	0.0725539	0.4509059	6	29.3	8.1	0.5	0.16803	146.9	141.9	0.395	1.65	1.00	147.10	0.376	0.085	1.87
47.650	18.2308	0.0769452	0.4590262	6	29.3	8.6	0.5	0.16823	144.1	139.1	0.426	1.67	1.02	146.74	0.374	0.085	1.86
47.670	17.9538	0.0743279	0.4689029	6	28.9	8.7	0.5	0.16843	142.0	137.0	0.418	1.67	1.02	144.75	0.362	0.085	1.80
47.690	16.8442	0.063862	0.466081	6	26.9	8.8	0.5	0.16863	133.3	128.3	0.383	1.68	1.02	136.51	0.317	0.085	1.57
47.710	16.5091	0.0563598	0.4602068	6	26.0	8.6	0.5	0.16883	130.6	125.6	0.345	1.67	1.02	132.60	0.297	0.085	1.48
47.730	16.8332	0.0549833	0.4659658	6	26.2	8.2	0.5	0.16903	133.1	128.1	0.330	1.62	1.00	133.60	0.302	0.085	1.50
47.750	17.7784	0.0538797	0.4678663	6	27.1	7.5	0.5	0.16923	140.3	135.3	0.306	1.62	1.00	140.26	0.337	0.085	1.67
47.770	18.6416	0.0547725	0.4666857	6	28.0	7.0	0.5	0.16943	146.8	141.8	0.297	1.59	1.00	146.80	0.374	0.085	1.86
47.790	18.3289	0.0553001	0.4522305	6	28.2	7.0	0.5	0.16963	148.0	143.1	0.297	1.59	1.00	148.04	0.382	0.085	1.90
47.830	14.1866	0.0567318	0.4716673	6	23.7	10.8	0.5	0.17003	112.4	107.4	0.405	1.76	1.03	121.28	0.246	0.085	1.22
47.850	16.1602	0.0571286	0.4659946	6	25.8	9.0	0.5	0.17023	127.4	122.5	0.358	1.69	1.03	130.99	0.289	0.085	1.44
47.870	15.2925	0.0519782	0.455254	6	24.5	9.3	0.5	0.17043	120.6	115.7	0.344	1.70	1.04	125.22	0.269	0.085	1.31
47.890	14.8641	0.0441702	0.4593429	6	23.4	9.0	0.5	0.17063	117.3	112.3	0.301	1.69	1.03	120.71	0.244	0.085	1.21
47.910	15.0598	0.0377468	0.4701987	6	23.1	8.2	0.5	0.17083	118.8	113.8	0.254	1.65	1.01	119.42	0.238	0.084	1.19
47.930	14.5429	0.0335423	0.4619633	6	22.2	8.3	0.5	0.17103	114.7	109.8	0.234	1.65	1.01	115.51	0.223	0.084	1.11
47.950	14.0167	0.032272	0.4691621	6	21.5	8.6	0.5	0.17123	110.7	105.7	0.233	1.67	1.02	112.59	0.213	0.084	1.06
47.970	14.878	0.0325682	0.4757562	6	22.4	7.9	0.5	0.17143	117.3	112.3	0.222	1.64	1.00	117.27	0.230	0.084	1.15
47.990	16.6845	0.0336919	0.4754107	6	24.3	6.8	0.5	0.17163	131.0	126.0	0.204	1.58	1.00	130.98	0.289	0.084	1.44
48.010	16.8959	0.0336795	0.4703715	6	24.3	6.8	0.5	0.17183	132.5	127.5	0.202	1.57	1.00	132.48	0.296	0.084	1.48
48.030	15.634	0.0324084	0.4359611	6	23.1	7.4	0.5	0.17203	122.5	117.5	0.210	1.61	1.00	122.52	0.251	0.084	1.25
48.050	14.2641	0.0324084	0.4359611	6	21.8	8.5	0.5	0.17223	112.0	107.0	0.231	1.66	1.01	113.49	0.216	0.084	1.08

CPT Verileri													H BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Dirençli	Koni Uç	Sürtünme	Boşluk			%		[MPa]			%					96	2.85
Dirençli	Dirençli	Katsayısı	Suyu Basıncı														
48.070	12.8711	0.0302074	0.3912132	6	20.2	9.6	0.5	0.17243	101.0	96.0	0.240	1.71	1.05	105.78	0.190	0.084	0.95
48.150	8.3875	0.0340387	0.4741725	6	15.6	17.6	0.5	0.17323	67.3	62.4	0.415	1.98	1.23	85.88	0.139	0.083	0.69
48.170	8.3875	0.032334	0.4574424	6	15.5	17.3	0.5	0.17343	67.2	62.2	0.395	1.97	1.27	85.02	0.137	0.082	0.69
48.190	7.4376	0.0315094	0.4534975	6	14.2	20.0	0.5	0.17363	59.9	54.9	0.435	2.04	1.36	81.18	0.130	0.082	0.65
48.210	8.357	0.0288681	0.4702863	6	15.2	16.7	0.5	0.17383	67.0	62.0	0.353	1.96	1.25	83.39	0.134	0.081	0.67
48.230	11.504	0.0277521	0.4792405	6	18.7	10.9	0.5	0.17403	90.8	85.9	0.245	1.76	1.08	88.27	0.168	0.081	0.84
48.250	16.2544	0.0277521	0.4792405	6	23.4	6.7	0.5	0.17423	126.8	121.8	0.173	1.57	1.00	126.77	0.269	0.080	1.35
48.270	20.1822	0.0311746	0.4794708	6	27.2	5.0	0.5	0.17443	156.4	151.5	0.156	1.47	1.00	156.44	0.436	0.080	2.18
48.290	22.6562	0.0372532	0.4790002	6	30.0	4.5	0.5	0.17463	175.0	170.1	0.166	1.43	1.00	175.05	0.579	0.080	2.90
48.310	22.4171	0.0422295	0.4663978	6	30.3	4.8	0.5	0.17483	173.1	168.1	0.190	1.45	1.00	173.07	0.562	0.080	2.82
48.330	22.1513	0.0550489	0.4565785	6	31.3	5.5	0.5	0.17503	170.9	165.9	0.242	1.50	1.00	170.88	0.544	0.080	2.73
48.350	21.4534	0.0550489	0.4565785	6	30.7	5.8	0.5	0.17523	165.5	160.5	0.250	1.52	1.00	165.52	0.502	0.080	2.51
48.370	20.4823	0.0681339	0.4439374	6	31.2	7.1	0.5	0.17543	158.0	153.0	0.336	1.59	1.00	157.99	0.447	0.080	2.24
48.390	19.0394	0.0658337	0.4324193	6	28.7	7.8	0.5	0.17563	146.9	142.0	0.350	1.63	1.00	146.93	0.375	0.080	1.88
48.430	17.447	0.0700374	0.476319	6	28.5	9.2	0.5	0.17603	135.1	130.1	0.406	1.69	1.03	139.72	0.334	0.080	1.67
48.450	16.307	0.0745535	0.458911	6	28.2	9.9	0.5	0.17623	130.3	125.8	0.446	1.73	1.06	136.96	0.326	0.080	1.63
48.470	16.7519	0.0725299	0.467204	6	27.9	9.9	0.5	0.17643	129.6	124.7	0.438	1.73	1.05	136.96	0.319	0.080	1.60
48.490	17.7581	0.0743899	0.4775703	6	29.1	9.2	0.5	0.17663	137.2	132.2	0.423	1.70	1.04	142.25	0.348	0.080	1.75
48.510	19.3865	0.0678425	0.4889733	6	30.3	7.7	0.5	0.17683	149.5	144.5	0.353	1.63	1.00	149.46	0.391	0.080	1.96
48.530	21.5863	0.0678425	0.4889733	6	32.4	6.5	0.5	0.17703	165.9	160.9	0.317	1.56	1.00	165.91	0.505	0.080	2.54
48.550	24.2301	0.0593731	0.4830127	6	33.9	5.1	0.5	0.17723	185.6	180.7	0.247	1.47	1.00	185.63	0.675	0.080	3.39
48.570	28.0334	0.0525715	0.4848556	6	36.1	3.7	0.5	0.17743	214.1	209.1	0.189	1.37	1.00	214.10	0.993	0.080	4.00
48.590	28.2402	0.0430914	0.4786646	6	35.1	3.4	0.5	0.17763	215.5	210.5	0.154	1.33	1.00	215.48	1.010	0.080	4.00
48.610	27.8617	0.0530489	0.4532671	6	36.1	3.8	0.5	0.17783	212.3	207.4	0.192	1.37	1.00	212.33	0.970	0.080	4.00
48.630	27.5885	0.0534519	0.4555995	6	35.9	3.9	0.5	0.17803	210.2	205.2	0.195	1.38	1.00	210.18	0.944	0.080	4.00
48.650	26.6423	0.0570976	0.4550812	6	35.7	4.3	0.5	0.17823	205.0	198.0	0.216	1.41	1.00	202.97	0.858	0.080	4.00
48.690	23.3486	0.0682827	0.4616753	6	34.1	5.8	0.5	0.17863	178.2	173.2	0.295	1.52	1.00	178.15	0.606	0.080	3.05
48.710	22.2482	0.0737513	0.4497253	6	33.6	6.6	0.5	0.17883	165.7	164.8	0.335	1.57	1.00	169.73	0.555	0.080	2.69
48.730	22.4181	0.0825672	0.4453772	6	34.6	7.0	0.5	0.17903	170.9	165.9	0.372	1.59	1.00	170.88	0.544	0.080	2.74
48.750	23.8461	0.1131164	0.4854027	6	38.4	7.6	0.5	0.17923	181.7	176.8	0.478	1.62	1.00	181.75	0.638	0.080	3.21
48.770	27.6965	0.1055769	0.4795284	6	41.5	5.7	0.5	0.17943	210.3	205.4	0.384	1.52	1.00	210.35	0.946	0.080	4.00
48.790	27.6965	0.0921597	0.4805075	6	40.3	5.3	0.5	0.17963	210.2	205.3	0.335	1.49	1.00	210.24	0.944	0.080	4.00
48.810	29.0027	0.0875592	0.4790389	6	41.0	4.7	0.5	0.17983	219.3	214.9	0.304	1.45	1.00	219.65	1.068	0.080	4.00
48.830	29.455	0.0827354	0.4759866	6	40.9	4.5	0.5	0.18003	223.1	218.1	0.283	1.43	1.00	223.07	1.112	0.080	4.00
48.850	29.7855	0.0810924	0.4746332	6	41.0	4.3	0.5	0.18023	225.4	220.4	0.274	1.42	1.00	225.40	1.145	0.080	4.00
48.870	30.467	0.0902562	0.4775127	6	42.5	4.4	0.5	0.18043	230.4	225.5	0.298	1.43	1.00	230.44	1.218	0.080	4.00
48.890	31.0077	0.0935547	0.4725024	6	43.3	4.4	0.5	0.18063	234.2	229.2	0.304	1.42	1.00	234.23	1.275	0.080	4.00
48.910	31.0742	0.0912545	0.4605811	6	43.1	4.3	0.5	0.18083	234.5	229.5	0.296	1.42	1.00	234.51	1.279	0.080	4.00
48.930	24.544	0.0787487	0.5918014	6	36.5	5.9	0.5	0.18103	186.8	181.8	0.322	1.52	1.00	186.82	0.686	0.080	3.46
48.950	28.7396	0.0597599	0.4790101	6	37.9	3.9	0.5	0.18123	217.0	212.1	0.209	1.38	1.00	217.04	1.031	0.080	4.00
48.970	29.6701	0.0587779	0.4684998	6	38.5	3.7	0.5	0.18143	223.8	218.8	0.199	1.36	1.00	223.75	1.122	0.080	4.00

CPT Verileri													H BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/es	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Konu Uç	Sürtünme	Boşluk													96	2.85
Katsayısı	Suyu Basıncı																
48.990	29.804	0.0652695	0.4632879	6	39.3	3.8	0.5	0.18163	224.6	219.6	0.221	1.38	1.00	224.58	1.133	0.080	4.00
49.010	29.4652	0.0703784	0.4415474	6	39.7	4.1	0.5	0.18183	217.1	216.8	0.241	1.40	1.00	221.79	1.095	0.080	4.00
49.030	28.8467	0.065102	0.4406259	6	38.6	4.1	0.5	0.18203	217.1	212.1	0.228	1.40	1.00	217.07	1.031	0.080	4.00
49.050	26.8647	0.0656787	0.4348381	6	37.1	4.6	0.5	0.18223	202.2	197.2	0.247	1.44	1.00	202.23	0.849	0.080	4.00
49.070	25.6998	0.0710046	0.4159484	6	36.7	5.2	0.5	0.18243	193.4	188.4	0.279	1.48	1.00	193.35	0.752	0.080	3.80
49.090	24.3289	0.076664	0.404603	6	36.1	6.0	0.5	0.18263	183.0	178.0	0.319	1.53	1.00	183.02	0.650	0.080	3.29
49.110	22.6728	0.0784449	0.4113411	6	34.7	6.8	0.5	0.18283	170.7	165.7	0.350	1.58	1.00	170.72	0.543	0.080	2.74
49.130	23.1575	0.082754	0.4543037	6	35.6	6.8	0.5	0.18303	174.5	169.5	0.361	1.58	1.00	174.53	0.574	0.080	2.91
49.150	24.4305	0.082754	0.4543037	6	36.8	6.2	0.5	0.18323	183.8	178.9	0.342	1.55	1.00	183.84	0.658	0.080	3.33
49.170	26.3783	0.0752394	0.4853163	6	37.9	5.2	0.5	0.18343	198.3	193.4	0.287	1.48	1.00	198.35	0.806	0.080	4.00
49.190	28.9039	0.0729019	0.4748348	6	39.7	4.4	0.5	0.18363	216.8	211.8	0.254	1.42	1.00	216.80	1.028	0.080	4.00
49.210	30.2969	0.0715379	0.4742301	6	40.7	4.0	0.5	0.18383	227.0	222.0	0.238	1.39	1.00	226.95	1.167	0.080	4.00
49.230	30.5222	0.0654493	0.4644109	6	40.1	3.8	0.5	0.18403	228.4	223.4	0.216	1.37	1.00	228.42	1.188	0.080	4.00
49.250	29.7772	0.0643952	0.4524896	6	39.5	3.9	0.5	0.18423	222.7	217.7	0.218	1.38	1.00	222.72	1.107	0.080	4.00
49.270	28.9307	0.0615927	0.4421233	6	38.5	4.0	0.5	0.18443	216.3	211.3	0.215	1.39	1.00	216.29	1.021	0.080	4.00
49.290	25.8041	0.0607371	0.4246445	6	36.3	4.9	0.5	0.18463	193.0	188.0	0.238	1.46	1.00	193.03	0.749	0.080	3.80
49.310	25.8041	0.0640046	0.4112835	6	35.3	5.0	0.5	0.18483	192.8	187.8	0.251	1.47	1.00	192.83	0.747	0.080	3.79
49.330	21.2577	0.0707318	0.3970298	6	32.8	7.2	0.5	0.18503	159.2	154.2	0.337	1.60	1.00	159.20	0.455	0.080	2.31
49.350	20.1324	0.0757168	0.3963256	6	32.1	8.1	0.5	0.18523	150.9	145.9	0.381	1.65	1.00	151.13	0.401	0.080	2.03
49.370	20.2007	0.0752456	0.4432751	6	32.2	8.1	0.5	0.18543	151.6	146.6	0.377	1.64	1.00	151.42	0.403	0.080	2.04
49.390	21.6509	0.0698452	0.46467	6	33.2	7.0	0.5	0.18563	162.3	157.3	0.326	1.59	1.00	162.32	0.478	0.080	2.42
49.410	21.8789	0.0585732	0.4811698	6	32.4	6.2	0.5	0.18583	164.0	159.0	0.270	1.55	1.00	164.03	0.490	0.080	2.49
49.430	22.551	0.0585174	0.4822352	6	33.0	6.0	0.5	0.18603	166.9	163.9	0.262	1.53	1.00	166.87	0.528	0.080	2.68
49.450	24.8302	0.0537619	0.4921112	6	34.5	4.9	0.5	0.18623	165.6	160.6	0.216	1.46	1.00	165.56	0.674	0.080	3.42
49.470	26.8195	0.0533341	0.4951931	6	36.1	4.3	0.5	0.18643	200.0	195.1	0.200	1.41	1.00	200.05	0.825	0.080	4.00
49.490	28.2642	0.0353225	0.481141	6	35.1	3.3	0.5	0.18663	210.4	205.4	0.126	1.33	1.00	210.42	0.946	0.080	4.00
49.510	30.4917	0.0431038	0.4855466	6	37.7	3.2	0.5	0.18683	226.6	221.6	0.142	1.31	1.00	226.63	1.163	0.080	4.00
49.530	31.0991	0.0468921	0.4694501	6	38.6	3.2	0.5	0.18703	230.8	225.8	0.152	1.31	1.00	230.83	1.224	0.080	4.00
49.550	30.5378	0.052404	0.4534399	6	39.8	3.4	0.5	0.18723	226.5	221.5	0.173	1.34	1.00	226.49	1.161	0.080	4.00
49.570	29.6969	0.0654617	0.4460971	6	38.8	4.0	0.5	0.18743	220.2	215.2	0.222	1.39	1.00	220.17	1.073	0.080	4.00
49.590	28.6261	0.0711534	0.4488902	6	39.6	4.5	0.5	0.18763	212.3	207.3	0.251	1.43	1.00	212.26	0.969	0.080	4.00
49.610	28.4479	0.075475	0.4510786	6	40.0	4.7	0.5	0.18783	210.9	205.9	0.267	1.45	1.00	210.86	0.952	0.080	4.00
49.630	27.8153	0.0826052	0.4694213	6	41.1	4.9	0.5	0.18803	213.6	208.6	0.289	1.46	1.00	213.56	0.986	0.080	4.00
49.650	26.6282	0.0790029	0.4580759	6	39.7	5.1	0.5	0.18823	204.7	199.7	0.288	1.47	1.00	204.72	0.878	0.080	4.00
49.670	26.3367	0.077087	0.4473065	6	38.4	5.4	0.5	0.18843	195.1	190.1	0.295	1.50	1.00	195.12	0.771	0.080	3.92
49.690	24.2975	0.0713828	0.4963737	6	36.1	6.0	0.5	0.18863	180.4	175.4	0.296	1.53	1.00	180.43	0.826	0.080	3.18
49.710	24.8902	0.0737761	0.4723872	6	36.8	5.8	0.5	0.18903	184.5	179.5	0.299	1.52	1.00	184.47	0.664	0.080	3.38
49.730	24.2412	0.0672659	0.4528927	6	35.6	5.8	0.5	0.18923	179.5	174.5	0.280	1.52	1.00	179.51	0.618	0.080	3.14
49.750	23.5249	0.0664475	0.4453484	6	34.9	6.1	0.5	0.18943	174.2	169.2	0.285	1.54	1.00	174.16	0.571	0.080	2.91
49.770	23.3873	0.0731065	0.4690469	6	35.4	6.5	0.5	0.18963	173.2	168.2	0.316	1.56	1.00	173.24	0.564	0.080	2.87
49.810	26.5703	0.0730755	0.4911617	6	38.3	5.2	0.5	0.18983	196.4	191.4	0.277	1.48	1.00	196.41	0.785	0.080	3.99

CPT Verileri														HBÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	σ'_{v0}	qc1N	Q	F	Ic	Kc	(qc1N) ^{0.5}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
	Kont.Uç	Sürtünme	Boşluk			[%]		[MPa]			[%]					96	2.85
	Direnci	Katsayısı	Suyu Basıncı														
49.830	28.8928	0.0724121	0.489722	6	40.2	4.5	0.5	0.19003	213.1	208.2	0.252	1.43	1.00	213.15	0.981	0.080	4.00
49.850	30.6652	0.0594961	0.4799028	6	40.1	3.7	0.5	0.19023	235.8	220.8	0.195	1.36	1.00	225.81	1.151	0.080	4.00
49.870	31.34	0.0599373	0.4695652	6	40.7	3.6	0.5	0.19043	230.5	225.5	0.193	1.35	1.00	230.51	1.219	0.080	4.00
49.890	30.2092	0.0714014	0.4506755	6	41.2	4.2	0.5	0.19063	222.1	217.1	0.238	1.41	1.00	222.06	1.098	0.080	4.00
49.910	29.1199	0.0748736	0.4384951	6	40.7	4.6	0.5	0.19083	214.0	209.0	0.259	1.44	1.00	213.97	0.991	0.080	4.00
49.930	27.7408	0.0838266	0.4134144	6	40.5	5.3	0.5	0.19103	203.7	198.7	0.305	1.49	1.00	203.70	0.866	0.080	4.00
49.970	23.5332	0.0817372	0.4632015	6	36.5	6.9	0.5	0.19143	173.4	168.4	0.351	1.58	1.00	173.44	0.565	0.080	2.68
49.990	22.443	0.081421	0.4422673	6	35.4	7.4	0.5	0.19163	165.3	160.3	0.367	1.61	1.00	165.32	0.500	0.080	2.55
50.010	20.2967	0.0817248	0.4256236	6	33.2	8.7	0.5	0.19183	149.6	144.6	0.408	1.67	1.02	152.44	0.409	0.080	2.09
50.030	19.0034	0.0735281	0.4181368	6	31.2	9.1	0.5	0.19203	140.2	135.2	0.393	1.69	1.03	144.49	0.361	0.080	1.84
50.050	18.156	0.0735281	0.4181368	6	30.3	9.7	0.5	0.19223	134.0	129.0	0.411	1.72	1.05	140.62	0.339	0.080	1.73
50.070	17.3621	0.0554793	0.4273801	6	28.0	9.0	0.5	0.19243	128.2	123.2	0.325	1.69	1.03	132.05	0.294	0.080	1.50
50.090	16.9873	0.051691	0.4474216	6	27.3	9.0	0.5	0.19263	125.6	120.6	0.309	1.69	1.03	129.30	0.281	0.080	1.43
50.110	17.0999	0.0517654	0.4565785	6	27.5	8.9	0.5	0.19283	126.4	121.4	0.307	1.68	1.03	129.84	0.284	0.080	1.45
50.130	17.616	0.0528815	0.4901539	6	28.2	8.6	0.5	0.19303	130.3	125.3	0.304	1.67	1.02	132.56	0.297	0.080	1.51
50.150	18.252	0.0532237	0.4917088	6	26.9	8.2	0.5	0.19323	134.8	129.8	0.295	1.65	1.00	135.35	0.311	0.080	1.58
50.170	18.1006	0.0485909	0.4879654	6	28.3	8.0	0.5	0.19343	133.7	128.7	0.272	1.64	1.00	133.65	0.302	0.080	1.54
50.190	18.1006	0.046055	0.4786646	6	28.1	7.8	0.5	0.19363	133.5	128.5	0.258	1.63	1.00	133.52	0.301	0.080	1.54
50.230	17.1553	0.0460426	0.4943292	6	27.1	8.5	0.5	0.19403	126.7	121.7	0.272	1.66	1.01	128.26	0.276	0.080	1.41
50.250	17.7406	0.0523358	0.4997427	6	28.3	8.5	0.5	0.19423	130.9	125.9	0.298	1.67	1.01	132.79	0.298	0.080	1.52
50.270	19.2499	0.0600551	0.4927167	6	30.5	8.1	0.5	0.19443	141.6	136.6	0.315	1.64	1.00	141.49	0.343	0.080	1.75
50.290	20.5321	0.0674953	0.4869864	6	32.5	7.8	0.5	0.19463	150.7	145.7	0.332	1.63	1.00	150.66	0.398	0.080	2.03
50.310	21.6445	0.0657965	0.4720128	6	33.4	7.1	0.5	0.19483	168.4	153.4	0.307	1.59	1.00	158.45	0.450	0.080	2.30
50.330	22.7402	0.0650834	0.4697668	6	34.4	6.5	0.5	0.19503	166.2	161.2	0.288	1.56	1.00	166.20	0.507	0.080	2.59
50.350	23.5618	0.0633908	0.4842796	6	35.1	6.1	0.5	0.19523	172.1	167.1	0.272	1.54	1.00	172.10	0.554	0.080	2.83
50.370	25.0776	0.0650586	0.4763609	6	36.6	5.6	0.5	0.19543	182.8	177.8	0.262	1.51	1.00	182.79	0.648	0.080	3.31
50.390	28.627	0.0666631	0.4887429	6	39.9	4.6	0.5	0.19563	208.2	203.2	0.235	1.43	1.00	208.17	0.919	0.080	4.00
50.410	30.9394	0.0752828	0.4897508	6	42.7	4.3	0.5	0.19583	224.6	219.6	0.245	1.41	1.00	224.59	1.134	0.080	4.00
50.430	32.0361	0.0798337	0.4869864	6	44.1	4.2	0.5	0.19603	232.3	227.3	0.251	1.40	1.00	232.29	1.246	0.080	4.00
50.450	33.9497	0.0641339	0.4798164	7	42.5	3.1	0.5	0.19623	248.8	240.8	0.160	1.31	1.00	245.78	1.461	0.080	4.00
50.510	34.6014	0.0710448	0.4694501	6	45.1	3.4	0.5	0.19683	256.0	245.0	0.207	1.34	1.00	249.98	1.533	0.080	4.00
50.530	33.9211	0.0752022	0.4583927	6	45.1	3.7	0.5	0.19703	244.9	239.9	0.223	1.36	1.00	244.93	1.446	0.080	4.00
50.550	33.0543	0.0731623	0.4530943	6	44.2	3.8	0.5	0.19723	238.6	233.6	0.223	1.37	1.00	238.59	1.343	0.080	4.00
50.570	31.5893	0.064389	0.4408275	6	42.1	3.8	0.5	0.19743	228.0	223.0	0.206	1.38	1.00	227.96	1.182	0.080	4.00
50.590	30.7945	0.0606069	0.4332255	6	41.0	3.9	0.5	0.19763	222.1	217.1	0.199	1.38	1.00	222.13	1.099	0.080	4.00
50.610	30.2406	0.0577796	0.4460683	6	40.3	3.9	0.5	0.19783	216.2	213.2	0.181	1.38	1.00	218.17	1.046	0.080	4.00
50.630	29.5935	0.0530489	0.4291078	6	39.2	3.9	0.5	0.19803	213.3	208.3	0.181	1.38	1.00	213.35	0.983	0.080	4.00
50.650	28.465	0.0450258	0.4376024	6	37.4	3.9	0.5	0.19823	205.5	200.5	0.160	1.38	1.00	205.50	0.887	0.080	4.00
50.670	27.3106	0.0404873	0.4441678	6	36.0	4.0	0.5	0.19843	197.0	192.0	0.150	1.39	1.00	197.03	0.791	0.080	4.00
50.690	22.995	0.0490621	0.3971738	6	33.2	5.8	0.5	0.19863	166.0	161.0	0.216	1.52	1.00	165.98	0.505	0.080	2.59
50.710	18.9102	0.058412	0.3775066	6	30.2	8.4	0.5	0.19883	136.8	131.8	0.314	1.66	1.01	138.42	0.327	0.080	1.67

CPT Verileri													HBÖLGESİ			
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı
															96	2.85
50.750	17.147	0.0761384	0.559637	6	29.9	11.0	0.5	0.19923	125.4	120.4	0.448	1.77	1.08	136.01	0.080	1.61
50.770	17.463	0.0748798	0.4909314	6	30.1	10.6	0.5	0.19943	127.3	122.3	0.434	1.76	1.08	136.91	0.080	1.63
50.790	18.4468	0.083839	0.5029102	6	31.8	10.4	0.5	0.19963	134.1	129.1	0.460	1.75	1.07	143.55	0.080	1.82
50.810	22.4365	0.0758408	0.4134432	6	35.4	7.4	0.5	0.19983	161.6	156.6	0.343	1.61	1.00	161.64	0.080	2.42
50.830	25.1016	0.070335	0.3830353	6	37.4	6.0	0.5	0.20003	180.2	175.2	0.284	1.53	1.00	180.19	0.080	3.20
50.850	25.9001	0.0625724	0.362229	6	37.4	5.4	0.5	0.20023	185.7	180.7	0.245	1.49	1.00	185.74	0.080	3.46
50.870	26.0764	0.0604581	0.3893703	6	37.3	5.2	0.5	0.20043	186.9	181.9	0.235	1.48	1.00	186.94	0.080	3.52
50.890	26.5675	0.057079	0.4540446	6	37.4	4.9	0.5	0.20063	190.8	185.8	0.217	1.46	1.00	190.77	0.080	3.72
50.910	27.8968	0.0530923	0.4926303	6	38.2	4.4	0.5	0.20083	200.3	195.3	0.192	1.42	1.00	200.33	0.080	4.00
50.930	29.9803	0.0514244	0.4963449	6	39.6	3.8	0.5	0.20103	214.9	209.9	0.173	1.38	1.00	214.95	0.080	4.00
50.950	30.4898	0.0487955	0.4806514	6	39.7	3.7	0.5	0.20123	218.3	213.3	0.161	1.36	1.00	218.32	0.080	4.00
50.970	29.8667	0.051722	0.4600628	6	39.6	3.9	0.5	0.20143	213.7	208.7	0.175	1.38	1.00	213.68	0.080	4.00
51.030	25.8151	0.0660321	0.489722	6	37.9	5.6	0.5	0.20203	185.1	180.1	0.258	1.51	1.00	185.07	0.080	3.43
51.050	25.8899	0.0737141	0.4822352	6	38.7	5.9	0.5	0.20223	185.4	180.4	0.287	1.53	1.00	185.45	0.080	3.45
51.070	27.7426	0.0969525	0.5005202	6	42.7	6.1	0.5	0.20243	198.5	193.5	0.352	1.54	1.00	198.51	0.080	4.00
51.090	29.6507	0.0997797	0.5000019	6	44.7	5.6	0.5	0.20263	211.8	206.8	0.339	1.51	1.00	211.81	0.080	4.00
51.110	31.173	0.0940136	0.4860362	6	45.5	5.0	0.5	0.20283	222.3	217.3	0.304	1.47	1.00	222.30	0.080	4.00
51.130	30.8379	0.0933005	0.484366	6	45.2	5.1	0.5	0.20303	219.8	214.8	0.305	1.47	1.00	219.82	0.080	4.00
51.150	30.0975	0.0939702	0.4837325	6	44.6	5.3	0.5	0.20323	214.5	209.5	0.315	1.49	1.00	214.52	0.080	4.00
51.170	29.3646	0.0937284	0.4832718	6	44.0	5.5	0.5	0.20343	209.3	204.3	0.322	1.50	1.00	209.27	0.080	4.00
51.190	29.6156	0.0932571	0.4776855	6	44.1	5.4	0.5	0.20363	210.9	205.9	0.317	1.50	1.00	210.89	0.080	4.00
51.210	28.6796	0.0916699	0.4589686	6	43.1	5.7	0.5	0.20383	204.1	199.1	0.323	1.51	1.00	204.10	0.080	4.00
51.230	27.6568	0.0890534	0.458767	6	42.0	5.9	0.5	0.20403	196.8	191.8	0.325	1.53	1.00	196.83	0.080	4.00
51.250	27.196	0.0894998	0.4459819	6	41.6	6.1	0.5	0.20423	193.4	188.4	0.332	1.54	1.00	193.44	0.080	3.87
51.290	23.739	0.0843971	0.5069416	6	37.8	7.4	0.5	0.20463	169.5	164.5	0.359	1.61	1.00	169.49	0.080	2.74
51.310	27.8442	0.087429	0.4920832	6	42.1	5.8	0.5	0.20483	198.0	193.0	0.317	1.52	1.00	197.99	0.080	4.00
51.330	30.1603	0.0930277	0.4899523	6	44.7	5.3	0.5	0.20503	214.1	209.0	0.311	1.49	1.00	214.05	0.080	4.00
51.350	30.9126	0.0943732	0.4717249	6	45.5	5.1	0.5	0.20523	219.1	214.1	0.308	1.48	1.00	219.07	0.080	4.00
51.370	30.5138	0.0965362	0.4655915	6	45.4	5.3	0.5	0.20543	216.1	211.1	0.319	1.49	1.00	216.14	0.080	4.00
51.390	29.2113	0.0912111	0.4642093	6	43.7	5.6	0.5	0.20563	206.9	201.9	0.315	1.50	1.00	206.94	0.080	4.00
51.410	28.6787	0.0953342	0.4791829	6	43.7	5.9	0.5	0.20583	203.2	198.2	0.335	1.52	1.00	203.24	0.080	4.00
51.430	29.165	0.0934803	0.4803635	6	43.9	5.7	0.5	0.20603	206.5	201.4	0.323	1.51	1.00	206.46	0.080	4.00
51.450	29.564	0.087204	0.4814865	6	43.8	5.3	0.5	0.20623	209.2	204.2	0.299	1.49	1.00	209.22	0.080	4.00
51.470	30.3495	0.0821712	0.485921	6	43.9	4.9	0.5	0.20643	214.6	209.6	0.273	1.46	1.00	214.62	0.080	4.00
51.490	30.3698	0.0890702	0.4718977	6	42.5	4.5	0.5	0.20663	214.6	209.5	0.229	1.43	1.00	214.56	0.080	4.00
51.510	29.0756	0.0649656	0.4583639	6	41.0	4.7	0.5	0.20683	205.4	200.3	0.225	1.44	1.00	205.36	0.080	4.00
51.570	25.301	0.0629816	0.517711	6	37.5	5.8	0.5	0.20743	179.3	174.2	0.251	1.52	1.00	179.27	0.080	3.17
51.590	24.7065	0.064761	0.4775991	6	37.1	6.1	0.5	0.20763	174.8	169.8	0.265	1.54	1.00	174.78	0.080	2.97
51.610	24.0114	0.0644138	0.4773505	6	36.4	6.4	0.5	0.20783	169.8	164.8	0.271	1.56	1.00	169.83	0.080	2.76
51.630	24.136	0.0647486	0.4879079	6	36.6	6.4	0.5	0.20803	170.7	165.7	0.271	1.55	1.00	170.72	0.080	2.80
51.650	24.8717	0.0591085	0.498015	6	36.8	5.8	0.5	0.20823	175.8	170.8	0.240	1.52	1.00	175.81	0.080	3.01

CPT Verileri													H BÖLGESİ				
Derinlik m	qc Koni Üç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
51.670	25.2991	0.0566016	0.4954522	6	36.9	5.5	0.5	0.20843	178.7	173.6	0.226	1.50	1.00	178.67	0.610	0.080	2.85
51.690	25.8225	0.0481135	0.4932926	6	36.4	5.0	0.5	0.20863	182.2	177.2	0.188	1.47	1.00	182.19	0.642	0.080	3.14
51.710	26.3598	0.0463589	0.5010673	6	36.7	4.8	0.5	0.20883	185.9	180.9	0.177	1.45	1.00	185.88	0.677	0.080	3.31
51.730	26.8241	0.0448398	0.5023631	6	37.0	4.6	0.5	0.20903	189.0	184.0	0.169	1.44	1.00	189.01	0.708	0.080	3.49
51.750	27.498	0.0490187	0.5070567	6	38.0	4.6	0.5	0.20923	193.6	188.6	0.180	1.44	1.00	193.61	0.755	0.080	3.65
51.770	27.4011	0.0585918	0.4878503	6	39.1	5.0	0.5	0.20943	192.7	187.7	0.216	1.47	1.00	192.71	0.746	0.080	3.89
51.790	25.5031	0.0785317	0.4734814	6	39.4	6.5	0.5	0.20963	179.4	174.4	0.311	1.56	1.00	179.41	0.617	0.080	3.84
51.830	21.9177	0.0808257	0.5890082	6	36.1	8.3	0.5	0.21003	155.3	150.3	0.371	1.65	1.01	156.34	0.435	0.080	3.18
51.850	22.4162	0.0809559	0.4824943	6	36.5	8.1	0.5	0.21023	157.9	152.9	0.365	1.64	1.00	157.89	0.446	0.080	2.24
51.870	21.6777	0.0877204	0.4618481	6	36.2	8.9	0.5	0.21043	152.6	147.6	0.410	1.68	1.03	156.62	0.437	0.080	2.26
51.890	21.4146	0.0932757	0.4294534	6	36.4	9.4	0.5	0.21063	150.5	145.5	0.442	1.70	1.04	156.70	0.438	0.080	2.26
51.910	21.23	0.101925	0.4195478	6	36.8	10.0	0.5	0.21083	149.1	144.1	0.487	1.73	1.06	157.81	0.446	0.080	2.30
51.930	20.787	0.0945592	0.4394165	6	35.8	9.9	0.5	0.21103	146.2	141.2	0.461	1.73	1.06	154.27	0.421	0.080	2.17
51.950	20.0946	0.0832562	0.4461834	6	34.2	9.7	0.5	0.21123	141.3	136.3	0.420	1.72	1.05	148.50	0.385	0.080	1.98
51.970	20.8829	0.0767832	0.4760154	6	34.6	8.8	0.5	0.21143	146.9	141.9	0.372	1.68	1.02	150.32	0.386	0.080	2.04
51.990	21.5937	0.0841366	0.5133053	6	36.0	8.8	0.5	0.21163	152.0	146.9	0.394	1.68	1.02	155.34	0.429	0.080	2.21
52.010	24.3088	0.0674147	0.5217711	6	37.3	6.5	0.5	0.21183	170.6	165.6	0.280	1.56	1.00	170.59	0.542	0.080	2.80
52.030	25.2853	0.0750968	0.5088133	6	39.0	6.5	0.5	0.21203	177.1	172.1	0.300	1.56	1.00	177.14	0.547	0.080	3.08
52.050	26.6229	0.0890286	0.4575	6	41.6	6.6	0.5	0.21223	185.9	180.9	0.338	1.57	1.00	185.89	0.677	0.080	3.50
52.070	34.2063	0.1226275	0.363969	6	52.0	5.3	0.5	0.21243	236.7	233.7	0.360	1.48	1.00	236.70	1.345	0.080	4.00
52.090	41.5987	0.0958798	0.5769718	6	55.1	3.2	0.5	0.21263	289.2	284.2	0.231	1.32	1.00	289.23	2.330	0.080	4.00
52.110	43.5485	0.1860183	0.5487236	6	66.3	4.6	0.5	0.21283	302.3	297.2	0.429	1.44	1.00	302.26	2.648	0.080	4.00
52.130	36.2976	0.2045196	0.1042103	6	62.4	6.3	0.5	0.21303	263.1	258.1	0.543	1.55	1.00	263.11	1.774	0.080	4.00
52.150	39.4266	0.3103074	0.4995988	6	70.9	8.1	0.5	0.21323	273.4	268.4	0.792	1.64	1.00	273.29	1.978	0.080	4.00
52.170	41.235	0.1589269	0.2422262	6	61.3	4.6	0.5	0.21343	283.9	278.9	0.385	1.44	1.00	283.91	2.208	0.080	4.00
52.190	43.4957	0.1315557	0.296419	6	60.7	3.7	0.5	0.21363	299.6	294.6	0.306	1.36	1.00	299.62	2.582	0.080	4.00
52.210	45.222	0.1183493	0.3175836	6	60.5	3.2	0.5	0.21383	311.4	306.4	0.264	1.32	1.00	311.43	2.889	0.080	4.00
52.230	45.9475	0.1150508	0.3597975	7	60.7	3.0	0.5	0.21403	316.5	311.5	0.252	1.30	1.00	316.53	3.029	0.080	4.00
52.250	46.2088	0.0920481	0.3359838	7	57.9	2.6	0.5	0.21423	318.0	313.0	0.201	1.25	1.00	318.00	3.071	0.080	4.00
52.270	45.3014	0.1016398	0.3615828	7	58.6	2.9	0.5	0.21443	311.8	306.8	0.226	1.28	1.00	311.83	2.900	0.080	4.00
52.290	41.2525	0.101367	0.5245643	6	55.7	3.4	0.5	0.21463	285.2	280.1	0.247	1.34	1.00	285.16	2.237	0.080	4.00
52.310	42.8852	0.0821712	0.4073961	7	58.1	2.9	0.5	0.21483	292.0	286.9	0.195	1.28	1.00	291.96	2.394	0.080	4.00
52.330	41.9301	0.0829596	0.4186551	7	53.9	2.9	0.5	0.21503	286.8	283.8	0.199	1.29	1.00	286.80	2.320	0.080	4.00
52.350	42.7065	0.0811296	0.4234063	7	54.2	2.8	0.5	0.21523	294.0	289.0	0.191	1.28	1.00	293.99	2.443	0.080	4.00
52.370	43.4957	0.0681849	0.4451468	7	53.0	2.5	0.5	0.21543	304.2	299.2	0.133	1.21	1.00	299.37	2.698	0.080	4.00
52.390	44.2167	0.0585236	0.4541597	7	52.2	2.2	0.5	0.21563	304.2	299.2	0.133	1.21	1.00	304.21	2.688	0.080	4.00
52.410	45.6771	0.0556554	0.4628847	7	52.7	2.1	0.5	0.21583	314.1	309.0	0.123	1.19	1.00	314.07	2.961	0.080	4.00
52.430	46.8107	0.0473381	0.4684998	7	52.4	1.9	0.5	0.21603	321.7	316.6	0.102	1.16	1.00	321.67	2.961	0.080	4.00
52.450	47.1153	0.0463327	0.4529791	7	52.5	1.8	0.5	0.21623	323.5	318.5	0.099	1.15	1.00	323.49	3.228	0.080	4.00
52.470	47.3839	0.0461853	0.4305764	7	52.6	1.8	0.5	0.21643	325.0	320.0	0.098	1.15	1.00	325.01	3.273	0.080	4.00
52.490	47.7412	0.0601667	0.4494085	7	54.7	2.0	0.5	0.21663	327.4	322.4	0.127	1.17	1.00	327.42	3.344	0.080	4.00

CPT Verileri														H BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
53.390	40.1106	0.0660135	0.4491494	7	51.6	3.0	0.5	0.22563	270.0	265.0	0.166	1.30	1.00	270.02	1.911	0.080	2.85
53.410	39.2863	0.0668319	0.4296837	6	51.1	3.2	0.5	0.22563	264.3	259.2	0.172	1.31	1.00	264.29	1.797	0.080	4.00
53.430	38.3549	0.0707442	0.4241838	6	50.9	3.4	0.5	0.22603	257.9	252.9	0.186	1.34	1.00	257.94	1.676	0.080	4.00
53.450	37.3985	0.0959232	0.4165531	6	53.2	4.2	0.5	0.22623	251.4	246.4	0.259	1.41	1.00	251.41	1.558	0.080	4.00
53.470	38.2542	0.1188205	0.4536126	6	56.4	4.6	0.5	0.22643	257.2	252.2	0.313	1.44	1.00	257.24	1.663	0.080	4.00
53.490	42.0437	0.1249029	0.4363642	6	60.3	4.0	0.5	0.22663	282.2	277.1	0.299	1.39	1.00	282.18	2.170	0.080	4.00

CPT Verileri													I BÖLGESİ									
Derinlik m	qc	Koni Uç Direnci	fs	Sürtünme Katsayısı	u	Boşluk Suyu Basıncı	Alan No.	Nc	Fc	n	σ'_{v0}	qc1N	Q	F	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL	Güvenlik Katsayısı	
								[%]	[%]		[MPa]			[%]								2.90
44.880	20.4121		0.039396		0.4489033		6	25.7	4.2	0.5	0.14053	176.0	171.0	0.194	1.41	1.00	175.96	0.587	0.089		3.16	
44.900	20.2699		0.0391542		0.4305188		6	25.6	4.2	0.5	0.14073	174.5	169.5	0.195	1.41	1.00	174.50	0.574	0.089		3.09	
44.920	19.945		0.0456272		0.4418056		6	26.1	4.7	0.5	0.14093	171.7	168.8	0.230	1.45	1.00	171.73	0.551	0.089		2.98	
44.940	19.9562		0.0415413		0.4359611		6	25.7	4.5	0.5	0.14113	171.6	168.7	0.210	1.43	1.00	171.65	0.550	0.089		2.98	
44.960	20.0761		0.0394394		0.4334271		6	25.6	4.3	0.5	0.14133	172.5	167.5	0.198	1.42	1.00	172.52	0.558	0.089		3.00	
44.980	20.5303		0.0393154		0.4410291		6	25.9	4.2	0.5	0.14153	176.3	171.3	0.193	1.41	1.00	176.28	0.589	0.089		3.17	
45.000	21.1155		0.0396797		0.4401076		6	26.4	4.0	0.5	0.14173	181.1	178.1	0.190	1.39	1.00	181.06	0.632	0.089		3.39	
45.020	21.7766		0.0376352		0.4503878		6	26.6	3.7	0.5	0.14193	186.6	181.6	0.174	1.37	1.00	186.56	0.684	0.089		3.67	
45.060	23.3283		0.0371764		0.434291		6	27.7	3.3	0.5	0.14233	199.2	194.2	0.160	1.33	1.00	199.18	0.815	0.089		4.00	
45.080	25.2493		0.0387946		0.4296261		7	29.1	2.9	0.5	0.14253	215.1	210.1	0.155	1.29	1.00	215.09	1.005	0.089		4.00	
45.100	26.7124		0.0363765		0.4410867		7	29.7	2.6	0.5	0.14273	227.3	222.3	0.137	1.25	1.00	227.28	1.172	0.089		4.00	
45.120	27.6854		0.070459		0.4590837		6	34.5	3.4	0.5	0.14293	235.4	230.4	0.256	1.34	1.00	235.41	1.293	0.089		4.00	
45.140	27.5414		0.1727994		0.4516546		6	43.2	6.6	0.5	0.14313	234.0	229.0	0.631	1.57	1.00	233.98	1.271	0.089		4.00	
45.160	28.5411		0.146182		0.472416		6	42.3	5.5	0.5	0.14333	242.3	237.4	0.514	1.50	1.00	242.34	1.404	0.089		4.00	
45.180	25.9527		0.1167001		0.3962238		6	37.7	5.5	0.5	0.14353	219.9	215.0	0.453	1.50	1.00	219.93	1.069	0.089		4.00	
45.200	21.3288		0.1815727		0.3911844		6	37.2	10.3	0.5	0.14373	181.2	176.2	0.860	1.74	1.07	192.98	0.748	0.089		4.00	
45.220	21.3915		0.1531572		0.4719552		6	35.9	9.0	0.5	0.14393	182.2	177.3	0.720	1.69	1.03	187.75	0.696	0.089		3.71	
45.240	21.6876		0.1593222		0.4750078		6	36.2	8.9	0.5	0.14413	184.4	179.5	0.714	1.68	1.03	189.25	0.710	0.089		3.79	
45.260	24.7471		0.1627488		0.4579319		6	40.0	7.5	0.5	0.14433	209.8	204.8	0.661	1.62	1.00	209.80	0.939	0.089		4.00	
45.280	27.8128		0.1327338		0.4511074		6	40.7	5.4	0.5	0.14453	235.1	230.1	0.480	1.49	1.00	235.10	1.288	0.089		4.00	
45.300	31.5154		0.0680223		0.4663402		7	36.8	2.7	0.5	0.14473	265.8	260.9	0.217	1.26	1.00	265.84	1.827	0.089		4.00	
45.320	32.6084		0.043575		0.478442		7	34.2	1.9	0.5	0.14493	274.8	269.9	0.134	1.17	1.00	274.85	2.011	0.089		4.00	
45.340	32.7497		0.0373934		0.4729631		7	33.5	1.8	0.5	0.14513	275.8	270.8	0.115	1.15	1.00	275.78	2.031	0.089		4.00	
45.360	32.817		0.0488203		0.4553891		7	35.1	2.0	0.5	0.14533	276.0	271.0	0.149	1.19	1.00	276.00	2.035	0.089		4.00	
45.380	32.4524		0.0552561		0.4544189		7	35.8	2.2	0.5	0.14553	272.8	267.8	0.171	1.21	1.00	272.78	1.968	0.089		4.00	
45.400	31.9216		0.0598071		0.4497253		7	36.1	2.4	0.5	0.14573	268.2	263.2	0.188	1.23	1.00	268.16	1.873	0.089		4.00	
45.420	29.779		0.0674829		0.4509059		7	35.9	3.0	0.5	0.14593	250.2	245.2	0.228	1.30	1.00	250.24	1.537	0.089		4.00	
45.440	27.9208		0.0667203		0.4056108		6	34.6	3.4	0.5	0.14613	234.3	229.4	0.241	1.33	1.00	234.33	1.277	0.089		4.00	
45.460	24.3714		0.0659763		0.4171578		6	32.0	4.3	0.5	0.14633	204.9	200.0	0.273	1.41	1.00	204.92	0.880	0.089		4.00	
45.480	22.1402		0.062126		0.4014355		6	29.9	4.9	0.5	0.14653	186.2	181.3	0.263	1.46	1.00	186.22	0.681	0.089		3.61	
45.500	20.3401		0.0643766		0.4141055		6	28.7	5.7	0.5	0.14673	171.3	166.4	0.319	1.52	1.00	171.34	0.548	0.089		2.91	
45.520	16.5091		0.0623492		0.4150289		6	25.2	7.9	0.5	0.14693	139.6	134.7	0.382	1.63	1.00	139.62	0.333	0.089		1.77	
45.540	12.897		0.0616175		0.4794996		6	21.6	11.2	0.5	0.14713	110.3	105.3	0.482	1.78	1.09	120.31	0.242	0.089		1.28	
45.560	11.0904		0.0549833		0.443016		6	19.1	13.1	0.5	0.14733	95.0	90.1	0.503	1.85	1.14	108.51	0.199	0.089		1.05	
45.580	9.3882		0.0533527		0.4232912		6	17.1	16.2	0.5	0.14753	80.8	75.8	0.579	1.94	1.23	99.44	0.171	0.089		0.91	
45.600	9.4039		0.0396192		0.4342046		6	16.3	14.2	0.5	0.14773	80.9	76.0	0.429	1.88	1.17	94.65	0.159	0.089		0.84	
45.620	8.9931		0.0348885		0.4464714		6	15.5	14.2	0.5	0.14793	77.6	72.6	0.395	1.88	1.17	90.87	0.150	0.088		0.79	
45.640	9.1188		0.0297237		0.4474504		6	15.3	13.1	0.5	0.14813	78.6	73.6	0.332	1.84	1.14	89.59	0.147	0.088		0.78	
45.660	9.9143		0.0255334		0.4158332		6	15.7	11.0	0.5	0.14833	84.8	79.9	0.260	1.77	1.09	92.14	0.153	0.087		0.81	
45.680	8.8371		0.0276653		0.4413458		6	14.8	13.3	0.5	0.14853	76.1	71.2	0.319	1.85	1.15	87.24	0.142	0.087		0.75	
45.700	9.5109		0.0292091		0.4412019		6	15.7	12.3	0.5	0.14873	81.6	76.6	0.313	1.82	1.12	91.41	0.151	0.086		0.80	

CPT Verileri											I BÖLGESİ										
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı				
																89	2.90				
45.720	10.2716	0.0265616	0.4448861	6	16.3	10.7	0.5	0.14893	87.8	82.8	0.263	1.76	1.08	94.62	0.159	0.086	0.84				
45.740	11.9249	0.0174535	0.4590549	6	17.0	7.6	0.5	0.14813	101.4	96.4	0.148	1.62	1.00	101.41	0.177	0.085	0.93				
45.760	16.8729	0.0172923	0.4114451	6	21.3	4.6	0.5	0.14833	141.5	136.5	0.104	1.44	1.00	141.47	0.343	0.085	1.81				
45.780	16.799	0.0195988	0.4300869	6	21.5	4.8	0.5	0.14953	140.9	135.9	0.118	1.45	1.00	140.90	0.340	0.085	1.79				
45.820	18.1338	0.0311748	0.4841517	6	23.8	5.0	0.5	0.14993	151.9	146.9	0.173	1.46	1.00	151.89	0.406	0.085	2.14				
45.840	18.0618	0.0279009	0.47171578	6	23.4	4.8	0.5	0.15013	150.8	145.8	0.156	1.45	1.00	150.81	0.399	0.085	2.10				
45.860	17.5929	0.0277631	0.42332	6	23.0	5.0	0.5	0.15033	146.9	142.0	0.160	1.47	1.00	146.94	0.375	0.085	1.97				
45.880	17.1913	0.036373	0.4332255	6	23.8	5.9	0.5	0.15073	143.7	138.7	0.226	1.53	1.00	143.65	0.356	0.085	1.87				
45.900	18.3988	0.0480949	0.4148814	6	25.8	6.0	0.5	0.15073	153.2	148.3	0.264	1.53	1.00	153.24	0.415	0.085	2.18				
45.920	20.3867	0.0539417	0.4519713	6	28.1	5.4	0.5	0.15093	169.4	164.4	0.267	1.49	1.00	169.38	0.532	0.085	2.80				
45.940	23.3135	0.0470719	0.4786201	6	29.6	4.0	0.5	0.15113	193.5	188.6	0.203	1.39	1.00	193.52	0.754	0.085	3.98				
45.960	26.81	0.0472889	0.4736542	6	32.0	3.2	0.5	0.15133	220.2	215.2	0.179	1.31	1.00	220.16	1.072	0.085	4.00				
45.980	27.3817	0.0601667	0.4587958	6	34.0	3.4	0.5	0.15153	226.2	221.2	0.221	1.34	1.00	226.17	1.156	0.085	4.00				
46.000	27.5497	0.0756866	0.4742589	6	35.9	3.9	0.5	0.15173	227.5	222.5	0.276	1.38	1.00	227.51	1.175	0.085	4.00				
46.020	27.1435	0.0768568	0.4668585	6	35.8	4.0	0.5	0.15193	224.0	219.0	0.285	1.39	1.00	224.00	1.125	0.085	4.00				
46.040	27.3771	0.0783829	0.4764185	6	36.1	4.0	0.5	0.15213	225.8	220.9	0.288	1.39	1.00	225.83	1.151	0.085	4.00				
46.060	29.9175	0.0667878	0.4955874	7	35.4	2.8	0.5	0.15253	248.3	241.3	0.191	1.21	1.00	248.25	1.469	0.085	4.00				
46.100	32.8715	0.0511454	0.4819472	7	36.4	2.2	0.5	0.15273	269.9	264.9	0.156	1.21	1.00	269.88	1.908	0.085	4.00				
46.120	34.7759	0.0721579	0.491168	7	40.3	2.5	0.5	0.15293	285.2	280.2	0.208	1.24	1.00	285.19	2.237	0.085	4.00				
46.140	35.8623	0.0680753	0.4742877	7	42.1	2.5	0.5	0.15313	293.6	288.6	0.226	1.24	1.00	293.56	2.433	0.085	4.00				
46.160	36.1117	0.0642669	0.4901251	7	42.7	2.5	0.5	0.15333	295.6	290.6	0.234	1.25	1.00	295.59	2.482	0.085	4.00				
46.180	36.4486	0.0931331	0.4935805	7	44.0	2.7	0.5	0.15353	298.1	293.2	0.256	1.26	1.00	298.14	2.545	0.085	4.00				
46.200	36.1947	0.10301	0.4752955	7	45.1	2.9	0.5	0.15373	295.8	290.8	0.286	1.29	1.00	295.75	2.486	0.085	4.00				
46.220	36.1126	0.1059366	0.4912481	7	45.4	3.0	0.5	0.15393	295.0	290.1	0.294	1.30	1.00	295.03	2.468	0.085	4.00				
46.240	35.5578	0.1034503	0.4484871	7	44.8	3.0	0.5	0.15413	290.0	285.1	0.292	1.30	1.00	290.02	2.349	0.085	4.00				
46.260	35.0362	0.102204	0.4750651	6	44.3	3.1	0.5	0.15433	285.9	280.9	0.293	1.31	1.00	285.85	2.252	0.085	4.00				
46.280	33.7789	0.101119	0.437648	6	43.4	3.3	0.5	0.15453	275.3	270.3	0.301	1.33	1.00	275.25	2.019	0.085	4.00				
46.300	29.515	0.0799949	0.4600628	6	38.2	3.7	0.5	0.15513	240.7	235.7	0.272	1.36	1.00	240.66	1.376	0.085	4.00				
46.340	29.515	0.0799949	0.4600628	6	38.2	3.7	0.5	0.15513	240.7	235.7	0.272	1.36	1.00	240.66	1.376	0.085	4.00				
46.360	27.7786	0.0737823	0.4618193	6	36.3	3.9	0.5	0.15533	226.6	221.6	0.267	1.38	1.00	226.59	1.162	0.085	4.00				
46.380	26.4927	0.0741667	0.4907588	6	35.4	4.2	0.5	0.15553	216.4	211.4	0.281	1.41	1.00	216.37	1.022	0.085	4.00				
46.400	23.9449	0.0768266	0.4753243	6	33.7	5.2	0.5	0.15573	190.7	190.7	0.323	1.48	1.00	195.69	0.777	0.085	4.00				
46.420	22.7347	0.0828966	0.4356444	6	33.2	5.9	0.5	0.15593	185.6	180.6	0.368	1.53	1.00	185.55	0.674	0.085	3.56				
46.440	20.7214	0.0852961	0.4319873	6	31.6	7.0	0.5	0.15613	169.3	164.3	0.415	1.59	1.00	169.29	0.531	0.085	2.80				
46.460	20.2903	0.0866725	0.4496389	6	31.3	7.3	0.5	0.15633	165.9	160.9	0.431	1.61	1.00	165.88	0.504	0.085	2.66				
46.480	20.4656	0.0860304	0.4604371	6	31.6	7.3	0.5	0.15653	167.3	162.3	0.434	1.60	1.00	167.26	0.515	0.085	2.72				
46.500	20.0999	0.0846497	0.4640653	6	31.0	7.4	0.5	0.15673	164.2	159.2	0.426	1.61	1.00	164.18	0.492	0.085	2.60				
46.520	19.4281	0.0728825	0.4619057	6	29.4	7.1	0.5	0.15693	158.8	153.8	0.379	1.60	1.00	158.77	0.452	0.085	2.39				
46.540	17.6372	0.0659887	0.4662618	6	27.2	7.8	0.5	0.15713	144.3	139.4	0.378	1.63	1.00	144.34	0.360	0.085	1.90				
46.560	15.7822	0.0593917	0.4927743	6	24.9	8.8	0.5	0.15733	123.3	124.4	0.381	1.68	1.02	132.21	0.295	0.085	1.58				
46.580	15.4642	0.0573394	0.4618769	6	24.4	8.9	0.5	0.15753	126.9	121.9	0.375	1.68	1.03	130.11	0.285	0.085	1.51				
46.600	13.9364	0.05866	0.4594005	6	23.0	10.5	0.5	0.15773	114.6	109.7	0.426	1.75	1.07	122.75	0.252	0.085	1.33				

CPT Verileri													I BÖLGESİ												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'v0 [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
																89	2.90								
46.620	13.2653	0.0579532	0.4599784	6	22.2	11.2	0.5	0.15793	109.2	104.3	0.442	1.78	1.09	119.03	0.237	0.085	1.25								
46.640	12.9099	0.0463403	0.4975784	6	21.0	10.4	0.5	0.15813	106.4	101.4	0.363	1.75	1.07	113.81	0.217	0.085	1.15								
46.660	13.2625	0.0411516	0.4659658	6	21.2	9.8	0.5	0.15833	109.1	104.1	0.337	1.72	1.05	114.91	0.221	0.085	1.17								
46.680	13.8284	0.0472083	0.4701699	6	22.0	9.6	0.5	0.15853	113.6	108.6	0.345	1.71	1.05	118.73	0.236	0.085	1.25								
46.700	15.0571	0.0411755	0.4799813	6	22.7	7.9	0.5	0.15873	123.3	118.3	0.276	1.64	1.00	123.31	0.254	0.085	1.35								
46.720	18.972	0.0238388	0.4826807	6	24.4	4.5	0.5	0.15893	154.3	149.4	0.127	1.43	1.00	154.32	0.422	0.085	2.23								
46.740	22.2519	0.0208451	0.4868424	6	26.6	3.4	0.5	0.15913	180.3	175.3	0.094	1.34	1.00	180.26	0.625	0.085	3.31								
46.760	23.3763	0.0312056	0.478607	6	28.6	3.5	0.5	0.15933	189.0	184.0	0.134	1.35	1.00	188.99	0.708	0.085	3.75								
46.780	24.0224	0.0284713	0.475629	6	28.7	3.3	0.5	0.15953	194.0	189.0	0.119	1.33	1.00	193.96	0.759	0.085	4.00								
46.800	22.8316	0.0443686	0.448775	6	29.7	4.3	0.5	0.15973	184.2	179.2	0.196	1.41	1.00	184.20	0.661	0.085	3.50								
46.820	22.7541	0.0469355	0.4871304	6	30.0	4.4	0.5	0.15993	183.8	178.8	0.208	1.42	1.00	183.78	0.657	0.085	3.48								
46.840	23.2433	0.0424981	0.4852587	6	29.9	4.1	0.5	0.16013	187.5	182.5	0.184	1.40	1.00	187.51	0.693	0.085	3.67								
46.860	23.6855	0.0412809	0.4786934	6	30.1	3.9	0.5	0.16033	190.8	185.9	0.175	1.38	1.00	190.84	0.726	0.085	3.85								
46.880	23.0716	0.0395324	0.4801907	6	29.4	4.0	0.5	0.16053	185.9	180.9	0.172	1.39	1.00	185.89	0.677	0.085	3.59								
46.900	22.154	0.0352233	0.4634894	6	28.2	4.1	0.5	0.16073	178.4	173.4	0.160	1.40	1.00	178.40	0.608	0.085	3.22								
46.920	21.6648	0.0341631	0.4597748	6	27.7	4.2	0.5	0.16093	174.4	169.4	0.159	1.41	1.00	174.40	0.573	0.085	3.04								
46.940	20.701	0.0357193	0.468738	6	27.2	4.6	0.5	0.16113	168.8	163.8	0.174	1.44	1.00	168.78	0.511	0.085	2.71								
46.960	19.2277	0.0347395	0.4356731	6	25.9	5.2	0.5	0.16133	154.8	149.8	0.182	1.48	1.00	154.81	0.425	0.085	2.25								
46.980	18.2271	0.0314335	0.4444845	6	24.7	5.4	0.5	0.16153	148.9	143.9	0.174	1.49	1.00	148.91	0.375	0.085	1.99								
47.000	17.3852	0.0298539	0.4640941	6	23.9	5.7	0.5	0.16173	140.4	135.4	0.173	1.51	1.00	140.35	0.337	0.085	1.79								
47.020	16.8165	0.0303872	0.4631151	6	23.4	6.1	0.5	0.16193	135.8	130.8	0.183	1.54	1.00	135.79	0.313	0.085	1.68								
47.040	13.7315	0.0290727	0.4803923	6	20.5	8.0	0.5	0.16213	111.6	106.6	0.214	1.64	1.00	111.35	0.208	0.085	1.11								
47.060	13.2939	0.0286557	0.4579031	6	20.1	8.4	0.5	0.16233	107.9	103.0	0.220	1.66	1.01	109.10	0.201	0.084	1.07								
47.080	11.1209	0.0361409	0.4525472	6	18.5	11.8	0.5	0.16253	90.8	85.8	0.330	1.80	1.11	100.50	0.174	0.084	0.93								
47.100	10.3842	0.0384226	0.4685993	6	17.9	13.3	0.5	0.16273	85.1	80.1	0.376	1.85	1.15	97.51	0.166	0.084	0.88								
47.120	10.831	0.0353597	0.4593141	6	18.1	12.2	0.5	0.16293	88.5	83.5	0.332	1.81	1.12	98.72	0.169	0.084	0.90								
47.140	11.6858	0.0301205	0.4708034	6	18.6	10.3	0.5	0.16313	95.2	90.2	0.261	1.74	1.07	101.46	0.177	0.083	0.94								
47.160	13.2994	0.0237157	0.4656779	6	19.6	7.9	0.5	0.16333	107.7	102.7	0.181	1.64	1.00	107.71	0.196	0.083	1.04								
47.180	17.0944	0.0240754	0.4511938	6	23.1	5.5	0.5	0.16353	137.2	132.2	0.142	1.50	1.00	137.20	0.320	0.083	1.70								
47.200	18.4191	0.0255551	0.4473353	6	24.4	5.0	0.5	0.16373	147.4	142.5	0.140	1.47	1.00	147.44	0.378	0.083	2.01								
47.220	19.8185	0.0213535	0.466369	6	25.1	4.3	0.5	0.16393	158.4	153.5	0.109	1.41	1.00	158.43	0.450	0.083	2.39								
47.240	19.6082	0.0190532	0.4569817	6	24.7	4.3	0.5	0.16413	156.6	151.6	0.098	1.41	1.00	156.61	0.437	0.083	2.32								
47.260	20.0992	0.0255176	0.4794708	6	25.9	4.4	0.5	0.16433	160.5	155.6	0.129	1.43	1.00	160.53	0.465	0.083	2.47								
47.280	20.3964	0.0346963	0.4883688	6	27.1	4.8	0.5	0.16453	162.8	157.9	0.171	1.45	1.00	162.82	0.481	0.083	2.58								
47.300	21.1765	0.0293021	0.4885701	6	28.1	4.3	0.5	0.16473	168.8	163.8	0.139	1.41	1.00	168.80	0.527	0.083	2.80								
47.320	23.1547	0.0256006	0.4904706	6	28.2	3.5	0.5	0.16493	184.1	179.1	0.111	1.35	1.00	184.12	0.660	0.083	3.51								
47.340	25.4016	0.0342623	0.4841645	6	30.9	3.3	0.5	0.16513	201.4	196.5	0.136	1.33	1.00	201.44	0.840	0.083	4.00								
47.360	26.6813	0.038125	0.4759578	6	32.2	3.2	0.5	0.16533	210.4	205.5	0.144	1.32	1.00	210.43	0.947	0.083	4.00								
47.380	26.9792	0.0554731	0.4735102	6	34.6	3.7	0.5	0.16553	213.4	208.4	0.207	1.37	1.00	213.38	0.983	0.083	4.00								
47.400	25.7339	0.0686098	0.4890021	6	35.2	4.6	0.5	0.16573	203.7	198.7	0.269	1.44	1.00	203.69	0.866	0.083	4.00								
47.420	23.2609	0.0686683	0.4755547	6	35.8	6.8	0.5	0.16593	184.3	179.3	0.428	1.58	1.00	184.27	0.662	0.083	3.52								

CPT Verileri													H BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	σ'_{v0}	qc1N	Q	F	Ic	Kc	(qc1N)/es	CRR	Oturma [mm]	FL Güvenlik Katsayısı
	Koni Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı			[%]		[MPa]			[%]					96	2.85
52.510	48.189	0.0655113	0.4414322	7	55.8	2.0	0.5	0.21683	330.3	325.3	0.137	1.18	1.00	330.32	3.432	0.080	4.00
52.530	47.6027	0.0520382	0.4157468	7	53.6	1.9	0.5	0.21703	325.9	320.9	0.110	1.16	1.00	325.95	3.301	0.080	4.00
52.570	41.0559	0.0700436	0.4757274	7	51.9	2.8	0.5	0.21763	281.7	276.6	0.172	1.28	1.00	281.66	2.158	0.080	4.00
52.590	43.8807	0.0773536	0.4148541	7	54.8	2.6	0.5	0.21763	300.3	295.2	0.178	1.26	1.00	300.26	2.598	0.080	4.00
52.610	42.9409	0.0929595	0.3852813	7	56.2	3.1	0.5	0.21783	293.6	288.5	0.218	1.30	1.00	293.56	2.433	0.080	4.00
52.630	42.7176	0.1145176	0.3968571	6	58.7	3.5	0.5	0.21803	291.9	286.9	0.270	1.35	1.00	291.95	2.394	0.080	4.00
52.650	42.8089	0.1131225	0.4146814	6	58.6	3.5	0.5	0.21823	292.5	287.5	0.266	1.35	1.00	292.59	2.410	0.080	4.00
52.670	43.1339	0.1062403	0.4039407	6	58.1	3.3	0.5	0.21843	294.6	289.5	0.248	1.33	1.00	294.59	2.457	0.080	4.00
52.690	42.8717	0.0991039	0.4077129	6	57.0	3.2	0.5	0.21863	292.7	287.7	0.233	1.32	1.00	292.70	2.412	0.080	4.00
52.710	42.4415	0.0696778	0.3936336	7	52.9	2.7	0.5	0.21883	289.6	284.5	0.166	1.26	1.00	289.57	2.338	0.080	4.00
52.730	41.7113	0.0675635	0.389831	7	52.1	2.7	0.5	0.21903	284.5	279.4	0.163	1.27	1.00	284.47	2.221	0.080	4.00
52.750	40.2214	0.0757664	0.3891399	7	52.2	3.1	0.5	0.21923	274.3	269.2	0.190	1.31	1.00	274.28	1.999	0.080	4.00
52.770	39.9454	0.0838824	0.3962812	6	53.0	3.3	0.5	0.21943	272.3	267.3	0.212	1.33	1.00	272.34	1.958	0.080	4.00
52.790	40.5944	0.0893944	0.4367386	6	54.3	3.3	0.5	0.21963	276.9	271.8	0.222	1.33	1.00	276.86	2.054	0.080	4.00
52.810	41.3495	0.0921163	0.4357863	6	55.2	3.3	0.5	0.21983	281.8	276.8	0.224	1.33	1.00	281.83	2.162	0.080	4.00
52.830	42.0067	0.0750348	0.5456137	7	53.6	2.8	0.5	0.22023	286.7	281.7	0.179	1.28	1.00	286.74	2.272	0.080	4.00
52.870	44.3321	0.0718603	0.4409139	7	54.7	2.5	0.5	0.22043	301.6	296.5	0.163	1.25	1.00	301.57	2.631	0.080	4.00
52.890	45.4324	0.083033	0.3716612	7	56.9	2.6	0.5	0.22063	308.4	303.3	0.184	1.26	1.00	308.37	2.807	0.080	4.00
52.910	43.42	0.0850915	0.3438161	7	55.8	2.9	0.5	0.22083	294.5	289.5	0.198	1.29	1.00	294.50	2.455	0.080	4.00
52.930	41.6236	0.0833182	0.3257614	7	54.3	3.1	0.5	0.22103	282.2	277.1	0.202	1.31	1.00	282.16	2.169	0.080	4.00
52.950	39.2558	0.0810985	0.3397272	6	52.3	3.4	0.5	0.22123	266.2	261.2	0.209	1.34	1.00	266.21	1.835	0.080	4.00
52.970	36.3729	0.0859037	0.3570907	6	50.7	4.0	0.5	0.22143	246.8	241.8	0.239	1.39	1.00	246.83	1.479	0.080	4.00
52.990	35.9797	0.0838328	0.3621587	6	50.1	4.1	0.5	0.22163	244.1	239.1	0.236	1.40	1.00	244.11	1.433	0.080	4.00
53.010	36.3738	0.0875034	0.4272937	6	50.9	4.1	0.5	0.22183	247.1	242.0	0.243	1.40	1.00	247.09	1.483	0.080	4.00
53.030	37.7779	0.0854697	0.4467593	6	51.9	3.8	0.5	0.22203	256.5	251.5	0.228	1.37	1.00	256.53	1.659	0.080	4.00
53.050	38.1204	0.0823572	0.4635182	6	51.8	3.6	0.5	0.22223	258.8	253.8	0.218	1.36	1.00	258.82	1.692	0.080	4.00
53.070	37.3551	0.0647734	0.4278408	6	49.0	3.3	0.5	0.22243	253.3	248.3	0.175	1.33	1.00	253.34	1.592	0.080	4.00
53.090	34.6107	0.0613695	0.4137599	6	46.4	3.7	0.5	0.22263	234.7	229.7	0.179	1.37	1.00	234.74	1.283	0.080	4.00
53.110	33.7743	0.0583438	0.4150042	6	45.5	3.8	0.5	0.22283	229.7	224.7	0.174	1.37	1.00	229.71	1.207	0.080	4.00
53.130	34.6771	0.0554855	0.4811122	6	45.9	3.5	0.5	0.22303	235.4	230.4	0.161	1.35	1.00	235.42	1.293	0.080	4.00
53.150	34.6236	0.0569274	0.4625968	6	46.7	3.4	0.5	0.22323	240.8	235.7	0.162	1.34	1.00	240.77	1.378	0.080	4.00
53.170	34.6236	0.0553677	0.4440526	6	45.8	3.6	0.5	0.22343	234.6	229.6	0.161	1.35	1.00	234.60	1.281	0.080	4.00
53.190	33.7162	0.0593173	0.4441678	6	45.6	3.8	0.5	0.22363	228.4	223.4	0.178	1.38	1.00	228.43	1.189	0.080	4.00
53.210	32.9463	0.0660879	0.4488326	6	45.8	4.2	0.5	0.22383	223.2	218.2	0.202	1.41	1.00	223.22	1.114	0.080	4.00
53.230	31.5117	0.0674085	0.4535838	6	44.8	4.6	0.5	0.22403	213.6	208.5	0.216	1.44	1.00	213.56	0.986	0.080	4.00
53.250	31.3382	0.0732863	0.4664841	6	45.3	4.8	0.5	0.22423	212.4	207.3	0.236	1.45	1.00	212.39	0.971	0.080	4.00
53.270	31.2514	0.0846079	0.4602356	6	46.4	5.2	0.5	0.22443	211.7	206.6	0.273	1.48	1.00	211.68	0.962	0.080	4.00
53.290	32.2502	0.0881358	0.4508771	6	47.7	5.1	0.5	0.22463	218.2	213.1	0.276	1.47	1.00	218.19	1.046	0.080	4.00
53.310	33.2149	0.0905104	0.4722144	6	48.9	4.9	0.5	0.22483	224.7	219.6	0.275	1.46	1.00	224.67	1.135	0.080	4.00
53.330	36.0397	0.0899586	0.4596309	6	51.3	4.3	0.5	0.22503	243.3	238.3	0.252	1.41	1.00	243.31	1.420	0.080	4.00
53.370	39.5171	0.0765786	0.5162137	6	52.5	3.3	0.5	0.22543	266.6	261.6	0.195	1.33	1.00	266.63	1.843	0.080	4.00

CPT Verileri													I BÖLGESİ												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
47.440	22.8002	0.0960906	0.4714657	6	35.1	6.9	0.5	0.16613	180.6	175.6	0.425	1.58	1.00	180.55	0.627	0.083	3.30								
47.460	22.6405	0.0886178	0.4360074	6	34.4	6.6	0.5	0.16633	179.3	174.3	0.395	1.57	1.00	179.32	0.616	0.083	3.28								
47.480	22.4679	0.0846327	0.4855178	6	33.9	6.5	0.5	0.16653	177.9	172.9	0.379	1.56	1.00	177.87	0.603	0.083	3.21								
47.500	21.8531	0.0814892	0.4770232	6	33.1	6.7	0.5	0.16673	172.9	168.0	0.376	1.57	1.00	172.94	0.561	0.083	2.99								
47.520	17.9428	0.0663111	0.460034	6	28.1	8.1	0.5	0.16683	142.4	137.5	0.373	1.65	1.00	142.52	0.349	0.083	1.80								
47.540	20.1546	0.0669249	0.4543037	6	30.3	6.8	0.5	0.16713	159.4	154.4	0.335	1.58	1.00	159.41	0.457	0.083	2.43								
47.560	18.4422	0.0620268	0.4360187	6	28.3	7.5	0.5	0.16733	145.9	141.0	0.340	1.62	1.00	145.94	0.369	0.083	1.97								
47.580	16.151	0.0500976	0.4339454	6	25.0	8.3	0.5	0.16753	128.1	123.2	0.314	1.66	1.01	129.02	0.280	0.083	1.49								
47.600	14.9601	0.039551	0.4308843	6	22.9	8.4	0.5	0.16773	118.8	113.9	0.268	1.66	1.01	119.91	0.240	0.083	1.28								
47.620	13.8644	0.0346405	0.4308643	6	21.4	8.8	0.5	0.16793	110.3	105.3	0.254	1.68	1.02	113.01	0.214	0.083	1.14								
47.640	11.9258	0.0294137	0.4293382	6	19.0	10.3	0.5	0.16813	95.3	90.3	0.251	1.74	1.07	101.54	0.177	0.083	0.94								
47.660	11.2843	0.0240288	0.4575884	6	17.9	10.3	0.5	0.16833	90.5	85.5	0.217	1.74	1.07	96.48	0.164	0.083	0.87								
47.680	11.3498	0.0221595	0.4588322	6	17.8	10.0	0.5	0.16853	91.0	86.0	0.199	1.73	1.06	96.14	0.163	0.082	0.87								
47.700	13.148	0.0206761	0.4877927	6	19.5	8.0	0.5	0.16873	105.0	100.0	0.161	1.64	1.00	104.97	0.188	0.082	1.00								
47.720	14.3887	0.0212915	0.4912769	6	20.7	7.1	0.5	0.16893	114.5	109.5	0.150	1.59	1.00	114.49	0.220	0.082	1.17								
47.740	15.5999	0.0151781	0.4840205	6	21.3	5.9	0.5	0.16913	123.7	118.7	0.098	1.52	1.00	123.67	0.256	0.082	1.36								
47.760	12.5545	0.0219735	0.457871	6	19.1	8.7	0.5	0.16933	100.3	95.3	0.177	1.67	1.02	102.19	0.179	0.082	0.96								
47.780	11.6258	0.0230895	0.4812849	6	18.2	9.8	0.5	0.16953	93.0	88.0	0.201	1.72	1.05	97.87	0.167	0.081	0.89								
47.800	10.1867	0.0227051	0.4822928	6	16.7	11.6	0.5	0.16973	81.9	76.9	0.227	1.79	1.10	90.25	0.148	0.081	0.79								
47.820	10.4922	0.0202808	0.4875335	6	16.8	10.8	0.5	0.16993	84.2	79.3	0.196	1.76	1.08	90.97	0.150	0.081	0.80								
47.840	11.4435	0.0192516	0.4914209	6	17.7	9.5	0.5	0.17013	91.5	86.6	0.170	1.71	1.04	95.55	0.161	0.080	0.88								
47.860	12.4825	0.0208947	0.489722	6	18.9	8.7	0.5	0.17033	99.4	94.4	0.170	1.67	1.02	101.26	0.177	0.080	0.94								
47.880	13.1102	0.0242738	0.4768505	6	19.9	8.5	0.5	0.17053	104.0	99.1	0.188	1.66	1.01	105.47	0.189	0.080	1.01								
47.900	12.8767	0.0307158	0.4767353	6	20.2	9.5	0.5	0.17073	102.2	97.2	0.242	1.71	1.04	106.65	0.193	0.079	1.03								
47.920	13.8013	0.0394456	0.4653323	6	21.8	9.7	0.5	0.17093	107.6	102.6	0.294	1.72	1.05	113.04	0.214	0.079	1.14								
47.940	12.896	0.0270143	0.4717825	6	19.9	9.1	0.5	0.17113	102.2	97.2	0.212	1.69	1.03	105.36	0.189	0.079	1.01								
47.960	13.9816	0.0215581	0.4802771	6	20.5	7.5	0.5	0.17133	110.5	105.5	0.156	1.62	1.00	110.49	0.205	0.079	1.10								
47.980	14.5133	0.0238522	0.4726175	6	21.2	7.4	0.5	0.17153	114.4	109.4	0.166	1.61	1.00	114.42	0.219	0.079	1.17								
48.000	11.5815	0.0296183	0.4869288	6	18.9	10.9	0.5	0.17173	92.1	87.1	0.259	1.77	1.08	99.64	0.172	0.079	0.92								
48.020	14.7238	0.0365502	0.4848268	6	22.7	8.4	0.5	0.17193	116.0	111.0	0.251	1.66	1.01	117.37	0.230	0.079	1.23								
48.040	15.5086	0.0438478	0.4655339	6	24.1	8.5	0.5	0.17213	121.7	116.8	0.286	1.66	1.01	123.38	0.255	0.078	1.38								
48.060	13.7047	0.0453234	0.451309	6	22.2	10.3	0.5	0.17233	107.8	102.9	0.336	1.74	1.07	115.08	0.222	0.078	1.18								
48.080	12.7049	0.057451	0.4473065	6	22.2	12.8	0.5	0.17253	100.1	95.2	0.460	1.84	1.13	113.53	0.216	0.078	1.15								
48.100	11.6147	0.0635096	0.4630287	6	21.3	15.2	0.5	0.17273	91.9	86.9	0.566	1.91	1.20	110.23	0.205	0.078	1.09								
48.120	10.7996	0.0565644	0.4693637	6	19.9	15.8	0.5	0.17293	85.7	80.7	0.533	1.93	1.22	104.42	0.188	0.078	0.99								
48.140	9.1915	0.0562544	0.4808242	6	17.9	19.4	0.5	0.17313	73.5	68.5	0.624	2.03	1.34	96.16	0.168	0.078	0.90								
48.160	10.3787	0.0501472	0.4895492	6	19.1	15.8	0.5	0.17333	82.6	77.6	0.491	1.93	1.22	100.46	0.174	0.078	0.93								
48.180	12.0745	0.0407787	0.4902691	6	20.4	11.8	0.5	0.17353	95.4	90.4	0.342	1.80	1.11	105.51	0.189	0.077	1.01								
48.200	17.3649	0.0397493	0.4935805	6	25.6	6.9	0.5	0.17373	130.5	130.5	0.321	1.59	1.00	135.49	0.311	0.077	1.67								
48.220	16.7945	0.0444554	0.4928319	6	28.3	6.0	0.5	0.17393	153.8	148.9	0.226	1.53	1.00	153.83	0.419	0.077	2.24								
48.240	23.4363	0.045094	0.4926015	6	31.5	4.6	0.5	0.17413	181.3	176.4	0.194	1.44	1.00	181.34	0.635	0.077	3.39								

CPT Verileri													İ BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
48.260	23.8803	0.0528257	0.5194875	6	32.7	4.8	0.5	0.17433	184.8	179.8	0.222	1.45	1.00	184.80	0.667	0.077	3.57
48.260	24.8728	0.0557622	0.495769	6	33.8	4.6	0.5	0.17453	192.0	187.0	0.226	1.44	1.00	192.02	0.738	0.077	3.95
48.300	24.5385	0.068474	0.4743741	6	33.9	4.8	0.5	0.17473	189.2	184.2	0.240	1.46	1.00	189.23	0.710	0.077	3.80
48.320	24.1231	0.0696724	0.4716385	6	34.7	5.5	0.5	0.17493	186.0	181.0	0.291	1.50	1.00	185.96	0.678	0.077	3.63
48.340	23.1288	0.0777256	0.468465	6	34.6	6.2	0.5	0.17513	178.5	173.5	0.339	1.55	1.00	178.47	0.609	0.077	3.28
48.360	22.1162	0.0807513	0.4825231	6	33.9	6.9	0.5	0.17533	170.7	165.7	0.368	1.58	1.00	170.67	0.542	0.077	2.90
48.360	21.4469	0.0873794	0.4866985	6	33.8	7.5	0.5	0.17553	165.6	160.6	0.411	1.62	1.00	165.55	0.502	0.077	2.69
48.400	20.8755	0.0833802	0.4728191	6	32.9	7.7	0.5	0.17573	161.0	156.1	0.403	1.62	1.00	161.04	0.488	0.077	2.51
48.420	20.0179	0.0757478	0.4681831	6	31.5	7.8	0.5	0.17593	154.5	149.5	0.382	1.63	1.00	154.45	0.423	0.077	2.28
48.440	19.3071	0.0624856	0.4865545	6	29.7	7.4	0.5	0.17613	149.1	144.2	0.327	1.61	1.00	149.15	0.389	0.077	2.08
48.460	19.2056	0.0587566	0.4915937	6	29.1	7.1	0.5	0.17633	143.3	143.4	0.298	1.60	1.00	148.33	0.384	0.077	2.05
48.480	20.3373	0.0506432	0.4915073	6	29.6	6.2	0.5	0.17653	158.8	151.8	0.251	1.54	1.00	156.77	0.438	0.077	2.35
48.500	24.0381	0.0615493	0.5011249	6	34.0	5.2	0.5	0.17693	184.5	179.5	0.258	1.48	1.00	184.48	0.664	0.077	3.56
48.540	25.6705	0.0612207	0.4981014	6	35.5	4.6	0.5	0.17713	198.1	193.1	0.238	1.44	1.00	198.13	0.803	0.077	4.00
48.560	26.8584	0.0629682	0.4974103	6	36.4	4.4	0.5	0.17733	205.4	200.4	0.236	1.42	1.00	205.41	0.886	0.077	4.00
48.580	27.5746	0.0643642	0.4896844	6	37.2	4.2	0.5	0.17753	210.6	205.7	0.235	1.41	1.00	210.63	0.949	0.077	4.00
48.600	27.6974	0.0681525	0.4896068	6	37.7	4.4	0.5	0.17773	211.4	206.5	0.248	1.42	1.00	211.43	0.959	0.077	4.00
48.620	27.8988	0.0732863	0.495337	6	38.4	4.5	0.5	0.17793	212.8	207.9	0.264	1.43	1.00	212.85	0.977	0.077	4.00
48.640	27.0023	0.076343	0.4896932	6	38.1	4.9	0.5	0.17813	206.0	201.0	0.285	1.46	1.00	205.99	0.893	0.077	4.00
48.660	27.2885	0.0814892	0.4816305	6	38.8	5.0	0.5	0.17833	208.0	203.0	0.301	1.47	1.00	207.95	0.916	0.077	4.00
48.680	25.2447	0.0949746	0.4773976	6	38.3	6.2	0.5	0.17853	192.5	187.5	0.379	1.55	1.00	192.51	0.743	0.077	3.99
48.700	22.8759	0.1057195	0.4545341	6	36.8	7.8	0.5	0.17873	174.5	169.5	0.468	1.63	1.00	174.51	0.574	0.077	3.08
48.720	19.153	0.1079268	0.4801819	6	33.1	10.3	0.5	0.17893	146.8	141.8	0.569	1.74	1.07	156.58	0.437	0.077	2.35
48.740	16.931	0.0965603	0.4376888	6	29.9	11.8	0.5	0.17913	129.8	124.8	0.590	1.80	1.11	143.44	0.354	0.077	1.90
48.760	12.7585	0.0904484	0.4948187	6	24.4	16.5	0.5	0.17933	99.0	94.0	0.719	1.95	1.24	122.51	0.251	0.077	1.35
48.780	11.8935	0.0727779	0.4838477	6	22.4	16.2	0.5	0.17953	92.4	87.4	0.622	1.94	1.23	113.64	0.216	0.077	1.16
48.800	11.0923	0.0603155	0.4755259	6	20.7	16.3	0.5	0.17973	86.3	81.3	0.553	1.94	1.23	106.29	0.192	0.077	1.03
48.820	10.5845	0.051753	0.465102	6	19.6	16.2	0.5	0.17993	82.4	77.4	0.499	1.94	1.23	101.21	0.176	0.077	0.95
48.840	10.6418	0.0386024	0.452864	6	18.8	14.2	0.5	0.18013	82.7	77.7	0.370	1.88	1.17	96.82	0.164	0.077	0.88
48.860	10.6436	0.0327122	0.4778295	6	18.4	13.3	0.5	0.18033	82.8	77.8	0.313	1.85	1.15	94.88	0.159	0.076	0.86
48.880	11.0609	0.0298415	0.4629711	6	18.6	12.2	0.5	0.18053	85.8	80.8	0.275	1.81	1.12	95.86	0.162	0.076	0.87
48.900	10.6796	0.0194872	0.4631151	6	17.3	11.2	0.5	0.18073	82.9	77.9	0.196	1.78	1.09	90.29	0.148	0.076	0.80
48.920	10.2679	0.0202126	0.4862953	6	16.9	11.8	0.5	0.18093	80.0	75.0	0.200	1.80	1.11	88.55	0.145	0.075	0.78
48.940	8.7937	0.023946	0.4710338	6	15.6	15.2	0.5	0.18113	68.8	63.9	0.277	1.91	1.20	82.68	0.133	0.075	0.71
48.960	9.0835	0.0266732	0.4637198	6	16.1	15.2	0.5	0.18133	70.9	65.9	0.300	1.91	1.20	85.11	0.137	0.074	0.74
49.040	6.6991	0.0244908	0.4723594	5	13.1	21.5	0.5	0.18213	53.1	48.2	0.377	2.08	1.41	75.10	0.119	0.072	0.64
49.060	6.9373	0.0237529	0.4869576	5	13.3	20.4	0.5	0.18233	55.0	50.0	0.352	2.05	1.37	75.39	0.120	0.071	0.64
49.080	8.7632	0.0229965	0.4983318	6	15.5	15.2	0.5	0.18253	68.6	63.6	0.288	1.91	1.20	82.19	0.132	0.071	0.71
49.100	8.6986	0.0197972	0.4692485	6	15.1	14.8	0.5	0.18273	67.4	62.4	0.236	1.90	1.19	80.09	0.128	0.070	0.69
49.120	9.1315	0.0212171	0.4941564	6	15.8	14.1	0.5	0.18293	71.2	66.2	0.237	1.88	1.17	83.13	0.133	0.070	0.72
49.140	9.4343	0.0199026	0.4762458	6	16.0	13.3	0.5	0.18313	73.2	68.3	0.215	1.85	1.15	83.97	0.135	0.069	0.73

CPT Verileri													I BÖLGESİ												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'v0 [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
50.040	34.2854	0.0689338	0.5037165	6	44.2	3.3	0.5	0.19213	250.8	245.8	0.202	1.33	1.00	250.84	1.548	0.067	2.90								
50.060	33.2814	0.0706574	0.4592199	6	43.6	3.5	0.5	0.19233	243.3	238.3	0.214	1.35	1.00	243.29	1.419	0.067	4.00								
50.080	32.4847	0.0748914	0.48929	6	43.6	3.8	0.5	0.19253	237.6	232.6	0.232	1.38	1.00	237.64	1.328	0.067	4.00								
50.100	30.8231	0.087863	0.506864	6	43.7	4.6	0.5	0.19273	225.7	220.7	0.267	1.44	1.00	225.68	1.149	0.067	4.00								
50.120	30.4271	0.0942988	0.5099704	6	44.1	4.9	0.5	0.19293	222.7	217.7	0.312	1.46	1.00	222.71	1.107	0.067	4.00								
50.140	29.7643	0.087832	0.5087289	6	42.9	4.9	0.5	0.19313	217.8	212.8	0.297	1.46	1.00	217.84	1.041	0.067	4.00								
50.160	29.3166	0.0681339	0.4940125	6	40.4	4.4	0.5	0.19333	214.4	209.4	0.234	1.42	1.00	214.40	0.997	0.067	4.00								
50.180	28.4304	0.0642951	0.481832	6	38.1	4.1	0.5	0.19353	207.8	202.8	0.192	1.40	1.00	207.83	0.915	0.067	4.00								
50.200	27.0752	0.0668957	0.5095331	6	38.3	4.9	0.5	0.19373	198.2	193.2	0.245	1.46	1.00	198.18	0.804	0.067	4.00								
50.240	29.0341	0.0727779	0.3733025	6	40.6	4.7	0.5	0.19413	211.1	206.1	0.253	1.44	1.00	211.06	0.954	0.067	4.00								
50.260	30.4077	0.0781349	0.2870768	6	42.3	4.5	0.5	0.19433	220.0	215.0	0.261	1.43	1.00	220.04	1.071	0.067	4.00								
50.280	31.0271	0.0662491	0.1924391	6	41.4	4.0	0.5	0.19453	223.8	218.8	0.217	1.39	1.00	223.84	1.123	0.067	4.00								
50.300	31.5182	0.0620764	0.1475184	6	41.3	3.8	0.5	0.19473	226.9	221.9	0.200	1.37	1.00	226.92	1.167	0.067	4.00								
50.320	31.6668	0.0598815	0.171217	6	41.2	3.7	0.5	0.19493	228.0	223.0	0.192	1.36	1.00	228.04	1.183	0.067	4.00								
50.340	31.9964	0.0480763	0.321183	6	40.1	3.2	0.5	0.19513	231.4	226.4	0.152	1.32	1.00	231.35	1.232	0.067	4.00								
50.360	32.2586	0.031001	0.4565993	7	38.3	2.7	0.5	0.19533	234.2	229.2	0.097	1.27	1.00	234.15	1.274	0.067	4.00								
50.380	24.9899	0.0145147	0.541064	6	31.5	3.7	0.5	0.19553	182.6	177.6	0.058	1.37	1.00	182.58	0.648	0.067	3.50								
50.400	36.4329	0.0370152	0.510109	7	42.0	2.3	0.5	0.19573	264.1	259.1	0.102	1.22	1.00	264.06	1.792	0.067	4.00								
50.420	38.1388	0.0522552	0.4931488	7	45.0	2.4	0.5	0.19593	276.0	271.0	0.138	1.24	1.00	275.99	2.035	0.067	4.00								
50.440	39.5088	0.0522552	0.4931488	7	45.9	2.3	0.5	0.19613	285.6	280.6	0.133	1.22	1.00	285.63	2.247	0.067	4.00								
50.460	40.8104	0.0680009	0.4168394	7	48.7	2.4	0.5	0.19633	294.2	289.2	0.165	1.24	1.00	294.23	2.449	0.067	4.00								
50.480	42.6086	0.0660383	0.2228462	7	49.6	2.2	0.5	0.19653	305.6	300.6	0.157	1.21	1.00	305.57	2.733	0.067	4.00								
50.500	48.0132	0.0686362	0.1937349	7	53.6	1.7	0.5	0.19673	350.8	345.8	0.142	1.14	1.00	350.83	4.096	0.067	4.00								
50.550	30.2988	0.004954	0.5953144	6	41.5	4.2	0.5	0.19763	219.8	214.8	0.016	1.40	1.00	219.76	1.067	0.067	4.00								
50.790	17.9649	0.013721	0.5592914	6	25.2	5.9	0.5	0.19963	131.1	126.1	0.077	1.52	1.00	131.11	0.290	0.067	1.57								
50.810	18.7339	0.0889356	0.5192372	6	32.5	10.5	0.5	0.19983	136.2	131.2	0.480	1.75	1.07	146.12	0.370	0.067	2.00								
50.830	18.888	0.050916	0.253226	6	29.4	8.1	0.5	0.20003	135.3	130.3	0.276	1.64	1.00	135.24	0.310	0.067	1.68								
50.850	20.954	0.050916	0.253226	6	31.5	6.9	0.5	0.20023	149.9	144.9	0.248	1.58	1.00	149.87	0.393	0.067	2.13								
50.870	22.5879	0.0623988	0.1683374	6	34.1	6.8	0.5	0.20043	160.7	155.7	0.283	1.58	1.00	160.74	0.466	0.067	2.53								
50.890	26.1816	0.0661251	0.12549	6	37.8	5.5	0.5	0.20063	185.7	180.7	0.258	1.50	1.00	185.73	0.676	0.067	3.66								
50.910	26.1816	0.0666769	0.265752	6	38.0	5.5	0.5	0.20083	186.6	181.6	0.259	1.50	1.00	186.62	0.684	0.067	3.71								
50.930	27.8359	0.0663474	0.346337	6	38.4	4.6	0.5	0.20103	198.8	193.8	0.205	1.44	1.00	198.78	0.810	0.067	4.00								
50.950	27.4888	0.0377592	0.3888504	6	36.0	4.0	0.5	0.20123	196.5	191.5	0.139	1.39	1.00	196.52	0.786	0.067	4.00								
50.970	26.8084	0.0248869	0.397001	6	34.0	3.7	0.5	0.20143	191.7	186.7	0.094	1.36	1.00	191.69	0.735	0.067	3.98								
50.990	25.3694	0.0198984	0.3901478	6	32.4	3.9	0.5	0.20163	181.4	176.4	0.080	1.38	1.00	181.38	0.635	0.067	3.44								
51.010	23.9735	0.0275227	0.4005717	6	31.9	4.5	0.5	0.20183	171.6	166.6	0.116	1.43	1.00	171.57	0.550	0.067	2.98								
51.030	23.4039	0.0345537	0.4347805	6	32.3	5.0	0.5	0.20203	167.7	162.7	0.149	1.47	1.00	167.72	0.519	0.067	2.81								
51.050	23.4039	0.0413553	0.4092678	6	33.0	5.3	0.5	0.20223	167.5	162.5	0.179	1.49	1.00	167.45	0.517	0.067	2.80								
51.070	24.4612	0.0412251	0.5783252	6	33.2	5.2	0.5	0.20243	169.0	163.9	0.177	1.48	1.00	168.96	0.529	0.067	2.86								
51.090	25.0388	0.0296368	0.4395893	6	33.2	4.3	0.5	0.20263	179.0	174.0	0.120	1.41	1.00	178.98	0.613	0.067	3.32								
51.110	25.9167	0.0455559	0.4272649	6	35.7	4.7	0.5	0.20283	185.0	180.0	0.178	1.45	1.00	184.98	0.669	0.067	3.62								

CPT Verileri													I BÖLGESİ												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
																89	2.90								
51.130	28.8521	0.0491651	0.3719491	6	36.1	4.9	0.5	0.20303	184.0	179.0	0.193	1.46	1.00	184.04	0.860	0.067	3.58								
51.150	25.6327	0.0491651	0.3719491	6	35.8	5.0	0.5	0.20323	181.7	176.7	0.195	1.47	1.00	181.71	0.838	0.067	3.46								
51.170	25.121	0.0484793	0.3378543	6	35.4	5.1	0.5	0.20343	178.5	173.5	0.196	1.48	1.00	178.50	0.809	0.067	3.30								
51.190	23.7113	0.0445174	0.3368461	6	33.7	5.4	0.5	0.20363	168.5	163.5	0.191	1.50	1.00	168.52	0.525	0.067	2.85								
51.210	23.043	0.04342	0.3422899	6	33.0	5.6	0.5	0.20383	163.8	158.8	0.192	1.51	1.00	163.80	0.489	0.067	2.65								
51.230	22.5113	0.0411941	0.3587897	6	32.3	5.7	0.5	0.20403	160.1	155.1	0.186	1.52	1.00	160.11	0.462	0.067	2.50								
51.250	22.166	0.0394952	0.3754909	6	31.8	5.8	0.5	0.20423	157.7	152.7	0.181	1.52	1.00	157.73	0.445	0.067	2.41								
51.270	22.1965	0.0286821	0.3964539	6	30.7	5.2	0.5	0.20443	158.0	153.0	0.181	1.48	1.00	158.02	0.447	0.067	2.42								
51.290	22.0599	0.0286821	0.3964539	6	30.6	5.2	0.5	0.20463	157.0	152.0	0.132	1.48	1.00	156.98	0.440	0.067	2.38								
51.310	21.8085	0.0210187	0.3899334	6	29.4	5.0	0.5	0.20483	153.6	148.6	0.099	1.47	1.00	153.57	0.417	0.067	2.26								
51.330	21.0908	0.0274049	0.3687499	6	29.6	5.5	0.5	0.20503	150.0	145.0	0.132	1.50	1.00	149.99	0.394	0.067	2.14								
51.350	20.3918	0.0337725	0.4980726	6	29.7	6.2	0.5	0.20523	145.8	140.8	0.167	1.54	1.00	145.82	0.368	0.067	2.00								
51.370	20.3918	0.0330966	0.4635655	6	29.6	6.2	0.5	0.20543	145.4	140.4	0.164	1.54	1.00	145.44	0.366	0.067	1.99								
51.390	22.4051	0.0337105	0.4475656	6	31.5	5.4	0.5	0.20563	159.4	154.3	0.152	1.49	1.00	159.37	0.456	0.067	2.48								
51.410	23.4123	0.0342871	0.4508483	6	32.5	5.1	0.5	0.20583	166.3	161.3	0.148	1.47	1.00	166.33	0.508	0.067	2.75								
51.430	23.5387	0.0338407	0.4638638	6	32.6	5.0	0.5	0.20603	167.2	162.2	0.145	1.47	1.00	167.22	0.515	0.067	2.79								
51.450	23.2295	0.0338407	0.4638638	6	32.4	5.1	0.5	0.20623	165.0	160.0	0.147	1.48	1.00	164.99	0.498	0.067	2.70								
51.470	23.1568	0.0244164	0.4331104	6	31.3	4.7	0.5	0.20643	164.2	159.2	0.107	1.45	1.00	164.19	0.492	0.067	2.67								
51.490	23.1198	0.0279381	0.4077417	6	31.6	4.9	0.5	0.20663	163.7	158.7	0.123	1.46	1.00	163.67	0.488	0.067	2.65								
51.510	22.9895	0.0368805	0.4412882	6	32.4	5.3	0.5	0.20683	162.9	157.9	0.158	1.49	1.00	162.92	0.482	0.067	2.62								
51.530	22.3641	0.0460861	0.4277256	6	32.9	6.1	0.5	0.20703	158.4	153.3	0.209	1.54	1.00	158.37	0.449	0.067	2.44								
51.550	21.2641	0.0488513	0.411065	6	32.2	6.8	0.5	0.20723	150.6	145.5	0.233	1.58	1.00	150.57	0.397	0.067	2.16								
51.570	20.2256	0.0516228	0.4362779	6	31.4	7.5	0.5	0.20743	143.5	138.4	0.259	1.62	1.00	143.46	0.355	0.067	1.92								
51.590	17.8372	0.0526769	0.4424113	6	29.2	9.1	0.5	0.20763	127.6	122.5	0.298	1.69	1.03	131.50	0.291	0.067	1.58								
51.630	17.1119	0.0523606	0.5770006	6	28.4	9.6	0.5	0.20803	122.6	117.6	0.309	1.71	1.05	128.31	0.276	0.067	1.50								
51.650	18.5492	0.0353473	0.4812273	6	28.3	7.3	0.5	0.20823	131.9	126.9	0.193	1.61	1.00	131.88	0.293	0.067	1.59								
51.670	19.9727	0.0399727	0.4494373	6	30.1	6.9	0.5	0.20843	141.5	136.4	0.203	1.58	1.00	141.46	0.343	0.067	1.86								
51.690	21.9482	0.0433394	0.3762396	6	32.3	6.2	0.5	0.20863	154.6	149.5	0.201	1.55	1.00	154.56	0.423	0.067	2.30								
51.710	22.4864	0.0756882	0.3061806	6	35.9	7.8	0.5	0.20883	157.7	152.7	0.343	1.63	1.00	157.72	0.445	0.067	2.41								
51.730	24.1997	0.0642216	0.2148979	6	36.4	6.5	0.5	0.20903	168.9	163.8	0.271	1.56	1.00	168.87	0.528	0.067	2.86								
51.750	26.0625	0.0612579	0.0890839	6	37.8	5.7	0.5	0.20923	180.8	175.8	0.241	1.51	1.00	180.79	0.630	0.067	3.42								
51.770	26.0625	0.0635334	0.0494704	6	39.8	5.1	0.5	0.20943	194.2	189.2	0.232	1.47	1.00	194.22	0.761	0.067	4.00								
51.790	28.1627	0.0607929	0.0309262	6	39.6	5.0	0.5	0.20963	194.7	189.7	0.221	1.47	1.00	194.73	0.767	0.067	4.00								
51.810	28.1627	0.0508726	0.0400543	6	38.5	4.6	0.5	0.20983	194.7	189.7	0.185	1.44	1.00	194.70	0.766	0.067	4.00								
51.830	24.7905	0.0397619	0.064981	6	34.3	5.1	0.5	0.21003	171.5	166.5	0.165	1.48	1.00	171.51	0.549	0.067	2.98								
51.850	22.8492	0.0366449	0.0978753	6	32.1	5.6	0.5	0.21023	158.3	153.2	0.160	1.51	1.00	158.26	0.449	0.067	2.44								
51.870	21.998	0.0355829	0.2180957	6	31.5	5.9	0.5	0.21043	153.1	148.1	0.166	1.53	1.00	153.15	0.414	0.067	2.25								
51.890	26.2407	0.0535325	0.6362813	6	37.7	5.1	0.5	0.21063	185.2	180.2	0.205	1.48	1.00	185.19	0.671	0.067	3.64								
51.910	31.6927	0.0733235	0.353113	6	44.4	4.4	0.5	0.21083	220.7	215.7	0.234	1.43	1.00	220.70	1.080	0.067	4.00								
51.930	40.2205	0.0657117	0.1268722	7	49.7	2.8	0.5	0.21103	277.7	272.7	0.166	1.27	1.00	277.74	2.073	0.067	4.00								
51.950	43.325	0.0658647	0.0594623	7	51.8	2.4	0.5	0.21123	298.5	293.5	0.154	1.23	1.00	298.51	2.554	0.067	4.00								

CPT Verileri													I BÖLGESİ												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
																89	2.90								
51.970	46.1765	0.0931083	0.0192353	7	57.4	2.6	0.5	0.21143	317.7	312.7	0.205	1.26	1.00	317.70	3.062	0.067	4.00								
51.990	50.6121	0.0891216	-0.0187745	7	59.6	2.1	0.5	0.21163	347.8	342.8	0.179	1.20	1.00	347.78	3.992	0.067	4.00								
52.010	54.0793	0.0862757	-0.0176515	7	61.2	1.8	0.5	0.21183	371.4	366.4	0.162	1.15	1.00	371.45	4.846	0.067	4.00								
52.030	56.0216	0.0908639	-0.0319916	7	63.0	1.7	0.5	0.21203	384.5	379.5	0.164	1.14	1.00	384.51	5.367	0.067	4.00								
52.050	56.1001	0.0903058	-0.043049	7	63.0	1.7	0.5	0.21223	384.8	379.8	0.163	1.14	1.00	384.79	5.379	0.067	4.00								
52.070	55.5896	0.089362	-0.0379083	7	62.6	1.8	0.5	0.21243	381.1	376.1	0.164	1.14	1.00	381.14	5.229	0.067	4.00								
52.090	54.3314	0.0771118	-0.025887	7	60.1	1.7	0.5	0.21263	372.4	367.4	0.144	1.13	1.00	372.42	4.884	0.067	4.00								
52.110	53.7895	0.0738009	-0.0015549	7	59.3	1.7	0.5	0.21283	368.7	363.7	0.139	1.13	1.00	368.70	4.741	0.067	4.00								
52.130	54.3037	0.082289	0.0502478	7	61.0	1.8	0.5	0.21303	372.4	367.4	0.153	1.14	1.00	372.40	4.883	0.067	4.00								
52.150	48.8866	0.0841242	0.5980499	7	58.5	2.2	0.5	0.21323	338.9	333.9	0.173	1.20	1.00	338.89	3.700	0.067	4.00								
52.170	53.5633	0.0830392	0.4507907	7	61.0	1.8	0.5	0.21343	369.7	364.7	0.156	1.15	1.00	369.73	4.780	0.067	4.00								
52.190	53.843	0.0843041	0.3876586	7	61.3	1.8	0.5	0.21363	370.9	365.9	0.158	1.15	1.00	370.90	4.825	0.067	4.00								
52.210	52.8614	0.0840436	0.3587452	7	60.6	1.9	0.5	0.21383	362.6	357.5	0.161	1.16	1.00	362.57	4.513	0.067	4.00								
52.230	48.8148	0.0842793	0.3589338	7	58.4	2.2	0.5	0.21403	338.1	331.1	0.174	1.21	1.00	336.12	3.612	0.067	4.00								
52.250	46.8051	0.0807885	0.3652686	7	56.7	2.3	0.5	0.21423	322.3	317.2	0.174	1.22	1.00	322.28	3.193	0.067	4.00								
52.270	46.7664	0.0569178	0.4103045	7	53.4	2.0	0.5	0.21443	322.2	317.1	0.123	1.18	1.00	322.17	3.190	0.067	4.00								
52.290	48.139	0.085746	0.4213819	7	54.0	1.9	0.5	0.21463	331.5	326.4	0.117	1.16	1.00	331.46	3.467	0.067	4.00								
52.310	48.8406	0.0558452	0.4080223	7	54.5	1.8	0.5	0.21483	336.0	331.0	0.115	1.15	1.00	336.01	3.608	0.067	4.00								
52.330	48.9671	0.0567814	0.3950718	7	54.7	1.8	0.5	0.21503	336.6	331.6	0.117	1.15	1.00	336.62	3.627	0.067	4.00								
52.350	47.4199	0.0573642	0.3534825	7	53.9	1.9	0.5	0.21523	325.6	320.6	0.122	1.17	1.00	325.64	3.291	0.067	4.00								
52.370	46.363	0.0673589	0.3500285	7	54.7	2.2	0.5	0.21543	318.3	313.2	0.147	1.20	1.00	318.27	3.078	0.067	4.00								
52.390	45.3835	0.0598654	0.3543855	7	56.4	2.6	0.5	0.21563	311.5	306.4	0.186	1.25	1.00	311.48	2.890	0.067	4.00								
52.430	44.8149	0.063056	0.5105986	7	53.3	2.3	0.5	0.21603	308.4	303.3	0.141	1.21	1.00	308.38	2.807	0.067	4.00								
52.450	45.4112	0.0604891	0.448919	7	53.3	2.2	0.5	0.21623	311.9	306.8	0.134	1.20	1.00	311.87	2.901	0.067	4.00								
52.470	44.7512	0.0566636	0.3850222	7	52.3	2.2	0.5	0.21643	306.8	301.8	0.128	1.20	1.00	306.81	2.766	0.067	4.00								
52.490	43.2474	0.0621012	0.208075	7	51.3	2.3	0.5	0.21663	295.2	290.2	0.133	1.22	1.00	295.25	2.474	0.067	4.00								
52.510	42.6714	0.0621012	0.0807133	7	51.6	2.5	0.5	0.21683	290.3	285.3	0.148	1.25	1.00	290.33	2.356	0.067	4.00								
52.530	42.5348	0.0714324	0.1679631	7	52.8	2.7	0.5	0.21703	289.9	284.8	0.170	1.27	1.00	289.87	2.345	0.067	4.00								
52.550	42.9271	0.0797283	0.3428946	7	54.4	2.8	0.5	0.21723	293.6	288.5	0.187	1.28	1.00	293.58	2.433	0.067	4.00								
52.570	45.4472	0.0933306	0.3952157	7	56.6	2.6	0.5	0.21743	310.9	305.9	0.185	1.25	1.00	310.99	2.875	0.067	4.00								
52.590	46.7525	0.0845273	0.4019538	7	57.7	2.5	0.5	0.21763	319.6	314.6	0.182	1.24	1.00	319.64	3.117	0.067	4.00								
52.610	47.2741	0.0641366	0.4365658	7	58.0	2.4	0.5	0.21783	323.3	318.2	0.179	1.23	1.00	323.26	3.222	0.067	4.00								
52.630	46.8891	0.0845893	0.4174457	7	57.8	2.4	0.5	0.21803	320.4	315.3	0.182	1.24	1.00	320.38	3.138	0.067	4.00								
52.650	45.005	0.0788479	0.3887944	7	55.8	2.5	0.5	0.21823	307.3	302.2	0.177	1.25	1.00	307.28	2.778	0.067	4.00								
52.670	44.1373	0.0652279	0.3209238	7	56.1	2.8	0.5	0.21843	300.8	295.8	0.195	1.28	1.00	300.81	2.611	0.067	4.00								
52.710	41.1787	0.0795237	0.4844524	7	53.4	3.0	0.5	0.21883	281.6	276.6	0.194	1.30	1.00	281.64	2.158	0.067	4.00								
52.730	40.5408	0.0735343	0.4528927	7	52.1	3.0	0.5	0.21903	277.0	271.9	0.183	1.30	1.00	276.99	2.056	0.067	4.00								
52.750	39.6943	0.0904599	0.4263147	6	52.4	3.3	0.5	0.21923	271.0	265.9	0.204	1.33	1.00	270.97	1.930	0.067	4.00								
52.770	39.8078	0.0807885	0.4358731	6	52.6	3.3	0.5	0.21943	271.9	266.8	0.204	1.33	1.00	271.85	1.948	0.067	4.00								
52.790	40.227	0.0739683	0.4453196	7	52.0	3.1	0.5	0.21963	274.4	269.4	0.185	1.31	1.00	274.44	2.002	0.067	4.00								
52.810	39.9528	0.0708364	0.4310859	7	51.4	3.0	0.5	0.21983	272.4	267.3	0.179	1.30	1.00	272.37	1.959	0.067	4.00								

CPT Verileri														I BÖLGESİ			
Derinlik m	qc Kontı Uç Direnci	fs Sürtümme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'v0 [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
52.830	39.2964	0.0627522	0.3392664	7	49.8	3.0	0.5	0.22003	267.2	262.2	0.161	1.30	1.00	267.21	1.854	0.067	2.90
52.850	38.6881	0.0547477	0.2318023	7	48.3	2.9	0.5	0.22023	262.3	257.2	0.143	1.29	1.00	262.26	1.758	0.067	4.00
52.870	38.0401	0.0678699	0.0818939	7	48.1	3.1	0.5	0.22043	266.8	251.7	0.154	1.31	1.00	256.77	1.654	0.067	4.00
52.890	37.0929	0.0641286	0.1597852	6	48.3	3.4	0.5	0.22063	250.8	245.8	0.176	1.33	1.00	250.80	1.547	0.067	4.00
52.910	37.1631	0.0752384	0.2475245	6	49.9	3.6	0.5	0.22083	251.7	246.7	0.205	1.36	1.00	251.75	1.564	0.067	4.00
52.930	37.789	0.081607	0.3753758	6	51.3	3.7	0.5	0.22103	256.7	251.7	0.218	1.36	1.00	256.70	1.653	0.067	4.00
52.950	36.9778	0.0572216	0.4747196	6	46.9	3.3	0.5	0.22123	244.9	239.8	0.160	1.33	1.00	244.86	1.445	0.067	4.00
53.010	34.9684	0.064699	0.454822	6	47.1	3.7	0.5	0.22143	238.0	232.9	0.187	1.37	1.00	237.96	1.333	0.067	4.00
53.030	33.5085	0.0717735	0.4384087	6	46.8	4.2	0.5	0.22163	227.8	222.8	0.216	1.41	1.00	227.82	1.180	0.067	4.00
53.050	31.6271	0.07825	0.4114275	6	45.7	4.8	0.5	0.22183	214.9	209.9	0.244	1.45	1.00	214.92	1.003	0.067	4.00
53.070	29.8898	0.0825928	0.4133856	6	44.8	5.5	0.5	0.22203	203.2	198.1	0.280	1.50	1.00	203.18	0.860	0.067	4.00
53.090	28.4922	0.0892846	0.4410579	6	44.1	6.2	0.5	0.22223	193.9	188.9	0.313	1.54	1.00	193.91	0.758	0.067	4.00
53.110	27.3245	0.0843165	0.4574712	6	42.6	6.5	0.5	0.22243	186.1	181.1	0.312	1.56	1.00	186.11	0.680	0.067	4.00
53.130	27.8054	0.0841118	0.4805075	6	43.1	6.3	0.5	0.22263	189.4	184.4	0.306	1.55	1.00	189.40	0.712	0.067	4.00
53.150	28.6778	0.0737141	0.5103106	6	42.9	5.6	0.5	0.22283	195.4	190.3	0.259	1.50	1.00	195.36	0.773	0.067	4.00
53.170	29.2741	0.0737141	0.5103106	6	43.5	5.4	0.5	0.22303	199.3	194.2	0.254	1.49	1.00	199.26	0.816	0.067	4.00
53.190	28.2464	0.0683731	0.473559	6	42.6	5.1	0.5	0.22323	198.7	193.7	0.229	1.48	1.00	198.74	0.810	0.067	4.00
53.210	28.9427	0.0624174	0.4215346	6	41.9	5.1	0.5	0.22343	196.3	191.2	0.218	1.47	1.00	196.27	0.783	0.067	1.90
53.250	27.2238	0.0565086	0.4998291	6	39.8	5.4	0.5	0.22363	185.1	180.1	0.210	1.49	1.00	185.14	0.670	0.067	1.35
53.270	27.2238	0.0558452	0.485489	6	39.7	5.3	0.5	0.22383	185.0	179.9	0.207	1.49	1.00	184.96	0.668	0.067	1.18
53.290	28.3159	0.0562189	0.5000595	6	40.7	5.0	0.5	0.22403	192.3	187.2	0.197	1.47	1.00	192.26	0.741	0.067	1.03
53.310	29.3249	0.0541835	0.5123263	6	41.5	4.7	0.5	0.22423	199.0	193.9	0.186	1.44	1.00	198.99	0.813	0.067	0.95
53.330	30.1704	0.0531977	0.5111457	6	42.1	4.4	0.5	0.22443	204.5	199.5	0.178	1.43	1.00	204.53	0.876	0.067	0.88
53.350	28.7606	0.0561304	0.5048971	6	42.1	4.7	0.5	0.22463	201.7	196.6	0.190	1.44	1.00	201.67	0.843	0.067	0.86
53.370	29.4107	0.0606689	0.5041772	6	42.3	4.9	0.5	0.22483	199.2	194.2	0.208	1.46	1.00	199.24	0.816	0.067	0.87
53.390	28.8781	0.0668691	0.5025359	6	42.5	5.3	0.5	0.22503	195.6	190.5	0.234	1.49	1.00	195.60	0.776	0.067	0.80
53.410	29.6489	0.0652685	0.5112033	6	43.1	5.0	0.5	0.22523	200.7	195.6	0.222	1.47	1.00	200.70	0.832	0.067	0.78
53.430	31.8862	0.0607957	0.501672	6	44.3	4.4	0.5	0.22543	214.1	209.0	0.193	1.42	1.00	214.10	0.993	0.067	0.71
53.450	34.8535	0.0652685	0.526292	6	47.5	3.8	0.5	0.22563	235.2	230.2	0.189	1.38	1.00	235.22	1.290	0.067	4.00
53.470	40.9535	0.0693368	0.5268967	7	52.8	3.0	0.5	0.22583	275.7	270.6	0.170	1.30	1.00	275.66	2.028	0.067	4.00
53.470	40.9535	0.0693368	0.5268967	7	52.8	3.0	0.5	0.22643	275.7	270.6	0.170	1.30	1.00	275.66	2.028	0.067	4.00

CPT Verileri														JBÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{cs} CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															61	3.50	
44.580	30.5711	0.0371702	0.4126368	7	31.3	1.9	0.5	0.13733	264.4	289.4	0.122	1.17	1.00	264.39	1.789	4.00	
44.580	31.1083	0.0360355	0.4096134	7	31.5	1.8	0.5	0.13753	266.8	283.8	0.116	1.15	1.00	268.76	1.885	4.00	
44.600	31.5642	0.0384846	0.4117154	7	32.0	1.8	0.5	0.13773	272.4	267.4	0.123	1.15	1.00	272.38	1.959	4.00	
44.620	32.3204	0.0400834	0.420364	7	33.2	1.9	0.5	0.13793	278.8	273.8	0.137	1.16	1.00	278.78	2.095	4.00	
44.640	33.1734	0.0469886	0.4196054	7	34.5	1.9	0.5	0.13813	285.8	280.9	0.151	1.16	1.00	285.83	2.252	4.00	
44.660	33.3829	0.0536503	0.4225713	7	35.1	1.9	0.5	0.13833	287.4	282.5	0.161	1.17	1.00	287.43	2.288	4.00	
44.680	32.9334	0.0603093	0.4210739	7	35.8	2.1	0.5	0.13853	283.4	278.4	0.184	1.20	1.00	283.39	2.197	4.00	
44.700	31.3917	0.070025	0.4234638	7	36.3	2.6	0.5	0.13873	270.1	265.1	0.224	1.25	1.00	270.12	1.913	4.00	
44.720	29.8003	0.0715813	0.4151211	7	35.5	2.9	0.5	0.13893	256.4	251.4	0.242	1.29	1.00	256.36	1.647	4.00	
44.740	28.5227	0.0719347	0.4103045	6	34.8	3.2	0.5	0.13913	245.3	240.3	0.254	1.32	1.00	245.29	1.453	4.00	
44.760	25.6204	0.0776574	0.3915011	6	33.5	4.1	0.5	0.13933	220.4	215.4	0.305	1.40	1.00	220.37	1.075	4.00	
44.780	22.6516	0.0815574	0.3827186	6	31.6	5.3	0.5	0.13953	195.0	190.0	0.363	1.49	1.00	195.00	0.770	4.00	
44.800	18.3822	0.0892828	0.4395028	6	28.5	7.8	0.5	0.13993	159.1	154.1	0.490	1.63	1.00	159.11	0.455	2.25	
44.840	16.8664	0.0692748	0.4298377	6	25.6	7.7	0.5	0.14013	146.1	141.1	0.415	1.63	1.00	146.11	0.370	1.83	
44.860	16.955	0.0630808	0.431901	6	25.2	7.3	0.5	0.14033	146.8	141.8	0.376	1.60	1.00	146.77	0.374	1.85	
44.880	17.568	0.0530513	0.4416914	6	24.9	6.2	0.5	0.14053	151.9	147.0	0.305	1.55	1.00	151.92	0.406	2.01	
44.900	18.1163	0.0437982	0.4436207	6	24.5	5.4	0.5	0.14073	156.5	151.5	0.244	1.49	1.00	156.45	0.436	2.16	
44.920	18.5317	0.0383172	0.4440814	6	24.3	4.9	0.5	0.14093	159.8	154.9	0.208	1.46	1.00	159.84	0.460	2.28	
44.940	19.3754	0.0289363	0.4383789	6	23.8	4.0	0.5	0.14113	166.8	161.8	0.151	1.39	1.00	166.79	0.511	2.53	
44.960	19.8758	0.0284559	0.4391862	6	24.2	3.8	0.5	0.14133	170.9	165.9	0.144	1.38	1.00	170.88	0.544	2.89	
44.980	21.468	0.0303624	0.4459819	6	25.5	3.5	0.5	0.14153	184.1	179.1	0.142	1.35	1.00	184.12	0.680	3.27	
45.000	23.2535	0.038249	0.4434767	6	27.7	3.3	0.5	0.14173	199.0	194.1	0.166	1.33	1.00	199.05	0.813	4.00	
45.020	25.3277	0.0461805	0.4378328	6	30.0	3.1	0.5	0.14193	216.3	211.3	0.183	1.31	1.00	216.27	1.021	4.00	
45.040	25.5004	0.0466689	0.4379433	6	30.2	3.1	0.5	0.14213	217.5	212.5	0.184	1.31	1.00	217.57	1.038	4.00	
45.060	25.8087	0.0475493	0.4343486	7	30.5	3.1	0.5	0.14233	220.0	215.0	0.185	1.31	1.00	219.97	1.070	4.00	
45.080	24.7176	0.0515298	0.4389846	6	30.3	3.5	0.5	0.14253	210.7	205.7	0.210	1.35	1.00	210.72	0.950	4.00	
45.100	24.9096	0.0503022	0.427966	6	30.3	3.4	0.5	0.14273	212.1	207.1	0.203	1.34	1.00	212.08	0.967	4.00	
45.120	24.9663	0.0525777	0.4276105	6	30.7	3.5	0.5	0.14293	212.7	207.7	0.212	1.35	1.00	212.66	0.974	4.00	
45.140	24.9869	0.0548159	0.4275528	6	30.9	3.6	0.5	0.14313	212.5	207.5	0.221	1.35	1.00	212.45	0.972	4.00	
45.160	24.7822	0.0536751	0.424443	6	30.7	3.6	0.5	0.14333	210.5	205.5	0.218	1.36	1.00	210.55	0.948	4.00	
45.180	24.4268	0.0514926	0.4298429	6	30.2	3.6	0.5	0.14353	207.5	202.5	0.212	1.36	1.00	207.48	0.911	4.00	
45.200	24.2154	0.0493184	0.4304612	6	29.8	3.6	0.5	0.14373	205.9	200.9	0.205	1.36	1.00	205.58	0.888	4.00	
45.240	22.7553	0.0466131	0.4259068	6	28.3	3.7	0.5	0.14393	200.4	195.4	0.204	1.37	1.00	200.42	0.829	4.00	
45.280	21.986	0.0479089	0.4271497	6	28.2	4.2	0.5	0.14413	193.1	188.1	0.206	1.38	1.00	193.08	0.749	3.71	
45.280	21.8559	0.0546795	0.433168	6	28.6	4.6	0.5	0.14453	185.4	180.4	0.252	1.44	1.00	186.56	0.684	3.38	
45.300	22.7495	0.0550577	0.4413746	6	29.5	4.3	0.5	0.14473	192.8	187.8	0.244	1.41	1.00	185.40	0.673	3.33	
45.320	24.5182	0.0542393	0.4478536	6	30.7	3.7	0.5	0.14493	207.4	202.4	0.223	1.37	1.00	192.77	0.746	3.59	
45.340	25.4607	0.0486653	0.4444557	6	30.7	3.3	0.5	0.14513	210.1	210.1	0.192	1.33	1.00	207.38	0.909	4.00	
45.360	25.201	0.0428247	0.4396757	7	30.5	2.9	0.5	0.14533	221.0	216.0	0.164	1.29	1.00	215.03	1.005	4.00	
45.380	26.2001	0.0404129	0.4384951	7	30.2	2.9	0.5	0.14553	220.8	215.9	0.155	1.28	1.00	220.82	1.081	4.00	

CPT Verileri													JBÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnç Katsayısı	Uç Katsayısı	Sürtünme Katsayısı	Boşluk Suyu Basıncı													61	3.50
45.400	26.3616	0.037646	0.4344062	7	30.0	2.8	0.5	0.14573	222.0	217.0	0.144	1.27	1.00	221.97	1.097	0.061	4.00
45.420	26.5463	0.0502278	0.4282728	6	31.7	3.1	0.5	0.14593	223.3	218.3	0.190	1.31	1.00	223.29	1.115	0.061	4.00
45.440	26.3667	0.0440524	0.4331392	7	30.9	3.0	0.5	0.14613	221.9	217.0	0.168	1.29	1.00	221.95	1.097	0.061	4.00
45.460	26.757	0.0474377	0.4344637	6	30.9	3.2	0.5	0.14633	216.5	211.5	0.185	1.32	1.00	216.52	1.024	0.061	4.00
45.480	25.0914	0.049831	0.4314114	6	30.8	3.5	0.5	0.14653	210.8	205.9	0.200	1.34	1.00	210.85	0.952	0.061	4.00
45.500	24.3815	0.0475927	0.4278984	6	30.0	3.6	0.5	0.14673	204.8	199.8	0.197	1.35	1.00	204.81	0.879	0.061	4.00
45.520	23.4981	0.0611959	0.4306916	6	30.9	4.4	0.5	0.14693	197.4	192.4	0.262	1.42	1.00	197.41	0.795	0.061	3.94
45.540	23.8138	0.0687451	0.4359889	6	31.8	4.5	0.5	0.14713	199.9	195.0	0.282	1.43	1.00	199.92	0.823	0.061	4.00
45.560	24.7969	0.0714252	0.4478824	6	33.0	4.4	0.5	0.14733	208.0	203.0	0.290	1.42	1.00	207.98	0.917	0.061	4.00
45.580	26.0192	0.0688408	0.4464138	6	33.7	3.9	0.5	0.14753	217.9	212.9	0.266	1.39	1.00	217.89	1.042	0.061	4.00
45.600	26.6881	0.0703908	0.4520577	6	34.3	3.8	0.5	0.14773	223.1	218.2	0.265	1.38	1.00	223.13	1.113	0.061	4.00
45.620	26.8362	0.0612579	0.4367962	6	33.4	3.6	0.5	0.14793	224.2	219.3	0.230	1.35	1.00	224.23	1.128	0.061	4.00
45.640	25.7985	0.0604395	0.4310083	6	32.6	3.7	0.5	0.14813	216.5	210.5	0.236	1.37	1.00	215.51	1.011	0.061	4.00
45.660	25.0148	0.0561242	0.4315554	6	31.6	3.8	0.5	0.14833	208.9	204.0	0.226	1.37	1.00	208.93	0.928	0.061	4.00
45.680	24.8071	0.0590011	0.4341182	6	31.8	3.9	0.5	0.14853	207.1	202.1	0.239	1.39	1.00	207.11	0.906	0.061	4.00
45.700	25.5619	0.0596459	0.4422385	6	32.5	3.7	0.5	0.14873	214.0	209.1	0.234	1.37	1.00	214.05	0.992	0.061	4.00
45.720	27.2414	0.0590941	0.4520865	6	33.5	3.3	0.5	0.14893	226.9	222.0	0.218	1.33	1.00	226.93	1.167	0.061	4.00
45.740	29.1024	0.0610657	0.4473353	7	35.0	3.0	0.5	0.14913	242.0	237.0	0.211	1.30	1.00	241.98	1.388	0.061	4.00
45.760	31.1887	0.0607123	0.4443981	7	36.3	2.6	0.5	0.14933	256.9	253.9	0.196	1.26	1.00	256.86	1.693	0.061	4.00
45.780	31.6234	0.0604829	0.4428144	7	36.5	2.6	0.5	0.14953	262.2	257.3	0.192	1.25	1.00	262.23	1.757	0.061	4.00
45.800	32.757	0.0547849	0.4371128	7	36.4	2.3	0.5	0.14973	271.3	266.3	0.168	1.22	1.00	271.27	1.937	0.061	4.00
45.820	34.0762	0.0474439	0.440338	7	36.2	2.0	0.5	0.14993	281.9	276.9	0.140	1.17	1.00	281.89	2.163	0.061	4.00
45.840	35.5632	0.0457512	0.4412882	7	36.7	1.8	0.5	0.15013	293.8	288.8	0.129	1.15	1.00	293.77	2.438	0.061	4.00
45.860	37.1086	0.0597265	0.4390344	7	38.5	1.9	0.5	0.15033	306.0	301.1	0.162	1.16	1.00	306.03	2.745	0.061	4.00
45.900	36.9277	0.0603851	0.4228713	7	39.5	1.9	0.5	0.15073	304.2	299.3	0.164	1.17	1.00	304.22	2.689	0.061	4.00
45.920	35.4869	0.0524351	0.4114851	7	37.7	1.9	0.5	0.15093	292.3	287.3	0.149	1.17	1.00	292.29	2.402	0.061	4.00
45.940	33.8574	0.0471277	0.4004277	7	36.2	2.0	0.5	0.15113	278.7	273.7	0.140	1.18	1.00	278.67	2.093	0.061	4.00
45.980	32.806	0.050761	0.4044302	7	36.1	2.2	0.5	0.15133	270.0	265.0	0.156	1.21	1.00	269.97	1.910	0.061	4.00
45.980	31.8201	0.0593545	0.403624	7	36.7	2.6	0.5	0.15153	261.8	256.8	0.188	1.25	1.00	261.77	1.748	0.061	4.00
46.000	30.6579	0.052437	0.4069354	7	35.5	2.7	0.5	0.15173	252.2	247.2	0.181	1.26	1.00	252.19	1.572	0.061	4.00
46.020	29.7043	0.0492544	0.4053805	7	34.2	2.7	0.5	0.15193	244.3	239.3	0.167	1.26	1.00	244.28	1.436	0.061	4.00
46.040	28.4405	0.050947	0.4100453	7	33.6	2.9	0.5	0.15213	233.9	228.9	0.180	1.29	1.00	233.91	1.270	0.061	4.00
46.060	27.27	0.0466193	0.406849	7	32.4	3.0	0.5	0.15233	224.2	219.3	0.172	1.30	1.00	224.25	1.129	0.061	4.00
46.080	25.4514	0.0465706	0.3979513	6	31.5	3.6	0.5	0.15253	209.3	204.3	0.196	1.35	1.00	209.30	0.933	0.061	4.00
46.100	23.5147	0.0551693	0.3911844	6	30.8	4.3	0.5	0.15273	193.4	188.5	0.237	1.42	1.00	193.44	0.753	0.061	3.75
46.140	20.1638	0.050079	0.4429584	6	27.7	5.3	0.5	0.15313	166.0	161.6	0.250	1.49	1.00	166.53	0.509	0.061	2.54
46.160	20.1444	0.0433766	0.4118018	6	27.0	5.0	0.5	0.15333	166.0	161.0	0.218	1.47	1.00	166.01	0.505	0.061	2.52
46.180	18.7809	0.0367858	0.3970298	6	25.2	5.2	0.5	0.15353	154.8	149.8	0.198	1.48	1.00	154.78	0.425	0.061	2.12
46.200	18.1874	0.0395334	0.3842032	6	24.9	5.7	0.5	0.15373	149.8	144.7	0.219	1.51	1.00	149.62	0.392	0.061	1.95
46.220	18.1117	0.0652571	0.2130566	6	27.2	7.5	0.5	0.15393	147.7	142.7	0.369	1.61	1.00	147.70	0.380	0.061	1.89
46.240	18.384	0.0937966	0.1090479	6	28.4	9.1	0.5	0.15413	149.0	144.0	0.525	1.89	1.03	153.68	0.418	0.061	2.08

CPT Verileri														J BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
	Koni Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı			[%]		[MPa]			[%]					61	3.50
46.260	19.0874	0.1108099	0.0734568	6	31.2	9.5	0.5	0.15433	154.2	149.3	0.598	1.71	1.04	161.16	0.469	0.061	2.34
46.280	21.0186	0.0948994	0.0598649	6	32.1	7.4	0.5	0.15453	169.6	164.6	0.463	1.61	1.00	169.55	0.533	0.061	2.66
46.300	23.2101	0.0834174	0.0552582	6	33.2	5.9	0.5	0.15473	187.0	182.1	0.368	1.52	1.00	187.03	0.688	0.061	3.43
46.320	24.9843	0.0841118	0.0569859	6	34.8	5.2	0.5	0.15493	201.2	196.2	0.344	1.48	1.00	201.18	0.837	0.061	4.00
46.340	25.6582	0.0746528	0.0624282	6	34.4	4.6	0.5	0.15513	206.5	201.5	0.297	1.44	1.00	206.51	0.899	0.061	4.00
46.360	26.1969	0.0624794	0.0883689	6	33.5	4.0	0.5	0.15533	210.5	205.5	0.244	1.39	1.00	210.50	0.947	0.061	4.00
46.380	26.7549	0.0417397	0.081318	6	31.5	3.1	0.5	0.15553	215.2	210.2	0.159	1.31	1.00	215.19	1.007	0.061	4.00
46.420	28.0925	0.0490249	0.4801492	7	33.6	3.0	0.5	0.15593	228.7	223.7	0.176	1.30	1.00	228.66	1.192	0.061	4.00
46.440	27.9042	0.0459906	0.44794	7	33.1	3.0	0.5	0.15613	226.9	221.9	0.166	1.30	1.00	226.90	1.166	0.061	4.00
46.460	27.7242	0.0387898	0.4435055	7	32.1	2.8	0.5	0.15633	225.3	220.3	0.141	1.28	1.00	225.28	1.143	0.061	4.00
46.480	29.8492	0.0398995	0.4465002	7	32.9	2.3	0.5	0.15653	242.1	237.2	0.115	1.22	1.00	242.15	1.400	0.061	4.00
46.500	33.2721	0.0410939	0.4566361	7	35.8	2.1	0.5	0.15673	269.4	264.5	0.124	1.19	1.00	269.42	1.899	0.061	4.00
46.520	41.3504	0.0482747	0.469738	7	40.9	1.4	0.5	0.15693	333.8	328.9	0.117	1.09	1.00	333.84	3.540	0.061	4.00
46.770	47.2141	0.1419535	0.4841933	7	57.2	2.3	0.5	0.15943	377.8	372.8	0.302	1.22	1.00	377.76	5.093	0.061	4.00
47.030	37.3034	0.4442192	0.0315685	6	69.4	9.6	0.5	0.16203	293.3	288.3	1.210	1.71	1.05	307.33	2.780	0.061	4.00
47.050	52.5907	0.3957547	0.0302639	6	84.0	5.0	0.5	0.16223	412.8	407.9	0.762	1.46	1.00	412.82	6.623	0.061	4.00
47.070	42.5431	0.7256846	-0.0501614	6	86.4	11.9	0.5	0.16243	333.4	328.4	1.734	1.80	1.11	369.63	4.777	0.061	4.00
47.090	37.8176	0.7256846	-0.0613916	6	79.3	14.0	0.5	0.16263	296.1	291.1	1.955	1.88	1.17	345.50	3.915	0.061	4.00
47.110	38.7909	0.7256846	-0.0714124	6	80.7	13.8	0.5	0.16283	303.1	298.2	1.907	1.86	1.15	349.93	4.095	0.061	4.00
47.130	41.1972	0.6327051	-0.0730625	6	81.5	11.2	0.5	0.16303	322.1	317.1	1.563	1.78	1.09	350.93	4.099	0.061	4.00
47.150	42.0067	0.6019831	-0.0671795	6	81.6	10.4	0.5	0.16323	326.3	323.3	1.457	1.75	1.07	351.12	4.106	0.061	4.00
47.170	41.7307	0.5699281	-0.0619099	6	80.1	10.1	0.5	0.16343	325.9	321.0	1.389	1.73	1.06	345.46	3.914	0.061	4.00
47.210	35.4766	0.2518643	0.2508072	6	58.0	6.6	0.5	0.16383	279.1	274.2	0.718	1.57	1.00	279.13	2.103	0.061	4.00
47.230	35.3021	0.1896578	0.3029555	6	53.6	5.3	0.5	0.16403	276.0	273.0	0.542	1.49	1.00	278.00	2.078	0.061	4.00
47.250	35.3926	0.1404034	0.2619798	6	49.5	4.2	0.5	0.16423	278.2	273.3	0.401	1.41	1.00	278.22	2.083	0.061	4.00
47.270	35.6096	0.1180827	0.2138628	6	47.5	3.7	0.5	0.16443	279.4	274.4	0.336	1.36	1.00	279.37	2.108	0.061	4.00
47.290	32.2521	0.0680037	0.1785022	7	39.4	3.1	0.5	0.16463	252.8	247.6	0.214	1.31	1.00	252.76	1.582	0.061	4.00
47.310	30.1714	0.0500418	0.1725415	7	35.8	2.9	0.5	0.16483	236.3	231.4	0.168	1.29	1.00	236.35	1.308	0.061	4.00
47.330	27.4158	0.0472289	0.1654081	6	33.6	3.4	0.5	0.16503	214.7	209.7	0.175	1.34	1.00	214.71	1.001	0.061	4.00
47.350	22.1983	0.0472289	0.1715337	6	29.7	4.9	0.5	0.16523	173.6	168.6	0.218	1.46	1.00	173.56	0.566	0.061	2.84
47.370	20.197	0.0447654	0.1720808	6	27.8	5.6	0.5	0.16543	158.4	153.4	0.227	1.51	1.00	158.37	0.449	0.061	2.25
47.390	18.8834	0.0422233	0.1784158	6	26.5	6.1	0.5	0.16563	148.1	143.1	0.229	1.54	1.00	148.11	0.382	0.061	1.92
47.410	18.0378	0.0446348	0.1977096	6	26.0	6.7	0.5	0.16583	141.5	136.6	0.254	1.57	1.00	141.61	0.344	0.061	1.73
47.430	18.348	0.0337353	0.264781	6	25.2	5.8	0.5	0.16603	144.4	139.4	0.188	1.52	1.00	144.37	0.360	0.061	1.81
47.450	16.0023	0.0209691	0.4856042	6	22.0	6.0	0.5	0.16623	127.9	122.9	0.132	1.53	1.00	127.88	0.274	0.061	1.38
47.470	15.1152	0.0169389	0.4471049	6	20.8	6.2	0.5	0.16643	120.5	115.7	0.114	1.54	1.00	120.63	0.243	0.061	1.22
47.480	14.5521	0.0151161	0.4463274	6	20.1	6.4	0.5	0.16663	116.2	111.2	0.105	1.55	1.00	116.19	0.226	0.061	1.13
47.510	15.0063	0.013628	0.4563482	6	20.4	6.0	0.5	0.16683	119.7	114.7	0.092	1.53	1.00	119.71	0.240	0.061	1.20
47.530	15.5482	0.0166289	0.481832	6	21.2	5.9	0.5	0.16703	124.0	119.1	0.108	1.53	1.00	124.03	0.257	0.061	1.29
47.550	16.3181	0.0198654	0.4717537	6	22.2	5.8	0.5	0.16723	129.8	124.9	0.123	1.52	1.00	129.83	0.284	0.061	1.42
47.570	16.6384	0.0196926	0.4669737	6	22.5	5.6	0.5	0.16743	132.2	127.2	0.119	1.51	1.00	132.20	0.295	0.061	1.48

CPT Verileri											JBÖLGESİ					
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı
															61	3.50
47.560	16.6384	0.0173295	0.4733662	6	22.3	5.5	0.5	0.16763	132.2	127.2	0.105	1.50	1.00	132.17	0.285	1.48
47.610	16.15	0.0167405	0.4712354	6	21.8	5.7	0.5	0.16763	123.3	123.3	0.105	1.51	1.00	128.30	0.276	1.39
47.630	15.5343	0.0210001	0.471149	6	3	6.3	0.5	0.16803	126.5	118.5	0.137	1.55	1.00	123.47	0.255	1.28
47.660	15.0838	0.0230847	0.4780588	6	21.5	6.8	0.5	0.16823	120.0	115.0	0.155	1.58	1.00	119.98	0.241	1.21
47.670	16.3171	0.025427	0.4802483	6	22.9	6.2	0.5	0.16843	129.4	124.5	0.157	1.55	1.00	129.43	0.282	1.42
47.680	18.2585	0.0377592	0.4833284	6	25.9	6.1	0.5	0.16863	144.3	139.4	0.209	1.54	1.00	144.33	0.360	1.81
47.730	26.7392	0.0330956	0.5264936	6	32.1	3.1	0.5	0.16903	209.7	204.7	0.124	1.31	1.00	209.72	0.938	4.00
47.750	29.7329	0.038311	0.5036588	7	34.8	2.7	0.5	0.16923	232.4	227.5	0.129	1.27	1.00	232.43	1.248	4.00
47.770	31.8118	0.0413367	0.5007218	7	36.5	2.5	0.5	0.16943	248.2	243.3	0.131	1.24	1.00	248.24	1.503	4.00
47.790	35.2015	0.0412189	0.5112033	7	38.6	2.1	0.5	0.16963	274.2	269.2	0.118	1.19	1.00	274.20	1.997	4.00
47.810	35.807	0.0232693	0.4866985	7	37.2	1.8	0.5	0.16983	278.5	273.5	0.065	1.15	1.00	278.50	2.089	4.00
47.830	36.0489	0.0230337	0.4807043	7	37.4	1.8	0.5	0.17003	280.1	275.2	0.064	1.15	1.00	280.14	2.125	4.00
47.850	34.354	0.0246201	0.4304612	7	36.7	2.0	0.5	0.17023	266.4	261.5	0.084	1.18	1.00	266.45	1.839	4.00
47.860	32.5586	0.0315342	0.4195768	7	35.9	2.2	0.5	0.17063	252.5	247.5	0.098	1.21	1.00	252.46	1.577	4.00
47.910	29.1236	0.0486033	0.4344637	6	35.8	3.2	0.5	0.17083	226.1	221.2	0.168	1.32	1.00	226.15	1.156	4.00
47.930	28.5984	0.0688842	0.4701696	6	37.9	4.0	0.5	0.17103	222.3	217.3	0.242	1.39	1.00	222.27	1.101	4.00
47.950	29.1421	0.06504	0.4835174	6	37.8	3.7	0.5	0.17123	226.4	221.4	0.224	1.37	1.00	226.40	1.159	4.00
47.970	29.4661	0.0593545	0.467636	6	37.4	3.5	0.5	0.17143	228.6	223.6	0.203	1.34	1.00	228.62	1.191	4.00
48.010	27.3558	0.066692	0.51956	6	37.1	4.3	0.5	0.17183	213.4	208.4	0.251	1.41	1.00	213.42	0.984	4.00
48.030	29.1893	0.0426387	0.4517687	7	35.2	3.0	0.5	0.17203	226.1	221.1	0.147	1.30	1.00	226.07	1.154	4.00
48.050	29.5372	0.0440648	0.4396757	7	35.6	3.0	0.5	0.17223	228.4	223.4	0.150	1.30	1.00	228.42	1.188	4.00
48.070	28.8181	0.0418947	0.4335135	7	34.9	3.1	0.5	0.17243	222.8	217.8	0.146	1.31	1.00	222.76	1.108	4.00
48.080	27.3363	0.0421675	0.4195508	6	33.9	3.4	0.5	0.17263	211.3	206.3	0.156	1.34	1.00	211.27	0.957	4.00
48.110	25.837	0.0489071	0.435558	6	33.5	4.1	0.5	0.17283	198.3	193.3	0.192	1.40	1.00	198.32	0.805	4.00
48.130	22.6636	0.0554173	0.4543037	6	31.8	5.3	0.5	0.17303	175.7	170.8	0.247	1.49	1.00	175.75	0.585	2.94
48.150	22.6636	0.0569364	0.4575576	6	32.0	5.4	0.5	0.17323	175.7	170.7	0.253	1.49	1.00	175.67	0.584	2.94
48.170	22.0239	0.0531915	0.4412882	6	31.1	5.5	0.5	0.17343	170.6	165.6	0.244	1.50	1.00	170.59	0.542	2.73
48.190	21.2309	0.0436556	0.4207572	6	29.4	5.3	0.5	0.17363	164.3	159.3	0.208	1.49	1.00	164.32	0.493	2.48
48.210	19.6321	0.037939	0.4083464	6	27.4	5.7	0.5	0.17383	152.0	147.0	0.196	1.51	1.00	152.00	0.407	2.05
48.230	16.8313	0.0248194	0.4050061	6	23.5	6.2	0.5	0.17403	130.7	125.7	0.150	1.54	1.00	130.66	0.287	1.45
48.250	16.1768	0.0151181	0.4132704	6	22.0	5.8	0.5	0.17423	125.7	120.7	0.095	1.52	1.00	125.69	0.285	1.33
48.280	17.1553	0.0229593	0.480709	6	23.7	5.9	0.5	0.17463	133.9	128.5	0.135	1.52	1.00	133.46	0.301	1.52
48.310	17.6224	0.0203924	0.4816017	6	23.9	5.5	0.5	0.17483	136.9	131.9	0.117	1.50	1.00	136.92	0.319	1.61
48.330	18.3545	0.0285244	0.4915073	6	25.2	5.5	0.5	0.17503	142.5	137.5	0.146	1.50	1.00	142.45	0.349	1.76
48.350	20.6133	0.0267104	0.4922847	6	27.2	4.4	0.5	0.17523	169.4	164.4	0.131	1.44	1.00	169.44	0.457	2.30
48.370	21.0804	0.0251914	0.4922847	6	27.4	4.4	0.5	0.17543	162.9	157.9	0.120	1.43	1.00	162.87	0.482	2.43
48.390	21.0878	0.0264056	0.4850498	6	27.6	4.5	0.5	0.17563	162.8	157.8	0.126	1.43	1.00	162.79	0.481	2.43
48.410	21.0149	0.0209505	0.4960938	6	26.9	4.3	0.5	0.17583	162.1	157.2	0.101	1.41	1.00	162.15	0.470	2.47
48.430	20.9281	0.0164739	0.4745756	6	26.5	4.2	0.5	0.17603	161.3	156.3	0.078	1.40	1.00	161.31	0.470	2.30
48.450	20.4592	0.02383535	0.4988213	6	27.3	4.8	0.5	0.17623	157.9	152.9	0.140	1.46	1.00	157.87	0.446	2.25

CPT Verileri														JBÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															61	3.50	
48.470	19.8915	0.0283535	0.4988213	6	26.8	5.1	0.5	0.17643	153.5	148.5	0.144	1.47	1.00	153.51	0.060	2.10	
48.480	19.3136	0.0391232	0.4907874	6	27.5	6.0	0.5	0.17663	149.0	144.0	0.204	1.63	1.00	149.01	0.060	1.96	
48.510	17.7489	0.0449338	0.5010961	6	26.7	7.2	0.5	0.17683	137.2	132.3	0.256	1.60	1.00	137.24	0.060	1.82	
48.570	18.1772	0.1023962	0.2291243	6	31.2	10.9	0.5	0.17743	138.2	133.2	0.577	1.77	1.08	149.73	0.060	1.98	
48.590	18.0508	0.1286502	0.0140809	6	32.3	12.8	0.5	0.17763	135.5	130.5	0.739	1.84	1.13	153.75	0.060	2.11	
48.610	17.8855	0.1428387	-0.0172484	6	32.8	13.9	0.5	0.17783	134.0	129.0	0.830	1.87	1.16	155.81	0.060	2.18	
48.630	18.0923	0.1447622	-0.0306974	6	33.1	13.8	0.5	0.17803	135.4	130.4	0.832	1.87	1.16	157.07	0.060	2.22	
48.650	18.5059	0.1470748	-0.0504484	6	33.7	13.5	0.5	0.17823	138.2	133.3	0.827	1.86	1.15	159.35	0.060	2.30	
48.670	18.9296	0.1470004	-0.0551143	6	34.3	13.1	0.5	0.17843	141.3	136.3	0.807	1.85	1.14	161.26	0.060	2.37	
48.690	19.3985	0.1322626	-0.0567268	6	34.1	11.9	0.5	0.17863	144.7	139.7	0.708	1.80	1.11	160.44	0.060	2.34	
48.710	20.894	0.1387976	-0.0598655	6	36.2	11.0	0.5	0.17883	155.8	150.8	0.688	1.77	1.08	168.97	0.060	2.57	
48.730	21.6122	0.1473848	-0.0624858	6	37.6	10.8	0.5	0.17903	161.1	156.1	0.706	1.76	1.08	174.10	0.060	2.88	
48.750	22.4319	0.1363361	-0.0653078	6	37.9	9.8	0.5	0.17923	167.1	162.1	0.628	1.72	1.05	175.71	0.060	2.95	
48.770	22.9609	0.1420031	-0.0662161	6	38.8	9.7	0.5	0.17943	170.9	165.9	0.639	1.72	1.05	179.32	0.060	3.11	
48.790	23.5738	0.1514026	-0.0696286	6	40.1	9.7	0.5	0.17963	175.4	170.4	0.663	1.72	1.05	184.08	0.060	3.34	
48.850	29.2584	0.0938772	0.2456528	6	41.7	4.9	0.5	0.18023	219.8	214.8	0.326	1.46	1.00	219.77	0.060	4.00	
48.870	33.6257	0.0973121	0.1513482	6	45.5	4.0	0.5	0.18043	251.5	246.5	0.294	1.39	1.00	251.46	0.060	4.00	
48.890	34.0845	0.101429	0.0570147	6	46.2	4.0	0.5	0.18063	254.0	249.0	0.303	1.39	1.00	254.03	0.060	4.00	
48.910	34.6301	0.0893634	-0.0033681	6	46.3	3.6	0.5	0.18083	257.5	252.5	0.263	1.36	1.00	257.50	0.060	4.00	
48.930	35.1738	0.077149	-0.0303215	6	44.2	3.2	0.5	0.18103	261.2	256.2	0.224	1.32	1.00	261.20	0.060	4.00	
48.950	34.1894	0.0714324	-0.0351879	6	42.9	3.2	0.5	0.18123	253.8	248.8	0.213	1.32	1.00	253.56	0.060	4.00	
48.970	33.1198	0.0576494	-0.0324523	7	40.4	3.1	0.5	0.18143	245.8	240.7	0.178	1.31	1.00	245.64	0.060	4.00	
48.990	31.5985	0.0486653	-0.0307534	7	38.3	3.1	0.5	0.18163	234.2	229.3	0.158	1.31	1.00	234.23	0.060	4.00	
49.010	26.3764	0.0628452	-0.0287665	6	36.0	4.8	0.5	0.18183	195.4	190.4	0.245	1.45	1.00	195.39	0.060	3.91	
49.030	22.7771	0.0890905	-0.0275659	6	35.2	7.5	0.5	0.18203	168.8	163.8	0.404	1.61	1.00	168.62	0.060	2.88	
49.050	19.6625	0.1126899	-0.0252247	6	33.5	10.7	0.5	0.18223	145.5	140.5	0.594	1.76	1.08	156.89	0.060	2.22	
49.070	16.8655	0.1063333	-0.0221148	6	29.9	13.0	0.5	0.18243	124.7	119.7	0.658	1.84	1.14	142.05	0.060	1.75	
49.110	17.5541	0.0973183	0.5136221	6	30.8	11.2	0.5	0.18283	133.8	128.8	0.560	1.78	1.09	145.78	0.060	1.88	
49.130	18.901	0.0678859	0.4965177	6	30.2	8.3	0.5	0.18303	143.4	138.4	0.363	1.66	1.01	144.38	0.060	1.92	
49.150	20.1019	0.0609107	0.4827247	6	30.8	7.2	0.5	0.18323	152.1	147.1	0.306	1.60	1.00	152.07	0.060	2.05	
49.170	19.8681	0.055901	0.4915073	6	29.9	7.1	0.5	0.18343	148.8	143.9	0.287	1.59	1.00	148.85	0.060	1.95	
49.190	19.8681	0.0517716	0.4943292	6	29.6	6.9	0.5	0.18363	148.8	143.8	0.266	1.58	1.00	148.79	0.060	1.96	
49.210	18.1717	0.0459124	0.4850074	6	27.6	7.3	0.5	0.18383	137.6	132.6	0.255	1.61	1.00	137.61	0.060	1.83	
49.230	18.18	0.0434758	0.4998003	6	27.4	7.2	0.5	0.18403	137.7	132.7	0.241	1.60	1.00	137.70	0.060	1.83	
49.250	18.9434	0.0544129	0.4858922	6	29.1	7.5	0.5	0.18423	143.1	138.2	0.290	1.61	1.00	143.15	0.060	1.79	
49.270	21.746	0.0618655	0.4873607	6	32.5	6.4	0.5	0.18443	163.7	158.7	0.267	1.56	1.00	163.72	0.060	2.47	
49.290	23.2129	0.070366	0.4527776	6	34.6	6.2	0.5	0.18463	174.2	169.2	0.306	1.55	1.00	174.17	0.060	2.89	
49.310	24.3778	0.0730693	0.4279272	6	35.9	5.9	0.5	0.18483	182.5	177.5	0.303	1.53	1.00	182.46	0.060	3.27	
49.330	25.2677	0.0678393	0.3814228	6	36.2	5.4	0.5	0.18503	188.8	183.8	0.272	1.49	1.00	188.56	0.060	3.56	
49.350	24.136	0.0434262	0.3280075	6	32.6	4.7	0.5	0.18523	179.8	174.8	0.183	1.44	1.00	179.75	0.060	3.14	
49.380	20.1555	0.0496284	0.4420388	6	29.9	6.6	0.5	0.18563	151.2	146.2	0.249	1.57	1.00	151.18	0.060	2.03	

CPT Verileri														J BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v_0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{0.25} CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															61	3.50	
49.410	20.9512	0.08753111	0.2747073	6	33.8	8.4	0.5	0.18683	155.7	150.7	0.425	1.66	1.01	157.28	0.442	2.24	
49.430	20.8035	0.1390456	0.1000637	6	36.8	11.3	0.5	0.18603	153.3	148.3	0.688	1.78	1.09	167.57	0.518	2.82	
49.450	21.6103	0.2098518	-0.0274419	6	41.0	14.0	0.5	0.19623	168.2	153.2	1.004	1.87	1.16	184.18	0.661	3.35	
49.470	23.6809	0.2126481	-0.0671587	6	43.8	12.4	0.5	0.18643	173.0	168.0	0.927	1.82	1.12	184.07	0.760	3.85	
49.490	25.0416	0.2335982	-0.0676402	6	46.5	13.2	0.5	0.18663	182.8	177.8	0.962	1.81	1.12	203.97	0.869	4.00	
49.510	27.0604	0.3129114	-0.0687344	6	52.5	13.3	0.5	0.18683	197.5	192.5	1.189	1.85	1.15	226.18	1.156	4.00	
49.530	30.9071	0.3424994	-0.0667475	6	58.9	11.7	0.5	0.18703	225.5	220.5	1.136	1.79	1.10	248.66	1.510	4.00	
49.550	33.8094	0.3564988	-0.0632209	6	63.3	10.5	0.5	0.18723	246.5	241.5	1.078	1.75	1.07	264.41	1.789	4.00	
49.570	36.3272	0.3648353	-0.0637528	6	67.9	8.3	0.5	0.18743	279.5	274.5	0.891	1.65	1.01	281.03	2.144	4.00	
49.590	41.7372	0.3114668	-0.0629754	6	70.5	6.8	0.5	0.18763	304.2	299.2	0.760	1.58	1.00	304.24	2.689	4.00	
49.610	43.4173	0.2884145	-0.0618235	6	70.8	6.0	0.5	0.18783	316.3	311.4	0.676	1.53	1.00	316.35	3.024	4.00	
49.650	39.5429	0.2366878	0.5764823	6	64.0	5.8	0.5	0.18823	292.4	287.4	0.600	1.52	1.00	292.42	2.405	4.00	
49.670	40.539	0.1908048	0.2946049	6	61.1	4.8	0.5	0.18863	297.3	292.3	0.475	1.45	1.00	297.03	2.517	4.00	
49.680	40.539	0.1908048	0.2946049	6	61.1	4.8	0.5	0.18863	297.3	292.3	0.475	1.45	1.00	297.03	2.517	4.00	
49.710	41.1012	0.2165418	0.3697866	6	63.9	5.2	0.5	0.18883	301.8	296.8	0.531	1.48	1.00	301.79	2.636	4.00	
49.730	41.3439	0.2468991	0.4592565	6	66.5	5.6	0.5	0.18903	304.0	299.1	0.601	1.51	1.00	304.05	2.694	4.00	
49.750	41.2701	0.2690513	0.4978674	6	68.1	6.1	0.5	0.18923	303.6	298.6	0.655	1.54	1.00	303.63	2.683	4.00	
49.770	41.1704	0.2335882	0.4091238	6	65.4	5.5	0.5	0.18943	302.1	297.1	0.571	1.50	1.00	302.10	2.644	4.00	
49.790	42.015	0.2212198	0.443707	6	65.2	5.0	0.5	0.18963	306.3	303.3	0.530	1.47	1.00	306.33	2.806	4.00	
49.810	42.7055	0.2232504	0.5975604	6	66.2	4.9	0.5	0.18983	314.3	309.3	0.524	1.46	1.00	314.29	2.967	4.00	
49.850	43.2022	0.0756114	0.2018264	7	50.5	2.2	0.5	0.19023	314.7	309.7	0.177	1.21	1.00	314.70	2.978	4.00	
49.870	44.8896	0.0353907	0.3128611	7	46.2	1.5	0.5	0.19043	327.6	322.6	0.080	1.11	1.00	327.56	3.349	4.00	
49.890	46.1954	0.0244536	0.4607251	7	48.1	1.3	0.5	0.19063	352.4	347.4	0.051	1.07	1.00	352.40	4.150	4.00	
49.910	51.9569	0.0222463	0.5300642	7	51.0	1.2	0.5	0.19083	360.0	375.0	0.043	1.05	1.00	379.97	5.182	4.00	
50.120	19.4361	0.0068348	0.5994897	6	26.7	5.3	0.5	0.19283	144.3	139.3	0.036	1.49	1.00	144.27	0.359	1.83	
50.140	21.8328	0.037815	0.4815726	6	30.7	5.4	0.5	0.19313	160.6	155.6	0.175	1.49	1.00	160.57	0.465	2.36	
50.160	22.3534	0.0909631	0.4527488	6	36.2	8.0	0.5	0.19333	164.0	159.0	0.411	1.64	1.00	164.02	0.490	2.49	
50.180	22.8674	0.1156646	0.4853035	6	38.6	8.3	0.5	0.19353	174.9	169.9	0.489	1.66	1.01	176.17	0.588	2.99	
50.200	24.616	0.1493379	0.1328616	6	42.3	9.5	0.5	0.19373	177.8	172.8	0.621	1.71	1.04	185.58	0.674	3.43	
50.220	28.0066	0.1943389	0.1806203	6	48.9	9.2	0.5	0.19393	202.3	197.3	0.707	1.70	1.04	209.66	0.937	4.00	
50.240	30.3708	0.2193443	0.0505358	6	53.0	8.9	0.5	0.19413	218.3	213.3	0.738	1.68	1.03	224.19	1.128	4.00	
50.260	32.8068	0.2289548	-0.0026219	6	56.3	8.2	0.5	0.19433	236.3	230.3	0.713	1.65	1.00	236.93	1.301	4.00	
50.280	34.4214	0.2629441	-0.0012094	6	60.1	8.4	0.5	0.19453	246.8	241.8	0.780	1.66	1.01	249.16	1.519	4.00	
50.300	35.6066	0.2610096	0.0075156	6	61.4	7.9	0.5	0.19473	265.2	250.2	0.747	1.64	1.00	255.23	1.626	4.00	
50.320	34.8045	0.2325197	0.0131019	6	58.8	7.5	0.5	0.19493	249.4	244.4	0.681	1.62	1.00	249.38	1.522	4.00	
50.340	33.0697	0.2021078	0.0193792	6	55.7	7.2	0.5	0.19513	241.5	236.5	0.612	1.60	1.00	241.46	1.369	4.00	
50.360	32.9121	0.1761227	0.0265781	6	53.1	6.8	0.5	0.19533	235.7	230.7	0.546	1.58	1.00	235.68	1.297	4.00	
50.380	32.373	0.1639146	0.4819472	6	52.1	6.5	0.5	0.19553	235.0	230.0	0.510	1.56	1.00	234.96	1.286	4.00	
50.400	32.777	0.17171582	0.4536334	6	53.3	6.3	0.5	0.19573	236.2	231.2	0.548	1.58	1.00	236.17	1.305	4.00	
50.420	31.0659	0.1781058	0.4564922	6	51.8	7.3	0.5	0.19593	225.2	220.2	0.578	1.61	1.00	225.20	1.142	4.00	
50.440	30.2877	0.1672059	0.3904068	6	50.2	7.4	0.5	0.19613	219.1	214.1	0.558	1.61	1.00	219.06	1.058	4.00	

CPT Verileri													JBÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{cs} CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															61	3.50	
50.460	29.9747	0.1568029	0.3940927	6	48.1	7.2	0.5	0.19633	216.7	211.7	0.529	1.60	1.00	216.74	1.027	0.060	4.00
50.480	30.4603	0.1534982	0.4132704	6	48.4	6.9	0.5	0.19653	220.2	215.2	0.509	1.58	1.00	220.23	1.073	0.060	4.00
50.500	30.1557	0.1580802	0.361554	6	46.4	7.2	0.5	0.19673	217.5	212.6	0.530	1.60	1.00	217.58	1.038	0.060	4.00
50.520	29.5003	0.1979474	0.0721611	6	51.0	8.8	0.5	0.19693	210.7	205.7	0.686	1.68	1.02	215.54	1.011	0.060	4.00
50.540	29.1199	0.2045134	0.0484913	6	50.9	9.2	0.5	0.19713	207.7	202.7	0.718	1.70	1.04	215.03	1.005	0.060	4.00
50.560	28.9907	0.1906984	0.0356198	6	50.0	8.8	0.5	0.19733	206.6	201.6	0.673	1.68	1.02	211.66	0.962	0.060	4.00
50.580	28.6002	0.1832246	0.0402846	6	48.2	8.9	0.5	0.19753	203.8	196.8	0.663	1.68	1.02	206.86	0.927	0.060	4.00
50.600	28.2716	0.1433671	0.0501038	6	46.1	7.6	0.5	0.19773	201.4	196.4	0.519	1.62	1.00	201.41	0.840	0.060	4.00
50.620	28.1248	0.1359841	0.0542792	6	45.5	7.4	0.5	0.19793	200.3	195.3	0.495	1.61	1.00	200.30	0.827	0.060	4.00
50.640	26.1965	0.0876274	0.2997305	6	38.9	6.3	0.5	0.19813	188.2	183.2	0.340	1.55	1.00	188.23	0.700	0.060	3.57
50.660	24.5625	0.0895556	0.2664143	6	38.4	7.1	0.5	0.19833	176.3	171.3	0.371	1.59	1.00	176.30	0.590	0.060	3.00
50.680	24.7185	0.0862981	0.2775681	6	38.3	6.9	0.5	0.19853	177.4	172.4	0.365	1.58	1.00	177.40	0.599	0.060	3.05
50.700	25.6259	0.0919303	0.3109894	6	39.7	6.7	0.5	0.19873	184.0	179.0	0.364	1.57	1.00	183.99	0.659	0.060	3.36
50.720	26.3007	0.1166629	0.3045393	6	42.5	7.4	0.5	0.19893	188.5	183.6	0.450	1.61	1.00	188.63	0.704	0.060	3.59
50.740	25.5121	0.1273024	0.1012443	6	42.3	8.3	0.5	0.19913	182.2	177.2	0.509	1.65	1.01	183.46	0.654	0.060	3.33
50.760	25.6896	0.1463122	0.013505	6	43.6	9.1	0.5	0.19933	182.1	177.0	0.585	1.69	1.03	187.73	0.695	0.060	3.54
50.780	25.9444	0.1731963	-0.0006927	6	45.5	10.0	0.5	0.19953	183.7	178.7	0.686	1.73	1.06	194.14	0.760	0.060	3.88
50.800	26.5035	0.178609	-0.0055575	6	46.6	9.8	0.5	0.19973	188.2	183.2	0.690	1.72	1.05	198.04	0.802	0.060	4.00
50.820	27.1048	0.1708278	-0.0166725	6	46.7	9.3	0.5	0.19993	191.5	186.6	0.648	1.70	1.04	198.64	0.809	0.060	4.00
50.840	27.7669	0.2070741	-0.023209	6	48.6	10.1	0.5	0.20013	196.3	191.2	0.765	1.74	1.06	206.36	0.921	0.060	4.00
50.860	28.0879	0.1747277	-0.0302351	6	48.1	8.9	0.5	0.20033	198.2	193.2	0.639	1.68	1.03	203.48	0.884	0.060	4.00
50.880	28.5254	0.1619677	-0.0050606	6	47.8	8.3	0.5	0.20053	201.2	196.2	0.583	1.65	1.01	202.48	0.852	0.060	4.00
50.900	24.6437	0.1307187	0.7230504	6	42.3	8.7	0.5	0.20073	179.0	174.0	0.530	1.67	1.02	182.50	0.645	0.060	3.29
50.920	27.6402	0.1118925	0.4560602	6	43.7	6.7	0.5	0.20093	196.2	193.2	0.409	1.57	1.00	196.21	0.804	0.060	4.00
50.940	28.2614	0.0862943	0.4734238	6	42.0	5.5	0.5	0.20113	202.5	197.5	0.308	1.50	1.00	202.61	0.864	0.060	4.00
50.960	28.0814	0.0810924	0.4779447	6	41.4	5.4	0.5	0.20133	201.3	196.3	0.291	1.49	1.00	201.28	0.838	0.060	4.00
50.980	26.9441	0.056629	0.5018448	6	38.1	4.9	0.5	0.20153	193.3	188.3	0.219	1.46	1.00	193.33	0.752	0.060	3.84
51.000	25.7995	0.0657459	0.4980726	6	37.8	5.6	0.5	0.20173	185.2	180.1	0.257	1.50	1.00	185.15	0.670	0.060	3.42
51.020	24.6049	0.0571844	0.4983974	6	35.9	5.6	0.5	0.20193	176.5	171.6	0.235	1.51	1.00	176.59	0.592	0.060	3.02
51.040	23.5258	0.0904112	0.5097056	6	38.0	7.7	0.5	0.20213	169.1	164.0	0.388	1.62	1.00	169.06	0.529	0.060	2.70
51.060	23.2396	0.1242705	0.4437358	6	40.1	9.4	0.5	0.20233	166.5	161.5	0.541	1.71	1.04	173.48	0.566	0.060	2.88
51.080	23.499	0.1459092	0.3188505	6	41.6	10.3	0.5	0.20253	167.4	162.3	0.632	1.74	1.07	178.52	0.609	0.060	3.11
51.100	23.8286	0.165012	0.0915115	6	42.8	11.1	0.5	0.20273	168.0	163.0	0.711	1.77	1.09	182.60	0.646	0.060	3.30
51.120	25.0063	0.204656	0.0270864	6	46.3	11.9	0.5	0.20293	175.8	170.7	0.841	1.80	1.11	194.74	0.767	0.060	3.91
51.140	27.7546	0.2219918	0.0206887	6	50.6	10.7	0.5	0.20313	194.9	189.9	0.820	1.76	1.08	210.11	0.943	0.060	4.00
51.160	29.9018	0.2445419	0.0171332	6	54.4	10.3	0.5	0.20333	209.8	204.8	0.637	1.74	1.07	223.50	1.118	0.060	4.00
51.180	31.8007	0.1778998	0.2647154	6	53.0	7.4	0.5	0.20353	224.8	219.7	0.567	1.61	1.00	224.76	1.136	0.060	4.00
51.200	36.7883	0.1571811	0.1409531	6	56.3	5.4	0.5	0.20373	258.7	253.7	0.434	1.49	1.00	258.73	1.691	0.060	4.00
51.220	38.5026	0.1579872	0.0591168	6	57.9	5.0	0.5	0.20393	270.0	265.0	0.417	1.47	1.00	270.03	1.911	0.060	4.00
51.240	39.3904	0.1678641	0.0432506	6	58.5	5.0	0.5	0.20413	275.9	270.9	0.434	1.47	1.00	275.93	2.034	0.060	4.00
51.260	40.7781	0.1751985	0.0447191	6	61.5	4.9	0.5	0.20433	285.6	280.6	0.437	1.46	1.00	285.59	2.246	0.060	4.00

CPT Verileri													JBÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Koni Uç	Sürtünme	Boşluk								%					61	3.50
Direnci	Katsayısı	Suyu Basıncı															
51.280	41.2202	0.1731529	0.0437688	6	61.7	4.7	0.5	0.20453	288.5	283.5	0.427	1.45	1.00	288.55	2.314	0.060	4.00
51.300	41.3033	0.1553171	0.0229499	6	60.2	4.4	0.5	0.20473	288.8	283.8	0.384	1.42	1.00	288.83	2.321	0.060	4.00
51.320	41.2784	0.1495873	0.0135626	6	59.6	4.3	0.5	0.20493	288.4	283.4	0.369	1.41	1.00	288.44	2.312	0.060	4.00
51.340	41.8203	0.1679137	-0.0000576	6	61.8	4.5	0.5	0.20513	292.0	287.0	0.409	1.43	1.00	291.99	2.395	0.060	4.00
51.360	44.7696	0.1648756	0.0010366	6	64.0	4.0	0.5	0.20533	312.4	307.4	0.374	1.39	1.00	312.44	2.917	0.060	4.00
51.380	49.5505	0.1351271	0.0080051	7	64.3	2.8	0.5	0.20553	345.7	340.7	0.277	1.28	1.00	345.69	3.922	0.060	4.00
51.400	51.3183	0.1121243	0.0171332	7	62.5	2.3	0.5	0.20573	357.9	352.9	0.222	1.22	1.00	357.91	4.344	0.060	4.00
51.420	52.4473	0.1028922	0.0238713	7	61.9	2.1	0.5	0.20593	365.6	360.6	0.199	1.19	1.00	365.65	4.626	0.060	4.00
51.460	51.7955	0.1005572	0.3396408	7	61.4	2.1	0.5	0.20633	363.0	357.9	0.196	1.19	1.00	362.95	4.527	0.060	4.00
51.480	51.1817	0.115367	0.1440918	7	63.0	2.3	0.5	0.20653	357.1	352.1	0.228	1.23	1.00	357.14	4.317	0.060	4.00
51.500	49.2662	0.1184609	0.1178592	7	62.2	2.6	0.5	0.20673	343.5	338.4	0.243	1.25	1.00	343.47	3.848	0.060	4.00
51.520	46.7064	0.1116903	0.1324873	7	59.7	2.8	0.5	0.20693	325.6	320.6	0.242	1.27	1.00	325.61	3.290	0.060	4.00
51.540	45.402	0.0833466	0.1522696	7	55.8	2.5	0.5	0.20713	316.5	311.5	0.197	1.25	1.00	316.52	3.029	0.060	4.00
51.560	44.381	0.0812102	0.1705835	7	54.2	2.5	0.5	0.20733	309.4	304.4	0.185	1.24	1.00	309.41	2.835	0.060	4.00
51.580	44.0228	0.0799793	0.1928422	7	53.8	2.5	0.5	0.20753	306.9	301.9	0.184	1.25	1.00	306.93	2.769	0.060	4.00
51.600	43.6831	0.0766096	0.2215512	7	53.2	2.5	0.5	0.20773	304.6	299.6	0.177	1.24	1.00	304.62	2.709	0.060	4.00
51.620	43.1643	0.0784927	0.2562783	7	53.3	2.6	0.5	0.20793	301.1	296.1	0.186	1.26	1.00	301.12	2.619	0.060	4.00
51.640	43.2096	0.0764112	0.2942593	7	53.0	2.5	0.5	0.20813	301.6	296.5	0.179	1.25	1.00	301.55	2.630	0.060	4.00
51.660	43.3323	0.0789161	0.3602562	7	53.4	2.6	0.5	0.20833	302.7	297.7	0.184	1.25	1.00	302.71	2.660	0.060	4.00
51.680	44.0108	0.061421	0.4095558	7	54.3	2.5	0.5	0.20853	307.6	302.6	0.186	1.25	1.00	307.61	2.787	0.060	4.00
51.720	47.2916	0.0576122	0.5062217	7	53.1	1.9	0.5	0.20893	330.7	325.7	0.122	1.16	1.00	330.68	3.443	0.060	4.00
51.740	49.5745	0.0622436	0.5124415	7	55.1	1.8	0.5	0.20913	346.4	341.3	0.126	1.14	1.00	346.35	3.944	0.060	4.00
51.760	50.4792	0.0646866	0.4896659	7	55.9	1.7	0.5	0.20933	352.3	347.3	0.129	1.14	1.00	352.26	4.146	0.060	4.00
51.780	50.7146	0.0696282	0.4593063	7	56.8	1.8	0.5	0.20953	353.5	348.5	0.136	1.15	1.00	353.52	4.189	0.060	4.00
51.800	49.9521	0.0759958	0.4775127	7	57.3	1.9	0.5	0.20973	348.2	343.2	0.153	1.17	1.00	348.22	4.007	0.060	4.00
51.820	48.6698	0.0800011	0.4933502	7	57.2	2.1	0.5	0.20993	339.3	334.3	0.165	1.19	1.00	339.31	3.713	0.060	4.00
51.840	48.4769	0.0913413	0.5043788	7	58.8	2.3	0.5	0.21013	337.9	332.9	0.189	1.22	1.00	337.90	3.668	0.060	4.00
51.860	47.6249	0.0936105	0.503227	7	58.6	2.4	0.5	0.21033	331.9	326.8	0.197	1.23	1.00	331.85	3.479	0.060	4.00
51.880	47.1761	0.096103	0.531504	7	58.7	2.5	0.5	0.21053	326.8	323.8	0.205	1.24	1.00	328.81	3.386	0.060	4.00
51.900	47.0941	0.1028302	0.5295459	7	59.6	2.6	0.5	0.21073	326.1	323.0	0.219	1.25	1.00	328.06	3.364	0.060	4.00
51.920	46.9593	0.1003874	0.5125279	7	59.2	2.6	0.5	0.21093	326.9	321.8	0.215	1.25	1.00	326.86	3.328	0.060	4.00
51.960	42.1563	0.0929533	0.5071719	7	55.0	3.0	0.5	0.21133	293.5	288.5	0.222	1.30	1.00	293.48	2.431	0.060	4.00
51.980	41.9692	0.1056937	0.4822064	6	56.4	3.3	0.5	0.21153	292.0	287.0	0.253	1.33	1.00	292.02	2.396	0.060	4.00
52.000	41.0495	0.1237329	0.4654187	6	57.7	3.8	0.5	0.21173	285.3	280.3	0.301	1.38	1.00	285.31	2.240	0.060	4.00
52.020	40.2925	0.1265932	0.4792117	6	57.5	4.0	0.5	0.21193	280.1	275.0	0.316	1.39	1.00	280.07	2.123	0.060	4.00
52.040	39.593	0.1288215	0.4941276	6	56.4	4.4	0.5	0.21213	266.4	263.4	0.336	1.42	1.00	266.37	1.878	0.060	4.00
52.060	37.8444	0.1279844	0.4890685	6	55.7	4.6	0.5	0.21233	263.1	260.0	0.340	1.43	1.00	263.07	1.773	0.060	4.00
52.080	39.3795	0.134662	0.4864393	6	57.7	4.4	0.5	0.21253	273.5	268.4	0.344	1.42	1.00	273.46	1.982	0.060	4.00
52.100	42.8677	0.1439375	0.4767065	6	61.4	3.5	0.5	0.21273	296.8	290.8	0.339	1.39	1.00	296.81	2.487	0.060	4.00
52.120	44.3561	0.1314317	0.4855267	6	61.4	3.5	0.5	0.21293	307.3	302.3	0.298	1.35	1.00	307.31	2.779	0.060	4.00
52.140	44.7918	0.131996	0.4825968	6	61.8	3.4	0.5	0.21313	310.0	305.0	0.296	1.34	1.00	309.98	2.850	0.060	4.00

CPT Verileri													JBÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı
															61	3.50
52.160	44.2222	0.138631	0.4048622	6	62.1	3.7	0.5	0.21333	305.5	300.5	0.316	1.36	1.00	305.54	2.733	4.00
52.180	42.7886	0.1216108	0.3945822	6	59.1	3.6	0.5	0.21353	295.5	290.5	0.286	1.35	1.00	295.52	2.480	4.00
52.220	40.1097	0.0870445	0.4845388	6	53.0	3.2	0.5	0.21393	277.5	272.5	0.218	1.32	1.00	277.54	2.068	4.00
52.240	39.038	0.0774962	0.4756268	6	51.0	3.2	0.5	0.21413	270.0	265.0	0.200	1.32	1.00	270.03	1.911	4.00
52.260	38.9669	0.0799329	0.4892612	6	51.3	3.3	0.5	0.21433	269.5	264.5	0.206	1.33	1.00	269.51	1.901	4.00
52.280	36.5986	0.076684	0.488455	6	50.7	3.3	0.5	0.21453	266.9	261.8	0.200	1.32	1.00	266.86	1.847	4.00
52.300	37.4751	0.0840694	0.5104258	6	50.8	3.6	0.5	0.21473	259.2	254.2	0.226	1.36	1.00	259.22	1.700	4.00
52.320	37.3773	0.0882288	0.5140252	6	51.2	3.7	0.5	0.21493	258.5	253.4	0.237	1.37	1.00	258.46	1.686	4.00
52.340	36.5363	0.0924325	0.4967768	6	51.0	4.0	0.5	0.21513	252.5	247.5	0.295	1.39	1.00	252.49	1.577	4.00
52.360	34.9218	0.0926991	0.5009233	6	49.8	4.3	0.5	0.21533	241.4	236.4	0.267	1.42	1.00	241.40	1.388	4.00
52.380	33.2952	0.0925131	0.5086405	6	48.4	4.7	0.5	0.21553	230.3	225.2	0.280	1.45	1.00	230.26	1.215	4.00
52.400	32.8641	0.0916079	0.5120958	6	47.9	4.8	0.5	0.21573	227.2	222.2	0.281	1.45	1.00	227.24	1.171	4.00
52.420	33.0552	0.090157	0.490701	6	47.9	4.7	0.5	0.21593	228.3	223.3	0.275	1.45	1.00	228.29	1.186	4.00
52.440	32.2124	0.0860525	0.5041772	6	46.8	4.8	0.5	0.21613	222.5	217.5	0.269	1.45	1.00	222.54	1.105	4.00
52.460	29.3304	0.0717573	0.4846556	6	42.7	5.1	0.5	0.21633	202.7	197.7	0.247	1.47	1.00	202.71	0.855	4.00
52.480	26.0279	0.0706932	0.4802195	6	41.5	5.5	0.5	0.21653	193.7	188.7	0.255	1.50	1.00	193.74	0.756	3.88
52.500	24.6428	0.0789045	0.4518561	6	39.0	7.1	0.5	0.21673	170.5	165.4	0.324	1.60	1.00	170.46	0.541	2.77
52.520	20.7823	0.0757354	0.4352412	6	34.7	9.1	0.5	0.21693	144.1	139.0	0.370	1.69	1.03	148.54	0.385	1.97
52.540	20.0918	0.0890658	0.4984998	6	34.9	10.3	0.5	0.21713	139.5	134.5	0.449	1.74	1.07	148.93	0.367	1.99
52.560	18.0212	0.1542857	0.458623	6	36.0	16.3	0.5	0.21733	125.4	120.3	0.870	1.94	1.23	154.36	0.422	2.15
52.580	20.9226	0.2640415	0.3598823	6	44.2	18.4	0.5	0.21753	144.3	139.3	1.286	2.00	1.30	187.65	0.695	3.56
52.600	30.8969	0.2133762	0.3419732	6	55.5	9.3	0.5	0.21773	211.7	206.7	0.706	1.70	1.04	219.93	1.089	4.00
52.620	35.9566	0.1946985	0.2794586	6	59.8	6.9	0.5	0.21793	245.5	240.4	0.549	1.58	1.00	245.46	1.455	4.00
52.640	36.3368	0.1766595	0.2669877	6	58.1	6.4	0.5	0.21813	246.0	242.9	0.498	1.55	1.00	247.99	1.498	4.00
52.660	33.5285	0.1432555	0.3150486	6	53.5	6.2	0.5	0.21833	229.7	224.7	0.432	1.55	1.00	229.72	1.207	4.00
52.680	35.6344	0.1121181	0.380962	6	52.6	4.8	0.5	0.21853	243.6	238.6	0.318	1.45	1.00	243.63	1.425	4.00
52.700	33.9719	0.1050909	0.5140252	6	50.6	5.0	0.5	0.21893	233.1	228.0	0.311	1.47	1.00	233.07	1.257	4.00
52.740	32.9988	0.0928685	0.4924863	6	48.4	4.9	0.5	0.21913	225.8	220.8	0.284	1.46	1.00	225.85	1.151	4.00
52.760	31.8884	0.0944724	0.4989454	6	47.6	5.3	0.5	0.21933	216.5	213.4	0.299	1.48	1.00	218.49	1.050	4.00
52.780	30.4889	0.0965804	0.4528048	6	46.5	5.7	0.5	0.21953	208.8	203.8	0.320	1.52	1.00	208.83	0.927	4.00
52.800	25.5798	0.0913785	0.4634318	6	41.3	7.4	0.5	0.21973	175.7	170.6	0.361	1.61	1.00	175.69	0.584	3.00
52.820	26.1154	0.0958922	0.4878375	6	41.2	7.8	0.5	0.21993	172.5	167.5	0.366	1.63	1.00	172.51	0.557	2.88
52.840	22.2362	0.0934059	0.4929182	6	38.9	9.0	0.5	0.22013	157.6	152.5	0.429	1.69	1.03	162.34	0.478	2.45
52.860	23.764	0.0873049	0.4798174	6	39.1	8.1	0.5	0.22033	153.1	148.1	0.425	1.70	1.04	158.73	0.452	2.32
52.880	24.6188	0.0846079	0.4817457	6	39.1	7.5	0.5	0.22053	163.3	158.2	0.372	1.64	1.00	163.18	0.484	2.48
52.900	24.2523	0.0831384	0.4840781	6	39.3	7.6	0.5	0.22073	166.9	163.9	0.347	1.62	1.00	166.95	0.528	2.71
52.920	26.2296	0.0794121	0.517711	6	41.0	6.6	0.5	0.22093	168.4	161.4	0.347	1.62	1.00	166.42	0.509	2.81
52.940	24.4738	0.0654493	0.4938685	6	37.9	6.7	0.5	0.22113	179.9	174.8	0.305	1.57	1.00	179.87	0.621	3.19
52.960	22.3036	0.0562172	0.5040044	6	34.9	7.2	0.5	0.22153	163.8	162.8	0.276	1.60	1.00	167.83	0.520	2.13
53.000	20.8358	0.0522924	0.495813	6	33.0	7.7	0.5	0.22173	143.3	138.2	0.254	1.63	1.00	143.26	0.353	4.00

CPT Verileri										J BÖLGESİ									
Derinlik m	qc	fs	Koni Uç Direnci	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																		61	3.50
53.020	20.0152	0.0548221		0.48957	6	32.4	8.4		0.5	0.22193	137.7	132.7	0.277	1.66	1.01	139.01	0.330	0.060	4.00
53.040	21.9436	0.0639974		0.4833742	6	35.2	7.9		0.5	0.22213	150.3	145.3	0.295	1.63	1.00	150.34	0.398	0.060	4.00
53.060	21.8411	0.0630002		0.4816177	6	35.0	7.9		0.5	0.22233	149.5	144.5	0.292	1.63	1.00	149.57	0.391	0.060	3.00
53.080	18.9868	0.0600551		0.4882538	6	31.7	9.5		0.5	0.22253	130.4	125.4	0.321	1.71	1.04	136.03	0.314	0.060	2.89
53.100	15.222	0.0743713		0.4789646	6	29.6	13.1		0.5	0.22273	111.9	106.9	0.466	1.84	1.14	127.55	0.273	0.060	2.45
53.120	16.3042	0.0747		0.4855627	6	29.7	13.0		0.5	0.22293	112.3	107.3	0.466	1.84	1.14	127.90	0.275	0.060	2.45
53.140	15.7291	0.0744023		0.4711202	6	29.0	13.5		0.5	0.22313	108.5	103.4	0.482	1.86	1.16	125.37	0.263	0.060	2.45

CPT Verileri														K BÖLGESİ			
Derinlik m	qc Koni Üç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																61	3.02
44.110	20.0871	0.0482441	0.3969702	6	25.8	4.5	0.5	0.13283	177.7	172.8	0.242	1.43	1.00	177.73	0.602	0.070	2.96
44.130	18.6889	0.0516714	0.3793239	6	25.1	5.3	0.5	0.13303	165.3	160.3	0.279	1.48	1.00	165.28	0.500	0.070	2.46
44.150	16.8767	0.0534976	0.3708265	6	23.8	6.4	0.5	0.13323	149.4	144.4	0.321	1.55	1.00	149.43	0.390	0.070	1.92
44.170	15.1589	0.0462929	0.4325743	6	21.8	6.9	0.5	0.13343	135.0	130.0	0.308	1.59	1.00	134.98	0.309	0.070	1.52
44.190	15.1352	0.0445917	0.4322627	6	21.6	6.8	0.5	0.13363	134.7	129.7	0.297	1.58	1.00	134.57	0.307	0.070	1.52
44.210	15.2903	0.0398574	0.4268527	6	21.3	6.4	0.5	0.13383	135.9	130.9	0.283	1.55	1.00	135.86	0.313	0.070	1.55
44.230	15.9065	0.0371118	0.4291187	6	21.6	5.8	0.5	0.13403	141.1	136.1	0.235	1.52	1.00	141.10	0.341	0.070	1.69
44.250	16.4674	0.0368241	0.4383525	6	22.0	5.5	0.5	0.13423	145.9	140.9	0.226	1.50	1.00	145.92	0.369	0.070	1.83
44.270	19.0943	0.0351355	0.4373895	6	23.8	4.2	0.5	0.13443	166.2	163.2	0.186	1.41	1.00	166.20	0.523	0.070	2.89
44.290	25.0302	0.0272921	0.4380976	6	34.1	4.6	0.5	0.13463	219.5	214.5	0.373	1.44	1.00	219.50	1.063	0.070	4.00
44.310	35.3344	0.2568622	0.4129736	6	55.1	5.7	0.5	0.13483	307.9	302.9	0.730	1.51	1.00	307.86	2.794	0.070	4.00
44.330	46.601	0.4248286	0.3918717	6	76.3	5.6	0.5	0.13503	404.4	399.4	0.915	1.51	1.00	404.41	6.231	0.070	4.00
44.350	42.1496	0.5305917	0.3989529	6	76.5	8.1	0.5	0.13523	365.9	360.9	1.294	1.64	1.00	365.64	4.626	0.070	4.00
44.370	51.2981	0.5820942	0.346269	6	89.6	6.4	0.5	0.13543	443.8	438.8	1.140	1.56	1.00	443.76	8.207	0.070	4.00
44.390	47.9043	0.54110485	0.0864752	6	83.5	6.8	0.5	0.13563	412.1	407.1	1.141	1.58	1.00	412.08	6.988	0.070	4.00
44.410	41.192	0.478864	0.4321777	6	74.1	7.4	0.5	0.13583	363.4	358.4	1.146	1.61	1.00	363.39	4.543	0.070	4.00
44.430	29.6087	0.4342848	0.4522316	6	57.0	11.6	0.5	0.13603	257.7	252.8	1.473	1.79	1.10	253.85	2.207	0.070	4.00
44.450	30.2116	0.5449383	0.1202949	6	60.5	13.5	0.5	0.13623	259.9	254.9	1.798	1.86	1.15	299.40	2.576	0.070	4.00
44.470	21.9311	0.5773161	0.066308	5	48.6	21.9	0.5	0.13643	188.3	183.4	2.896	2.09	1.43	269.05	1.891	0.070	4.00
44.490	20.3114	0.5456453	0.0632207	5	45.3	23.2	0.5	0.13663	174.3	169.3	2.757	2.11	1.48	258.21	1.681	0.070	4.00
44.510	17.5761	0.5071263	0.0536452	5	40.0	26.4	0.5	0.13683	150.7	145.7	2.975	2.18	1.62	244.40	1.438	0.070	4.00
44.530	16.4297	0.4733291	0.0557996	5	37.5	27.5	0.5	0.13703	140.8	135.9	2.976	2.20	1.67	235.01	1.287	0.070	4.00
44.550	11.4734	0.0216705	0.4644112	6	16.5	7.8	0.5	0.13723	101.9	96.9	0.191	1.63	1.00	101.91	0.178	0.070	0.89
44.570	11.5979	0.0263336	0.4605307	6	17.0	8.3	0.5	0.13743	102.9	97.9	0.230	1.65	1.01	103.47	0.183	0.070	0.92
44.590	12.4919	0.026286	0.4436209	6	17.8	7.4	0.5	0.13763	110.3	105.3	0.213	1.61	1.00	110.26	0.205	0.070	1.03
44.610	13.0475	0.0298696	0.4478979	6	18.7	7.4	0.5	0.13783	115.0	110.0	0.231	1.61	1.00	114.95	0.221	0.070	1.11
44.630	12.8345	0.0398324	0.4452071	6	19.4	8.6	0.5	0.13803	113.0	108.1	0.314	1.67	1.02	114.85	0.221	0.070	1.11
44.740	26.7138	0.385748	0.4457383	6	51.8	12.5	0.5	0.13913	230.3	225.3	1.452	1.82	1.12	258.76	1.691	0.069	4.00
44.760	36.9759	0.5468863	0.4466984	6	73.2	9.7	0.5	0.13933	330.6	325.6	1.423	1.72	1.05	346.70	3.956	0.069	4.00
44.780	44.9888	0.5988258	0.4472457	6	83.4	8.3	0.5	0.13953	384.5	379.5	1.336	1.65	1.01	387.09	5.474	0.069	4.00
44.800	47.9057	0.6424176	0.447383	6	88.9	8.0	0.5	0.13973	405.1	404.1	1.345	1.64	1.00	406.00	6.396	0.069	4.00
44.820	54.692	0.6669646	0.4464654	6	98.4	6.7	0.5	0.13993	466.1	461.2	1.223	1.58	1.00	466.14	9.500	0.069	4.00
44.840	59.7563	0.67192326	0.4467939	6	104.6	5.9	0.5	0.14013	508.6	503.6	1.127	1.52	1.00	508.59	12.314	0.069	4.00
44.860	62.2901	0.677234	0.448236	6	107.8	5.5	0.5	0.14033	529.6	524.6	1.090	1.50	1.00	529.51	13.895	0.069	4.00
44.880	63.4856	0.6696818	0.4488345	6	108.8	5.3	0.5	0.14053	539.3	534.4	1.057	1.49	1.00	539.32	14.569	0.069	4.00
45.230	38.9997	0.0573889	0.44405618	7	39.1	1.5	0.5	0.14423	326.6	323.7	0.148	1.11	1.00	326.63	3.381	0.069	4.00
45.250	27.0283	0.0476814	0.3920134	7	31.5	2.9	0.5	0.14443	228.3	223.4	0.178	1.29	1.00	228.33	1.187	0.069	4.00
45.270	23.3141	0.0293943	0.3599499	7	26.9	3.1	0.5	0.14463	191.0	192.0	0.127	1.31	1.00	196.99	0.791	0.069	3.97
45.290	22.6261	0.0273867	0.3822697	6	26.2	3.2	0.5	0.14483	179.3	186.3	0.122	1.32	1.00	191.32	0.731	0.069	3.67
45.310	20.6191	0.0473623	0.3444846	6	27.1	4.7	0.5	0.14483	174.2	169.2	0.233	1.45	1.00	174.20	0.572	0.069	2.87
45.330	19.6707	0.0602082	0.3176895	6	27.6	5.8	0.5	0.14503	166.0	161.0	0.311	1.52	1.00	165.93	0.505	0.069	2.54
45.350	19.5507	0.0606397	0.3423602	6	27.5	5.9	0.5	0.14523	165.1	160.1	0.314	1.53	1.00	165.07	0.498	0.069	2.50

CPT Verileri														K BÖLGESİ							
Derinlik m	qc	Koni Uç Direnci	fs	Sürtünme Katsayısı	u	Boşluk Suyu Basıncı	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı	
								[%]	[%]					[%]						61	3.02
48.250	15.5217	0.0351168	0.4045046	6	22.3	6.9	0.5	0.15423	128.2	123.3	0.229	1.58	1.00	128.24	0.276	0.067	1.39				
48.270	14.1658	0.0366553	0.4027201	6	21.2	8.1	0.5	0.15443	117.2	112.3	0.263	1.64	1.00	117.09	0.229	0.067	1.15				
48.290	13.0116	0.036993	0.4203097	6	20.1	9.2	0.5	0.15433	108.0	103.1	0.289	1.69	1.03	111.68	0.210	0.067	1.05				
48.330	11.0037	0.036444	0.4466499	6	18.2	11.8	0.5	0.15503	92.0	87.0	0.355	1.80	1.11	101.70	0.178	0.067	0.89				
48.350	11.2884	0.0325839	0.4446105	6	18.1	10.6	0.5	0.15523	94.2	89.2	0.293	1.76	1.08	101.25	0.177	0.066	0.89				
48.370	11.3516	0.0274868	0.4394289	6	17.7	9.9	0.5	0.15543	94.6	89.6	0.246	1.73	1.05	99.76	0.172	0.066	0.87				
48.390	10.9555	0.0213452	0.4354351	6	16.7	9.5	0.5	0.15563	91.3	86.3	0.198	1.71	1.04	95.37	0.161	0.066	0.81				
48.410	10.4524	0.0199506	0.4375878	6	16.1	9.9	0.5	0.15583	87.2	82.3	0.194	1.73	1.06	92.16	0.153	0.065	0.77				
48.430	10.4682	0.0138591	0.4319228	6	15.6	9.0	0.5	0.15603	87.3	82.3	0.193	1.69	1.03	89.85	0.147	0.065	0.74				
48.450	10.6224	0.013021	0.4464251	6	15.7	8.7	0.5	0.15623	88.6	83.6	0.125	1.67	1.02	90.38	0.149	0.064	0.75				
48.470	12.4042	0.0153038	0.454271	6	17.6	7.4	0.5	0.15643	102.8	97.8	0.125	1.61	1.00	102.81	0.181	0.064	0.91				
48.490	14.1825	0.017574	0.4527981	6	19.5	6.3	0.5	0.15663	116.9	112.0	0.125	1.55	1.00	116.94	0.229	0.063	1.15				
48.510	17.2597	0.0264173	0.4296285	6	23.1	5.3	0.5	0.15683	141.3	136.3	0.155	1.49	1.00	141.25	0.342	0.063	1.72				
48.530	18.577	0.0383439	0.4482378	6	25.5	5.5	0.5	0.15703	151.8	146.9	0.208	1.50	1.00	151.82	0.405	0.063	2.04				
48.550	19.4081	0.0333906	0.4512969	6	25.6	4.9	0.5	0.15723	158.4	153.4	0.174	1.46	1.00	158.36	0.449	0.063	2.26				
48.570	20.5831	0.023947	0.4483511	6	25.5	4.0	0.5	0.15743	167.6	162.7	0.117	1.39	1.00	167.62	0.518	0.063	2.61				
48.610	19.7952	0.0314331	0.4539028	6	25.7	4.6	0.5	0.15783	161.2	156.2	0.160	1.44	1.00	161.18	0.469	0.063	2.36				
48.630	19.0739	0.0291691	0.4033432	6	24.9	4.8	0.5	0.15803	154.9	150.0	0.155	1.45	1.00	154.94	0.426	0.063	2.14				
48.650	15.2851	0.0438162	0.3964887	6	23.1	8.0	0.5	0.15823	124.7	119.7	0.291	1.64	1.00	124.26	0.258	0.063	1.30				
48.670	13.7785	0.0376872	0.3904555	6	21.1	8.7	0.5	0.15843	112.6	107.6	0.278	1.68	1.02	114.95	0.221	0.063	1.11				
48.690	11.5996	0.0917539	0.4163443	6	22.1	17.2	0.5	0.15863	95.4	90.4	0.805	1.97	1.26	120.23	0.242	0.063	1.22				
48.710	11.1167	0.0782701	0.3940527	6	20.8	16.8	0.5	0.15883	91.3	86.4	0.719	1.96	1.25	113.96	0.218	0.063	1.10				
48.730	11.6478	0.0689827	0.4173639	6	21.0	14.8	0.5	0.15903	95.7	90.7	0.603	1.90	1.19	113.57	0.216	0.063	1.09				
48.750	12.59	0.0576253	0.4552057	6	21.5	12.1	0.5	0.15923	103.4	98.4	0.464	1.81	1.11	115.16	0.222	0.063	1.12				
48.770	15.044	0.045825	0.4468893	6	23.5	8.7	0.5	0.15943	122.7	117.7	0.334	1.67	1.02	125.20	0.263	0.063	1.32				
48.790	15.3455	0.0375809	0.4412983	6	22.7	7.5	0.5	0.15963	125.0	120.0	0.248	1.61	1.00	124.95	0.261	0.063	1.32				
48.810	16.0002	0.0379937	0.4332541	6	23.3	7.1	0.5	0.15983	130.0	125.0	0.240	1.59	1.00	129.99	0.284	0.063	1.43				
48.830	16.7391	0.0572063	0.4019837	6	25.7	8.0	0.5	0.16003	135.5	130.5	0.346	1.64	1.00	135.23	0.310	0.063	1.56				
48.850	16.8775	0.1302667	0.4595111	6	30.6	12.6	0.5	0.16023	137.0	132.0	0.780	1.83	1.13	154.52	0.423	0.063	2.13				
48.870	15.9608	0.0543982	0.4653459	6	24.8	8.4	0.5	0.16043	129.7	124.7	0.344	1.66	1.01	130.98	0.289	0.063	1.46				
48.890	16.8118	0.056781	0.3766331	6	25.8	8.0	0.5	0.16063	135.6	130.7	0.343	1.64	1.00	135.19	0.310	0.063	1.56				
48.910	15.8241	0.0501829	0.4414966	6	24.3	8.2	0.5	0.16083	128.3	123.3	0.321	1.65	1.00	128.75	0.278	0.063	1.40				
48.930	15.5922	0.0325801	0.433509	6	22.8	7.2	0.5	0.16103	126.3	121.4	0.229	1.60	1.00	126.32	0.267	0.063	1.35				
48.950	16.151	0.0340488	0.4595422	6	23.2	6.7	0.5	0.16123	130.7	125.7	0.213	1.57	1.00	130.66	0.287	0.063	1.45				
48.970	17.0511	0.0364739	0.4471332	6	24.2	6.4	0.5	0.16143	137.7	132.8	0.216	1.55	1.00	137.72	0.323	0.063	1.63				
48.990	18.8478	0.0362488	0.4516368	6	25.8	5.4	0.5	0.16163	151.8	146.8	0.194	1.50	1.00	151.80	0.405	0.063	2.04				
47.010	19.4683	0.0339785	0.4468915	6	26.1	5.0	0.5	0.16183	156.6	151.6	0.176	1.47	1.00	156.55	0.437	0.063	2.20				
47.030	19.6006	0.037337	0.4462834	6	26.5	5.2	0.5	0.16203	157.5	152.5	0.192	1.48	1.00	157.49	0.443	0.063	2.23				
47.050	19.6322	0.0428406	0.4513535	6	27.2	5.5	0.5	0.16223	157.7	152.7	0.220	1.50	1.00	157.88	0.445	0.063	2.24				
47.070	19.8182	0.05144	0.4473031	6	28.2	5.9	0.5	0.16243	159.0	154.0	0.282	1.53	1.00	158.99	0.454	0.063	2.29				
47.090	19.5392	0.0513149	0.4464817	6	28.1	6.0	0.5	0.16263	157.5	152.5	0.284	1.53	1.00	157.50	0.443	0.063	2.23				
47.110	19.1405	0.0428594	0.4363981	6	26.8	5.8	0.5	0.16283	153.4	148.5	0.226	1.52	1.00	153.42	0.416	0.063	2.10				

CPT Verileri														K BÖLGESİ							
Derinlik m	qc	Koni Uç Direnci	fs	Sürtünme Katsayısı	u	Boşluk Suyu Basıncı	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı	
																				61	3.02
47.130	16.8162	0.0340786	0.4109342				6	25.6	5.4	0.5	0.16303	150.6	145.6	0.183	1.49	1.00	150.58	0.398	0.063	2.00	
47.170	18.4236	0.0418587	0.5029611				6	26.2	6.0	0.5	0.16343	148.0	143.1	0.229	1.83	1.00	148.05	0.382	0.063	1.92	
47.190	16.9039	0.036849	0.4556022				6	26.8	5.1	0.5	0.16363	159.2	154.2	0.186	1.47	1.00	159.16	0.455	0.063	2.29	
47.210	21.0774	0.0392382	0.4510703				6	28.1	4.8	0.5	0.16383	168.2	163.2	0.188	1.45	1.00	168.20	0.523	0.063	2.63	
47.230	22.6953	0.0466243	0.4533363				6	30.2	4.6	0.5	0.16403	180.7	175.8	0.207	1.44	1.00	180.74	0.629	0.063	3.17	
47.250	23.0468	0.0454611	0.4503905				6	30.4	4.4	0.5	0.16423	183.4	178.4	0.199	1.42	1.00	183.35	0.653	0.063	3.29	
47.270	22.7541	0.0383814	0.4304499				6	29.3	4.2	0.5	0.16443	180.8	175.8	0.170	1.41	1.00	180.80	0.630	0.063	3.18	
47.290	22.2045	0.0379874	0.4279229				6	28.9	4.4	0.5	0.16463	176.4	171.4	0.173	1.42	1.00	176.39	0.590	0.063	2.98	
47.310	21.6147	0.0383752	0.4226607				6	28.5	4.6	0.5	0.16483	171.6	166.7	0.179	1.44	1.00	171.65	0.550	0.063	2.78	
47.330	20.7146	0.0382313	0.387878				6	27.7	4.9	0.5	0.16503	164.3	159.3	0.187	1.46	1.00	164.27	0.492	0.063	2.48	
47.350	19.6488	0.0436536	0.4212728				6	27.5	5.7	0.5	0.16523	156.1	151.2	0.225	1.51	1.00	156.14	0.434	0.063	2.19	
47.370	19.811	0.04765	0.4432527				6	28.0	5.8	0.5	0.16543	157.5	152.5	0.243	1.52	1.00	157.47	0.443	0.063	2.24	
47.390	20.1922	0.0547296	0.4374178				6	29.1	6.1	0.5	0.16563	160.3	155.3	0.274	1.54	1.00	160.30	0.463	0.063	2.34	
47.410	20.6743	0.0574814	0.4361149				6	29.8	6.0	0.5	0.16583	163.9	159.0	0.281	1.53	1.00	163.93	0.490	0.063	2.47	
47.430	21.0292	0.0516276	0.4419498				6	29.5	5.5	0.5	0.16603	168.6	161.7	0.248	1.50	1.00	168.63	0.510	0.063	2.57	
47.470	21.0766	0.0400012	0.4659408				6	28.4	4.9	0.5	0.16643	167.0	162.0	0.191	1.46	1.00	166.99	0.513	0.063	2.59	
47.490	21.5709	0.0367741	0.3922116				6	28.4	4.6	0.5	0.16663	170.1	165.2	0.172	1.44	1.00	170.14	0.538	0.063	2.71	
47.510	22.3942	0.0387254	0.3975933				6	29.2	4.4	0.5	0.16683	176.4	171.4	0.175	1.42	1.00	176.38	0.590	0.063	2.98	
47.530	25.7287	0.0443291	0.4568796				6	32.5	3.7	0.5	0.16703	202.5	197.5	0.174	1.37	1.00	202.46	0.852	0.063	4.00	
47.550	26.2686	0.0513649	0.4262862				6	35.1	3.4	0.5	0.16723	221.9	216.9	0.183	1.34	1.00	221.89	1.096	0.063	4.00	
47.570	30.1651	0.0500266	0.4221508				7	36.3	3.0	0.5	0.16743	236.4	231.4	0.167	1.30	1.00	236.39	1.309	0.063	4.00	
47.590	32.2783	0.0497013	0.4149564				7	37.6	2.6	0.5	0.16763	252.5	247.5	0.155	1.26	1.00	252.51	1.577	0.063	4.00	
47.610	33.1276	0.0501204	0.4092631				7	38.2	2.5	0.5	0.16783	258.9	253.9	0.152	1.24	1.00	258.87	1.693	0.063	4.00	
47.630	33.713	0.0521592	0.4176904				7	38.9	2.5	0.5	0.16803	263.3	258.3	0.156	1.24	1.00	263.26	1.777	0.063	4.00	
47.650	33.8654	0.0541167	0.4060907				7	39.2	2.5	0.5	0.16823	264.2	259.3	0.161	1.24	1.00	264.24	1.796	0.063	4.00	
47.670	33.1442	0.0545983	0.3962054				7	38.9	2.6	0.5	0.16843	268.4	263.5	0.166	1.26	1.00	268.44	1.685	0.063	4.00	
47.690	32.5018	0.0564683	0.3920134				7	38.7	2.8	0.5	0.16863	253.3	248.3	0.175	1.28	1.00	253.31	1.592	0.063	4.00	
47.710	31.2669	0.0539354	0.3770863				7	37.6	2.9	0.5	0.16883	243.3	238.6	0.174	1.29	1.00	243.54	1.423	0.063	4.00	
47.750	23.5683	0.0769192	0.546921				6	34.5	5.8	0.5	0.16923	185.4	180.4	0.328	1.52	1.00	185.38	0.672	0.063	3.39	
47.770	22.8478	0.0710341	0.4026068				6	33.2	5.9	0.5	0.16943	178.6	173.7	0.314	1.52	1.00	178.62	0.610	0.063	3.08	
47.790	19.2168	0.0719219	0.3827795				6	29.9	7.8	0.5	0.16963	150.5	145.5	0.377	1.63	1.00	150.49	0.397	0.063	2.00	
47.810	18.6646	0.0697082	0.3705999				6	29.2	8.0	0.5	0.16983	146.1	141.1	0.379	1.64	1.00	145.80	0.368	0.063	1.86	
47.830	18.2568	0.0571775	0.4032583				6	27.8	7.5	0.5	0.17003	143.1	138.1	0.317	1.62	1.00	143.12	0.353	0.063	1.78	
47.850	16.2746	0.047231	0.4094047				6	26.9	6.8	0.5	0.17023	143.2	138.2	0.262	1.58	1.00	143.20	0.353	0.063	1.78	
47.870	18.2509	0.0381	0.4159933				6	26.0	6.2	0.5	0.17043	143.0	138.0	0.211	1.55	1.00	142.97	0.352	0.063	1.78	
47.890	17.6725	0.0295506	0.4152962				6	24.6	5.9	0.5	0.17063	138.5	133.5	0.169	1.53	1.00	138.47	0.327	0.063	1.65	
47.910	16.4008	0.0286314	0.4188368				6	23.4	6.6	0.5	0.17083	128.7	123.7	0.178	1.57	1.00	128.69	0.278	0.062	1.40	
47.930	14.4174	0.0300322	0.4194316				6	21.7	8.1	0.5	0.17103	113.5	108.5	0.212	1.64	1.00	113.37	0.216	0.062	1.09	
47.950	14.0396	0.0365052	0.4230289				6	21.9	9.1	0.5	0.17123	110.5	105.6	0.264	1.69	1.03	113.96	0.218	0.062	1.10	
47.970	14.0738	0.0376497	0.4172223				6	22.1	9.2	0.5	0.17143	110.7	105.7	0.272	1.69	1.03	114.46	0.219	0.062	1.11	
47.990	15.3157	0.0362925	0.4378144				6	23.2	8.0	0.5	0.17163	120.2	115.3	0.240	1.64	1.00	120.25	0.242	0.062	1.22	
48.010	13.2842	0.0251102	0.4623152				6	20.2	8.5	0.5	0.17183	104.9	99.9	0.192	1.67	1.01	106.38	0.192	0.062	0.97	

CPT Verileri														K BÖLGESİ				
Derinlik m	qc	qc Koni Uç Direnci	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
				Boşluk Suyu Basıncı			[%]					[%]					61	3.02
48.030	17.9372	0.0243347	0.4619186		6	24.4	5.5	0.5	0.17203	140.3	135.3	0.137	1.50	1.00	140.28	0.337	0.062	1.70
48.050	16.3557	0.0247662	0.4518917		6	24.8	5.3	0.5	0.17223	143.3	136.4	0.136	1.49	1.00	143.33	0.354	0.062	1.79
48.070	15.2123	0.0283749	0.462825		6	22.4	7.4	0.5	0.17243	119.4	114.4	0.189	1.61	1.00	119.37	0.238	0.062	1.20
48.090	19.1773	0.0255105	0.4644395		6	25.6	5.1	0.5	0.17263	149.5	144.5	0.134	1.47	1.00	149.49	0.391	0.062	1.97
48.110	18.1037	0.0318959	0.4584064		6	25.4	5.9	0.5	0.17283	141.2	136.2	0.178	1.53	1.00	141.19	0.342	0.062	1.73
48.130	16.8391	0.059357	0.4623166		6	26.7	8.7	0.5	0.17303	131.4	126.5	0.351	1.67	1.02	133.94	0.303	0.062	1.53
48.150	15.2259	0.0580881	0.4396254		6	25.6	9.6	0.5	0.17323	122.8	117.8	0.374	1.71	1.05	128.54	0.278	0.062	1.40
48.170	14.4998	0.0503518	0.4491442		6	23.7	10.1	0.5	0.17343	113.5	108.5	0.352	1.73	1.06	120.33	0.242	0.062	1.22
48.190	14.4183	0.051046	0.4485211		6	23.7	10.2	0.5	0.17363	112.8	107.9	0.359	1.74	1.06	120.09	0.241	0.062	1.22
48.210	14.6891	0.0546796	0.4381826		6	24.2	10.3	0.5	0.17383	114.7	109.8	0.378	1.74	1.07	122.38	0.250	0.062	1.27
48.230	15.6952	0.0498828	0.4631933		6	24.9	9.0	0.5	0.17403	122.5	117.5	0.322	1.69	1.03	125.94	0.266	0.062	1.34
48.250	16.4393	0.0415522	0.4684333		6	24.9	7.7	0.5	0.17423	128.1	123.1	0.256	1.63	1.00	128.09	0.275	0.061	1.39
48.270	12.9117	0.0465805	0.4947753		6	21.8	11.4	0.5	0.17443	101.5	96.5	0.365	1.79	1.10	111.36	0.208	0.061	1.05
48.290	17.5471	0.0300822	0.407337		6	24.8	6.2	0.5	0.17463	135.9	130.9	0.174	1.54	1.00	135.87	0.313	0.061	1.58
48.310	15.839	0.0335345	0.3895491		6	23.5	7.5	0.5	0.17483	122.7	117.8	0.215	1.62	1.00	122.74	0.252	0.061	1.27
48.330	15.0309	0.0458363	0.398528		6	23.9	9.3	0.5	0.17503	116.6	111.6	0.310	1.70	1.04	121.03	0.245	0.061	1.24
48.350	14.2956	0.0712154	0.4319795		6	25.0	12.3	0.5	0.17523	111.3	106.3	0.506	1.82	1.12	124.60	0.260	0.061	1.31
48.370	13.9467	0.0693705	0.4174206		6	24.5	12.6	0.5	0.17543	108.4	103.5	0.506	1.83	1.13	122.30	0.250	0.061	1.26
48.390	14.3806	0.0673379	0.425748		6	24.8	11.9	0.5	0.17563	111.7	106.7	0.476	1.80	1.11	123.90	0.257	0.061	1.30
48.410	16.8916	0.065593	0.4454337		6	27.5	9.3	0.5	0.17583	130.7	125.8	0.393	1.70	1.04	135.77	0.313	0.061	1.58
48.430	16.8679	0.0573439	0.4736433		6	28.8	7.4	0.5	0.17603	145.8	140.8	0.307	1.61	1.00	145.78	0.368	0.061	1.86
48.450	21.35	0.0544857	0.4717756		6	30.8	5.9	0.5	0.17623	164.4	159.4	0.257	1.53	1.00	164.38	0.493	0.061	2.49
48.470	26.4263	0.0501266	0.4665356		6	34.5	4.0	0.5	0.17643	202.5	197.5	0.191	1.39	1.00	202.47	0.852	0.061	4.00
48.490	26.6945	0.0506644	0.4562931		6	36.3	3.5	0.5	0.17663	219.4	214.4	0.177	1.35	1.00	219.36	1.062	0.061	4.00
48.510	26.9338	0.050308	0.4424313		6	36.4	3.4	0.5	0.17683	220.9	215.9	0.175	1.34	1.00	220.91	1.083	0.061	4.00
48.530	26.7051	0.0465305	0.4181004		6	35.8	3.4	0.5	0.17703	218.9	213.9	0.163	1.34	1.00	218.88	1.055	0.061	4.00
48.550	25.5797	0.0555677	0.4535345		6	34.6	4.5	0.5	0.17723	195.6	190.6	0.219	1.43	1.00	195.55	0.775	0.061	3.92
48.570	24.244	0.0558116	0.4322344		6	33.5	4.9	0.5	0.17743	185.3	180.3	0.232	1.46	1.00	185.25	0.671	0.061	3.39
48.590	22.532	0.0636167	0.3836842		6	32.8	6.0	0.5	0.17763	171.9	167.0	0.286	1.53	1.00	171.95	0.553	0.061	2.79
48.610	20.2667	0.0665311	0.3813633		6	31.0	7.2	0.5	0.17783	154.8	149.9	0.333	1.60	1.00	154.84	0.425	0.061	2.15
48.630	20.4236	0.0686638	0.4230289		6	31.4	7.3	0.5	0.17803	156.2	151.3	0.340	1.60	1.00	156.24	0.435	0.061	2.20
48.650	21.6199	0.0748241	0.441185		6	33.1	6.9	0.5	0.17823	165.2	160.3	0.350	1.59	1.00	165.25	0.500	0.061	2.53
48.670	26.2537	0.077332	0.4549508		6	37.5	5.2	0.5	0.17843	199.9	195.0	0.297	1.48	1.00	199.95	0.823	0.061	4.00
48.690	28.5499	0.0721536	0.4471048		6	38.9	4.3	0.5	0.17863	217.0	212.0	0.295	1.42	1.00	216.96	1.030	0.061	4.00
48.710	30.6122	0.069408	0.4527415		6	40.2	3.7	0.5	0.17883	232.3	227.3	0.228	1.37	1.00	232.30	1.246	0.061	4.00
48.730	33.9786	0.0762563	0.4430544		6	43.4	3.3	0.5	0.17903	257.3	252.3	0.226	1.33	1.00	257.26	1.663	0.061	4.00
48.750	35.9453	0.0767753	0.4448105		7	44.8	3.0	0.5	0.17923	271.8	266.8	0.215	1.29	1.00	271.92	1.948	0.061	4.00
48.770	37.5413	0.0656505	0.457415		7	47.1	2.9	0.5	0.17943	283.7	278.7	0.232	1.29	1.00	283.68	2.203	0.061	4.00
48.790	38.1031	0.0652615	0.4764492		7	44.8	2.4	0.5	0.17963	267.7	262.7	0.172	1.23	1.00	267.69	2.294	0.061	4.00
48.810	39.9077	0.0723349	0.4444499		7	46.8	2.3	0.5	0.18003	300.7	295.8	0.182	1.23	1.00	300.74	2.610	0.061	4.00
48.830	40.2889	0.0655936	0.4209487		7	48.9	2.6	0.5	0.18023	303.3	298.3	0.214	1.25	1.00	303.30	2.675	0.061	4.00
48.850	39.5316	0.0647246	0.4058358		7	49.6	2.8	0.5	0.18043	298.1	293.1	0.241	1.28	1.00	298.07	2.543	0.061	4.00

CPT Verileri													K BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Konu Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı								%					61	3.02
48.890	36.5904	0.0956315	0.3921267	7	49.1	3.0	0.5	0.18063	290.1	285.1	0.250	1.30	1.00	290.05	2.349	0.061	4.00
48.910	35.1907	0.1050251	0.3512259	6	47.7	3.8	0.5	0.18083	264.3	259.3	0.301	1.38	1.00	264.31	1.797	0.061	4.00
48.930	32.5297	0.1093842	0.3367803	6	46.2	4.5	0.5	0.18103	245.0	240.0	0.339	1.43	1.00	245.02	1.448	0.061	4.00
48.950	31.6972	0.1110603	0.3666894	6	45.6	4.8	0.5	0.18123	238.2	233.2	0.354	1.45	1.00	238.18	1.337	0.061	4.00
48.970	30.5719	0.1043622	0.3636321	6	44.0	4.9	0.5	0.18143	229.7	224.7	0.345	1.46	1.00	229.67	1.207	0.061	4.00
48.990	30.117	0.1045998	0.350716	6	43.7	5.0	0.5	0.18163	226.1	221.1	0.351	1.47	1.00	226.07	1.155	0.061	4.00
49.010	29.422	0.1144125	0.3486483	6	44.0	5.6	0.5	0.18183	220.8	215.8	0.393	1.51	1.00	220.78	1.081	0.061	4.00
49.030	29.3694	0.1073516	0.3667194	6	43.3	5.4	0.5	0.18203	220.4	215.4	0.369	1.49	1.00	220.40	1.076	0.061	4.00
49.070	29.9312	0.0628481	0.4493142	6	41.5	4.4	0.5	0.18243	224.9	219.9	0.279	1.42	1.00	224.93	1.138	0.061	4.00
49.090	30.3159	0.0904406	0.432291	6	42.6	4.6	0.5	0.18263	227.5	222.5	0.301	1.43	1.00	227.53	1.175	0.061	4.00
49.110	29.7436	0.0894336	0.3783892	6	42.0	4.7	0.5	0.18283	222.8	217.8	0.304	1.45	1.00	222.77	1.108	0.061	4.00
49.130	28.9321	0.0780887	0.3558428	6	40.1	4.6	0.5	0.18303	216.5	211.5	0.273	1.43	1.00	216.48	1.024	0.061	4.00
49.150	29.1748	0.0729916	0.358392	6	39.8	4.3	0.5	0.18323	218.2	213.2	0.253	1.42	1.00	218.18	1.046	0.061	4.00
49.170	29.7726	0.0753744	0.3685861	6	40.6	4.2	0.5	0.18343	222.7	217.7	0.256	1.41	1.00	222.70	1.107	0.061	4.00
49.190	31.0355	0.071991	0.3942227	6	41.2	3.8	0.5	0.18363	231.9	227.0	0.234	1.38	1.00	231.94	1.240	0.061	4.00
49.210	31.0842	0.073223	0.3933163	6	41.4	3.9	0.5	0.18383	232.2	227.3	0.238	1.38	1.00	232.24	1.245	0.061	4.00
49.230	30.5307	0.0796397	0.3676825	6	41.7	4.2	0.5	0.18403	227.8	222.8	0.264	1.41	1.00	227.77	1.179	0.061	4.00
49.250	27.3212	0.0778866	0.3502911	6	38.9	5.1	0.5	0.18423	203.9	198.9	0.289	1.47	1.00	203.87	0.868	0.061	4.00
49.270	24.3141	0.0652497	0.3242324	6	36.9	6.5	0.5	0.18443	181.4	176.4	0.356	1.56	1.00	181.42	0.635	0.061	3.23
49.290	21.0362	0.0652497	0.3242324	6	33.7	8.2	0.5	0.18463	157.2	152.2	0.412	1.65	1.00	157.50	0.443	0.061	2.26
49.310	14.002	0.1105225	0.4630205	6	27.2	16.6	0.5	0.18483	106.5	101.6	0.800	1.95	1.24	132.37	0.296	0.061	1.51
49.330	12.6058	0.1570843	0.4411567	5	27.0	23.1	0.5	0.18503	95.9	90.9	1.270	2.11	1.48	141.56	0.344	0.061	1.75
49.350	12.6058	0.2357048	0.6652048	5	29.5	28.2	0.5	0.18523	97.5	92.5	1.872	2.22	1.71	166.32	0.508	0.061	2.59
49.370	14.6418	0.2677693	0.9032169	5	34.0	25.3	0.5	0.18543	114.2	109.2	1.801	2.15	1.56	177.66	0.602	0.061	3.06
49.390	17.0677	0.2486943	0.6353223	6	36.8	20.3	0.5	0.18563	129.9	124.9	1.461	2.05	1.37	177.54	0.600	0.061	3.06
49.410	18.5112	0.237537	0.3760949	6	38.3	18.1	0.5	0.18583	138.6	133.6	1.305	1.99	1.29	178.80	0.612	0.061	3.12
49.430	18.2132	0.2210387	0.1433511	6	36.9	18.0	0.5	0.18603	134.6	129.6	1.250	1.99	1.29	173.29	0.564	0.061	2.87
49.450	16.9266	0.2129021	0.120918	6	34.8	19.4	0.5	0.18623	124.9	119.9	1.301	2.03	1.34	167.02	0.513	0.061	2.62
49.470	15.4516	0.2132461	0.1240054	5	32.6	21.9	0.5	0.18643	114.1	109.1	1.432	2.09	1.43	163.05	0.483	0.061	2.46
49.490	15.6803	0.232585	0.1770008	5	33.6	22.5	0.5	0.18663	116.1	111.1	1.532	2.10	1.45	168.77	0.527	0.061	2.69
49.510	18.5874	0.2264985	0.1541712	6	37.9	17.7	0.5	0.18683	137.8	132.9	1.247	1.98	1.28	176.09	0.588	0.061	3.00
49.530	20.4254	0.2158791	0.1193885	6	39.9	15.3	0.5	0.18703	150.2	145.2	1.087	1.91	1.20	180.60	0.628	0.061	3.20
49.550	24.6016	0.211276	0.0576973	6	45.1	11.6	0.5	0.18723	180.2	175.2	0.981	1.79	1.10	196.49	0.807	0.061	4.00
49.570	28.9119	0.2012069	0.2056087	6	49.9	8.7	0.5	0.18743	212.7	207.7	0.708	1.68	1.02	217.13	1.032	0.061	4.00
49.590	30.8488	0.1924137	0.1070672	6	51.5	7.7	0.5	0.18763	226.0	221.0	0.636	1.62	1.00	225.99	1.153	0.061	4.00
49.610	32.7086	0.1822007	0.0972103	6	52.7	6.7	0.5	0.18783	239.4	234.4	0.567	1.57	1.00	239.37	1.356	0.061	4.00
49.630	34.3334	0.1746334	0.1126472	6	53.8	6.0	0.5	0.18803	251.2	246.2	0.518	1.53	1.00	251.19	1.554	0.061	4.00
49.650	36.4072	0.165396	0.1465801	6	55.1	5.2	0.5	0.18823	266.4	261.4	0.461	1.48	1.00	266.43	1.859	0.061	4.00
49.670	37.4754	0.1683041	0.1636882	6	56.3	5.0	0.5	0.18843	274.2	269.2	0.455	1.47	1.00	274.21	1.997	0.061	4.00
49.690	38.2287	0.1678538	0.2017849	6	57.0	4.8	0.5	0.18863	279.8	274.8	0.445	1.46	1.00	279.80	2.117	0.061	4.00
49.710	39.579	0.1677725	0.2412412	6	58.3	4.5	0.5	0.18883	289.8	284.8	0.429	1.43	1.00	289.78	2.343	0.061	4.00
49.730	40.579	0.1630951	0.2785731	6	60.5	4.6	0.5	0.18903	297.2	292.2	0.456	1.44	1.00	297.17	2.521	0.061	4.00

CPT Verileri													K BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N) ^{0.5}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
	Konul Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı													61	3.02
49.750	40.4335	0.1998811	0.3343727	6	61.9	5.0	0.5	0.18923	296.4	291.4	0.499	1.47	1.00	296.36	2.501	0.061	4.00
49.790	33.4361	0.130348	0.0793091	6	49.4	5.2	0.5	0.18953	243.4	236.4	0.397	1.48	1.00	243.38	1.421	0.061	4.00
49.810	34.7753	0.1364207	0.0389464	6	51.2	5.0	0.5	0.18983	252.7	247.7	0.400	1.47	1.00	252.68	1.580	0.061	4.00
49.830	34.7569	0.1387535	0.0833028	6	51.4	5.1	0.5	0.19003	252.7	247.7	0.406	1.47	1.00	252.74	1.581	0.061	4.00
49.850	33.9251	0.139156	0.2632211	6	50.6	5.2	0.5	0.19023	247.9	242.9	0.406	1.48	1.00	247.88	1.496	0.061	4.00
49.870	27.081	0.139973	0.2974373	6	44.3	7.6	0.5	0.19043	198.4	193.4	0.524	1.62	1.00	198.40	0.806	0.061	4.00
49.890	21.6445	0.2109768	0.2081296	6	41.7	14.0	0.5	0.19063	158.3	153.3	0.997	1.87	1.17	184.54	0.664	0.061	3.40
49.910	12.9432	0.1604177	0.5541438	5	28.0	22.8	0.5	0.19083	97.7	92.7	1.253	2.11	1.47	143.27	0.354	0.061	1.81
49.930	25.6007	0.3996496	0.770281	6	54.7	16.4	0.5	0.19103	190.8	185.8	1.596	1.95	1.24	236.08	1.304	0.061	4.00
49.950	44.5396	0.5758839	0.8826249	6	88.3	9.5	0.5	0.19123	328.5	323.5	1.287	1.73	1.06	346.73	3.957	0.061	4.00
49.970	57.1805	0.5961284	0.802891	6	105.6	7.0	0.5	0.19143	419.1	414.1	1.041	1.59	1.00	419.08	6.925	0.061	4.00
49.990	62.3685	0.5956468	1.2075088	6	112.3	6.0	0.5	0.19163	459.4	454.4	0.947	1.53	1.00	459.39	9.086	0.061	4.00
50.010	42.5317	0.7237308	0.0409575	6	89.3	13.1	0.5	0.19183	307.4	302.4	1.728	1.84	1.14	350.69	4.091	0.061	4.00
50.030	22.882	0.0269114	0.3545115	6	30.2	4.5	0.5	0.19253	167.5	162.5	0.119	1.43	1.00	167.46	0.517	0.061	2.65
50.100	22.882	0.0269114	0.3545115	6	30.2	4.5	0.5	0.19273	167.4	162.4	0.119	1.43	1.00	167.38	0.516	0.061	2.65
50.120	37.0522	0.0463929	0.2706422	7	43.0	2.4	0.5	0.19293	268.7	263.7	0.127	1.23	1.00	268.70	1.884	0.061	4.00
50.140	61.5995	0.0529034	0.3420487	7	56.7	0.9	0.5	0.19313	445.7	440.7	0.086	0.98	1.00	445.71	8.315	0.061	4.00
50.300	25.4982	0.1330372	0.0802721	6	42.3	8.4	0.5	0.19473	183.3	178.3	0.595	1.66	1.01	185.31	0.672	0.061	3.45
50.320	28.4728	0.1753963	0.1779639	6	46.2	9.4	0.5	0.19493	190.9	185.9	0.676	1.71	1.04	198.98	0.813	0.061	4.00
50.340	28.961	0.2002	0.2053538	6	50.5	9.0	0.5	0.19513	208.8	203.8	0.763	1.69	1.03	214.79	1.002	0.061	4.00
50.360	30.0705	0.2319584	0.0363405	6	53.4	9.5	0.5	0.19533	215.4	210.4	0.789	1.71	1.04	224.75	1.136	0.061	4.00
50.380	30.734	0.2308139	0.0130293	6	54.1	9.1	0.5	0.19553	219.9	214.9	0.788	1.69	1.03	227.30	1.172	0.061	4.00
50.400	26.7611	0.1326808	0.3760666	6	44.0	7.7	0.5	0.19573	194.0	189.0	0.502	1.63	1.00	193.97	0.759	0.061	3.90
50.420	31.3046	0.1079083	0.2607569	6	46.2	5.3	0.5	0.19593	225.5	220.5	0.350	1.48	1.00	225.51	1.147	0.061	4.00
50.440	29.7655	0.0966509	0.1960067	6	43.7	5.4	0.5	0.19613	213.9	208.9	0.330	1.49	1.00	213.94	0.991	0.061	4.00
50.460	30.6464	0.1036117	0.2518913	6	45.2	5.3	0.5	0.19633	220.5	215.5	0.343	1.49	1.00	220.52	1.077	0.061	4.00
50.480	32.5701	0.1178273	0.3231561	6	48.4	5.2	0.5	0.19653	234.6	229.6	0.366	1.48	1.00	234.63	1.281	0.061	4.00
50.500	33.16	0.1215359	0.3828645	6	49.3	5.1	0.5	0.19673	239.1	234.1	0.370	1.48	1.00	239.15	1.352	0.061	4.00
50.520	32.5877	0.1306794	0.3998027	6	49.7	5.5	0.5	0.19693	235.1	230.1	0.405	1.50	1.00	235.07	1.288	0.061	4.00
50.540	31.9733	0.1423871	0.2016433	6	49.9	6.1	0.5	0.19713	229.2	224.2	0.452	1.54	1.00	229.16	1.199	0.061	4.00
50.560	30.2178	0.1417367	0.1912765	6	48.1	6.7	0.5	0.19733	216.5	211.5	0.477	1.57	1.00	216.47	1.023	0.061	4.00
50.580	29.0311	0.136477	0.1865179	6	46.5	7.0	0.5	0.19753	207.9	202.9	0.479	1.59	1.00	207.89	0.916	0.061	4.00
50.600	28.1108	0.1209793	0.2320357	6	44.5	6.8	0.5	0.19773	201.6	196.6	0.438	1.58	1.00	201.56	0.842	0.061	4.00
50.640	26.3854	0.1136745	0.4656533	6	42.4	7.2	0.5	0.19813	191.0	186.0	0.494	1.60	1.00	190.96	0.728	0.061	3.75
50.680	25.2142	0.0782701	0.4712658	6	38.3	6.2	0.5	0.19853	182.3	177.3	0.313	1.55	1.00	182.29	0.643	0.061	3.32
50.700	27.3404	0.0797523	0.4113025	6	40.3	5.5	0.5	0.19873	196.9	191.9	0.295	1.50	1.00	196.86	0.790	0.061	4.00
50.720	28.6516	0.1111416	0.1767176	6	44.2	6.3	0.5	0.19893	204.4	199.4	0.395	1.55	1.00	204.39	0.874	0.061	4.00
50.740	29.6902	0.1415616	0.0376152	6	47.6	7.0	0.5	0.19913	210.7	205.7	0.488	1.59	1.00	210.67	0.949	0.061	4.00
50.760	30.3098	0.1530066	0.0042487	6	49.0	7.2	0.5	0.19933	214.7	209.7	0.517	1.60	1.00	214.71	1.001	0.061	4.00
50.780	28.337	0.1435441	-0.0201105	6	46.3	7.7	0.5	0.19953	200.5	195.5	0.520	1.63	1.00	200.47	0.829	0.061	4.00
50.800	26.8496	0.1454829	-0.0274749	6	44.8	8.5	0.5	0.19973	189.8	184.8	0.557	1.66	1.01	192.15	0.740	0.061	3.82
50.820	24.9583	0.1424309	-0.0174763	6	42.5	9.4	0.5	0.19993	176.4	171.4	0.588	1.70	1.04	183.45	0.654	0.061	3.38

CPT Verileri														K BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
	Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı			[%]					[%]						3.02
50.840	16.6085	0.1180649	-0.0193741	6	33.5	13.0	0.5	0.20013	131.4	126.4	0.680	1.84	1.14	149.48	0.391	0.061	2.02
50.860	14.5724	0.0793145	-0.018551	6	26.5	14.7	0.5	0.20033	103.5	98.5	0.569	1.90	1.19	122.80	0.252	0.061	1.30
50.880	11.377	0.0673513	-0.0103102	5	22.9	22.9	0.5	0.20053	80.3	75.3	0.913	2.11	1.47	117.73	0.232	0.061	1.20
50.900	11.7267	0.1622189	0.0067129	5	25.6	28.4	0.5	0.20073	82.8	77.8	1.472	2.22	1.71	141.80	0.345	0.061	1.78
50.920	15.2596	0.2697525	0.5938266	5	35.6	26.9	0.5	0.20093	111.8	106.8	1.913	2.19	1.64	163.49	0.655	0.061	3.38
50.940	14.5623	0.0315632	0.4665922	6	23.5	9.5	0.5	0.20113	106.6	101.6	0.219	1.71	1.04	111.32	0.208	0.061	1.08
50.960	27.372	0.1504361	0.2642691	6	46.1	8.3	0.5	0.20133	194.8	189.8	0.559	1.66	1.01	196.20	0.782	0.061	4.00
50.980	32.2809	0.1429813	0.3223064	6	50.7	6.1	0.5	0.20153	229.7	224.7	0.448	1.54	1.00	229.66	1.207	0.061	4.00
51.000	35.8989	0.1324994	0.2893634	6	53.2	4.9	0.5	0.20173	254.9	249.8	0.373	1.46	1.00	254.86	1.620	0.061	4.00
51.020	36.5606	0.11243	0.3172929	6	51.8	4.2	0.5	0.20193	259.5	254.5	0.311	1.41	1.00	259.52	1.705	0.061	4.00
51.040	37.5132	0.0955502	0.290781	6	50.7	3.7	0.5	0.20213	265.9	260.9	0.258	1.36	1.00	265.90	1.828	0.061	4.00
51.060	37.4107	0.0888207	0.3207768	6	49.8	3.5	0.5	0.20233	265.3	260.2	0.240	1.35	1.00	265.26	1.816	0.061	4.00
51.080	37.2091	0.0761937	0.3704583	6	48.2	3.2	0.5	0.20253	264.1	259.1	0.207	1.32	1.00	264.06	1.792	0.061	4.00
51.100	37.2424	0.0704837	0.4351802	7	47.6	3.1	0.5	0.20273	264.6	259.6	0.191	1.31	1.00	264.62	1.803	0.061	4.00
51.120	36.7569	0.0714719	0.4424313	6	47.4	3.2	0.5	0.20293	261.1	256.1	0.196	1.32	1.00	261.13	1.736	0.061	4.00
51.140	36.905	0.0781888	0.4673287	6	48.4	3.3	0.5	0.20313	262.2	257.2	0.213	1.33	1.00	262.22	1.757	0.061	4.00
51.160	37.3239	0.0768017	0.4689148	6	48.8	3.3	0.5	0.20333	265.0	260.0	0.213	1.33	1.00	265.04	1.811	0.061	4.00
51.180	36.5645	0.0769067	0.4755145	7	49.4	3.1	0.5	0.20353	273.6	268.6	0.201	1.30	1.00	273.58	1.984	0.061	4.00
51.200	38.7236	0.0811407	0.4773556	6	50.1	3.1	0.5	0.20373	274.6	269.6	0.211	1.31	1.00	274.64	2.007	0.061	4.00
51.240	37.6456	0.07251	0.4766585	7	48.3	3.1	0.5	0.20413	266.8	261.8	0.194	1.31	1.00	266.84	1.847	0.061	4.00
51.260	37.9734	0.0775383	0.4542993	6	49.2	3.2	0.5	0.20433	268.8	263.8	0.206	1.32	1.00	268.83	1.867	0.061	4.00
51.280	38.3178	0.0820601	0.4430325	6	50.0	3.2	0.5	0.20453	271.0	266.0	0.216	1.32	1.00	271.03	1.932	0.061	4.00
51.300	39.1592	0.0888958	0.4431677	6	51.5	3.3	0.5	0.20473	276.8	271.8	0.229	1.32	1.00	276.78	2.052	0.061	4.00
51.320	39.1943	0.092198	0.4525149	6	52.0	3.3	0.5	0.20493	277.0	271.9	0.237	1.33	1.00	276.95	2.056	0.061	4.00
51.340	36.2424	0.0905656	0.4341038	6	51.1	3.5	0.5	0.20513	270.0	265.0	0.239	1.34	1.00	270.04	1.911	0.061	4.00
51.360	37.4186	0.091485	0.4460568	6	50.6	3.6	0.5	0.20533	264.2	259.2	0.246	1.36	1.00	264.25	1.796	0.061	4.00
51.380	36.6805	0.0963882	0.4519767	6	50.6	3.9	0.5	0.20553	258.9	253.9	0.285	1.38	1.00	258.87	1.693	0.061	4.00
51.400	36.3441	0.0945182	0.4682917	6	50.2	3.9	0.5	0.20573	256.7	251.6	0.282	1.38	1.00	256.65	1.652	0.061	4.00
51.420	35.5825	0.0880077	0.4623718	6	48.8	3.9	0.5	0.20593	251.2	246.2	0.249	1.38	1.00	251.18	1.554	0.061	4.00
51.440	35.1241	0.0862065	0.4661957	6	48.3	3.9	0.5	0.20613	247.9	242.9	0.247	1.38	1.00	247.89	1.497	0.061	4.00
51.460	34.9786	0.0893899	0.4781487	6	48.6	4.0	0.5	0.20633	246.8	241.8	0.257	1.39	1.00	246.84	1.479	0.061	4.00
51.480	33.0469	0.0813346	0.5274619	6	46.1	4.2	0.5	0.20653	233.6	228.6	0.248	1.41	1.00	233.62	1.266	0.061	4.00
51.500	33.3055	0.0641233	0.4552624	6	44.3	3.7	0.5	0.20673	234.8	229.8	0.194	1.36	1.00	234.81	1.238	0.061	4.00
51.520	32.9084	0.0572625	0.4324043	6	43.1	3.6	0.5	0.20693	231.8	226.8	0.176	1.36	1.00	231.77	1.238	0.061	4.00
51.540	32.5754	0.0554426	0.4262862	6	42.7	3.6	0.5	0.20713	229.3	224.3	0.172	1.36	1.00	229.31	1.201	0.061	4.00
51.560	32.2511	0.058751	0.4538594	6	42.9	3.8	0.5	0.20733	227.1	222.1	0.184	1.37	1.00	227.13	1.170	0.061	4.00
51.580	31.9198	0.0651052	0.4609273	6	43.4	4.0	0.5	0.20753	224.8	219.8	0.206	1.39	1.00	224.77	1.136	0.061	4.00
51.600	31.2187	0.0600831	0.4295979	6	42.2	4.0	0.5	0.20773	219.6	214.6	0.194	1.39	1.00	219.58	1.065	0.061	4.00
51.620	29.9294	0.0561743	0.4163159	6	40.7	4.2	0.5	0.20793	210.4	205.4	0.190	1.41	1.00	210.45	0.947	0.061	4.00
51.640	28.337	0.0564933	0.4097163	6	39.4	4.6	0.5	0.20813	199.3	194.2	0.202	1.44	1.00	199.26	0.816	0.061	4.00
51.660	27.0056	0.0577066	0.4206496	6	38.5	5.1	0.5	0.20833	190.0	185.0	0.216	1.47	1.00	190.02	0.718	0.061	3.73
51.680	26.7638	0.0574439	0.4145315	6	38.2	5.1	0.5	0.20853	188.2	183.2	0.217	1.48	1.00	188.21	0.700	0.061	3.64

CPT Verileri														K BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
		Sürtünme Katsayısı	Boşluk Suyu Basıncı			[%]					[%]					61	3.02
51.700	26.1923	0.0498639	0.4446123	6	36.9	5.0	0.5	0.20873	184.4	179.3	0.192	1.47	1.00	184.37	0.663	0.061	3.45
51.720	26.5122	0.0525895	0.481405	6	37.6	5.0	0.5	0.20893	186.7	181.7	0.200	1.47	1.00	186.75	0.686	0.061	3.57
51.740	27.2975	0.0642734	0.4883172	6	39.6	5.2	0.5	0.20913	192.1	187.1	0.238	1.48	1.00	192.14	0.740	0.061	3.85
51.760	28.4264	0.0695581	0.4850882	6	41.1	5.1	0.5	0.20933	199.8	194.8	0.247	1.47	1.00	199.83	0.822	0.061	4.00
51.780	29.9899	0.0735858	0.4896751	6	43.0	4.8	0.5	0.20953	210.6	205.5	0.247	1.45	1.00	210.57	0.948	0.061	4.00
51.800	31.4693	0.0714781	0.4890537	6	44.0	4.4	0.5	0.20973	220.7	215.7	0.229	1.42	1.00	220.88	1.079	0.061	4.00
51.820	32.3125	0.0662059	0.4965597	6	44.1	4.0	0.5	0.20993	226.4	221.4	0.206	1.39	1.00	226.44	1.160	0.061	4.00
51.840	33.0864	0.0667	0.4887138	6	44.8	3.9	0.5	0.21013	231.6	226.6	0.203	1.38	1.00	231.62	1.236	0.061	4.00
51.860	33.5531	0.0696269	0.5019131	6	45.5	3.9	0.5	0.21033	234.9	229.9	0.209	1.38	1.00	234.89	1.285	0.061	4.00
51.880	34.5737	0.0722786	0.4950019	6	46.7	3.7	0.5	0.21053	241.7	236.7	0.210	1.37	1.00	241.69	1.393	0.061	4.00
51.900	36.1635	0.0839801	0.5161604	6	49.3	3.8	0.5	0.21073	252.7	247.6	0.234	1.37	1.00	252.67	1.580	0.061	4.00
51.920	35.8208	0.0885149	0.4572185	6	49.7	4.0	0.5	0.21093	249.7	244.6	0.252	1.39	1.00	249.85	1.527	0.061	4.00
51.940	37.9541	0.0902467	0.3669433	6	51.1	3.7	0.5	0.21113	261.2	256.2	0.242	1.36	1.00	261.19	1.737	0.061	4.00
51.960	37.2442	0.0939429	0.3733757	6	51.3	3.8	0.5	0.21133	258.8	253.7	0.255	1.38	1.00	258.77	1.691	0.061	4.00
51.980	36.9987	0.093774	0.5035842	6	50.5	4.0	0.5	0.21153	251.7	246.6	0.261	1.39	1.00	251.66	1.562	0.061	4.00
52.000	37.0619	0.0938053	0.5161321	6	51.3	3.9	0.5	0.21173	258.3	253.2	0.255	1.38	1.00	258.25	1.682	0.061	4.00
52.020	37.1232	0.0967635	0.4806678	6	51.7	3.9	0.5	0.21193	256.3	253.3	0.262	1.39	1.00	256.31	1.683	0.061	4.00
52.040	37.3537	0.1133556	0.4641846	6	53.7	4.3	0.5	0.21213	259.7	254.6	0.306	1.42	1.00	259.85	1.708	0.061	4.00
52.060	38.4826	0.1226867	0.4680934	6	55.6	4.3	0.5	0.21233	267.3	262.3	0.321	1.42	1.00	267.31	1.856	0.061	4.00
52.080	39.1145	0.1246005	0.4641535	6	56.4	4.2	0.5	0.21253	271.6	266.6	0.321	1.41	1.00	271.63	1.944	0.061	4.00
52.100	36.3047	0.139898	0.394421	6	57.2	4.8	0.5	0.21273	265.3	260.3	0.368	1.45	1.00	265.33	1.817	0.061	4.00
52.120	37.0014	0.1516119	0.5042074	6	57.2	5.3	0.5	0.21293	257.0	252.0	0.412	1.49	1.00	257.03	1.659	0.061	1.83
52.140	36.3599	0.1626004	0.4976077	6	57.5	5.8	0.5	0.21313	252.5	247.4	0.450	1.52	1.00	252.47	1.577	0.061	2.59
52.160	36.2696	0.1756214	0.4205646	6	60.4	5.6	0.5	0.21333	264.9	259.9	0.463	1.51	1.00	264.90	1.809	0.061	4.00
52.180	36.1916	0.173445	0.4150697	6	58.2	6.1	0.5	0.21353	250.5	245.5	0.484	1.54	1.00	250.51	1.542	0.061	4.00
52.200	35.6184	0.1681915	0.4542454	6	57.3	6.1	0.5	0.21373	246.6	241.6	0.476	1.54	1.00	246.61	1.475	0.061	4.00
52.240	36.2836	0.1625503	0.3171513	6	57.4	5.9	0.5	0.21413	250.1	245.1	0.453	1.52	1.00	250.12	1.535	0.061	4.00
52.260	35.3483	0.1152568	0.5063711	6	52.4	4.8	0.5	0.21433	244.9	239.9	0.328	1.46	1.00	244.93	1.446	0.061	4.00
52.280	35.0391	0.1108289	0.4872962	6	51.7	4.8	0.5	0.21453	242.6	237.6	0.318	1.45	1.00	242.62	1.408	0.061	4.00
52.300	35.862	0.1078895	0.4965588	6	52.1	4.5	0.5	0.21473	248.1	243.1	0.303	1.43	1.00	248.12	1.501	0.061	4.00
52.320	35.699	0.1054629	0.4924526	6	51.7	4.5	0.5	0.21493	246.9	241.8	0.297	1.43	1.00	246.86	1.479	0.061	4.00
52.340	34.8796	0.1048312	0.4737867	6	51.0	4.7	0.5	0.21513	241.0	236.0	0.303	1.44	1.00	241.04	1.382	0.061	4.00
52.360	34.11	0.0973764	0.4763076	6	49.6	4.7	0.5	0.21533	235.7	230.7	0.288	1.44	1.00	235.70	1.298	0.061	4.00
52.380	33.3151	0.0982707	0.4784319	6	49.0	4.9	0.5	0.21553	230.2	225.2	0.287	1.46	1.00	230.19	1.214	0.061	4.00
52.400	32.6357	0.0837674	0.4818592	6	47.0	4.6	0.5	0.21573	226.8	221.8	0.257	1.44	1.00	226.84	1.166	0.061	4.00
52.420	32.2704	0.0838188	0.4849749	6	46.8	4.8	0.5	0.21593	222.9	217.9	0.268	1.45	1.00	222.91	1.110	0.061	4.00
52.440	31.6981	0.0895837	0.472852	6	46.7	5.1	0.5	0.21613	218.8	213.8	0.285	1.47	1.00	218.83	1.055	0.061	0.89
52.460	32.3922	0.0870859	0.5164436	6	45.3	4.3	0.5	0.21673	223.5	218.5	0.220	1.42	1.00	223.54	1.119	0.060	1.03
52.520	31.3037	0.0704712	0.4856816	6	44.4	4.6	0.5	0.21693	215.9	210.9	0.227	1.43	1.00	215.90	1.016	0.060	1.11
52.540	31.0969	0.0737421	0.488034	6	44.6	4.7	0.5	0.21713	214.3	209.3	0.239	1.45	1.00	214.35	0.996	0.060	1.11
52.560	30.677	0.0792707	0.4832188	6	44.8	5.0	0.5	0.21733	211.4	206.3	0.261	1.47	1.00	211.37	0.958	0.059	4.00

CPT Verileri														K BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																61	3.02
52.580	29.7267	0.0750867	0.480358	6	43.5	5.2	0.5	0.21753	204.8	199.8	0.255	1.48	1.00	204.82	0.879	0.059	4.00
52.600	28.0084	0.0767128	0.4814627	6	43.0	5.5	0.5	0.21773	199.2	194.1	0.268	1.50	1.00	199.18	0.815	0.059	4.00
52.620	28.1941	0.0748676	0.4854848	6	42.1	5.6	0.5	0.21793	194.3	189.2	0.267	1.51	1.00	194.27	0.762	0.059	4.00
52.640	27.6086	0.0713093	0.5058352	6	41.3	5.7	0.5	0.21813	190.4	185.3	0.261	1.51	1.00	190.36	0.722	0.059	4.00
52.660	27.3475	0.0680071	0.4625701	6	40.7	5.6	0.5	0.21833	188.2	183.2	0.251	1.51	1.00	188.21	0.700	0.059	4.00
52.680	27.8996	0.0672879	0.4518012	6	41.1	5.4	0.5	0.21853	192.1	187.0	0.243	1.50	1.00	192.06	0.739	0.059	4.00
52.700	28.393	0.0681885	0.4680043	6	41.7	5.3	0.5	0.21873	195.3	190.3	0.242	1.49	1.00	195.35	0.773	0.059	4.00
52.720	26.9586	0.0631414	0.4693411	6	39.8	5.6	0.5	0.21893	185.3	180.2	0.237	1.51	1.00	185.29	0.672	0.059	4.00
52.740	25.2405	0.0621345	0.5635475	6	38.2	6.1	0.5	0.21913	174.3	169.3	0.248	1.54	1.00	174.32	0.573	0.059	4.00
52.760	26.5429	0.0686575	0.5064733	6	40.1	6.0	0.5	0.21933	182.6	177.6	0.261	1.53	1.00	182.65	0.647	0.059	3.97
52.780	27.6139	0.0692517	0.505482	6	41.2	5.6	0.5	0.21953	189.8	184.7	0.253	1.51	1.00	189.78	0.716	0.059	3.67
52.800	27.8366	0.0693017	0.5016865	6	41.4	5.6	0.5	0.21973	191.2	186.1	0.251	1.50	1.00	191.17	0.730	0.059	2.87
52.820	28.1906	0.0648988	0.4655117	6	41.3	5.3	0.5	0.21993	193.4	188.4	0.232	1.49	1.00	193.43	0.753	0.059	2.54
52.840	27.4009	0.0536414	0.484635	6	39.3	5.1	0.5	0.22013	187.9	182.9	0.198	1.47	1.00	187.95	0.697	0.059	2.50
52.860	25.8768	0.0497389	0.480273	6	37.5	5.4	0.5	0.22033	177.6	172.5	0.194	1.49	1.00	177.57	0.601	0.059	2.68
52.880	24.3947	0.0486069	0.4635698	6	36.0	5.9	0.5	0.22053	167.4	162.3	0.202	1.52	1.00	167.39	0.516	0.059	2.94
52.900	23.3264	0.0509647	0.4804147	6	35.3	6.4	0.5	0.22073	160.2	155.2	0.221	1.56	1.00	160.24	0.463	0.059	3.60
52.920	24.2615	0.0489758	0.4664195	6	36.0	5.9	0.5	0.22093	166.5	161.5	0.204	1.53	1.00	166.50	0.509	0.059	4.00
52.940	25.1047	0.0536228	0.4694468	6	37.3	5.9	0.5	0.22113	172.2	167.1	0.217	1.52	1.00	172.18	0.555	0.070	1.83
52.960	25.2694	0.056806	0.4639269	6	37.8	6.0	0.5	0.22133	173.1	168.1	0.227	1.53	1.00	173.11	0.562	0.070	2.59
52.980	29.1363	0.0501829	0.5040941	6	40.6	4.5	0.5	0.22153	199.1	194.1	0.174	1.43	1.00	199.14	0.814	0.070	4.00
53.020	30.1793	0.0469337	0.4684008	6	41.1	4.1	0.5	0.22193	205.9	200.9	0.157	1.40	1.00	205.92	0.892	0.070	4.00
53.040	31.2818	0.0422927	0.5081162	6	41.4	3.8	0.5	0.22213	213.3	208.2	0.136	1.37	1.00	213.30	0.982	0.070	4.00
53.060	31.8076	0.0417774	0.5025362	6	41.8	3.7	0.5	0.22233	216.7	211.6	0.132	1.36	1.00	216.69	1.026	0.070	4.00
53.080	32.0329	0.044992	0.4937556	6	42.4	3.7	0.5	0.22253	218.0	213.0	0.142	1.37	1.00	218.04	1.044	0.070	4.00
53.100	32.2835	0.0497514	0.5024796	6	43.2	3.8	0.5	0.22273	219.7	214.6	0.155	1.38	1.00	219.68	1.066	0.070	4.00
53.120	33.0715	0.0638294	0.518653	6	45.6	4.1	0.5	0.22293	225.0	219.9	0.194	1.40	1.00	224.97	1.139	0.070	4.00
53.140	35.252	0.0777197	0.510722	6	49.1	4.0	0.5	0.22313	239.4	234.4	0.222	1.39	1.00	239.42	1.356	0.070	4.00
53.160	37.1364	0.0682266	0.5174067	6	51.9	4.0	0.5	0.22333	246.9	246.9	0.239	1.39	1.00	251.96	1.568	0.070	4.00
53.180	36.7863	0.1019481	0.4793383	6	53.1	4.4	0.5	0.22353	249.1	244.1	0.279	1.42	1.00	249.13	1.518	0.070	4.00
53.200	37.0277	0.1119171	0.4594261	6	54.4	4.6	0.5	0.22373	250.6	245.6	0.305	1.44	1.00	250.62	1.544	0.070	4.00
53.220	36.5194	0.1161074	0.4213861	6	54.4	4.8	0.5	0.22393	246.9	241.8	0.321	1.46	1.00	246.86	1.479	0.070	4.00

CPT Verileri													L BÖLGESİ						
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	fs Sürtünme Suyu Basıncı	u Boşluk	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı	
																	55	2.47	
43.370	8.0746	0.0366928	0.4312997	6	13.8	14.4	0.462	0.5	0.12843	75.9	71.0	1.89	1.18		89.46	0.147	0.055	0.71	
43.390	8.8564	0.0345414	0.4315263	6	14.5	12.4	0.396	0.5	0.12563	82.9	77.9	1.82	1.12		93.05	0.155	0.054	0.75	
43.410	8.8853	0.033597	0.4312147	6	14.4	12.2	0.384	0.5	0.12583	83.1	78.1	1.82	1.12		92.85	0.154	0.054	0.75	
43.430	8.2762	0.0386378	0.424785	6	14.1	14.4	0.475	0.5	0.12803	77.5	72.5	1.89	1.18		91.17	0.150	0.053	0.73	
43.450	7.9165	0.0386378	0.424785	6	13.8	15.3	0.496	0.5	0.12623	74.3	69.3	1.91	1.20		89.25	0.146	0.053	0.71	
43.470	7.7153	0.0407517	0.429147	6	13.7	16.2	0.537	0.5	0.12643	72.4	67.4	1.94	1.23		89.06	0.146	0.052	0.70	
43.490	7.7091	0.0403452	0.4248417	6	13.6	16.2	0.533	0.5	0.12663	72.3	67.3	1.94	1.23		88.83	0.145	0.052	0.70	
43.510	8.001	0.0382438	0.4329992	6	13.9	15.0	0.486	0.5	0.12683	74.9	69.9	1.91	1.19		89.49	0.147	0.051	0.71	
43.530	9.4182	0.0362675	0.4333107	6	15.2	11.8	0.390	0.5	0.12703	87.4	82.4	1.80	1.11		96.69	0.164	0.051	0.79	
43.550	10.3472	0.033228	0.4336506	6	15.9	9.9	0.325	0.5	0.12723	95.6	90.6	1.73	1.06		101.00	0.176	0.050	0.85	
43.570	11.4428	0.03234	0.4337356	6	16.9	8.5	0.286	0.5	0.12743	105.2	100.2	1.67	1.01		106.68	0.193	0.050	0.93	
43.610	13.5988	0.0445157	0.4343021	6	16.9	7.7	0.331	0.5	0.12783	124.1	119.1	1.63	1.00		124.12	0.258	0.049	1.25	
43.630	17.8443	0.0875449	0.4090365	6	27.0	7.5	0.495	0.5	0.12803	161.3	156.3	1.61	1.00		161.32	0.470	0.049	2.28	
43.650	20.0397	0.1902748	0.1935424	6	34.8	10.8	0.967	0.5	0.12823	178.7	173.7	1.76	1.08		192.87	0.747	0.049	3.62	
43.670	20.3018	0.1611494	0.441185	6	34.0	9.2	0.799	0.5	0.12843	183.0	178.0	1.70	1.04		189.68	0.715	0.049	3.46	
43.690	16.3228	0.1441883	0.4350669	6	28.7	11.8	0.890	0.5	0.12863	147.8	142.8	1.80	1.11		163.67	0.488	0.049	2.36	
43.710	16.3228	0.3076642	0.4535062	6	34.2	19.6	1.898	0.5	0.12883	147.8	142.8	1.80	1.11		163.67	0.488	0.049	2.36	
43.730	9.3853	0.1902998	0.4397404	5	21.0	28.8	0.254	0.5	0.12903	85.5	81.5	2.23	1.73		149.89	0.393	0.049	1.91	
43.750	9.2911	0.2862064	0.4039097	5	22.5	36.9	3.135	0.5	0.12923	85.3	80.3	2.16	1.57		184.15	0.661	0.049	3.20	
43.770	12.6426	0.2766502	0.4103394	5	27.9	25.3	2.216	0.5	0.12943	114.7	109.7	2.16	1.57		180.18	0.624	0.049	3.03	
43.790	13.5629	0.2598642	0.4202814	5	28.9	22.3	1.937	0.5	0.12963	122.8	117.8	1.937	2.09		177.55	0.601	0.049	2.91	
43.810	14.0282	0.2456236	0.4279857	5	29.3	20.7	1.769	0.5	0.12983	126.9	121.9	1.937	2.06		175.25	0.581	0.049	2.82	
43.830	14.6347	0.2494573	0.434727	6	30.3	19.8	1.720	0.5	0.13003	132.2	127.2	1.720	2.04		178.27	0.607	0.049	2.95	
43.850	14.9879	0.1639325	0.4408168	6	28.1	14.5	1.103	0.5	0.13023	135.2	130.2	1.103	1.89		160.06	0.461	0.049	2.24	
43.910	14.2614	0.0505957	0.5017715	6	21.2	7.8	0.356	0.5	0.13083	129.1	124.1	1.63	1.00		129.07	0.280	0.049	1.36	
43.930	14.3376	0.0664623	0.4364831	6	22.5	9.0	0.468	0.5	0.13103	129.1	124.1	1.63	1.00		132.96	0.299	0.049	1.45	
43.950	14.1089	0.0698458	0.4358033	6	22.5	9.5	0.500	0.5	0.13123	127.0	122.0	1.71	1.04		132.67	0.297	0.049	1.44	
43.970	14.3087	0.0753932	0.4396838	6	23.0	9.8	0.532	0.5	0.13143	128.6	123.7	1.72	1.05		135.28	0.310	0.049	1.51	
43.990	15.073	0.0779198	0.4384658	6	24.0	9.2	0.522	0.5	0.13163	135.2	130.2	1.70	1.04		140.07	0.336	0.049	1.63	
44.010	15.3955	0.0834109	0.4379277	6	24.7	9.3	0.547	0.5	0.13183	137.9	132.9	1.70	1.04		143.26	0.353	0.049	1.72	
44.030	15.6339	0.0891897	0.4350952	6	25.3	9.5	0.576	0.5	0.13203	139.8	134.9	1.71	1.04		146.02	0.370	0.049	1.80	
44.050	15.754	0.092582	0.4317529	6	26.0	10.0	0.629	0.5	0.13223	140.8	135.8	1.73	1.06		148.91	0.387	0.049	1.88	
44.070	15.8065	0.0931831	0.4297985	6	26.0	10.0	0.643	0.5	0.13243	141.1	136.1	1.73	1.06		149.11	0.388	0.049	1.89	
44.090	15.6667	0.0997904	0.434472	6	26.0	10.2	0.643	0.5	0.13263	139.7	134.7	1.74	1.06		148.64	0.385	0.049	1.88	
44.110	15.2377	0.0917539	0.4255781	6	25.1	10.1	0.608	0.5	0.13283	135.9	130.9	1.73	1.06		144.22	0.359	0.049	1.75	
44.130	15.3694	0.0901279	0.4143332	6	25.1	9.9	0.592	0.5	0.13303	137.0	132.0	1.73	1.05		144.53	0.361	0.049	1.76	
44.150	15.5191	0.0741111	0.4303083	6	24.3	8.7	0.482	0.5	0.13323	138.2	133.2	1.67	1.02		140.82	0.340	0.049	1.66	
44.190	17.3236	0.0738797	0.4741266	6	26.0	7.3	0.429	0.5	0.13363	154.0	149.0	1.60	1.00		153.96	0.419	0.049	2.04	
44.210	18.4814	0.0679883	0.4396555	6	26.7	6.3	0.371	0.5	0.13383	163.6	158.6	1.55	1.00		163.56	0.487	0.049	2.37	
44.230	18.8672	0.066361	0.4376161	6	26.7	6.0	0.354	0.5	0.13403	166.9	161.9	1.53	1.00		166.92	0.513	0.049	2.50	
44.250	18.5883	0.070565	0.4280423	6	26.9	6.4	0.383	0.5	0.13423	164.1	159.2	1.56	1.00		164.14	0.491	0.049	2.40	

CPT Verileri														L BÖLGESİ									
Derinlik m	qc	Uç Koni	Uç Direnci	fs	Sürtünme Katsayısı	Boşluk Suyu Basıncı	Alan No.	Nc	Fc	n	σ'_{vo} [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı			
44.270	18.3998	0.070565	0.4280423	6	26.7	6.5	0.13443	162.4	157.4	0.387	1.56	1.00	162.39	0.478	0.049	2.33			55	2.47			
44.290	18.6488	0.061591	0.4301667	6	27.8	7.0	0.13463	164.4	159.5	0.441	1.59	1.00	164.43	0.493	0.049	2.41			0.049	2.41			
44.310	20.1887	0.0780574	0.4324327	6	28.9	6.0	0.13483	172.6	172.6	0.389	1.53	1.00	177.59	0.601	0.049	2.93			0.049	2.93			
44.330	20.3114	0.0768379	0.4294869	6	28.9	5.9	0.13503	178.5	173.5	0.381	1.52	1.00	178.49	0.609	0.049	2.97			0.049	2.97			
44.350	19.7119	0.0799212	0.4398821	6	28.7	6.3	0.13523	173.3	168.3	0.408	1.55	1.00	173.29	0.564	0.049	2.75			0.049	2.75			
44.370	19.4665	0.0848682	0.4299684	6	28.9	6.7	0.13543	171.0	166.0	0.439	1.57	1.00	170.97	0.545	0.049	2.66			0.049	2.66			
44.390	18.9223	0.0926795	0.42487	6	29.0	7.4	0.13563	166.1	161.2	0.494	1.61	1.00	166.13	0.506	0.049	2.47			0.049	2.47			
44.410	17.6514	0.0916413	0.4168541	6	27.7	8.3	0.13583	155.0	150.1	0.524	1.65	1.01	155.89	0.432	0.049	2.11			0.049	2.11			
44.430	16.6891	0.0961881	0.4140783	6	27.0	9.3	0.13603	146.6	141.7	0.582	1.70	1.04	152.20	0.408	0.049	1.99			0.049	1.99			
44.470	16.47	0.0803214	0.445377	6	25.8	8.5	0.13643	144.8	139.8	0.492	1.66	1.01	146.72	0.374	0.049	1.83			0.049	1.83			
44.490	17.2343	0.0795584	0.4186386	6	26.5	7.9	0.13663	151.0	146.0	0.466	1.64	1.00	151.02	0.400	0.049	1.96			0.049	1.96			
44.510	18.5323	0.0763563	0.4320361	6	27.5	6.9	0.13683	162.1	157.1	0.415	1.58	1.00	162.12	0.476	0.049	2.33			0.049	2.33			
44.530	18.8837	0.0682747	0.3883028	6	26.9	6.2	0.13703	164.6	159.7	0.355	1.54	1.00	164.63	0.495	0.049	2.42			0.049	2.42			
44.550	18.7338	0.0610588	0.3509709	6	26.3	6.0	0.13723	162.9	157.9	0.330	1.53	1.00	162.92	0.482	0.049	2.36			0.049	2.36			
44.570	18.2614	0.0493636	0.3508293	6	24.8	5.5	0.13743	156.8	153.8	0.274	1.50	1.00	156.77	0.452	0.049	2.21			0.049	2.21			
44.590	17.7102	0.0400339	0.3555595	6	23.9	5.5	0.13763	154.0	149.0	0.252	1.50	1.00	153.99	0.420	0.049	2.05			0.049	2.05			
44.610	17.1361	0.0467432	0.3800604	6	23.7	6.0	0.13783	148.2	144.2	0.276	1.53	1.00	149.20	0.389	0.049	1.90			0.049	1.90			
44.630	16.7803	0.0405891	0.3998876	6	22.9	5.8	0.13803	146.2	141.3	0.245	1.52	1.00	146.23	0.371	0.049	1.81			0.049	1.81			
44.650	16.25	0.0408943	0.4274759	6	22.5	6.1	0.13823	141.8	136.9	0.254	1.54	1.00	141.85	0.345	0.049	1.69			0.049	1.69			
44.670	15.8433	0.0405954	0.4090648	6	22.1	6.3	0.13843	138.1	133.2	0.259	1.55	1.00	138.13	0.325	0.049	1.59			0.049	1.59			
44.690	15.2798	0.0424091	0.4168258	6	21.8	6.8	0.13863	133.3	128.3	0.281	1.58	1.00	133.31	0.300	0.049	1.47			0.049	1.47			
44.730	14.1825	0.0454673	0.4182703	6	21.1	8.0	0.13903	123.8	118.9	0.324	1.64	1.00	123.83	0.257	0.049	1.26			0.049	1.26			
44.750	14.5252	0.044598	0.4573017	6	21.4	7.6	0.13923	127.0	122.0	0.310	1.62	1.00	126.97	0.270	0.049	1.32			0.049	1.32			
44.770	15.4472	0.0608399	0.4512119	6	23.6	8.1	0.13943	134.6	129.7	0.397	1.65	1.00	134.84	0.308	0.049	1.51			0.049	1.51			
44.790	17.6646	0.0609149	0.4441308	6	25.6	6.6	0.13963	153.2	148.3	0.348	1.57	1.00	153.25	0.415	0.049	2.03			0.049	2.03			
44.810	18.6593	0.0572313	0.4502206	6	26.2	5.9	0.13983	161.6	156.6	0.309	1.52	1.00	161.60	0.472	0.049	2.31			0.049	2.31			
44.830	19.4402	0.050652	0.4433377	6	26.2	5.1	0.14003	166.0	163.1	0.263	1.48	1.00	168.03	0.521	0.049	2.55			0.049	2.55			
44.850	19.8846	0.0351918	0.4435359	6	24.9	4.1	0.14023	171.7	166.7	0.178	1.40	1.00	171.66	0.590	0.049	2.70			0.049	2.70			
44.870	20.3	0.0340911	0.4494275	6	25.1	4.0	0.14043	175.1	170.1	0.169	1.39	1.00	175.10	0.579	0.049	2.64			0.049	2.64			
44.890	21.0722	0.0462491	0.4506738	6	27.0	4.3	0.14063	181.5	176.5	0.221	1.41	1.00	181.49	0.636	0.049	3.12			0.049	3.12			
44.910	22.4333	0.0509083	0.4439608	6	28.5	4.1	0.14083	192.8	187.8	0.228	1.40	1.00	192.78	0.746	0.049	3.66			0.049	3.66			
44.930	22.9302	0.0573689	0.4464817	6	28.6	4.2	0.14103	196.8	191.9	0.252	1.41	1.00	196.85	0.789	0.049	3.87			0.049	3.87			
44.950	22.7909	0.0637355	0.4429978	6	30.2	4.5	0.14123	195.5	190.5	0.281	1.43	1.00	195.51	0.775	0.049	3.80			0.049	3.80			
44.970	21.2711	0.0691578	0.4305632	6	29.5	5.3	0.14143	182.5	177.5	0.328	1.49	1.00	182.48	0.645	0.049	3.16			0.049	3.16			
44.990	20.79	0.0741987	0.4216126	6	29.6	5.8	0.14163	178.2	173.3	0.360	1.52	1.00	178.24	0.607	0.049	2.97			0.049	2.97			
45.030	19.8162	0.0710153	0.4560271	6	28.6	6.1	0.14203	170.1	165.1	0.361	1.54	1.00	170.10	0.538	0.049	2.64			0.049	2.64			
45.050	20.2685	0.0748386	0.4482662	6	29.3	6.1	0.14223	173.7	168.7	0.372	1.54	1.00	173.71	0.567	0.049	2.78			0.049	2.78			
45.070	20.3272	0.0777135	0.4474447	6	29.6	6.2	0.14243	174.1	169.1	0.385	1.55	1.00	174.07	0.571	0.049	2.80			0.049	2.80			
45.090	20.6471	0.0777135	0.4474447	6	29.9	6.1	0.14263	176.6	171.7	0.379	1.54	1.00	176.63	0.592	0.049	2.91			0.049	2.91			
45.110	21.1721	0.0777635	0.4463967	6	30.3	5.8	0.14283	180.9	175.9	0.370	1.52	1.00	180.89	0.630	0.049	3.09			0.049	3.09			
45.130	21.8224	0.0776009	0.4479263	6	30.9	5.5	0.14303	186.2	181.2	0.358	1.50	1.00	186.21	0.681	0.049	3.34			0.049	3.34			

CPT Verileri														L BÖLGESİ			
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															55	2.47	
45.150	22.421	0.0821101	0.4423463	6	31.8	5.5	0.5	0.14323	191.0	186.1	0.369	1.50	1.00	191.04	0.728	3.57	
45.170	22.7733	0.1024609	0.4482378	6	33.8	6.2	0.5	0.14343	193.9	188.9	0.453	1.54	1.00	193.90	0.758	3.72	
45.190	23.2563	0.0975265	0.4324327	6	33.9	5.8	0.5	0.14363	197.7	192.7	0.422	1.52	1.00	197.66	0.798	3.92	
45.210	23.9066	0.0841427	0.4697363	6	33.3	5.0	0.5	0.14383	203.3	198.3	0.354	1.47	1.00	203.26	0.861	4.00	
45.230	24.1756	0.0685512	0.4053826	6	31.9	4.4	0.5	0.14403	204.8	199.9	0.286	1.42	1.00	204.82	0.879	4.00	
45.250	27.2852	0.0687701	0.4203947	6	34.2	3.5	0.5	0.14423	230.7	225.7	0.254	1.35	1.00	230.70	1.222	4.00	
45.270	28.9136	0.0617092	0.4394005	7	34.4	3.0	0.5	0.14443	244.2	239.3	0.215	1.29	1.00	244.24	1.435	4.00	
45.290	31.1749	0.0926983	0.4055809	6	39.5	3.4	0.5	0.14463	262.6	257.6	0.299	1.33	1.00	262.60	1.764	4.00	
45.310	30.8944	0.0666625	0.3993495	7	36.3	2.7	0.5	0.14483	260.0	255.1	0.217	1.27	1.00	260.03	1.715	4.00	
45.330	27.9031	0.0562619	0.3715346	7	33.2	3.0	0.5	0.14503	234.8	229.8	0.203	1.30	1.00	234.78	1.284	4.00	
45.350	27.1906	0.056257	0.3063029	6	32.9	3.3	0.5	0.14523	228.2	223.2	0.217	1.32	1.00	228.17	1.185	4.00	
45.370	26.1651	0.0659557	0.279791	6	33.1	3.8	0.5	0.14543	219.3	214.3	0.255	1.37	1.00	219.29	1.061	4.00	
45.390	23.0669	0.072474	0.3273765	6	31.5	5.0	0.5	0.14563	193.7	188.8	0.317	1.47	1.00	193.73	0.756	3.72	
45.410	22.4079	0.0688689	0.3526421	6	30.7	5.1	0.5	0.14603	188.3	183.4	0.311	1.47	1.00	188.35	0.701	3.45	
45.430	23.3991	0.0748866	0.3930331	6	32.1	5.0	0.5	0.14623	196.8	191.8	0.299	1.46	1.00	196.75	0.788	3.87	
45.450	25.8303	0.0767003	0.4232555	6	34.2	4.2	0.5	0.14643	217.0	212.0	0.293	1.41	1.00	216.96	1.030	4.00	
45.470	31.1398	0.0767003	0.4232555	7	37.9	3.0	0.5	0.14663	260.7	255.7	0.248	1.30	1.00	260.66	1.727	4.00	
45.490	25.2729	0.032634	0.2262291	7	28.7	2.9	0.5	0.14683	210.4	205.4	0.132	1.29	1.00	210.43	0.947	4.00	
45.510	35.692	0.107133	0.575019	7	36.1	1.7	0.5	0.14723	298.9	293.9	0.030	1.13	1.00	298.89	2.563	4.00	
45.530	45.5695	0.0231152	0.5585341	7	39.3	0.9	0.5	0.14743	379.9	374.9	0.051	0.98	1.00	379.90	5.179	4.00	
45.550	53.5722	0.0902404	0.5306626	7	50.4	1.1	0.5	0.14763	445.3	440.3	0.169	1.01	1.00	445.28	8.291	4.00	
45.570	53.6914	0.2335944	0.4908665	7	66.6	2.6	0.5	0.14783	445.6	440.7	0.436	1.25	1.00	445.63	8.310	4.00	
45.590	51.7247	0.3203349	0.4635698	6	76.0	3.8	0.5	0.14803	426.9	424.0	0.620	1.37	1.00	428.94	7.420	4.00	
45.610	41.679	0.3485411	0.3117698	6	68.5	6.1	0.5	0.14823	344.9	339.9	0.842	1.54	1.00	344.89	3.895	4.00	
45.630	37.6412	0.2984394	0.1065291	6	61.3	6.4	0.5	0.14843	309.8	304.9	0.803	1.55	1.00	309.83	2.846	4.00	
45.650	23.1861	0.6070418	-0.0026908	5	51.9	22.2	0.5	0.14863	190.2	185.2	2.689	2.09	1.44	274.28	1.999	4.00	
45.670	20.052	0.6974868	0.0158052	5	47.9	29.1	0.5	0.14883	164.5	159.5	3.584	2.23	1.75	287.52	2.291	4.00	
45.690	18.4902	0.6987332	0.011599	5	45.0	32.1	0.5	0.14903	151.6	146.6	3.905	2.28	1.90	287.59	2.292	4.00	
45.710	18.2246	0.6668809	0.0412407	5	44.1	31.6	0.5	0.14923	149.5	144.6	3.775	2.28	1.87	280.23	2.127	4.00	
45.730	17.7067	0.5446822	0.0509277	5	41.5	28.8	0.5	0.14943	145.3	140.3	3.176	2.23	1.73	251.58	1.561	4.00	
45.750	15.2342	0.0776196	0.3442013	6	25.1	10.3	0.5	0.14963	127.3	122.3	0.518	1.74	1.07	135.72	0.312	1.54	
45.770	14.2587	0.0593014	0.3140639	6	22.8	9.9	0.5	0.15003	114.9	113.9	0.425	1.72	1.05	125.37	0.263	1.30	
45.790	14.087	0.0383627	0.3187375	6	21.0	8.1	0.5	0.15043	117.5	112.5	0.278	1.65	1.00	117.63	0.231	1.14	
45.810	13.7364	0.0387879	0.3199271	6	20.7	8.5	0.5	0.15063	114.5	109.6	0.288	1.66	1.01	116.09	0.225	1.11	
45.830	14.243	0.039626	0.3402076	6	21.3	8.1	0.5	0.15083	118.7	113.8	0.284	1.65	1.00	118.87	0.236	1.16	
45.850	15.1203	0.0524031	0.37026	6	23.2	8.5	0.5	0.15103	126.0	121.1	0.352	1.66	1.01	127.68	0.274	1.35	
45.870	16.3534	0.056756	0.4177038	6	24.8	7.8	0.5	0.15123	136.4	131.4	0.351	1.63	1.00	136.38	0.316	1.56	
45.890	18.0441	0.0560367	0.450957	6	26.4	6.7	0.5	0.15143	150.3	145.3	0.313	1.57	1.00	150.30	0.366	1.95	
45.910	20.2597	0.0553468	0.4645812	6	28.2	5.5	0.5	0.15163	168.3	163.3	0.275	1.50	1.00	168.30	0.523	2.58	

CPT Verileri													L BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
46.010	22.0275	0.0548608	0.456537	6	29.6	4.8	0.5	0.15183	182.5	177.5	0.249	1.45	1.00	182.47	0.645	0.048	2.47
46.030	23.4236	0.0511981	0.4554606	6	30.3	4.1	0.5	0.15203	193.7	188.7	0.220	1.40	1.00	183.67	0.756	0.048	3.18
46.050	23.1186	0.0648363	0.4441308	6	31.5	4.8	0.5	0.15223	191.0	186.0	0.283	1.46	1.00	190.97	0.728	0.048	3.73
46.090	21.8452	0.064017	0.4640147	6	30.4	5.3	0.5	0.15263	180.6	175.6	0.295	1.49	1.00	180.58	0.628	0.048	3.59
46.110	21.7891	0.0676881	0.4486627	6	30.7	5.5	0.5	0.15283	179.9	174.9	0.313	1.50	1.00	179.88	0.621	0.048	3.10
46.130	21.5726	0.0673817	0.4381826	6	30.5	5.6	0.5	0.15303	177.9	173.0	0.315	1.51	1.00	177.93	0.604	0.048	3.06
46.150	20.5034	0.0659933	0.4338206	6	29.5	6.0	0.5	0.15323	169.1	164.2	0.325	1.53	1.00	169.14	0.530	0.048	2.98
46.170	19.6874	0.0685137	0.4298268	6	29.0	6.6	0.5	0.15343	162.4	157.4	0.351	1.57	1.00	162.41	0.478	0.048	2.62
46.190	19.0783	0.0680446	0.4258897	6	28.5	6.9	0.5	0.15363	157.4	152.4	0.360	1.58	1.00	157.36	0.442	0.048	2.36
46.210	17.4691	0.0598955	0.4180437	6	26.3	7.4	0.5	0.15383	144.2	139.3	0.347	1.61	1.00	144.22	0.359	0.048	2.18
46.230	16.0476	0.0596829	0.4168327	6	24.9	8.4	0.5	0.15403	132.7	127.7	0.377	1.66	1.00	134.12	0.304	0.048	1.77
46.250	14.8407	0.0647675	0.4288638	6	24.1	9.9	0.5	0.15423	123.0	118.0	0.442	1.73	1.00	129.68	0.283	0.048	1.50
46.270	14.1825	0.056781	0.4425446	6	22.9	9.9	0.5	0.15443	117.7	112.7	0.405	1.72	1.00	124.05	0.258	0.048	1.40
46.290	14.4963	0.0542356	0.4601059	6	23.0	9.3	0.5	0.15463	120.3	115.3	0.378	1.70	1.00	124.94	0.261	0.048	1.27
46.310	16.2824	0.0671003	0.4621452	6	25.8	8.8	0.5	0.15483	134.6	129.6	0.416	1.68	1.00	137.59	0.322	0.048	1.29
46.330	17.5804	0.0693577	0.448776	6	27.2	8.0	0.5	0.15503	144.8	139.8	0.396	1.64	1.00	144.80	0.362	0.048	1.59
46.370	19.6874	0.068695	0.4250399	6	29.2	6.7	0.5	0.15543	161.3	156.4	0.352	1.57	1.00	161.32	0.470	0.048	1.79
46.390	20.9907	0.0693392	0.3901723	6	30.4	6.1	0.5	0.15563	171.4	166.4	0.334	1.54	1.00	171.39	0.548	0.048	2.32
46.410	22.1309	0.0721786	0.4155512	6	31.7	5.7	0.5	0.15583	180.6	175.6	0.329	1.51	1.00	180.61	0.628	0.048	2.71
46.430	22.471	0.0730979	0.4360866	6	32.1	5.6	0.5	0.15603	183.4	178.4	0.328	1.51	1.00	183.39	0.654	0.048	3.10
46.450	22.3973	0.0848056	0.4435076	6	33.1	6.2	0.5	0.15623	182.7	177.8	0.362	1.54	1.00	182.74	0.648	0.048	3.23
46.470	21.9504	0.0931924	0.448994	6	33.4	6.8	0.5	0.15643	179.1	174.1	0.428	1.58	1.00	179.10	0.614	0.048	3.20
46.490	21.5227	0.0961881	0.4520333	6	33.2	7.1	0.5	0.15663	175.6	170.6	0.450	1.60	1.00	175.58	0.583	0.048	3.04
46.510	21.0371	0.1312298	0.4408451	6	35.1	9.0	0.5	0.15683	171.5	166.5	0.629	1.69	1.00	176.63	0.593	0.048	2.86
46.530	19.2544	0.1239813	0.4419498	6	32.8	10.0	0.5	0.15703	157.2	152.2	0.650	1.73	1.00	166.11	0.506	0.048	2.53
46.550	17.5787	0.1160011	0.3957239	6	30.4	11.0	0.5	0.15723	143.3	138.4	0.669	1.77	1.00	155.48	0.430	0.048	2.12
46.570	14.8109	0.066144	0.3749053	6	25.6	11.8	0.5	0.15743	121.0	116.1	0.592	1.80	1.11	134.08	0.304	0.048	1.50
46.590	12.477	0.0613152	0.3619609	6	21.4	12.6	0.5	0.15763	102.3	97.3	0.502	1.83	1.13	115.42	0.223	0.048	1.10
46.610	11.0159	0.0497784	0.3674276	6	19.1	13.6	0.5	0.15783	90.6	85.6	0.463	1.86	1.15	104.54	0.186	0.048	0.92
46.630	9.3875	0.0561243	0.4649211	6	17.6	17.5	0.5	0.15803	78.4	73.4	0.608	1.98	1.27	99.67	0.172	0.048	0.85
46.650	9.9703	0.067488	0.4449522	6	18.9	17.8	0.5	0.15823	82.8	77.8	0.699	1.98	1.28	105.99	0.191	0.047	0.94
46.670	10.2999	0.0660036	0.4602758	6	19.3	16.8	0.5	0.15843	85.5	80.5	0.651	1.96	1.25	106.85	0.193	0.047	0.96
46.690	10.8319	0.0633665	0.4641946	6	19.8	15.5	0.5	0.15863	89.7	84.7	0.594	1.92	1.21	108.32	0.198	0.047	0.98
46.710	11.0501	0.0553741	0.4614088	6	19.6	14.2	0.5	0.15883	91.3	86.4	0.513	1.88	1.17	106.95	0.194	0.047	0.96
46.730	10.9195	0.0520716	0.4594544	6	19.2	14.0	0.5	0.15903	90.2	85.3	0.494	1.87	1.16	105.08	0.188	0.047	0.93
46.750	10.9712	0.0465036	0.4596527	6	19.0	13.2	0.5	0.15923	90.6	85.6	0.431	1.85	1.14	103.58	0.183	0.046	0.91
46.770	11.427	0.0471059	0.4582364	6	19.5	12.6	0.5	0.15943	94.1	89.2	0.418	1.83	1.13	106.04	0.191	0.046	0.84
46.790	11.6601	0.0472935	0.4627117	6	19.8	12.2	0.5	0.15963	96.0	91.0	0.411	1.82	1.12	107.29	0.195	0.046	0.96
46.810	12.0212	0.0485693	0.4624002	6	20.3	11.9	0.5	0.15983	98.7	93.8	0.410	1.80	1.11	109.52	0.202	0.046	1.00
46.830	12.448	0.0474374	0.4679518	6	20.7	11.2	0.5	0.16003	102.1	97.1	0.366	1.78	1.09	111.40	0.209	0.045	1.03
46.850	12.8503	0.0471622	0.4657425	6	21.1	10.7	0.5	0.16023	105.2	100.2	0.372	1.76	1.08	113.37	0.216	0.045	1.07

CPT Verileri													L BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v_0$	qc1N	Q	F	Ic	Kc	(qc1N) _{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Koni Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı						[MPa]			[%]					55	2.47
46.870	12.9494	0.0419775	0.464043	6	20.8	10.1	0.5	0.16043	105.9	100.9	0.328	1.73	1.05	112.25	0.212	0.045	1.05
46.890	13.342	0.0429344	0.4634765	6	21.3	9.8	0.5	0.16063	108.9	104.0	0.326	1.72	1.02	114.52	0.220	0.045	1.09
46.930	14.0353	0.037681	0.4647511	6	21.6	8.6	0.5	0.16103	114.3	109.3	0.272	1.67	1.02	116.12	0.226	0.045	1.12
46.950	14.2701	0.0404891	0.4624851	6	22.0	8.7	0.5	0.16123	116.0	111.1	0.287	1.67	1.02	118.19	0.234	0.045	1.16
46.970	14.5664	0.0418178	0.459766	6	23.0	9.1	0.5	0.16143	118.3	113.3	0.335	1.69	1.03	122.14	0.249	0.045	1.24
46.990	15.5383	0.0439476	0.4699062	6	23.6	7.9	0.5	0.16163	125.9	120.9	0.286	1.64	1.00	125.92	0.266	0.045	1.32
47.010	16.6766	0.0457988	0.4564803	6	24.8	7.3	0.5	0.16183	134.7	129.7	0.278	1.60	1.00	134.70	0.307	0.045	1.52
47.030	17.9897	0.0507458	0.4321211	6	26.5	6.8	0.5	0.16203	144.7	139.8	0.285	1.58	1.00	144.72	0.362	0.045	1.79
47.050	18.8329	0.0498202	0.426966	6	27.2	6.3	0.5	0.16223	151.2	146.2	0.267	1.55	1.00	151.21	0.402	0.045	1.99
47.070	18.1642	0.0482254	0.4024368	6	26.4	6.6	0.5	0.16243	145.7	140.7	0.269	1.57	1.00	145.68	0.368	0.045	1.82
47.090	16.7163	0.0473435	0.4090082	6	25.0	7.5	0.5	0.16263	134.3	129.3	0.287	1.61	1.00	134.29	0.305	0.045	1.51
47.110	15.6567	0.0513712	0.4150413	6	24.4	8.6	0.5	0.16283	125.9	121.0	0.333	1.67	1.02	127.91	0.275	0.045	1.36
47.130	15.3639	0.0491447	0.4228873	6	23.9	8.6	0.5	0.16303	123.6	118.7	0.324	1.65	1.02	125.81	0.265	0.044	1.31
47.150	16.03	0.0497889	0.4500223	6	24.7	8.1	0.5	0.16323	129.0	124.0	0.314	1.65	1.00	129.17	0.280	0.044	1.39
47.170	17.7426	0.0564995	0.4774122	6	26.9	7.4	0.5	0.16343	142.5	137.6	0.321	1.61	1.00	142.52	0.349	0.044	1.73
47.190	17.9085	0.0534788	0.5166702	6	26.8	7.1	0.5	0.16363	144.0	139.1	0.301	1.59	1.00	144.02	0.358	0.044	1.77
47.210	20.9889	0.0570562	0.4706993	6	29.9	5.7	0.5	0.16383	167.7	162.7	0.274	1.52	1.00	167.66	0.518	0.044	2.57
47.230	21.7461	0.0546984	0.4649211	6	30.3	5.3	0.5	0.16403	173.4	168.5	0.254	1.49	1.00	173.42	0.565	0.044	2.80
47.250	21.7383	0.0710091	0.460814	6	31.9	6.1	0.5	0.16423	173.2	168.3	0.329	1.54	1.00	173.22	0.563	0.044	2.79
47.270	21.0906	0.0863319	0.4821708	6	32.7	7.2	0.5	0.16443	168.2	163.3	0.415	1.60	1.00	168.23	0.523	0.044	2.59
47.290	20.1046	0.0705212	0.473815	6	30.4	6.9	0.5	0.16463	160.4	155.4	0.354	1.59	1.00	160.38	0.464	0.044	2.30
47.310	19.2877	0.0697895	0.4545542	6	29.6	7.4	0.5	0.16483	153.8	148.8	0.365	1.61	1.00	153.77	0.418	0.044	2.07
47.330	19.4341	0.0737359	0.4573867	6	30.1	7.5	0.5	0.16503	154.8	149.9	0.383	1.62	1.00	154.84	0.425	0.044	2.11
47.350	21.0617	0.0773382	0.4703027	6	31.9	6.8	0.5	0.16523	167.5	162.5	0.370	1.58	1.00	167.51	0.517	0.044	2.57
47.370	23.6638	0.0808843	0.4667338	6	34.6	5.8	0.5	0.16543	187.6	182.6	0.344	1.52	1.00	187.61	0.694	0.044	3.45
47.390	26.053	0.085356	0.4746081	6	37.1	5.1	0.5	0.16563	206.1	201.2	0.330	1.47	1.00	206.12	0.894	0.044	4.00
47.410	26.762	0.096532	0.4587746	6	38.7	5.3	0.5	0.16583	211.4	206.4	0.363	1.49	1.00	211.38	0.958	0.044	4.00
47.430	25.4614	0.1121736	0.4355767	6	38.9	6.3	0.5	0.16603	201.0	196.0	0.444	1.55	1.00	200.98	0.835	0.044	4.00
47.450	23.5814	0.1138747	0.3919567	6	37.2	7.3	0.5	0.16623	185.9	181.0	0.468	1.60	1.00	185.94	0.678	0.044	3.37
47.490	19.683	0.0902592	0.4393156	6	31.7	8.4	0.5	0.16663	155.9	150.9	0.463	1.66	1.01	157.35	0.442	0.044	2.20
47.510	20.3736	0.0659057	0.443451	6	30.4	6.6	0.5	0.16683	161.2	156.2	0.327	1.57	1.00	161.17	0.469	0.044	2.33
47.530	17.7989	0.0862816	0.4380693	6	29.4	9.5	0.5	0.16703	141.1	136.1	0.490	1.71	1.04	147.39	0.378	0.044	1.88
47.550	16.997	0.1087901	0.4025785	6	29.6	12.0	0.5	0.16723	132.2	127.3	0.661	1.81	1.11	146.97	0.375	0.044	1.86
47.570	15.6602	0.0957592	0.4225474	6	27.9	12.5	0.5	0.16743	124.3	119.3	0.646	1.82	1.12	139.78	0.334	0.044	1.66
47.590	14.7452	0.0933365	0.4301384	6	26.5	13.1	0.5	0.16763	117.2	112.2	0.646	1.85	1.14	133.84	0.303	0.044	1.51
47.610	14.4305	0.0865067	0.4460002	6	25.7	12.9	0.5	0.16783	114.8	109.9	0.608	1.84	1.14	130.53	0.287	0.044	1.36
47.630	14.1729	0.0794709	0.4543843	6	25.1	12.7	0.5	0.16803	112.8	107.9	0.568	1.83	1.13	127.49	0.273	0.044	1.31
47.650	14.1956	0.0711904	0.4571035	6	24.6	11.9	0.5	0.16823	113.0	108.0	0.508	1.81	1.11	125.45	0.264	0.044	1.31
47.670	14.363	0.0645736	0.4650344	6	24.4	11.2	0.5	0.16843	114.3	109.3	0.455	1.78	1.09	124.56	0.260	0.044	1.29
47.690	14.711	0.0587323	0.4691981	6	24.3	10.3	0.5	0.16863	116.9	111.9	0.404	1.74	1.07	124.71	0.260	0.044	1.29
47.710	15.6234	0.0455361	0.4809811	6	24.2	8.4	0.5	0.16883	123.9	119.0	0.295	1.66	1.01	125.08	0.262	0.044	1.30

CPT Verileri													L BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Kont Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı														55	2.47
48.590	23.0792	0.1149316	0.4804713	6	37.7	8.0	0.5	0.17763	176.8	171.8	0.502	1.64	1.00	176.36	0.590	0.044	2.95
48.610	22.2922	0.1273398	0.4711525	6	37.7	9.0	0.5	0.17783	170.7	165.7	0.576	1.69	1.03	175.94	0.587	0.044	2.84
48.630	21.8881	0.1277713	0.472852	6	37.3	9.3	0.5	0.17803	167.6	162.6	0.589	1.70	1.04	174.13	0.571	0.044	2.86
48.650	21.3947	0.1255138	0.471804	6	36.6	9.6	0.5	0.17823	163.8	158.8	0.592	1.71	1.05	171.27	0.547	0.044	2.74
48.670	20.7093	0.1174333	0.4705293	6	35.4	9.6	0.5	0.17843	158.5	153.6	0.572	1.72	1.05	166.20	0.507	0.044	2.54
48.690	19.5963	0.1167516	0.4626268	6	34.1	10.4	0.5	0.17863	150.1	145.1	0.602	1.75	1.07	160.65	0.466	0.044	2.33
48.710	18.314	0.1130241	0.4519484	6	32.4	11.3	0.5	0.17883	140.3	135.4	0.624	1.78	1.09	153.52	0.416	0.044	2.09
48.730	17.0134	0.1101285	0.4426579	6	30.7	12.4	0.5	0.17903	130.5	125.5	0.656	1.82	1.12	146.49	0.372	0.044	1.87
48.750	15.7592	0.1038994	0.4407318	6	28.8	13.4	0.5	0.17923	121.0	116.0	0.669	1.85	1.15	139.04	0.330	0.044	1.65
48.770	13.7811	0.1155695	0.4240769	6	26.9	17.1	0.5	0.17943	106.0	101.1	0.854	1.96	1.26	133.28	0.300	0.044	1.51
48.790	11.1649	0.1188092	0.3771429	5	23.3	22.8	0.5	0.17963	86.1	81.1	1.093	2.11	1.46	126.14	0.267	0.044	1.34
48.810	9.4272	0.1306857	0.3698352	5	20.6	30.6	0.5	0.17983	70.8	65.8	1.480	2.26	1.82	128.92	0.279	0.044	1.40
48.830	8.1307	0.1731135	0.4625418	5	20.1	39.6	0.5	0.18003	64.0	59.1	2.184	2.40	2.32	148.48	0.384	0.044	1.93
48.850	7.6408	0.17923	0.2921123	5	19.1	44.2	0.5	0.18023	59.1	54.1	2.467	2.46	2.60	153.49	0.416	0.044	2.09
48.870	8.9361	0.1663266	0.364894	5	21.6	37.5	0.5	0.18043	69.4	64.4	2.156	2.37	2.19	152.14	0.408	0.044	2.05
48.890	16.0248	0.2034647	0.4063173	5	27.5	27.3	0.5	0.18063	93.9	88.9	1.703	2.20	1.66	155.79	0.432	0.044	2.17
48.910	12.2123	0.2197754	0.3098152	5	33.7	20.5	0.5	0.18083	121.5	116.5	1.403	2.05	1.38	167.21	0.515	0.044	2.59
48.930	17.2281	0.2179679	0.1992923	6	35.3	18.8	0.5	0.18103	129.5	124.5	1.301	2.01	1.31	170.13	0.538	0.044	2.70
48.950	16.3561	0.2027142	0.1656993	6	33.4	19.3	0.5	0.18123	122.7	117.7	1.279	2.02	1.33	163.52	0.487	0.044	2.44
48.970	15.4183	0.1790111	0.1310016	6	31.2	19.5	0.5	0.18143	115.4	110.5	1.203	2.03	1.34	154.49	0.423	0.044	2.13
48.990	13.5953	0.1507051	0.1110044	5	27.6	20.9	0.5	0.18163	101.7	96.7	1.156	2.06	1.39	141.34	0.343	0.044	1.72
49.010	10.7819	0.1135432	0.1108344	5	22.2	24.2	0.5	0.18183	80.8	75.8	1.111	2.14	1.52	123.03	0.253	0.044	1.27
49.030	8.831	0.0924606	0.1154797	5	18.6	28.1	0.5	0.18203	66.3	61.3	1.117	2.21	1.70	112.52	0.212	0.044	1.07
49.050	8.1079	0.1773851	0.2605869	5	16.8	41.7	0.5	0.18223	62.0	57.0	2.305	2.43	2.44	151.29	0.402	0.044	2.02
49.070	11.7898	0.1693736	0.4078752	5	26.0	25.9	0.5	0.18243	90.3	85.3	1.470	2.17	1.60	144.29	0.359	0.044	1.81
49.090	9.5733	0.0691829	0.4370213	5	19.3	21.3	0.5	0.18263	74.1	69.1	0.741	2.07	1.40	104.07	0.185	0.044	0.93
49.110	9.8126	0.0700397	0.4413266	5	19.6	20.8	0.5	0.18283	75.8	70.9	0.731	2.06	1.39	105.05	0.188	0.043	0.95
49.130	20.2168	0.1495543	0.2093193	6	36.6	12.1	0.5	0.18303	151.0	146.0	0.757	1.81	1.11	168.10	0.522	0.043	2.63
49.150	22.2378	0.1354638	0.1432095	6	38.1	9.9	0.5	0.18323	165.3	160.4	0.624	1.73	1.06	174.55	0.575	0.043	2.89
49.170	22.3421	0.1349572	0.1162444	6	38.2	9.8	0.5	0.18343	160.8	160.8	0.620	1.72	1.05	174.75	0.576	0.043	2.90
49.190	21.5305	0.1320491	0.1235522	6	37.1	10.3	0.5	0.18363	159.8	154.8	0.629	1.74	1.07	170.31	0.539	0.043	2.72
49.210	21.1651	0.1189997	0.1343156	6	35.9	9.9	0.5	0.18383	157.1	152.1	0.577	1.73	1.06	165.78	0.504	0.043	2.54
49.230	21.0073	0.0993401	0.1486195	6	34.5	9.0	0.5	0.18403	156.0	151.0	0.485	1.69	1.03	160.51	0.465	0.043	2.34
49.250	21.0152	0.0764001	0.1690416	6	32.8	7.8	0.5	0.18423	156.1	151.1	0.373	1.63	1.00	156.07	0.434	0.043	2.19
49.270	20.8425	0.081641	0.201445	6	33.1	8.1	0.5	0.18443	155.0	150.0	0.401	1.65	1.00	155.17	0.427	0.043	2.15
49.290	20.3552	0.0942681	0.2157207	6	33.5	9.1	0.5	0.18463	151.4	146.4	0.474	1.69	1.03	156.49	0.436	0.043	2.20
49.310	19.7864	0.0979893	0.2360861	6	33.2	9.6	0.5	0.18483	147.3	142.3	0.507	1.72	1.05	154.82	0.425	0.043	2.14
49.330	18.9345	0.0933049	0.2529676	6	32.0	10.1	0.5	0.18503	141.1	136.1	0.504	1.74	1.06	149.76	0.392	0.043	1.98
49.350	17.9109	0.0921104	0.2653738	6	30.8	10.9	0.5	0.18523	133.6	128.6	0.526	1.77	1.08	144.62	0.361	0.043	1.82
49.370	17.1668	0.0844867	0.2823403	6	29.4	11.1	0.5	0.18543	128.1	123.2	0.504	1.77	1.09	139.30	0.331	0.043	1.67
49.390	17.2001	0.0884699	0.5055103	6	28.6	9.7	0.5	0.18563	130.0	125.0	0.402	1.72	1.05	136.47	0.316	0.043	1.60

CPT Verileri														L BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı	
															55	2.47	
49.410	17.8416	0.075487	0.4920278	6	29.8	9.7	0.5	0.18583	134.5	129.5	0.428	1.72	1.05	141.20	0.342	1.73	
49.430	17.5918	0.0762375	0.4865611	6	29.6	10.0	0.5	0.18603	128.5	127.6	0.438	1.73	1.06	140.16	0.336	1.70	
49.450	17.0712	0.0739485	0.4809528	6	28.9	10.3	0.5	0.18623	132.6	123.6	0.438	1.74	1.07	137.05	0.319	1.61	
49.470	16.5322	0.0724788	0.4841818	6	28.2	10.7	0.5	0.18643	124.6	119.6	0.444	1.76	1.08	134.09	0.304	1.54	
49.490	15.8504	0.0626786	0.4921694	6	26.8	10.5	0.5	0.18663	119.6	114.6	0.400	1.75	1.07	128.29	0.276	1.40	
49.510	15.8153	0.0673879	0.47931	6	27.1	11.0	0.5	0.18683	119.2	114.2	0.432	1.77	1.08	129.26	0.281	1.42	
49.530	16.7505	0.0715594	0.4656575	6	28.4	10.4	0.5	0.18703	125.9	120.9	0.433	1.75	1.07	134.70	0.307	1.55	
49.550	17.8188	0.0783576	0.4746931	6	30.1	10.0	0.5	0.18723	133.7	128.7	0.445	1.73	1.06	141.48	0.343	1.74	
49.570	18.8434	0.0900716	0.4226323	6	32.0	10.0	0.5	0.18743	140.7	135.7	0.485	1.73	1.06	148.86	0.387	1.96	
49.590	18.4683	0.1027799	0.202748	6	32.1	11.3	0.5	0.18763	136.3	131.3	0.571	1.78	1.09	148.92	0.387	1.96	
49.610	22.8259	0.219644	0.6195737	6	44.0	12.9	0.5	0.18783	171.1	166.1	0.965	1.84	1.13	194.06	0.760	3.84	
49.630	29.1275	0.0253791	0.0528255	7	34.4	3.0	0.5	0.18803	212.8	207.8	0.089	1.30	1.00	212.80	0.976	4.00	
49.650	32.3616	0.242065	0.5317389	6	56.7	8.2	0.5	0.18823	239.8	234.8	0.752	1.65	1.01	240.97	1.381	4.00	
49.670	21.6866	0.0098881	0.6369651	6	40.5	11.9	0.5	0.19003	161.9	156.9	0.005	1.80	1.11	179.66	0.619	3.14	
49.690	12.4533	0.0142959	0.581647	6	19.2	8.9	0.5	0.19133	94.2	89.2	0.116	1.68	1.03	96.81	0.164	0.83	
49.710	12.4533	0.0218018	0.5447116	6	19.9	9.9	0.5	0.19153	93.9	88.9	0.177	1.73	1.06	99.17	0.171	0.87	
50.000	35.5115	0.0337721	0.5300678	7	40.5	2.3	0.5	0.19173	260.3	255.3	0.096	1.22	1.00	260.29	1.720	4.00	
50.020	35.7069	0.0371369	0.5058502	7	41.1	2.4	0.5	0.19193	261.4	256.4	0.105	1.23	1.00	261.39	1.741	4.00	
50.040	32.3659	0.0931236	0.4276741	6	45.4	4.4	0.5	0.19213	236.6	231.6	0.290	1.42	1.00	236.59	1.312	4.00	
50.060	18.7382	0.1593858	0.3557295	6	35.9	14.4	0.5	0.19233	137.7	132.7	0.866	1.89	1.18	161.93	0.475	2.41	
50.080	18.7382	0.2350729	0.1159045	6	38.4	18.5	0.5	0.19253	135.9	130.9	1.294	2.00	1.30	177.11	0.697	3.03	
50.100	14.1396	0.3119608	0.02181	5	32.9	31.3	0.5	0.19273	102.0	97.0	2.316	2.27	1.86	189.43	0.712	3.62	
50.120	14.1396	0.4684447	-0.0306473	5	35.3	39.5	0.5	0.19293	101.6	96.6	3.492	2.40	2.31	234.73	1.283	4.00	
50.140	11.9309	0.6286935	0.002266	4	32.7	55.7	0.7	0.19313	---	---	5.594	2.60	---	---	0.042	4.00	
50.160	11.9669	0.6937299	0.0285513	4	33.3	58.3	0.7	0.19333	---	---	6.139	2.63	---	---	0.042	4.00	
50.180	12.6093	0.6937299	0.0923384	5	34.9	55.0	0.5	0.19353	91.3	86.3	5.778	2.60	3.30	301.69	2.634	4.00	
50.200	14.9792	0.6480625	0.1998872	5	39.6	43.8	0.5	0.19373	109.1	104.1	4.475	2.46	2.57	280.36	2.129	4.00	
50.220	18.6821	0.5171641	0.3274615	5	45.3	29.7	0.5	0.19393	136.5	131.5	2.824	2.24	1.78	242.42	1.405	4.00	
50.240	19.57	0.4107443	0.4033149	5	44.9	24.3	0.5	0.19433	143.3	138.3	2.131	2.14	1.53	218.79	1.054	4.00	
50.260	18.5831	0.3369585	0.3221364	5	41.5	23.1	0.5	0.19453	135.5	130.5	1.851	2.11	1.48	200.06	0.825	4.00	
50.300	17.5792	0.260796	0.3494414	5	37.9	21.2	0.5	0.19473	128.4	123.4	1.514	2.07	1.40	179.98	0.622	3.17	
50.320	16.9792	0.2306262	0.3786424	5	36.2	20.6	0.5	0.19493	124.3	119.3	1.384	2.05	1.38	171.23	0.547	2.78	
50.340	17.6471	0.1729447	0.4252322	6	35.2	16.5	0.5	0.19513	129.4	124.4	0.995	1.95	1.24	160.14	0.462	2.55	
50.360	18.0379	0.1324306	0.1095315	6	33.5	14.0	0.5	0.19533	129.8	124.8	0.759	1.88	1.17	151.49	0.402	2.05	
50.380	17.3456	0.1324306	0.1095315	6	32.6	14.8	0.5	0.19553	124.8	119.8	0.790	1.90	1.19	148.47	0.384	1.96	
50.400	15.4761	0.1615684	0.0145589	6	31.1	19.5	0.5	0.19573	110.7	105.7	1.092	2.03	1.34	148.35	0.384	1.95	
50.420	11.6741	0.1218574	0.0107634	5	24.1	24.2	0.5	0.19593	83.5	78.5	1.109	2.14	1.52	127.24	0.272	1.38	
50.440	10.4848	0.1294224	0.017363	5	22.6	28.6	0.5	0.19613	75.0	70.0	1.320	2.22	1.72	129.05	0.280	1.43	
50.460	9.7916	0.1379405	0.0288912	5	21.8	32.0	0.5	0.19633	70.1	65.1	1.513	2.28	1.89	132.74	0.298	1.52	
50.480	9.746	0.126034	0.0648068	5	21.5	30.9	0.5	0.19653	70.0	65.0	1.406	2.26	1.84	128.63	0.278	1.42	
50.500	10.1325	0.1800806	0.095794	5	23.5	34.9	0.5	0.19673	72.9	67.9	1.890	2.33	2.05	149.22	0.389	1.98	

CPT Verileri														L BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																55	2.47
50.540	13.9809	0.1991931	0.260332	5	30.5	24.6	0.5	0.19713	101.4	96.4	1.471	2.14	1.54	156.04	0.433	0.042	2.21
50.560	15.5182	0.2141842	0.1687867	5	33.2	22.6	0.5	0.19733	111.7	106.7	1.429	2.10	1.46	162.83	0.482	0.042	2.46
50.580	16.7233	0.2214202	0.1188503	5	35.2	21.1	0.5	0.19753	119.8	114.8	1.372	2.07	1.40	167.36	0.516	0.042	2.63
50.600	18.0651	0.2053722	0.0628524	6	36.6	18.3	0.5	0.19773	128.9	123.9	1.179	2.00	1.30	167.30	0.515	0.042	2.63
50.620	20.4543	0.1877356	0.0439032	6	39.3	14.7	0.5	0.19793	145.7	140.7	0.948	1.90	1.18	172.63	0.558	0.042	2.85
50.640	22.3719	0.1672222	0.0350093	6	40.8	12.0	0.5	0.19813	159.2	154.2	0.771	1.81	1.11	177.17	0.597	0.042	3.05
50.660	23.5209	0.1481409	0.0432801	6	41.2	10.4	0.5	0.19833	167.3	162.3	0.648	1.75	1.07	178.82	0.612	0.042	3.12
50.680	23.9276	0.131974	0.0452345	6	40.7	9.4	0.5	0.19853	170.1	165.1	0.567	1.71	1.04	177.29	0.598	0.042	3.06
50.700	24.081	0.1163513	0.0384366	6	39.8	8.7	0.5	0.19873	171.1	166.1	0.497	1.67	1.02	174.33	0.573	0.042	2.93
50.720	24.6016	0.084618	0.0537319	6	37.9	7.0	0.5	0.19893	174.8	169.8	0.353	1.59	1.00	174.81	0.577	0.042	2.95
50.740	26.1783	0.0773945	0.0784876	6	38.8	6.0	0.5	0.19913	186.1	181.1	0.303	1.53	1.00	186.07	0.679	0.042	3.47
50.760	27.6095	0.0868757	0.1068707	6	41.0	5.9	0.5	0.19933	196.3	191.3	0.322	1.52	1.00	196.31	0.784	0.042	4.00
50.780	27.7541	0.1023734	0.1140068	6	42.6	6.4	0.5	0.19953	197.3	192.3	0.377	1.56	1.00	197.29	0.794	0.042	4.00
50.820	18.5805	0.0925732	0.4822558	6	32.6	10.9	0.5	0.19993	134.8	129.8	0.504	1.77	1.08	146.06	0.370	0.042	1.89
50.840	24.8479	0.080434	0.4586613	6	38.2	6.5	0.5	0.20013	178.9	173.9	0.327	1.56	1.00	178.89	0.612	0.042	3.13
50.860	24.1599	0.0762875	0.4687732	6	37.2	6.6	0.5	0.20033	174.0	169.0	0.319	1.57	1.00	174.01	0.642	0.042	2.92
50.880	23.2422	0.0742362	0.4350952	6	36.1	7.0	0.5	0.20053	167.2	162.2	0.323	1.59	1.00	167.20	0.515	0.042	2.63
50.900	22.3667	0.0742362	0.4350952	6	35.2	7.4	0.5	0.20073	160.9	155.9	0.336	1.61	1.00	160.94	0.488	0.042	2.39
50.920	21.8653	0.0884267	0.4138517	6	35.9	8.5	0.5	0.20093	157.2	152.2	0.410	1.66	1.01	159.11	0.455	0.042	2.33
50.940	22.0143	0.094512	0.4084134	6	36.5	8.7	0.5	0.20113	156.1	153.1	0.435	1.67	1.02	161.28	0.470	0.042	2.41
50.960	21.7137	0.094487	0.4044479	6	36.2	8.9	0.5	0.20133	155.9	150.9	0.441	1.68	1.03	159.94	0.461	0.042	2.36
50.980	20.8014	0.0804778	0.3748486	6	34.1	8.7	0.5	0.20153	149.2	144.2	0.393	1.67	1.02	152.26	0.408	0.042	2.09
51.000	19.3891	0.0804778	0.3748486	6	32.6	9.7	0.5	0.20173	139.2	134.2	0.422	1.72	1.05	146.10	0.370	0.042	1.90
51.020	18.1195	0.0685762	0.369382	6	30.3	9.9	0.5	0.20193	130.1	125.1	0.386	1.73	1.05	137.26	0.320	0.042	1.64
51.040	15.9135	0.0617592	0.3739706	6	27.4	11.3	0.5	0.20213	114.6	109.5	0.397	1.78	1.09	125.32	0.263	0.042	1.35
51.060	15.9135	0.058013	0.3762082	6	27.1	11.0	0.5	0.20233	114.5	109.5	0.372	1.77	1.09	124.31	0.259	0.042	1.33
51.080	14.1203	0.0524094	0.5088243	6	24.8	12.3	0.5	0.20253	102.8	97.8	0.377	1.82	1.12	115.02	0.222	0.042	1.14
51.100	14.9643	0.0507208	0.5061901	6	25.6	11.2	0.5	0.20273	108.7	103.6	0.344	1.78	1.09	118.45	0.235	0.042	1.20
51.120	15.0677	0.0491447	0.4969279	6	25.6	10.9	0.5	0.20293	109.3	104.2	0.331	1.77	1.08	118.42	0.234	0.042	1.20
51.140	10.7618	0.0570749	0.4329708	6	20.9	18.4	0.5	0.20313	78.5	96.1	0.362	1.82	1.12	113.09	0.215	0.042	1.10
51.160	10.7618	0.0570749	0.4329708	6	20.9	18.4	0.5	0.20333	78.5	73.5	0.545	2.00	1.30	102.17	0.179	0.042	0.92
51.180	8.8827	0.073248	0.3961771	5	19.0	26.2	0.5	0.20353	65.0	60.0	0.855	2.18	1.61	104.72	0.187	0.041	0.96
51.200	6.4024	0.0918352	0.3885294	5	15.7	42.2	0.5	0.20373	47.6	42.6	1.512	2.44	2.47	117.57	0.231	0.041	1.19
51.220	5.8923	0.1230995	0.388841	5	15.5	52.4	0.5	0.20393	44.0	39.0	2.212	2.57	3.13	137.52	0.322	0.041	1.65
51.240	4.958	0.2218842	0.5280851	4	15.4	78.4	0.7	0.20413	***	***	4.652	2.82	***	***	***	0.041	4.00
51.260	5.9826	0.2045779	0.9940825	4	18.2	58.5	0.7	0.20433	***	***	3.268	2.63	***	***	***	0.041	4.00
51.280	11.5129	0.2098126	1.0864775	5	28.4	30.1	0.5	0.20453	88.1	83.1	1.766	2.25	1.80	158.39	0.450	0.041	2.31
51.300	18.3824	0.1826385	0.666706	6	37.4	16.4	0.5	0.20473	133.1	128.1	0.996	1.95	1.24	164.55	0.494	0.041	2.54
51.320	23.2948	0.1451452	0.2075915	6	41.3	10.5	0.5	0.20493	164.2	159.2	0.637	1.75	1.07	176.38	0.590	0.041	3.03
51.340	22.1204	0.1301729	0.5262723	6	39.4	10.5	0.5	0.20513	158.1	153.1	0.594	1.75	1.07	169.48	0.533	0.041	2.74
51.360	21.8128	0.1230957	0.4812644	6	38.6	10.4	0.5	0.20533	155.6	150.6	0.570	1.75	1.07	166.36	0.508	0.041	2.61

CPT Verileri													L BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																55	2.47
51.380	25.2572	0.1267143	0.5361009	6	42.8	8.5	0.5	0.20553	179.9	174.9	0.505	1.66	1.01	182.24	0.643	0.041	3.30
51.400	27.443	0.112455	0.4987124	6	44.0	6.9	0.5	0.20573	194.8	189.8	0.413	1.59	1.00	194.81	0.768	0.048	2.41
51.420	28.4807	0.0954563	0.5068502	6	43.5	5.9	0.5	0.20593	202.0	197.0	0.338	1.53	1.00	201.99	0.846	0.048	2.93
51.440	29.9645	0.0858438	0.5142626	6	44.0	5.1	0.5	0.20613	212.3	207.3	0.288	1.48	1.00	212.29	0.970	0.049	2.97
51.460	31.06	0.0853372	0.49571	6	44.9	4.8	0.5	0.20633	219.7	214.7	0.277	1.45	1.00	219.68	1.066	0.049	2.75
51.480	30.8515	0.0865067	0.4132002	6	44.8	5.0	0.5	0.20653	217.6	212.5	0.283	1.46	1.00	217.55	1.038	0.048	2.66
51.500	29.89	0.0830982	0.46291	6	43.6	5.1	0.5	0.20673	211.1	206.1	0.280	1.47	1.00	211.11	0.955	0.049	2.47
51.520	29.5272	0.0875136	0.4765342	6	43.8	5.4	0.5	0.20693	208.5	203.6	0.299	1.49	1.00	208.58	0.924	0.049	2.11
51.560	29.344	0.0930172	0.5306343	6	44.2	5.6	0.5	0.20733	207.5	202.5	0.319	1.51	1.00	207.48	0.911	0.048	1.99
51.580	30.344	0.083066	0.5205507	6	45.2	5.3	0.5	0.20753	214.2	209.2	0.309	1.49	1.00	214.25	0.995	0.049	1.83
51.600	32.4799	0.090278	0.5064167	6	46.7	4.8	0.5	0.20773	228.9	223.8	0.279	1.44	1.00	228.87	1.195	0.049	1.96
51.620	32.3966	0.0939303	0.5185397	6	47.1	4.6	0.5	0.20793	228.3	223.2	0.292	1.45	1.00	228.26	1.186	0.048	2.33
51.640	32.4396	0.0985584	0.5044623	6	48.1	4.8	0.5	0.20813	231.9	226.9	0.301	1.45	1.00	231.89	1.240	0.048	2.42
51.660	31.5377	0.0937615	0.4837286	6	47.8	5.0	0.5	0.20833	228.2	223.2	0.313	1.47	1.00	228.23	1.186	0.048	2.36
51.700	30.11	0.0947684	0.4728803	6	45.2	5.5	0.5	0.20873	216.9	211.9	0.305	1.48	1.00	216.90	1.029	0.048	2.05
51.740	28.3238	0.0931236	0.4651193	6	43.4	6.0	0.5	0.20913	199.1	194.1	0.332	1.53	1.00	199.08	0.814	0.049	1.81
51.760	27.1029	0.0974702	0.469368	6	42.6	6.6	0.5	0.20933	190.6	185.5	0.363	1.57	1.00	190.57	0.724	0.048	1.69
51.780	27.0381	0.0929422	0.5019697	6	42.2	6.5	0.5	0.20953	190.3	185.2	0.347	1.56	1.00	190.26	0.720	0.048	1.59
51.800	27.4579	0.0900841	0.5176049	6	42.4	6.2	0.5	0.20973	193.2	188.1	0.331	1.54	1.00	193.17	0.750	0.049	1.47
51.820	28.9023	0.0851621	0.5094474	6	43.2	5.5	0.5	0.20993	203.0	198.0	0.297	1.50	1.00	202.99	0.858	0.049	1.26
51.840	29.4202	0.0867631	0.5119683	6	43.9	5.4	0.5	0.21013	206.5	201.5	0.297	1.50	1.00	206.49	0.899	0.048	1.32
51.860	29.5683	0.0979267	0.4855414	6	45.1	5.8	0.5	0.21033	207.2	202.2	0.334	1.52	1.00	207.23	0.908	0.049	1.51
51.900	28.2046	0.082673	0.4917445	6	42.4	5.7	0.5	0.21073	197.7	192.7	0.296	1.51	1.00	197.68	0.798	0.049	2.03
51.920	27.7708	0.0805216	0.5039808	6	41.8	5.8	0.5	0.21093	194.7	189.7	0.292	1.52	1.00	194.68	0.766	0.048	2.31
51.940	27.9277	0.0766065	0.503216	6	41.6	5.6	0.5	0.21113	195.7	190.6	0.277	1.51	1.00	195.67	0.777	0.049	2.55
51.960	28.074	0.0758559	0.4941804	6	41.6	5.5	0.5	0.21133	196.5	191.5	0.272	1.50	1.00	196.52	0.786	0.049	2.70
51.980	27.4956	0.0791519	0.4806979	6	41.4	5.8	0.5	0.21153	192.4	187.3	0.291	1.52	1.00	192.36	0.742	0.048	2.84
52.000	26.566	0.0715719	0.4665639	6	39.8	5.9	0.5	0.21173	185.7	180.7	0.272	1.52	1.00	185.71	0.676	0.048	3.12
52.020	25.592	0.0643359	0.4776955	6	38.2	5.9	0.5	0.21193	179.1	174.0	0.254	1.53	1.00	179.08	0.614	0.049	3.66
52.040	25.2431	0.0642048	0.4930475	6	37.9	6.0	0.5	0.21213	176.7	171.7	0.257	1.53	1.00	176.70	0.593	0.049	3.87
52.060	25.2712	0.0617718	0.5020547	6	37.7	5.9	0.5	0.21233	176.9	171.8	0.247	1.53	1.00	176.87	0.595	0.048	3.80
52.080	25.3571	0.0635792	0.5070115	6	38.0	6.0	0.5	0.21253	177.4	172.4	0.253	1.53	1.00	177.41	0.599	0.049	2.41
52.100	25.5473	0.0593952	0.5095891	6	37.7	5.7	0.5	0.21273	178.7	173.6	0.235	1.51	1.00	178.65	0.610	0.049	2.93
52.120	25.4719	0.0648175	0.5097024	6	38.2	6.0	0.5	0.21293	175.1	170.0	0.257	1.54	1.00	178.05	0.605	0.048	2.97
52.140	25.0652	0.0636167	0.5026212	6	37.8	6.1	0.5	0.21313	175.1	170.1	0.256	1.53	1.00	175.13	0.580	0.049	2.75
52.160	23.2536	0.0662997	0.5425306	6	36.3	7.0	0.5	0.21333	162.9	157.9	0.287	1.59	1.00	162.92	0.482	0.049	2.66
52.180	23.4719	0.0582945	0.5083145	6	35.7	6.5	0.5	0.21353	164.1	159.1	0.251	1.56	1.00	164.11	0.491	0.049	2.47
52.200	22.8978	0.0567622	0.4948886	6	35.0	6.7	0.5	0.21373	160.0	155.0	0.251	1.57	1.00	160.01	0.461	0.048	2.11
52.220	22.1975	0.0559429	0.4869293	6	34.3	7.0	0.5	0.21393	155.1	150.1	0.255	1.59	1.00	155.09	0.427	0.049	1.99

CPT Verileri										L BÖLGESİ									
Derinlik m	qc Koni Uç Direnci	qs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı		
																55	2.47		
52.240	21.5402	0.0583445	0.491263	6	33.9	7.4	0.5	0.21413	150.6	145.5	0.274	1.61	1.00	150.56	0.397	0.049	1.83		
52.260	21.3929	0.0553988	0.5055386	6	33.4	7.3	0.5	0.21433	149.6	144.5	0.262	1.61	1.00	149.58	0.391	0.049	1.96		
52.280	21.0003	0.0469808	0.5084561	6	32.2	7.0	0.5	0.21453	146.8	141.8	0.226	1.59	1.00	146.85	0.375	0.049	2.33		
52.300	20.5595	0.048732	0.4846917	6	32.0	7.4	0.5	0.21473	143.6	138.6	0.240	1.61	1.00	143.61	0.355	0.049	2.42		
52.320	19.0222	0.0471434	0.4398821	6	30.2	8.2	0.5	0.21493	132.8	127.7	0.252	1.65	1.00	133.30	0.300	0.049	2.36		
52.340	16.5752	0.040364	0.4067705	6	27.0	9.4	0.5	0.21513	115.8	110.7	0.248	1.71	1.04	120.69	0.244	0.049	2.21		
52.360	13.6242	0.0352544	0.3745654	6	23.2	11.8	0.5	0.21533	95.4	90.4	0.266	1.80	1.11	105.57	0.189	0.049	2.05		
52.380	10.9476	0.033547	0.3614794	6	19.8	15.5	0.5	0.21553	77.0	72.0	0.317	1.92	1.21	93.09	0.155	0.049	1.90		
52.400	8.8879	0.0312643	0.3581937	6	17.0	19.6	0.5	0.21573	63.0	57.9	0.368	2.03	1.34	84.62	0.136	0.049	1.81		
52.420	7.3805	0.0378999	0.5251196	5	15.6	25.7	0.5	0.21593	53.8	48.8	0.529	2.17	1.59	85.33	0.138	0.049	1.69		
52.440	7.8038	0.0375056	0.5243462	5	16.2	24.0	0.5	0.21613	56.6	51.6	0.494	2.13	1.51	85.71	0.139	0.049	1.59		
52.460	8.3998	0.0433534	0.5230716	5	17.4	23.2	0.5	0.21633	60.7	55.6	0.530	2.11	1.48	89.91	0.148	0.049	1.47		
52.480	11.2359	0.0525157	0.5119117	6	21.7	17.6	0.5	0.21653	79.8	74.8	0.477	1.98	1.27	101.73	0.178	0.049	1.26		
52.500	13.5523	0.0636042	0.4855981	6	25.4	15.1	0.5	0.21673	95.4	90.3	0.478	1.91	1.20	114.06	0.218	0.049	1.32		
52.520	19.8899	0.0835235	0.4128603	6	34.2	10.2	0.5	0.21693	137.8	132.8	0.427	1.74	1.06	146.53	0.373	0.049	1.51		
52.540	22.0905	0.0841114	0.4133702	6	36.8	8.7	0.5	0.21713	152.9	147.7	0.386	1.68	1.02	156.06	0.433	0.049	2.03		
52.560	22.8697	0.0855749	0.4392589	6	37.7	8.4	0.5	0.21733	158.1	153.1	0.379	1.66	1.01	159.61	0.458	0.049	2.31		
52.580	24.3413	0.09348	0.5167269	6	40.1	8.0	0.5	0.21753	168.5	163.5	0.388	1.64	1.00	168.54	0.525	0.049	2.55		
52.600	25.556	0.1001031	0.5075214	6	41.9	7.7	0.5	0.21773	176.6	171.6	0.395	1.62	1.00	176.63	0.593	0.049	2.70		
52.620	25.9592	0.1086588	0.5183414	6	43.0	7.9	0.5	0.21793	179.4	174.3	0.422	1.63	1.00	179.36	0.617	0.049	2.84		
52.640	26.6831	0.1181275	0.5170668	6	44.5	7.9	0.5	0.21813	184.2	179.1	0.447	1.64	1.00	184.17	0.661	0.049	3.12		
52.660	27.8304	0.1091653	0.5202391	6	45.0	7.1	0.5	0.21833	191.9	186.8	0.395	1.59	1.00	191.87	0.737	0.049	3.66		
52.680	27.7112	0.0907967	0.5368091	6	43.3	6.4	0.5	0.21853	191.1	186.0	0.328	1.56	1.00	191.09	0.729	0.049	3.87		
52.700	29.9014	0.0804529	0.5278668	6	44.4	5.3	0.5	0.21873	205.7	200.7	0.271	1.49	1.00	205.75	0.890	0.049	3.80		
52.720	30.0898	0.0759248	0.5224768	6	44.1	5.1	0.5	0.21893	206.9	201.8	0.254	1.47	1.00	206.89	0.904	0.049	2.41		
52.740	29.2704	0.066907	0.5044906	6	44.5	5.8	0.5	0.21913	201.1	196.1	0.299	1.52	1.00	201.14	0.837	0.049	2.93		
52.760	28.3746	0.0873822	0.4852298	6	43.7	6.1	0.5	0.21933	194.9	189.8	0.310	1.54	1.00	194.87	0.768	0.049	2.97		
52.780	27.151	0.0882454	0.4901687	6	42.6	6.5	0.5	0.21953	187.0	181.9	0.327	1.56	1.00	186.99	0.688	0.049	2.75		
52.800	26.6556	0.0875824	0.4994858	6	42.1	6.7	0.5	0.21973	183.3	178.2	0.332	1.57	1.00	183.25	0.652	0.049	2.66		
52.820	25.4789	0.0886206	0.4976927	6	41.0	7.3	0.5	0.21993	175.2	170.1	0.351	1.60	1.00	175.16	0.580	0.049	2.47		
52.840	24.4835	0.0927045	0.4986274	6	40.3	8.0	0.5	0.22013	168.4	163.4	0.382	1.64	1.00	168.41	0.524	0.049	2.11		
52.860	23.4727	0.100641	0.4991089	6	39.8	8.9	0.5	0.22033	161.5	156.5	0.433	1.68	1.03	165.61	0.502	0.049	1.99		
52.880	22.5498	0.101379	0.5078046	6	38.9	9.5	0.5	0.22053	155.3	150.2	0.454	1.71	1.04	161.95	0.475	0.049	1.83		

GPT Verileri													M BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
44.010	10.3209	0.0211451	0.4316962	6	15.1	8.6	0.5	0.131863	93.6	88.7	0.208	1.67	1.02	95.34	0.161	0.041	2.66
44.030	10.5462	0.020945	0.4331691	6	15.3	8.4	0.5	0.13203	95.6	90.6	0.201	1.66	1.01	96.43	0.163	0.040	0.74
44.050	10.8845	0.021364	0.4349252	6	15.6	8.1	0.5	0.13223	98.4	93.5	0.199	1.64	1.00	98.34	0.168	0.040	0.77
44.070	11.306	0.0234279	0.4373045	6	16.2	7.9	0.5	0.13243	102.0	97.1	0.210	1.64	1.00	102.05	0.179	0.039	0.81
44.090	11.8293	0.026999	0.4488327	6	17.0	7.8	0.5	0.13263	106.6	101.6	0.231	1.63	1.00	106.61	0.193	0.039	0.88
44.110	14.2728	0.0280622	0.4490592	6	19.3	6.0	0.5	0.13283	127.7	122.8	0.198	1.53	1.00	127.74	0.274	0.038	1.25
44.130	16.8819	0.0349292	0.4574434	6	22.1	5.1	0.5	0.13303	150.3	145.4	0.208	1.47	1.00	150.33	0.396	0.038	1.81
44.150	37.9147	0.1179561	0.4592845	7	45.0	2.5	0.5	0.13323	332.5	327.5	0.312	1.24	1.00	332.46	3.497	0.038	4.00
44.200	37.8358	0.0967319	0.4765342	6	76.5	11.9	0.5	0.13373	311.3	326.3	1.846	1.80	1.11	367.20	4.685	0.038	4.00
44.220	57.191	0.3009536	0.3582787	7	75.9	2.7	0.5	0.13393	497.3	492.3	0.528	1.26	1.00	497.28	11.516	0.038	4.00
44.240	64.7038	0.1528752	0.4775922	7	60.9	0.9	0.5	0.13413	562.8	557.8	0.237	0.99	1.00	562.81	16.659	0.038	4.00
44.260	48.1839	0.1887363	0.5310875	7	59.1	2.3	0.5	0.13433	420.3	415.3	0.392	1.22	1.00	420.32	6.986	0.038	4.00
44.280	56.0376	0.1654085	0.5237514	7	60.0	1.5	0.5	0.13453	487.7	482.7	0.295	1.10	1.00	487.65	10.865	0.038	4.00
44.700	23.5744	0.0073736	0.551028	7	26.4	2.8	0.5	0.13873	204.8	199.9	0.031	1.27	1.00	204.83	0.879	0.038	4.00
44.720	28.003	0.0116014	0.3924949	7	28.6	2.0	0.5	0.13893	240.9	235.9	0.042	1.18	1.00	240.91	1.380	0.038	4.00
44.740	19.6821	0.0630044	0.3995443	6	29.2	6.7	0.5	0.13913	170.3	165.3	0.426	1.57	1.00	170.25	0.539	0.038	2.48
44.760	20.5963	0.1080083	0.3183976	6	31.8	7.4	0.5	0.13933	177.2	172.2	0.531	1.61	1.00	177.19	0.597	0.038	2.74
44.780	19.4122	0.107769	0.2758556	6	30.8	8.2	0.5	0.13953	166.7	161.7	0.564	1.65	1.00	167.22	0.515	0.038	2.37
44.800	19.4727	0.1264954	0.1920412	6	31.7	9.1	0.5	0.13973	166.4	161.4	0.663	1.69	1.03	171.88	0.552	0.038	2.54
44.820	19.0607	0.1440257	0.1279142	6	32.2	10.3	0.5	0.13993	162.2	157.2	0.774	1.74	1.07	173.20	0.563	0.038	2.59
44.840	18.3079	0.1534068	0.1304917	6	31.8	11.5	0.5	0.14013	155.8	150.8	0.859	1.79	1.10	170.97	0.545	0.038	2.51
44.860	17.4709	0.1447949	0.2108205	6	30.6	11.8	0.5	0.14033	149.3	144.3	0.847	1.80	1.11	165.01	0.498	0.038	2.29
44.880	17.4437	0.0715407	0.3715346	6	26.3	7.5	0.5	0.14053	150.3	145.3	0.415	1.62	1.00	150.28	0.396	0.038	1.82
44.900	17.4893	0.0663372	0.3449378	6	25.9	7.2	0.5	0.14073	150.3	145.4	0.385	1.60	1.00	150.34	0.396	0.038	1.82
44.920	16.8697	0.0686075	0.3979049	6	25.6	7.7	0.5	0.14093	145.5	140.5	0.411	1.63	1.00	145.46	0.366	0.038	1.69
44.940	16.541	0.083142	0.4147581	6	26.4	8.9	0.5	0.14113	142.7	137.8	0.508	1.68	1.03	146.51	0.372	0.038	1.71
44.960	15.0326	0.0706839	0.5021113	6	24.1	9.3	0.5	0.14133	130.7	125.7	0.473	1.70	1.04	135.65	0.312	0.038	1.44
44.980	15.2842	0.0646887	0.4620886	6	23.9	8.7	0.5	0.14153	132.4	127.4	0.427	1.67	1.02	134.90	0.308	0.038	1.42
45.000	15.4507	0.0651114	0.4518351	6	24.1	8.6	0.5	0.14173	133.6	128.6	0.425	1.67	1.02	135.75	0.313	0.038	1.44
45.020	15.9301	0.0675631	0.4429694	6	24.7	8.4	0.5	0.14193	137.4	132.5	0.428	1.66	1.01	138.78	0.329	0.038	1.51
45.040	16.0519	0.0690515	0.4183553	6	24.9	8.4	0.5	0.14213	138.2	133.2	0.435	1.66	1.01	139.68	0.333	0.038	1.54
45.060	16.5927	0.0652866	0.4225918	6	25.2	7.8	0.5	0.14233	142.7	137.7	0.397	1.63	1.00	142.65	0.350	0.038	1.61
45.080	17.165	0.0634479	0.4430261	6	25.6	7.2	0.5	0.14253	147.5	142.5	0.373	1.60	1.00	147.49	0.378	0.038	1.74
45.100	16.6795	0.0608774	0.44471615	6	26.7	6.2	0.5	0.14273	160.1	155.1	0.328	1.54	1.00	160.10	0.462	0.038	2.13
45.120	19.6155	0.0606398	0.4442157	6	27.5	5.7	0.5	0.14293	167.8	162.8	0.312	1.51	1.00	167.79	0.519	0.038	2.40
45.140	21.6015	0.0591951	0.4165992	6	29.0	4.8	0.5	0.14313	184.0	179.1	0.276	1.45	1.00	184.04	0.660	0.038	3.04
45.160	22.7356	0.0673679	0.4272209	6	30.7	4.8	0.5	0.14333	193.5	188.5	0.299	1.45	1.00	193.47	0.754	0.038	3.48
45.180	24.2878	0.0631914	0.4044479	6	31.4	4.1	0.5	0.14353	206.1	201.1	0.262	1.40	1.00	206.11	0.894	0.038	4.00
45.200	24.9504	0.0663468	0.427929	6	32.3	4.0	0.5	0.14373	211.7	206.7	0.268	1.39	1.00	211.68	0.962	0.038	4.00
45.220	24.9784	0.0644172	0.4250399	6	32.1	4.0	0.5	0.14393	211.7	206.8	0.260	1.39	1.00	211.75	0.963	0.038	4.00
45.240	22.6936	0.0764251	0.4425446	6	31.6	5.2	0.5	0.14413	192.7	187.7	0.339	1.48	1.00	192.71	0.746	0.038	3.44

CPT Verileri														M BÖLGESİ				
Derinlik m	qc	qc Koni Uç Direnci	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
							[%]					[%]					41	2.66
45.260	22.0774	0.0711029	0.4194316		6	30.6	5.2	0.5	0.14433	187.3	182.3	0.325	1.48	1.00	187.26	0.591	0.038	3.19
45.280	21.1239	0.0705638	0.3829495		6	29.6	5.6	0.5	0.14463	178.9	173.9	0.338	1.51	1.00	173.89	0.612	0.038	2.83
45.300	20.9924	0.0701523	0.3852438		6	29.6	5.7	0.5	0.14473	177.7	172.7	0.338	1.51	1.00	177.70	0.602	0.038	2.78
45.320	21.5823	0.0716282	0.4179871		6	30.3	5.5	0.5	0.14493	182.7	177.8	0.335	1.50	1.00	182.75	0.648	0.038	2.99
45.340	21.9764	0.06857	0.4214993		6	30.3	5.2	0.5	0.14513	185.9	181.0	0.315	1.48	1.00	185.94	0.678	0.038	3.13
45.360	21.0543	0.0707401	0.4170524		6	29.8	5.7	0.5	0.14533	178.2	173.2	0.339	1.51	1.00	178.19	0.606	0.038	2.80
45.380	20.4341	0.0763399	0.4101695		6	30.0	6.3	0.5	0.14553	173.2	168.2	0.386	1.55	1.00	173.20	0.563	0.038	2.61
45.400	19.8364	0.0681766	0.4462834		6	30.3	7.1	0.5	0.14573	168.4	163.5	0.447	1.60	1.00	168.43	0.524	0.038	2.43
45.420	19.2913	0.0944557	0.4422897		6	30.2	7.8	0.5	0.14593	163.4	158.4	0.494	1.63	1.00	163.36	0.485	0.038	2.25
45.440	18.6392	0.0777823	0.4316113		6	28.3	7.3	0.5	0.14613	157.8	152.8	0.421	1.61	1.00	157.76	0.445	0.038	2.06
45.460	18.3578	0.0709215	0.42487		6	27.5	7.1	0.5	0.14633	155.3	150.3	0.390	1.60	1.00	155.27	0.428	0.038	1.98
45.480	18.2027	0.0677006	0.4295152		6	27.1	7.1	0.5	0.14653	153.9	149.0	0.375	1.59	1.00	153.92	0.419	0.038	1.94
45.500	17.6278	0.0645673	0.4421764		6	26.4	7.2	0.5	0.14673	149.2	144.2	0.370	1.60	1.00	149.18	0.389	0.038	1.80
45.520	15.2439	0.0641733	0.4580382		6	24.1	9.0	0.5	0.14693	129.5	124.6	0.425	1.69	1.03	133.30	0.300	0.038	1.39
45.540	15.534	0.0736233	0.4464337		6	25.1	9.5	0.5	0.14713	131.7	126.8	0.479	1.71	1.04	137.38	0.321	0.038	1.49
45.560	14.7154	0.0699665	0.4218676		6	25.2	11.5	0.5	0.14733	124.7	119.7	0.619	1.79	1.10	137.06	0.319	0.038	1.48
45.580	14.4148	0.0901216	0.4231705		6	24.9	11.9	0.5	0.14753	122.2	117.2	0.633	1.80	1.11	135.44	0.311	0.038	1.44
45.600	15.4235	0.0922042	0.4547808		6	26.2	10.9	0.5	0.14773	130.6	125.7	0.604	1.77	1.08	141.46	0.343	0.038	1.59
45.620	16.5556	0.0744113	0.4566633		6	26.5	8.4	0.5	0.14793	142.4	137.4	0.445	1.66	1.01	144.05	0.358	0.038	1.66
45.640	18.2921	0.0652678	0.4399104		6	27.1	6.9	0.5	0.14813	153.9	148.9	0.360	1.59	1.00	153.91	0.419	0.038	1.94
45.660	20.7523	0.0605585	0.4187802		6	28.8	5.4	0.5	0.14833	173.8	168.9	0.294	1.50	1.00	173.83	0.569	0.038	2.64
45.680	21.577	0.0478751	0.3894925		6	28.2	4.5	0.5	0.14853	180.2	175.3	0.224	1.43	1.00	180.24	0.525	0.038	2.90
45.700	22.2177	0.0477247	0.3837426		6	28.6	4.3	0.5	0.14873	185.3	180.4	0.215	1.41	1.00	185.33	0.672	0.038	3.12
45.720	22.9118	0.0543461	0.3600348		6	29.9	4.4	0.5	0.14893	190.7	185.7	0.240	1.42	1.00	190.70	0.725	0.038	3.37
45.740	21.9872	0.1074955	0.2963893		6	33.8	7.1	0.5	0.14913	182.5	177.5	0.496	1.60	1.00	182.47	0.645	0.038	3.00
45.760	21.9784	0.0952437	0.2597655		6	32.8	6.6	0.5	0.14933	182.0	177.0	0.440	1.57	1.00	181.98	0.640	0.038	2.98
45.800	21.6199	0.087351	0.4556288		6	32.1	6.4	0.5	0.14973	180.4	175.4	0.407	1.55	1.00	180.41	0.626	0.038	2.91
45.820	21.6588	0.1085586	0.3648217		6	33.7	7.3	0.5	0.14993	179.8	174.9	0.506	1.61	1.00	179.85	0.821	0.038	2.89
45.840	21.7742	0.1087901	0.3481668		6	33.8	7.3	0.5	0.15013	180.6	175.6	0.506	1.61	1.00	180.55	0.927	0.038	2.92
45.860	22.1072	0.0992776	0.392155		6	33.5	6.7	0.5	0.15033	183.5	178.5	0.454	1.57	1.00	183.50	0.955	0.038	3.04
45.880	22.6743	0.0490384	0.2979472		6	29.2	4.3	0.5	0.15053	182.2	182.3	0.219	1.41	1.00	187.24	0.890	0.038	3.21
45.900	23.7698	0.0490384	0.2979472		6	30.0	4.0	0.5	0.15073	196.0	191.1	0.209	1.39	1.00	196.04	0.781	0.038	3.63
45.920	21.747	0.1685687	0.262227		6	36.4	10.7	0.5	0.15093	173.3	174.3	0.681	1.76	1.08	187.24	0.960	0.038	3.29
45.940	21.5288	0.1729822	0.2415527		6	37.4	10.3	0.5	0.15113	177.1	172.1	0.818	1.74	1.07	183.82	0.706	0.038	3.50
45.960	21.2869	0.1960348	0.1306334		6	38.1	11.5	0.5	0.15133	174.1	169.1	0.942	1.79	1.10	191.25	0.731	0.038	3.40
45.980	21.1212	0.1558687	0.0027475		6	35.8	10.1	0.5	0.15153	171.6	166.6	0.760	1.73	1.06	181.91	0.640	0.038	2.98
46.000	20.9214	0.1508176	0.0320635		6	35.3	10.0	0.5	0.15173	170.1	165.1	0.741	1.73	1.06	179.92	0.622	0.038	2.90
46.020	20.6585	0.1315425	0.0366238		6	34.0	9.3	0.5	0.15193	167.9	162.9	0.655	1.70	1.04	174.36	0.573	0.038	2.67
46.040	20.4867	0.0861689	0.0550632		6	30.8	7.2	0.5	0.15213	166.5	161.6	0.432	1.60	1.00	166.54	0.510	0.038	2.37
46.080	19.3885	0.0430345	0.442318		6	26.3	5.2	0.5	0.15233	160.6	155.6	0.224	1.48	1.00	160.57	0.465	0.038	2.17
46.100	19.584	0.0396167	0.3195022		6	26.0	5.0	0.5	0.15273	161.1	156.1	0.205	1.47	1.00	161.05	0.468	0.038	2.18

CPT Verileri													M BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Katsayısı	Sürtünme Katsayısı	Boşluk Suyu Basıncı													41	2.66
45.120	19.4341	0.0352231	0.2885549	6	25.4	4.8	0.5	0.15293	159.9	154.9	0.184	1.46	1.00	159.89	0.460	0.038	2.15
45.140	19.8215	0.0448482	0.1849864	6	26.7	5.3	0.5	0.15313	161.7	156.7	0.231	1.49	1.00	161.67	0.473	0.038	2.21
45.160	20.1949	0.0592138	0.1576268	6	28.4	5.9	0.5	0.15333	164.4	159.4	0.300	1.53	1.00	164.36	0.493	0.038	2.30
45.180	21.1107	0.0639544	0.1143467	6	29.6	5.8	0.5	0.15353	171.3	166.3	0.310	1.52	1.00	171.30	0.547	0.038	2.55
45.200	21.1151	0.0486757	0.1797483	6	28.2	5.0	0.5	0.15373	171.7	166.8	0.235	1.47	1.00	171.75	0.551	0.038	2.57
45.220	20.0301	0.0452484	0.2191196	6	27.0	5.2	0.5	0.15393	163.2	158.2	0.230	1.48	1.00	163.21	0.484	0.038	2.26
45.240	20.0301	0.045436	0.2433939	6	27.0	5.2	0.5	0.15413	163.3	158.3	0.231	1.48	1.00	163.30	0.485	0.038	2.26
45.260	18.4236	0.0507583	0.262428	6	26.2	6.3	0.5	0.15433	150.4	145.4	0.281	1.55	1.00	150.42	0.396	0.038	1.85
45.280	17.7443	0.0724225	0.3111748	6	27.5	8.1	0.5	0.15453	145.2	140.3	0.415	1.65	1.00	145.41	0.366	0.038	1.71
45.300	14.0651	0.0848494	0.3097585	6	24.4	12.5	0.5	0.15473	115.6	110.6	0.617	1.83	1.13	130.13	0.285	0.038	1.33
45.320	14.0651	0.0936927	0.2741828	6	24.9	13.3	0.5	0.15493	115.2	110.2	0.683	1.85	1.15	132.11	0.294	0.038	1.38
45.340	7.7083	0.1011851	0.4813522	5	17.0	29.3	0.5	0.15513	65.6	60.6	1.340	2.23	1.76	115.14	0.222	0.038	1.04
45.360	10.4901	0.1527502	0.4521466	5	22.7	25.2	0.5	0.15533	87.8	82.8	1.480	2.16	1.56	137.38	0.321	0.038	1.50
45.380	13.8433	0.1636267	0.5744242	6	27.6	17.6	0.5	0.15553	115.6	110.6	1.113	1.98	1.27	147.38	0.378	0.038	1.77
45.400	18.6957	0.0905031	0.4080168	6	29.9	8.6	0.5	0.15573	152.8	147.8	0.491	1.67	1.02	155.14	0.427	0.038	2.00
45.420	21.7383	0.0985646	0.4133418	6	32.7	7.6	0.5	0.15593	170.8	165.8	0.476	1.62	1.00	170.78	0.543	0.038	2.54
45.440	20.9127	0.094881	0.3613661	6	33.2	7.0	0.5	0.15613	176.9	171.9	0.442	1.59	1.00	176.87	0.595	0.038	2.78
45.460	22.464	0.1006285	0.3621309	6	34.3	6.9	0.5	0.15633	182.6	177.6	0.453	1.58	1.00	182.56	0.646	0.038	3.02
45.480	23.457	0.1077269	0.3872832	6	35.9	6.7	0.5	0.15653	190.6	185.6	0.464	1.57	1.00	190.58	0.724	0.038	3.39
45.500	22.8978	0.1145614	0.3592701	6	35.8	7.3	0.5	0.15673	185.8	180.8	0.506	1.60	1.00	185.77	0.676	0.038	3.17
45.520	22.8978	0.0962444	0.3567775	6	34.4	6.5	0.5	0.15693	185.6	180.7	0.425	1.56	1.00	185.63	0.675	0.038	3.16
45.540	21.1493	0.089004	0.2198844	6	31.4	6.7	0.5	0.15713	170.5	165.5	0.386	1.57	1.00	170.47	0.541	0.038	2.53
45.560	16.5629	0.0660058	0.2085094	6	27.9	7.4	0.5	0.15733	149.7	144.7	0.364	1.61	1.00	149.66	0.392	0.038	1.83
45.580	16.7795	0.0363564	0.1678236	6	23.7	6.7	0.5	0.15753	135.0	130.1	0.235	1.57	1.00	135.02	0.309	0.038	1.45
45.600	15.8127	0.0345852	0.1792102	6	22.5	7.0	0.5	0.15773	127.3	122.4	0.225	1.59	1.00	127.33	0.272	0.038	1.27
45.620	15.0467	0.0371619	0.1780772	6	22.0	7.8	0.5	0.15793	121.1	116.2	0.255	1.63	1.00	121.15	0.245	0.038	1.15
45.640	13.0053	0.0335157	0.4450371	6	20.0	9.0	0.5	0.15813	107.0	102.0	0.261	1.69	1.03	110.00	0.204	0.038	0.95
45.660	13.2386	0.0357234	0.3551347	6	20.4	9.1	0.5	0.15833	108.0	103.1	0.275	1.69	1.03	111.45	0.209	0.037	0.98
45.680	13.6707	0.0547234	0.3631194	6	22.3	10.5	0.5	0.15853	111.6	106.7	0.408	1.75	1.07	119.71	0.240	0.037	1.12
45.700	14.3411	0.085406	0.3516507	6	25.0	12.5	0.5	0.15873	116.6	111.7	0.607	1.82	1.12	131.08	0.289	0.037	1.36
45.720	15.6803	0.0614653	0.3232128	6	24.9	9.2	0.5	0.15893	126.9	122.0	0.400	1.70	1.04	131.46	0.291	0.037	1.37
45.740	16.3911	0.0505144	0.2742111	6	24.7	7.8	0.5	0.15913	132.1	127.1	0.315	1.63	1.00	132.11	0.294	0.037	1.38
45.760	16.8995	0.035492	0.3557861	6	23.8	6.3	0.5	0.15933	136.7	131.7	0.213	1.55	1.00	136.70	0.318	0.037	1.49
45.780	17.3394	0.0309078	0.3585053	6	23.7	5.8	0.5	0.15953	140.1	135.2	0.181	1.52	1.00	140.12	0.336	0.037	1.58
45.800	17.2982	0.0307827	0.3270649	6	23.7	5.8	0.5	0.15973	139.5	134.5	0.181	1.52	1.00	139.46	0.332	0.037	1.56
45.820	17.3894	0.0363439	0.2817454	6	24.5	6.6	0.5	0.15993	139.7	134.8	0.225	1.55	1.00	139.73	0.334	0.037	1.57
45.840	19.2799	0.0564933	0.0081009	6	27.7	6.3	0.5	0.16013	152.4	147.5	0.303	1.57	1.00	152.42	0.409	0.037	1.92
45.860	19.0223	0.1659088	0.1266679	6	34.6	12.6	0.5	0.16033	151.8	146.8	0.892	1.83	1.13	171.31	0.548	0.037	2.57
45.880	18.8881	0.1042996	0.1387342	6	31.1	9.6	0.5	0.16053	156.2	145.2	0.567	1.71	1.05	157.28	0.442	0.037	2.08
45.900	16.6103	0.1039119	0.2113587	6	31.9	9.0	0.5	0.16073	150.3	151.4	0.541	1.69	1.03	161.00	0.468	0.037	2.20
45.920	12.7618	0.0990024	0.3968286	6	24.0	16.0	0.5	0.16093	103.7	98.8	0.790	1.93	1.22	128.86	0.270	0.037	1.27

CPT Verileri														M BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnç	Katıyısı	Sürtünme Katsayısı	Boşluk Suyu Basıncı			%		[MPa]			%					41	2.66
45.940	18.1133	0.1101097	0.3873115	6	30.9	10.4	0.5	0.16113	145.7	140.8	0.616	1.75	1.07	155.83	0.432	0.037	2.03
45.960	17.5752	0.1196535	0.3025641	6	30.7	11.5	0.5	0.16133	140.8	135.8	0.694	1.79	1.10	154.71	0.424	0.037	1.99
45.980	16.9196	0.0907595	0.1549926	6	28.2	10.5	0.5	0.16153	134.3	129.4	0.552	1.75	1.07	143.99	0.368	0.037	1.68
47.000	14.7706	0.0772069	0.1516219	6	25.0	11.7	0.5	0.16173	117.3	112.4	0.540	1.80	1.10	129.60	0.282	0.037	1.33
47.020	14.9334	0.0635854	0.11712793	6	24.3	10.4	0.5	0.16193	118.7	113.7	0.439	1.75	1.07	126.95	0.270	0.037	1.27
47.040	15.0633	0.0554238	0.1056793	6	23.7	9.7	0.5	0.16213	119.1	114.2	0.381	1.72	1.05	124.92	0.261	0.037	1.23
47.060	16.2739	0.0541605	0.0939097	6	24.9	8.5	0.5	0.16233	128.5	123.6	0.344	1.67	1.01	130.34	0.266	0.037	1.35
47.080	15.9748	0.0638043	0.0650515	6	25.3	9.6	0.5	0.16253	125.8	120.8	0.414	1.71	1.05	131.56	0.292	0.037	1.37
47.100	14.3552	0.0590887	0.0779212	6	23.3	10.8	0.5	0.16273	113.1	108.2	0.428	1.76	1.08	122.11	0.249	0.037	1.17
47.120	12.2876	0.0616654	0.1001843	6	21.2	13.7	0.5	0.16293	97.0	92.1	0.525	1.87	1.16	112.41	0.212	0.036	1.00
47.140	14.3701	0.0712467	0.2269655	6	24.3	11.7	0.5	0.16313	114.3	109.3	0.510	1.80	1.10	126.13	0.267	0.036	1.26
47.160	16.1676	0.1046624	0.1892088	6	28.3	12.3	0.5	0.16333	128.0	123.0	0.666	1.82	1.12	143.16	0.353	0.036	1.66
47.180	16.5463	0.0996841	0.2121517	6	28.5	11.5	0.5	0.16353	131.0	126.1	0.618	1.79	1.10	144.01	0.358	0.036	1.68
47.200	13.1562	0.0890521	0.5254792	6	24.3	14.5	0.5	0.16373	106.9	102.0	0.683	1.89	1.18	126.12	0.267	0.036	1.26
47.220	10.3586	0.0818787	0.3817315	6	20.2	19.3	0.5	0.16393	83.9	78.9	0.810	2.02	1.33	111.80	0.210	0.036	0.99
47.240	17.0949	0.114794	0.4303182	6	30.2	11.7	0.5	0.16413	136.8	131.8	0.680	1.80	1.11	151.17	0.401	0.036	1.89
47.260	31.5	0.1035116	0.4931608	6	43.1	4.1	0.5	0.16433	249.6	244.6	0.330	1.40	1.00	249.57	1.526	0.036	4.00
47.280	45.1382	0.1187966	0.4383242	7	53.9	2.3	0.5	0.16453	355.3	350.4	0.264	1.22	1.00	355.32	4.252	0.036	4.00
47.300	45.621	0.3013414	0.3276881	6	71.7	4.9	0.5	0.16473	359.6	354.6	0.662	1.46	1.00	359.56	4.403	0.036	4.00
47.320	35.458	0.3556457	0.0219233	6	63.5	8.8	0.5	0.16493	276.3	271.3	1.021	1.68	1.02	282.93	2.186	0.036	4.00
47.340	18.8732	0.3648017	-0.029486	5	40.7	22.0	0.5	0.16513	146.6	141.7	2.004	2.09	1.43	209.86	0.940	0.036	4.00
47.360	16.5103	0.4626033	0.4516388	5	39.4	29.0	0.5	0.16533	131.9	126.9	2.834	2.23	1.74	230.09	1.213	0.036	4.00
47.380	17.3175	0.443716	0.4246717	5	40.5	26.8	0.5	0.16553	137.9	132.9	2.594	2.19	1.64	226.02	1.154	0.036	4.00
47.400	16.4954	0.4631293	0.1674837	5	42.8	26.6	0.5	0.16573	145.0	140.0	2.681	2.18	1.63	236.23	1.306	0.036	4.00
47.420	18.662	0.4648861	0.0191191	5	42.5	26.0	0.5	0.16593	145.0	140.1	2.577	2.17	1.60	232.04	1.242	0.036	4.00
47.440	17.0125	0.3465585	0.0151254	5	37.4	24.3	0.5	0.16613	132.1	127.1	2.115	2.14	1.53	201.55	0.841	0.036	3.97
47.460	15.47	0.209281	0.5174916	6	32.2	19.4	0.5	0.16633	124.0	119.0	1.364	2.02	1.33	165.35	0.500	0.036	2.36
47.480	12.881	0.1511616	0.4984575	6	26.6	20.3	0.5	0.16653	103.7	98.7	1.187	2.05	1.37	141.74	0.345	0.036	1.63
47.500	11.2903	0.1178398	0.4689715	5	23.1	21.0	0.5	0.16673	91.1	86.1	1.060	2.06	1.39	126.87	0.270	0.036	1.27
47.520	9.7679	0.1371337	0.3336079	5	21.3	27.6	0.5	0.16693	78.2	73.2	1.450	2.20	1.68	130.97	0.289	0.036	1.36
47.540	8.7715	0.1371337	0.3336079	5	19.8	31.4	0.5	0.16713	70.5	65.5	1.619	2.27	1.86	131.10	0.290	0.036	1.37
47.560	8.0115	0.1786584	0.3689004	5	19.5	39.6	0.5	0.16733	64.8	59.8	2.310	2.40	2.32	150.11	0.395	0.036	1.86
47.580	8.6618	0.2209699	0.346624	5	21.9	40.7	0.5	0.16753	70.9	66.0	2.707	2.42	2.38	168.82	0.527	0.036	2.49
47.600	11.3166	0.2209699	0.346624	5	25.9	30.0	0.5	0.16773	90.1	85.1	2.005	2.25	1.79	161.11	0.469	0.036	2.22
47.620	14.7198	0.207042	0.4777238	5	31.1	20.7	0.5	0.16793	117.3	112.3	1.423	2.06	1.38	162.15	0.476	0.036	2.25
47.640	14.888	0.1393769	0.1810513	6	28.5	16.6	0.5	0.16813	116.2	111.2	0.966	1.95	1.24	144.45	0.360	0.036	1.70
47.660	12.2955	0.1438005	0.1428979	5	25.1	21.9	0.5	0.16833	95.9	90.9	1.219	2.08	1.43	136.64	0.318	0.036	1.51
47.680	11.7346	0.1270896	0.1519902	5	23.7	21.7	0.5	0.16853	91.6	86.6	1.131	2.08	1.42	130.13	0.285	0.036	1.35
47.700	15.7846	0.084249	0.5244595	6	27.3	11.2	0.5	0.16873	125.4	120.4	0.538	1.78	1.09	136.88	0.318	0.036	1.51
47.720	17.6935	0.0819662	0.4536762	6	29.2	9.4	0.5	0.16893	139.5	134.5	0.468	1.71	1.04	145.35	0.366	0.036	1.73
47.740	19.7154	0.0890084	0.3564659	6	31.7	8.5	0.5	0.16913	154.2	149.2	0.458	1.68	1.01	158.13	0.434	0.036	2.06

CPT Verileri													M BÖLGESİ					
Derinlik m	qc	q _c	fs	u	Alan No.	Nc	Fc	n	σ'v0 [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
47.800	22.5831	0.0915163	0.2160889	6	34.5	7.0	0.5	0.16973	175.0	170.0	0.413	1.59	1.00		175.00	0.578	0.036	2.66
47.820	22.9635	0.0829356	0.1297553	6	34.2	6.5	0.5	0.16993	177.2	172.2	0.370	1.56	1.00		177.15	0.597	0.036	2.74
47.840	23.1853	0.0806656	0.1792102	6	34.3	6.3	0.5	0.17013	179.1	174.2	0.356	1.55	1.00		179.13	0.615	0.036	2.83
47.860	25.9127	0.0806654	0.2576978	6	36.7	5.2	0.5	0.17033	200.5	195.6	0.316	1.48	1.00		200.52	0.830	0.036	3.94
47.880	25.9127	0.0863379	0.3394711	6	37.3	5.4	0.5	0.17053	201.0	196.1	0.337	1.49	1.00		201.03	0.836	0.036	3.96
47.900	28.1231	0.1020732	0.4156645	6	40.8	5.2	0.5	0.17073	218.4	213.4	0.366	1.48	1.00		218.41	1.049	0.036	4.00
47.920	28.776	0.1221926	0.315905	6	43.0	5.7	0.5	0.17093	222.5	217.5	0.430	1.51	1.00		222.52	1.105	0.036	4.00
47.940	28.3115	0.1268519	0.3323333	6	43.0	6.0	0.5	0.17113	219.0	214.0	0.453	1.55	1.00		218.96	1.056	0.036	4.00
47.960	28.1029	0.1407548	0.5032727	6	44.1	6.5	0.5	0.17133	218.5	213.6	0.504	1.56	1.00		218.55	1.051	0.036	4.00
47.980	29.372	0.1550267	0.5230433	6	46.4	6.4	0.5	0.17153	228.3	223.3	0.530	1.56	1.00		228.26	1.186	0.036	4.00
48.000	32.3396	0.1569717	0.5007518	6	49.4	5.5	0.5	0.17173	250.6	245.6	0.488	1.50	1.00		250.60	1.544	0.036	4.00
48.140	17.5156	0.0273617	0.4555589	6	24.4	5.9	0.5	0.17313	136.6	131.6	0.188	1.53	1.00		136.58	0.317	0.036	1.51
48.160	15.6172	0.0121204	0.5650488	6	21.4	5.8	0.5	0.17333	122.9	117.9	0.078	1.52	1.00		122.91	0.253	0.036	1.20
48.240	10.3647	0.0106072	0.5554467	6	16.0	9.7	0.5	0.17413	82.8	77.8	0.106	1.72	1.05		86.85	0.141	0.035	0.67
48.260	9.5282	0.0240283	0.5428989	6	16.7	12.5	0.5	0.17433	79.3	74.3	0.245	1.82	1.12		89.20	0.146	0.035	0.70
48.300	21.5568	0.050777	0.0011996	6	30.1	5.8	0.5	0.17473	163.1	158.1	0.243	1.52	1.00		163.09	0.483	0.034	2.31
48.320	19.7864	0.0608649	0.0098287	6	29.5	7.3	0.5	0.17493	149.7	144.7	0.318	1.60	1.00		149.68	0.392	0.034	1.87
48.340	16.342	0.1156884	-0.0278715	6	29.4	13.8	0.5	0.17513	123.3	118.3	0.739	1.87	1.16		143.08	0.352	0.034	1.68
48.360	14.1731	0.2245222	-0.0688289	5	30.2	24.6	0.5	0.17533	106.6	101.6	1.689	2.14	1.54		163.95	0.490	0.034	2.34
48.380	10.852	0.2881327	-0.0631923	5	25.9	39.0	0.5	0.17553	81.4	76.5	2.844	2.39	2.28		185.70	0.676	0.034	3.23
48.400	8.2664	0.2881327	-0.0631923	5	21.1	52.8	0.5	0.17573	62.1	57.1	3.804	2.57	3.15		195.89	0.779	0.034	3.72
48.420	6.3699	0.3710496	-0.0245008	4	18.1	78.5	0.7	0.17593	---	---	6.527	2.83	---		---	---	0.034	4.00
48.440	7.3566	0.348416	0.1924944	4	20.5	63.6	0.7	0.17613	---	---	5.056	2.69	---		---	---	0.034	4.00
48.460	9.2192	0.3170266	0.427051	5	24.2	46.6	0.5	0.17633	72.6	67.7	3.528	2.50	2.75		195.77	0.821	0.034	3.93
48.480	10.5146	0.3170266	0.427051	5	26.7	40.5	0.5	0.17653	82.4	77.4	3.084	2.41	2.37		195.21	0.772	0.034	3.69
48.500	11.4568	0.2152286	0.220989	5	26.1	30.5	0.5	0.17673	87.8	82.9	1.954	2.26	1.82		159.45	0.457	0.034	2.19
48.520	11.3087	0.2002626	0.1369498	5	25.4	30.1	0.5	0.17693	86.0	81.1	1.857	2.25	1.79		154.39	0.422	0.034	2.02
48.540	9.2447	0.1790382	0.1090216	5	21.5	36.1	0.5	0.17713	70.3	65.3	2.080	2.35	2.12		148.74	0.386	0.034	1.85
48.560	14.2085	0.1624128	0.479225	6	29.4	19.4	0.5	0.17733	110.9	105.9	1.151	2.03	1.34		148.10	0.362	0.034	1.83
48.580	18.087	0.1503611	0.0933014	6	33.5	14.0	0.5	0.17753	136.4	131.5	0.858	1.87	1.16		158.91	0.453	0.034	2.17
48.600	20.8811	0.1632508	0.0068829	6	37.5	12.0	0.5	0.17773	156.7	151.7	0.807	1.81	1.11		174.32	0.573	0.034	2.74
48.620	20.719	0.1444072	0.0101886	6	36.4	11.3	0.5	0.17793	155.4	150.4	0.720	1.78	1.09		169.82	0.535	0.034	2.56
48.640	20.917	0.1386034	0.034811	6	36.3	10.8	0.5	0.17813	157.0	152.0	0.683	1.76	1.07		169.68	0.534	0.034	2.56
48.660	20.846	0.1323743	0.0554488	6	35.9	10.6	0.5	0.17833	156.5	151.5	0.654	1.75	1.07		168.11	0.522	0.034	2.50
48.680	20.0467	0.1194408	0.0739557	6	34.3	10.5	0.5	0.17853	150.6	145.6	0.614	1.75	1.07		161.55	0.472	0.034	2.26
48.700	19.4464	0.0735295	0.1254216	6	30.6	8.3	0.5	0.17873	146.4	141.4	0.389	1.66	1.01		147.61	0.379	0.034	1.82
48.720	16.6418	0.0586865	0.1932025	6	28.6	7.9	0.5	0.17893	140.8	135.8	0.323	1.63	1.00		140.81	0.340	0.034	1.63
48.740	19.4332	0.0665937	0.2466512	6	30.1	7.9	0.5	0.17913	147.0	142.1	0.350	1.63	1.00		147.04	0.376	0.034	1.80
48.760	20.5957	0.0834422	0.3632355	6	32.8	8.1	0.5	0.17933	156.4	151.5	0.411	1.64	1.00		156.28	0.435	0.034	2.09
48.780	22.2524	0.0873073	0.4432527	6	34.9	7.3	0.5	0.17953	169.5	164.5	0.396	1.60	1.00		169.46	0.533	0.034	2.56
48.800	22.2361	0.0838919	0.4531097	6	32.8	6.2	0.5	0.17973	169.2	164.3	0.290	1.54	1.00		169.24	0.531	0.034	2.55

CPT Verileri													M BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	Q	F [%]	Ic	Kc	(qc1/N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
															41	2.66
48.820	15.4498	0.0542731	0.4904416	6	25.4	9.8	0.5	0.17993	113.9	0.355	1.72	1.05	125.19	0.262	0.034	1.26
48.840	19.8145	0.0347353	0.4617487	6	27.7	5.6	0.5	0.16013	146.1	0.177	1.51	1.00	151.08	0.401	0.034	1.92
48.860	20.2176	0.0314957	0.4514102	6	27.7	5.3	0.5	0.16033	153.9	0.157	1.48	1.00	148.9	0.419	0.034	2.01
48.880	21.2238	0.0351105	0.4687055	6	29.0	5.1	0.5	0.16053	161.4	0.167	1.47	1.00	161.43	0.471	0.034	2.26
48.900	22.9749	0.0371869	0.4940388	6	30.7	4.6	0.5	0.16073	174.6	0.163	1.44	1.00	174.57	0.575	0.034	2.76
48.920	23.4911	0.0582507	0.4764492	6	33.4	5.4	0.5	0.16093	178.2	0.250	1.49	1.00	178.18	0.806	0.034	2.91
48.940	23.8594	0.0704024	0.4675936	6	35.0	5.8	0.5	0.16113	180.7	0.298	1.52	1.00	180.75	0.929	0.034	3.02
48.960	22.5998	0.0702711	0.4680651	6	33.8	6.4	0.5	0.16133	171.3	0.314	1.55	1.00	171.31	0.548	0.034	2.63
48.980	21.2177	0.0579005	0.4211595	6	31.4	6.4	0.5	0.16153	160.6	0.276	1.55	1.00	160.61	0.465	0.034	2.24
49.000	19.8495	0.0580643	0.4171194	6	30.1	7.1	0.5	0.16173	150.3	0.296	1.60	1.00	150.34	0.396	0.034	1.91
49.020	18.0712	0.0547609	0.4108493	6	28.1	8.0	0.5	0.16193	137.0	0.307	1.64	1.00	137.02	0.319	0.034	1.54
49.040	17.8031	0.0627536	0.4637598	6	28.6	8.7	0.5	0.16213	135.4	0.357	1.67	1.02	138.06	0.325	0.034	1.56
49.060	17.1203	0.0696931	0.4437342	6	28.5	8.4	0.5	0.16233	136.5	0.336	1.68	1.01	137.80	0.323	0.034	1.56
49.080	14.7329	0.0486634	0.4876858	6	24.3	10.2	0.5	0.16253	112.7	0.337	1.74	1.06	119.76	0.240	0.034	1.15
49.100	13.1299	0.0767879	0.4426862	6	24.3	14.9	0.5	0.16273	100.4	0.595	1.90	1.19	119.57	0.239	0.034	1.15
49.120	13.3549	0.1029112	0.4933874	6	25.9	16.9	0.5	0.16293	102.3	0.782	1.96	1.25	127.99	0.275	0.033	1.32
49.140	13.4761	0.1337127	0.5057652	6	27.4	19.2	0.5	0.16313	98.3	1.005	2.02	1.33	137.14	0.320	0.033	1.54
49.160	14.0791	0.1521988	0.5113452	6	29.0	19.5	0.5	0.16333	107.8	1.094	2.03	1.34	144.19	0.359	0.033	1.73
49.180	17.1203	0.1896931	0.3388197	6	34.4	17.4	0.5	0.16353	128.9	1.130	1.97	1.27	163.38	0.486	0.033	2.34
49.200	20.8522	0.1583226	0.19595	6	37.8	12.0	0.5	0.16373	155.3	0.777	1.81	1.11	172.61	0.558	0.033	2.69
49.220	26.5911	0.1475342	0.1742817	6	43.7	7.9	0.5	0.16393	197.4	0.565	1.64	1.00	197.55	0.795	0.033	3.83
49.240	28.0197	0.1355264	0.1700046	6	44.4	6.9	0.5	0.16413	207.7	0.493	1.58	1.00	207.74	0.914	0.033	4.00
49.260	26.0784	0.092323	0.1736019	6	39.0	6.1	0.5	0.16433	193.4	0.361	1.54	1.00	188.4	0.752	0.033	3.63
49.280	17.5533	0.0708465	-0.0073644	6	26.6	10.0	0.5	0.16453	129.2	0.420	1.73	1.06	136.54	0.317	0.033	1.53
49.300	18.8592	0.0745176	-0.0336214	6	30.2	9.2	0.5	0.16473	138.5	0.411	1.70	1.04	143.43	0.354	0.033	1.71
49.320	27.6709	0.0633171	-0.0037955	6	39.5	5.3	0.5	0.16493	203.5	0.309	1.49	1.00	198.5	0.363	0.033	4.00
49.340	44.0743	0.0512899	0.0129444	7	46.7	1.7	0.5	0.16513	324.0	0.118	1.14	1.00	324.02	3.244	0.033	4.00
49.360	52.7659	0.0642797	0.0190908	7	52.9	1.3	0.5	0.16533	387.7	0.123	1.07	1.00	387.74	5.501	0.033	4.00
49.380	48.4179	0.1134306	-0.0166249	7	57.9	2.3	0.5	0.16553	355.3	0.238	1.22	1.00	355.34	4.253	0.033	4.00
49.400	37.9927	0.1137433	-0.0045319	6	51.1	3.7	0.5	0.16573	278.7	0.305	1.36	1.00	278.75	2.094	0.033	4.00
49.420	28.4509	0.176103	0.0057216	6	47.6	8.2	0.5	0.16593	208.7	0.634	1.65	1.00	209.43	0.934	0.033	4.00
49.440	13.9494	0.2058412	0.2718035	5	30.3	24.1	0.5	0.16613	104.2	1.520	2.13	1.52	158.30	0.449	0.033	2.17
49.460	11.6242	0.2876136	0.076165	5	27.8	36.8	0.5	0.16633	85.6	3.06	2.36	2.19	184.37	0.653	0.033	3.21
49.480	9.5374	0.3649399	0.0636176	5	25.3	53.3	0.5	0.16653	70.4	4.310	2.58	3.15	224.57	1.133	0.033	4.00
49.500	9.3709	0.3533317	0.2215839	5	24.9	51.2	0.5	0.16673	70.2	3.965	2.55	3.05	213.95	0.991	0.033	4.00
49.520	10.4007	0.3604051	0.2803859	5	27.1	46.0	0.5	0.16693	78.1	3.604	2.49	2.71	211.64	0.962	0.033	4.00
49.540	10.611	0.3225615	0.2196578	5	26.9	42.7	0.5	0.16713	79.2	3.179	2.45	2.51	198.44	0.807	0.033	3.91
49.560	10.618	0.2618592	0.1285657	5	25.7	38.7	0.5	0.16733	78.5	2.602	2.39	2.26	177.69	0.602	0.033	2.91
49.580	9.5602	0.2336282	0.1356751	5	23.4	41.1	0.5	0.16753	70.8	2.592	2.42	2.40	170.28	0.539	0.033	2.61
49.600	9.143	0.1730697	0.1014306	5	21.4	37.4	0.5	0.16773	67.5	2.022	2.37	2.19	147.53	0.379	0.033	1.83
49.620	8.4674	0.1730697	0.1014306	5	20.3	40.7	0.5	0.16793	62.7	2.189	2.42	2.38	149.55	0.390	0.033	1.89

CPT Verileri														M BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Katsayısı	Sürtünme Katsayısı	Boşluk Suyu Basıncı													41	2.66
49.640	7.7197	0.1640326	0.0950859	5	18.8	44.3	0.5	0.18813	57.0	52.0	2.301	2.47	2.60	148.18	0.383	0.033	1.85
49.660	6.2797	0.1526126	0.1178589	5	16.0	53.7	0.5	0.18633	46.6	41.6	2.671	2.58	3.22	149.90	0.393	0.033	1.91
49.680	10.313	0.0968635	0.3070111	5	21.5	23.7	0.5	0.18553	77.3	72.4	0.975	2.13	1.50	116.25	0.226	0.033	1.10
49.700	13.5576	0.0835614	0.4550358	6	25.9	16.2	0.5	0.18873	102.0	97.0	0.702	1.94	1.23	125.40	0.263	0.033	1.28
49.720	11.3175	0.1272272	0.2931036	6	32.2	13.9	0.5	0.18693	128.1	123.1	0.752	1.87	1.16	149.10	0.388	0.033	1.88
49.740	21.2527	0.1132117	0.2368509	6	36.1	9.7	0.5	0.18813	156.3	151.3	0.544	1.72	1.05	164.16	0.491	0.033	2.38
49.760	22.3009	0.1022295	0.2827935	6	36.5	8.5	0.5	0.18933	164.1	159.1	0.467	1.66	1.01	166.33	0.508	0.033	2.47
49.780	21.5282	0.1116232	0.5034993	6	36.6	9.3	0.5	0.18953	160.0	155.0	0.523	1.70	1.04	166.16	0.507	0.033	2.46
49.800	23.5192	0.0920791	0.4984008	6	37.2	7.3	0.5	0.18973	174.4	169.4	0.395	1.80	1.00	174.37	0.573	0.033	2.78
49.820	24.7716	0.0802339	0.4982592	6	37.4	6.2	0.5	0.18993	183.4	178.4	0.326	1.54	1.00	183.36	0.653	0.033	3.17
49.840	24.8742	0.0666312	0.4938122	6	36.2	5.6	0.5	0.19013	184.0	179.0	0.270	1.50	1.00	183.98	0.659	0.033	3.20
49.860	24.6077	0.0604646	0.4968713	6	35.4	5.4	0.5	0.19033	182.0	177.0	0.248	1.49	1.00	181.97	0.640	0.033	3.11
49.880	24.2571	0.0637981	0.4898202	6	35.4	5.7	0.5	0.19053	179.3	174.3	0.265	1.51	1.00	179.28	0.616	0.033	2.99
49.900	23.3693	0.0638106	0.4789418	6	34.6	6.0	0.5	0.19073	172.7	167.7	0.276	1.53	1.00	172.68	0.599	0.033	2.72
49.920	24.7602	0.0603083	0.5032727	6	35.5	5.4	0.5	0.19093	182.8	177.8	0.245	1.49	1.00	182.83	0.648	0.033	3.15
49.940	25.8556	0.0552237	0.505567	6	35.9	4.8	0.5	0.19113	190.7	185.7	0.215	1.45	1.00	190.69	0.725	0.033	3.53
49.960	27.0977	0.0540479	0.5017148	6	36.8	4.4	0.5	0.19133	199.5	194.5	0.201	1.42	1.00	199.53	0.819	0.033	3.98
49.980	27.5692	0.0541173	0.5012333	6	37.2	4.3	0.5	0.19153	202.8	197.8	0.198	1.41	1.00	202.83	0.856	0.033	4.00
50.000	26.1995	0.0553688	0.5029894	6	37.9	4.2	0.5	0.19173	207.3	202.3	0.198	1.40	1.00	207.28	0.908	0.033	4.00
50.020	29.0363	0.0534338	0.5056502	6	38.4	3.9	0.5	0.19193	213.6	208.6	0.185	1.38	1.00	213.60	0.986	0.033	4.00
50.040	29.8847	0.0542366	0.501998	6	39.1	3.7	0.5	0.19213	219.2	214.2	0.183	1.37	1.00	219.22	1.080	0.033	4.00
50.060	26.2887	0.05192715	0.5216554	6	36.0	4.5	0.5	0.19233	193.3	188.3	0.199	1.43	1.00	193.32	0.752	0.033	3.66
50.080	29.7016	0.0531849	0.5153956	6	38.9	3.7	0.5	0.19253	217.8	212.8	0.180	1.37	1.00	217.77	1.040	0.033	4.00
50.100	29.7305	0.0574189	0.496568	6	39.4	3.9	0.5	0.19273	217.7	212.7	0.194	1.36	1.00	217.73	1.040	0.033	4.00
50.120	29.574	0.0646674	0.4917445	6	40.1	4.2	0.5	0.19293	216.0	211.0	0.221	1.41	1.00	216.03	1.018	0.033	4.00
50.140	29.1801	0.0728665	0.4818609	6	40.8	4.6	0.5	0.19313	213.4	208.4	0.252	1.44	1.00	213.44	0.984	0.033	4.00
50.160	28.5017	0.0937552	0.4942371	6	42.4	5.5	0.5	0.19333	208.5	203.5	0.331	1.50	1.00	208.54	0.923	0.033	4.00
50.180	28.3957	0.098851	0.4972678	6	42.6	5.6	0.5	0.19353	207.7	202.7	0.343	1.51	1.00	207.69	0.913	0.033	4.00
50.200	28.3264	0.0991838	0.4963898	6	42.7	5.7	0.5	0.19373	207.1	202.1	0.353	1.52	1.00	207.08	0.906	0.033	4.00
50.220	28.3475	0.0991838	0.4931608	6	42.8	5.7	0.5	0.19393	207.1	202.1	0.352	1.52	1.00	207.10	0.906	0.033	4.00
50.240	28.2958	0.0925419	0.5019131	6	42.1	5.5	0.5	0.19413	206.7	201.7	0.329	1.50	1.00	206.69	0.901	0.033	4.00
50.260	28.1699	0.0891772	0.4952588	6	41.7	5.5	0.5	0.19433	205.6	200.6	0.319	1.50	1.00	205.61	0.888	0.033	4.00
50.280	27.7173	0.089934	0.4954551	6	41.4	5.6	0.5	0.19453	202.3	197.3	0.327	1.51	1.00	202.28	0.850	0.033	4.00
50.300	27.2328	0.0908408	0.4806413	6	41.0	5.9	0.5	0.19473	198.7	193.7	0.336	1.52	1.00	198.74	0.810	0.033	3.96
50.320	26.6507	0.0893211	0.4765342	6	40.4	6.0	0.5	0.19493	194.3	189.3	0.338	1.53	1.00	194.30	0.782	0.033	3.72
50.340	20.3219	0.0776009	0.5490453	6	33.2	8.5	0.5	0.19513	149.4	144.4	0.365	1.66	1.01	151.32	0.402	0.033	1.96
50.360	23.7365	0.0699021	0.4945487	6	35.9	6.3	0.5	0.19533	173.7	168.7	0.296	1.55	1.00	173.73	0.568	0.033	2.77
50.380	23.5174	0.0629788	0.4887138	6	35.0	6.1	0.5	0.19553	171.7	166.7	0.270	1.54	1.00	171.68	0.551	0.033	2.69
50.400	24.2089	0.0650173	0.4957949	6	34.8	5.5	0.5	0.19573	176.6	171.6	0.229	1.50	1.00	176.58	0.592	0.033	2.89
50.420	24.9837	0.0445792	0.5070965	6	34.4	4.7	0.5	0.19593	182.1	177.1	0.180	1.45	1.00	182.11	0.642	0.033	3.14
50.440	27.0276	0.0445542	0.5047455	6	36.1	4.2	0.5	0.19613	196.6	191.6	0.166	1.40	1.00	196.59	0.787	0.033	3.85

CPT Verileri														M BÖLGESİ			
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v_0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N) ^{0.5}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
50.460	27.7033	0.0460489	0.5032443	6	36.8	4.1	0.5	0.19633	201.3	196.3	0.167	1.40	1.00	201.31	0.839	0.033	2.66
50.480	26.0635	0.0490009	0.5040658	6	37.5	4.1	0.5	0.19653	203.8	198.8	0.176	1.40	1.00	203.78	0.867	0.033	4.00
50.500	27.9417	0.0514087	0.501205	6	37.7	4.2	0.5	0.19673	202.8	197.8	0.185	1.41	1.00	202.79	0.856	0.033	4.00
50.520	27.7953	0.0665637	0.5007518	6	39.3	4.8	0.5	0.19693	201.6	196.6	0.241	1.45	1.00	201.64	0.842	0.033	4.00
50.540	27.7434	0.0687388	0.494662	6	39.5	4.9	0.5	0.19713	201.1	196.1	0.250	1.46	1.00	201.14	0.837	0.033	4.00
50.560	27.6803	0.0696519	0.491178	6	39.5	5.0	0.5	0.19733	200.4	195.4	0.254	1.47	1.00	200.40	0.829	0.033	4.00
50.580	27.6823	0.0693267	0.4882323	6	39.5	5.0	0.5	0.19753	200.4	195.4	0.252	1.47	1.00	200.44	0.829	0.033	4.00
50.600	27.7331	0.0734819	0.4974095	6	40.0	5.1	0.5	0.19773	200.8	195.8	0.267	1.48	1.00	200.76	0.833	0.033	4.00
50.640	26.6796	0.0766815	0.505397	6	39.5	5.6	0.5	0.19813	193.1	188.1	0.290	1.51	1.00	193.13	0.750	0.033	3.67
50.660	26.9111	0.0737484	0.4894219	6	39.4	5.4	0.5	0.19833	194.6	189.6	0.276	1.50	1.00	194.56	0.765	0.033	3.75
50.680	27.0635	0.0699896	0.4921127	6	39.1	5.2	0.5	0.19853	195.6	190.6	0.261	1.48	1.00	195.57	0.776	0.033	3.80
50.700	26.9951	0.0705775	0.4932741	6	39.2	5.3	0.5	0.19873	195.0	190.0	0.264	1.49	1.00	194.99	0.770	0.033	3.77
50.720	26.5534	0.0749241	0.4786302	6	39.2	5.6	0.5	0.19893	191.7	186.7	0.285	1.51	1.00	191.66	0.735	0.033	3.60
50.740	26.053	0.072779	0.4774122	6	38.6	5.7	0.5	0.19913	188.0	183.0	0.282	1.51	1.00	188.01	0.698	0.033	3.42
50.760	25.9548	0.0701085	0.4969563	6	38.2	5.6	0.5	0.19933	187.4	182.3	0.272	1.51	1.00	187.36	0.692	0.033	3.39
50.780	26.2791	0.0664261	0.502083	6	38.4	5.4	0.5	0.19953	189.6	184.6	0.262	1.50	1.00	189.59	0.714	0.033	3.50
50.800	26.5639	0.0654054	0.5045473	6	38.3	5.2	0.5	0.19973	191.5	186.5	0.248	1.48	1.00	191.53	0.733	0.033	3.60
50.820	25.8715	0.0678195	0.4877791	6	38.0	5.6	0.5	0.19993	188.4	181.4	0.264	1.51	1.00	186.42	0.683	0.033	3.35
50.840	22.6611	0.0692642	0.4660257	6	35.1	7.0	0.5	0.20013	163.5	158.5	0.309	1.59	1.00	163.48	0.486	0.033	2.39
50.860	20.0397	0.0794208	0.4284389	6	33.2	9.1	0.5	0.20033	144.6	139.6	0.402	1.69	1.03	149.16	0.389	0.033	1.91
50.880	17.7899	0.0990525	0.3758683	6	32.0	12.2	0.5	0.20053	128.3	123.3	0.567	1.81	1.12	143.28	0.354	0.033	1.74
50.900	16.1054	0.101773	0.5427006	6	29.0	15.3	0.5	0.20073	110.4	105.4	0.681	1.91	1.20	132.81	0.298	0.033	1.46
50.920	13.4621	0.1153444	0.4787435	6	27.3	19.1	0.5	0.20093	98.3	93.3	0.872	2.02	1.32	130.29	0.286	0.033	1.40
50.940	11.9213	0.1193845	0.4080168	5	25.2	22.8	0.5	0.20113	86.9	81.9	1.028	2.11	1.47	127.44	0.272	0.033	1.34
50.960	11.8538	0.1612182	0.422604	5	26.5	26.8	0.5	0.20133	86.5	81.5	1.394	2.19	1.64	141.73	0.345	0.033	1.69
50.980	10.8713	0.1938271	0.5901161	5	26.0	32.1	0.5	0.20153	80.7	75.7	1.803	2.28	1.90	153.26	0.415	0.033	2.04
51.130	22.2133	0.0097564	0.5722149	6	29.7	4.6	0.5	0.20303	159.9	154.9	0.044	1.44	1.00	159.91	0.460	0.033	2.27
51.150	22.4175	0.0144595	0.5650488	6	29.8	4.5	0.5	0.20323	161.2	156.2	0.065	1.43	1.00	161.21	0.470	0.033	2.31
51.170	16.3771	0.2722097	0.5208056	6	41.7	19.5	0.5	0.20343	139.5	134.5	1.419	2.03	1.34	187.01	0.688	0.033	3.39
51.190	20.9074	0.2229149	0.4405052	6	42.1	15.7	0.5	0.20363	149.6	144.6	1.080	1.93	1.22	181.91	0.640	0.038	4.00
51.210	21.7777	0.1931141	0.2738145	6	41.9	13.8	0.5	0.20383	154.5	149.4	0.905	1.87	1.16	179.12	0.614	0.038	4.00
51.230	22.3746	0.1797178	0.2531699	6	42.0	12.7	0.5	0.20403	158.4	153.4	0.820	1.83	1.13	179.14	0.615	0.038	4.00
51.250	21.6927	0.1687732	0.1830057	6	40.5	12.9	0.5	0.20423	153.1	148.1	0.797	1.84	1.13	173.71	0.567	0.038	4.00
51.270	21.0827	0.1521748	0.2988535	6	39.1	12.5	0.5	0.20443	149.5	144.5	0.736	1.82	1.12	168.23	0.523	0.038	4.00
51.290	16.2983	0.147209	0.3893509	6	36.7	13.8	0.5	0.20463	137.6	132.6	0.776	1.87	1.16	159.70	0.459	0.038	4.00
51.310	16.5002	0.0664311	0.4591712	6	30.3	9.8	0.5	0.20483	129.3	124.3	0.373	1.72	1.05	136.31	0.316	0.038	4.00
51.330	16.2702	0.0515213	0.4481245	6	27.2	10.2	0.5	0.20503	116.8	111.7	0.322	1.74	1.06	124.13	0.258	0.038	2.48
51.350	16.0229	0.0399535	0.5036126	6	25.4	8.8	0.5	0.20523	115.2	110.2	0.215	1.68	1.02	117.82	0.232	0.038	2.74
51.370	16.5226	0.0399535	0.5036126	6	25.9	8.4	0.5	0.20543	118.8	113.8	0.208	1.66	1.01	120.03	0.241	0.038	2.37
51.390	12.7416	0.041489	0.5394149	6	22.5	13.0	0.5	0.20563	92.6	87.6	0.333	1.84	1.14	105.36	0.189	0.038	2.54
51.410	17.7706	0.0593389	0.5151973	6	29.6	9.5	0.5	0.20583	127.5	122.4	0.338	1.71	1.05	133.25	0.300	0.038	2.59

CPT Verileri													M BÖLGESİ						
Derinlik m	qc	Koni Uç Direnci	fs	Sürtünme Katsayısı	Boşluk Suyu Basıncı	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
51.430	18.9231	0.055724	0.5191345	0.5140544	6	30.5	8.5	0.5	0.20603	135.5	130.4	0.298	1.66	1.01	137.16	0.320	0.038	2.66	2.51
51.450	19.6576	0.0514963	0.5140544	0.5107787	6	30.9	7.7	0.5	0.20623	140.5	135.4	0.265	1.63	1.00	140.46	0.338	0.038	2.29	1.82
51.470	20.4376	0.0583945	0.4872692	0.4872692	6	32.3	7.7	0.5	0.20643	145.8	140.8	0.289	1.63	1.00	145.80	0.368	0.038	1.82	1.82
51.490	20.3368	0.0576263	0.4776572	0.4776572	6	32.1	7.8	0.5	0.20663	144.9	139.8	0.287	1.63	1.00	144.87	0.363	0.038	1.69	1.69
51.510	19.6944	0.0539666	0.4692831	0.4692831	6	30.2	8.6	0.5	0.20703	133.5	128.4	0.298	1.67	1.00	135.80	0.313	0.038	1.71	1.71
51.530	18.733	0.0550423	0.4775255	0.4775255	6	27.7	10.0	0.5	0.20723	118.6	113.6	0.320	1.73	1.06	125.61	0.264	0.038	1.44	1.44
51.550	16.5918	0.052228	0.4954267	0.4954267	6	26.8	10.1	0.5	0.20743	114.8	109.8	0.303	1.74	1.06	121.95	0.249	0.038	1.42	1.42
51.570	16.0449	0.0478751	0.4823691	0.4823691	6	26.8	11.2	0.5	0.20763	111.6	106.5	0.356	1.78	1.09	121.66	0.247	0.038	1.44	1.44
51.590	15.5918	0.0547234	0.4863062	0.4863062	6	25.5	12.5	0.5	0.20783	103.5	98.5	0.386	1.82	1.12	116.37	0.227	0.038	1.51	1.51
51.610	14.4384	0.0547859	0.5017431	0.5017431	6	25.1	11.9	0.5	0.20803	103.6	98.6	0.349	1.80	1.11	114.96	0.221	0.038	1.54	1.54
51.630	14.4384	0.04957	0.5160188	0.5160188	6	25.3	11.7	0.5	0.20823	104.6	99.6	0.340	1.80	1.10	115.41	0.223	0.038	1.61	1.61
51.650	12.5024	0.0603583	0.5525859	0.5525859	6	23.6	15.7	0.5	0.20843	90.4	85.4	0.490	1.93	1.21	109.84	0.203	0.038	1.74	1.74
51.690	10.852	0.069014	0.4960782	0.4960782	6	21.9	20.1	0.5	0.20863	78.6	73.5	0.650	2.04	1.36	105.92	0.194	0.038	2.13	2.13
51.710	8.6601	0.0690453	0.5099006	0.5099006	5	18.8	26.4	0.5	0.20883	63.5	58.4	0.818	2.18	1.62	102.81	0.181	0.038	2.40	2.40
51.730	8.0623	0.1078582	0.5204091	0.5204091	5	19.2	35.0	0.5	0.20903	59.4	54.3	1.373	2.33	2.05	121.85	0.248	0.038	3.04	3.04
51.750	8.8879	0.129286	0.5534073	0.5534073	5	21.2	34.0	0.5	0.20923	65.3	60.2	1.483	2.32	2.00	130.41	0.286	0.038	3.48	3.48
51.770	11.5102	0.129266	0.5534073	0.5534073	5	25.4	25.2	0.5	0.20943	83.4	78.3	1.140	2.16	1.56	130.43	0.286	0.038	4.00	4.00
51.790	14.1396	0.1225929	0.1304351	0.1304351	6	28.4	19.8	0.5	0.20963	98.6	93.5	0.905	2.03	1.35	132.85	0.298	0.038	4.00	4.00
51.810	16.6225	0.1312173	0.0165549	0.0165549	6	32.1	16.7	0.5	0.20983	114.9	109.8	0.825	1.95	1.24	142.99	0.352	0.038	4.00	4.00
51.830	20.3956	0.1450138	0.0011047	0.0011047	6	37.7	13.3	0.5	0.21003	140.7	135.7	0.737	1.85	1.15	161.35	0.471	0.038	3.44	3.44
51.850	21.9118	0.1438256	-0.0084974	-0.0084974	6	39.5	11.9	0.5	0.21023	151.1	146.0	0.679	1.81	1.11	167.74	0.519	0.038	3.19	3.19
51.870	23.3668	0.1382344	-0.0047869	-0.0047869	6	41.1	10.6	0.5	0.21043	161.2	156.2	0.610	1.75	1.07	173.24	0.564	0.038	2.83	2.83
51.890	24.5394	0.0806904	0.0262286	0.0262286	6	38.2	7.2	0.5	0.21063	169.3	164.2	0.339	1.60	1.00	169.27	0.531	0.038	2.78	2.78
51.910	22.7172	0.0516464	0.0373319	0.0373319	6	33.7	6.6	0.5	0.21083	156.7	151.7	0.294	1.57	1.00	156.71	0.438	0.038	2.99	2.99
51.930	22.7172	0.0431658	0.0519474	0.0519474	6	32.8	6.1	0.5	0.21103	156.7	151.7	0.196	1.54	1.00	156.74	0.438	0.038	3.13	3.13
51.950	16.2062	0.0658744	0.5304077	0.5304077	6	28.6	11.7	0.5	0.21123	115.2	110.1	0.412	1.80	1.10	127.11	0.271	0.038	2.80	2.80
51.970	14.3481	0.0804277	0.5004885	0.5004885	6	27.2	15.2	0.5	0.21143	102.1	97.1	0.570	1.91	1.20	122.67	0.252	0.038	2.61	2.61
51.990	12.7627	0.1935519	0.4255498	0.4255498	5	29.2	27.9	0.5	0.21163	90.7	85.6	1.554	2.21	1.69	153.28	0.415	0.038	2.43	2.43
52.010	22.1178	0.260846	0.5927503	0.5927503	6	45.9	16.4	0.5	0.21183	156.0	151.0	1.187	1.95	1.24	192.90	0.747	0.038	2.25	2.25

CPT Verileri														N BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{vo} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs CRR	Oturma [mm]	FL Güvenlik Katsayısı	
42.640	10.6657	0.016811	0.4204797	6	14.2	6.7	0.5	0.11713	102.3	97.3	0.160	1.57	1.00	102.34	0.180	0.049	0.70
42.660	10.6724	0.016859	0.4088382	6	14.2	6.7	0.5	0.11733	102.3	97.3	0.158	1.57	1.00	102.30	0.180	0.048	0.70
42.680	10.398	0.0195941	0.3980182	6	14.3	7.4	0.5	0.11753	99.6	94.6	0.191	1.61	1.00	99.59	0.172	0.048	0.67
42.600	10.1404	0.028525	0.4244734	6	14.9	8.9	0.5	0.11773	97.4	92.4	0.265	1.68	1.03	99.81	0.172	0.047	0.67
42.620	10.3709	0.0337096	0.4220858	6	15.5	9.3	0.5	0.11793	99.4	94.4	0.329	1.70	1.04	103.09	0.182	0.047	0.71
42.640	10.6364	0.0333031	0.4113025	6	15.8	8.9	0.5	0.11813	101.6	96.6	0.317	1.68	1.03	104.34	0.186	0.047	0.72
42.660	11.3288	0.0294818	0.4188368	6	16.1	7.7	0.5	0.11833	108.0	103.0	0.263	1.63	1.00	107.99	0.197	0.046	0.77
42.680	11.6382	0.0308327	0.4131152	6	16.4	7.6	0.5	0.11853	110.7	105.7	0.268	1.62	1.00	110.89	0.206	0.046	0.80
42.700	12.044	0.0325463	0.3962904	6	16.9	7.4	0.5	0.11873	114.2	109.2	0.274	1.61	1.00	114.17	0.218	0.045	0.85
42.720	12.0904	0.0337471	0.3928631	6	17.1	7.5	0.5	0.11893	114.5	109.5	0.283	1.61	1.00	114.47	0.219	0.045	0.85
42.740	11.796	0.0358923	0.4001426	6	17.0	8.0	0.5	0.11913	111.7	106.7	0.308	1.64	1.00	111.36	0.208	0.045	0.81
42.760	11.6224	0.0352231	0.4092348	6	16.9	8.1	0.5	0.11933	110.1	105.1	0.307	1.65	1.00	110.20	0.204	0.044	0.80
42.780	11.2359	0.0354545	0.4076769	6	16.5	8.6	0.5	0.11953	106.5	101.5	0.320	1.67	1.02	108.19	0.198	0.044	0.77
42.800	10.2937	0.0317771	0.4011339	6	15.4	9.3	0.5	0.11973	97.7	92.7	0.313	1.70	1.04	101.43	0.177	0.044	0.69
42.820	9.8618	0.0313205	0.3940811	6	14.8	10.1	0.5	0.11993	91.8	86.8	0.328	1.74	1.06	97.49	0.166	0.043	0.65
42.840	9.6469	0.0309953	0.4087816	6	14.7	10.1	0.5	0.12013	91.7	86.7	0.326	1.73	1.06	97.33	0.166	0.043	0.65
42.860	9.7556	0.0308828	0.3980182	6	14.8	10.0	0.5	0.12033	92.6	87.6	0.322	1.73	1.06	97.83	0.167	0.042	0.65
42.880	10.1421	0.0336471	0.4203947	6	15.4	9.8	0.5	0.12053	96.2	91.2	0.336	1.72	1.05	101.20	0.176	0.042	0.69
42.900	10.2122	0.0379061	0.4010773	6	15.8	10.3	0.5	0.12073	96.6	91.6	0.377	1.74	1.07	102.96	0.181	0.041	0.71
42.920	9.6937	0.0395535	0.4007374	6	15.0	10.5	0.5	0.12093	91.7	86.7	0.356	1.75	1.07	98.41	0.169	0.041	0.66
42.940	9.7048	0.030495	0.3805985	6	14.8	10.1	0.5	0.12113	91.6	86.6	0.320	1.73	1.06	97.13	0.165	0.041	0.65
42.960	10.1579	0.0331405	0.3813916	6	15.4	9.8	0.5	0.12133	95.7	90.7	0.332	1.72	1.05	100.72	0.175	0.040	0.69
42.980	10.4822	0.0386866	0.3850172	6	16.2	10.1	0.5	0.12153	98.8	93.8	0.375	1.73	1.06	104.54	0.186	0.040	0.73
43.000	10.5602	0.0384677	0.3471754	6	16.1	9.8	0.5	0.12173	98.9	93.9	0.352	1.72	1.05	103.97	0.185	0.039	0.72
43.020	10.8818	0.0448732	0.3988879	6	17.0	10.3	0.5	0.12193	102.2	97.2	0.418	1.74	1.07	108.94	0.200	0.039	0.79
43.040	11.0045	0.0501016	0.4022103	6	17.5	10.7	0.5	0.12213	103.2	98.2	0.462	1.76	1.08	111.28	0.208	0.038	0.82
43.060	11.3972	0.0461115	0.4114441	6	17.7	9.8	0.5	0.12233	108.8	101.8	0.410	1.72	1.05	112.31	0.212	0.038	0.83
43.080	11.9704	0.0428031	0.4148147	6	18.0	8.8	0.5	0.12253	111.9	106.9	0.362	1.68	1.02	114.38	0.219	0.038	0.86
43.100	12.4936	0.0414084	0.4027201	6	18.3	8.1	0.5	0.12273	116.4	111.4	0.335	1.65	1.00	116.48	0.227	0.037	0.89
43.120	12.81	0.0434472	0.4120956	6	18.8	8.0	0.5	0.12293	119.3	114.3	0.343	1.64	1.00	118.89	0.236	0.037	0.93
43.140	13.5199	0.0468182	0.4214144	6	19.7	7.7	0.5	0.12313	125.6	120.6	0.350	1.62	1.00	125.64	0.264	0.037	1.04
43.160	13.9213	0.0478189	0.4213294	6	20.2	7.4	0.5	0.12333	129.1	124.1	0.347	1.61	1.00	129.15	0.280	0.037	1.11
43.180	14.4814	0.0537685	0.408684	6	21.2	7.5	0.5	0.12353	134.0	129.0	0.375	1.61	1.00	133.97	0.304	0.037	1.20
43.200	14.5638	0.0586322	0.400794	6	21.6	7.8	0.5	0.12373	134.5	129.5	0.407	1.63	1.00	134.53	0.306	0.037	1.21
43.220	14.725	0.0612902	0.4015588	6	22.0	7.9	0.5	0.12393	135.9	130.9	0.421	1.63	1.00	135.88	0.313	0.037	1.24
43.240	14.8731	0.0610963	0.4020403	6	22.1	7.7	0.5	0.12413	137.1	132.1	0.415	1.63	1.00	137.10	0.320	0.037	1.26
43.260	14.9126	0.0620282	0.4153246	6	22.2	7.8	0.5	0.12433	137.5	132.5	0.420	1.63	1.00	137.47	0.322	0.037	1.27
43.280	15.0563	0.0632477	0.4221225	6	22.5	7.8	0.5	0.12453	138.7	133.7	0.424	1.63	1.00	138.70	0.328	0.037	1.30
43.300	15.0467	0.067413	0.4224907	6	22.8	8.1	0.5	0.12473	138.5	133.5	0.452	1.64	1.00	138.44	0.327	0.036	1.30

CPT Verileri													N BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																49	2.46
43.320	14.2254	0.0681509	0.4276741	6	22.1	8.9	0.5	0.12493	131.1	126.1	0.484	1.68	1.03	134.42	0.306	0.036	1.21
43.340	13.8591	0.0683073	0.4116424	6	21.7	9.3	0.5	0.12513	127.6	122.6	0.498	1.70	1.04	132.33	0.296	0.036	1.17
43.360	13.6699	0.0679696	0.4116061	6	21.5	9.5	0.5	0.12533	124.9	119.9	0.506	1.71	1.05	130.60	0.287	0.036	1.14
43.380	13.7504	0.0691641	0.4242185	6	21.7	9.5	0.5	0.12553	128.5	121.5	0.508	1.71	1.04	131.94	0.294	0.036	1.17
43.400	13.9678	0.0678445	0.4246434	6	21.9	9.2	0.5	0.12573	128.4	123.4	0.490	1.69	1.03	132.70	0.297	0.036	1.18
43.440	13.8915	0.0494074	0.4025218	6	20.4	7.8	0.5	0.12613	127.3	122.3	0.380	1.63	1.00	127.29	0.272	0.036	1.08
43.460	14.1404	0.0464688	0.3893792	6	20.4	7.3	0.5	0.12633	129.3	124.3	0.333	1.61	1.00	129.27	0.281	0.036	1.12
43.480	14.0931	0.0365378	0.3714497	6	19.7	6.7	0.5	0.12653	128.6	123.6	0.277	1.58	1.00	128.59	0.278	0.036	1.11
43.500	14.3928	0.0376622	0.3707415	6	19.9	6.5	0.5	0.12673	131.1	126.1	0.265	1.56	1.00	131.14	0.280	0.036	1.16
43.520	14.9564	0.0385315	0.3458158	6	20.4	6.2	0.5	0.12693	135.8	130.8	0.261	1.54	1.00	135.82	0.313	0.036	1.25
43.540	14.2281	0.0605647	0.3140356	6	21.8	8.5	0.5	0.12713	129.0	124.0	0.433	1.67	1.01	130.85	0.288	0.036	1.15
43.560	14.3236	0.0387254	0.3084556	6	19.9	6.7	0.5	0.12733	129.7	124.7	0.275	1.57	1.00	129.87	0.283	0.035	1.13
43.580	14.3499	0.0397073	0.1748482	6	19.9	6.9	0.5	0.12753	128.6	123.6	0.284	1.58	1.00	128.82	0.278	0.035	1.11
43.600	14.5103	0.036524	0.2396134	6	19.8	6.4	0.5	0.12773	130.5	125.5	0.257	1.56	1.00	130.51	0.287	0.035	1.15
43.620	14.9064	0.0353544	0.3174912	6	20.1	6.0	0.5	0.12793	134.6	129.6	0.241	1.53	1.00	134.60	0.307	0.035	1.23
43.640	15.5059	0.0404328	0.3541433	6	21.1	6.0	0.5	0.12813	140.1	135.1	0.264	1.53	1.00	140.11	0.336	0.035	1.35
43.660	15.9757	0.0448982	0.3820431	6	21.9	6.1	0.5	0.12833	144.4	139.4	0.264	1.54	1.00	144.40	0.360	0.035	1.44
43.680	14.9985	0.0640067	0.3600915	6	22.7	8.2	0.5	0.12853	135.5	130.5	0.433	1.65	1.00	135.82	0.313	0.035	1.26
43.720	13.5366	0.02855	0.3392728	6	18.4	6.4	0.5	0.12893	122.2	117.2	0.215	1.56	1.00	122.20	0.250	0.035	1.00
43.740	13.2903	0.0318564	0.3453626	6	18.5	6.9	0.5	0.12913	120.0	115.0	0.244	1.59	1.00	119.99	0.241	0.035	0.97
43.760	13.0133	0.0363238	0.3056515	6	18.6	7.8	0.5	0.12933	117.1	112.1	0.265	1.62	1.00	117.12	0.229	0.035	0.92
43.780	13.2491	0.0369492	0.334316	6	18.9	7.5	0.5	0.12953	119.4	114.4	0.264	1.61	1.00	119.35	0.238	0.034	0.96
43.800	14.1474	0.0392507	0.3945426	6	19.9	7.0	0.5	0.12973	127.1	122.2	0.262	1.59	1.00	127.15	0.271	0.034	1.09
43.820	13.2719	0.0560242	0.3981598	6	20.6	9.2	0.5	0.12993	119.9	114.9	0.428	1.70	1.03	124.10	0.258	0.034	1.04
43.840	13.5147	0.0425279	0.3984431	6	19.8	7.8	0.5	0.13013	122.0	117.0	0.319	1.63	1.00	121.97	0.249	0.034	1.00
43.871	12.9293	0.0207624	0.3194456	6	17.1	6.2	0.5	0.13044	119.0	111.0	0.164	1.54	1.00	115.99	0.225	0.034	0.91
43.880	11.7101	0.0092304	0.3709832	6	15.0	5.9	0.5	0.13053	105.7	100.8	0.071	1.53	1.00	105.74	0.190	0.034	0.77
43.900	11.675	0.0136402	0.3754434	6	15.4	6.4	0.5	0.13073	105.4	100.4	0.119	1.55	1.00	105.39	0.189	0.033	0.76
43.920	12.108	0.0257356	0.3831761	6	17.0	7.4	0.5	0.13099	109.2	104.2	0.216	1.61	1.00	109.17	0.201	0.033	0.81
43.940	11.9406	0.0407267	0.3370636	6	16.2	9.3	0.5	0.13113	107.6	102.2	0.348	1.70	1.04	111.23	0.208	0.033	0.84
43.960	11.9397	0.07822	0.393118	6	20.6	13.0	0.5	0.13133	107.6	102.6	0.665	1.84	1.14	122.50	0.251	0.032	1.02
43.980	11.5865	0.0505582	0.4210745	6	18.6	10.7	0.5	0.13153	104.7	99.7	0.442	1.76	1.08	112.80	0.213	0.032	0.87
44.000	12.0308	0.0417149	0.4199132	6	18.4	9.2	0.5	0.13173	108.5	103.5	0.351	1.70	1.04	112.39	0.212	0.032	0.86
44.020	13.2741	0.0325213	0.3477136	6	18.3	7.6	0.5	0.13193	114.2	109.3	0.259	1.62	1.00	114.24	0.219	0.032	0.89
44.040	13.8959	0.0506895	0.4024368	6	20.9	8.3	0.5	0.13213	128.4	119.4	0.369	1.65	1.01	125.07	0.262	0.031	1.06
44.060	14.3657	0.0688126	0.1566921	6	22.3	9.4	0.5	0.13233	126.2	121.3	0.479	1.70	1.04	131.39	0.291	0.031	1.18
44.080	15.2719	0.0633666	0.2216405	6	23.0	8.2	0.5	0.13253	134.6	129.6	0.425	1.65	1.01	135.29	0.310	0.031	1.26
44.100	14.7496	0.0721661	0.2049573	6	23.1	9.4	0.5	0.13273	129.8	124.8	0.502	1.71	1.04	135.16	0.310	0.031	1.26
44.120	15.6777	0.0533475	0.2323756	6	22.6	7.2	0.5	0.13293	138.0	133.0	0.348	1.60	1.00	137.99	0.324	0.031	1.32

CPT Verileri														N BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/es	CRR	Oturma [mm]	FL Güvenlik Katsayısı
44.140	16.2386	0.0568123	0.2978339	6	23.5	7.0	0.5	0.13313	143.3	138.3	0.356	1.59	1.00	143.32	0.354	0.031	2.46
44.160	17.406	0.0565058	0.3398393	6	24.5	6.3	0.5	0.13333	153.7	148.7	0.329	1.55	1.00	153.89	0.418	0.031	1.44
44.180	19.6313	0.0486319	0.2367376	6	25.4	4.8	0.5	0.13353	171.9	187.0	0.252	1.45	1.00	171.94	0.553	0.031	1.70
44.200	20.2702	0.068201	0.1691266	6	27.8	5.5	0.5	0.13373	178.7	171.8	0.343	1.50	1.00	176.75	0.593	0.031	2.26
44.220	21.2615	0.0900163	-0.02909894	6	30.3	6.2	0.5	0.13383	183.5	178.5	0.436	1.54	1.00	183.47	0.654	0.031	2.42
44.240	19.662	0.1614684	0.1162728	6	33.3	10.3	0.5	0.13413	179.8	165.8	0.641	1.74	1.07	182.17	0.642	0.031	2.67
44.260	25.0836	0.1108164	0.4390323	6	35.8	5.2	0.5	0.13433	229.2	215.2	0.444	1.48	1.00	220.21	1.073	0.031	2.63
44.280	33.5482	0.1589292	0.2796777	6	46.3	4.1	0.5	0.13453	291.7	286.7	0.478	1.40	1.00	291.85	2.387	0.031	4.00
44.300	40.0374	0.1539885	0.3206352	7	50.4	2.9	0.5	0.13473	347.7	342.7	0.387	1.29	1.00	347.69	3.989	0.031	4.00
44.320	47.4038	0.2073109	0.2837565	7	60.5	2.7	0.5	0.13493	410.5	405.6	0.440	1.27	1.00	410.54	6.515	0.031	4.00
44.340	57.9237	0.2212326	0.3886144	7	68.1	1.9	0.5	0.13513	501.8	496.7	0.383	1.16	1.00	501.83	11.819	0.031	4.00
44.460	28.3755	0.1829012	0.1590043	6	43.8	6.4	0.5	0.13653	244.2	239.2	0.654	1.55	1.00	244.21	1.434	0.031	4.00
44.540	36.9777	0.0058413	0.5334951	7	41.0	2.1	0.5	0.13713	320.3	315.4	0.016	1.19	1.00	320.33	3.137	0.031	4.00
44.560	63.9431	0.0395322	0.5389051	7	43.2	0.4	0.5	0.13733	550.2	545.3	0.062	0.80	1.00	550.24	15.574	0.031	4.00
44.620	64.0667	0.349229	-0.0687156	7	85.6	2.6	0.5	0.13793	544.9	540.0	0.851	1.26	1.00	544.93	15.129	0.031	4.00
44.640	61.4969	0.2119577	-0.066308	7	69.1	1.6	0.5	0.13813	522.7	517.7	0.348	1.12	1.00	522.69	13.360	0.031	4.00
44.700	55.8571	0.5815939	-0.0605015	6	94.8	5.8	0.5	0.13873	473.7	468.7	1.053	1.52	1.00	473.72	9.967	0.031	4.00
44.720	52.2996	0.5952653	-0.0558279	6	91.5	6.6	0.5	0.13893	443.2	438.3	1.152	1.57	1.00	443.24	8.178	0.031	4.00
44.740	30.7068	0.6082614	-0.0518058	6	63.2	14.9	0.5	0.13913	259.9	254.9	2.023	1.90	1.19	309.46	2.636	0.031	4.00
44.760	29.6674	0.5493477	-0.0597367	6	60.1	14.4	0.5	0.13933	259.8	245.9	1.893	1.89	1.18	295.58	2.481	0.031	4.00
44.800	19.456	0.4035646	0.3369785	6	41.7	19.9	0.5	0.13973	187.4	192.5	2.101	2.04	1.35	226.52	1.161	0.031	4.00
44.820	20.5437	0.3700051	0.1399238	6	42.2	17.7	0.5	0.13993	174.9	169.9	1.841	1.98	1.28	223.36	1.116	0.031	4.00
44.840	20.3561	0.3478531	0.0656283	6	41.3	17.3	0.5	0.14013	172.5	167.5	1.754	1.97	1.26	217.97	1.043	0.031	4.00
44.860	19.3491	0.1242377	0.0610113	6	31.4	9.2	0.5	0.14033	163.9	158.9	0.660	1.70	1.04	169.83	0.536	0.031	2.23
44.880	18.066	0.0750742	0.0624842	6	26.9	7.5	0.5	0.14053	155.9	148.0	0.428	1.62	1.00	152.92	0.413	0.031	1.72
44.900	15.3639	0.059145	0.0308739	6	23.1	8.5	0.5	0.14073	129.8	124.8	0.399	1.66	1.01	131.56	0.292	0.031	1.22
44.920	13.3876	0.0257919	0.0207337	6	18.4	7.2	0.5	0.14093	112.9	108.0	0.201	1.60	1.00	112.95	0.214	0.031	0.89
44.940	12.3683	0.0284687	0.0433367	6	17.7	8.4	0.5	0.14113	104.5	99.5	0.241	1.66	1.01	105.55	0.180	0.031	0.79
44.960	10.8415	0.0160918	0.1035555	6	15.2	8.3	0.5	0.14133	92.1	87.1	0.155	1.66	1.01	92.83	0.154	0.030	0.65
44.980	10.0457	0.0161231	0.11987	6	14.5	9.3	0.5	0.14153	85.4	80.5	0.168	1.70	1.04	86.65	0.145	0.030	0.61
45.000	9.6943	0.0465983	0.239485	6	16.8	14.5	0.5	0.14173	83.4	78.5	0.499	1.89	1.18	96.35	0.168	0.029	0.71
45.020	10.3656	0.0524084	0.2023231	6	17.7	14.0	0.5	0.14193	88.7	83.7	0.525	1.88	1.17	103.52	0.183	0.029	0.77
45.040	11.2888	0.0933174	0.2844929	6	21.0	16.7	0.5	0.14213	97.1	92.1	0.860	1.96	1.25	120.94	0.245	0.028	1.02
45.060	14.5669	0.077457	0.4504755	6	24.1	10.4	0.5	0.14233	125.9	120.9	0.537	1.75	1.07	134.50	0.306	0.028	1.28
45.080	16.2044	0.0790081	0.3849039	6	25.8	9.0	0.5	0.14253	139.0	134.0	0.494	1.69	1.03	143.13	0.353	0.028	1.48
45.100	18.3429	0.0596391	0.3934296	6	26.3	6.3	0.5	0.14273	156.8	151.9	0.329	1.55	1.00	156.83	0.439	0.028	1.84
45.120	20.0897	0.031258	0.411699	6	24.8	4.0	0.5	0.14293	171.5	166.5	0.157	1.39	1.00	171.48	0.549	0.028	2.31
45.140	19.9793	0.0319272	0.2909226	6	24.7	4.1	0.5	0.14313	169.4	164.5	0.162	1.40	1.00	169.43	0.532	0.028	2.24
45.160	19.0634	0.0515588	0.2045444	6	26.0	5.6	0.5	0.14333	169.9	156.0	0.276	1.51	1.00	160.94	0.468	0.028	1.97

CPT Verileri											N BÖLGESİ						
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																49	2.46
45.180	17.1492	0.0821658	0.21776	6	25.3	7.4	0.5	0.14353	145.0	140.0	0.371	1.61	1.00	144.96	0.363	0.028	1.53
45.200	15.7426	0.056751	0.2118685	6	23.8	8.2	0.5	0.14373	133.1	128.1	0.383	1.65	1.00	133.49	0.301	0.028	1.27
45.220	14.8203	0.0624347	0.2718035	6	23.2	9.2	0.5	0.14393	125.9	120.9	0.430	1.70	1.04	130.39	0.286	0.028	1.21
45.240	14.9853	0.0638168	0.3252805	6	23.5	9.1	0.5	0.14413	127.5	122.6	0.434	1.69	1.03	131.93	0.283	0.028	1.24
45.260	16.0327	0.0586822	0.4011906	6	24.2	7.8	0.5	0.14433	136.8	131.8	0.371	1.63	1.00	136.79	0.318	0.028	1.34
45.280	16.8328	0.0538165	0.4493425	6	24.6	6.9	0.5	0.14453	143.8	138.8	0.323	1.59	1.00	143.75	0.356	0.028	1.50
45.300	17.2439	0.0542793	0.4539594	6	25.0	6.7	0.5	0.14473	147.1	142.1	0.317	1.57	1.00	147.11	0.376	0.028	1.59
45.340	18.3429	0.0520654	0.4509004	6	25.8	6.0	0.5	0.14513	156.0	151.0	0.286	1.53	1.00	156.00	0.433	0.028	1.83
45.360	18.9109	0.0544607	0.4573017	6	26.5	5.8	0.5	0.14533	160.7	155.7	0.290	1.52	1.00	160.68	0.466	0.028	1.97
45.380	19.3178	0.0582319	0.4575	6	27.3	5.8	0.5	0.14553	164.4	159.5	0.303	1.52	1.00	164.42	0.493	0.028	2.09
45.400	19.4227	0.0638982	0.4540161	6	27.9	6.1	0.5	0.14573	164.7	159.7	0.331	1.54	1.00	164.65	0.495	0.028	2.10
45.420	19.3605	0.067513	0.4559421	6	28.1	6.3	0.5	0.14593	164.0	159.1	0.351	1.55	1.00	164.04	0.491	0.028	2.08
45.440	18.8758	0.0602833	0.4501922	6	27.1	6.2	0.5	0.14613	159.9	154.9	0.322	1.54	1.00	159.87	0.460	0.028	1.95
45.460	18.4218	0.0538353	0.4439891	6	26.1	6.1	0.5	0.14633	156.0	151.0	0.295	1.54	1.00	155.96	0.433	0.028	1.84
45.480	18.087	0.0533475	0.4481529	6	25.8	6.2	0.5	0.14653	153.1	148.2	0.297	1.55	1.00	153.12	0.414	0.028	1.76
45.500	17.825	0.0531661	0.4465384	6	25.6	6.4	0.5	0.14673	150.8	145.9	0.301	1.55	1.00	150.84	0.399	0.028	1.69
45.520	17.442	0.0562869	0.4490026	6	25.5	6.8	0.5	0.14693	147.6	142.6	0.326	1.58	1.00	147.60	0.379	0.028	1.61
45.540	16.9897	0.0595828	0.4468216	6	25.4	7.3	0.5	0.14713	143.8	138.8	0.354	1.61	1.00	143.75	0.356	0.028	1.51
45.560	17.3333	0.0549548	0.4561971	6	25.4	6.8	0.5	0.14733	148.6	141.6	0.320	1.58	1.00	146.58	0.373	0.028	1.59
45.580	17.8101	0.054592	0.4536762	6	25.8	6.5	0.5	0.14753	150.4	145.4	0.368	1.56	1.00	150.37	0.396	0.028	1.69
45.620	17.8951	0.0525219	0.4591145	6	25.7	6.4	0.5	0.14793	150.9	145.9	0.296	1.55	1.00	150.91	0.400	0.028	1.70
45.640	17.9941	0.052303	0.4516085	6	25.7	6.4	0.5	0.14813	151.6	146.6	0.293	1.55	1.00	151.59	0.404	0.028	1.72
45.660	17.2886	0.0533725	0.4458869	6	25.2	6.8	0.5	0.14833	145.6	140.6	0.312	1.58	1.00	145.61	0.367	0.028	1.57
45.680	16.0905	0.0529222	0.436823	6	24.1	7.0	0.5	0.14853	135.0	130.0	0.332	1.62	1.00	135.61	0.312	0.028	1.33
45.700	14.4428	0.0562807	0.420338	6	22.8	9.2	0.5	0.14873	121.9	116.9	0.395	1.70	1.04	126.29	0.267	0.028	1.14
45.720	13.6523	0.0550674	0.4033716	6	21.9	9.9	0.5	0.14893	115.2	110.2	0.409	1.73	1.06	121.70	0.248	0.028	1.06
45.740	12.3683	0.0535539	0.3967153	6	20.5	11.3	0.5	0.14913	104.5	99.6	0.440	1.78	1.09	114.34	0.219	0.027	0.94
45.760	11.7101	0.0503071	0.4033149	6	19.5	11.9	0.5	0.14933	99.1	94.2	0.437	1.80	1.11	109.95	0.203	0.027	0.87
45.780	11.3069	0.0451671	0.42487	6	18.8	11.8	0.5	0.14953	95.9	91.0	0.406	1.80	1.11	106.20	0.191	0.027	0.82
45.800	11.3043	0.0411457	0.4465384	6	18.5	11.3	0.5	0.14973	98.0	91.1	0.369	1.78	1.09	105.01	0.188	0.027	0.80
45.820	11.9353	0.0408519	0.4579249	6	19.2	10.5	0.5	0.14993	101.2	96.2	0.347	1.75	1.07	108.38	0.198	0.026	0.85
45.840	12.9003	0.0390193	0.4563953	6	20.0	9.2	0.5	0.15013	109.0	104.0	0.306	1.69	1.03	112.77	0.213	0.026	0.91
45.860	13.5427	0.0471434	0.4517501	6	21.3	9.4	0.5	0.15033	114.1	109.2	0.352	1.70	1.04	118.68	0.235	0.026	1.01
45.880	12.9143	0.0469683	0.4567069	6	20.7	10.0	0.5	0.15053	109.0	104.0	0.388	1.73	1.06	115.94	0.223	0.026	0.96
45.900	13.2984	0.0386128	0.459596	6	20.4	8.8	0.5	0.15073	112.0	107.1	0.294	1.68	1.02	114.53	0.220	0.026	0.94
45.920	14.3131	0.0361862	0.458718	6	21.1	7.7	0.5	0.15093	120.2	115.3	0.256	1.62	1.00	120.24	0.242	0.025	1.04
45.940	15.229	0.0377623	0.456282	6	22.1	7.1	0.5	0.15113	127.6	122.6	0.251	1.60	1.00	127.59	0.273	0.025	1.17
45.960	15.589	0.0451859	0.4595677	6	23.1	7.5	0.5	0.15133	130.3	125.3	0.293	1.62	1.00	130.30	0.286	0.025	1.23
45.980	15.7189	0.0474248	0.4572734	6	23.5	7.6	0.5	0.15153	131.4	126.4	0.305	1.62	1.00	131.41	0.291	0.025	1.25

CPT Verileri														N BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{vo} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs CRR	Oturma [mm]	FL Güvenlik Katsayısı	
45.000	15.8004	0.049889	0.4582081	6	23.8	7.7	0.5	0.15173	132.0	127.0	0.319	1.63	1.00	131.99	0.294	2.46	
45.020	15.6768	0.0558429	0.4605691	6	24.2	8.3	0.5	0.15193	130.9	124.0	0.360	1.65	1.01	131.72	0.293	1.26	
45.040	15.5366	0.0528534	0.4586613	6	23.8	8.2	0.5	0.15213	129.7	123.0	0.344	1.85	1.00	130.00	0.284	1.22	
45.060	15.576	0.0531599	0.4569335	6	23.9	8.2	0.5	0.15233	129.9	124.9	0.345	1.65	1.00	130.24	0.285	1.23	
45.080	15.4814	0.0560993	0.4581231	6	24.0	8.5	0.5	0.15253	129.1	124.1	0.366	1.66	1.01	130.76	0.288	1.24	
45.100	14.9205	0.0548485	0.4590012	6	23.4	8.9	0.5	0.15273	124.4	119.5	0.371	1.68	1.03	127.81	0.273	1.18	
45.120	14.2176	0.0573689	0.4442724	6	22.9	9.8	0.5	0.15293	118.6	113.6	0.408	1.72	1.05	124.72	0.280	1.12	
45.140	11.4068	0.0544482	0.4721155	6	19.7	13.0	0.5	0.15313	96.0	91.0	0.483	1.84	1.14	109.21	0.201	0.87	
45.160	11.5435	0.0423907	0.4571884	6	19.1	11.4	0.5	0.15333	98.9	91.9	0.378	1.79	1.10	106.34	0.192	0.83	
45.180	10.5295	0.0409894	0.4320845	6	17.8	12.8	0.5	0.15353	88.5	83.5	0.396	1.83	1.13	100.18	0.094	0.75	
45.200	9.1228	0.0544857	0.4232838	6	17.0	17.6	0.5	0.15373	77.0	72.0	0.610	1.98	1.27	98.16	0.168	0.73	
45.220	7.9072	0.0600769	0.4144182	5	15.7	22.1	0.5	0.15393	67.1	62.1	0.780	2.09	1.44	96.46	0.163	0.71	
45.240	5.731	0.0663935	0.3875381	5	12.9	34.1	0.5	0.15413	49.3	44.3	1.207	2.32	2.01	96.86	0.170	0.74	
45.260	5.1026	0.0947659	0.3881895	5	12.6	45.5	0.5	0.15433	44.2	39.2	1.944	2.48	2.68	118.37	0.234	1.01	
45.280	6.8257	0.1273648	0.4682634	5	16.3	37.5	0.5	0.15453	58.7	53.7	1.908	2.37	2.19	128.73	0.278	1.21	
45.300	11.7565	0.1142186	0.4443857	6	23.1	18.6	0.5	0.15473	98.1	93.1	0.986	2.00	1.31	128.16	0.276	1.20	
45.320	17.0011	0.0851496	0.4186386	6	27.8	9.4	0.5	0.15493	140.0	135.0	0.507	1.71	1.04	145.91	0.369	1.60	
45.340	17.5594	0.076325	0.3910787	6	27.7	7.6	0.5	0.15513	144.1	139.2	0.440	1.66	1.01	146.99	0.369	1.60	
45.360	18.0046	0.0667675	0.3881612	6	27.4	7.6	0.5	0.15533	147.6	142.6	0.376	1.62	1.00	147.58	0.379	1.65	
45.380	18.0055	0.0612777	0.4082914	6	27.0	7.2	0.5	0.15553	147.7	142.7	0.344	1.60	1.00	147.68	0.379	1.65	
45.400	17.9372	0.0573564	0.4263995	6	26.6	7.0	0.5	0.15573	147.2	142.2	0.323	1.59	1.00	147.15	0.376	1.64	
45.420	15.7136	0.0575615	0.4578399	6	24.6	6.9	0.5	0.15593	129.5	124.5	0.370	1.67	1.02	131.88	0.292	1.27	
45.440	14.7794	0.0576691	0.409433	6	23.6	9.5	0.5	0.15613	121.6	116.6	0.396	1.71	1.04	126.55	0.270	1.17	
45.460	13.4603	0.0781387	0.4359733	6	23.6	12.7	0.5	0.15633	111.1	106.2	0.589	1.83	1.13	125.63	0.264	1.15	
45.480	12.7697	0.0614215	0.404193	6	21.8	12.1	0.5	0.15653	105.3	100.3	0.489	1.81	1.11	117.37	0.230	1.00	
45.500	11.5628	0.0447106	0.4088555	6	19.3	11.9	0.5	0.15673	95.6	90.6	0.394	1.80	1.11	106.16	0.191	0.83	
45.520	10.3768	0.0383126	0.4268527	6	17.6	12.9	0.5	0.15693	88.3	81.3	0.376	1.84	1.14	97.99	0.168	0.73	
45.540	9.1623	0.0323665	0.4087729	6	15.8	14.3	0.5	0.15713	76.4	71.4	0.362	1.88	1.17	80.58	0.147	0.64	
45.560	8.2823	0.0378748	0.3930897	6	15.1	17.4	0.5	0.15733	69.2	64.2	0.470	1.97	1.27	87.67	0.143	0.62	
45.580	8.519	0.0486444	0.4186299	6	16.1	18.7	0.5	0.15753	71.2	66.3	0.585	2.01	1.31	93.25	0.155	0.68	
45.600	9.8003	0.0874011	0.3996044	5	19.5	20.8	0.5	0.15773	81.2	76.2	0.913	2.06	1.38	112.45	0.212	0.93	
45.620	10.1938	0.1038493	0.382213	5	20.7	21.7	0.5	0.15793	84.2	79.2	1.044	2.08	1.42	119.41	0.238	1.04	
45.640	9.7144	0.0824978	0.2572729	5	19.0	20.8	0.5	0.15813	79.3	74.3	0.883	2.06	1.39	109.98	0.204	0.89	
45.660	8.5873	0.0704712	0.2377006	5	17.0	22.6	0.5	0.15833	70.1	65.2	0.859	2.10	1.46	102.17	0.179	0.78	
45.680	8.1754	0.0572375	0.44437059	5	16.1	21.2	0.5	0.15853	68.5	63.5	0.716	2.07	1.40	95.88	0.162	0.71	
45.700	6.5996	0.0607774	0.3975084	5	14.1	28.4	0.5	0.15873	55.5	50.6	0.954	2.22	1.71	95.17	0.160	0.70	
45.720	5.5163	0.0718646	0.3057931	5	12.7	38.3	0.5	0.15893	48.2	41.2	1.383	2.38	2.24	103.56	0.183	0.80	
45.740	5.4322	0.1286811	0.4079035	5	13.9	48.8	0.5	0.15913	46.3	41.3	2.372	2.52	2.89	133.66	0.202	1.32	
45.760	6.0422	0.1149191	0.5376871	5	15.0	41.1	0.5	0.15933	52.1	47.2	1.930	2.42	2.81	126.41	0.263	1.16	

CPT Verileri														N BÖLGESİ			
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{vo} [MPa]	qc1N	Q	F [%]	lc	Kc	qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
46.760	7.4304	0.1056088	0.4077902	5	16.8	32.1	0.5	0.15953	62.1	57.1	1.465	2.28	1.90	117.70	0.232	0.016	1.02
46.800	8.2797	0.1137746	0.3787008	5	18.3	29.5	0.5	0.15973	68.5	63.5	1.417	2.24	1.76	120.91	0.244	0.016	1.07
46.820	9.3665	0.1375659	0.5430405	5	20.8	27.5	0.5	0.15993	78.4	73.4	1.482	2.20	1.67	130.87	0.288	0.016	1.27
46.840	13.2771	0.1158134	0.4878024	6	25.5	16.3	0.5	0.16013	108.8	103.8	0.882	1.94	1.23	134.15	0.305	0.016	1.34
46.860	15.0548	0.1055317	0.3390179	6	27.0	13.2	0.5	0.16033	121.6	116.6	0.715	1.85	1.14	139.18	0.331	0.016	1.45
46.880	15.0011	0.0934425	0.3730358	6	26.4	12.4	0.5	0.16053	121.3	116.4	0.634	1.82	1.12	136.16	0.315	0.016	1.38
46.900	14.6251	0.0834109	0.386575	6	25.4	12.1	0.5	0.16073	118.4	113.4	0.580	1.81	1.11	131.81	0.293	0.016	1.29
46.920	14.4288	0.0799649	0.4103961	6	25.0	12.0	0.5	0.16093	117.0	112.0	0.563	1.81	1.11	130.03	0.284	0.016	1.25
46.940	11.9896	0.0870321	0.4656858	6	22.4	16.3	0.5	0.16113	97.2	92.2	0.744	1.94	1.23	119.85	0.240	0.016	1.06
46.960	11.0782	0.0791894	0.4098296	6	21.0	17.1	0.5	0.16133	90.4	85.5	0.729	1.97	1.26	113.89	0.217	0.016	0.96
46.980	9.6426	0.0862941	0.3935712	5	19.4	21.4	0.5	0.16153	79.0	74.0	0.918	2.07	1.41	111.43	0.209	0.016	0.92
47.000	9.0843	0.0998092	0.4168541	5	19.1	24.8	0.5	0.16173	74.7	69.7	1.125	2.15	1.55	115.63	0.224	0.015	0.99
47.020	8.9528	0.1087213	0.4154095	5	19.2	26.4	0.5	0.16193	73.6	68.7	1.245	2.18	1.62	119.10	0.237	0.015	1.05
47.040	8.9695	0.1218737	0.3080591	5	19.5	26.3	0.5	0.16213	72.9	67.9	1.410	2.22	1.71	124.46	0.259	0.015	1.14
47.060	10.2885	0.1580349	0.2392301	5	22.4	27.7	0.5	0.16233	82.6	77.6	1.598	2.21	1.68	138.89	0.329	0.015	1.45
47.080	12.9818	0.1541073	0.4237936	6	26.6	20.1	0.5	0.16253	105.2	100.2	1.207	2.04	1.36	143.04	0.352	0.015	1.56
47.100	14.6312	0.1469839	0.2369358	6	28.3	17.0	0.5	0.16273	118.6	111.6	1.033	1.96	1.26	146.37	0.372	0.015	1.64
47.120	16.1378	0.1243816	0.0898742	6	29.1	13.7	0.5	0.16293	127.1	122.2	0.798	1.86	1.16	147.09	0.376	0.015	1.66
47.140	18.0055	0.1055129	0.1477415	6	30.4	10.5	0.5	0.16313	142.1	137.2	0.602	1.75	1.07	152.53	0.410	0.015	1.81
47.160	19.0792	0.1015103	0.283105	6	31.4	9.4	0.5	0.16333	151.5	146.5	0.542	1.70	1.04	157.54	0.444	0.015	1.96
47.180	21.1186	0.1219612	0.264694	6	34.9	9.0	0.5	0.16353	167.2	162.2	0.568	1.69	1.03	172.08	0.554	0.015	2.45
47.200	21.0757	0.1184652	0.3747353	6	34.8	6.8	0.5	0.16373	167.6	162.7	0.569	1.68	1.02	171.50	0.549	0.015	2.43
47.220	22.4377	0.0866706	0.3576839	6	33.9	6.7	0.5	0.16393	178.0	173.1	0.400	1.57	1.00	178.04	0.605	0.015	2.68
47.240	24.7664	0.0910722	0.4221791	6	36.3	5.8	0.5	0.16413	196.6	191.6	0.371	1.52	1.00	196.61	0.787	0.015	3.49
47.260	27.762	0.1139995	0.5067283	6	41.0	5.5	0.5	0.16433	229.5	215.6	0.413	1.50	1.00	220.52	1.077	0.015	4.00
47.280	29.7796	0.132218	0.3062463	6	44.2	5.5	0.5	0.16453	234.6	229.6	0.449	1.50	1.00	234.55	1.280	0.015	4.00
47.300	30.3203	0.1277525	0.1752164	6	44.2	5.2	0.5	0.16473	237.6	232.6	0.428	1.48	1.00	237.60	1.327	0.015	4.00
47.320	29.9189	0.1347948	0.0753153	6	44.3	5.8	0.5	0.16493	233.6	228.6	0.469	1.51	1.00	233.55	1.265	0.015	4.00
47.340	29.7068	0.1420494	0.0572441	6	44.7	5.9	0.5	0.16513	231.6	226.7	0.488	1.52	1.00	231.62	1.236	0.015	4.00
47.360	29.9741	0.1397229	0.0668462	6	44.8	5.7	0.5	0.16533	233.6	228.7	0.475	1.51	1.00	233.63	1.266	0.015	4.00
47.380	32.0434	0.1239938	0.1675687	6	45.4	4.6	0.5	0.16553	250.4	245.4	0.393	1.44	1.00	250.36	1.539	0.015	4.00
47.400	34.5132	0.12193	0.3225613	6	47.3	4.0	0.5	0.16573	270.6	265.6	0.357	1.39	1.00	270.60	1.923	0.015	4.00
47.420	36.5027	0.1271396	0.4852188	6	49.4	3.7	0.5	0.16593	297.1	292.2	0.350	1.36	1.00	287.13	2.281	0.015	4.00
47.440	38.1601	0.1517995	0.4188085	6	53.1	3.9	0.5	0.16613	299.3	294.3	0.400	1.38	1.00	289.31	2.574	0.015	4.00
47.460	37.1609	0.1631883	0.4396555	6	53.5	4.3	0.5	0.16633	291.4	286.4	0.442	1.42	1.00	291.37	2.381	0.015	4.00
47.500	36.607	0.1742205	0.4403069	6	54.0	4.7	0.5	0.16673	295.9	281.9	0.479	1.45	1.00	286.91	2.277	0.015	4.00
47.520	35.1653	0.1943982	0.4579249	6	54.3	5.5	0.5	0.16693	275.7	270.7	0.556	1.50	1.00	275.72	2.029	0.015	4.00
47.540	33.1083	0.211276	0.4291753	6	53.5	6.5	0.5	0.16713	259.4	254.4	0.642	1.56	1.00	259.42	1.704	0.015	4.00
47.560	30.2599	0.217674	0.3994911	6	51.0	7.7	0.5	0.16733	237.0	232.0	0.725	1.63	1.00	237.02	1.318	0.015	4.00

CPT Verileri													N BÖLGESİ				
Derinlik m	qc Kont Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{vo} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
47.580	27.2125	0.2198191	0.4137687	6	47.7	9.2	0.5	0.16753	213.4	208.5	0.815	1.70	1.03	220.85	1.082	0.015	4.00
47.600	25.6077	0.206967	0.3846773	6	45.2	9.7	0.5	0.16773	200.7	195.7	0.816	1.72	1.05	210.55	0.948	0.015	4.00
47.620	25.3544	0.2008192	0.4079035	6	44.6	9.6	0.5	0.16793	198.8	193.8	0.799	1.71	1.05	208.22	0.920	0.015	4.00
47.640	26.3027	0.1828199	0.4430544	6	44.7	8.5	0.5	0.16813	206.3	201.3	0.700	1.66	1.01	209.07	0.930	0.015	4.00
47.660	26.9683	0.1656274	0.458548	6	44.4	7.6	0.5	0.16833	211.3	206.3	0.619	1.62	1.00	211.32	0.958	0.015	4.00
47.680	25.4622	0.1616998	0.4745798	6	42.8	8.2	0.5	0.16853	199.8	194.8	0.639	1.65	1.00	200.60	0.831	0.015	3.71
47.700	23.0503	0.1556396	0.4685197	6	39.6	9.3	0.5	0.16873	181.0	176.0	0.681	1.70	1.04	188.16	0.700	0.015	3.13
47.720	19.8986	0.1417492	0.4685183	6	35.3	11.0	0.5	0.16893	156.7	151.7	0.719	1.77	1.08	169.89	0.536	0.015	2.40
47.740	20.2466	0.1361393	0.4861362	6	35.4	10.4	0.5	0.16913	159.4	154.4	0.678	1.75	1.07	170.50	0.541	0.015	2.42
47.760	19.8215	0.1371775	0.4493991	6	34.9	10.8	0.5	0.16933	155.8	150.8	0.699	1.76	1.08	168.37	0.524	0.015	2.34
47.780	20.0976	0.1453328	0.4503339	6	35.7	11.0	0.5	0.16953	157.8	152.8	0.730	1.77	1.09	171.35	0.548	0.015	2.45
47.800	21.1195	0.1582976	0.3143755	6	37.4	10.9	0.5	0.16973	164.5	159.5	0.762	1.77	1.08	178.28	0.607	0.015	2.72
47.820	20.9319	0.1636573	0.1408302	6	37.3	11.5	0.5	0.16993	161.7	156.7	0.801	1.79	1.10	177.45	0.600	0.015	2.69
47.840	19.8666	0.1659088	0.0354908	6	36.0	12.6	0.5	0.17013	152.5	147.5	0.862	1.83	1.13	171.98	0.563	0.015	2.48
47.860	18.7742	0.1638518	-0.0029458	6	35.3	14.6	0.5	0.17033	143.8	138.8	1.015	1.89	1.18	170.15	0.538	0.015	2.41
47.900	35.5746	0.3389723	0.0579239	6	63.4	8.7	0.5	0.17073	272.7	267.7	0.969	1.67	1.02	277.91	2.076	0.015	4.00
47.920	45.6983	0.3455328	0.5596671	6	75.6	5.7	0.5	0.17093	353.8	348.8	0.758	1.52	1.00	353.82	4.199	0.015	4.00
47.940	46.0121	0.3345506	0.5442668	6	75.2	5.5	0.5	0.17113	355.9	350.9	0.729	1.50	1.00	355.89	4.272	0.015	4.00
47.960	45.8929	0.3276336	0.5072381	6	74.6	5.5	0.5	0.17133	354.5	349.5	0.716	1.50	1.00	354.49	4.223	0.015	4.00
47.970	51.8921	0.0105569	0.4549508	7	54.8	1.5	0.5	0.17143	399.8	394.8	0.620	1.10	1.00	369.51	6.023	0.015	4.00
48.020	34.0706	0.0168736	0.5884477	7	36.5	2.0	0.5	0.17213	264.2	259.2	0.650	1.18	1.00	264.17	1.795	0.015	4.00
48.040	39.4914	0.0665937	0.4764036	7	44.8	2.1	0.5	0.17213	304.7	299.7	0.168	1.20	1.00	304.65	2.710	0.015	4.00
48.060	42.459	0.1634759	0.3519623	6	56.3	3.5	0.5	0.17233	326.1	321.1	0.388	1.35	1.00	326.12	3.306	0.015	4.00
48.080	36.3634	0.4482002	-0.0426653	6	69.2	10.6	0.5	0.17253	276.5	271.5	1.257	1.75	1.07	286.90	2.514	0.015	4.00
48.100	25.5972	0.4534161	-0.0731343	6	53.8	17.6	0.5	0.17273	194.2	189.2	1.623	1.98	1.27	247.14	1.484	0.015	4.00
48.120	23.9942	0.2758496	-0.0768731	6	46.0	13.7	0.5	0.17293	181.9	176.9	1.186	1.88	1.16	210.33	0.945	0.015	4.00
48.140	24.1607	0.2626597	-0.0709533	6	45.7	13.1	0.5	0.17313	183.1	178.1	1.121	1.84	1.14	208.87	0.927	0.015	4.00
48.160	23.5972	0.2534912	-0.0647786	6	44.6	13.2	0.5	0.17333	178.7	173.8	1.108	1.85	1.14	204.58	0.876	0.015	3.95
48.180	24.766	0.2952499	-0.0614928	6	47.0	14.2	0.5	0.17353	183.0	178.0	1.259	1.88	1.17	214.27	0.995	0.015	4.00
48.200	24.4456	0.2284373	-0.0580939	6	44.7	11.7	0.5	0.17373	185.0	180.0	0.963	1.80	1.10	204.36	0.874	0.015	3.94
48.220	25.6524	0.255036	-0.0530238	6	47.4	11.8	0.5	0.17393	194.1	189.1	1.022	1.80	1.11	214.70	1.000	0.015	4.00
48.240	25.5429	0.1235873	-0.0482086	6	40.0	7.3	0.5	0.17413	193.2	188.2	0.498	1.60	1.00	193.20	0.751	0.015	3.39
48.260	21.8618	0.0552112	0.4144748	6	31.2	5.7	0.5	0.17433	168.7	163.7	0.265	1.51	1.00	168.72	0.527	0.015	2.38
48.280	21.3728	0.0480815	0.3344577	6	30.0	5.6	0.5	0.17453	164.3	159.3	0.228	1.50	1.00	164.31	0.493	0.015	2.22
48.300	21.0511	0.0469308	0.3111373	6	29.6	5.6	0.5	0.17473	161.6	156.6	0.227	1.51	1.00	161.61	0.473	0.015	2.13
48.320	19.3985	0.0490947	0.2887133	6	28.3	6.6	0.5	0.17493	148.8	143.8	0.258	1.57	1.00	148.78	0.386	0.015	1.75
48.340	18.7417	0.0535601	0.3250822	6	28.2	7.2	0.5	0.17513	144.1	139.1	0.291	1.60	1.00	144.08	0.358	0.015	1.62
48.360	18.3377	0.1006785	0.3350808	6	31.3	10.5	0.5	0.17533	141.0	136.0	0.559	1.75	1.07	151.11	0.401	0.015	1.81
48.380	25.0258	0.152106	0.3168937	6	41.9	6.5	0.5	0.17553	191.3	186.3	0.616	1.66	1.01	193.75	0.756	0.015	3.42

CPT Verileri													N BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	[qc1N]cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
51.760	14.3701	0.068573	0.0758251	6	27.5	17.2	0.5	0.20953	99.8	94.8	0.707	1.97	1.26	125.96	0.266	49	2.46
51.800	14.051	0.1192032	0.0997647	6	28.1	16.7	0.5	0.20973	97.7	92.7	0.688	2.03	1.35	131.49	0.291	0.015	4.00
51.820	14.9134	0.1097032	0.1088234	6	28.9	17.4	0.5	0.20993	103.7	98.7	0.767	1.98	1.27	131.54	0.292	0.015	4.00
51.840	14.8207	0.1035241	0.1049995	6	28.2	17.4	0.5	0.21013	101.6	96.6	0.740	1.97	1.27	128.78	0.279	0.015	4.00
51.860	11.0729	0.0851996	0.0898458	5	22.4	22.8	0.5	0.21033	77.0	71.9	0.817	2.10	1.46	112.64	0.213	0.015	4.00
51.880	8.448	0.0784452	0.4595111	5	18.3	29.1	0.5	0.21053	61.4	56.4	0.959	2.23	1.75	107.35	0.195	0.015	4.00
51.900	8.6636	0.1025985	0.4527415	5	20.0	32.0	0.5	0.21073	62.8	57.8	1.223	2.28	1.89	118.82	0.236	0.015	4.00
51.920	10.8179	0.1682103	0.5237514	5	25.4	31.2	0.5	0.21093	78.1	73.1	1.585	2.27	1.85	144.48	0.360	0.015	4.00
51.940	13.0317	0.1701991	0.4446123	5	28.9	25.4	0.5	0.21113	92.7	87.7	1.335	2.16	1.57	145.93	0.369	0.015	4.00
51.960	14.9143	0.1749022	0.2539023	5	31.7	22.2	0.5	0.21133	104.3	99.3	1.211	2.09	1.44	150.16	0.395	0.015	3.71
51.980	15.9625	0.1740641	0.117604	5	33.1	20.5	0.5	0.21153	110.6	105.5	1.134	2.05	1.38	152.09	0.407	0.015	3.13
52.000	16.236	0.1725882	0.1270361	6	33.4	20.0	0.5	0.21173	112.5	107.4	1.104	2.04	1.36	152.45	0.409	0.015	2.40

CPT Verileri														O BÖLGESİ													
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı										
			Boşluk Suyu Basıncı			[%]		[MPa]			[%]					24	2.68										
42.060	9.0228	0.1654397	0.1382244	5	18.8	26.6	0.5	0.11233	86.4	81.4	1.917	2.18	1.63	140.72	0.339	0.024	1.23										
42.080	8.909	0.1066262	0.0808386	5	17.0	21.2	0.5	0.11253	84.7	79.7	1.261	2.07	1.40	118.90	0.236	0.024	0.86										
42.100	9.1816	0.0916976	0.0726811	6	16.8	18.8	0.5	0.11273	87.2	82.1	1.052	2.01	1.31	114.56	0.220	0.024	0.80										
42.140	8.6364	0.0646924	0.4916879	6	15.5	15.9	0.5	0.11313	85.8	80.8	0.753	1.93	1.22	104.66	0.187	0.023	0.68										
42.160	8.4532	0.0403264	0.3904838	6	13.9	13.0	0.5	0.11333	83.1	78.0	0.485	1.84	1.14	94.65	0.159	0.023	0.58										
42.180	7.2359	0.0410544	0.3892659	6	12.6	16.2	0.5	0.11353	71.6	66.5	0.579	1.94	1.23	88.07	0.144	0.022	0.52										
42.200	5.8485	0.0536477	0.3927781	5	11.6	24.1	0.5	0.11373	58.5	53.5	0.940	2.13	1.52	88.98	0.146	0.022	0.53										
42.220	4.5364	0.0824978	0.4096688	5	10.6	39.7	0.5	0.11393	46.3	41.3	1.871	2.40	2.32	107.50	0.196	0.021	0.71										
42.240	4.7459	0.0966571	0.4695663	5	11.4	40.2	0.5	0.11413	48.8	43.8	2.066	2.41	2.35	114.81	0.221	0.021	0.80										
42.260	4.9045	0.1268019	0.5757272	5	12.4	43.3	0.5	0.11433	51.3	46.2	2.565	2.45	2.54	130.32	0.286	0.020	1.04										
42.280	13.5909	0.0015385	0.4695946	6	19.0	6.7	0.5	0.11453	131.4	126.4	0.011	1.57	1.00	131.38	0.291	0.020	1.06										
42.300	13.5909	0.0015385	0.4695946	6	19.0	6.7	0.5	0.11473	131.4	126.2	0.011	1.57	1.00	131.27	0.290	0.020	1.06										
42.320	13.5909	0.0015385	0.4695946	6	19.0	6.7	0.5	0.11493	131.2	126.1	0.011	1.58	1.00	131.15	0.290	0.020	1.06										
42.360	26.8146	0.0017949	0.2614367	6	37.4	4.9	0.5	0.11533	252.1	247.1	0.007	1.46	1.00	252.12	1.570	0.020	4.00										
42.370	54.6143	0.1634134	0.3612245	7	54.9	1.3	0.5	0.11543	511.7	506.7	0.300	1.06	1.00	511.69	12.540	0.020	4.00										
42.390	57.2401	0.3837767	-0.0381533	7	79.3	3.1	0.5	0.11563	532.0	526.9	0.677	1.31	1.00	531.96	14.079	0.020	4.00										
42.410	48.3837	0.3844584	0.0150121	6	72.2	4.3	0.5	0.11583	449.7	444.7	0.803	1.41	1.00	449.70	8.538	0.020	4.00										
42.430	55.5617	0.5704491	-0.0198839	6	90.2	5.0	0.5	0.11603	515.6	510.6	1.037	1.47	1.00	515.63	12.829	0.020	4.00										
42.450	51.5441	0.5689636	-0.0589436	6	85.6	5.7	0.5	0.11623	477.6	472.5	1.107	1.51	1.00	477.56	10.209	0.020	4.00										
42.470	49.2908	0.6589934	-0.064297	6	87.4	7.1	0.5	0.11643	456.2	451.2	1.354	1.60	1.00	456.21	8.910	0.020	4.00										
42.490	56.5004	0.65578	-0.0600766	6	95.7	5.7	0.5	0.11663	522.6	517.6	1.173	1.51	1.00	522.62	13.355	0.020	4.00										
42.510	31.1389	0.6957312	-0.056621	6	64.0	14.7	0.5	0.11683	287.6	282.6	2.278	1.90	1.19	340.94	3.766	0.020	4.00										
42.530	22.9705	0.6957312	-0.0589153	5	50.9	21.9	0.5	0.11703	211.8	206.8	3.110	2.08	1.43	302.42	2.652	0.020	4.00										
42.550	16.3657	0.6957312	-0.0404759	5	39.3	32.8	0.5	0.11723	150.8	145.8	4.408	2.30	1.94	292.09	2.398	0.020	4.00										
42.570	6.0667	0.6698455	0.3134974	4	18.8	86.1	0.7	0.11743	***	***	11.476	2.89	***	***	***	0.020	4.00										
42.590	7.2578	0.3918132	0.1881608	4	19.3	55.9	0.7	0.11763	***	***	5.676	2.61	***	***	***	0.020	4.00										
42.610	5.9063	0.3993994	0.1648779	4	16.6	69.9	0.7	0.11783	***	***	7.226	2.75	***	***	***	0.020	4.00										
42.630	4.2849	0.3545888	0.1903701	4	12.9	90.0	0.7	0.11803	***	***	9.020	2.92	***	***	***	0.020	4.00										
42.650	4.0623	0.2722723	0.335448	4	12.2	81.1	0.7	0.11823	***	***	7.066	2.85	***	***	***	0.020	4.00										
42.670	5.3287	0.2422464	0.4287505	4	14.6	57.7	0.7	0.11843	***	***	4.648	2.63	***	***	***	0.020	4.00										
42.690	6.909	0.2460989	0.4045329	5	17.4	44.7	0.5	0.11863	67.1	62.1	3.636	2.47	2.63	176.45	0.591	0.020	2.17										
42.710	8.5435	0.2028455	0.2906394	5	19.3	32.3	0.5	0.11883	81.0	76.0	2.447	2.29	1.91	154.76	0.425	0.020	1.56										
42.730	8.7745	0.1893742	0.2264557	5	19.3	30.4	0.5	0.11903	82.5	77.5	2.240	2.26	1.81	149.54	0.391	0.020	1.44										
42.750	9.5593	0.19065	0.2007652	5	20.5	27.7	0.5	0.11923	89.4	84.4	2.069	2.20	1.68	150.05	0.394	0.020	1.45										
42.770	9.597	0.1839957	0.0449229	5	20.2	27.6	0.5	0.11943	88.2	83.2	2.023	2.20	1.67	147.62	0.379	0.020	1.40										
42.790	8.7556	0.1739378	-0.0028041	5	18.6	30.1	0.5	0.11963	80.0	75.0	2.120	2.25	1.80	143.80	0.357	0.020	1.32										
42.810	9.2631	0.1411363	-0.0053349	5	18.6	25.0	0.5	0.11983	84.6	79.6	1.621	2.15	1.56	131.71	0.292	0.020	1.08										
42.830	7.1824	0.1130366	0.2794228	5	15.3	29.1	0.5	0.12003	68.1	63.1	1.635	2.23	1.75	118.94	0.236	0.019	0.88										
42.850	10.7328	0.1106038	0.1351087	6	19.8	17.5	0.5	0.12023	99.1	94.1	1.072	1.98	1.28	126.43	0.268	0.019	0.99										
42.870	11.6128	0.1125988	0.0735592	6	20.9	16.2	0.5	0.12043	106.5	101.5	1.011	1.94	1.23	130.83	0.288	0.019	1.07										
42.890	11.9125	0.1169204	0.0563944	6	21.5	16.0	0.5	0.12063	109.0	104.0	1.024	1.94	1.22	133.37	0.301	0.019	1.12										

CPT Verileri														O BÖLGESİ													
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı										
Kontı Uç Direnci	Boşluk Suyu Basıncı															24	2.68										
42.910	11.2149	0.1051439	0.0634486	6	20.1	16.4	0.5	0.12083	102.5	97.5	0.981	1.95	1.23	126.59	0.269	0.019	1.00										
42.930	12.6628	0.1027174	0.0611246	6	21.8	13.6	0.5	0.12103	115.7	110.7	0.844	1.86	1.16	133.59	0.302	0.019	1.12										
42.950	13.3341	0.1106413	0.0720579	6	22.9	13.2	0.5	0.12123	121.8	116.8	0.861	1.85	1.14	139.36	0.332	0.019	1.24										
42.970	16.3447	0.1077832	0.085937	6	26.1	9.6	0.5	0.12143	149.1	144.1	0.679	1.71	1.05	156.16	0.434	0.019	1.62										
42.990	20.7698	0.0000075	0.2346415	5	59.5	50.3	0.5	0.12163	190.5	185.5	0.000	2.54	2.99	568.58	17.174	0.019	4.00										
43.010	20.7698	0.000075	0.2346415	5	59.5	50.3	0.5	0.12183	190.3	185.3	0.000	2.54	2.99	568.47	17.165	0.019	4.00										
43.030	19.683	0.0008005	0.485938	6	33.5	9.8	0.5	0.12203	182.6	177.6	0.004	1.72	1.05	192.17	0.740	0.019	2.77										
43.050	37.5229	0.0697457	0.5967157	7	36.8	1.5	0.5	0.12223	344.8	339.8	0.186	1.10	1.00	344.79	3.892	0.019	4.00										
43.190	30.8155	0.0433034	0.4722572	7	30.4	1.7	0.5	0.12363	281.4	276.4	0.141	1.14	1.00	281.39	2.152	0.019	4.00										
43.210	27.826	0.0921229	0.442403	6	34.8	3.5	0.5	0.12383	254.0	249.0	0.332	1.34	1.00	254.03	1.605	0.019	4.00										
43.230	22.6235	0.0443541	0.3274615	6	26.2	3.2	0.5	0.12403	206.1	201.1	0.198	1.32	1.00	206.08	0.894	0.019	3.36										
43.250	18.9188	0.0169861	0.2212723	7	20.7	3.1	0.5	0.12423	171.7	166.7	0.091	1.31	1.00	171.72	0.551	0.019	2.09										
43.270	17.0327	0.057879	0.2872688	6	23.6	6.1	0.5	0.12443	155.3	150.3	0.345	1.54	1.00	155.27	0.428	0.019	1.62										
43.290	16.4569	0.0810469	0.2690277	6	24.9	8.0	0.5	0.12463	149.8	144.8	0.501	1.64	1.00	149.82	0.383	0.019	1.49										
43.310	16.2036	0.0721598	0.2646894	6	24.1	7.6	0.5	0.12483	147.4	142.4	0.454	1.62	1.00	147.40	0.378	0.019	1.44										
43.330	15.0747	0.0506895	0.2827368	6	21.4	7.0	0.5	0.12503	137.3	132.3	0.343	1.59	1.00	137.34	0.321	0.018	1.22										
43.350	14.307	0.0511398	0.2977772	6	20.8	7.6	0.5	0.12523	130.5	125.5	0.364	1.62	1.00	130.51	0.287	0.018	1.09										
43.370	14.129	0.0473561	0.3261868	6	20.4	7.4	0.5	0.12543	129.1	124.1	0.341	1.61	1.00	129.07	0.280	0.018	1.07										
43.390	14.5839	0.050652	0.3438898	6	21.1	7.3	0.5	0.12563	133.2	128.2	0.353	1.61	1.00	133.18	0.300	0.018	1.14										
43.410	14.2368	0.0523718	0.3444563	6	20.9	7.8	0.5	0.12583	130.0	125.0	0.374	1.63	1.00	129.99	0.284	0.018	1.09										
43.450	12.895	0.050702	0.3904555	6	19.6	8.8	0.5	0.12623	118.2	113.3	0.398	1.68	1.02	121.15	0.245	0.018	0.94										
43.470	12.81	0.0325151	0.4132285	6	18.1	7.2	0.5	0.12643	117.6	112.6	0.257	1.60	1.00	117.60	0.231	0.018	0.89										
43.490	12.9485	0.0281497	0.4173923	6	17.8	6.6	0.5	0.12663	116.8	113.8	0.220	1.57	1.00	118.78	0.236	0.017	0.90										
43.510	12.5015	0.0269889	0.4060907	6	17.3	6.9	0.5	0.12683	114.6	109.6	0.218	1.58	1.00	114.61	0.220	0.017	0.84										
43.530	10.9011	0.0227462	0.3298407	6	15.4	8.0	0.5	0.12703	99.6	94.7	0.213	1.64	1.00	99.29	0.171	0.017	0.66										
43.550	9.0808	0.0400075	0.3253088	6	15.0	13.2	0.5	0.12723	83.4	78.4	0.452	1.85	1.14	95.38	0.161	0.017	0.62										
43.570	7.6268	0.054123	0.3488749	6	14.2	19.2	0.5	0.12743	70.7	65.7	0.730	2.02	1.33	93.79	0.157	0.016	0.60										
43.590	7.4962	0.0743362	0.4501922	5	15.0	22.6	0.5	0.12763	70.3	65.4	1.007	2.10	1.46	102.39	0.180	0.016	0.69										
43.610	8.1263	0.1056255	0.4446973	5	16.9	24.5	0.5	0.12783	75.8	70.8	1.319	2.14	1.54	116.73	0.228	0.015	0.86										
43.630	10.8862	0.0942556	0.1923245	6	19.8	16.5	0.5	0.12803	97.9	92.9	0.896	1.95	1.24	121.17	0.245	0.015	0.95										
43.650	11.8074	0.0936427	0.0026059	6	20.6	15.0	0.5	0.12823	104.3	99.3	0.833	1.91	1.19	124.57	0.260	0.015	1.00										
43.670	12.3832	0.0943619	-0.026257	6	21.3	14.2	0.5	0.12843	109.0	104.1	0.800	1.88	1.17	127.60	0.273	0.015	1.06										
43.690	12.9844	0.094487	-0.031752	6	22.0	13.3	0.5	0.12863	114.2	109.2	0.763	1.85	1.15	130.83	0.288	0.014	1.12										
43.710	12.1798	0.0950248	0.3832597	6	21.6	13.9	0.5	0.12883	110.8	105.8	0.791	1.87	1.15	128.84	0.279	0.014	1.08										
43.730	12.4673	0.0789518	0.3514808	6	21.1	12.2	0.5	0.12903	112.8	107.9	0.644	1.81	1.12	125.96	0.266	0.014	1.03										
43.750	13.5646	0.0589074	0.3444563	6	21.0	9.1	0.5	0.12923	122.4	117.4	0.442	1.69	1.03	126.46	0.268	0.014	1.04										
43.770	16.6549	0.0626786	0.3246007	6	24.1	6.9	0.5	0.12943	149.2	144.3	0.382	1.58	1.00	149.25	0.389	0.014	1.51										
43.790	18.3947	0.0724037	0.1444558	6	26.3	6.5	0.5	0.12963	162.8	157.8	0.403	1.56	1.00	162.83	0.482	0.014	1.87										
43.810	21.5016	0.0889883	-0.0209603	6	29.9	5.7	0.5	0.12983	188.5	183.5	0.416	1.52	1.00	188.52	0.703	0.014	2.74										
43.830	22.0573	0.0672003	-0.0435067	6	28.6	4.7	0.5	0.13003	193.1	188.1	0.313	1.44	1.00	193.05	0.749	0.014	2.92										
43.850	20.832	0.0550361	-0.0376435	6	26.5	4.6	0.5	0.13023	182.2	177.2	0.272	1.44	1.00	182.22	0.643	0.014	2.51										

CPT Verileri													O BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Koni Uç Direnci	Sürtünme Katsayısı	Boşluk Suyu Basıncı				[%]		[MPa]			[%]					24	2.68
43.870	20.0879	0.0422527	-0.0297975	6	24.6	4.2	0.5	0.13043	175.6	170.6	0.217	1.41	1.00	175.63	0.584	0.014	2.68
43.890	19.0949	0.0283186	-0.1015368	6	22.4	3.9	0.5	0.13063	167.0	162.0	0.153	1.38	1.00	166.98	0.513	0.014	2.01
43.910	15.1746	0.0243847	-0.0031724	6	18.1	5.3	0.5	0.13083	132.6	127.7	0.167	1.49	1.00	132.64	0.297	0.014	1.16
43.930	12.8074	0.0429407	0.0015295	6	18.8	8.9	0.5	0.13103	111.9	106.9	0.351	1.68	1.03	114.89	0.221	0.014	0.87
43.950	11.8398	0.0882111	0.0362839	6	21.1	15.6	0.5	0.13123	103.7	98.7	0.874	1.92	1.21	125.76	0.265	0.014	1.04
43.970	11.8372	0.1049438	0.0840676	6	21.4	16.1	0.5	0.13143	104.0	99.0	0.925	1.94	1.23	127.66	0.273	0.013	1.07
43.990	11.6207	0.0967922	0.3643118	6	21.2	15.3	0.5	0.13163	104.5	99.5	0.848	1.91	1.20	125.66	0.265	0.013	1.04
44.010	12.186	0.0766378	0.1768592	6	20.6	12.8	0.5	0.13183	107.7	102.7	0.650	1.84	1.13	122.13	0.249	0.013	0.98
44.030	13.1194	0.1011101	0.1171713	6	22.9	13.7	0.5	0.13203	115.2	110.2	0.798	1.86	1.16	133.23	0.300	0.013	1.18
44.050	14.6269	0.116664	0.0672711	6	25.3	12.8	0.5	0.13223	127.8	122.8	0.826	1.84	1.13	144.89	0.363	0.013	1.43
44.070	15.3525	0.1705431	0.0208753	6	28.4	15.3	0.5	0.13243	133.6	128.6	1.152	1.91	1.20	160.63	0.465	0.013	1.84
44.170	13.3569	0.4372492	-0.0428552	5	31.2	33.2	0.5	0.13343	115.3	110.3	3.432	2.30	1.96	225.63	1.148	0.013	4.00
44.190	11.8161	0.6480374	0.1650762	5	31.1	47.2	0.5	0.13363	103.6	98.7	5.682	2.50	2.79	288.66	2.317	0.013	4.00
44.210	14.7101	0.6937299	0.0887978	5	37.1	39.0	0.5	0.13383	127.9	122.9	4.878	2.39	2.28	292.04	2.396	0.013	4.00
44.230	21.5288	0.4217953	0.692623	6	45.4	17.2	0.5	0.13403	191.9	187.0	1.948	1.97	1.26	241.83	1.395	0.013	4.00
44.250	22.017	0.2355169	0.4117557	6	39.8	11.1	0.5	0.13423	193.6	188.6	1.078	1.78	1.09	210.85	0.952	0.013	3.79
44.270	22.0985	0.1535682	0.3991229	6	35.8	8.2	0.5	0.13443	194.0	189.1	0.701	1.65	1.00	194.45	0.764	0.013	3.04
44.290	22.4131	0.1097094	0.4071104	6	33.3	6.3	0.5	0.13463	196.7	191.7	0.493	1.55	1.00	196.67	0.788	0.013	3.14
44.310	22.4342	0.0715782	0.4346137	6	30.1	4.7	0.5	0.13483	196.9	192.0	0.321	1.45	1.00	196.95	0.790	0.013	3.15
44.330	22.1002	0.0618593	0.4350102	6	28.9	4.4	0.5	0.13503	193.9	189.0	0.282	1.43	1.00	193.93	0.758	0.013	3.03
44.350	21.662	0.0584696	0.4328575	6	28.3	4.5	0.5	0.13523	190.0	185.0	0.272	1.43	1.00	190.00	0.718	0.013	2.87
44.370	21.2229	0.0769755	0.44127	6	29.7	5.5	0.5	0.13543	186.2	181.2	0.365	1.50	1.00	186.16	0.680	0.013	2.72
44.390	21.7838	0.0826229	0.4413833	6	30.7	5.5	0.5	0.13563	190.8	185.9	0.382	1.50	1.00	190.84	0.726	0.013	2.91
44.410	22.0135	0.0822793	0.4384658	6	31.7	5.8	0.5	0.13583	192.6	187.7	0.422	1.52	1.00	192.64	0.745	0.013	2.99
44.430	22.6638	0.0952312	0.4359733	6	32.5	5.7	0.5	0.13603	198.1	193.1	0.423	1.51	1.00	198.06	0.803	0.013	3.22
44.450	22.8619	0.0957503	0.4351518	6	32.7	5.6	0.5	0.13623	199.6	194.6	0.422	1.51	1.00	199.60	0.820	0.013	3.29
44.470	22.4245	0.097569	0.4263429	6	32.5	5.9	0.5	0.13643	195.6	190.7	0.438	1.52	1.00	195.64	0.776	0.013	3.12
44.490	9.3823	0.0367866	0.4414116	6	15.6	12.8	0.5	0.13663	84.0	79.1	0.398	1.83	1.13	95.12	0.160	0.013	0.64
44.510	10.4568	0.0409394	0.4450088	6	17.1	11.6	0.5	0.13683	93.2	88.2	0.397	1.79	1.10	102.52	0.180	0.012	0.73
44.530	14.2491	0.0873448	0.4982875	6	24.1	11.0	0.5	0.13703	126.0	121.0	0.617	1.77	1.09	136.88	0.319	0.012	1.28
44.550	15.7706	0.0881453	0.4416948	6	25.7	9.6	0.5	0.13723	138.4	133.4	0.564	1.72	1.05	145.04	0.364	0.012	1.47
44.570	21.1125	0.1016041	0.4340472	6	31.8	6.7	0.5	0.13743	183.8	178.8	0.485	1.57	1.00	183.80	0.657	0.012	2.65
44.590	22.194	0.0869132	0.4405335	6	31.6	5.6	0.5	0.13763	192.9	188.0	0.394	1.51	1.00	192.94	0.748	0.012	3.02
44.610	24.4938	0.0862941	0.4415532	6	33.4	4.7	0.5	0.13783	212.4	207.4	0.354	1.44	1.00	212.39	0.971	0.012	3.93
44.630	24.3877	0.140636	0.4228306	6	37.6	6.7	0.5	0.13803	211.2	206.2	0.581	1.57	1.00	211.18	0.956	0.012	3.87
44.650	21.8022	0.1039056	0.4417232	6	32.6	6.5	0.5	0.13823	189.2	184.2	0.480	1.56	1.00	189.20	0.710	0.012	2.86
44.670	16.5136	0.1158322	0.3523588	6	28.1	10.8	0.5	0.13843	143.4	138.4	0.711	1.76	1.04	154.89	0.426	0.012	1.73
44.690	14.4779	0.066062	0.3154235	6	22.9	9.5	0.5	0.13863	125.6	120.7	0.469	1.71	1.08	131.23	0.290	0.012	1.18
44.710	14.1203	0.0825473	0.3649633	6	22.3	9.5	0.5	0.13883	122.9	118.0	0.450	1.71	1.04	128.37	0.277	0.012	1.12
44.730	13.4288	0.0984383	0.4484928	6	23.8	13.1	0.5	0.13903	117.7	112.7	0.741	1.85	1.14	134.35	0.306	0.012	1.24
44.750	13.0002	0.1098846	0.2139362	6	23.6	15.0	0.5	0.13923	112.0	107.0	0.870	1.91	1.19	133.76	0.303	0.012	1.23

CPT Verileri													O BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	σ'_{v0}	qc1N	Q	F	Ic	Kc	(qc1N) ^{0.5}	CRR	Oturma [mm]	FL Güvenlik Katsayısı
Direnci	Konu Uç	Sürtünme	Boşluk					[MPa]			[%]					24	2.68
Katsayısı	Suyu Basıncı																
44.770	13.37	0.0939866	0.1155363	6	23.2	13.3	0.5	0.13943	114.2	109.2	0.729	1.85	1.15	131.05	0.289	0.012	1.18
44.790	11.6189	0.0920979	0.0456877	6	20.9	16.2	0.5	0.13963	98.7	93.7	0.831	1.94	1.23	121.38	0.246	0.012	1.00
44.810	9.5181	0.0936301	0.0061465	5	18.2	21.5	0.5	0.13983	80.5	75.6	1.048	2.08	1.41	113.76	0.217	0.011	0.89
44.830	7.8389	0.0965383	0.0128594	5	16.0	28.0	0.5	0.14003	68.4	61.4	1.329	2.21	1.69	112.29	0.212	0.011	0.88
44.850	6.2718	0.1247255	0.0331965	5	14.3	41.4	0.5	0.14023	53.2	48.3	2.182	2.43	2.42	129.08	0.280	0.011	1.15
44.870	6.5172	0.1279276	0.0949443	5	14.9	39.7	0.5	0.14043	55.8	50.8	2.124	2.40	2.32	129.53	0.282	0.011	1.15
44.890	6.7223	0.1232808	0.0780628	5	15.1	37.7	0.5	0.14063	57.3	52.4	1.985	2.37	2.21	126.60	0.269	0.011	1.10
44.910	6.3533	0.1506488	0.0815467	5	15.0	44.4	0.5	0.14083	54.2	49.3	2.577	2.47	2.61	141.59	0.344	0.011	1.41
44.930	6.8117	0.1705744	0.1739418	5	16.3	43.0	0.5	0.14103	58.8	53.9	2.669	2.45	2.52	148.52	0.385	0.011	1.58
44.950	8.1281	0.1480971	0.1815328	5	18.1	32.7	0.5	0.14123	69.9	65.0	1.919	1.93	1.93	134.81	0.308	0.011	1.26
44.970	10.6645	0.1639137	0.1807068	5	22.3	24.9	0.5	0.14143	91.2	86.2	1.599	2.15	1.55	141.40	0.343	0.011	1.41
44.990	11.278	0.1783335	0.1608275	6	21.7	19.3	0.5	0.14163	96.1	91.1	1.086	2.02	1.33	127.95	0.275	0.010	1.13
45.010	14.1816	0.1285593	0.3632072	6	26.2	14.6	0.5	0.14203	122.0	117.1	0.921	1.89	1.18	144.39	0.360	0.010	1.48
45.030	18.3535	0.1480909	0.1119857	6	31.7	11.3	0.5	0.14223	154.8	149.9	0.829	1.78	1.09	169.33	0.532	0.010	2.19
45.050	22.3412	0.1255761	0.1130721	6	34.7	7.5	0.5	0.14243	188.1	183.2	0.574	1.61	1.00	188.15	0.699	0.010	2.69
45.070	23.0924	0.1339754	0.172129	6	36.1	7.4	0.5	0.14263	194.8	189.8	0.591	1.61	1.00	194.80	0.767	0.010	3.17
45.110	23.2212	0.1270333	0.2314692	6	35.8	7.0	0.5	0.14283	196.2	191.3	0.556	1.59	1.00	196.24	0.783	0.010	3.24
45.130	22.8154	0.1289783	0.2381255	6	35.6	7.3	0.5	0.14303	192.8	187.8	0.574	1.61	1.00	192.76	0.746	0.010	3.09
45.150	20.3842	0.1303542	0.2259742	6	33.2	8.8	0.5	0.14323	172.2	167.2	0.651	1.68	1.02	176.43	0.591	0.010	2.45
45.170	17.1168	0.1348885	0.1879908	6	29.8	11.8	0.5	0.14343	144.5	139.5	0.807	1.80	1.11	159.92	0.460	0.010	1.91
45.190	15.6742	0.123975	0.1552758	6	27.6	12.8	0.5	0.14363	132.1	127.1	0.814	1.83	1.13	149.58	0.391	0.010	1.62
45.210	13.9862	0.1173332	0.1594679	6	25.3	14.5	0.5	0.14383	118.0	113.0	0.866	1.89	1.18	139.29	0.331	0.010	1.38
45.230	14.243	0.1240689	0.1904834	6	25.9	14.6	0.5	0.14403	120.3	115.3	0.897	1.89	1.18	142.31	0.348	0.010	1.45
45.250	14.6137	0.1531754	0.2966159	6	27.7	15.9	0.5	0.14423	124.2	119.2	1.070	1.93	1.22	151.50	0.403	0.010	1.68
45.270	13.3394	0.1387535	0.4774122	6	25.8	16.8	0.5	0.14443	115.0	110.0	1.050	1.95	1.24	142.97	0.352	0.010	1.47
45.290	14.3394	0.1194346	0.2718885	6	26.0	14.1	0.5	0.14463	121.5	116.5	0.852	1.88	1.17	141.96	0.346	0.010	1.44
45.310	15.122	0.1171206	0.1841387	6	26.7	13.0	0.5	0.14483	127.2	122.2	0.796	1.84	1.14	144.96	0.363	0.010	1.52
45.330	17.3806	0.1274273	0.1864046	6	29.8	11.2	0.5	0.14503	145.9	140.9	0.751	1.78	1.09	159.28	0.456	0.010	1.90
45.350	20.0222	0.1217673	0.0065996	6	32.2	9.0	0.5	0.14523	166.2	161.2	0.627	1.69	1.03	170.81	0.543	0.010	2.27
45.370	22.6445	0.1372462	-0.0176746	6	35.9	8.0	0.5	0.14543	187.5	182.7	0.623	1.64	1.00	187.03	0.688	0.010	2.88
45.390	23.3045	0.1130179	-0.0146439	6	34.9	6.7	0.5	0.14563	193.0	188.0	0.498	1.57	1.00	192.99	0.749	0.010	3.13
45.410	24.4105	0.1023796	0.0040788	6	35.1	5.8	0.5	0.14583	202.2	197.2	0.430	1.52	1.00	202.17	0.849	0.010	3.55
45.430	25.0056	0.1075705	0.0224331	6	36.0	5.7	0.5	0.14603	207.1	202.1	0.440	1.52	1.00	207.11	0.906	0.010	3.80
45.450	25.0617	0.1122674	0.0465658	6	36.5	5.9	0.5	0.14623	207.5	202.7	0.458	1.53	1.00	207.63	0.912	0.010	3.83
45.470	24.6673	0.1101097	0.0727377	6	36.0	6.0	0.5	0.14643	204.4	199.5	0.456	1.53	1.00	204.45	0.875	0.010	3.67
45.490	24.1677	0.1181337	0.1066424	6	36.2	6.5	0.5	0.14663	200.2	195.5	0.499	1.56	1.00	200.46	0.829	0.010	3.49
45.510	24.1073	0.1176584	0.148138	6	36.2	6.5	0.5	0.14683	200.2	195.2	0.497	1.56	1.00	200.17	0.826	0.010	3.47
45.530	21.712	0.1118108	0.4630233	6	33.9	7.3	0.5	0.14723	182.8	177.8	0.518	1.60	1.00	182.75	0.648	0.010	2.73
45.550	24.3439	0.1200912	0.453138	6	34.9	6.4	0.5	0.14763	204.2	199.3	0.496	1.55	1.00	204.22	0.876	0.010	3.68
45.570	25.315	0.1164764	0.4420914	6	37.5	5.8	0.5	0.14783	212.0	207.0	0.463	1.52	1.00	211.99	0.962	0.010	4.00
45.610	26.7497	0.1107289	0.4497957	6	38.3	5.1	0.5	0.14783	223.7	218.7	0.416	1.48	1.00	223.71	1.121	0.010	4.00

CPT Verileri														O BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı	
																24	2.68	
45.630	27.7611	0.1096907	0.4507021	6	39.1	4.8	0.5	0.14803	231.9	226.9	0.397	1.45	1.00		231.88	1.239	0.010	4.00
45.650	28.2774	0.115562	0.4472181	6	40.0	4.8	0.5	0.14823	235.9	231.0	0.411	1.45	1.00		235.93	1.301	0.010	4.00
45.670	30.294	0.1285718	0.5257058	6	42.9	4.6	0.5	0.14843	253.0	248.0	0.426	1.44	1.00		252.97	1.586	0.010	4.00
45.780	30.0469	0.0437287	0.4531097	7	33.4	2.4	0.5	0.14963	249.4	244.5	0.146	1.23	1.00		249.42	1.523	0.010	4.00
45.800	31.1722	0.0147659	0.4278158	7	31.8	1.9	0.5	0.14973	258.2	253.3	0.048	1.16	1.00		258.25	1.682	0.010	4.00
45.820	29.3186	0.0087808	0.4468499	7	31.9	2.3	0.5	0.14993	243.1	238.1	0.030	1.22	1.00		243.09	1.416	0.010	4.00
45.840	27.3895	0.0066919	0.4687449	7	31.5	2.7	0.5	0.15013	227.4	222.4	0.025	1.27	1.00		227.36	1.173	0.010	4.00
45.860	10.4182	0.0041652	0.4518067	6	14.9	8.1	0.5	0.15033	88.7	83.7	0.041	1.64	1.00		88.62	0.145	0.010	0.62
45.880	29.9592	0.0083357	0.464043	7	32.8	2.3	0.5	0.15053	248.0	243.0	0.028	1.22	1.00		247.97	1.498	0.010	4.00
45.900	78.0073	0.0303574	0.5287082	7	53.0	0.4	0.5	0.15073	639.7	634.7	0.039	0.78	1.00		639.69	24.424	0.010	4.00
45.920	72.0817	0.1223677	0.2932736	7	61.5	0.7	0.5	0.15093	589.1	584.1	0.171	0.91	1.00		589.12	19.094	0.010	4.00
45.940	66.213	0.2192062	-0.0673844	7	75.0	1.6	0.5	0.15113	538.1	533.1	0.334	1.12	1.00		538.05	14.566	0.010	4.00
45.960	42.9542	0.226905	-0.0070528	6	61.4	4.1	0.5	0.15133	349.1	344.2	0.536	1.40	1.00		349.12	4.037	0.010	4.00
45.980	29.876	0.366598	0.0688573	6	56.5	11.5	0.5	0.15153	243.3	238.3	1.318	1.79	1.10		267.03	1.851	0.010	4.00
46.000	23.2659	0.4122978	0.1074921	6	48.1	17.0	0.5	0.15173	169.8	164.8	1.811	1.96	1.26		238.34	1.339	0.010	4.00
46.020	23.3939	0.4324273	0.0220649	6	48.7	17.6	0.5	0.15193	190.0	185.0	1.896	1.98	1.27		241.98	1.398	0.010	4.00
46.040	21.6376	0.4351228	0.0016428	6	45.9	19.7	0.5	0.15213	174.6	169.7	2.079	2.03	1.35		235.29	1.291	0.010	4.00
46.060	21.1072	0.3507675	-0.0145022	6	43.1	17.5	0.5	0.15233	170.9	165.9	1.713	1.98	1.27		217.45	1.036	0.010	4.00
46.080	20.3736	0.2962505	0.0120663	6	40.5	16.4	0.5	0.15253	165.1	160.1	1.498	1.95	1.24		204.07	0.870	0.010	3.75
46.100	18.4227	0.0825416	0.5061618	6	29.0	8.0	0.5	0.15273	153.2	148.2	0.451	1.64	1.00		152.89	0.412	0.010	1.78
46.120	19.2886	0.0742362	0.5149141	6	28.2	7.0	0.5	0.15293	160.1	155.2	0.387	1.59	1.00		160.14	0.462	0.010	1.99
46.140	19.5796	0.0787641	0.5441452	6	29.9	7.1	0.5	0.15313	162.6	157.7	0.404	1.60	1.00		162.62	0.480	0.010	2.07
46.160	19.9495	0.0968072	0.4925943	6	31.6	7.9	0.5	0.15333	165.1	160.1	0.488	1.63	1.00		165.09	0.498	0.010	2.15
46.180	20.1449	0.1005847	0.4674442	6	32.0	8.0	0.5	0.15353	166.4	161.4	0.503	1.64	1.00		166.35	0.508	0.010	2.20
46.200	19.9126	0.100222	0.4667055	6	31.8	8.1	0.5	0.15373	164.4	159.4	0.507	1.65	1.00		164.39	0.493	0.010	2.13
46.220	20.0564	0.1057756	0.5125348	6	32.3	8.3	0.5	0.15393	165.8	160.8	0.530	1.65	1.01		166.76	0.511	0.010	2.21
46.240	20.8005	0.1088776	0.5071531	6	33.3	8.0	0.5	0.15413	171.6	166.7	0.526	1.64	1.00		171.63	0.550	0.010	2.38
46.260	23.854	0.1155758	0.4983725	6	36.8	6.7	0.5	0.15433	196.0	191.1	0.487	1.57	1.00		196.03	0.781	0.010	3.38
46.280	28.6839	0.1056693	0.5506032	6	40.3	4.5	0.5	0.15453	236.8	231.8	0.367	1.43	1.00		236.78	1.315	0.010	4.00
46.300	14.2701	0.0073423	0.6574721	6	19.0	5.6	0.5	0.15473	120.0	115.0	0.051	1.51	1.00		120.01	0.241	0.010	1.05
46.380	11.4883	0.001	0.487071	6	19.4	12.1	0.5	0.15533	95.1	91.1	0.009	1.81	1.11		107.06	0.194	0.009	0.84
46.380	11.4883	0.001	0.487071	6	19.4	12.1	0.5	0.15553	95.0	91.1	0.009	1.81	1.11		107.02	0.194	0.009	0.84
46.400	11.4883	0.001	0.4899317	6	19.4	12.1	0.5	0.15573	95.0	91.0	0.009	1.81	1.11		107.01	0.194	0.009	0.85
46.420	12.9327	0.001	0.4828789	6	21.9	11.6	0.5	0.15593	107.4	102.5	0.008	1.79	1.10		118.19	0.234	0.008	1.02
46.440	34.2809	0.6947306	-0.0300808	6	72.4	15.2	0.5	0.15613	274.1	269.1	2.066	1.91	1.20		328.54	3.378	0.008	4.00
46.460	29.4956	0.6947306	-0.0103385	6	64.7	18.5	0.5	0.15633	235.8	230.9	2.407	2.00	1.30		307.61	2.787	0.008	4.00
46.480	23.613	0.6947306	0.4517501	5	55.5	24.0	0.5	0.15653	192.3	187.4	2.963	2.13	1.51		290.89	2.369	0.008	4.00
46.500	21.9556	0.6947306	0.2482374	5	52.2	26.4	0.5	0.15673	177.4	172.4	3.219	2.18	1.62		287.58	2.292	0.008	4.00
46.520	21.0599	0.6947306	-0.0026342	5	50.1	28.2	0.5	0.15693	168.1	163.1	3.400	2.21	1.70		286.31	2.263	0.008	4.00
46.540	21.0099	0.6947306	0.0364538	5	50.1	28.2	0.5	0.15713	167.9	162.9	3.402	2.22	1.71		286.27	2.262	0.008	4.00
46.560	20.3403	0.4838547	0.0416373	5	45.3	23.2	0.5	0.15733	162.5	157.5	2.448	2.11	1.48		240.53	1.374	0.008	4.00

CPT Verileri													O BÖLGESİ				
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	$\sigma'v0$ [MPa]	qc1N	Q	F	Ic	Kc	(qc1N)/es	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																24	2.68
46.580	19.754	0.3983049	0.0430252	5	42.6	21.2	0.5	0.15753	157.7	152.8	2.077	2.07	1.40	221.05	1.085	0.008	4.00
46.600	18.173	0.282454	0.0682341	6	37.3	18.9	0.5	0.15773	145.3	140.3	1.603	2.01	1.32	191.38	0.732	0.008	3.21
46.620	16.8013	0.239851	0.0878065	6	34.1	18.9	0.5	0.15793	134.4	129.4	1.475	2.01	1.32	177.03	0.596	0.008	2.62
46.660	17.6961	0.1245192	0.5248277	6	31.2	11.3	0.5	0.15833	144.8	139.8	0.708	1.78	1.09	158.30	0.449	0.008	1.98
46.680	19.2772	0.1506575	0.4572734	6	34.4	11.3	0.5	0.15853	156.7	151.8	0.788	1.78	1.09	171.45	0.549	0.008	2.42
46.700	20.825	0.152844	0.2522878	6	36.0	10.4	0.5	0.15873	167.3	162.3	0.747	1.75	1.07	178.71	0.611	0.008	2.69
46.720	21.7269	0.1534381	0.1501774	6	37.0	9.8	0.5	0.15893	173.5	168.5	0.722	1.72	1.05	182.81	0.648	0.008	2.66
46.740	22.6112	0.1575846	0.0695371	6	38.1	9.5	0.5	0.15913	179.8	174.8	0.715	1.71	1.04	187.59	0.694	0.008	3.06
46.760	22.9013	0.1535257	0.0292027	6	38.2	9.2	0.5	0.15933	181.7	176.7	0.688	1.69	1.03	187.88	0.697	0.008	3.08
46.780	22.9889	0.1401794	0.0677809	6	37.5	8.6	0.5	0.15953	182.5	177.6	0.625	1.67	1.02	185.37	0.672	0.008	2.97
46.800	22.776	0.1254573	0.0784593	6	36.4	8.1	0.5	0.15973	180.8	175.9	0.564	1.64	1.00	180.70	0.629	0.008	2.78
46.820	18.5349	0.103487	0.076335	6	30.5	9.9	0.5	0.15993	147.2	142.2	0.575	1.72	1.05	155.17	0.427	0.008	1.89
46.840	14.8398	0.0808655	0.0559412	6	25.1	11.9	0.5	0.16013	117.7	112.7	0.567	1.81	1.11	130.71	0.288	0.008	1.27
46.860	12.4638	0.0856127	0.0606431	6	23.0	16.7	0.5	0.16033	98.9	93.9	0.804	1.96	1.25	123.27	0.254	0.008	1.13
46.880	12.1904	0.1393726	0.0917153	5	24.4	21.1	0.5	0.16053	96.9	92.0	1.196	2.07	1.40	135.56	0.312	0.008	1.38
46.900	13.1413	0.2026016	0.352812	5	28.1	23.1	0.5	0.16073	106.4	101.5	1.575	2.11	1.43	157.32	0.442	0.008	1.96
46.940	17.8136	0.1468338	0.6848054	6	32.8	12.4	0.5	0.16113	145.7	140.8	0.822	1.82	1.12	163.62	0.487	0.008	2.16
46.960	19.1405	0.1233997	0.3172646	6	32.7	10.3	0.5	0.16133	153.2	148.2	0.655	1.74	1.07	163.57	0.487	0.008	2.16
46.980	20.18	0.1297226	0.1434361	6	34.1	10.0	0.5	0.16153	159.9	154.9	0.659	1.73	1.05	169.24	0.531	0.008	2.36
47.000	20.6655	0.1287094	0.1549926	6	34.6	9.6	0.5	0.16173	163.7	158.8	0.638	1.71	1.05	171.42	0.548	0.008	2.44
47.020	20.3859	0.1308358	0.1711376	6	34.4	9.9	0.5	0.16193	161.5	156.5	0.657	1.73	1.06	170.53	0.541	0.008	2.41
47.040	20.612	0.1255698	0.2290049	6	34.4	9.5	0.5	0.16213	163.7	158.7	0.621	1.71	1.04	170.70	0.543	0.008	2.41
47.060	20.8872	0.0899527	0.3113164	6	32.4	7.5	0.5	0.16233	166.4	161.4	0.437	1.62	1.00	166.38	0.508	0.008	2.26
47.080	21.5279	0.0809531	0.3459575	6	32.3	6.7	0.5	0.16253	171.5	166.6	0.381	1.57	1.00	171.58	0.550	0.008	2.45
47.100	21.5726	0.0825854	0.3513675	6	32.5	6.8	0.5	0.16273	171.9	166.9	0.388	1.58	1.00	171.86	0.552	0.008	2.46
47.120	21.4517	0.089246	0.3804569	6	33.0	7.1	0.5	0.16293	171.0	166.1	0.421	1.60	1.00	171.04	0.545	0.008	2.43
47.140	21.1361	0.0881516	0.3952707	6	32.6	7.3	0.5	0.16313	168.6	163.6	0.422	1.60	1.00	168.58	0.526	0.008	2.34
47.160	20.8601	0.0858751	0.4039664	6	32.2	7.3	0.5	0.16333	166.4	161.4	0.416	1.61	1.00	166.38	0.508	0.008	2.27
47.180	20.456	0.0848869	0.43586	6	31.8	7.5	0.5	0.16353	163.4	158.4	0.419	1.61	1.00	163.37	0.486	0.008	2.17
47.200	19.626	0.0782326	0.4277874	6	30.5	7.6	0.5	0.16373	156.7	151.8	0.403	1.62	1.00	156.72	0.438	0.008	1.96
47.220	11.6321	0.0597642	0.4860229	6	20.8	14.0	0.5	0.16393	94.6	89.7	0.521	1.88	1.17	110.39	0.205	0.008	0.92
47.240	14.8004	0.0624222	0.4367947	6	22.7	12.1	0.5	0.16413	118.9	114.0	0.428	1.74	1.07	126.86	0.270	0.008	1.21
47.260	13.2657	0.0624785	0.4096313	6	22.7	12.1	0.5	0.16433	106.7	101.7	0.479	1.81	1.11	118.87	0.236	0.008	1.06
47.280	11.9932	0.0755183	0.375925	6	22.0	15.4	0.5	0.16453	96.4	91.5	0.644	1.92	1.20	116.17	0.226	0.007	1.01
47.300	11.4971	0.0902154	0.4079035	6	22.1	17.8	0.5	0.16473	92.8	87.8	0.801	1.98	1.28	118.67	0.235	0.007	1.05
47.320	13.8319	0.1469901	0.5798626	6	27.8	17.9	0.5	0.16493	112.2	107.3	1.067	1.99	1.29	144.27	0.359	0.007	1.61
47.340	15.4744	0.1361268	0.5200692	6	29.5	14.9	0.5	0.16513	124.5	119.5	0.886	1.90	1.19	148.22	0.383	0.007	1.71
47.360	16.1685	0.1197348	0.3067561	6	29.3	13.3	0.5	0.16533	128.1	123.2	0.756	1.85	1.15	146.74	0.374	0.007	1.68
47.380	15.9345	0.1210419	0.2358312	6	28.0	13.7	0.5	0.16553	125.7	120.7	0.779	1.87	1.16	145.51	0.367	0.007	1.64
47.400	15.6269	0.1154695	0.2309027	6	28.3	13.7	0.5	0.16573	123.2	118.2	0.759	1.87	1.16	142.68	0.350	0.007	1.57
47.420	15.0686	0.1031364	0.2652888	6	27.1	13.5	0.5	0.16593	119.0	114.1	0.702	1.86	1.15	137.19	0.320	0.007	1.44

CPT Verileri											O BÖLGESİ										
Derinlik m	qc	fs	u	Alan No.	Nc	Fc	n	σ'_{v0}	qc1N	Q	F	Ic	Kc	(qc1N)/es	CRR	Oturma [mm]	FL Güvenlik Katsayısı				
Direnci	Konu Uç Katsayısı	Sürtünme Katsayısı	Boşluk Suyu Basıncı			[%]		[MPa]			[%]					24	2.68				
47.440	13.8784	0.1006848	0.2858242	6	25.6	14.9	0.5	0.16613	109.9	104.9	0.745	1.90	1.19	131.02	0.289	0.007	1.30				
47.460	13.5453	0.0921917	0.311543	6	24.8	14.7	0.5	0.16633	107.4	102.5	0.698	1.90	1.19	127.36	0.272	0.007	1.22				
47.480	13.1948	0.079746	0.3493564	6	23.7	14.1	0.5	0.16653	105.0	100.0	0.618	1.88	1.17	122.53	0.251	0.007	1.13				
47.500	12.2105	0.0887082	0.4294019	6	23.1	16.4	0.5	0.16673	97.9	92.9	0.739	1.95	1.24	120.94	0.245	0.007	1.10				
47.520	12.1956	0.0893586	0.4283256	6	23.1	16.5	0.5	0.16693	97.7	92.7	0.746	1.95	1.24	121.04	0.245	0.007	1.10				
47.540	12.3569	0.1016667	0.4352935	6	23.9	17.4	0.5	0.16713	99.0	94.0	0.837	1.97	1.27	125.30	0.263	0.007	1.18				
47.560	12.484	0.1046689	0.3468639	6	24.1	17.6	0.5	0.16733	99.2	94.2	0.860	1.98	1.27	126.36	0.268	0.007	1.21				
47.580	14.0502	0.1211544	0.2920273	6	26.8	16.4	0.5	0.16753	110.8	105.8	0.884	1.95	1.24	136.89	0.319	0.007	1.44				
47.600	16.1133	0.1453453	0.1839687	6	30.4	15.3	0.5	0.16773	125.8	120.9	0.929	1.91	1.20	151.21	0.402	0.007	1.81				
47.620	18.4288	0.1390287	0.1790685	6	33.0	12.3	0.5	0.16793	143.6	138.6	0.774	1.82	1.12	160.82	0.467	0.007	2.10				
47.640	22.7549	0.1233496	0.1816461	6	36.9	8.3	0.5	0.16813	176.9	171.9	0.553	1.66	1.01	178.26	0.607	0.007	2.74				
47.660	23.6112	0.0971262	0.2131998	6	35.9	6.7	0.5	0.16833	183.6	178.7	0.419	1.58	1.00	183.63	0.656	0.007	2.96				
47.680	23.6191	0.0857813	0.2355479	6	35.0	6.2	0.5	0.16853	183.8	178.8	0.370	1.55	1.00	183.75	0.657	0.007	2.97				
47.700	23.2519	0.0817786	0.2673282	6	34.4	6.2	0.5	0.16873	181.1	176.1	0.368	1.55	1.00	181.06	0.632	0.007	2.86				
47.720	23.7138	0.0904956	0.3467222	6	35.6	6.4	0.5	0.16893	185.1	180.1	0.386	1.55	1.00	185.12	0.670	0.007	3.03				
47.740	24.6331	0.0902029	0.4069971	6	36.5	6.0	0.5	0.16913	192.5	187.6	0.370	1.53	1.00	192.54	0.744	0.007	3.36				
47.760	23.9031	0.0936677	0.4864478	6	36.2	6.4	0.5	0.16933	187.4	182.5	0.395	1.55	1.00	187.43	0.692	0.007	3.13				
47.780	26.2668	0.100591	0.4768174	6	39.0	5.7	0.5	0.16953	205.4	200.4	0.385	1.51	1.00	205.40	0.886	0.007	4.00				
47.800	26.9995	0.1015416	0.4669715	6	39.7	5.5	0.5	0.16973	210.8	205.9	0.379	1.50	1.00	210.84	0.952	0.007	4.00				
47.820	27.2928	0.0989711	0.4719739	6	39.7	5.3	0.5	0.16993	212.7	207.7	0.366	1.49	1.00	212.68	0.975	0.007	4.00				
47.840	26.5613	0.0994652	0.4578116	6	39.2	5.6	0.5	0.17013	207.1	202.2	0.377	1.51	1.00	207.15	0.907	0.007	4.00				
47.860	25.3492	0.0992526	0.4476713	6	38.1	6.1	0.5	0.17033	197.7	192.7	0.395	1.54	1.00	197.66	0.798	0.007	3.62				
47.880	22.9618	0.0962131	0.4259463	6	35.6	7.0	0.5	0.17053	179.1	174.1	0.423	1.59	1.00	179.10	0.614	0.007	2.79				
47.900	22.2895	0.0885633	0.4134551	6	34.4	7.0	0.5	0.17073	173.8	168.8	0.403	1.59	1.00	173.75	0.568	0.007	2.58				
47.920	21.7365	0.0874699	0.4064306	6	33.7	7.2	0.5	0.17093	169.4	164.4	0.407	1.60	1.00	169.37	0.532	0.007	2.41				
47.940	20.6716	0.0872947	0.4268828	6	32.7	7.8	0.5	0.17113	161.3	156.3	0.427	1.63	1.00	161.28	0.470	0.007	2.14				
47.960	20.8688	0.0826167	0.4526282	6	32.6	7.5	0.5	0.17133	162.9	157.9	0.400	1.61	1.00	162.89	0.482	0.007	2.19				
47.980	21.5192	0.0797273	0.4823691	6	33.0	7.0	0.5	0.17153	168.0	163.0	0.373	1.59	1.00	167.99	0.521	0.007	2.37				
48.000	21.8575	0.0755971	0.4782903	6	33.0	6.6	0.5	0.17173	170.4	165.5	0.349	1.57	1.00	170.44	0.540	0.007	2.46				
48.020	16.2299	0.0506707	0.5280567	6	25.5	8.4	0.5	0.17193	127.8	122.8	0.315	1.66	1.01	129.26	0.281	0.007	1.28				
48.040	21.0643	0.0635229	0.4852298	6	31.2	6.4	0.5	0.17213	164.3	159.3	0.304	1.55	1.00	164.25	0.492	0.006	2.24				
48.060	20.8329	0.0620407	0.473815	6	30.8	6.4	0.5	0.17233	162.3	157.3	0.300	1.56	1.00	162.31	0.478	0.006	2.18				
48.080	20.3588	0.0620157	0.4801881	6	32.2	5.7	0.5	0.17253	173.9	168.9	0.280	1.52	1.00	173.88	0.569	0.006	2.59				
48.100	24.0056	0.086072	0.4843518	6	33.3	5.0	0.5	0.17273	186.3	181.4	0.246	1.46	1.00	186.34	0.682	0.006	3.11				
48.120	25.3229	0.0734419	0.483757	6	35.9	5.1	0.5	0.17293	196.2	191.3	0.292	1.48	1.00	196.24	0.783	0.006	3.57				
48.140	26.0083	0.0809593	0.4823407	6	37.3	5.2	0.5	0.17313	201.3	196.4	0.313	1.48	1.00	201.33	0.839	0.006	3.63				
48.160	26.0284	0.0854623	0.4821141	6	37.7	5.4	0.5	0.17333	201.4	196.4	0.331	1.49	1.00	201.36	0.839	0.006	3.63				
48.180	25.5604	0.0922167	0.478262	6	37.9	5.8	0.5	0.17353	197.7	192.7	0.363	1.52	1.00	197.67	0.798	0.006	3.65				
48.200	24.6743	0.0933425	0.4631933	6	37.2	6.2	0.5	0.17373	190.2	185.2	0.382	1.55	1.00	190.20	0.720	0.006	3.31				
48.240	25.4061	0.0921167	0.4858247	6	37.8	5.9	0.5	0.17413	196.2	191.2	0.365	1.52	1.00	196.21	0.783	0.006	3.58				

CPT Verileri										Ö BÖLGESİ									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı		
48.260	25.9399	0.0902342	0.4801881	6	36.2	5.6	0.5	0.17433	200.1	195.1	0.350	1.51	1.00	200.10	0.825	24	2.68		
48.280	22.4718	0.0901529	0.6584352	6	35.1	7.0	0.5	0.17453	175.1	170.1	0.401	1.59	1.00	175.08	0.579	0.006	3.78		
48.300	25.1809	0.0833922	0.4908381	6	36.9	5.6	0.5	0.17473	194.2	189.2	0.333	1.51	1.00	194.21	0.761	0.006	2.65		
48.320	24.5823	0.0832859	0.4507871	6	36.3	5.9	0.5	0.17493	189.3	184.3	0.342	1.53	1.00	189.27	0.711	0.006	3.49		
48.340	23.1739	0.0870133	0.41946	6	35.4	6.7	0.5	0.17513	178.3	173.3	0.379	1.57	1.00	178.28	0.607	0.006	3.26		
48.360	21.8312	0.0870196	0.3933163	6	34.1	7.4	0.5	0.17533	167.8	162.9	0.404	1.61	1.00	167.84	0.520	0.006	2.78		
48.380	20.1221	0.0733481	0.3413689	6	31.3	7.6	0.5	0.17553	154.5	149.5	0.370	1.62	1.00	154.46	0.423	0.006	2.38		
48.400	15.3902	0.0677882	0.2970691	6	25.9	11.0	0.5	0.17573	118.3	113.4	0.451	1.77	1.08	128.36	0.277	0.006	1.94		
48.420	13.1132	0.1313049	0.3477419	6	26.4	19.4	0.5	0.17593	101.5	96.5	1.026	2.03	1.33	135.42	0.311	0.006	1.27		
48.440	18.91	0.190306	0.529473	6	36.8	14.6	0.5	0.17613	146.5	141.5	1.013	1.89	1.18	173.14	0.563	0.006	1.43		
48.460	20.8794	0.1941938	0.5184547	6	39.5	12.9	0.5	0.17633	161.1	156.2	0.936	1.84	1.14	182.97	0.650	0.006	2.59		
48.480	22.208	0.1401106	0.3011478	6	38.1	9.7	0.5	0.17653	169.4	164.4	0.641	1.72	1.05	177.90	0.604	0.006	2.99		
48.500	23.0371	0.1357378	0.3215699	6	38.8	9.0	0.5	0.17673	175.7	170.7	0.598	1.69	1.03	180.84	0.630	0.006	2.78		
48.520	23.6059	0.1325932	0.3893225	6	38.3	8.5	0.5	0.17693	180.4	175.4	0.568	1.66	1.01	182.89	0.649	0.006	2.90		
48.540	22.3071	0.1149879	0.6224629	6	37.0	8.4	0.5	0.17713	172.3	167.3	0.516	1.66	1.01	173.84	0.569	0.006	2.99		
48.560	22.7032	0.096068	0.4637853	6	35.9	7.4	0.5	0.17733	174.1	169.1	0.427	1.61	1.00	174.12	0.571	0.006	2.62		
48.580	21.8189	0.0771193	0.4721722	6	33.5	6.9	0.5	0.17753	167.3	162.3	0.357	1.59	1.00	167.30	0.515	0.006	2.63		
48.600	20.5831	0.0655617	0.3981882	6	31.2	7.0	0.5	0.17773	157.4	152.4	0.323	1.59	1.00	157.38	0.443	0.006	2.38		
48.620	17.3903	0.0691328	0.3962054	6	28.3	9.3	0.5	0.17793	133.3	128.4	0.404	1.70	1.04	136.46	0.327	0.006	2.04		
48.640	15.8574	0.0955064	0.3314269	6	28.3	12.7	0.5	0.17813	121.3	116.3	0.615	1.83	1.13	137.20	0.320	0.006	1.51		
48.660	14.5743	0.0922042	0.3602614	6	26.6	14.0	0.5	0.17833	111.8	106.9	0.646	1.88	1.17	130.44	0.286	0.006	1.46		
48.680	13.8372	0.0829231	0.3688721	6	25.2	14.2	0.5	0.17853	106.3	101.3	0.612	1.88	1.17	124.66	0.280	0.006	1.32		
48.700	14.7864	0.0968885	0.5036692	6	27.3	14.0	0.5	0.17873	114.4	109.4	0.663	1.87	1.16	133.19	0.300	0.006	1.20		
48.720	16.5638	0.1232433	0.5100989	6	30.9	13.7	0.5	0.17893	127.6	122.7	0.751	1.86	1.16	147.62	0.379	0.006	1.38		
48.740	22.35	0.1454266	0.4197999	6	36.9	9.9	0.5	0.17913	170.1	165.1	0.658	1.73	1.06	179.53	0.618	0.006	1.75		
48.760	24.2712	0.1459832	0.2114153	6	40.8	8.9	0.5	0.17933	182.8	177.8	0.613	1.68	1.03	187.50	0.693	0.006	2.86		
48.780	23.8549	0.1673472	0.1094465	6	41.5	10.0	0.5	0.17953	178.9	173.9	0.718	1.73	1.06	189.47	0.713	0.006	3.21		
48.820	18.7698	0.0002627	0.0765616	5	43.3	26.6	0.5	0.17993	140.5	135.5	0.001	2.18	1.63	229.00	1.197	0.006	3.30		
48.840	16.7698	0.0002627	0.0765616	5	43.3	26.6	0.5	0.18013	140.4	135.4	0.001	2.18	1.63	228.98	1.197	0.006	4.00		
49.050	9.5199	0.0149786	0.5821569	6	15.8	12.0	0.5	0.18223	74.8	69.9	0.159	1.81	1.11	83.14	0.133	0.006	4.00		
49.070	6.7153	0.1118233	0.5569196	5	16.6	39.4	0.5	0.18243	53.8	48.9	1.695	2.40	2.31	124.23	0.258	0.006	0.62		
49.090	8.2718	0.2434346	0.5363275	5	21.8	46.0	0.5	0.18263	63.2	60.2	2.993	2.49	2.71	176.75	0.594	0.006	1.20		
49.110	11.4769	0.3687543	1.2814645	5	31.0	37.6	0.5	0.18283	94.4	89.4	3.051	2.37	2.20	207.81	0.915	0.006	2.76		
49.130	13.2754	0.5926574	-0.0648352	5	34.7	47.1	0.5	0.18303	97.6	92.7	4.728	2.50	2.78	271.40	1.939	0.006	4.00		
49.150	13.3753	0.5982673	-0.058887	5	35.0	47.0	0.5	0.18323	98.4	93.4	4.732	2.50	2.77	272.56	1.963	0.006	4.00		
49.170	16.4279	0.6449917	-0.0614928	5	41.6	39.1	0.5	0.18343	120.8	115.9	4.111	2.39	2.29	276.17	2.039	0.006	4.00		
49.190	17.0368	0.6947306	-0.0617194	5	43.4	39.2	0.5	0.18363	125.3	120.3	4.262	2.40	2.29	287.22	2.284	0.006	4.00		
49.210	28.457	0.6947306	-0.0356608	5	64.8	21.3	0.5	0.18383	209.6	204.6	2.504	2.07	1.40	294.28	2.450	0.006	4.00		
49.230	43.5782	0.6947306	-0.0731343	6	89.1	12.0	0.5	0.18403	320.7	315.7	1.622	2.10	1.11	356.34	4.288	0.006	4.00		
49.250	26.833	0.6947306	0.21235	5	62.4	22.7	0.5	0.18423	199.3	194.3	2.635	1.81	1.46	290.67	2.364	0.006	4.00		
49.270	9.4261	0.3952467	0.1703729	5	25.3	53.8	0.5	0.18443	70.7	65.7	4.431	2.58	3.22	227.84	1.180	0.006	4.00		

CPT Verileri													O BÖLGESİ				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'_{v0} [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
52.130	5.5277	0.0919103	0.1665774	5	14.0	53.2	0.5	0.21303	39.0	34.0	1.853	2.58	3.18	124.20	0.258	0.019	2.68
52.150	8.0176	0.0732355	0.2661386	5	17.7	31.2	0.5	0.21323	56.7	51.7	0.970	2.27	1.85	105.06	0.188	0.019	1.49
52.170	11.1001	0.083511	0.3895775	5	22.9	22.0	0.5	0.21343	78.6	73.6	0.777	2.09	1.43	112.65	0.213	0.019	1.44
52.190	14.0624	0.083511	0.3895775	6	26.9	16.3	0.5	0.21363	98.9	93.8	0.609	1.94	1.23	121.77	0.248	0.018	1.22
52.210	16.598	0.0661684	0.4269377	6	29.0	11.6	0.5	0.21383	116.4	111.4	0.406	1.79	1.10	128.12	0.276	0.018	1.09
52.230	18.9959	0.066281	0.4852865	6	31.9	9.5	0.5	0.21403	133.2	128.1	0.354	1.71	1.04	139.10	0.330	0.018	1.07
52.250	19.7549	0.0730166	0.5218253	6	33.3	9.4	0.5	0.21423	136.5	133.5	0.374	1.71	1.04	144.27	0.359	0.018	1.14
52.270	20.1633	0.0813946	0.5216837	6	34.4	9.7	0.5	0.21443	141.3	136.2	0.408	1.72	1.05	148.11	0.382	0.018	1.09
52.290	19.7707	0.0695956	0.516387	6	33.0	9.2	0.5	0.21463	138.5	133.4	0.356	1.70	1.04	143.36	0.354	0.008	2.44
52.310	19.3789	0.0607273	0.4806696	6	31.8	8.9	0.5	0.21483	135.5	130.5	0.318	1.68	1.03	139.08	0.330	0.008	2.41
52.330	19.3736	0.0542286	0.4695663	6	31.2	8.4	0.5	0.21503	135.3	130.3	0.280	1.66	1.01	136.82	0.318	0.008	2.41
52.350	19.4183	0.0562306	0.4829639	6	31.5	8.6	0.5	0.21523	135.7	130.6	0.293	1.67	1.02	137.88	0.324	0.008	2.26
52.370	18.8118	0.0568435	0.4997887	6	31.0	9.0	0.5	0.21543	131.6	126.5	0.306	1.69	1.03	135.57	0.312	0.008	2.45
52.390	18.8434	0.0678445	0.5238647	6	31.9	9.8	0.5	0.21563	131.9	126.9	0.364	1.72	1.05	138.76	0.328	0.008	2.46

CPT Verileri															P Bölgesi		
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
																31	2.57
41.610	13.7092	0.0566246	0.4145315	6	20.0	7.6	0.5	0.11233	133.3	128.3	0.417	1.62	1.00	133.26	0.300	0.031	1.16
41.630	13.6661	0.048857	0.4118406	6	19.5	6.9	0.5	0.11253	134.6	129.6	0.355	1.58	1.00	134.60	0.307	0.031	1.19
41.650	13.6248	0.0486319	0.4077052	6	19.6	6.8	0.5	0.11293	135.0	130.0	0.352	1.58	1.00	134.99	0.309	0.031	1.20
41.670	13.704	0.0484067	0.3990662	6	19.4	7.0	0.5	0.11293	132.7	127.7	0.357	1.59	1.00	132.71	0.297	0.031	1.15
41.680	13.5059	0.0446793	0.3834027	6	18.9	6.9	0.5	0.11313	130.6	125.6	0.334	1.58	1.00	130.58	0.287	0.030	1.11
41.710	13.4516	0.0416836	0.3857253	6	18.6	6.7	0.5	0.11333	130.0	125.0	0.313	1.57	1.00	129.98	0.284	0.030	1.10
41.730	13.42	0.038938	0.3877363	6	18.3	6.5	0.5	0.11353	129.6	124.6	0.293	1.56	1.00	129.59	0.282	0.030	1.10
41.770	13.4235	0.0416773	0.4150097	6	18.6	6.7	0.5	0.11393	129.6	124.7	0.313	1.57	1.00	129.65	0.283	0.030	1.10
41.790	13.512	0.0390881	0.4124355	6	18.5	6.5	0.5	0.11413	130.3	125.4	0.292	1.56	1.00	130.34	0.286	0.030	1.11
41.810	13.1965	0.0387004	0.4052127	6	18.2	6.7	0.5	0.11433	127.2	122.2	0.296	1.57	1.00	127.21	0.271	0.030	1.05
41.830	12.9607	0.0394133	0.3965736	6	18.1	7.0	0.5	0.11453	124.8	119.8	0.307	1.59	1.00	124.81	0.261	0.030	1.01
41.860	12.8388	0.0413459	0.4015588	6	18.2	7.3	0.5	0.11473	123.6	118.6	0.325	1.60	1.00	123.61	0.266	0.030	0.99
41.870	12.8109	0.0420401	0.4066572	6	18.2	7.3	0.5	0.11493	123.3	118.3	0.331	1.61	1.00	123.29	0.254	0.029	0.99
41.890	12.7504	0.0424904	0.4171374	6	18.2	7.4	0.5	0.11513	122.7	117.7	0.336	1.61	1.00	122.72	0.252	0.029	0.98
41.910	12.8258	0.0426154	0.4202247	6	18.3	7.4	0.5	0.11533	123.3	118.4	0.335	1.61	1.00	123.34	0.255	0.029	0.99
41.930	12.867	0.0422339	0.4184989	6	18.3	7.3	0.5	0.11553	123.6	118.6	0.331	1.61	1.00	123.60	0.256	0.029	1.00
41.950	12.5295	0.0409769	0.413002	6	17.9	7.6	0.5	0.11573	120.3	115.3	0.330	1.62	1.00	120.31	0.242	0.029	0.94
41.970	12.1649	0.0440977	0.4031166	6	17.9	8.2	0.5	0.11593	118.7	111.8	0.366	1.65	1.00	117.26	0.230	0.029	0.90
41.990	10.6803	0.0483755	0.3968002	6	16.8	10.5	0.5	0.11613	102.8	97.8	0.459	1.75	1.07	110.18	0.204	0.028	0.80
42.010	9.8329	0.0546734	0.3893509	6	16.2	12.9	0.5	0.11633	93.4	86.4	0.573	1.84	1.14	106.06	0.191	0.028	0.75
42.050	7.7393	0.0644047	0.4250116	6	14.5	18.9	0.5	0.11673	75.6	70.6	0.844	2.01	1.32	99.57	0.172	0.027	0.67
42.070	8.1398	0.0706651	0.4104244	6	15.3	18.7	0.5	0.11693	79.1	74.1	0.882	2.01	1.31	103.53	0.183	0.027	0.72
42.090	6.9373	0.0850558	0.335534	6	16.4	19.3	0.5	0.11713	82.9	77.9	1.008	2.02	1.33	110.52	0.206	0.026	0.80
42.110	9.71	0.0833171	0.227787	6	17.5	16.7	0.5	0.11733	91.7	86.8	0.886	1.95	1.24	114.12	0.218	0.026	0.85
42.130	11.0116	0.0727477	0.2185531	6	18.5	13.0	0.5	0.11753	103.6	98.8	0.680	1.84	1.14	117.92	0.233	0.028	0.91
42.150	12.3306	0.0721411	0.218806	6	19.8	11.0	0.5	0.11773	115.7	110.7	0.601	1.77	1.09	125.53	0.264	0.026	1.03
42.170	12.5558	0.0602395	0.2200324	6	19.3	9.7	0.5	0.11793	117.7	112.7	0.492	1.72	1.05	123.41	0.255	0.025	1.00
42.190	11.8415	0.057544	0.2103106	6	18.5	10.3	0.5	0.11813	110.9	105.9	0.500	1.74	1.07	118.30	0.234	0.025	0.92
42.210	11.3481	0.0535163	0.2078747	6	17.7	10.6	0.5	0.11833	108.2	101.3	0.486	1.75	1.07	114.10	0.218	0.025	0.86
42.230	10.235	0.0536352	0.2185531	6	16.6	12.3	0.5	0.11853	96.0	91.0	0.541	1.82	1.12	107.51	0.196	0.025	0.77
42.250	9.625	0.0468182	0.2317807	6	15.6	12.5	0.5	0.11873	90.5	85.5	0.503	1.82	1.13	101.79	0.178	0.024	0.70
42.270	9.2931	0.0475374	0.2422042	6	15.3	13.3	0.5	0.11893	87.2	82.2	0.530	1.85	1.15	99.93	0.173	0.024	0.68
42.290	9.5558	0.0486946	0.2565931	6	15.7	12.9	0.5	0.11913	89.9	84.9	0.527	1.84	1.14	102.12	0.179	0.023	0.70
42.310	11.6014	0.0603333	0.4715774	6	18.7	10.7	0.5	0.11933	110.5	105.6	0.523	1.76	1.08	118.94	0.236	0.023	0.93
42.330	13.4489	0.0488508	0.3076342	6	19.5	7.8	0.5	0.11953	125.8	120.9	0.370	1.63	1.00	125.83	0.265	0.023	1.04
42.350	15.5112	0.0965946	0.06526	6	24.5	9.8	0.5	0.11973	142.4	137.4	0.643	1.71	1.05	149.05	0.388	0.023	1.53
42.370	19.1729	0.0912598	0.0097437	6	27.5	6.6	0.5	0.11993	175.2	170.2	0.490	1.57	1.00	175.16	0.580	0.023	2.28
42.390	20.7216	0.0873573	-0.0004249	6	28.5	5.7	0.5	0.12013	189.1	184.1	0.433	1.51	1.00	189.06	0.708	0.023	2.79
42.410	21.449	0.0685512	-0.0053534	6	27.4	4.5	0.5	0.12033	195.5	190.5	0.328	1.43	1.00	195.48	0.775	0.023	3.05
42.430	21.1563	0.0723412	-0.0039838	6	27.6	4.8	0.5	0.12053	192.7	187.7	0.351	1.45	1.00	192.67	0.745	0.023	2.93
42.450	21.0257	0.0740673	-0.002181	6	27.7	5.0	0.5	0.12073	191.3	186.4	0.362	1.46	1.00	191.34	0.731	0.023	2.88
42.470	21.1607	0.0771256	-0.0001133	6	28.1	5.1	0.5	0.12093	192.4	187.5	0.374	1.47	1.00	192.42	0.743	0.023	2.93

CPT Verileri													P Bölgesi												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
43.550	20.9521	0.050652	0.2878636	6	26.5	4.3	0.5	0.13173	185.1	180.1	0.245	1.41	1.00	185.06	0.689	0.022	2.78								
43.570	20.6445	0.0401826	0.26767037	6	25.1	3.9	0.5	0.13193	182.1	177.2	0.197	1.38	1.00	182.14	0.842	0.022	2.67								
43.590	20.137	0.042753	0.2694242	6	25.1	4.2	0.5	0.13213	177.5	172.6	0.216	1.41	1.00	177.53	0.600	0.022	2.50								
43.610	18.5121	0.0413334	0.2661102	6	23.8	4.8	0.5	0.13233	163.2	158.3	0.227	1.45	1.00	163.24	0.485	0.022	2.02								
43.630	18.0169	0.0431846	0.272455	6	23.6	5.1	0.5	0.13253	158.9	153.9	0.244	1.47	1.00	158.87	0.453	0.022	1.89								
43.650	16.5656	0.0445292	0.2699624	6	22.5	5.7	0.5	0.13273	149.6	144.7	0.267	1.52	1.00	149.64	0.302	0.022	1.63								
43.740	15.023	0.049765	0.3141205	6	21.9	7.4	0.5	0.13363	132.7	127.7	0.338	1.61	1.00	132.68	0.297	0.022	1.24								
43.760	15.1781	0.0403515	0.3052286	6	21.2	6.6	0.5	0.13383	133.8	128.9	0.271	1.57	1.00	133.84	0.303	0.022	1.27								
43.780	15.3122	0.0444166	0.2921973	6	21.6	6.8	0.5	0.13403	134.8	129.8	0.295	1.58	1.00	134.79	0.308	0.022	1.29								
43.800	15.4288	0.0461365	0.2889144	6	21.9	6.9	0.5	0.13423	135.5	130.6	0.305	1.58	1.00	135.49	0.311	0.022	1.31								
43.820	15.7399	0.0311267	0.3306055	6	20.8	5.5	0.5	0.13443	138.6	133.7	0.201	1.50	1.00	138.61	0.328	0.022	1.38								
43.840	16.1221	0.028525	0.3199554	6	20.8	5.1	0.5	0.13463	141.7	136.8	0.180	1.48	1.00	141.70	0.345	0.022	1.45								
43.860	16.3008	0.0258482	0.366948	6	20.7	4.9	0.5	0.13483	143.5	138.6	0.161	1.48	1.00	143.54	0.355	0.022	1.50								
43.900	16.605	0.0093686	0.4239069	6	19.6	3.9	0.5	0.13523	146.4	141.5	0.057	1.39	1.00	146.44	0.372	0.022	1.57								
43.920	16.5364	0.0100191	0.420593	6	19.6	4.0	0.5	0.13543	145.7	140.8	0.061	1.39	1.00	145.73	0.368	0.022	1.55								
43.940	15.9354	0.0088245	0.4146448	6	19.1	4.2	0.5	0.13563	140.4	135.5	0.056	1.40	1.00	140.39	0.337	0.022	1.43								
43.960	14.6917	0.0084818	0.4132569	6	18.0	4.5	0.5	0.13583	129.6	124.7	0.058	1.44	1.00	129.60	0.282	0.022	1.20								
44.000	13.8451	0.0122956	0.4068272	6	17.5	5.2	0.5	0.13623	122.1	117.2	0.068	1.46	1.00	126.42	0.268	0.021	1.14								
44.020	13.681	0.0145721	0.4150697	6	17.6	5.4	0.5	0.13643	120.5	115.6	0.108	1.50	1.00	120.51	0.243	0.021	1.03								
44.040	13.9757	0.0121079	0.4343021	6	17.6	5.1	0.5	0.13663	123.3	118.3	0.086	1.47	1.00	123.26	0.254	0.021	1.08								
44.060	14.3481	0.0130586	0.4281556	6	18.0	5.0	0.5	0.13683	126.3	121.4	0.092	1.47	1.00	126.32	0.267	0.021	1.14								
44.080	14.7259	0.0130586	0.4281556	6	18.4	4.8	0.5	0.13703	129.5	124.5	0.090	1.45	1.00	129.46	0.282	0.021	1.20								
44.100	14.6547	0.0146846	0.4130534	6	18.6	4.9	0.5	0.13723	130.3	125.4	0.100	1.46	1.00	130.34	0.286	0.021	1.22								
44.120	15.1255	0.0148848	0.433509	6	18.9	4.7	0.5	0.13743	132.7	127.8	0.099	1.45	1.00	132.72	0.297	0.021	1.27								
44.140	15.7653	0.0181807	0.4106227	6	19.7	4.7	0.5	0.13763	137.9	132.9	0.117	1.44	1.00	137.86	0.324	0.021	1.38								
44.160	14.2763	0.0204009	0.3969135	6	18.7	5.6	0.5	0.13803	124.9	120.0	0.145	1.51	1.00	124.69	0.261	0.021	1.12								
44.200	14.0028	0.0279621	0.4036285	6	19.3	6.5	0.5	0.13823	122.5	117.6	0.202	1.56	1.00	122.53	0.251	0.021	1.07								
44.220	13.3578	0.0104881	0.3512259	6	17.0	5.5	0.5	0.13843	116.5	111.6	0.080	1.50	1.00	116.52	0.227	0.020	0.97								
44.260	12.2973	0.0177616	0.3605163	6	16.8	6.8	0.5	0.13883	107.4	102.5	0.147	1.58	1.00	107.43	0.195	0.020	0.84								
44.280	11.8196	0.0230151	0.3663512	6	16.9	7.8	0.5	0.13903	103.3	98.4	0.198	1.63	1.00	103.35	0.183	0.020	0.78								
44.300	10.9905	0.0302949	0.3520473	6	16.8	9.7	0.5	0.13923	96.1	91.2	0.282	1.72	1.05	100.92	0.176	0.019	0.75								
44.320	8.9091	0.0312955	0.3333813	6	14.6	13.4	0.5	0.13943	77.4	72.5	0.366	1.86	1.15	88.99	0.146	0.019	0.63								
44.340	7.5505	0.0383664	0.3604314	6	13.7	17.6	0.5	0.13963	66.9	62.0	0.523	1.99	1.28	85.83	0.139	0.018	0.60								
44.360	6.5277	0.0326527	0.3804852	6	12.2	20.0	0.5	0.13983	58.4	53.5	0.516	2.04	1.36	79.24	0.126	0.018	0.54								
44.380	6.4401	0.0326589	0.3880266	6	12.0	20.5	0.5	0.14003	57.3	52.3	0.527	2.05	1.38	78.81	0.126	0.017	0.50								
44.400	7.8643	0.035073	0.4355201	6	14.0	18.2	0.5	0.14023	70.1	65.2	0.455	1.94	1.23	86.09	0.139	0.017	0.60								
44.420	9.363	0.0249286	0.3948458	6	14.6	11.3	0.5	0.14043	82.3	77.4	0.272	1.78	1.09	89.92	0.148	0.016	0.64								
44.440	12.3567	0.0222646	0.3371202	6	17.4	7.4	0.5	0.14063	107.3	102.4	0.185	1.61	1.00	107.29	0.195	0.016	0.84								
44.460	13.2526	0.0268551	0.4959082	6	18.8	7.0	0.5	0.14083	115.9	110.9	0.204	1.59	1.00	115.85	0.225	0.015	0.97								
44.480	14.7907	0.023628	0.3208901	6	19.6	5.8	0.5	0.14103	127.2	122.3	0.163	1.52	1.00	127.25	0.272	0.015	1.18								
44.500	15.605	0.0235342	0.3300957	6	20.3	5.3	0.5	0.14123	134.1	129.2	0.153	1.49	1.00	134.09	0.304	0.015	1.32								
44.520	16.4393	0.0203383	0.3767747	6	20.7	4.7	0.5	0.14143	141.4	136.5	0.125	1.45	1.00	141.40	0.343	0.015	1.49								

CPT Verileri														P Bölgesi			
Derinlik m	qc Koni Uç Direnci	fs Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
44.540	16.4744	0.0205948	0.3898607	6	20.7	4.7	0.5	0.14163	141.7	136.8	0.127	1.45	1.00	141.71	0.345	0.015	1.50
44.560	16.534	0.022496	0.4049011	6	21.0	4.4	0.5	0.14183	142.2	137.3	0.136	1.45	1.00	142.23	0.348	0.015	1.51
44.580	17.0537	0.0196441	0.4351802	6	21.2	4.4	0.5	0.14203	146.7	141.8	0.116	1.42	1.00	146.75	0.374	0.015	1.63
44.600	17.3605	0.0182495	0.4394855	6	21.3	4.2	0.5	0.14223	149.3	144.3	0.106	1.41	1.00	149.25	0.389	0.015	1.70
44.620	18.8898	0.0221777	0.4295436	6	21.3	4.8	0.5	0.14243	145.1	140.2	0.133	1.44	1.00	145.12	0.364	0.015	1.59
44.640	16.8013	0.0228712	0.4351518	6	21.3	4.7	0.5	0.14263	144.3	139.4	0.137	1.45	1.00	144.33	0.360	0.015	1.57
44.660	17.1817	0.0226961	0.4401653	6	21.6	4.6	0.5	0.14283	147.4	142.5	0.133	1.44	1.00	147.45	0.378	0.015	1.65
44.680	17.9336	0.022521	0.4142766	6	22.2	4.3	0.5	0.14303	153.4	148.5	0.127	1.41	1.00	153.42	0.416	0.015	1.82
44.700	18.3684	0.0223772	0.3935146	6	22.5	4.1	0.5	0.14323	156.8	151.8	0.123	1.40	1.00	156.77	0.438	0.015	1.92
44.720	19.2062	0.028994	0.3948476	6	23.9	4.2	0.5	0.14343	163.7	158.7	0.153	1.41	1.00	163.66	0.488	0.015	2.14
44.740	19.7242	0.0274618	0.4158344	6	24.1	3.9	0.5	0.14363	168.0	163.1	0.140	1.39	1.00	168.05	0.521	0.015	2.29
44.760	23.8031	0.0207136	0.4462268	7	26.3	2.7	0.5	0.14383	202.2	197.3	0.086	1.26	1.00	202.20	0.849	0.015	3.72
44.780	26.2572	0.0477125	0.3693538	7	31.0	3.1	0.5	0.14403	221.9	216.9	0.183	1.31	1.00	221.86	1.096	0.015	4.00
44.800	28.6788	0.0773632	0.1014023	6	35.9	3.5	0.5	0.14423	239.6	234.7	0.274	1.35	1.00	239.64	1.360	0.015	4.00
44.820	33.1372	0.1158385	-0.0491433	6	42.9	3.8	0.5	0.14443	275.3	270.4	0.356	1.36	1.00	275.32	2.021	0.015	4.00
44.840	38.5098	0.1514806	-0.0637871	6	50.3	3.4	0.5	0.14463	319.7	314.8	0.400	1.34	1.00	319.68	3.118	0.015	4.00
44.860	42.8157	0.1548953	-0.0461975	7	53.5	2.8	0.5	0.14483	355.4	350.5	0.367	1.28	1.00	355.39	4.254	0.015	4.00
44.900	38.1478	0.3571592	-0.0621726	6	84.5	7.2	0.5	0.14523	316.0	311.1	0.953	1.60	1.00	316.03	3.015	0.015	4.00
44.920	36.8331	0.3528814	-0.0345278	6	82.9	7.5	0.5	0.14543	305.1	300.2	0.975	1.62	1.00	305.14	2.722	0.015	4.00
44.940	35.1591	0.3176145	-0.0633353	6	59.2	7.4	0.5	0.14563	290.9	286.0	0.920	1.61	1.00	290.91	2.370	0.015	4.00
44.960	33.6245	0.322524	-0.055573	6	57.7	8.1	0.5	0.14583	278.0	273.0	0.976	1.65	1.00	278.14	2.081	0.015	4.00
44.980	33.1223	0.2843296	-0.0485768	6	54.2	7.1	0.5	0.14603	273.7	268.8	0.814	1.59	1.00	273.69	1.987	0.015	4.00
45.000	32.103	0.1669282	-0.0135675	6	46.9	5.2	0.5	0.14623	265.4	260.4	0.530	1.48	1.00	265.37	1.818	0.015	4.00
45.020	29.7121	0.1396103	0.119955	6	42.8	5.1	0.5	0.14643	246.5	241.6	0.478	1.48	1.00	246.53	1.473	0.015	4.00
45.040	28.2654	0.1670033	0.4122047	6	43.8	6.3	0.5	0.14663	237.0	232.1	0.594	1.55	1.00	236.99	1.318	0.015	4.00
45.060	29.3545	0.199706	0.0852572	6	46.7	6.9	0.5	0.14683	243.0	238.0	0.692	1.58	1.00	242.96	1.414	0.015	4.00
45.080	30.0618	0.2367365	-0.0473022	6	49.5	7.6	0.5	0.14703	247.5	242.6	0.605	1.62	1.00	247.53	1.490	0.015	4.00
45.100	29.9512	0.1806622	0.1372047	6	46.1	6.2	0.5	0.14723	247.8	242.9	0.613	1.54	1.00	247.81	1.495	0.015	4.00
45.120	27.081	0.2102504	-0.0355758	6	44.9	8.3	0.5	0.14743	222.7	217.8	0.795	1.65	1.01	224.05	1.126	0.015	4.00
45.140	27.1021	0.2017385	0.14151	6	44.6	7.9	0.5	0.14763	224.2	219.3	0.757	1.64	1.00	224.22	1.128	0.015	4.00
45.160	28.6227	0.2390505	0.1380544	6	48.3	8.3	0.5	0.14783	236.5	231.6	0.849	1.65	1.01	238.03	1.334	0.015	4.00
45.180	31.4737	0.2790455	-0.0658915	6	53.4	8.1	0.5	0.14803	258.6	253.7	0.904	1.65	1.00	258.68	1.690	0.015	4.00
45.200	36.6938	0.2462552	0.0086107	6	56.9	5.7	0.5	0.14823	301.5	296.5	0.682	1.51	1.00	301.46	2.628	0.015	4.00
45.220	41.0032	0.2274054	-0.0259737	6	59.4	4.4	0.5	0.14843	336.3	331.4	0.563	1.42	1.00	336.34	3.619	0.015	4.00
45.240	43.4932	0.2070295	-0.0294293	6	59.7	3.6	0.5	0.14863	356.5	351.6	0.483	1.36	1.00	356.51	4.294	0.015	4.00
45.260	39.9077	0.152081	0.0622576	6	51.9	3.2	0.5	0.14883	327.6	322.7	0.366	1.32	1.00	327.63	3.351	0.015	4.00
45.280	40.4143	0.1383032	0.0207903	7	50.8	2.9	0.5	0.14903	331.2	326.3	0.347	1.29	1.00	331.22	3.459	0.015	4.00
45.300	31.4492	0.3123548	0.4394005	6	55.7	8.7	0.5	0.14923	281.0	256.1	0.998	1.68	1.02	286.48	1.840	0.015	4.00
45.320	34.5746	0.3869662	0.3772279	6	82.7	9.0	0.5	0.14943	285.9	281.0	1.127	1.69	1.03	294.24	2.449	0.015	4.00
45.340	39.0049	0.3116293	-0.0368804	6	83.4	6.3	0.5	0.14963	318.6	313.6	0.812	1.55	1.00	318.57	3.087	0.015	4.00
45.360	34.7779	0.3745018	0.0365388	6	82.0	8.8	0.5	0.14983	284.4	279.5	1.095	1.68	1.02	291.24	2.378	0.015	4.00
45.380	32.6331	0.3739511	0.0813768	6	59.7	9.6	0.5	0.15003	268.7	263.8	1.156	1.71	1.05	281.43	2.153	0.015	4.00
45.400	31.656	0.3921947	0.2227168	6	59.2	10.5	0.5	0.15023	260.1	255.2	1.264	1.75	1.07	278.79	2.095	0.015	4.00
45.420	31.8462	0.3355138	0.2786864	6	57.1	9.2	0.5	0.15043	261.9	257.0	1.064	1.70	1.03	271.05	1.932	0.015	4.00

CPT Verileri										P Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N) ^{cs}	CRR	Oturma [mm]	FL Güvenlik Katsayısı		
45.440	32.9409	0.3142686	0.3776244	6	57.5	8.2	0.5	0.150683	271.5	266.5	0.961	1.85	1.01	272.84	1.969	0.015	4.00		
45.460	32.9436	0.282948	0.323666	6	55.9	7.6	0.5	0.15083	270.9	265.9	0.866	1.62	1.00	270.88	1.928	0.015	4.00		
45.480	32.9463	0.3031738	0.066985	6	56.4	8.2	0.5	0.15103	266.5	261.6	0.943	1.65	1.00	267.87	1.868	0.015	4.00		
45.500	31.0837	0.2304386	0.0371336	6	50.7	7.2	0.5	0.15123	253.1	248.1	0.755	1.80	1.00	253.07	1.587	0.015	4.00		
45.520	31.4369	0.1993557	0.1050279	6	49.2	6.3	0.5	0.15143	256.3	251.4	0.644	1.55	1.00	256.32	1.646	0.015	4.00		
45.540	32.6306	0.188311	0.0430252	6	49.5	5.7	0.5	0.15163	285.3	280.4	0.587	1.51	1.00	285.34	1.817	0.015	4.00		
45.560	26.2721	0.1009287	0.4005391	6	37.4	5.1	0.5	0.15183	216.5	211.5	0.387	1.48	1.00	216.46	1.023	0.015	4.00		
45.580	26.5578	0.1199036	0.3316535	6	38.2	5.7	0.5	0.15203	218.1	213.2	0.456	1.51	1.00	218.08	1.045	0.015	4.00		
45.600	27.2221	0.1051377	0.2384087	6	38.4	5.0	0.5	0.15223	222.6	217.6	0.392	1.47	1.00	222.57	1.105	0.015	4.00		
45.620	28.1136	0.1003846	0.3156501	6	38.8	4.6	0.5	0.15243	230.3	225.3	0.361	1.44	1.00	230.27	1.215	0.015	4.00		
45.640	26.9776	0.1198786	0.2675548	6	39.6	5.6	0.5	0.15263	220.5	215.6	0.450	1.51	1.00	220.53	1.077	0.015	4.00		
45.660	27.1091	0.2031457	0.3615077	6	45.4	8.1	0.5	0.15283	222.2	217.3	0.756	1.65	1.00	222.25	1.101	0.015	4.00		
45.680	26.828	0.1372025	0.1216544	6	39.7	6.7	0.5	0.15303	209.8	204.8	0.541	1.57	1.00	209.75	0.938	0.015	4.00		
45.700	26.6674	0.1253635	0.0772697	6	39.5	6.0	0.5	0.15323	215.2	210.3	0.482	1.53	1.00	215.25	1.007	0.015	4.00		
45.720	25.1651	0.123187	0.1064441	6	38.1	6.5	0.5	0.15343	204.0	199.1	0.500	1.56	1.00	204.02	0.870	0.015	3.97		
45.740	23.8031	0.1166703	0.1450223	6	36.4	6.9	0.5	0.15363	193.2	188.3	0.500	1.58	1.00	193.21	0.751	0.015	3.43		
45.760	20.9968	0.1173832	0.2356046	6	33.8	8.4	0.5	0.15383	171.2	166.3	0.569	1.86	1.01	172.92	0.561	0.015	2.57		
45.820	15.1678	0.0620661	0.3301806	6	24.2	9.5	0.5	0.15443	124.9	119.9	0.420	1.71	1.04	130.30	0.286	0.015	1.31		
45.840	13.6286	0.0638856	0.0421754	6	22.4	11.6	0.5	0.15463	109.9	105.0	0.489	1.79	1.10	120.99	0.245	0.015	1.12		
45.860	12.2394	0.0466056	0.0774396	6	19.7	11.5	0.5	0.15483	99.0	94.1	0.398	1.79	1.10	108.86	0.200	0.015	0.92		
45.880	10.5696	0.0402576	0.0937263	6	17.5	13.3	0.5	0.15503	85.6	80.7	0.401	1.85	1.15	98.15	0.168	0.015	0.77		
45.900	9.3012	0.0265987	0.1015439	6	15.6	12.5	0.5	0.15523	79.5	74.6	0.286	1.82	1.12	89.34	0.146	0.014	0.67		
45.920	10.193	0.0567997	0.1871127	6	18.2	16.2	0.5	0.15543	83.3	78.3	0.582	1.94	1.23	102.35	0.180	0.014	0.83		
45.940	10.7689	0.0672191	0.0481519	6	19.3	16.6	0.5	0.15563	86.9	81.9	0.658	1.95	1.24	107.65	0.197	0.013	0.91		
45.960	12.3805	0.0756966	0.0717533	6	21.7	14.6	0.5	0.15583	99.3	94.4	0.642	1.89	1.18	117.56	0.231	0.013	1.07		
45.980	13.3163	0.091066	0.0405892	6	23.6	14.6	0.5	0.15603	106.9	102.0	0.715	1.89	1.18	126.38	0.268	0.013	1.24		
46.000	13.7215	0.0790581	0.0484918	6	23.5	12.9	0.5	0.15623	110.2	105.2	0.601	1.84	1.14	125.22	0.263	0.013	1.21		
46.020	14.6845	0.071283	0.0428552	6	24.3	10.9	0.5	0.15643	119.4	114.4	0.498	1.77	1.08	129.17	0.280	0.013	1.30		
46.040	15.8618	0.044967	0.0686873	6	23.3	7.8	0.5	0.15663	127.3	122.4	0.294	1.63	1.00	127.29	0.272	0.013	1.26		
46.060	13.6567	0.0480315	0.4479263	6	26.5	6.1	0.5	0.15683	152.6	147.6	0.260	1.54	1.00	152.55	0.410	0.013	1.90		
46.080	19.5551	0.0679571	0.4296569	6	29.1	6.8	0.5	0.15703	159.5	154.6	0.351	1.58	1.00	159.48	0.457	0.013	2.12		
46.100	16.626	0.2091622	0.2385767	6	35.7	14.8	0.5	0.15723	150.4	145.5	1.146	1.90	1.19	178.92	0.613	0.013	2.84		
46.120	21.4201	0.2282684	0.3027907	6	40.2	12.9	0.5	0.15743	173.1	168.2	1.082	1.84	1.13	198.48	0.785	0.013	3.64		
46.140	22.4964	0.2127645	0.1637449	6	40.7	11.5	0.5	0.15763	180.5	175.6	0.965	1.79	1.10	198.48	0.807	0.013	3.75		
46.160	24.6323	0.1498044	-0.0017845	6	39.6	8.0	0.5	0.15783	196.1	191.1	0.623	1.64	1.00	196.06	0.781	0.013	3.63		
46.180	27.1301	0.1578347	0.1027902	6	42.8	7.0	0.5	0.15803	216.6	211.7	0.593	1.59	1.00	216.63	1.025	0.013	4.00		
46.200	28.2072	0.1458269	0.188359	6	43.1	6.2	0.5	0.15823	225.7	220.8	0.625	1.54	1.00	225.74	1.150	0.013	4.00		
46.220	29.2677	0.1382844	0.1845089	6	43.5	5.8	0.5	0.15843	234.0	229.1	0.480	1.51	1.00	233.99	1.271	0.013	4.00		
46.240	30.3068	0.1371524	0.3163865	6	44.5	5.2	0.5	0.15863	243.2	238.2	0.457	1.48	1.00	243.16	1.417	0.013	4.00		
46.260	30.6323	0.0937177	0.1146016	6	40.6	4.0	0.5	0.15883	244.0	239.0	0.311	1.39	1.00	243.97	1.430	0.013	4.00		
46.280	30.4001	0.0670127	0.3834593	6	37.6	3.2	0.5	0.15903	244.1	239.2	0.222	1.32	1.00	244.11	1.433	0.013	4.00		
46.300	31.032	0.0554238	0.5276035	7	36.7	2.8	0.5	0.15923	250.1	245.2	0.179	1.27	1.00	250.10	1.535	0.013	4.00		
46.320	35.6447	0.0590887	0.4570751	7	39.9	2.2	0.5	0.15943	285.9	281.0	0.167	1.21	1.00	285.92	2.264	0.013	4.00		
46.340	37.3689	0.0763501	0.3802331	7	43.2	2.4	0.5	0.15963	298.6	293.7	0.206	1.23	1.00	298.60	2.556	0.013	4.00		

CPT Verileri													P Bölgesi												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
46.360	38.8191	0.0851746	0.2433089	7	45.1	2.4	0.5	0.15983	309.0	304.0	0.222	1.23	1.00	308.98	2.823	0.013	4.00								
46.360	39.203	0.0931298	0.1062175	7	48.3	2.5	0.5	0.18003	310.7	305.8	0.241	1.24	1.00	310.74	2.870	0.013	4.00								
46.400	39.7508	0.1075643	0.0669505	7	48.4	2.7	0.5	0.18023	314.6	309.6	0.274	1.27	1.00	314.56	2.975	0.013	4.00								
46.420	40.4511	0.0854685	0.1089933	7	48.1	2.2	0.5	0.16043	320.2	315.3	0.214	1.21	1.00	320.23	3.134	0.013	4.00								
46.440	41.1443	0.0636736	0.1445124	7	48.2	2.1	0.5	0.16063	325.8	320.8	0.206	1.19	1.00	325.78	3.295	0.013	4.00								
46.460	41.189	0.1046688	0.173262	7	49.1	2.5	0.5	0.18083	326.2	321.2	0.258	1.24	1.00	326.15	3.307	0.013	4.00								
46.480	40.6106	0.0963132	0.1713076	7	47.7	2.4	0.5	0.16103	321.4	318.4	0.240	1.23	1.00	321.38	3.167	0.013	4.00								
46.520	37.8104	0.1164326	0.3579671	6	48.6	3.1	0.5	0.16143	300.4	295.5	0.310	1.31	1.00	300.41	2.801	0.013	4.00								
46.540	38.0049	0.1316801	0.2652038	6	50.3	3.4	0.5	0.16163	301.0	296.1	0.350	1.34	1.00	301.02	2.617	0.013	4.00								
46.560	36.4624	0.1386534	0.1190202	6	49.8	3.9	0.5	0.16183	287.6	282.6	0.386	1.38	1.00	287.56	2.291	0.013	4.00								
46.560	33.3037	0.1382219	0.0751453	6	47.3	4.6	0.5	0.16203	262.2	257.3	0.422	1.44	1.00	262.22	1.757	0.013	4.00								
46.600	31.5684	0.1327746	0.0182977	6	45.3	4.9	0.5	0.16223	248.0	243.1	0.429	1.46	1.00	247.99	1.498	0.013	4.00								
46.620	29.3747	0.116689	-0.0003399	6	42.0	5.1	0.5	0.16243	230.5	225.5	0.406	1.48	1.00	230.48	1.219	0.013	4.00								
46.640	26.1748	0.0907408	-0.003399	6	37.0	5.3	0.5	0.16263	205.2	200.3	0.355	1.49	1.00	205.22	0.884	0.013	4.00								
46.660	24.556	0.0791355	-0.0091205	6	34.0	5.2	0.5	0.16283	192.4	187.4	0.306	1.48	1.00	192.37	0.742	0.013	3.51								
46.680	23.18	0.0691328	-0.0071661	6	32.5	5.6	0.5	0.16303	181.5	176.6	0.307	1.51	1.00	181.49	0.636	0.013	3.01								
46.700	19.1458	0.0761687	-0.0010197	6	29.4	8.0	0.5	0.16323	149.8	144.9	0.411	1.64	1.00	149.58	0.391	0.013	1.85								
46.720	17.2027	0.062466	-0.012916	6	26.4	8.6	0.5	0.16343	134.5	129.5	0.377	1.67	1.02	136.52	0.317	0.013	1.50								
46.740	12.0738	0.0477376	0.5813921	6	20.6	11.8	0.5	0.16363	98.9	94.0	0.397	1.80	1.11	109.54	0.202	0.013	0.96								
46.760	11.7215	0.0367679	0.4554889	6	19.2	11.2	0.5	0.16383	95.1	90.2	0.318	1.78	1.09	103.64	0.184	0.012	0.87								
46.780	11.1562	0.0371869	0.4292037	6	18.6	12.0	0.5	0.16403	90.5	85.5	0.339	1.81	1.11	100.66	0.175	0.012	0.83								
46.800	10.6505	0.0371869	0.4292037	6	18.1	12.8	0.5	0.16423	86.5	81.5	0.356	1.84	1.13	98.05	0.168	0.012	0.80								
46.820	10.6459	0.0303074	0.411614	6	17.8	11.6	0.5	0.16443	87.8	82.9	0.285	1.79	1.10	96.63	0.164	0.011	0.78								
46.840	10.668	0.0361174	0.3667194	6	18.0	12.8	0.5	0.16463	86.0	81.1	0.347	1.83	1.13	97.41	0.166	0.011	0.79								
46.860	10.6338	0.0276619	0.3649067	6	17.3	11.6	0.5	0.16483	85.7	80.7	0.267	1.79	1.10	94.31	0.158	0.010	0.75								
46.880	10.4059	0.0222583	0.3505744	6	16.6	11.1	0.5	0.16503	83.7	78.8	0.220	1.77	1.09	91.09	0.150	0.010	0.71								
46.900	10.1412	0.0202758	0.3600065	6	16.1	11.2	0.5	0.16523	81.7	76.8	0.205	1.78	1.09	86.99	0.146	0.009	0.69								
46.920	10.1412	0.0204134	0.3839975	6	16.2	11.2	0.5	0.16543	81.8	76.9	0.206	1.78	1.09	86.15	0.146	0.009	0.69								
46.940	11.3613	0.0194377	0.4185619	6	17.4	9.4	0.5	0.16563	91.5	86.6	0.174	1.71	1.04	95.35	0.161	0.008	0.76								
46.960	12.1062	0.0205135	0.4458869	6	18.3	8.8	0.5	0.16583	97.5	92.5	0.172	1.68	1.02	99.62	0.172	0.008	0.82								
46.980	12.9511	0.0222959	0.4538178	6	19.3	8.2	0.5	0.16603	104.0	99.1	0.175	1.65	1.00	104.38	0.186	0.008	0.89								
47.000	14.4235	0.0263986	0.4605307	6	21.1	7.4	0.5	0.16623	115.4	110.5	0.185	1.61	1.00	115.44	0.223	0.007	1.06								
47.020	16.7303	0.0392695	0.4612955	6	24.5	7.0	0.5	0.16643	133.3	128.3	0.237	1.59	1.00	133.26	0.300	0.007	1.43								
47.040	18.6181	0.0294193	0.4701895	6	25.2	6.3	0.5	0.16663	147.9	142.9	0.159	1.49	1.00	147.87	0.381	0.007	1.82								
47.060	21.3535	0.0291566	0.4823124	6	27.4	4.3	0.5	0.16683	169.1	164.1	0.138	1.41	1.00	169.06	0.529	0.007	2.53								
47.080	27.0617	0.0368116	0.4826806	6	32.5	3.1	0.5	0.16703	213.1	208.2	0.137	1.31	1.00	213.13	0.980	0.007	4.00								
47.100	29.5946	0.0393445	0.4742682	7	34.6	2.8	0.5	0.16723	232.5	227.6	0.134	1.27	1.00	232.52	1.249	0.007	4.00								
47.120	31.7165	0.0416398	0.4608423	7	36.2	2.5	0.5	0.16743	248.7	243.7	0.132	1.24	1.00	248.68	1.510	0.007	4.00								
47.140	35.0198	0.0406204	0.4593694	7	38.1	2.1	0.5	0.16763	274.0	269.1	0.117	1.19	1.00	274.03	1.994	0.007	4.00								
47.160	38.1609	0.0527096	0.2982587	7	41.4	2.0	0.5	0.16783	298.9	291.9	0.139	1.18	1.00	296.87	2.513	0.007	4.00								
47.180	40.1583	0.0659182	0.082708	7	44.3	2.0	0.5	0.16803	310.4	305.5	0.166	1.18	1.00	310.44	2.862	0.007	4.00								
47.200	41.1967	0.170343	0.0396262	6	57.2	3.8	0.5	0.16823	317.9	313.0	0.420	1.38	1.00	317.94	3.069	0.007	4.00								
47.220	42.6667	0.1846211	-0.0087806	6	59.7	3.8	0.5	0.16843	328.7	323.8	0.439	1.38	1.00	328.69	3.383	0.007	4.00								
47.230	47.9148	0.1016854	0.3635754	7	53.6	1.8	0.5	0.16863	371.9	367.0	0.213	1.16	1.00	371.89	4.863	0.007	4.00								

CPT Verileri													P Bölgesi												
Derinlik m	qc Kontı Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
47.310	63.6591	0.1897807	0.4483511	7	73.9	1.7	0.5	0.18933	492.7	487.7	0.299	1.13	1.00	492.65	11.200	0.007	4.00								
47.330	66.3997	0.2523092	0.4068555	7	83.4	2.1	0.5	0.18953	513.1	508.2	0.381	1.19	1.00	513.09	12.642	0.007	4.00								
47.510	55.815	0.0981394	0.3786158	7	57.1	1.3	0.5	0.17133	429.3	424.4	0.177	1.07	1.00	429.31	7.439	0.007	4.00								
47.530	58.4995	0.1286218	0.1396689	7	83.0	1.5	0.5	0.17153	447.7	442.8	0.222	1.10	1.00	447.73	8.427	0.007	4.00								
47.550	58.6117	0.1282779	0.0107917	7	82.9	1.5	0.5	0.17173	447.3	442.4	0.221	1.10	1.00	447.34	8.405	0.007	4.00								
47.570	56.2129	0.1761655	-0.0226314	7	88.4	2.2	0.5	0.17193	428.5	423.6	0.317	1.20	1.00	428.53	7.399	0.007	4.00								
47.590	57.1481	0.2210512	-0.0359157	7	74.3	2.6	0.5	0.17213	435.3	430.4	0.391	1.25	1.00	435.31	7.752	0.007	4.00								
47.610	58.73	0.2326626	-0.0383516	7	76.7	2.6	0.5	0.17233	447.1	442.2	0.401	1.25	1.00	447.09	8.391	0.007	4.00								
47.630	55.7572	0.2316081	-0.0138791	7	74.6	2.8	0.5	0.17253	424.4	419.4	0.420	1.28	1.00	424.39	7.188	0.007	4.00								
47.650	53.091	0.2149472	-0.0224898	7	71.0	2.9	0.5	0.17273	403.8	398.8	0.410	1.29	1.00	403.79	6.203	0.007	4.00								
47.670	46.7947	0.2121454	-0.0282963	6	66.1	3.7	0.5	0.17293	355.6	350.7	0.460	1.37	1.00	355.63	4.263	0.007	4.00								
47.690	43.4274	0.1291847	-0.0266252	7	55.1	2.9	0.5	0.17313	329.8	324.9	0.302	1.29	1.00	329.85	3.417	0.007	4.00								
47.710	40.2486	0.1167203	-0.0335081	7	51.5	3.1	0.5	0.17333	305.5	300.5	0.295	1.31	1.00	305.46	2.731	0.007	4.00								
47.730	33.1398	0.1004721	0.2651472	6	44.8	4.0	0.5	0.17353	253.6	248.6	0.307	1.39	1.00	253.58	1.597	0.007	4.00								
47.750	34.025	0.100591	0.1453905	6	45.4	3.8	0.5	0.17373	259.2	254.3	0.300	1.37	1.00	259.25	1.700	0.007	4.00								
47.770	34.9216	0.1118609	0.0373886	6	47.2	3.9	0.5	0.17393	265.1	260.1	0.326	1.39	1.00	265.08	1.812	0.007	4.00								
47.790	36.5518	0.1230619	-0.019714	6	49.6	3.9	0.5	0.17413	276.8	271.9	0.343	1.38	1.00	276.85	2.053	0.007	4.00								
47.810	36.5921	0.1077832	-0.0203938	6	48.1	3.5	0.5	0.17433	277.0	272.0	0.300	1.35	1.00	276.99	2.056	0.007	4.00								
47.830	35.3011	0.1421432	-0.0032857	6	50.5	4.6	0.5	0.17453	267.2	262.2	0.410	1.44	1.00	267.19	1.854	0.007	4.00								
47.850	32.0127	0.1282716	0.2067417	6	46.7	5.0	0.5	0.17473	243.7	238.8	0.406	1.47	1.00	243.74	1.427	0.007	4.00								
47.870	31.4866	0.0736672	0.3646901	6	40.9	3.6	0.5	0.17493	240.8	235.9	0.237	1.36	1.00	240.84	1.379	0.007	4.00								
47.890	30.6481	0.0822539	0.2626546	6	41.1	4.1	0.5	0.17513	233.6	228.6	0.272	1.40	1.00	233.58	1.265	0.007	4.00								
47.910	28.8427	0.0851558	0.2171369	6	40.0	4.6	0.5	0.17533	219.5	214.5	0.300	1.44	1.00	219.46	1.063	0.007	4.00								
47.930	27.7743	0.0977266	0.2107922	6	40.3	5.4	0.5	0.17553	211.2	206.3	0.358	1.49	1.00	211.23	0.956	0.007	4.00								
47.970	24.4736	0.0953062	0.2486339	6	37.8	5.5	0.5	0.17573	207.9	203.0	0.357	1.50	1.00	207.90	0.916	0.007	4.00								
47.990	21.7041	0.0543044	0.3974234	6	31.1	6.8	0.5	0.17613	166.5	161.6	0.396	1.56	1.00	166.39	0.682	0.007	3.32								
48.010	22.0967	0.062547	0.3604597	6	31.2	5.5	0.5	0.17633	169.1	164.2	0.241	1.50	1.00	169.12	0.530	0.007	2.58								
48.030	20.9609	0.0403139	0.3134691	6	28.9	5.4	0.5	0.17653	160.1	155.2	0.196	1.49	1.00	160.12	0.462	0.007	2.25								
48.050	20.1151	0.1153006	0.2930753	6	34.3	10.0	0.5	0.17673	153.5	148.6	0.584	1.73	1.06	162.46	0.479	0.007	2.33								
48.070	20.7391	0.0937177	0.3490166	6	33.5	8.4	0.5	0.17693	158.5	153.6	0.459	1.66	1.01	160.28	0.463	0.007	2.26								
48.090	21.6979	0.102167	0.3790973	6	35.2	8.3	0.5	0.17713	165.9	160.9	0.477	1.65	1.01	166.79	0.512	0.007	2.50								
48.110	22.5498	0.0972075	0.3660113	6	35.7	7.6	0.5	0.17733	172.1	167.1	0.437	1.62	1.00	172.09	0.554	0.007	2.70								
48.130	23.0731	0.0779636	0.3187091	6	34.6	6.4	0.5	0.17753	175.6	170.6	0.343	1.56	1.00	175.56	0.583	0.007	2.85								
48.150	23.1967	0.0558741	0.3345993	6	32.6	5.3	0.5	0.17773	176.5	171.6	0.244	1.49	1.00	176.51	0.591	0.007	2.89								
48.170	23.7523	0.0522228	0.3319084	6	32.7	5.0	0.5	0.17793	180.6	175.6	0.223	1.47	1.00	180.55	0.627	0.007	3.07								
48.190	24.244	0.0296007	0.3470905	6	30.5	3.8	0.5	0.17813	184.3	179.3	0.124	1.38	1.00	184.25	0.662	0.007	3.23								
48.210	24.3439	0.029019	0.3804569	6	30.6	3.8	0.5	0.17833	185.1	180.2	0.121	1.37	1.00	185.15	0.670	0.007	3.28								
48.230	25.1643	0.0266112	0.42487	6	31.0	3.5	0.5	0.17853	191.5	186.6	0.107	1.35	1.00	191.51	0.733	0.007	3.59								
48.250	25.8266	0.0259483	0.4231988	6	31.4	3.3	0.5	0.17873	198.4	191.4	0.101	1.33	1.00	196.36	0.784	0.007	3.84								
48.270	26.5368	0.0428719	0.4180437	6	33.9	3.8	0.5	0.17893	201.5	196.6	0.163	1.37	1.00	201.51	0.841	0.007	4.00								
48.290	26.9934	0.0379624	0.4289771	6	33.7	3.2	0.5	0.17913	204.9	199.9	0.142	1.35	1.00	204.89	0.880	0.007	4.00								
48.310	29.7647	0.04573	0.3624424	6	36.6	3.5	0.5	0.17933	225.0	220.0	0.155	1.32	1.00	224.97	1.139	0.007	4.00								
48.330	32.4071	0.0506895	0.321485	7	39.1	2.9	0.5	0.17953	244.3	239.3	0.158	1.29	1.00	244.26	1.435	0.007	4.00								

CPT Verileri													P Bölgesi				
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı
48.350	36.2786	0.0622065	0.2773835	7	43.1	2.6	0.5	0.17973	272.7	267.7	0.173	1.28	1.00	272.66	1.985	0.007	4.00
48.370	40.7306	0.0688139	0.2257193	7	46.7	2.2	0.5	0.17993	305.3	300.4	0.171	1.21	1.00	305.33	2.727	0.007	4.00
48.390	43.707	0.1370649	0.2546671	7	57.3	3.1	0.5	0.18013	327.6	322.6	0.317	1.31	1.00	327.55	3.348	0.007	4.00
48.410	46.5677	0.1592982	0.0377588	7	81.6	3.1	0.5	0.18033	347.1	342.1	0.347	1.31	1.00	347.06	3.968	0.007	4.00
48.430	47.7176	0.1382844	0.1815611	7	80.1	2.8	0.5	0.18053	356.5	351.5	0.293	1.32	1.00	356.49	4.293	0.007	4.00
48.450	46.2881	0.164683	0.044753	6	82.1	3.2	0.5	0.18073	344.6	339.7	0.361	1.32	1.00	344.65	3.887	0.007	4.00
48.470	46.5055	0.1678476	0.113327	6	82.7	3.2	0.5	0.18093	348.6	341.6	0.365	1.32	1.00	348.58	3.952	0.007	4.00
48.490	43.4362	0.1009787	0.3689004	7	52.9	2.5	0.5	0.18113	325.5	320.5	0.234	1.24	1.00	325.48	3.287	0.007	4.00
48.510	45.2434	0.1157134	-0.029401	7	55.7	2.8	0.5	0.18133	335.8	330.8	0.260	1.25	1.00	335.77	3.600	0.007	4.00
48.530	43.36	0.1263203	-0.0429402	7	55.8	3.0	0.5	0.18153	321.5	316.6	0.296	1.30	1.00	321.50	3.171	0.007	4.00
48.550	41.0944	0.1280902	-0.0416089	6	54.4	3.4	0.5	0.18173	304.5	299.6	0.317	1.33	1.00	304.53	2.706	0.007	4.00
48.570	40.0707	0.1325244	-0.0271634	6	54.2	3.8	0.5	0.18193	296.9	291.9	0.337	1.36	1.00	296.88	2.513	0.007	4.00
48.590	36.0044	0.2274742	-0.0193457	6	59.2	6.4	0.5	0.18213	271.1	266.1	0.633	1.56	1.00	271.09	1.933	0.007	4.00
48.610	35.4659	0.2108007	-0.0209036	6	56.9	6.4	0.5	0.18233	262.5	257.5	0.606	1.56	1.00	262.50	1.762	0.007	4.00
48.630	34.2362	0.1755964	-0.0256621	6	53.1	5.9	0.5	0.18253	253.2	248.3	0.524	1.53	1.00	253.22	1.590	0.007	4.00
48.650	32.0597	0.1349322	-0.0519191	6	47.9	5.5	0.5	0.18273	237.0	232.1	0.430	1.50	1.00	237.01	1.318	0.007	4.00
48.670	31.1529	0.1136495	-0.0505312	6	45.2	6.2	0.5	0.18293	230.0	225.0	0.373	1.48	1.00	229.96	1.211	0.007	4.00
48.690	29.9312	0.1327433	-0.0506728	6	45.7	5.2	0.5	0.18313	220.8	215.9	0.454	1.54	1.00	220.80	1.081	0.007	4.00
48.710	28.8216	0.1072203	-0.0486335	6	42.5	5.7	0.5	0.18333	212.5	207.6	0.382	1.51	1.00	212.50	0.972	0.007	4.00
48.730	29.039	0.0801028	-0.0415623	6	41.2	5.1	0.5	0.18353	214.0	209.1	0.318	1.47	1.00	214.05	0.992	0.007	4.00
48.750	30.0628	0.0630351	0.357344	6	39.4	3.8	0.5	0.18373	224.6	219.6	0.212	1.37	1.00	224.57	1.133	0.007	4.00
48.770	31.5833	0.0913849	0.1977062	6	43.6	4.4	0.5	0.18393	234.3	229.4	0.294	1.42	1.00	234.34	1.277	0.007	4.00
48.790	32.4939	0.1133618	0.0911488	6	46.5	4.8	0.5	0.18413	240.1	235.2	0.355	1.45	1.00	240.14	1.368	0.007	4.00
48.810	34.4492	0.1298476	0.1727238	6	49.6	4.7	0.5	0.18433	255.0	250.1	0.382	1.45	1.00	255.01	1.622	0.007	4.00
48.830	35.103	0.1667594	0.1495259	6	53.6	5.5	0.5	0.18453	259.5	254.6	0.482	1.50	1.00	259.51	1.705	0.007	4.00
48.850	34.5746	0.1930954	0.2198277	6	55.2	6.3	0.5	0.18473	256.0	251.0	0.566	1.55	1.00	256.00	1.640	0.007	4.00
48.870	36.4738	0.1811688	0.0652884	6	56.0	5.5	0.5	0.18493	268.7	263.7	0.505	1.50	1.00	268.69	1.884	0.007	4.00
48.890	36.8743	0.2248599	-0.0222065	6	59.6	6.4	0.5	0.18513	270.8	265.9	0.622	1.55	1.00	270.85	1.928	0.007	4.00
48.910	35.8638	0.2209386	-0.0216684	6	58.3	6.6	0.5	0.18533	263.3	258.3	0.628	1.57	1.00	263.28	1.777	0.007	4.00
48.930	33.3687	0.1827567	-0.0374452	6	51.6	6.0	0.5	0.18553	244.9	239.9	0.498	1.53	1.00	244.85	1.445	0.007	4.00
48.950	32.3081	0.128966	-0.0323751	6	47.9	5.4	0.5	0.18573	236.8	231.9	0.410	1.49	1.00	236.83	1.315	0.007	4.00
48.970	31.2502	0.1010413	-0.0463392	6	44.3	4.9	0.5	0.18593	228.8	223.9	0.331	1.46	1.00	228.84	1.195	0.007	4.00
48.990	29.4562	0.0978016	-0.0447613	6	42.5	5.3	0.5	0.18613	215.6	210.6	0.340	1.49	1.00	215.58	1.012	0.007	4.00
49.010	25.4701	0.0969698	0.2871838	6	39.1	6.8	0.5	0.18633	188.7	183.7	0.387	1.57	1.00	188.69	0.705	0.007	3.50
49.030	24.6156	0.0959692	0.0503613	6	38.0	7.0	0.5	0.18653	180.6	175.6	0.400	1.59	1.00	180.60	0.628	0.007	3.12
49.050	24.1555	0.0989962	0.0574141	6	37.8	7.4	0.5	0.18673	177.2	172.2	0.421	1.61	1.00	177.19	0.597	0.007	2.97
49.070	22.4757	0.0894962	0.0936697	6	35.4	7.8	0.5	0.18693	165.1	160.1	0.409	1.63	1.00	165.10	0.499	0.007	2.48
49.090	21.7672	0.0882707	0.1457021	6	35.4	8.6	0.5	0.18713	160.2	155.2	0.463	1.67	1.02	162.89	0.482	0.007	2.40
49.110	24.5805	0.0677826	0.1655293	6	37.4	6.6	0.5	0.18733	180.8	175.8	0.365	1.67	1.00	180.80	0.630	0.007	3.13
49.130	27.9259	0.0630288	0.2280985	6	38.0	4.5	0.5	0.18753	205.6	200.6	0.229	1.43	1.00	205.59	0.888	0.007	4.00
49.150	29.0039	0.0852062	0.289903	6	42.3	5.3	0.5	0.18773	213.8	208.8	0.333	1.49	1.00	213.80	0.989	0.007	4.00
49.170	30.6341	0.0992961	0.2846912	6	43.5	4.7	0.5	0.18793	225.6	220.6	0.307	1.45	1.00	225.54	1.147	0.007	4.00
49.190	31.5079	0.0771256	0.288515	6	42.5	4.0	0.5	0.18813	231.8	226.9	0.248	1.39	1.00	231.82	1.239	0.007	4.00
49.210	30.7752	0.0717783	0.2288068	6	41.3	4.1	0.5	0.18833	225.9	221.0	0.237	1.40	1.00	225.92	1.152	0.007	4.00

CPT Verileri													P Bölgesi												
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı								
49.230	27.8847	0.0604027	0.2216122	6	39.9	5.1	0.5	0.18853	204.7	199.7	0.293	1.48	1.00	204.70	0.878	0.007	4.00								
49.250	28.1748	0.0573001	0.1976212	6	37.6	4.2	0.5	0.18873	206.5	201.6	0.207	1.41	1.00	206.53	0.899	0.007	4.00								
49.270	28.6525	0.0458113	0.246562	6	36.7	3.7	0.5	0.18893	210.2	205.3	0.162	1.37	1.00	210.25	0.944	0.007	4.00								
49.290	30.5092	0.0609865	0.2699341	6	40.0	3.8	0.5	0.18913	224.4	219.5	0.202	1.37	1.00	224.41	1.131	0.007	4.00								
49.310	31.103	0.0690328	0.2389186	6	41.3	3.9	0.5	0.18933	227.8	222.8	0.225	1.38	1.00	227.78	1.179	0.007	4.00								
49.330	31.6753	0.0604718	0.0843509	6	44.1	4.5	0.5	0.18953	230.7	225.7	0.201	1.43	1.00	230.69	1.222	0.007	4.00								
49.350	30.5465	0.0838655	0.0642403	6	42.4	4.6	0.5	0.18973	222.2	217.3	0.280	1.44	1.00	222.23	1.101	0.007	4.00								
49.370	28.4781	0.0825473	0.0540718	6	38.4	4.4	0.5	0.18993	207.0	202.1	0.225	1.42	1.00	207.03	0.905	0.007	4.00								
49.390	28.2362	0.0465555	0.0561395	6	38.4	3.9	0.5	0.19013	205.2	200.2	0.169	1.38	1.00	205.18	0.883	0.007	4.00								
49.410	27.3238	0.0500578	0.091517	6	36.1	4.2	0.5	0.19033	198.7	193.8	0.187	1.41	1.00	198.72	0.810	0.007	4.00								
49.430	26.0731	0.051046	0.1452206	6	35.3	4.6	0.5	0.19053	189.9	185.0	0.200	1.44	1.00	189.94	0.717	0.007	3.59								
49.450	25.4973	0.0551362	0.1876792	6	35.3	5.0	0.5	0.19073	186.0	181.0	0.221	1.47	1.00	185.98	0.678	0.007	3.40								
49.470	24.7804	0.0607523	0.2333952	6	35.4	5.5	0.5	0.19093	181.0	176.1	0.250	1.50	1.00	181.03	0.632	0.007	3.16								
49.490	23.7286	0.0671947	0.2379272	6	36.9	7.1	0.5	0.19113	173.4	168.4	0.375	1.60	1.00	173.36	0.565	0.007	2.83								
49.510	22.7374	0.0770818	0.2248412	6	35.0	7.1	0.5	0.19133	166.0	161.0	0.346	1.60	1.00	166.01	0.505	0.007	2.53								
49.530	20.7374	0.0512774	0.4554608	6	31.0	6.8	0.5	0.19153	153.1	148.2	0.250	1.57	1.00	153.13	0.414	0.007	2.08								
49.550	20.8741	0.0345789	0.4299118	6	29.3	6.8	0.5	0.19173	153.9	148.9	0.168	1.51	1.00	153.86	0.419	0.007	2.10								
49.570	20.9524	0.0273617	0.4105094	6	28.6	5.1	0.5	0.19193	154.5	149.5	0.132	1.48	1.00	154.49	0.423	0.007	2.12								
49.590	20.9714	0.0471121	0.3812217	6	30.7	6.3	0.5	0.19213	154.0	149.1	0.228	1.55	1.00	154.05	0.420	0.007	2.11								
49.610	21.5674	0.0743425	0.4539877	6	33.9	7.5	0.5	0.19233	158.8	153.8	0.348	1.62	1.00	158.79	0.452	0.007	2.27								
49.630	24.5998	0.0993689	0.4043063	6	39.0	7.2	0.5	0.19253	180.2	175.2	0.409	1.60	1.00	180.20	0.624	0.007	3.13								
49.650	27.9695	0.197148	0.4348969	6	49.3	9.1	0.5	0.19273	204.8	199.9	0.711	1.69	1.03	211.72	0.963	0.007	4.00								
49.670	29.2318	0.1700803	0.3151402	6	48.9	7.8	0.5	0.19293	212.7	207.8	0.589	1.63	1.00	212.72	0.975	0.007	4.00								
49.690	24.811	0.1414615	0.3265551	6	42.2	8.9	0.5	0.19313	180.9	175.9	0.579	1.68	1.03	185.75	0.676	0.007	3.40								
49.710	24.2221	0.2179554	0.3400376	6	45.7	12.2	0.5	0.19333	176.7	171.7	0.913	1.81	1.12	197.43	0.796	0.007	4.00								
49.730	20.6418	0.1946214	0.3668044	6	40.0	14.2	0.5	0.19353	151.0	146.1	0.958	1.88	1.17	177.06	0.596	0.007	3.00								
49.750	19.6877	0.1806373	0.3694386	6	38.4	14.3	0.5	0.19373	145.6	140.6	0.924	1.88	1.18	171.10	0.546	0.007	2.75								
49.770	18.9293	0.1464148	0.0678659	6	35.2	13.9	0.5	0.19393	138.4	131.4	0.800	1.87	1.16	158.48	0.450	0.007	2.27								
49.790	18.3824	0.1416429	0.1244869	6	34.3	14.1	0.5	0.19413	132.8	127.9	0.795	1.88	1.17	155.26	0.428	0.007	2.16								
49.810	15.6128	0.1150379	0.4548941	6	29.9	15.3	0.5	0.19433	116.0	111.0	0.748	1.91	1.20	138.69	0.328	0.007	1.65								
49.830	15.7706	0.096744	0.401927	6	29.0	13.8	0.5	0.19453	116.0	111.0	0.619	1.87	1.16	134.41	0.306	0.007	1.54								
49.850	15.3657	0.0524969	0.4091498	6	25.7	10.6	0.5	0.19473	113.0	108.1	0.348	1.75	1.07	121.52	0.247	0.007	1.24								
49.870	15.4253	0.0532412	0.4686882	6	25.9	10.6	0.5	0.19493	113.8	108.9	0.350	1.75	1.07	122.26	0.250	0.007	1.26								
49.890	15.683	0.0457487	0.4197432	6	25.6	9.7	0.5	0.19513	110.3	105.3	0.297	1.72	1.05	121.06	0.245	0.007	1.24								
49.910	16.3462	0.0459927	0.4406468	6	26.3	9.2	0.5	0.19533	120.1	115.2	0.286	1.69	1.03	124.25	0.258	0.007	1.30								
49.930	16.7136	0.046124	0.4510137	6	26.7	8.9	0.5	0.19553	122.8	117.8	0.280	1.68	1.03	125.94	0.266	0.007	1.34								
49.950	16.7382	0.0446605	0.4144748	6	26.6	8.8	0.5	0.19573	122.6	117.6	0.271	1.68	1.04	125.36	0.263	0.007	1.33								
49.970	18.1536	0.0437412	0.3561827	6	25.8	9.2	0.5	0.19593	117.9	113.0	0.277	1.70	1.04	122.21	0.250	0.007	1.26								
49.990	15.2561	0.0471059	0.349666	6	25.2	10.3	0.5	0.19613	111.4	106.5	0.316	1.74	1.07	118.99	0.237	0.007	1.20								
50.010	15.051	0.0479439	0.383346	6	25.1	10.6	0.5	0.19633	110.2	105.2	0.325	1.75	1.07	118.39	0.234	0.007	1.18								
50.030	14.4875	0.047994	0.4048444	6	24.5	11.2	0.5	0.19653	106.2	101.3	0.338	1.78	1.09	115.81	0.224	0.007	1.13								
50.050	14.3446	0.0356233	0.4318095	6	23.3	10.0	0.5	0.19673	105.3	100.4	0.252	1.73	1.06	111.53	0.209	0.007	1.06								
50.070	13.7224	0.0327659	0.3818731	6	22.3	10.4	0.5	0.19693	100.5	95.5	0.244	1.75	1.07	107.45	0.195	0.006	0.99								
50.090	12.3429	0.035123	0.4649777	6	21.1	12.2	0.5	0.19713	91.2	86.3	0.290	1.81	1.12	101.95	0.179	0.006	0.90								

CPT Verileri										P Bölgesi									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [mm]	FL Güvenlik Katsayısı		
50.990	16.2895	0.0723474	0.1375163	6	28.4	12.3	0.5	0.20613	114.4	109.4	0.460	1.82	1.12	128.06	0.275	0.001	1.48		
51.010	16.839	0.0869208	0.0447813	6	30.0	13.1	0.5	0.20633	117.5	112.6	0.550	1.85	1.14	134.16	0.305	0.001	1.84		
51.030	17.2351	0.1121861	-0.0216117	6	31.8	14.4	0.5	0.20653	119.8	114.8	0.680	1.89	1.18	141.09	0.341	0.001	1.84		
51.050	17.3762	0.1166703	-0.0248891	6	32.2	14.6	0.5	0.20673	120.7	115.7	0.701	1.89	1.18	142.69	0.350	0.001	1.89		
51.070	16.9775	0.1134494	-0.0386915	6	31.5	14.9	0.5	0.20693	117.8	112.8	0.699	1.90	1.19	140.18	0.336	0.001	1.82		
51.090	16.8868	0.113662	-0.0412974	6	31.4	15.0	0.5	0.20713	117.1	112.1	0.705	1.91	1.19	139.83	0.334	0.001	1.81		
51.110	16.8828	0.1048187	-0.0455461	6	30.9	14.4	0.5	0.20733	116.9	111.9	0.650	1.89	1.18	137.64	0.322	0.001	1.75		
51.130	16.0975	0.1030238	-0.0473022	6	29.8	15.3	0.5	0.20753	111.4	106.4	0.672	1.91	1.20	133.91	0.303	0.001	1.65		
51.150	15.4043	0.0998718	-0.0502763	6	28.8	16.0	0.5	0.20773	108.5	101.5	0.683	1.93	1.22	130.33	0.286	0.001	1.55		
51.170	14.8249	0.0949623	-0.051296	6	27.8	16.4	0.5	0.20793	102.5	97.5	0.676	1.95	1.24	126.72	0.269	0.001	1.46		
51.190	12.6119	0.084568	-0.0647233	6	24.3	19.3	0.5	0.20813	87.0	82.1	0.714	2.02	1.33	115.94	0.225	0.001	1.23		
51.210	9.0527	0.0526595	0.1807963	5	18.1	23.3	0.5	0.20833	64.0	59.0	0.619	2.12	1.48	94.97	0.160	0.001	0.87		
51.230	6.9151	0.0529347	0.2203376	5	15.1	32.1	0.5	0.20853	49.4	44.4	0.825	2.28	1.90	93.92	0.157	0.001	0.86		
51.250	6.2683	0.0667375	0.2525427	5	14.6	39.3	0.5	0.20873	45.1	40.1	1.151	2.40	2.30	103.84	0.184	0.000	1.01		
51.270	5.618	0.1233496	0.4701611	5	15.3	55.1	0.5	0.20893	42.1	37.1	2.298	2.60	3.31	139.42	0.332	0.000	1.82		

CPT Verileri		Pa(MPa) 0.1										Q BÖLGESİ									
Derinlik m	qc Koni Uç Direnci	fs Sürünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	c'v0 [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı				
41.100	44.2031	0.1352512	0.0664324	7	45.5	1.6	0.5	0.10723	427.5	422.5	0.308	1.11	1.00	427.53	7.347	1	3.41				
41.120	43.0488	0.1801932	0.1775957	7	50.3	2.3	0.5	0.10743	417.0	412.0	0.422	1.21	1.00	417.05	6.826	0.001	4.00				
41.140	36.4081	0.2416066	0.3015727	6	51.4	4.2	0.5	0.10783	353.3	348.8	0.668	1.41	1.00	353.85	4.200	0.001	4.00				
41.160	33.4545	0.2553079	0.1355335	6	49.6	5.2	0.5	0.10783	323.5	318.5	0.768	1.48	1.00	323.47	3.228	0.001	4.00				
41.180	24.9259	0.2019074	0.0284846	6	38.6	7.1	0.5	0.10803	240.1	235.1	0.826	1.59	1.00	240.09	1.367	0.001	4.00				
41.200	22.7087	0.2424778	0.0522024	6	38.3	9.5	0.5	0.10823	218.8	213.8	1.090	1.71	1.04	228.37	1.188	0.001	4.00				
41.220	41.2827	0.2738671	0.0177596	6	37.6	11.7	0.5	0.10843	202.6	197.6	1.331	1.80	1.10	223.71	1.121	0.001	4.00				
41.240	18.4308	0.2171424	0.314772	6	32.7	11.7	0.5	0.10863	179.9	174.9	1.191	1.80	1.10	198.70	0.810	0.001	3.18				
41.260	20.3701	0.1688607	0.12511	6	32.5	8.5	0.5	0.10883	196.5	191.5	0.845	1.66	1.01	199.14	0.814	0.001	3.20				
41.280	24.8903	0.1717876	-0.0107087	6	36.9	6.3	0.5	0.10903	238.2	233.2	0.706	1.55	1.00	238.17	1.337	0.001	4.00				
41.300	30.5342	0.2068294	-0.0519474	6	44.1	5.2	0.5	0.10923	291.7	286.7	0.690	1.48	1.00	291.86	2.387	0.001	4.00				
41.320	23.6936	0.1760655	-0.0397678	6	36.1	7.0	0.5	0.10943	226.1	221.1	0.761	1.59	1.00	226.12	1.155	0.001	4.00				
41.340	25.7933	0.1330748	0.1258206	6	35.2	4.8	0.5	0.10963	247.5	242.5	0.524	1.45	1.00	247.53	1.490	0.001	4.00				
41.360	20.8171	0.1530691	0.1133636	6	32.2	7.7	0.5	0.10983	199.7	194.7	0.760	1.63	1.00	199.72	0.821	0.001	3.25				
41.380	22.7207	0.1603802	0.2192046	6	34.5	6.9	0.5	0.11003	218.7	213.7	0.716	1.58	1.00	218.69	1.053	0.001	4.00				
41.400	23.0021	0.2174551	0.3197572	6	38.0	8.5	0.5	0.11023	222.1	217.1	0.954	1.66	1.01	225.18	1.142	0.001	4.00				
41.420	25.0433	0.1957158	0.1871127	6	38.8	6.9	0.5	0.11043	240.1	235.1	0.792	1.58	1.00	240.09	1.387	0.001	4.00				
41.440	26.982	0.1590918	0.2554035	6	38.3	5.1	0.5	0.11063	259.0	254.0	0.596	1.47	1.00	258.96	1.895	0.001	4.00				
41.460	27.3036	0.1468338	0.3224197	6	37.7	4.7	0.5	0.11083	282.4	257.4	0.542	1.44	1.00	282.42	1.761	0.001	4.00				
41.480	28.0241	0.1589665	0.0559412	6	38.9	4.8	0.5	0.11103	286.5	261.5	0.575	1.45	1.00	286.49	1.840	0.001	4.00				
41.500	28.6796	0.1429375	0.0141907	6	38.2	4.3	0.5	0.11123	272.1	267.1	0.507	1.41	1.00	272.07	1.953	0.001	4.00				
41.520	27.3413	0.0771694	0.3823263	7	31.4	2.8	0.5	0.11143	282.6	257.6	0.264	1.27	1.00	282.63	1.765	0.001	4.00				
41.540	28.2712	0.0806279	0.2284384	7	32.2	2.7	0.5	0.11163	289.7	264.8	0.288	1.27	1.00	289.74	1.905	0.001	4.00				
41.560	26.9373	0.0932174	0.0343012	6	32.7	3.4	0.5	0.11183	255.1	250.1	0.353	1.34	1.00	255.05	1.623	0.001	4.00				
41.580	27.0793	0.0887957	0.0156919	6	32.3	3.2	0.5	0.11203	256.0	251.0	0.334	1.32	1.00	255.99	1.840	0.001	4.00				
41.600	24.9802	0.0732418	0.0053817	6	29.4	3.3	0.5	0.11223	235.8	230.9	0.299	1.33	1.00	235.85	1.300	0.001	4.00				
41.620	24.2028	0.0706838	0.0354056	6	28.7	3.4	0.5	0.11243	228.6	223.6	0.298	1.34	1.00	228.59	1.191	0.001	4.00				
41.640	23.5839	0.1287094	0.0548649	6	33.3	5.6	0.5	0.11263	222.8	217.8	0.557	1.51	1.00	222.55	1.105	0.001	4.00				
41.660	23.2865	0.0731104	0.0616628	6	28.4	3.8	0.5	0.11283	219.6	214.6	0.321	1.37	1.00	219.80	1.065	0.001	4.00				
41.680	22.3956	0.063279	-0.0089789	6	26.8	3.7	0.5	0.11303	210.6	205.6	0.290	1.37	1.00	210.57	0.948	0.001	3.85				
41.700	21.2562	0.1260201	0.0937263	6	31.2	6.6	0.5	0.11323	200.8	195.7	0.605	1.57	1.00	200.84	0.831	0.001	3.38				
41.720	20.7575	0.1411363	0.0129727	6	31.7	7.5	0.5	0.11343	195.0	190.0	0.697	1.62	1.00	195.02	0.770	0.001	3.14				
41.740	20.4701	0.0745426	0.0692538	6	26.7	4.9	0.5	0.11363	192.7	187.7	0.373	1.46	1.00	192.68	0.745	0.001	3.04				
41.760	18.5375	0.068875	0.4703594	6	24.9	5.2	0.5	0.11383	178.2	173.2	0.361	1.48	1.00	178.16	0.806	0.001	2.48				
41.780	18.9065	0.0581006	0.2889882	6	24.3	4.7	0.5	0.11403	179.8	174.8	0.311	1.44	1.00	179.76	0.820	0.001	2.54				
41.800	18.7163	0.0622158	0.2564909	6	24.5	5.0	0.5	0.11423	177.5	172.5	0.337	1.47	1.00	177.54	0.800	0.001	2.46				
41.820	19.0888	0.0500641	0.2857703	6	23.6	4.2	0.5	0.11443	160.9	176.0	0.266	1.41	1.00	180.93	0.831	0.001	2.59				
41.840	19.2124	0.0571687	0.3140072	6	24.5	4.5	0.5	0.11463	182.4	177.4	0.301	1.43	1.00	182.40	0.844	0.001	2.65				
41.860	19.2124	0.0542543	0.3481668	6	24.2	4.4	0.5	0.11483	182.5	177.6	0.265	1.42	1.00	182.54	0.846	0.001	2.66				
41.880	18.9714	0.0471372	0.3899880	6	23.4	4.1	0.5	0.11503	180.5	175.5	0.250	1.40	1.00	180.52	0.827	0.001	2.59				

CPT Verileri		Pa(MPa) 0.1										Q BÖLGESİ									
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	c'v0 [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)/cs	CRR	Oturma [m]	FL Güvenlik Katsayısı				
41.900	19.4804	0.0439288	0.334486	6	23.3	3.8	0.5	0.11523	184.4	179.4	0.226	1.37	1.00	184.40	0.863	0.001	3.41				
41.920	19.2948	0.0356234	0.3003264	6	22.3	3.5	0.5	0.11543	182.4	177.4	0.187	1.35	1.00	182.38	0.844	0.001	2.74				
41.940	18.6059	0.0486256	0.2772416	6	23.2	4.4	0.5	0.11563	175.8	170.6	0.265	1.42	1.00	175.61	0.984	0.001	2.67				
41.960	18.1457	0.0635542	0.293476	6	24.3	5.4	0.5	0.11563	171.1	166.1	0.356	1.50	1.00	171.05	0.545	0.001	2.42				
41.980	19.0231	0.0621157	0.2560377	6	24.9	4.9	0.5	0.11603	179.0	174.0	0.331	1.46	1.00	179.00	0.813	0.001	2.26				
42.000	20.818	0.063329	0.2439887	6	26.3	4.3	0.5	0.11623	195.4	190.4	0.309	1.41	1.00	195.36	0.773	0.001	3.22				
42.020	22.0906	0.0584508	0.2616349	6	26.7	3.7	0.5	0.11643	207.2	202.2	0.268	1.36	1.00	207.15	0.907	0.001	3.78				
42.040	23.1853	0.0608774	0.3096169	6	27.7	3.4	0.5	0.11663	217.8	212.6	0.266	1.34	1.00	217.55	1.038	0.001	4.00				
42.060	24.428	0.057913	0.2031445	7	28.0	3.0	0.5	0.11683	227.9	222.9	0.240	1.30	1.00	227.88	1.181	0.001	4.00				
42.080	24.8855	0.0376497	0.2033145	7	25.8	2.3	0.5	0.11703	231.9	226.9	0.163	1.22	1.00	231.92	1.240	0.001	4.00				
42.100	25.6147	0.0428093	0.1963749	7	26.9	2.3	0.5	0.11723	238.4	233.4	0.169	1.22	1.00	238.39	1.340	0.001	4.00				
42.120	24.7234	0.060546	-0.0398528	6	28.4	3.1	0.5	0.11743	227.8	222.8	0.251	1.31	1.00	227.78	1.179	0.001	4.00				
42.140	22.7356	0.1064761	0.2353434	6	31.6	5.3	0.5	0.11763	211.8	206.9	0.475	1.49	1.00	211.83	0.964	0.001	4.00				
42.160	21.8461	0.0683767	0.0606898	6	29.3	5.1	0.5	0.11783	201.3	196.8	0.414	1.47	1.00	201.81	0.844	0.001	3.58				
42.180	23.7243	0.0902154	0.0855971	6	30.9	4.4	0.5	0.11803	219.2	214.2	0.388	1.43	1.00	219.16	1.059	0.001	4.00				
42.200	24.1099	0.1931329	0.0100269	6	38.3	7.8	0.5	0.11823	221.8	216.9	0.819	1.63	1.00	221.83	1.095	0.001	4.00				
42.220	25.9784	0.1762969	0.0237361	6	38.3	6.8	0.5	0.11843	230.7	225.7	0.718	1.58	1.00	230.66	1.221	0.001	4.00				
42.240	23.7637	0.189443	0.0432801	6	37.8	7.8	0.5	0.11863	218.6	213.6	0.814	1.63	1.00	218.58	1.051	0.001	4.00				
42.260	24.482	0.1729259	0.0798889	6	37.7	6.9	0.5	0.11883	225.4	220.4	0.720	1.59	1.00	225.41	1.145	0.001	4.00				
42.280	26.3115	0.1429625	0.2024364	6	37.4	5.2	0.5	0.11903	243.0	238.1	0.560	1.48	1.00	243.02	1.415	0.001	4.00				
42.300	26.6779	0.104012	0.4072237	6	34.6	3.9	0.5	0.11923	248.0	243.1	0.392	1.39	1.00	248.05	1.499	0.001	4.00				
42.320	27.4553	0.0750742	0.3073509	7	32.1	2.9	0.5	0.11943	254.0	249.1	0.276	1.29	1.00	254.04	1.805	0.001	4.00				
42.340	28.599	0.0750617	0.3391555	7	32.8	2.7	0.5	0.11963	284.6	259.6	0.264	1.27	1.00	284.58	1.802	0.001	4.00				
42.360	27.765	0.0696081	0.3038104	7	31.7	2.7	0.5	0.11983	256.3	251.4	0.253	1.27	1.00	256.32	1.846	0.001	4.00				
42.380	22.2589	0.1150254	0.3271499	6	32.2	5.9	0.5	0.12003	206.2	201.2	0.522	1.53	1.00	206.16	0.895	0.001	3.83				
42.400	22.3325	0.1039994	0.2636177	6	31.4	5.5	0.5	0.12023	206.1	201.1	0.472	1.50	1.00	206.08	0.894	0.001	3.83				
42.420	20.9898	0.1358578	0.2454332	6	32.4	7.4	0.5	0.12043	193.5	188.5	0.657	1.61	1.00	193.50	0.754	0.001	3.24				
42.440	19.4884	0.113662	0.0806686	6	29.4	7.5	0.5	0.12063	178.2	173.2	0.597	1.62	1.00	178.17	0.806	0.001	2.61				
42.460	18.5621	0.1008411	0.0260881	6	27.7	7.5	0.5	0.12083	169.1	164.2	0.569	1.62	1.00	169.12	0.530	0.001	2.28				
42.480	17.1151	0.1152818	0.0126326	6	27.2	9.4	0.5	0.12103	155.7	150.7	0.685	1.70	1.04	162.07	0.476	0.001	2.05				
42.500	16.0449	0.0976953	0.0022376	6	25.1	9.3	0.5	0.12123	145.7	140.8	0.630	1.70	1.04	151.49	0.403	0.001	1.74				
42.520	15.328	0.0802589	-0.0229996	6	23.3	8.9	0.5	0.12143	138.9	133.9	0.544	1.68	1.03	142.53	0.349	0.001	1.51				
42.540	14.768	0.0888836	-0.0075627	6	23.9	10.7	0.5	0.12163	128.9	123.9	0.666	1.76	1.08	144.28	0.359	0.001	1.56				
42.560	14.4998	0.0833422	0.0126328	6	22.7	9.9	0.5	0.12183	131.5	126.5	0.597	1.73	1.06	138.83	0.329	0.001	1.43				
42.580	13.5497	0.0593764	0.325592	6	20.6	8.7	0.5	0.12203	125.6	120.6	0.446	1.67	1.02	128.20	0.276	0.001	1.20				
42.600	13.8608	0.0481816	0.2432522	6	19.9	7.6	0.5	0.12223	127.6	122.6	0.365	1.62	1.00	127.57	0.273	0.001	1.19				
42.620	14.1045	0.0424841	0.2057787	6	19.6	7.0	0.5	0.12243	129.3	124.4	0.309	1.59	1.00	129.33	0.281	0.001	1.22				
42.640	14.2228	0.0405453	0.205892	6	19.6	6.7	0.5	0.12263	130.3	125.3	0.292	1.57	1.00	130.30	0.286	0.001	1.25				
42.660	14.8223	0.0331655	0.2147293	6	19.4	5.7	0.5	0.12283	135.7	130.7	0.229	1.51	1.00	135.68	0.312	0.001	1.36				
42.680	15.3771	0.0288502	0.1969525	6	19.4	5.1	0.5	0.12303	140.4	135.5	0.193	1.47	1.00	140.43	0.338	0.001	1.48				

CPT Verileri		Pa(MPa) 0.1										Q BÖLGESİ									
Derinlik m	qc Koni Uc Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	$\sigma'v0$ [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı				
42.700	16.3473	0.03140861	0.2364826	6	20.4	4.7	0.5	0.12323	149.4	144.4	0.196	1.45	1.00	149.39	0.390	0.001	3.41				
42.720	18.1554	0.0329866	0.252826	6	21.9	4.1	0.5	0.12943	165.7	160.7	0.185	1.40	1.00	165.69	0.503	0.001	1.71				
42.740	20.201	0.0359798	0.2691126	6	23.6	3.5	0.5	0.12963	184.1	179.1	0.181	1.35	1.00	184.10	0.680	0.001	2.21				
42.760	21.9979	0.0438412	0.2403631	6	25.7	3.4	0.5	0.12983	199.3	194.6	0.202	1.34	1.00	199.57	0.819	0.001	2.90				
42.780	22.7102	0.0532349	0.113327	6	27.1	3.6	0.5	0.12403	204.9	200.0	0.239	1.36	1.00	204.94	0.890	0.001	3.60				
42.800	24.4771	0.0659867	0.0235661	6	28.5	3.2	0.5	0.12423	219.8	214.9	0.234	1.32	1.00	219.82	1.068	0.001	3.88				
42.820	28.4731	0.0628912	0.3471188	7	31.9	2.6	0.5	0.12443	258.4	253.5	0.222	1.25	1.00	258.41	1.685	0.001	4.00				
42.840	32.5095	0.0619781	-0.0131143	7	33.8	1.9	0.5	0.12463	293.8	288.8	0.192	1.17	1.00	293.77	2.438	0.001	4.00				
42.860	33.1977	0.1354075	0.0971819	6	42.5	3.5	0.5	0.12483	298.0	293.0	0.414	1.34	1.00	298.00	2.541	0.001	4.00				
42.880	32.4553	0.1335626	0.1477466	6	41.9	3.6	0.5	0.12903	291.8	286.6	0.417	1.35	1.00	291.57	2.385	0.001	4.00				
42.900	30.5815	0.0874636	0.1374696	7	36.0	2.9	0.5	0.12523	274.5	269.6	0.280	1.28	1.00	274.51	2.004	0.001	4.00				
42.920	27.7778	0.2499451	0.1373463	6	45.9	7.9	0.5	0.12543	249.3	244.3	0.914	1.64	1.00	249.25	1.520	0.001	4.00				
42.940	24.7849	0.2441539	0.3225956	6	42.5	9.2	0.5	0.12563	223.3	218.9	0.985	1.70	1.00	223.60	1.235	0.001	4.00				
42.960	23.1712	0.238325	0.1706561	6	40.3	10.1	0.5	0.12583	203.1	203.1	1.046	1.73	1.06	220.68	1.079	0.001	4.00				
42.980	22.0196	0.2189248	0.2063735	6	38.2	10.2	0.5	0.12603	196.0	193.0	1.010	1.74	1.06	210.65	0.949	0.001	4.00				
43.000	19.5542	0.2508845	0.1088534	6	36.3	13.5	0.5	0.12623	176.0	170.1	1.313	1.89	1.15	201.67	0.843	0.001	3.77				
43.020	17.9056	0.2326688	0.0456877	6	33.5	14.6	0.5	0.12643	159.7	154.7	1.338	1.86	1.18	188.83	0.706	0.001	3.16				
43.040	16.3131	0.2737545	0.051126	6	32.6	18.5	0.5	0.12663	145.4	140.5	1.732	2.00	1.30	189.73	0.715	0.001	3.21				
43.060	13.5346	0.1186866	0.2793065	6	24.4	13.3	0.5	0.12683	125.3	120.4	0.676	1.85	1.15	143.65	0.356	0.001	1.60				
43.080	14.0729	0.0959379	0.2038609	6	23.5	11.5	0.5	0.12703	126.7	121.7	0.699	1.79	1.10	139.10	0.330	0.001	1.48				
43.100	14.4279	0.073846	0.149101	6	22.9	10.0	0.5	0.12723	129.2	124.3	0.566	1.73	1.06	136.82	0.317	0.001	1.43				
43.120	15.3359	0.0757809	0.1650167	6	23.0	8.8	0.5	0.12743	137.5	132.5	0.560	1.68	1.02	140.64	0.359	0.001	1.53				
43.140	16.9927	0.0868207	0.2269539	6	26.1	8.3	0.5	0.12763	152.3	147.4	0.533	1.65	1.01	153.14	0.414	0.001	1.87				
43.160	17.9988	0.094587	0.1271494	6	26.8	8.4	0.5	0.12783	154.9	150.0	0.558	1.66	1.01	156.32	0.435	0.001	1.97				
43.180	18.6716	0.0961318	0.0176578	6	28.0	7.6	0.5	0.12803	165.2	160.2	0.550	1.62	1.00	165.17	0.499	0.001	2.28				
43.200	18.2781	0.0777197	0.0045036	6	26.3	6.9	0.5	0.12823	161.5	156.5	0.459	1.58	1.00	161.45	0.471	0.001	2.14				
43.220	17.7145	0.0731104	0.0217617	6	25.5	7.0	0.5	0.12843	156.5	151.6	0.426	1.59	1.00	156.51	0.437	0.001	1.98				
43.240	16.0905	0.0668873	0.0440449	6	22.8	7.1	0.5	0.12863	142.3	137.3	0.365	1.59	1.00	142.26	0.348	0.001	1.58				
43.260	15.2044	0.0599768	0.1370914	6	22.4	7.9	0.5	0.12883	135.2	130.2	0.406	1.64	1.00	135.16	0.310	0.001	1.41				
43.280	14.9222	0.059145	0.1875943	6	22.1	8.0	0.5	0.12903	133.0	128.1	0.407	1.64	1.00	132.75	0.298	0.001	1.36				
43.300	14.5243	0.0470559	0.2459147	6	20.8	7.4	0.5	0.12923	129.9	125.0	0.351	1.61	1.00	129.93	0.284	0.001	1.30				
43.320	12.2973	0.0694706	0.4276175	6	20.5	11.5	0.5	0.12943	111.9	106.9	0.571	1.79	1.10	122.77	0.252	0.001	1.15				
43.340	12.5339	0.0637481	0.3768604	6	20.3	10.7	0.5	0.13023	113.4	108.5	0.516	1.76	1.08	122.22	0.250	0.000	1.14				
43.360	12.1658	0.0697142	0.4201398	6	19.7	10.8	0.5	0.12983	110.5	105.5	0.497	1.76	1.08	119.16	0.237	0.000	1.09				
43.380	12.6288	0.0487619	0.3806984	6	19.3	9.0	0.5	0.13003	114.1	109.1	0.376	1.69	1.03	117.46	0.231	0.000	1.06				
43.400	13.4437	0.047206	0.332135	6	20.0	8.3	0.5	0.13023	120.7	115.8	0.357	1.66	1.01	121.58	0.247	0.000	1.14				
43.420	15.1562	0.0546233	0.2630512	6	22.1	7.5	0.5	0.13043	135.0	130.1	0.368	1.62	1.00	135.01	0.309	0.000	1.42				
43.440	16.1028	0.0512211	0.2759106	6	22.7	6.6	0.5	0.13063	143.3	138.4	0.354	1.57	1.00	143.30	0.354	0.000	1.63				
43.460	17.1405	0.0735732	0.2804873	6	25.4	7.4	0.5	0.13083	152.2	147.2	0.437	1.61	1.00	152.17	0.408	0.000	1.88				
43.480	17.8223	0.0539479	0.2865427	6	24.4	5.8	0.5	0.13103	156.0	153.1	0.366	1.52	1.00	156.05	0.447	0.000	2.06				

CPT Verileri		Pa(MPa) 0.1										Q BÖLGESİ									
Derinlik m	qc Koni Üç Dönme Direnci	fs Sürünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'v0 [MPa]	qc1N	Q	F [%]	lc	Kc	(qc1N)cs	GRR	Oturma [m]	FL Güvenlik Katsayısı				
43.500	18.0485	0.0634538	0.312676	6	24.5	5.6	0.5	0.13123	180.3	155.3	0.300	1.51	1.00	160.28	0.463	0.000	3.41				
43.520	18.3298	0.0647174	0.3662918	6	25.9	6.1	0.5	0.13143	163.3	158.3	0.357	1.54	1.00	163.26	0.485	0.000	2.14				
43.540	19.9065	0.0692088	0.3762932	6	30.0	7.0	0.5	0.13163	176.8	171.8	0.503	1.59	1.00	176.79	0.594	0.000	2.24				
43.560	22.2036	0.1629631	-0.0027758	6	35.9	8.5	0.5	0.13183	193.4	188.4	0.753	1.67	1.02	196.28	0.783	0.000	2.75				
43.580	21.9723	0.151418	0.3478269	6	35.3	8.0	0.5	0.13203	194.2	189.3	0.696	1.64	1.00	193.93	0.758	0.000	3.64				
43.600	20.846	0.3089901	0.2143611	6	40.5	14.7	0.5	0.13223	183.1	178.2	1.508	1.90	1.18	216.97	1.030	0.000	3.52				
43.620	21.2597	0.2963131	0.0459993	6	40.5	14.0	0.5	0.13243	185.1	180.2	1.429	1.88	1.17	215.96	1.017	0.000	4.00				
43.640	21.0915	0.3123486	0.0517208	6	40.8	14.7	0.5	0.13263	183.6	178.6	1.518	1.90	1.19	217.82	1.041	0.000	4.00				
43.660	21.5787	0.2998402	0.0478404	6	41.0	13.9	0.5	0.13283	187.6	182.7	1.423	1.87	1.16	218.08	1.044	0.000	4.00				
43.680	23.4219	0.2649988	0.1006092	6	42.2	11.2	0.5	0.13303	203.9	199.0	1.155	1.78	1.09	222.64	1.106	0.000	4.00				
43.700	25.3904	0.2001187	-0.0032573	6	41.3	8.1	0.5	0.13323	219.9	215.0	0.806	1.65	1.00	220.02	1.071	0.000	4.00				
43.720	23.18	0.150899	-0.0096021	6	36.3	7.6	0.5	0.13343	200.6	195.6	0.666	1.62	1.00	200.59	0.831	0.000	3.90				
43.740	22.3474	0.0667875	0.0465656	6	29.2	4.6	0.5	0.13363	193.7	188.8	0.306	1.44	1.00	193.72	0.756	0.000	3.55				
43.760	23.3684	0.0601519	0.1707694	6	29.3	4.0	0.5	0.13383	203.5	198.5	0.262	1.39	1.00	203.48	0.863	0.000	4.00				
43.780	21.3973	0.071622	0.3667194	6	29.2	5.1	0.5	0.13403	188.0	183.1	0.338	1.48	1.00	187.99	0.898	0.000	3.29				
43.800	20.2142	0.1039494	0.345308	6	31.7	6.6	0.5	0.13423	177.4	172.4	0.495	1.57	1.00	186.09	0.879	0.000	3.20				
43.820	20.2185	0.1057318	0.3481101	6	30.9	7.3	0.5	0.13443	177.4	172.4	0.529	1.60	1.00	177.38	0.599	0.000	2.83				
43.840	19.0818	0.0772757	0.37043	6	27.8	6.5	0.5	0.13463	167.6	162.7	0.409	1.56	1.00	167.85	0.518	0.000	2.45				
43.860	18.7338	0.0781262	0.3240342	6	27.5	6.8	0.5	0.13483	164.1	159.2	0.423	1.58	1.00	164.13	0.491	0.000	2.32				
43.880	18.9319	0.087326	0.3462407	6	28.5	7.2	0.5	0.13503	165.9	161.0	0.467	1.60	1.00	165.90	0.505	0.000	2.39				
43.900	20.293	0.0830857	0.3535768	6	29.4	6.2	0.5	0.13523	177.5	172.6	0.414	1.54	1.00	177.55	0.800	0.000	2.85				
43.920	20.9907	0.0947997	0.1165954	6	30.7	6.5	0.5	0.13543	181.4	176.5	0.462	1.56	1.00	181.39	0.935	0.000	3.02				
43.940	21.1326	0.1013164	-0.0292877	6	31.2	6.8	0.5	0.13563	181.2	176.3	0.494	1.58	1.00	181.21	0.933	0.000	3.01				
43.960	21.0908	0.1021045	-0.024964	6	31.2	6.9	0.5	0.13583	180.7	175.8	0.468	1.58	1.00	180.75	0.829	0.000	2.99				
43.980	21.1195	0.0921417	-0.0301091	6	30.5	6.4	0.5	0.13603	180.8	175.9	0.449	1.56	1.00	180.82	0.830	0.000	3.00				
44.000	21.4736	0.0892273	-0.0258604	6	30.6	6.1	0.5	0.13623	183.8	178.8	0.428	1.54	1.00	183.76	0.857	0.000	3.13				
44.020	22.0268	0.0829231	-0.0160034	6	30.6	5.6	0.5	0.13643	188.4	183.5	0.387	1.51	1.00	188.44	0.702	0.000	3.35				
44.040	23.0363	0.0719347	0.0070245	6	30.4	4.7	0.5	0.13663	197.1	192.2	0.320	1.45	1.00	197.14	0.793	0.000	3.79				
44.060	23.3018	0.0649176	0.0470189	6	30.0	4.4	0.5	0.13683	199.6	194.7	0.285	1.42	1.00	199.61	0.820	0.000	3.92				
44.080	23.8768	0.0568936	0.092735	6	29.8	3.9	0.5	0.13703	204.8	199.8	0.252	1.38	1.00	204.76	0.878	0.000	4.00				
44.100	20.8684	0.0403702	0.3552196	6	25.8	4.0	0.5	0.13723	181.3	176.4	0.195	1.39	1.00	181.33	0.634	0.000	3.04				
44.120	23.4719	0.049176	0.3783609	6	28.7	3.6	0.5	0.13743	203.4	198.5	0.211	1.36	1.00	203.45	0.863	0.000	4.00				
44.140	23.3493	0.0545858	0.1730071	6	29.1	3.9	0.5	0.13763	200.5	195.6	0.238	1.38	1.00	200.50	0.830	0.000	3.98				
44.160	23.0731	0.0580068	0.0139357	6	29.2	4.2	0.5	0.13783	196.7	191.7	0.258	1.41	1.00	196.85	0.787	0.000	3.78				
44.180	22.8557	0.0546734	0.0005665	6	28.7	4.1	0.5	0.13803	184.5	189.6	0.245	1.40	1.00	184.54	0.765	0.000	3.68				
44.200	21.428	0.0957315	0.088288	6	31.4	6.5	0.5	0.13823	183.0	178.1	0.457	1.56	1.00	183.01	0.950	0.000	3.13				
44.220	20.5891	0.1442508	0.0081292	6	33.6	9.2	0.5	0.13843	174.9	170.0	0.721	1.70	1.04	181.14	0.833	0.000	3.05				
44.240	21.6436	0.1666036	-0.0193174	6	37.0	10.2	0.5	0.13863	183.7	178.7	0.887	1.74	1.06	195.46	0.877	0.000	3.74				
44.260	22.8005	0.1607179	-0.0668745	6	36.8	8.5	0.5	0.13883	192.9	188.0	0.726	1.67	1.01	195.67	0.777	0.000	3.75				
44.280	22.0669	0.1648956	-0.0573008	6	36.3	9.1	0.5	0.13903	186.7	181.7	0.770	1.69	1.03	192.90	0.748	0.000	3.61				

CPT Verileri		Pa _s (MPa) 0.1										Q BÖLGESİ					
Derinlik m	qc Koni Uç Direnci	fs Sürtünme Katsayısı	u Boşluk Suyu Basıncı	Alan No.	Nc	Fc [%]	n	σ'v0 [MPa]	qc1N	Q	F [%]	Ic	Kc	(qc1N)cs	CRR	Oturma [m]	FL Güvenlik Katsayısı
44.300	21.6857	0.2464366	-0.0470756	6	39.6	12.5	0.5	0.13923	183.4	178.5	1.170	1.82	1.12	206.14	0.895	0.000	3.41
44.320	20.7584	0.2505706	-0.0224615	6	36.6	13.4	0.5	0.13943	176.6	170.7	1.243	1.86	1.15	201.93	0.946	0.000	4.00
44.340	21.2431	0.1874604	-0.0149837	6	36.6	10.6	0.5	0.13963	179.6	174.7	0.968	1.76	1.07	193.06	0.749	0.000	3.63
44.360	19.1247	0.0975515	0.5207773	6	29.9	7.7	0.5	0.13983	166.1	161.2	0.512	1.63	1.00	166.14	0.506	0.000	2.48
44.380	21.0793	0.1050314	0.191873	6	32.0	7.1	0.5	0.14003	179.7	174.8	0.508	1.80	1.00	179.74	0.920	0.000	3.01
44.400	21.9837	0.1029425	0.0142756	6	32.5	6.7	0.5	0.14023	185.8	180.8	0.481	1.57	1.00	185.76	0.876	0.000	3.29
44.420	23.9833	0.1173082	-0.0231413	6	34.8	6.6	0.5	0.14043	197.1	192.2	0.515	1.57	1.00	197.13	0.792	0.000	3.88
44.440	27.4605	0.1324619	-0.0244442	6	39.6	5.5	0.5	0.14063	231.4	226.4	0.493	1.50	1.00	231.36	1.232	0.000	4.00
44.460	25.5324	0.184694	0.0002832	6	41.3	7.9	0.5	0.14083	215.2	210.2	0.741	1.84	1.00	215.15	1.006	0.000	4.00
44.480	26.4298	0.2448918	0.1526883	6	44.4	9.8	0.5	0.14103	215.4	210.5	0.960	1.72	1.05	226.49	1.160	0.000	4.00
44.500	27.0276	0.2388191	0.1272061	6	46.0	8.7	0.5	0.14123	228.5	223.6	0.889	1.66	1.02	233.32	1.281	0.000	4.00
44.520	24.2159	0.342387	0.1037816	6	46.7	13.5	0.5	0.14143	204.5	199.6	1.443	1.86	1.15	255.53	1.295	0.000	4.00
44.540	27.4097	0.3589166	0.1647079	6	51.8	11.7	0.5	0.14163	231.7	226.8	1.350	1.79	1.10	255.57	1.832	0.000	4.00
44.560	29.1989	0.2841678	0.2164571	6	50.8	8.8	0.5	0.14183	246.9	242.0	0.966	1.68	1.02	252.99	1.596	0.000	4.00
44.580	29.138	0.2079364	0.2433939	6	46.7	6.9	0.5	0.14203	246.5	241.6	0.722	1.59	1.00	246.54	1.474	0.000	4.00
44.600	29.1862	0.200863	0.4074503	6	46.5	6.7	0.5	0.14223	248.1	243.2	0.693	1.57	1.00	248.14	1.501	0.000	4.00
44.620	30.4921	0.2253915	0.5161321	6	49.4	6.8	0.5	0.14243	258.8	254.9	0.741	1.58	1.00	259.82	1.711	0.000	4.00
44.640	25.828	0.290897	0.3272915	6	47.3	10.8	0.5	0.14263	219.0	214.1	1.138	1.76	1.08	236.83	1.312	0.000	4.00
44.660	33.0425	0.2401762	0.3720162	6	52.8	6.3	0.5	0.14283	279.6	274.7	0.732	1.55	1.00	279.59	2.113	0.000	4.00
44.680	42.8481	0.1804371	0.3724127	7	56.2	3.1	0.5	0.14303	361.4	356.5	0.423	1.31	1.00	361.39	4.469	0.000	4.00
45.680	42.8481	0.1804371	0.3724127	6	57.6	3.3	0.5	0.15303	349.4	344.5	0.423	1.33	1.00	349.38	4.046	0.000	4.00

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