City Water, Light & Power
Springfield, Sangamon County,
Illinois

Periodic Structural Stability Assessment for Coal Combustion Residuals Surface Impoundments

July 2025

Prepared for:
City Water, Light & Power
3100 Stevenson Drive
Springfield, Illinois 62712

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1 INTRODUCTION

City Water, Light and Power (CWLP) Lakeside Ash Pond and Dallman Ash Pond are coal combustion residuals (CCR) surface impoundments. An assessment of the structural stability for the CCR surface impoundments was conducted as required by 40 CFR 257.73(d).

Analysis performed herein for the Periodic Structural Stability Assessment of the existing ash ponds at Springfield City Water, Light and Power, Lakeside and Dallman Ash Ponds, Springfield, Illinois, as required per 40 CFR 257.73(d)(1). Information reviewed for this report includes the following documents:

- Inflow Design Flood Control System Plan (July 2025)
- Geotechnical Investigation Report Addendum (July 2025)
- Geotechnical Investigation Report (June 2024)
- Coal Ash Impoundment Site Assessment Final Report (May 2011)
- Historical Aerial Photographs (April 1995 – April 2024)
- Engineering Report: Proposed Embankment Modification; CWLP Ash Disposal Area (July 1987)
- Construction Grading Plan for the Dallman Ash Pond (August 1976)
- Annual Inspection Report for Coal Combustion Residuals Surface Impoundments (Appendix A)
- Annual Inspection Report for Coal Combustion Residuals Landfill (Appendix B)

2 CCR UNIT INFORMATION

Both the Lakeside Ash Pond and the Dallman Ash Pond are owned and operated by CWLP. The ponds are operated under National Pollutant Discharge Elimination System (NPDES) Permit Number IL0024767.

The Lakeside Ash Pond is primarily a diked embankment with some incising along the east perimeter and was placed into service prior to 1958. The original Lakeside Ash Pond has been divided into four separate ponds since it was expanded vertically in 1988: three lime ponds and the settling pond. The vertical expansion consists of berms built on top and inside of the existing embankments. The current Lakeside Ash Pond is approximately 35.0 acres and ceased receiving ash in 2009.

The eastern portion of the original Lakeside Ash Pond is incised. The entire ash pond abuts the

Lake Springfield dam to the south. The original portion of the ash pond abuts the Unit 1 landfill and the clarification pond to the north. The only portions of the Lakeside Ash Pond with open downstream slopes are the west dike of the original ash pond, and the vertical expansion berms, which were constructed on the east, west and south boundaries of the ash pond.

The second impoundment, the Dallman Ash Pond, which is a diked embankment, was placed into service in approximately 1976. The Dallman Ash Pond is approximately 34.5 acres and ceased receiving ash in 2021.

The entire Dallman Ash Pond is partially incised. Material from the center of the ash pond was excavated and utilized in the construction of the dikes. The Dallman Ash Pond abuts the CWLP landfills to the east and the clarification pond to the south. The only open downstream slopes of the Dallman Ash Pond are on the west and north dikes.

Settled water from both the Dallman Ash Pond and Lakeside Ash Pond flow into opposite sides of a Clarification Pond before being discharged to Sugar Creek at Outfall 004 pursuant to the aforementioned NPDES permit.

As of October 13, 2023, all CCR and non-CCR waste streams ceased flowing into the Lakeside Ash Pond and Dallman Ash Pond.

3 SUBSURFACE CONDITIONS AT THE CCR IMPOUNDMENTS

The subsurface conditions of the area in and surrounding Lakeside and Dallman Ash Ponds have been characterized through multiple subsurface investigations, including the Geotechnical Investigation Report dated June 2024 and the Geotechnical Investigation Report Addendum dated July 2025. These investigations were reviewed and incorporated into the Periodic Safety Factor Assessment and Periodic Structural Stability Assessment.

4 DESIGN INFORMATION

The Sugar Creek historically meandered across the site, generally from the west to east with an overall flow direction to the north. During the construction of the ash ponds, the creek was abandoned and relocated to the west of the site. The old creek bed was filled with different types of soil, ranging from cohesive soils characterized as silty clays, to granular fill characterized as poorly graded silty to clayey sands. Prior to the area development, the upper layer of soil at the site consisted of mainly brown, light brown, and brownish-gray silty clays and clayey silts having soft to stiff consistency. This includes all eolian soils (loess) deposited near the surface, isolated pockets and lenses of fine grained silty to clayey sand at some locations and alluvial silts and silty clays.

According to the construction plan drawings for the Dallman Ash Pond, dikes were constructed on areas of the old creek bed. According to notes on these drawings, the creek bed in these areas was over-excavated by at least 4.0 feet below the existing channel banks and bottom. These excavations were then filled in with cohesive material and compacted to at least 90 percent of optimum density as determined under AASHTO-T99 at optimum moisture.

5 SLOPE PROTECTION

5.1 Lakeside Ash Pond

Both the upstream and downstream slopes of the Lakeside Ash Pond are vegetated to protect the slopes against surface erosion. During the 2024 Annual Inspection, no significant signs of erosion were observed on any of the slopes. Multiple animal dens were discovered, filled and compacted. No other visual indications of actual or potential structural weaknesses were noted in the 2024 Annual Inspection.

Lakeside Ash Pond no longer is receiving any process waters with limited amounts of surface water. With the limited amounts of surface water, wave action would be minimal and along the west side has rip-rap armor to protect from Sugar Creek. Lakeside Ash Pond has been filled near capacity and is not susceptible to sudden drawdown.

5.2 Dallman Ash Pond

The downstream slope of the Dallman Ash Pond is vegetated to protect against surface erosion. Riprap was placed on the bottom portion of the downstream slope. Ruts and gullies on the downstream slopes, when observed, are filled with soil and monitored during the weekly inspections. During the 2024 Annual Inspection, no significant signs of erosion were observed on any the downstream slopes and no observations of significant erosion on the downstream slopes was noted during any of the weekly inspections prior to the Annual Inspection.

Dallman Ash Pond no longer is receiving any process waters and has a reduced pool of shallow surface water not adjoining the exterior embankment except along the Clarification Pond. With the reduced pool of shallow surface water, wave action would be minimal and along the west and north sides has rip-ram armor to protect from Sugar Creek. Dallman Ash Pond has been filled near capacity and is not susceptible to sudden drawdown.

6 DIKE COMPACTION

6.1 Documentation

6.1.1 Lakeside Ash Pond

No as-built construction documentation is available for the Lakeside Ash Pond. No construction plans are available for the original construction of the Lakeside Ash Pond. Construction plans for the vertical expansion (Engineering Report: Proposed Embankment Modification; CWLP Ash Disposal Area, July 1987) do call for the expansion berms to be constructed by placing cohesive material in thin lifts of 6 to 8 inches and compacted. A geotechnical investigation was performed on the dikes in October 2023 and found that in general the dikes were well compacted. In February 2024 a CPT investigation was conducted of the exterior of the dikes and within the ash ponds. In April/May 2024 an investigation within the ash ponds was conducted with a hollow stemmed auger for determination of the ash properties of pond liners. All of the previous noted investigations were reported in the Geotechnical Investigation Report dated June 2024. An undisturbed sample and a bucket sample was collected to confirm the compactive effort the soil likely received. The dry unit weight from the undisturbed sample was 98.2pcf and the standard proctor maximum dry density of the associated bucket sample was 105.3pcf yielding a 93.3% of maximum dry density. This level of compaction provides relatively good strength and would be considered incompressible.

6.1.2 Dallman Ash Pond

No as-built construction documentation is available for the Dallman Ash Pond. Notes in the construction plan drawings do call for dike materials to be compacted to “at least 90% of the minimum density at optimum moisture as determined by AASHTO-T99.” A geotechnical investigation was performed on the dikes in October 2023 and found that in general the dikes were well compacted. In February 2024 a CPT investigation was conducted of the exterior of the dikes and within the ash ponds. In April/May 2024 an investigation within the ash ponds was conducted with a hollow stemmed auger for determination of the ash properties of pond liners. All of the previous noted investigations were reported in the Geotechnical Investigation Report dated June 2024. A couple of undisturbed samples and a bucket sample were collected to confirm the compactive effort the soil likely received. The dry unit weight from the undisturbed samples ranged from 101.6pcf to 108.7pcf and the standard proctor maximum dry density of the associated bucket sample was 108.5pcf yielding an average of 96.1% of maximum dry density. This level of compaction provides higher strengths and is considered incompressible.

6.2 Slope Stability Analyses

A slope stability analyses was performed as part of the Periodic Safety Factor Assessment performed by Andrews Engineering, Inc. (Andrews) for both the Lakeside Ash Pond and Dallman

Ash Pond using available geotechnical data for the site. The analyses indicate that Lakeside and Dallman Ash Ponds provide factors of safety equal to or greater than minimum values as required by 40 CFR 257.73(e).

6.3 Liquefaction Analysis

A liquefaction analysis, found in Appendix 4, was conducted on the CPT soundings CPT-2L, CPT-4L, CPT-6L and CPT-7L for the dikes of Lakeside Ash Pond. The liquefaction analysis was conducted using the CLiq software version 3.5.3.8, copyright by GeoLogismiki.

The lateral displacement calculated at CPT-2L is approximately 6 millimeters with all other CPT soundings being significantly less. This amount of displacement would have no impact on the embankment integrity. With insignificant transitional displacement along the embankment and with no rigid structures within the earthen embankment, displacement would not result in a catastrophic release because of the self-healing nature of clay soils of which the embankment is constructed.

Additional liquefaction analysis was conducted using CLiq software to add the embankment loading onto the previous CPT soundings. The lateral displacement calculated at CPT-2L with the confining embankment load is less than half a millimeter with the remaining CPTs embankments being significantly less. This amount of displacement would have no impact on the embankment integrity and the soils would not be considered mobilized.

7 PERIODIC SEEPAGE AND EROSION REPAIRS

Periodic seepage is observed in the north east corner of Lakeside Ash Pond. The seepage water is minimal and is collected in a ditch running along the north east portion of Lakeside. The ditch flows freely into the Clarification Pond.

Historic erosional repairs were made adjacent to the roadway along the upper perimeter of the impoundments where stormwater sheet flowed to low lying areas of the roadway and down the embankments. Soil was placed near the erosional features and compacted in with available heavy equipment. The perimeter roads were graded in 2023 to allow stormwater falling on the roadways to drain inwards into the impoundments, preventing any additional erosional features on the downslope portions of the impoundments.

8 VEGETATED SLOPE HEIGHT

At a minimum, mowing of the embankments is conducted in April and October annually where vegetation is cut to approximately 6 inches or less to allow for thorough visual inspections. Visual inspections of the impoundments are conducted on a weekly basis and observations are recorded

and kept in the facility operating record.

8.1 Lakeside Ash Pond

No as-built construction documentation is available for the Lakeside Ash Pond. No construction plans are available for the original construction of the Lakeside Ash Pond. Construction plans for the vertical expansion (Engineering Report: Proposed Embankment Modification; CWLP Ash Disposal Area, July 1987) do not specify a thickness for the vegetated slope layer.

8.2 Dallman Ash Pond

No as-built construction documentation is available for the Dallman Ash Pond. Notes in the construction plan drawings do call for a 6-inch layer of seeded topsoil be placed on the top of all upstream and downstream slopes.

9 SPILLWAYS/HYDRAULIC STRUCTURES

9.1 Lakeside Ash Pond

During the vertical expansion, an outlet structure was constructed through the northern berm of the Lakeside Ash Pond, which drains into the adjacent clarification pond. The outlet is constructed with a 24-inch diameter reinforced concrete pipe (RCP). The length of the pipe is approximately 60 feet. The pipe was bedded in compacted cohesive material and an anti-seep collar at approximately halfway through the berm. The RCP has been completely blinded by a culvert pipe running perpendicular for future use related to the Lime Stabilization Decant Structure. In lieu of the structure, a pumping plan has been prepared and is included in the CWLP 2025 Inflow Design Flood Control System Plan. The west settling channel drains into the Clarification Basin through a 12-inch pipe.

9.2 Dallman Ash Pond

An outlet structure was constructed through the southern dike of the Dallman Ash Pond, which drains into the adjacent clarification pond. The outlet is constructed with two 24-inch diameter corrugated metal pipe (CMP) and two 24-inch diameter smooth HDPE pipe. The hydraulic structures were modeled using HY-8 and WinTR-20. The length of the four 24-inch diameter CMPs are approximately 30 feet. No other details are available on the installation of the two CMP outlets. It has been reported that the outlet appears to be structurally sound, with no observed signs of significant deterioration, deformation, distortion, bedding deficiencies, sedimentation, or debris. The two smooth HDPE outlets were constructed in 2024 bedded in compacted cohesive material.

9.3 Camera Inspection

Inspections of the outlet structures was carried out by CWLP with video and still photographs provided to Andrews Engineering, Inc. The only concern raised during the inspections was the complete blinding of the RCP for Lakeside Ash Pond and Lime Pond 3. The still photographs and screenshots of the video are included in Attachment 3.

9.4 Routine Inspections

Inspections of Lakeside and Dallman Ash Pond structures will be carried out weekly as are required under Illinois regulations. Camera inspections will be carried out on an annual basis.

10 ADJACENT BODIES OF WATER

Both Lakeside Ash Pond and Dallman Ash Pond are adjacent to the Clarification Pond to the north and the south, respectively. In addition, Sugar Creek is adjacent to both ash ponds to the west, and north of Dallman Ash Pond. The Periodic Safety Factor Assessments were performed by Andrews, which determined the safety factors for the Lakeside Ash Pond and Dallman Ash Pond for both long term, maximum storage pool loading; maximum surcharge pool loading conditions; and seismic scenarios. If Sugar Creek were to rise to levels above its banks, it would occur over a short period of time, likely well less than a week. The soils of the embankment and near the toe have low permeability and are already near saturation so the soil conditions would not experience any significant change, thus not reducing the stability of the embankments as provided in the Periodic Safety Factor Assessment. The Periodic Safety Factor Assessment provides an analysis of the rapid drawdown of the Clarification Pond.

11 OBSERVATIONS

As reported in the January 22, 2025 Annual Inspection Report, “Indications of seepage have been observed on the outer berms of the Lakeside Ash Pond and lime ponds, between the top of the original pond berms and the vertical expansion berms. These range from staining or dampness to areas with noticeable drainage. Signs of seepage have been observed along isolated portions of the east and west portions of the north berm of the Lakeside Ash Pond.”

Since process flows to Lakeside Ash Pond have ceased, seepage has been observed only after heavy spring rains. During the winter of 2023, the north berm of the Lakeside Ash Pond was cleared of all brush and woody plants; multiple animal dens were filled and compacted with a couple of those requiring to be refilled and recompacted. Two animal dens were also filled and compacted along this berm in January 2024. In 2024, similar minor events involving animal dens and seepage occurred. The dens were destroyed and filled and the seepage was directed to the Clarification Pond. The seepage only occurred after heavy spring rains. No other visual indications

of actual or potential structural weaknesses and other conditions that are disrupting or have the potential to disrupt the operation or safety of the CCR unit or appurtenant structures have been observed for the CCR units during any of the weekly inspections over the past year. Based on the review of historical aerial photographs, there were no observed indications of mass movement on any of the constructed berms for either unit. The 2025 Annual Inspection further notes that "No other visual indications of actual or potential structural weaknesses and other conditions that are disrupting or have the potential to disrupt the operation or safety of the CCR unit or appurtenant structures have been observed during any of the weekly inspections over the past year."

Based on the review of historical aerial photographs completed during the 2025 Annual Inspection, there were no observed indications of mass movement on any of the constructed berms for the surface impoundments.

12 STATEMENT

This Periodic Structural Stability Assessment for Coal Combustion Residuals Surface Impoundments was completed for CWLP by Andrews Engineering, Inc. in accordance with the requirements under 40 CFR 257.73(d)(3).

Signature: Karl W. Finke

Illinois P.E. No.: 062.068571

Date: 07/11/25



Lic. Exp. 11/30/25

APPENDIX A:

Annual Inspection Report for Coal Combustion Residuals Surface Impoundments

Annual Inspection Report for Coal Combustion Residuals Surface Impoundments

City Water, Light & Power
Ash Impoundments
Springfield, Sangamon County, Illinois

January 2025

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1. INTRODUCTION

City Water, Light and Power (CWLP) ash and lime ponds are coal combustion residuals (CCR) surface impoundments. An annual inspection was conducted as required by 40 CFR Part 257.83. This inspection included three items:

257.83(b)(1)(i) *A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., CCR unit design and construction information required by §§ 257.73(c)(1) and 257.74(c)(1), previous periodic structural stability assessments required under §§ 257.73(d) and 257.74(d), the results of inspections by a qualified person, and results of previous annual inspections);*

257.83(b)(1)(ii) *A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit and appurtenant structures; and*

257.83(b)(1)(iii) *A visual inspection of any hydraulic structures underlying the base of the CCR unit for structural integrity and continued safe and reliable operation.*

The following documents were reviewed:

- Weekly and monthly inspection results (October 2015 – December 2024)
- Historical Aerial Photographs and Contour Maps (April 1995 – April 2024)
- Construction grading plan for the Dallman Ash Pond (August 1976)
- (Lakeside) Ash Pond Embankment Modification Drawings (August 1987)

The visual inspections was performed on December 19, 2024 and January 21, 2025. This report includes the results of the annual inspection (see Appendix B), as well as all information required under 40 CFR Part 257.84(b)(2).

2. BACKGROUND

CWLP operates a series of ash and lime ponds east of the power plant complex in Springfield, Illinois. The ponds are operated under National Pollutant Discharge Elimination System (NPDES) Permit Number IL0024767.

The approximately 35.0 acre Lakeside Ash Pond (LAP) is primarily a diked embankment with some incising along the east perimeter and was placed into service prior to 1958. It was separated into four lime ponds, and a forty foot wide channel at the west border, that received sluiced Lakeside Ash. LAP ceased receiving ash in 2009. Until September 2023, two of lime ponds were active and two inactive. The channel at the west border, received Lakeside Ash until 2009 and from November 2022 until April 2023 it received sludge blowdown from the Generating Facilities Wastewater Treatment Plant. As of September 2023, LAP ceased receiving all flows and materials.

The second impoundment, the Dallman Ash Pond (DAP), which is a diked embankment, was

placed into service in approximately 1976 and is approximately 34.5 acres. Fly ash and bottom ash were sluiced to the Dallman Ash Pond with raw lake water. With the closure of the Dallman Generating Units 31, 32, and 33, the pond no longer receives ash.

Storm runoff collected by both the DAP and LAP flow into opposite sides of a Clarification Pond before being discharged to Sugar Creek at Outfall 004.

3. GEOMETRY OF THE STRUCTURES

The most recent change made to the CCR surface impoundment was a vertical expansion to the Lakeside Ash Pond system in 1988. The vertical expansion consists of berms built on top and inside of the existing embankments in such a way that the toe of the outer slope of the expansion berms match up with the top of the inner slope of the existing embankments. The vertical expansion berms are approximately ten feet in height.

A site map drawing containing an aerial photograph and approximate boundaries for all of the CWLP CCR Units, including the ash and lime ponds, is provided in Appendix A.

This report documents the annual inspection required under 40 CFR 257.83(b)(4)(ii). There are no apparent structural movements or deformations, nor is there any apparent reduction of the structural integrity of the facility.

4. INSTRUMENTATION

In May of 2024, four piezometers were installed in both CCR Units. Monthly potentiometric readings are recorded for the groundwater at each piezometer.

5. POND DEPTHS AND ELEVATIONS

On January 21, 2025, Lakeside Ash Pond and Lime Ponds had a measured water surface elevation of 556.30 feet. The Lakeside Ash Pond and Lime Ponds have typical depths ranging from 0-30 feet.

On January 21, 2025, the Dallman Ash Pond had a measured water surface elevation of 550.73 feet. The Dallman Ash Pond has typical depths ranging from 0 – 20 feet.

6. STORAGE CAPACITIES

The Lakeside Ash Pond and Lime Ponds have a combined approximate storage capacity of 1,330,000 cubic yards. The Dallman Ash Pond has an approximate storage capacity of 1,500,000 cubic yards.

7. VOLUMES

The Lakeside Ash Pond and Lime Ponds have a combined approximate impounded water volume of 900 cubic yards, and an approximate impounded CCR volume of 1,144,900 cubic yards. The Dallman Ash Pond has an approximate impounded water volume of 1,400 cubic yards, and an approximate impounded CCR volume of 1,175,820 cubic yards.

8. STRUCTURAL CONDITION OF CCR UNITS

Visual inspections of the CCR units are performed on a weekly basis in accordance with 40 CFR 257.83(a)(1)(i) for the purpose of identifying appearances of actual or potential structural weaknesses and other conditions which are disrupting or have the potential to disrupt the operation or safety of the CCR units or appurtenant structures.

In reports from the previous years, it was noted that signs of erosion had been periodically observed on the north and west outer berms of the Dallman Ash Pond in the forms of ruts and gullies that typically range from 6 – 24 inches deep. The erosion appeared to be caused by storm water flow collecting at points along the top of the berm before flowing down the outer slope in concentrated streams. Erosion of similar severity was discussed in the 2011 Site Assessment Final Report, which recommended that the erosion be repaired on an as-needed basis. In the fall of 2017, the tops of the berms of the Dallman Ash Ponds were regarded with a cross slope of approximately 1/4" per foot inward towards the ponds. This has allowed the rain water to be contained in the ponds and to not cause erosion on the slopes.

As previously reported, indications of seepage have been observed on outer berms of the Lakeside Ash Pond and lime ponds, between the top of the original pond berms and the vertical expansion berms. These range from staining or dampness to areas with noticeable drainage. Signs of seepage have been observed along the west berm, as well as isolated portions on the east and west portions of the north berm of the Lakeside Ash Pond. This seepage is discussed in the 2011 Site Assessment Final Report. During the fall of 2017, two 8" diameter perforated dual wall HDPE drain pipes were installed underneath the toe of the slope of the vertical extension. The water from these drain tiles outlets into the Clarification Pond. In July and August of 2019, lime removal was executed in the cannel on the west side of the Lakeside Ash Pond. Shortly after, the seepage was again visible at the vertical expansion joint. After a few weeks, the berm self-sealed. Only once during 2020 was seepage observed at the vertical expansion joint. In 2021, seepage was visible for a few weeks when the west lime pond was put into service. In the Summer of 2022 and again in the Winter of 2023, the north berm of the Lakeside Ash Pond was cleared of all brush and woody plants; multiple animal dens were filled and compacted. A couple of those were required to be refilled and recompacted. Two animal dens were also filled and compacted along this berm in January 2024. In 2024, similar minor events involving animal dens and seepage occurred. The dens were destroyed and filled and the seepage was directed to the Clarification Pond. The seepage only occurred after heavy spring rains.

No other visual indications of actual or potential structural weaknesses and other conditions that are disrupting or have the potential to disrupt the operation or safety of the CCR unit or appurtenant structures have been observed for the CCR units during any of the weekly inspections over the past year. Based on the review of historical aerial photographs, there were no observed indications of mass movement on any of the constructed berms for either unit.

9. OTHER CHANGES

In July of 2021, CWLP suspended the operation of Dallman Unit 33 and started the process of permanent plant retirement. CWLP no longer sluices fly ash and bottom ash to the Dallman Ash Pond.

In May of 2022, the discharge for the sump that collects surface water from the flood plain between the Lakeside Ash Pond and the Sugar Creek was diverted from the Dallman Ash Pond to report directly to the Clarification Pond.

In August of 2022, the leachate piping from Landfill #2 was diverted to from the Dallman Ash Pond to report directly to the Clarification Pond.

In November of 2022, the Generating Facilities Wastewater Treatment Plant clarifier blowdown was diverted from the Dallman Ash Pond to report directly to the southwest corner of the Lakeside Ash Pond.

In April of 2023, the Generating Facilities Wastewater Treatment Plant clarifier blowdown was diverted from the southwest corner of the Lakeside Ash Pond to the Water Purification Plant Sludge Tank, which flows to the new Lime Ponds.

In September of 2023, the lime sludge from the Water Purification Plant was rerouted to a new facility. At that time, the Lakeside Ash Pond ceased receiving all waste streams and materials.

In July of 2024, a dual run of 24-inch diameter pipe was installed, next to the existing run, to help drain the Dallman Ash Pond into the Clarification Pond. In October of 2024, a dual run of 24-inch diameter pipe was installed in the haul road in the middle of the Dallman Ash Pond. Both runs were installed to accommodate a 1,000 year storm.

10. STATEMENT

This annual inspection of the CWLP CCR surface impoundments was completed in accordance with the requirements under 40 CFR Part 257.83.

William E. Antonacci

William E. Antonacci, P.E.

1-22-25

Date

WILLIAM E. ANTONACCI
062-057915
LICENSED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS

APPENDIX A

Site Map

J:\S\Springfield CWLP\CWLP\dwg\PONDS.dwg Tab: FIG 2 Last Saved: January 13, 2016, by Mike Nguyen Plotted: Wednesday, January 13, 2016 9:25:34 AM

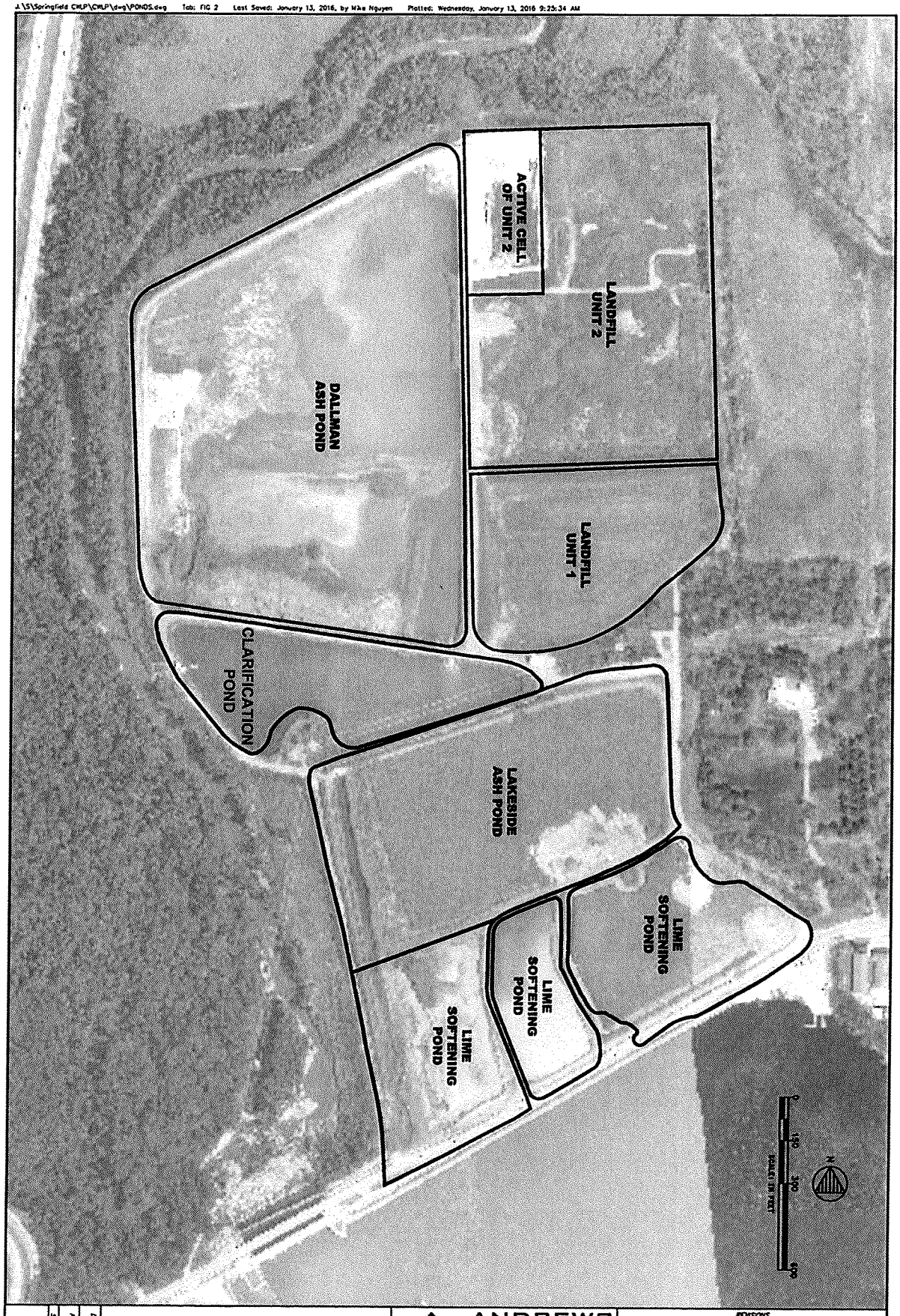


FIG. 1

CWLP COAL RESIDUAL COMBUSTION UNITS

PLANS PREPARED FOR

CITY, WATER, LIGHT & POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: JANUARY 2016

PROJECT ID: 150077.0011

SHEET NUMBER:

ANDREWS ENGINEERING, INC.
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 FAX (217) 787-9495
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, MO
PROFESSIONAL DESIGN ENGINEERING AND LAND SURVEYING FIRM #184.001541

APPROVED BY: PMV | DESIGNED BY: PMV | DRAWN BY: MPN

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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APPENDIX B

Annual Inspection Report

City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Date December 19, 2024 Time 9:00 AM

Inspector(s) / Position: BILL ANTONACCI

Site Conditions:

Sky: CLOUDY Ground Moisture: SATURATED Temperature: 32°F Precipitation: TRACE

Berms – Landfill Unit 2:

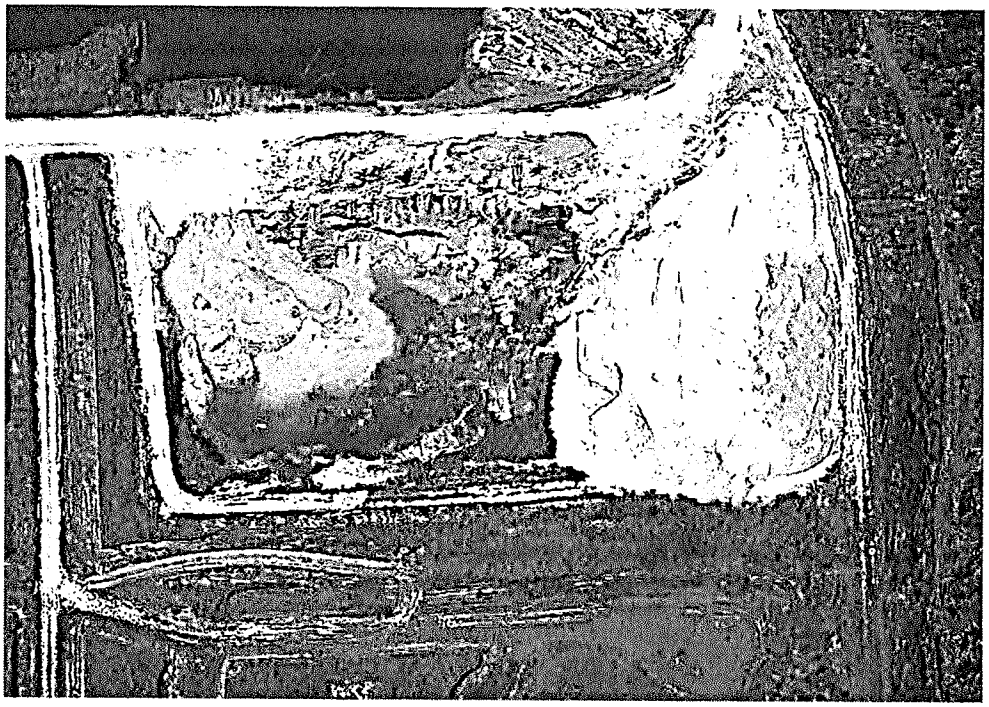
Conditions Limiting Visibility:

- ☐ Snow Cover
- ☒ Vegetation
- ☐ Other _____
- ☐ None

Observations:

- ☐ Erosion / Gullies
- ☐ Cracking / Sloughing
- ☐ Seeps / Damp Areas
- ☐ Signs of Creep
- ☐ Failed/eroded vegetation >100sq ft.
- ☐ Sudden drop in impoundment level
- ☐ Actual or potential structural weakness
- ☐ Improper operation of overtopping control
- ☐ Visible release
- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Berms – Dallman Ash Pond

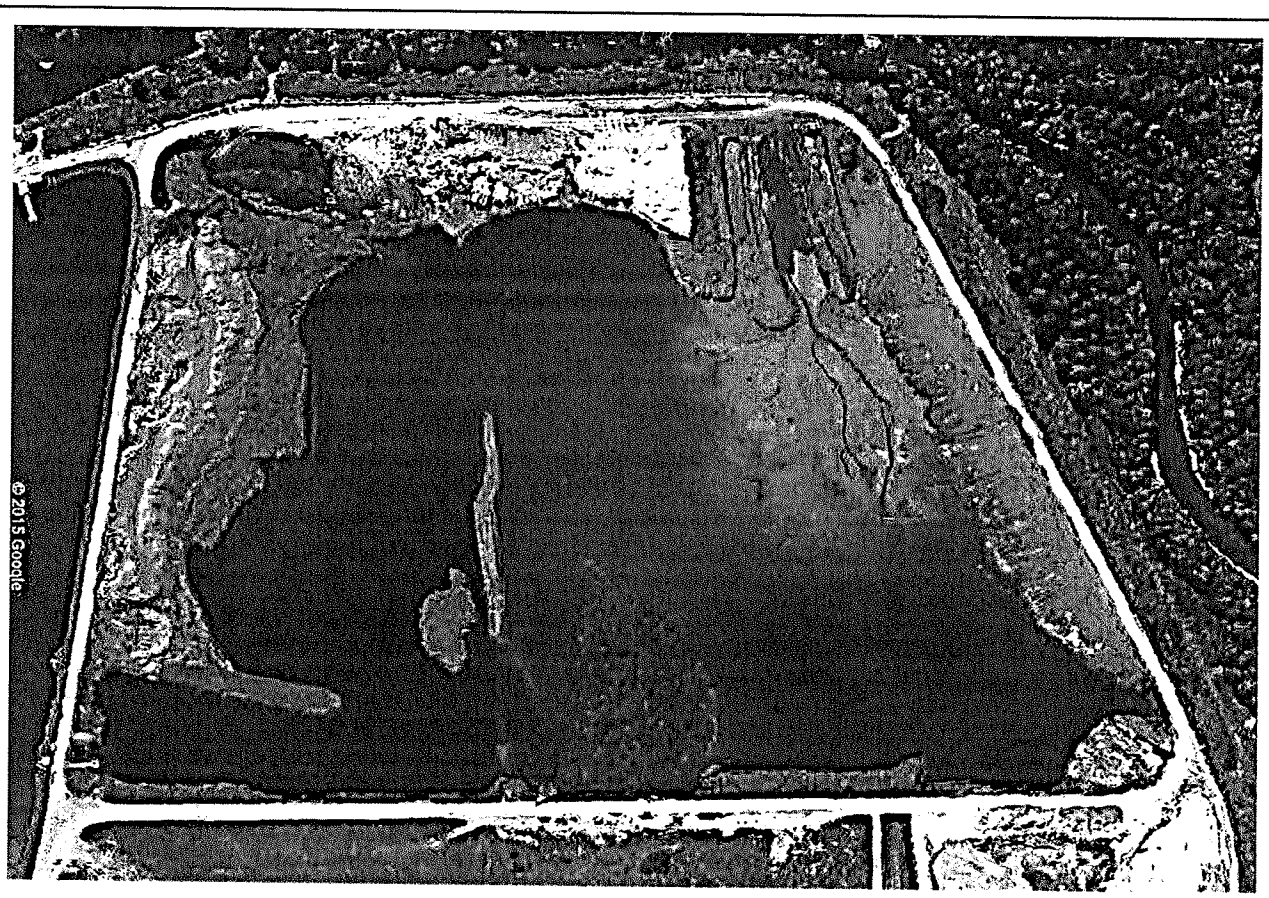
Conditions Limiting Visibility:

- ☐ Snow Cover
- ☒ Vegetation
- ☐ Other _____
- ☐ None

Observations:

- ☐ Erosion / Gullies
- ☐ Cracking / Sloughing
- ☐ Seeps / Damp Areas
- ☐ Signs of Creep
- ☐ Failed/eroded vegetation >100sq ft.
- ☐ Sudden drop in impoundment level
- ☐ Actual or potential structural weakness
- ☐ Improper operation of overtopping control
- ☐ Visible release
- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Berms – Lakeside Ash Pond

Conditions Limiting Visibility:

- ☐ Snow Cover
- ☒ Vegetation
- ☐ Other _____
- ☐ None

Observations:

- ☐ Erosion / Gullies
- ☐ Cracking / Sloughing
- ☐ Seeps / Damp Areas
- ☐ Signs of Creep
- ☐ Failed/eroded vegetation >100sq ft.
- ☐ Sudden drop in impoundment level
- ☐ Actual or potential structural weakness
- ☐ Improper operation of overtopping control
- ☐ Visible release
- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Berms – Lime Softening Ponds

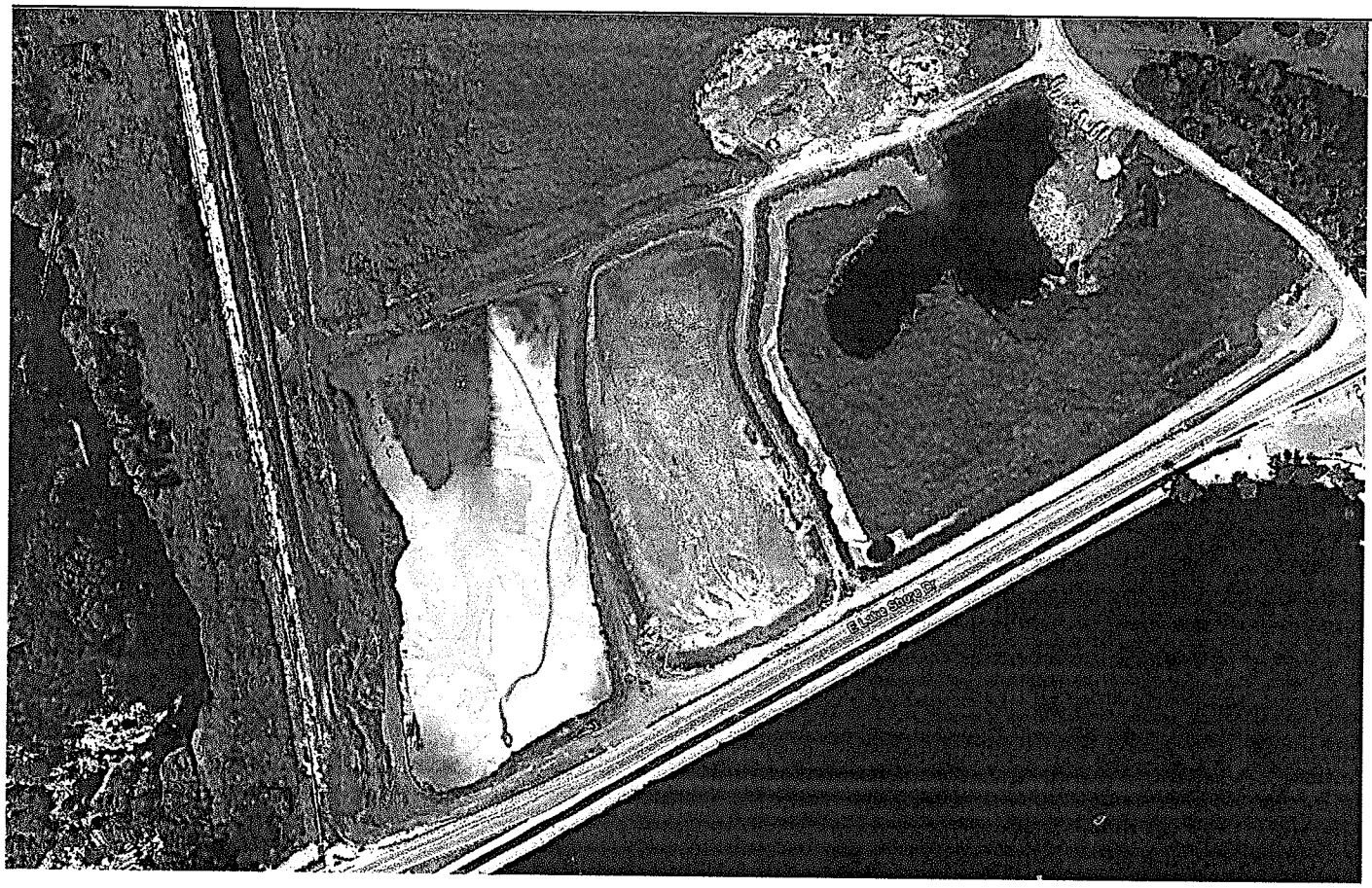
Conditions Limiting Visibility:

- ☐ Snow Cover
- ☒ Vegetation
- ☐ Other _____
- ☐ None

Observations:

- ☐ Erosion / Gullies
- ☐ Cracking / Sloughing
- ☐ Seeps / Damp Areas
- ☐ Signs of Creep
- ☐ Failed/eroded vegetation >100sq ft.
- ☐ Sudden drop in impoundment level
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- ☐ Improper operation of overtopping control
- ☐ Visible release
- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Areas of Previous Repair(s):

Location: LAKESIDE ASH POND - NORTH BERM FAR EAST SIDE

Description of Repair: Seepage occurs after spring rains. The seepage is contained in a ditch at the toe of the berm. The water then reports to the Clarification Pond. There were five or six rain events that caused seepage.

Effectiveness of Repair:

- ☐ Problem completely remedied
- ☒ Problem partially remedied (explain below):
- ☐ Problem not remedied (explain below):

The water is contained. Due to the minimal quantity the seepage has not worsened in 8 years. With Lakeside Ash Pond no longer receiving flows from the plant, the seepage flows have greatly decreased

- ☐ Progression of trouble into new area (explain):

Areas of Previous Repair(s):

Location: LAKESIDE ASH POND - NORTH BERM WEST HALF

Description of Repair: Animal dens are completely filled with clay and compacted. There were approximately five instances/ locations.

Effectiveness of Repair:

- ☒ Problem completely remedied
- ☐ Problem partially remedied (explain below):
- ☐ Problem not remedied (explain below):

- ☐ Progression of trouble into new area (explain):

City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Additional Notes:

APPENDIX B:

Annual Inspection Report for Coal Combustion Residuals Landfill



Annual Inspection Report
for
Coal Combustion Residuals Landfill

City Water, Light & Power
FGDS Disposal Facility- Unit 2
Springfield, Sangamon County, Illinois

January 2025

1. INTRODUCTION 1
2. BACKGROUND 1
3. GEOMETRY OF THE STRUCTURE 2
4. APPROXIMATE VOLUME OF CONTAINED CCR 2
5. STRUCTURAL CONDITION OF CCR UNIT 2
6. OTHER CHANGES 3

APPENDICES

Appendix A – Site Map
Appendix B – Annual Inspection Report

1. INTRODUCTION

City Water, Light and Power (CWLP) Flue Gas Desulfurization Sludge (FGDS) Development Landfill was issued Permit No. 1995-243-LFM on November 9, 1995. The active areas of Unit 2 have been developed and operated pursuant to the initial permit and subsequent permit modifications. Unit 2 is a non-hazardous special waste landfill that receives coal combustion residuals (CCR) .

An annual inspection was conducted as required by 40 CFR Part 257.84. This inspection included two items:

257.84(b)(1)(i) *A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., the results of inspections by a qualified person, and results of previous annual inspections); and*

257.84(b)(1)(ii) *A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.*

Unit 1 Landfill, which was filled to capacity and closed in February 1993, is not included in this report. Since the landfill ceased receiving CCR prior to October 19, 2015, the above items are not applicable to the Unit 1 landfill as specified under 40 CFR Part 257.50(d).

The following documents were reviewed:

- Engineering Design Drawings (August 1976 – January 2017)
- Phase 1 – Cell 3 Construction Report for the (CWLP) FGDS Landfill (September 1993)
- Weekly and Monthly Inspection Reports (October 2015 – December 2024)
- Historical Aerial Photographs and Contour Maps (April 1995 – April 2024)
- CCR Landfill Location Restrictions – Unstable Areas (March 2024)

The visual inspections were performed on December 19, 2024 and January 21, 2025. This report includes the results of the annual inspection (see Appendix B), as well as all information required under 40 CFR Part 257.84(b)(2).

2. BACKGROUND

The CWLP Flue Gas Desulfurization Sludge (FGDS) Disposal Facility – Unit 2, is an existing CCR landfill located in the City of Springfield, Sangamon County, Illinois. The landfill is used for the disposal of on-site generated flue gas desulfurization sludge, bottom ash, fly ash, lime sludge and other minor waste water treatment sludge.

The CCR landfill consists of 22.3 acres of disposal area divided into two units. The "in-place" net disposal capacity is estimated at 1,162,275 cubic yards, excluding daily, intermediate, and final cover, as well as protective soils. The maximum final elevation shall be approximately 608 feet above mean sea level.

CWLP has been permitted by the Illinois Environmental Protection Agency to landfill materials generated from power plant and water treatment activities into the CCR landfill since 1980. In February 1993, Unit 1 was filled to capacity and closed in accordance with 35 Illinois Administrative Code (Ill. Adm. Code) 807 regulations. The Unit 1 final cover system consists of a three-foot thick recompacted clay liner underlying a three-foot thick vegetative layer. Unit 2 was modified to meet the applicable requirements of 35 Ill. Adm. Code Parts 811 and 812 via Permit No. 1995-243-LFM.

In 2024, disposal to the landfill of Solids from the Generating Facilities Wastewater Treatment Plant began. Less than 1,000 cubic yards annually is expected.

3. GEOMETRY OF THE STRUCTURE

At the time of the inspection, one cell of Unit 2 has been constructed and is currently the only active portion of the CCR landfill. The active cell, which is approximately 3.5 acres, is rectangular and is located in the northwest portion of Unit 2. The constructed wall sections of Unit 2 bound the cell to the north and west. Constructed containment berms bound the cell to the east and south. A site map drawing containing an aerial photograph and approximate boundaries for all of the CWLP CCR Units, including Unit 2 and the active cell, can be found in Appendix A.

No changes to the geometry of the structure have been made since the initial construction of the active cell of the CCR landfill.

4. APPROXIMATE VOLUME OF CONTAINED CCR

The approximate volume of CCR contained in the unit at the time of the inspection is 85,100 cubic yards.

5. STRUCTURAL CONDITION OF CCR UNIT

The Report of Stability Analysis documents a detailed foundation and mass stability study, which was conducted prior to the approval of design and construction of the CCR landfill. The analysis considered site materials and design components and was compared to the minimum standards stated in 35 Ill. Adm. Code 811.304. These standards require that:

- The foundation of the landfill has sufficient strength to support the weight of the landfill and that loading will not cause a failure of the liner or leachate collection system;
- Settlement caused by the weight of the landfill will not cause a failure of the liner or leachate collection system;
- The landfill is designed to achieve the applicable safety factors against bearing capacity failure;
- The landfill is designed to achieve the applicable safety factors against slope failures;
- All applicable safety factors are met at both short and long term conditions; and

- The potential for earthquake or blast induced liquefaction is considered in regards to the stability and integrity of the landfill as well as to features outside of the landfill that could affect the landfill.

It was determined by the study that the minimum safety factors were exceeded for bearing capacity and slope stability for both short- and long-term conditions. Loading was not expected to cause failure of the liner or leachate collection system. Seismic risk was determined to be negligible for the site location.

Settlement was determined to be expected under the full weight of the landfill. However, it was determined that a properly constructed compacted clay liner would not fail under the expected settlement conditions, nor would settlement cause structural failure to the leachate collection piping. It was recommended that leachate collection points be located in the area of greatest expected settlement in order to mitigate the effects on the leachate collection process.

Visual inspections of the CCR landfill are performed on a weekly basis in accordance with 40 CFR 257.84(a)(1)(i) for the purpose of identifying appearances of actual or potential structural weaknesses and other conditions which are disrupting or have the potential to disrupt the operation or safety of the CCR unit. No visual indications of any such items have been observed for the CCR landfill during any of the weekly inspections over the past year.

The CCR Landfill Location Restrictions – Unstable Areas report prepared in 2024 included a Breakthrough, Pillar and Floor Failure Analysis and found any underground coal mine pillars would support the site with a safety factor exceeding 1.5.

6. OTHER CHANGES

No changes to the exterior berms of the facility have been made that would affect the stability or operation since the initial construction of the active cell of the CCR landfill.

In September of 2024, the south interior waste berm and southern half of the east interior waste berm were raised to match the northern half of the east interior waste berm.

7. STATEMENT

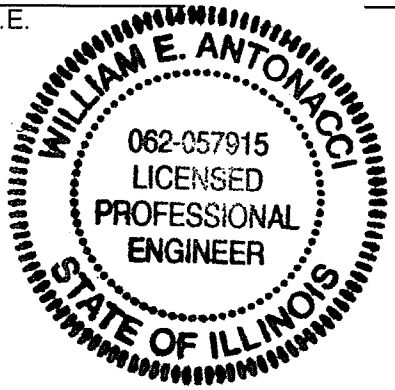
This annual inspection of the Unit 2 CCR landfill was completed in accordance with the requirements under 40 CFR Part 257.84.

William E. Antonacci

William E. Antonacci, P.E.

1-22-25

Date



APPENDIX A

Site Map

J:\S\Springfield CWLP\CWLP\dwg\PONDS.dwg Tab: FIG 2 Last Saved: January 13, 2016, by Mike Nguyen Plotted: Wednesday, January 13, 2016 9:25:34 AM

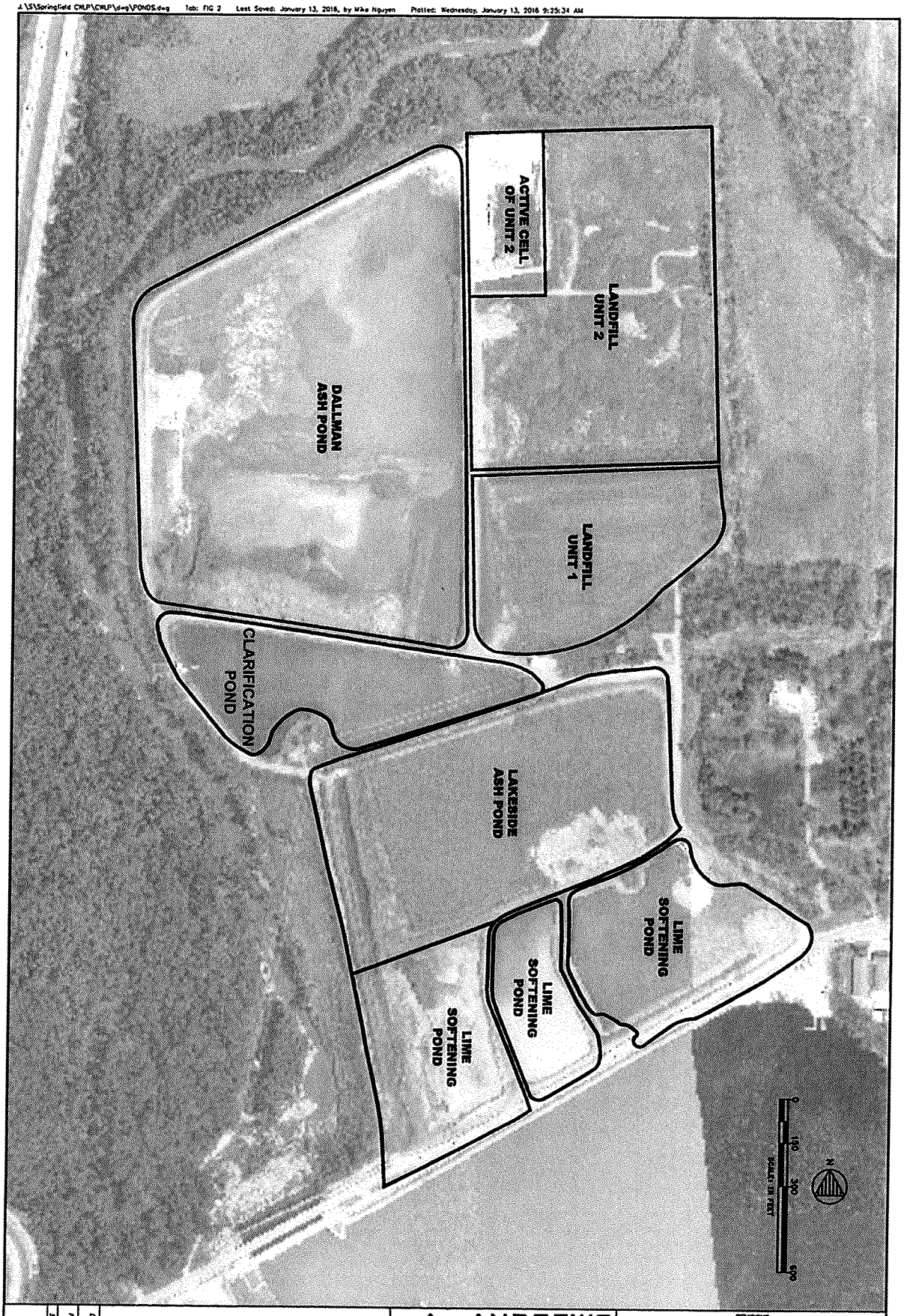


FIG. 1

CWLP COAL RESIDUAL COMBUSTION UNITS

PLANS PREPARED FOR

CITY, WATER, LIGHT & POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: JANUARY 2016

PROJECT #: 150077/0011

SHEET NUMBER:

ANDREWS ENGINEERING, INC.
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 FAX (217) 787-9495
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, MO
PROFESSIONAL DESIGN ENGINEERING AND LAND SURVEYING FIRM #184003541

APPROVED BY: PMV | DESIGNED BY: PMV | DRAWN BY: MPN

REVISIONS			
NO.	DATE	DESCRIPTION	BY

© 2016 Andrews Engineering, Inc.

APPENDIX B

Annual Inspection Report

City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Date December 19, 2024 Time 9:00 AM

Inspector(s) / Position: BILL ANTONACCI

Site Conditions:

Sky: CLOUDY Ground Moisture: SATURATED Temperature: 32°F Precipitation: TRACE

Berms – Landfill Unit 2:

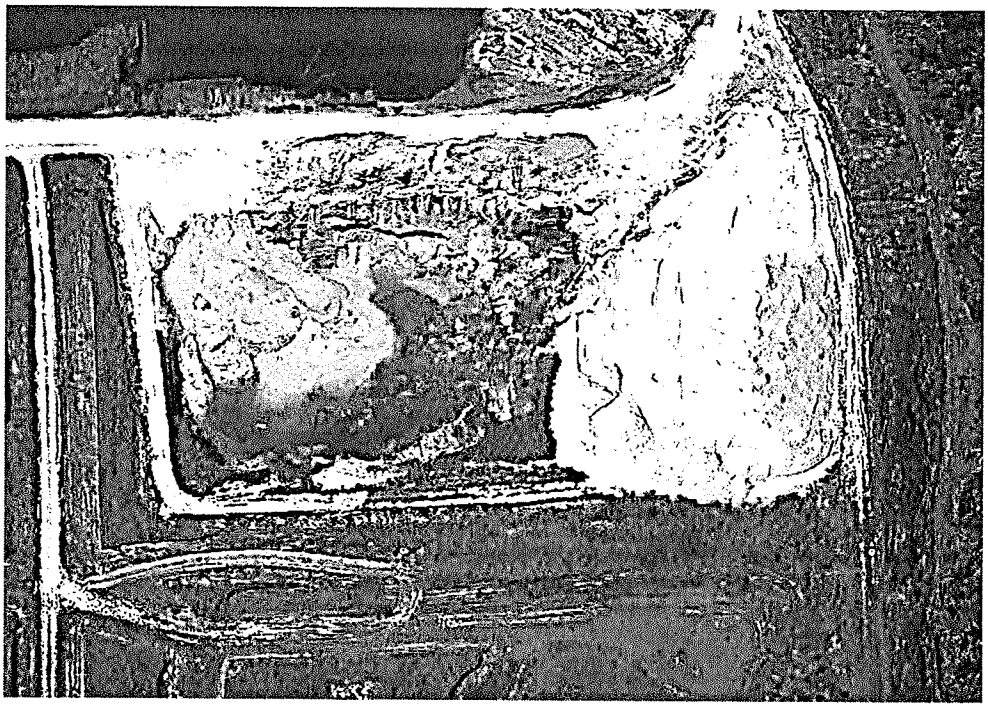
Conditions Limiting Visibility:

- ☐ Snow Cover
- ☒ Vegetation
- ☐ Other _____
- ☐ None

Observations:

- ☐ Erosion / Gullies
- ☐ Cracking / Sloughing
- ☐ Seeps / Damp Areas
- ☐ Signs of Creep
- ☐ Failed/eroded vegetation >100sq ft.
- ☐ Sudden drop in impoundment level
- ☐ Actual or potential structural weakness
- ☐ Improper operation of overtopping control
- ☐ Visible release
- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Berms – Dallman Ash Pond

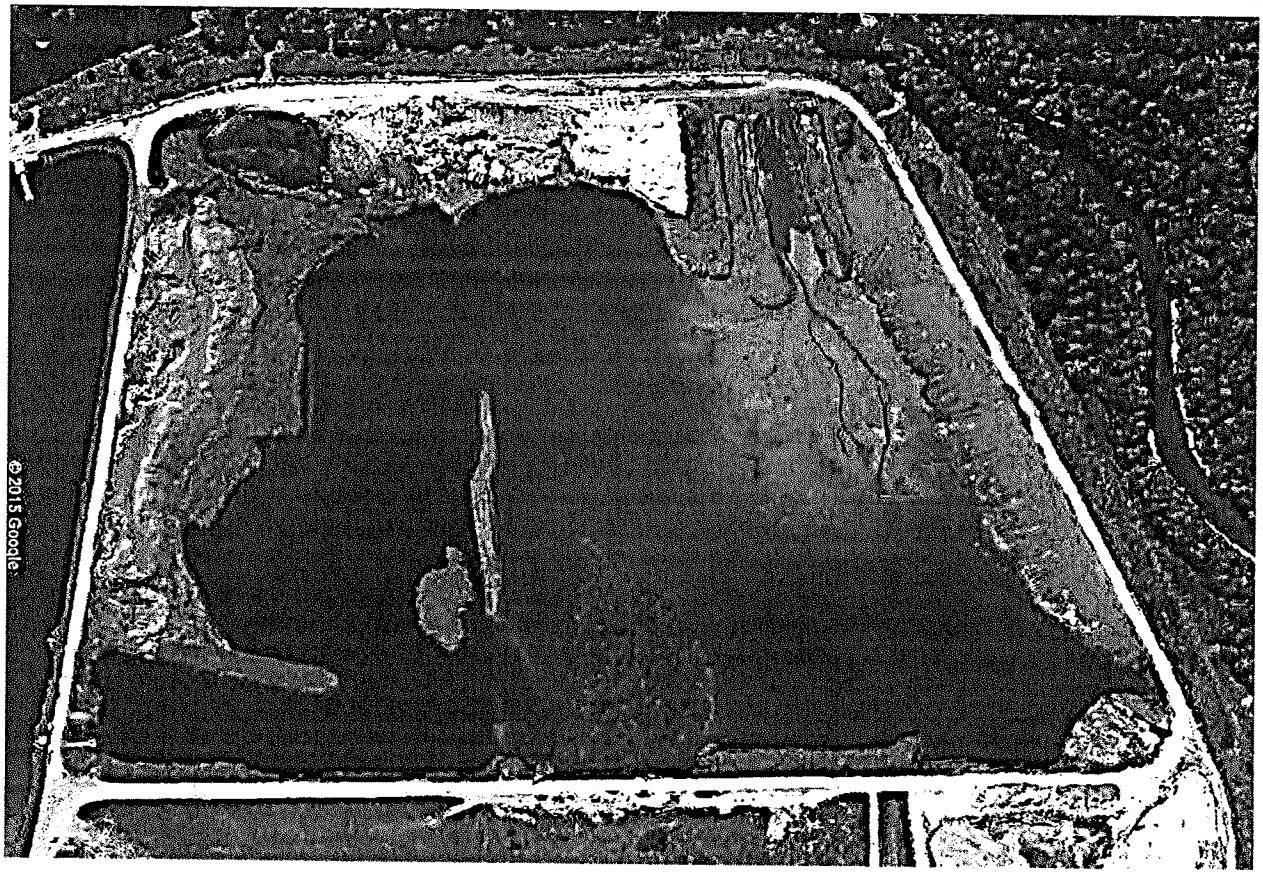
Conditions Limiting Visibility:

- ☐ Snow Cover
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- ☐ Other _____
- ☐ None

Observations:

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- ☐ Visible release
- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Berms – Lakeside Ash Pond

Conditions Limiting Visibility:

- ☐ Snow Cover
- ☒ Vegetation
- ☐ Other _____
- ☐ None

Observations:

- ☐ Erosion / Gullies
- ☐ Cracking / Sloughing
- ☐ Seeps / Damp Areas
- ☐ Signs of Creep
- ☐ Failed/eroded vegetation >100sq ft.
- ☐ Sudden drop in impoundment level
- ☐ Actual or potential structural weakness
- ☐ Improper operation of overtopping control
- ☐ Visible release
- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Berms – Lime Softening Ponds

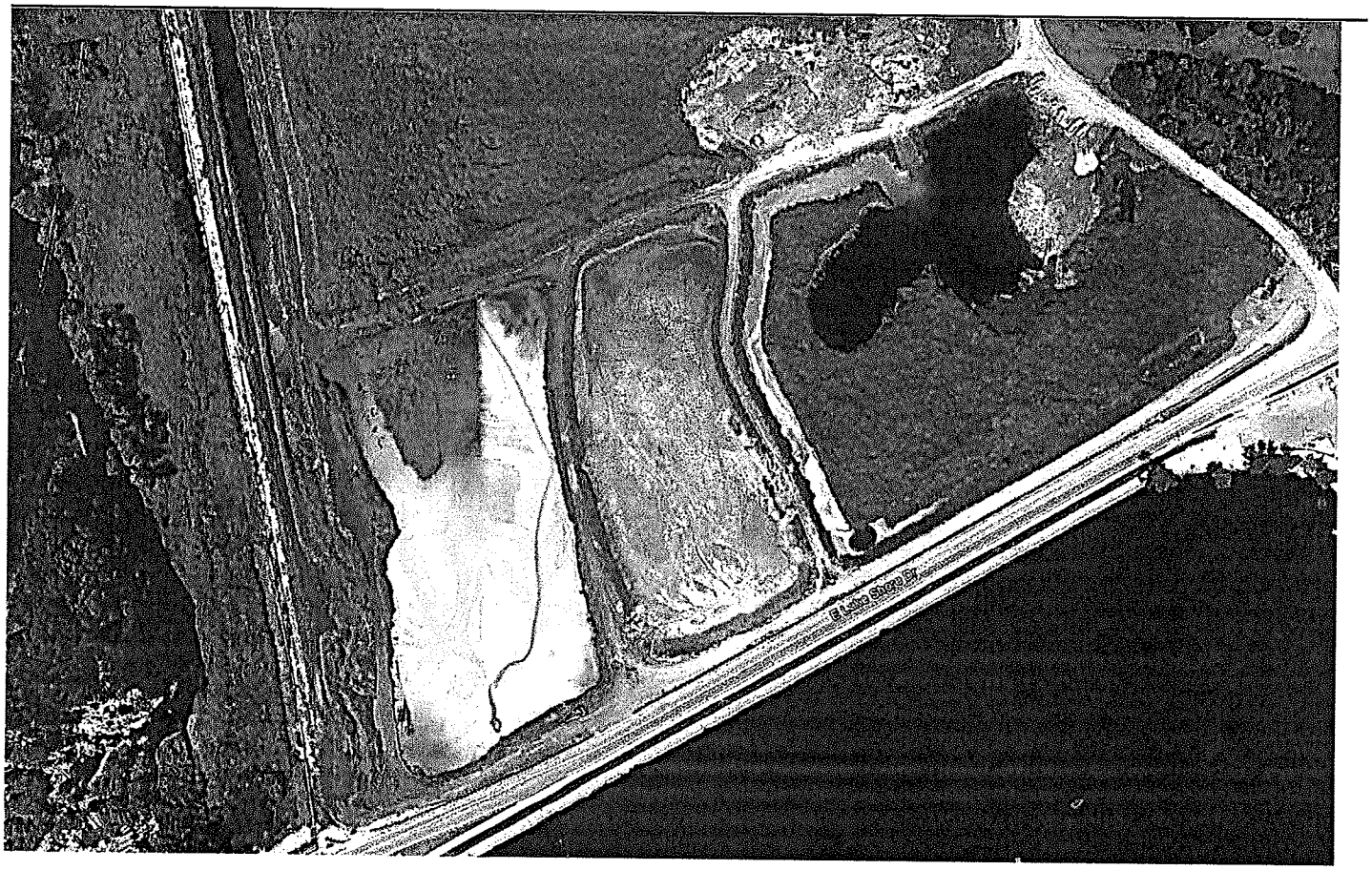
Conditions Limiting Visibility:

- ☐ Snow Cover
- ☒ Vegetation
- ☐ Other _____
- ☐ None

Observations:

- ☐ Erosion / Gullies
- ☐ Cracking / Sloughing
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- ☐ Sudden drop in impoundment level
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- ☒ No observed problems

Describe findings. Identify locations on attached map. Attach additional pages if necessary.



City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Areas of Previous Repair(s):

Location: LAKESIDE ASH POND - NORTH BERM FAR EAST SIDE

Description of Repair: Seepage occurs after spring rains. The seepage is contained in a ditch at the toe of the berm. The water then reports to the Clarification Pond. There were five or six rain events that caused seepage.

Effectiveness of Repair:

- ☐ Problem completely remedied
- ☒ Problem partially remedied (explain below):
- ☐ Problem not remedied (explain below):

The water is contained. Due to the minimal quantity the seepage has not worsened in 8 years. With Lakeside Ash Pond no longer receiving flows from the plant, the seepage flows have greatly decreased

- ☐ Progression of trouble into new area (explain):

Areas of Previous Repair(s):

Location: LAKESIDE ASH POND - NORTH BERM WEST HALF

Description of Repair: Animal dens are completely filled with clay and compacted. There were approximately five instances/ locations.

Effectiveness of Repair:

- ☒ Problem completely remedied
- ☐ Problem partially remedied (explain below):
- ☐ Problem not remedied (explain below):

- ☐ Progression of trouble into new area (explain):

City Water, Light, and Power
Coal Combustion Residual Units

35 IAC 845 Annual Inspection Form

Additional Notes:

APPENDIX C:
Culvert Inspection



Figure 1: Dallman to Clarification Culvert 1

Photo by: Eric Staley (June 2025)



Figure 2: Dallman to Clarification Culvert 2

Photo by: Eric Staley (June 2025)



Figure 3: Dallman to Clarification Culvert 3

Photo by: Eric Staley (June 2025)



Figure 4: Dallman to Clarification Culvert 4

Photo by: Eric Staley (June 2025)



Figure 5: Lime Pond 2 to Lime Pond 1

Photo by: Eric Staley (June 2025)

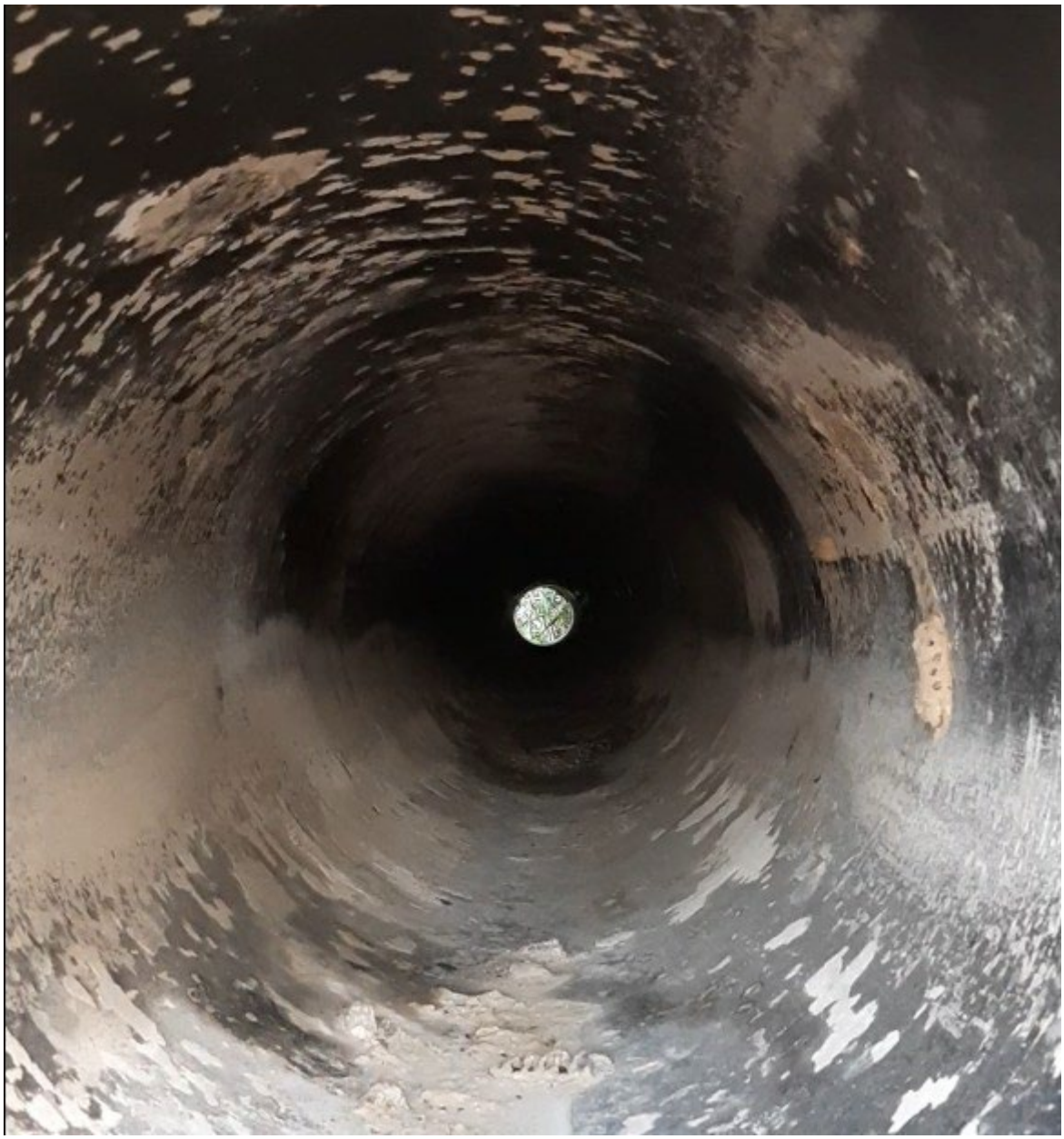


Figure 6: Lime Pond 2 to Center Channel

Photo by: Eric Staley (June 2025)



Figure 7: Lime Pond 1 to West Setting Channel

Photo by: Eric Staley (June 2025)



Figure 8: Outfall 004 Discharging from Clarification Pond

Photo by: Eric Staley (July 2025)



Figure 9: West Settling Channel to Clarification Pond

Photo by: Eric Staley (June 2025)

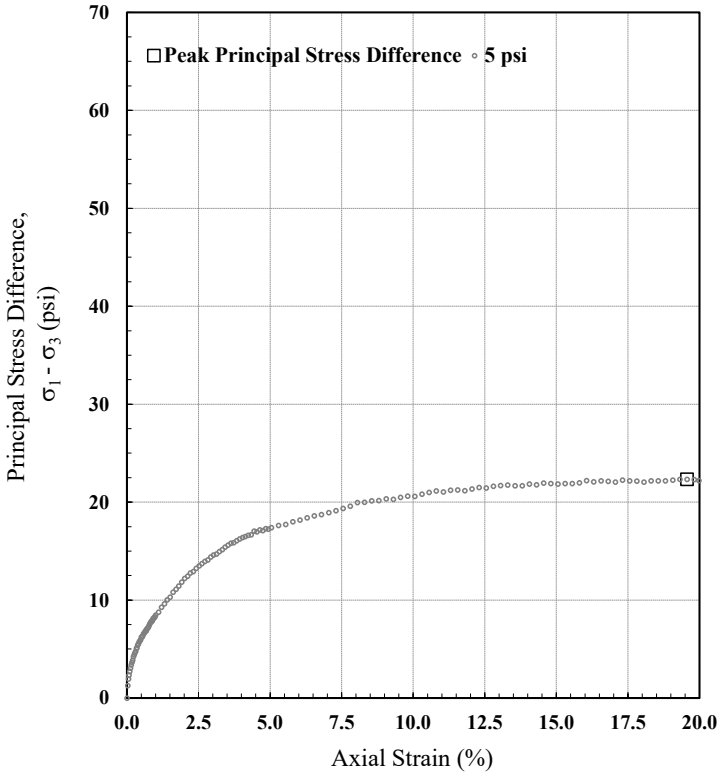
APPENDIX D:
Laboratory Analysis

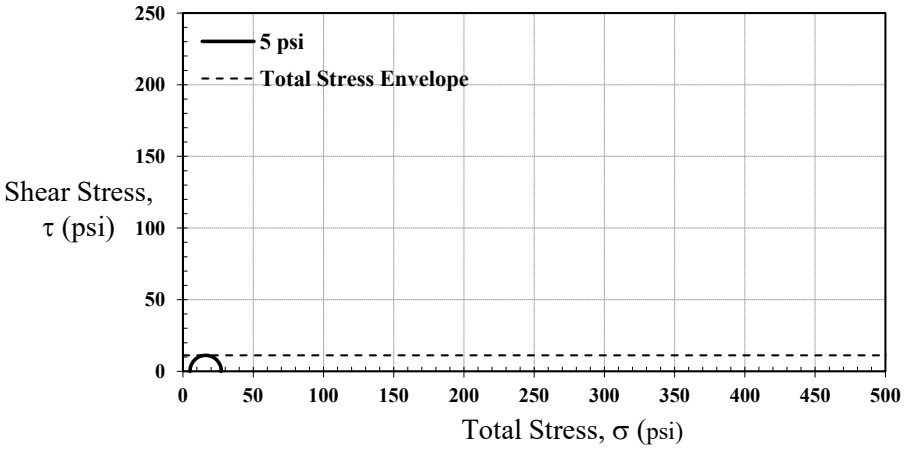
APPENDIX E-1:
Liquefaction Analysis at Toe of Embankment

Unconsolidated-Undrained (Q) Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample: B-4-1 (10-12_ft)

TRI Log #: 25-02906.3
Test Method: ASTM D2850





Test Parameters	
Minor Principal Stress (psi)	5.0
Rate of Strain (%/hr)	60

Initial Properties	
Avg. Diameter (in)	2.84
Avg. Height (in)	6.21
Avg. Water Content (%)	24.8
Bulk Density (pcf)	122.5
Dry Density (pcf)	98.2
Saturation (%)	91.0
Void Ratio	0.75
Specific Gravity (Assumed)	2.75

At Failure - Maximum Deviator Stress	
Axial Strain at Failure (%)	19.6
Minor Total Stress (psi)	5.0
Major Total Stress (psi)	27.3
Principal Stress Diff. (psi)	22.3

Total Stress Envelope	
Friction Angle (deg)	0
Undrained Shear Strength, S_u (psi)	11.2
S_u / σ_3	2.2

	Failure Type(s)
	Bulging - Middle
	Shear Plane - Angled
	Shear Plane - Vertical
	Matrix Failure - Crumble/disintegrate
X	Barrel Shape - Uniform Bulge
	End Failure
	Fracture/Bedding - Weak Planes
	Multiple Shear Planes
	Void Failure

Note: The calculated value of specimen saturation was less than 95%. The Mohr failure envelope was taken as a horizontal straight line, but noting that the calculated value of saturation indicates a partially saturated specimen.

Kelby Broussard 6/9/2025
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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9063 BEE CAVES RD. – AUSTIN, TX 78733 – USA | PH: 800.880.TEST OR 512.263.2101

Unconsolidated-Undrained (Q) Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample: B-4-1 (10-12_ft)

TRI Log #: 25-02906.3
Test Method: ASTM D2850

Pre-Shear Specimen	Post-Shear Specimen
	

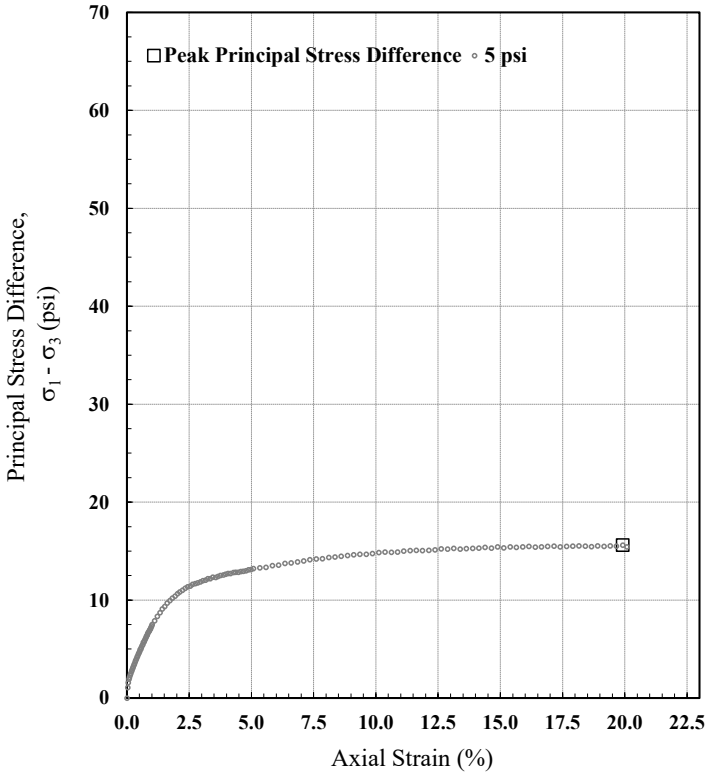
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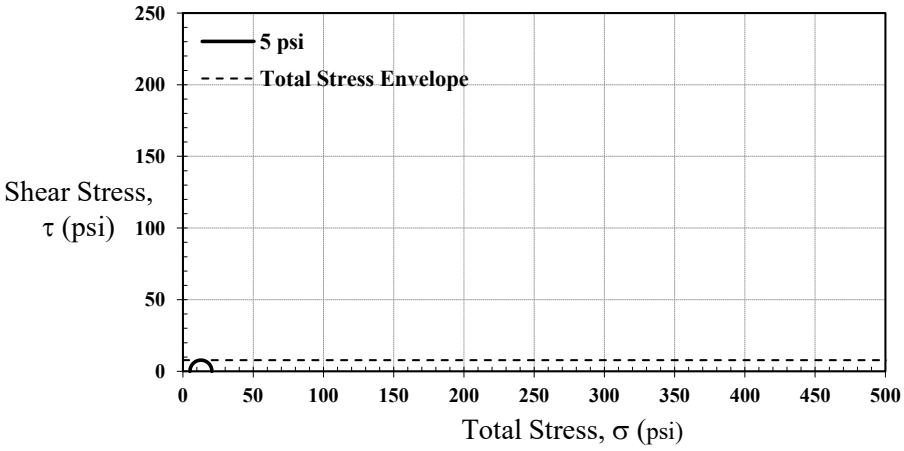
TRI Environmental, Inc.
9063 Bee Caves Rd. – Austin, TX 78733 – USA | Ph: 800.880.TEST or 512.263.2101

Unconsolidated-Undrained (Q) Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample: B-4-2 (24-26_ft)

TRI Log #: 25-02906.4
Test Method: ASTM D2850





Test Parameters	
Minor Principal Stress (psi)	5.0
Rate of Strain (%/hr)	60

Initial Properties	
Avg. Diameter (in)	2.85
Avg. Height (in)	6.18
Avg. Water Content (%)	25.9
Bulk Density (pcf)	123.7
Dry Density (pcf)	98.2
Saturation (%)	95.3
Void Ratio	0.75
Specific Gravity (Assumed)	2.75

At Failure - Maximum Deviator Stress	
Axial Strain at Failure (%)	19.9
Minor Total Stress (psi)	5.0
Major Total Stress (psi)	20.6
Principal Stress Diff. (psi)	15.6

Total Stress Envelope	
Friction Angle (deg)	0
Undrained Shear Strength, S_u (psi)	7.8
S_u / σ_3	1.6

	Failure Type(s)
	Bulging - Middle
	Shear Plane - Angled
	Shear Plane - Vertical
	Matrix Failure - Crumble/disintegrate
X	Barrel Shape - Uniform Bulge
	End Failure
	Fracture/Bedding - Weak Planes
	Multiple Shear Planes
	Void Failure

Note: The calculated value of specimen saturation was approximately 95% or greater. The Mohr failure envelope was taken as a horizontal straight line.

Kelby Broussard 6/9/2025
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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Unconsolidated-Undrained (Q) Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample: B-4-2 (24-26_ft)

TRI Log #: 25-02906.4
Test Method: ASTM D2850

Pre-Shear Specimen	Post-Shear Specimen
	

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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9063 BEE CAVES RD. – AUSTIN, TX 78733 – USA | PH: 800.880.TEST OR 512.263.2101

Consolidated-Undrained Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample B-6-1 (7-8_ft)

TRI Log #: 25-02906.8
Test Method: ASTM D4767

Specimens				
Identification	1	2	3	4
Depth/Elev. (ft)	-	-	-	-
Eff. Consol. Stress (psi)	5.0	10.0	28.0	-
Initial Specimen Properties				
Avg. Diameter (in)	2.03	2.03	2.00	-
Avg. Height (in)	4.31	4.23	4.32	-
Avg. Water Content (%)	20.1	20.8	20.4	-
Bulk Density (pcf)	125.0	127.4	122.3	-
Dry Density (pcf)	104.1	105.5	101.6	-
Specific Gravity (Assumed)	2.75			
Saturation (%)	85.2	91.3	81.3	-
Void Ratio, n	0.65	0.63	0.69	-
B-Value, End of Saturation	0.96	0.96	0.97	-

Test Setup	
Specimen Condition	Undisturbed / Intact
Specimen Preparation	Trimmed
Mounting Method	Wet
Consolidation	Isotropic

Post-Consolidation / Pre-Shear				
Void Ratio	0.64	0.60	0.62	-

Shear / Post-Shear				
Rate of Strain (%/hr)	1.00	1.00	1.00	-
Avg. Water Content (%)	21.3	19.7	24.5	-

At Failure								
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$				Ratio, $(\sigma_1'/\sigma_3')_{max}$			
Axial Strain at Failure (%), $\varepsilon_{a,f}$	15.0	15.0	7.0	-	2.4	4.1	4.6	-
Minor Effective Stress (psi), $\sigma_3'_f$	10.4	14.4	15.8	-	3.8	7.6	14.9	-
Principal Stress Difference (psi), $(\sigma_1-\sigma_3)_f$	29.2	34.4	35.8	-	15.5	21.7	34.8	-
Pore Water Pressure, Δu_f (psi)	-5.5	-4.4	12.2	-	1.3	2.3	13.1	-
Major Effective Stress (psi), $\sigma_1'_f$	39.6	48.8	51.6	-	19.2	29.3	49.7	-
Secant Friction Angle (degrees)	35.7	33.0	32.1	-	42.3	36.0	32.6	-
Effective Friction Angle (degrees)	22.5				27.7			
Effective Cohesion (psi)	5.5				2.6			

Note: The presented M-C parameters are based on a linear regression in modified stress space, across all assigned effective consolidation stresses. This fit does not purported to capture typical curvature of envelopes that may, in particular, be observed across broader range in effective stresses. Please note that the stresses associated with peak principal stress ratio and peak principal stress difference are presented in tabular form on the first page of the report. There are alternate interpretations to theses two failure criterion including but not limited to strain compatibility and post-peak.

Jeffrey A. Kuhn , Ph.D., P.E., 6/11/2025
Analysis & Quality Review/Date

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Consolidated-Undrained Triaxial Compression

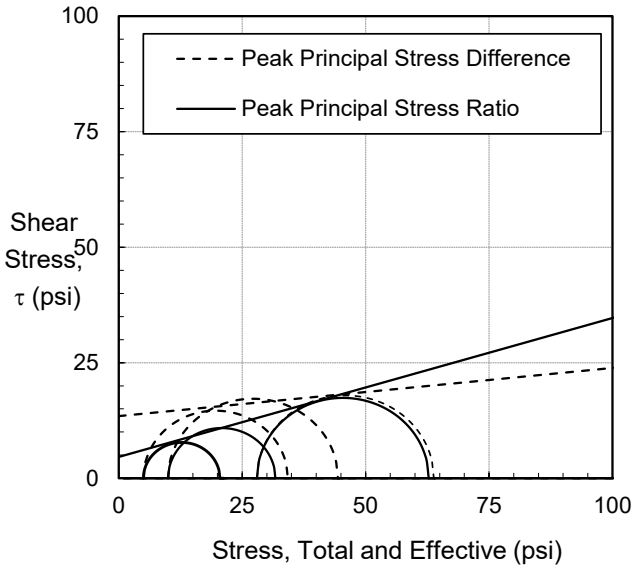
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Project: 240338/0014 CWLP-Ash Ponds
Sample B-6-1 (7-8_ft)

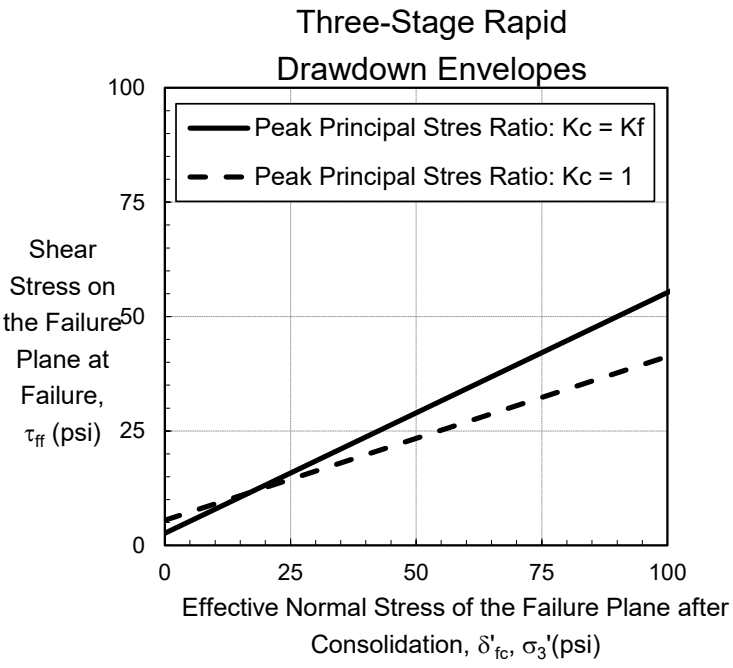
TRI Log #: 25-02906.8
Test Method: ASTM D4767

R / "Total Stress" Envelope			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	ϕ_R	5.9	16.7
Cohesion (psi)	c_R	13.4	4.6

Kc = Kf Envelope, Effective Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	ϕ'	22.5	27.7
Effective Cohesion (psi)	c'	5.5	2.6

Kc = 1 (τ_{ff} vs σ'_{fc}) Envelope, Total Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	$d_{Kc=1}$	6.1	19.7
Cohesion (psi)	$\psi_{Kc=1}$	13.8	5.5





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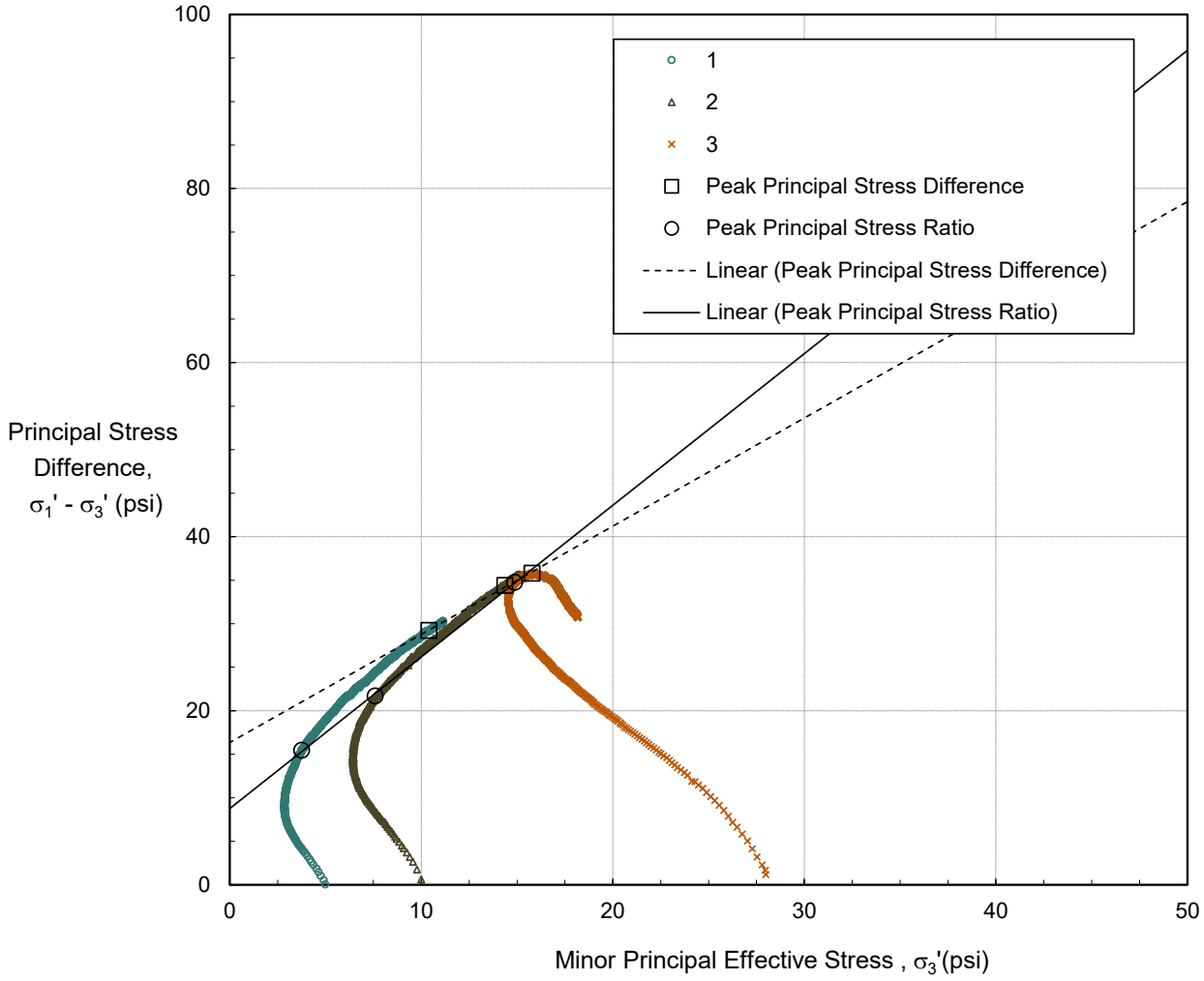
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Consolidated-Undrained Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample B-6-1 (7-8_ft)

TRI Log #: 25-02906.8
Test Method: ASTM D4767

Modified Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	22.5	27.7
Effective Cohesion (psi)	5.5	2.6

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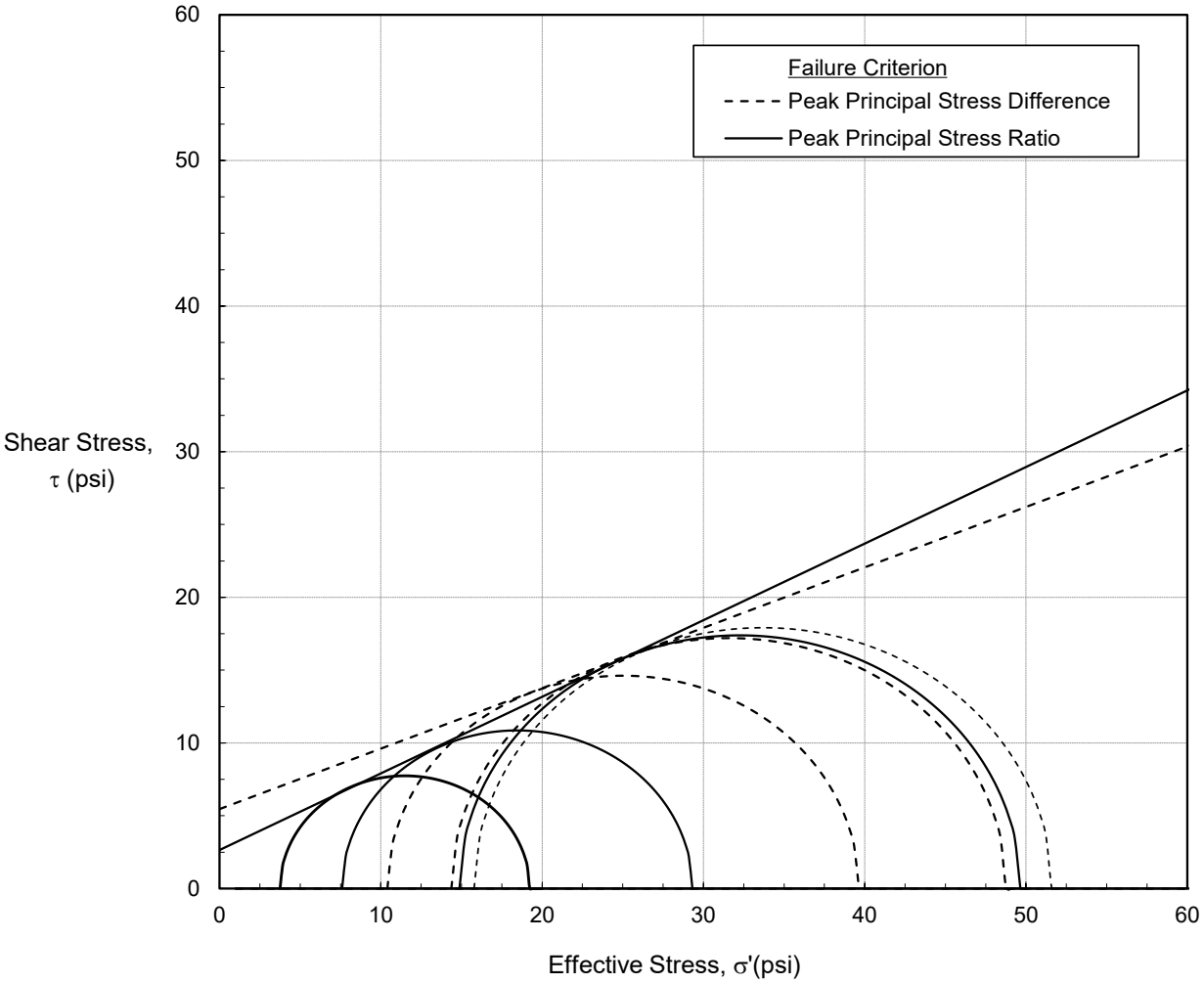
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Consolidated-Undrained Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample B-6-1 (7-8_ft)

TRI Log #: 25-02906.8
Test Method: ASTM D4767

Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	22.5	27.7
Effective Cohesion (psi)	5.5	2.6

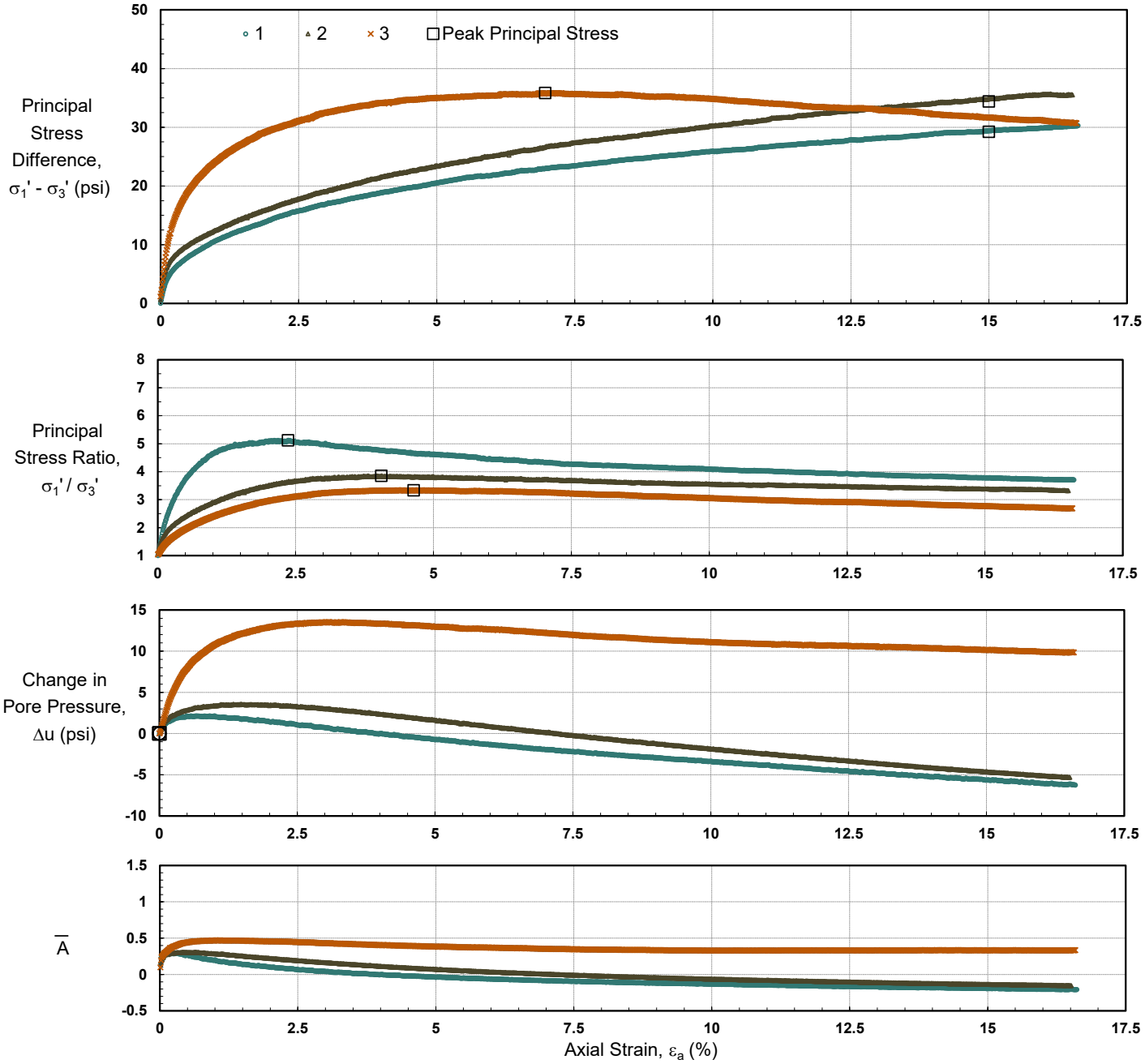
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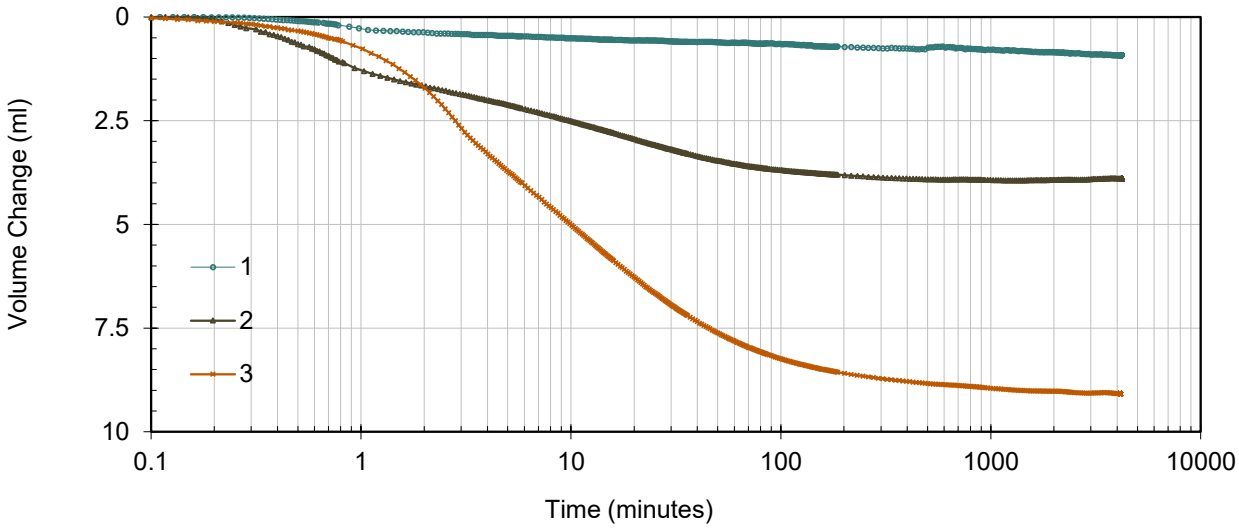
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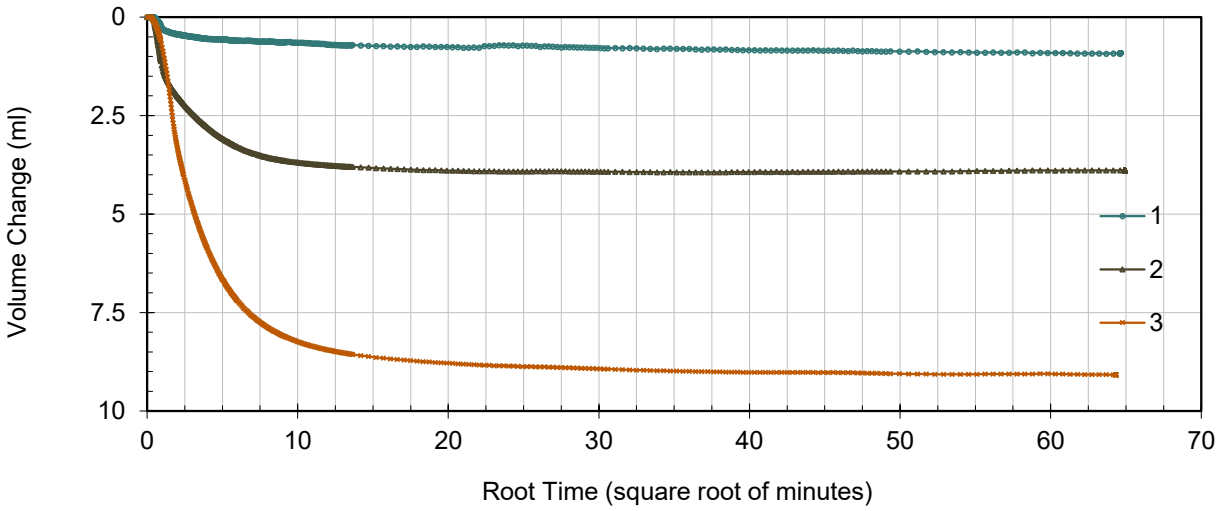
Consolidated-Undrained Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample B-6-1 (7-8_ft)

TRI Log #: 25-02906.8
Test Method: ASTM D4767

Consolidation





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Consolidated-Undrained Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample: B-6/2 (8-9_ft)

TRI Log #: 25-02906.9
Test Method: ASTM D4767

Specimens				
Identification	1	2	3	4
Depth/Elev. (ft)	-	-	-	-
Eff. Consol. Stress (psi)	5.0	10.0	28.0	-
Initial Specimen Properties				
Avg. Diameter (in)	2.03	2.07	2.02	-
Avg. Height (in)	4.92	5.02	4.88	-
Avg. Water Content (%)	22.0	18.6	18.5	-
Bulk Density (pcf)	125.8	128.9	121.6	-
Dry Density (pcf)	103.2	108.7	102.6	-
Specific Gravity (Assumed)	2.75			
Saturation (%)	91.1	88.2	75.8	-
Void Ratio, n	0.66	0.58	0.67	-
B-Value, End of Saturation	0.97	0.99	0.97	-

Test Setup	
Specimen Condition	Undisturbed / Intact
Specimen Preparation	Trimmed
Mounting Method	Wet
Consolidation	Isotropic

Post-Consolidation / Pre-Shear				
Void Ratio	0.66	0.56	0.59	-

Shear / Post-Shear				
Rate of Strain (%/hr)	0.50	0.50	0.50	-
Avg. Water Content (%)	20.7	20.7	19.8	-

At Failure								
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$				Ratio, $(\sigma_1'/\sigma_3')_{max}$			
Axial Strain at Failure (%), $\varepsilon_{a,f}$	15.0	15.0	15.0	-	5.5	6.0	11.9	-
Minor Effective Stress (psi), $\sigma_3'_f$	8.5	16.1	17.5	-	3.8	8.1	15.4	-
Principal Stress Difference (psi), $(\sigma_1-\sigma_3)_f$	25.5	41.4	46.7	-	14.4	23.8	41.9	-
Pore Water Pressure, Δu_f (psi)	-3.5	-6.1	10.5	-	1.2	1.9	12.6	-
Major Effective Stress (psi), $\sigma_1'_f$	34.0	57.6	64.2	-	18.2	31.9	57.3	-
Secant Friction Angle (degrees)	36.9	34.2	34.8	-	40.7	36.5	35.2	-
Effective Friction Angle (degrees)	32.0				32.9			
Effective Cohesion (psi)	1.7				1.3			

Note: The presented M-C parameters are based on a linear regression in modified stress space, across all assigned effective consolidation stresses. This fit does not purported to capture typical curvature of envelopes that may, in particular, be observed across broader range in effective stresses. Please note that the stresses associated with peak principal stress ratio and peak principal stress difference are presented in tabular form on the first page of the report. There are alternate interpretations to theses two failure criterion including but not limited to strain compatibility and post-peak.

Jeffrey A. Kuhn , Ph.D., P.E., 6/17/2025
Analysis & Quality Review/Date

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Project: 240338/0014 CWLP-Ash Ponds
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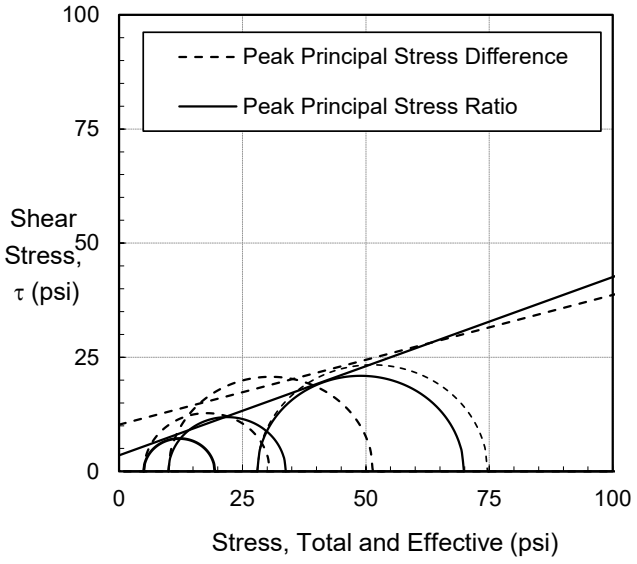
TRI Log #: 25-02906.9
Test Method: ASTM D4767

R / "Total Stress" Envelope			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	ϕ_R	15.9	21.3
Cohesion (psi)	c_R	10.2	3.5

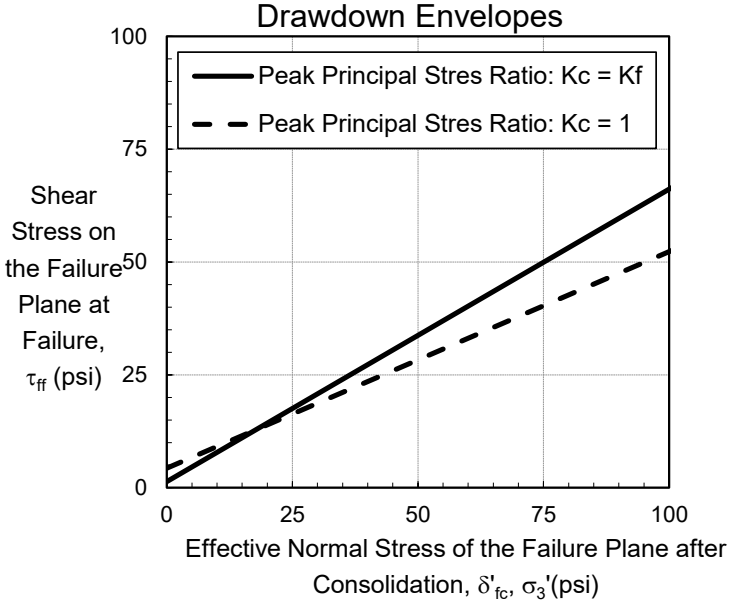
Kc = Kf Envelope, Effective Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	ϕ'	32.0	32.9
Effective Cohesion (psi)	c'	1.7	1.3

Kc = 1 (τ_{ff} vs σ'_{fc}) Envelope, Total Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	$d_{Kc=1}$	17.7	25.6
Cohesion (psi)	$\psi_{Kc=1}$	11.5	4.3

R / "Total Stress" Envelope



Three-Stage Rapid Drawdown Envelopes



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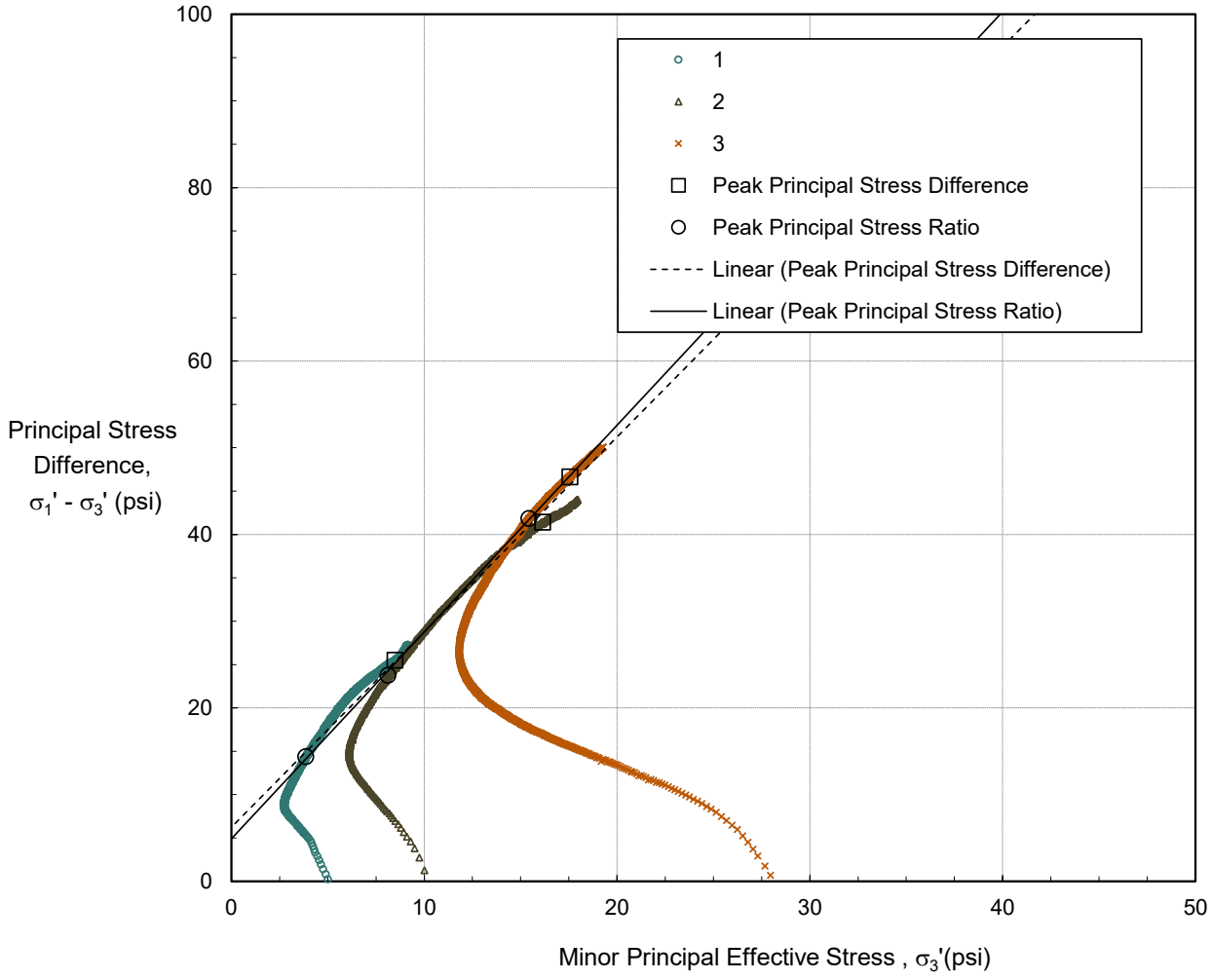
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Consolidated-Undrained Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample: B-6/2 (8-9_ft)

TRI Log #: 25-02906.9
Test Method: ASTM D4767

Modified Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	32.0	32.9
Effective Cohesion (psi)	1.7	1.3

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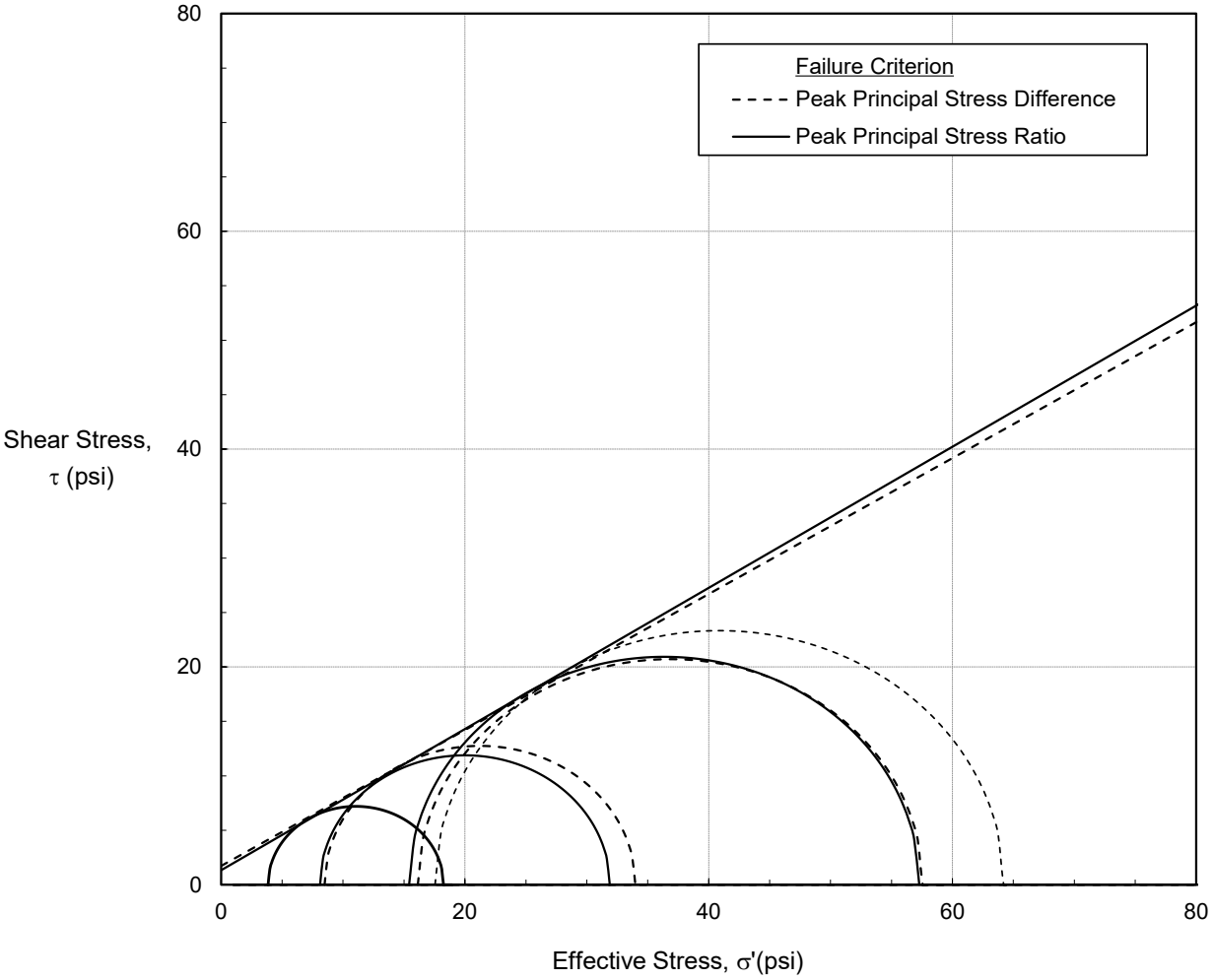
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TRI Log #: 25-02906.9
Test Method: ASTM D4767

Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	32.0	32.9
Effective Cohesion (psi)	1.7	1.3

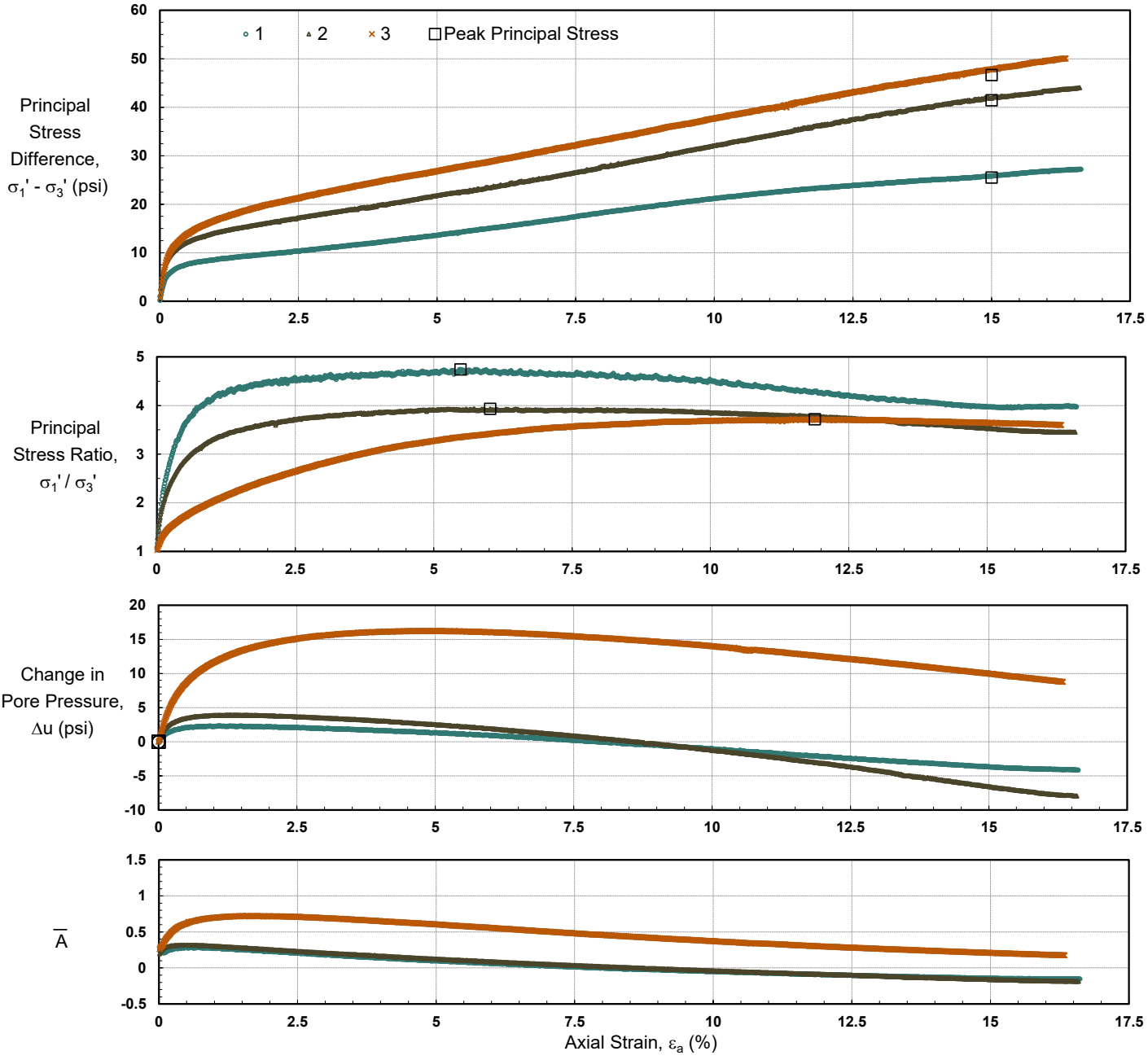
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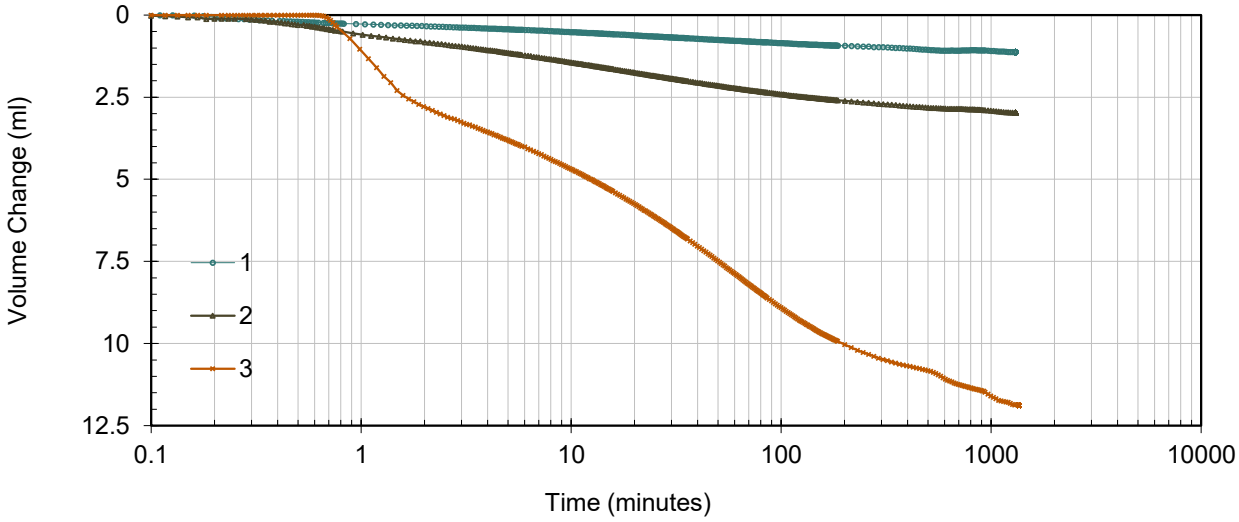
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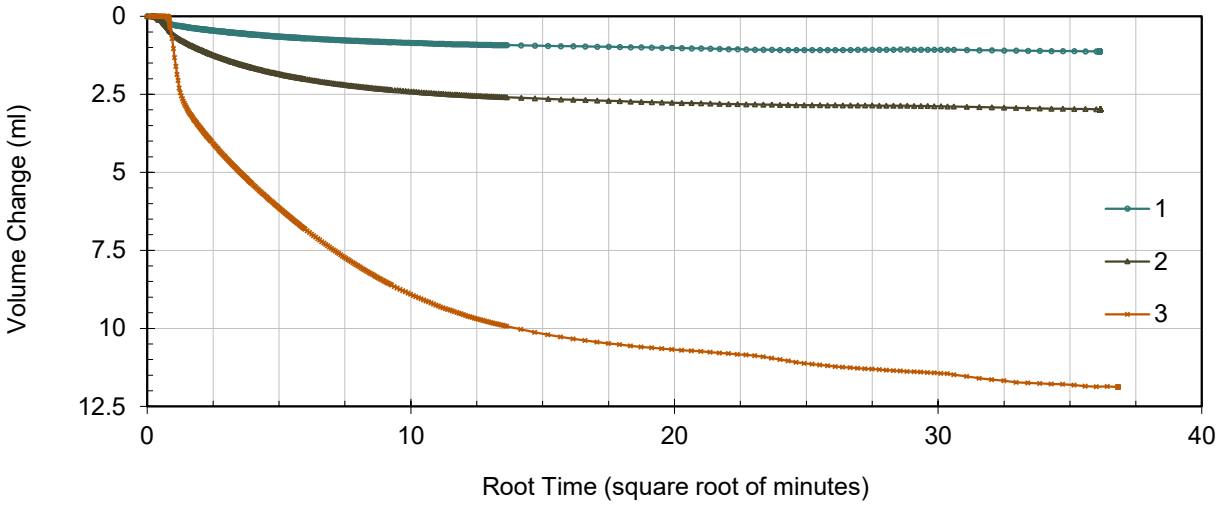
Consolidated-Undrained Triaxial Compression

Client: Andrews Engineering, Inc.
Project: 240338/0014 CWLP-Ash Ponds
Sample: B-6/2 (8-9_ft)

TRI Log #: 25-02906.9
Test Method: ASTM D4767

Consolidation





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CHAIN OF CUSTODY

Page 1 of 1

Project No. 240338|0014 P.O. Number 240338/0014 Quote No. _____

Client / Site Location Springfield, IL

Illinois Site 0 Missouri Site _____ Iowa Site _____

Shipper FedEx

Sampled By (Signature) Nathan Beck

FAX Results: Yes ___ No 0

Turnaround Time: ___ RAPID; ___ 48 Hours; ___ 72 Hours; 0 5 Working days; ___ 10 Working Days

Sample ID	Sample Matrix	Sampling Date	Sampling Time	Container No.	Container Size	Preservative	Analysis Request: ASTM D698	Remarks
B-6 5'	**Soil**	**5/16**	**1:20**			**n/a**	**0**	
B-4 10'	**Soil**	**5/19**	**8:30**			**n/a**	**0**	

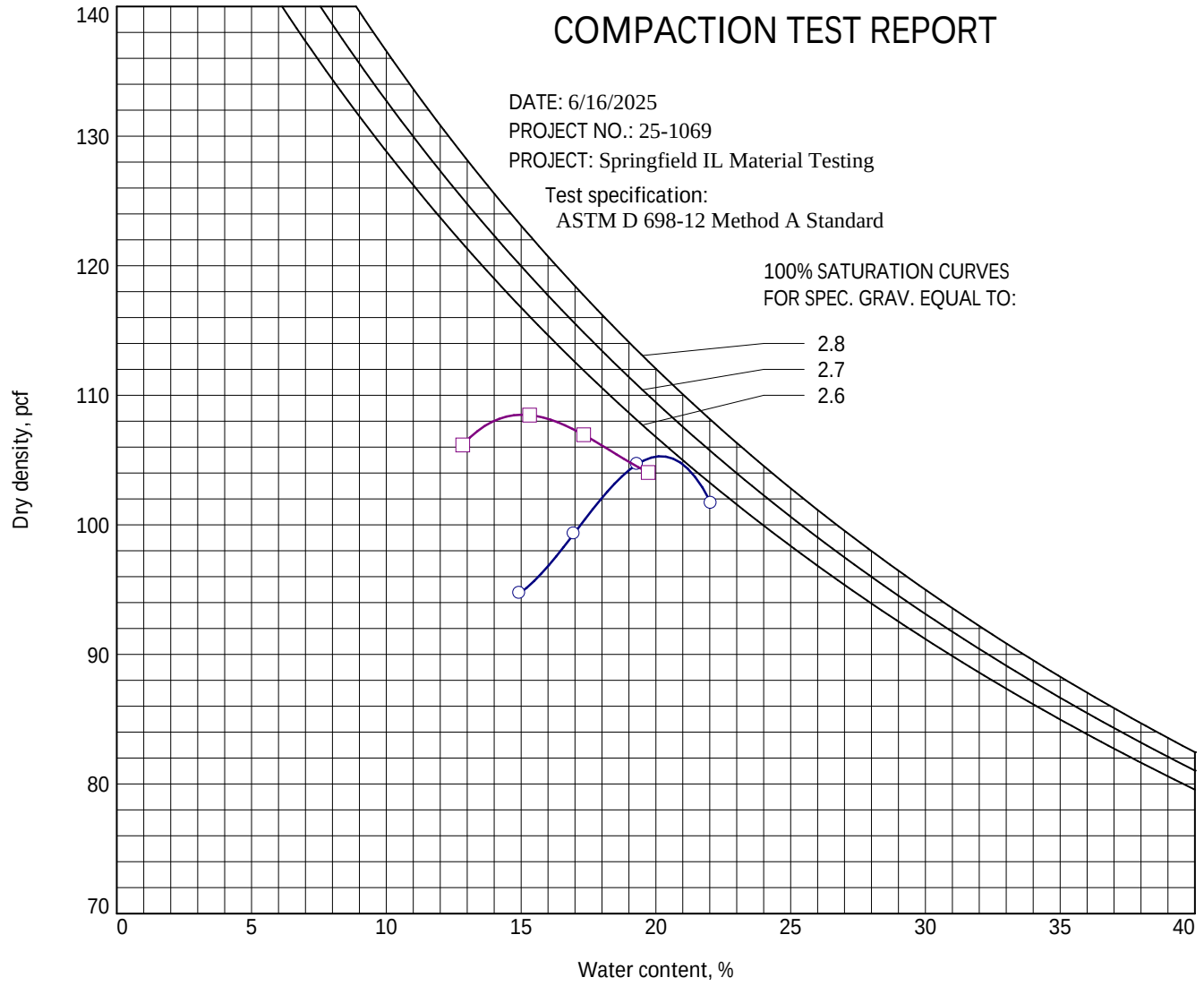
	Relinquished by	Received by	Relinquished by	Received by
Signature	Nathan Beck			
Printed Name	Nathan Beck	David Snocumuke		
Firm	Andrew Engineering	Geotechnics		
Date/Time	6/5/2025 2:00 PM	6/6/2025		

GEOTECHNICS
Soil & Material Testing

616 North 24th Street-Quincy, IL-Phone (217) 223-4456 Fax (217) 223-3603
4510 Paris Gravel Road-Hannibal, MO-Phone (573) 221-7714 Fax (573) 221-7714
610 North 4th Street, Suite 100-Burlington, IA 52601-Phone (319) 753-0816 Fax (319) 752-3605

COMPACTION TEST REPORT

DATE: 6/16/2025
PROJECT NO.: 25-1069
PROJECT: Springfield IL Material Testing
Test specification:
ASTM D 698-12 Method A Standard



	No.	LOCATION AND DESCRIPTION	REMARKS
○	SP-1	Loc.: On-Site Material (Rec'd 6/6/2025) Sample No.: B-4 (10 ft.) Fat Clay (CH), Brown mottled Light Brown, Trace Sand, Moist	As Rec'd Moisture = 26.0%
□	SP-2	Loc.: On-Site Material (Rec'd 6/6/2025) Sample No.: B-6 (5 ft.) Lean Clay with Sand (CL), Light Brown mottled Light Gray, Silty, Moist	As Rec'd Moisture = 17.1%

	No.	USCS	LL	PI	NAT. MOIST.	OVERSIZE	%< No.200	MAX. DRY DEN.	OPT. MOIST.
○	SP-1	(CH)						105.3	20.2 %
□	SP-2	(CL)						108.5	15.0 %

Figure 1

GEOTECHNICS

Tested By: NAS Checked By: NAS

APPENDIX E:
Liquefaction Analysis

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CWLP CPT-4L results

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Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

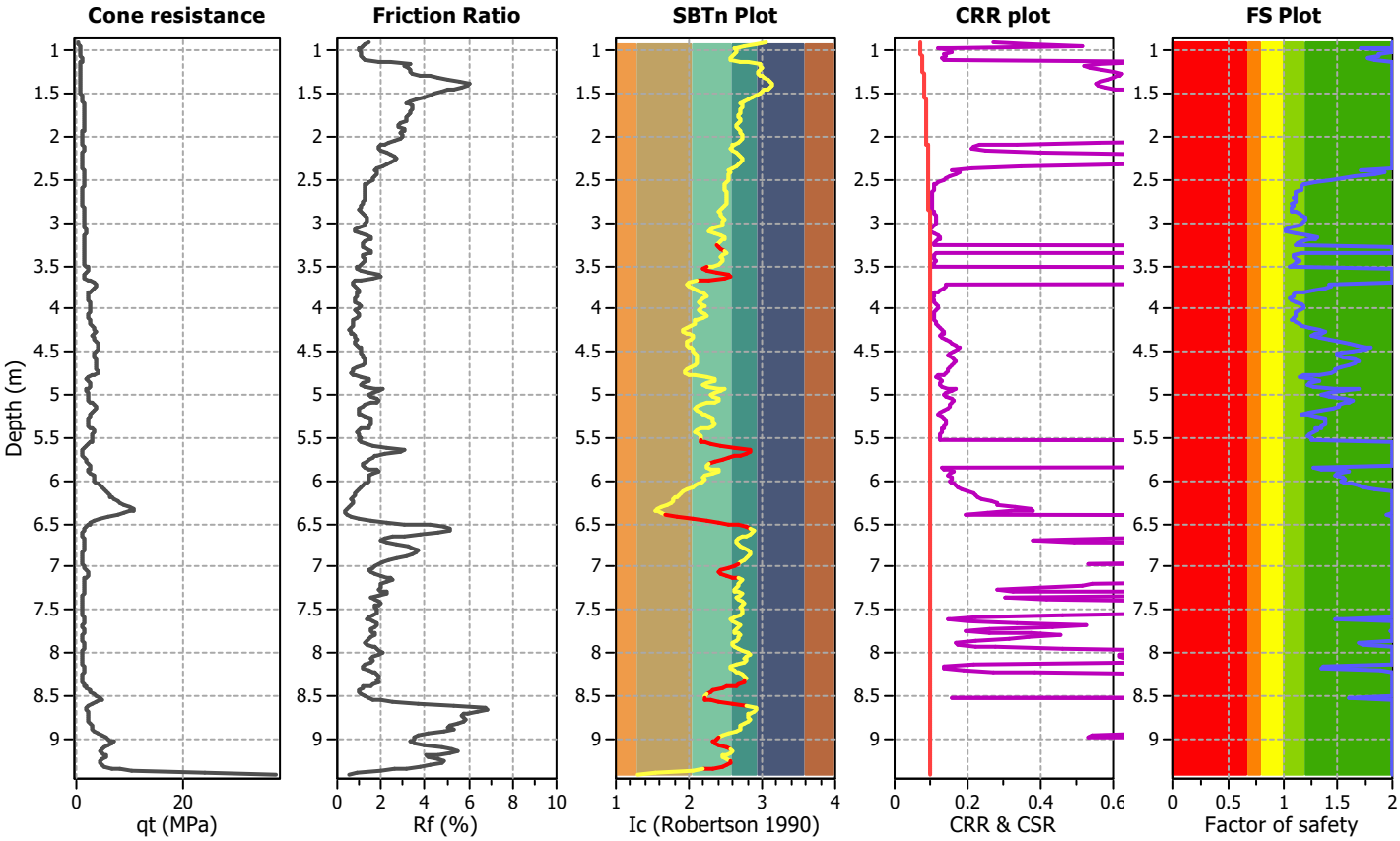
LIQUEFACTION ANALYSIS REPORT

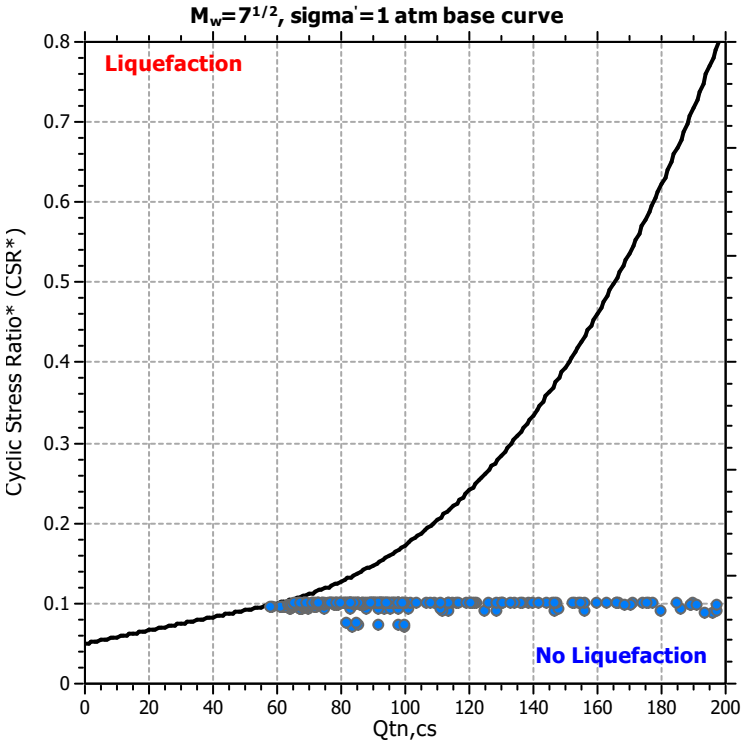
Project title : CWLP Free Face Liquefaction Analysis **Location : East Lake Shore Drive, Springfield, Illinois**

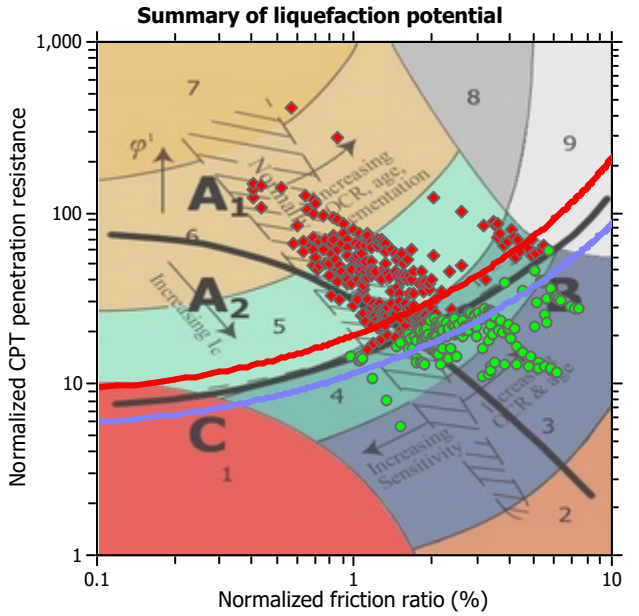
CPT file : CWLP CPT-2L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	0.50 m	Use fill:	No	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	0.50 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.10	Unit weight calculation:	Based on SBT	K_σ applied:	No		

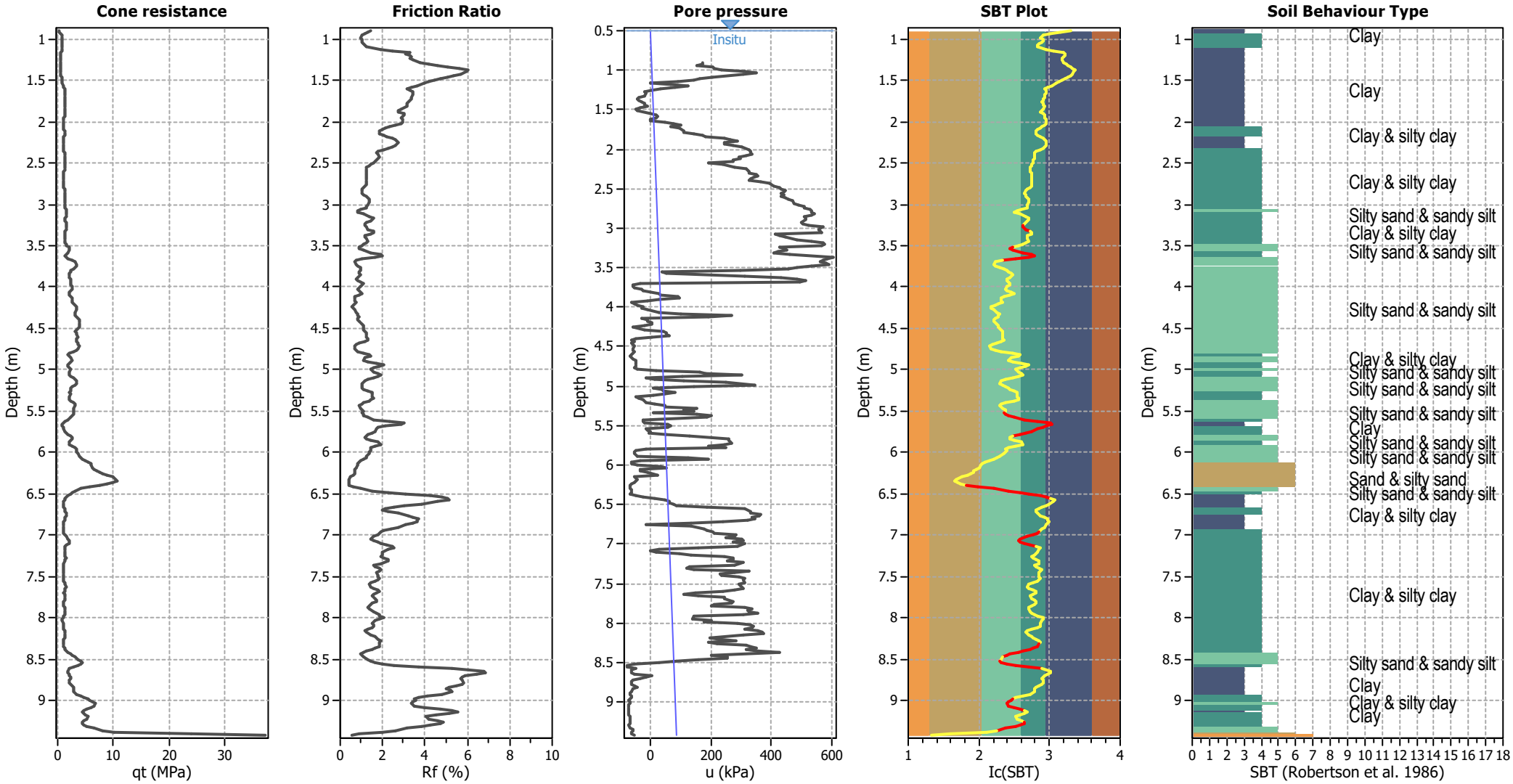






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



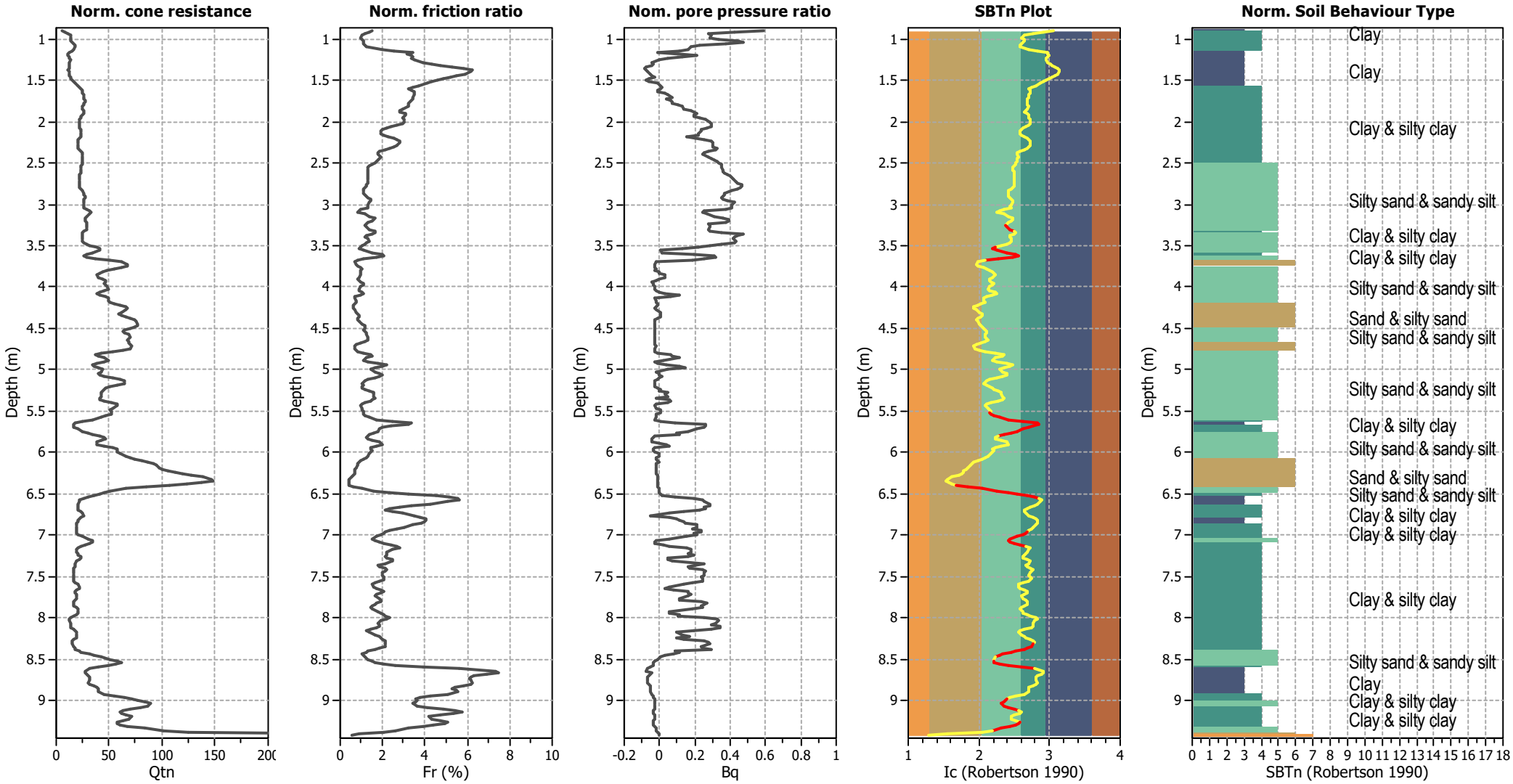
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	0.50 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



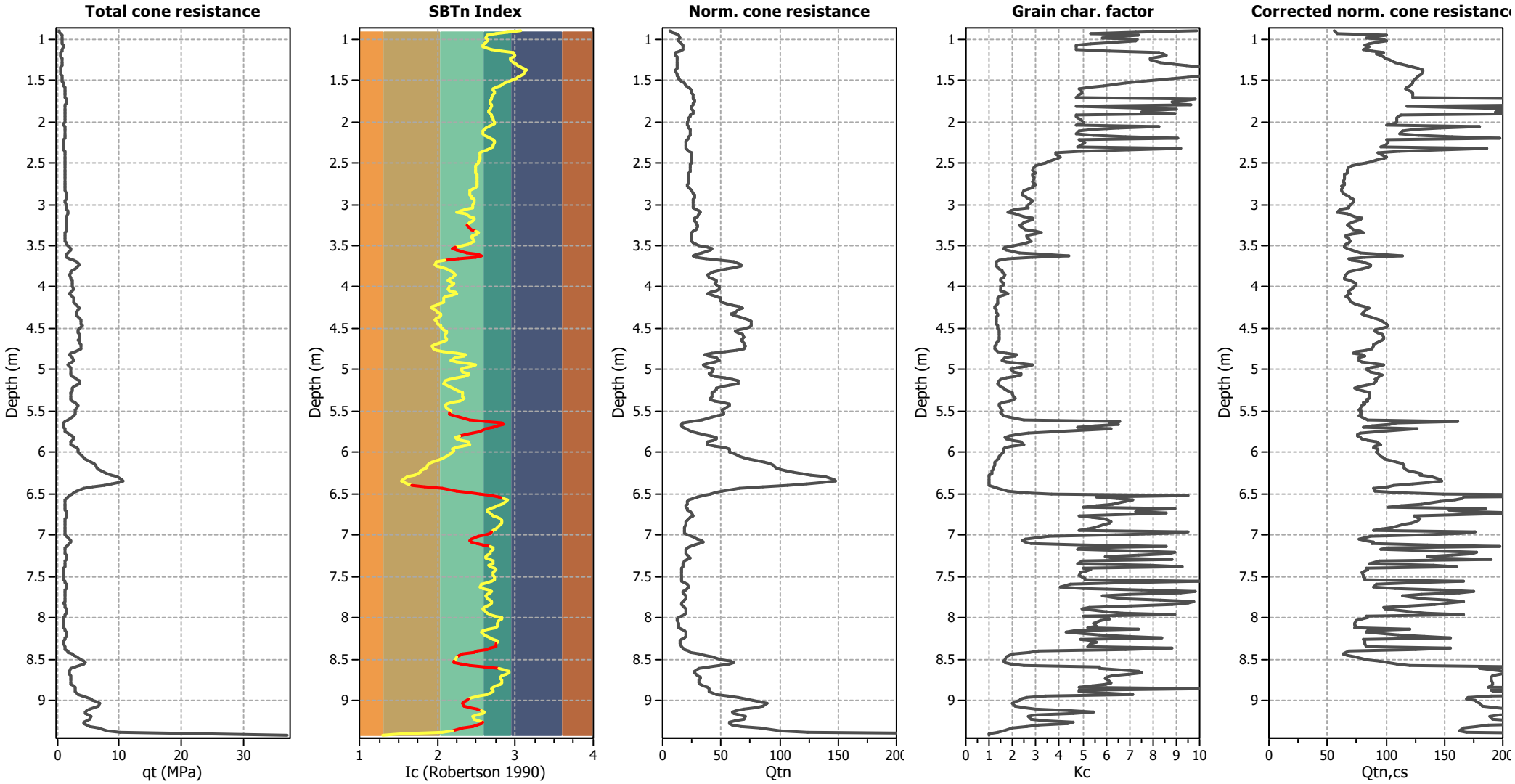
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	0.50 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

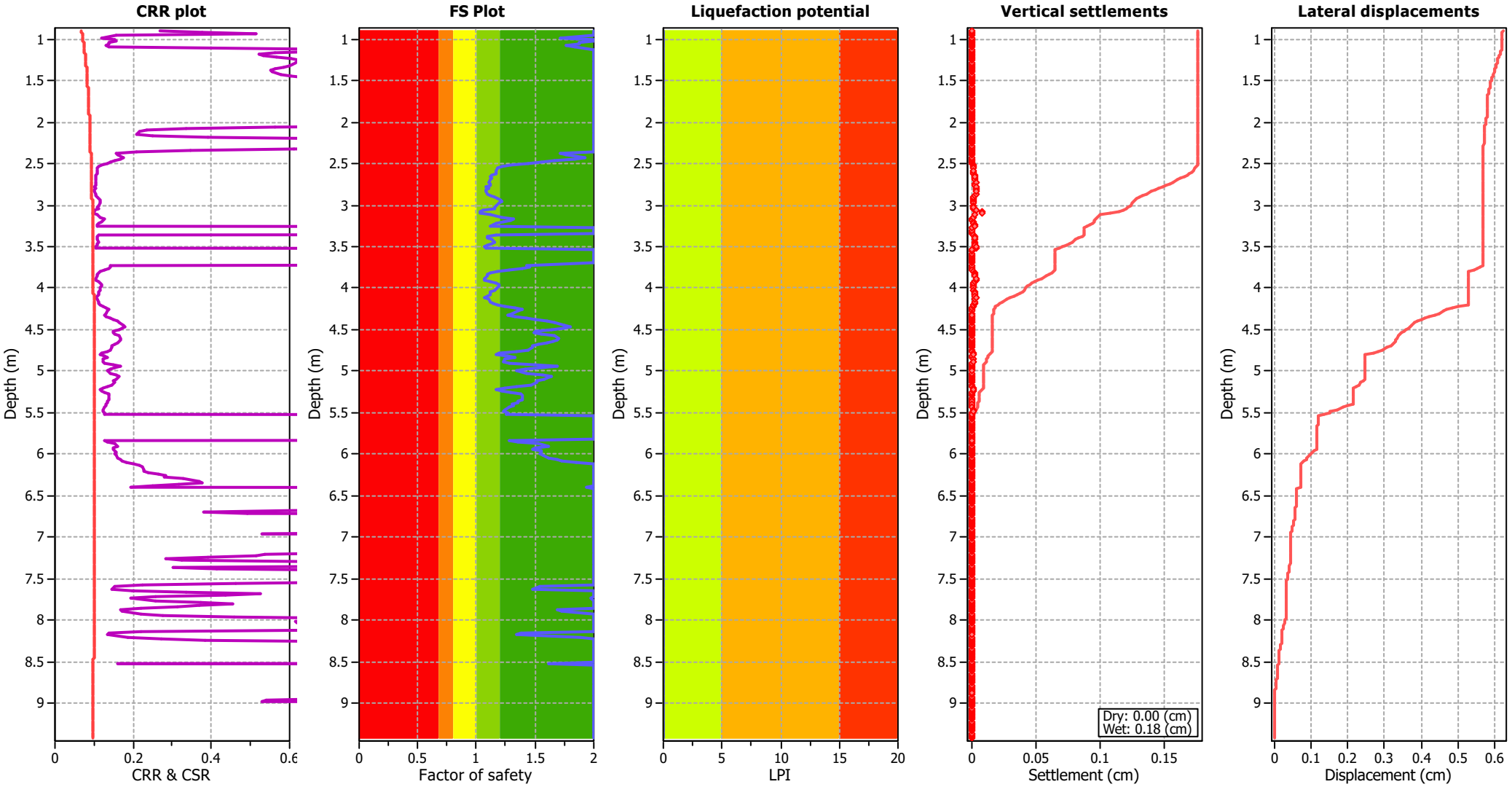
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	0.50 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_o applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	0.50 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A	Limit depth:	N/A

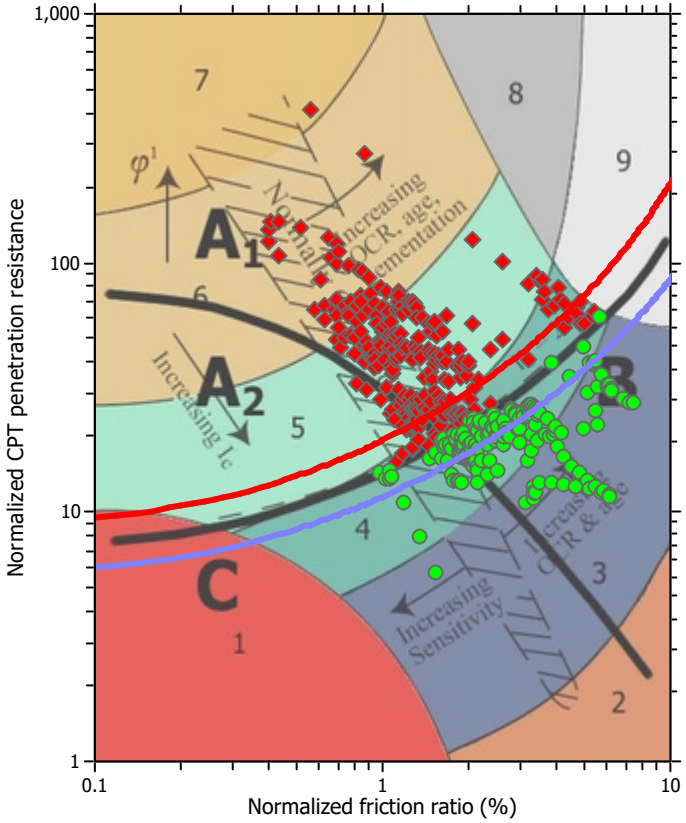
F.S. color scheme

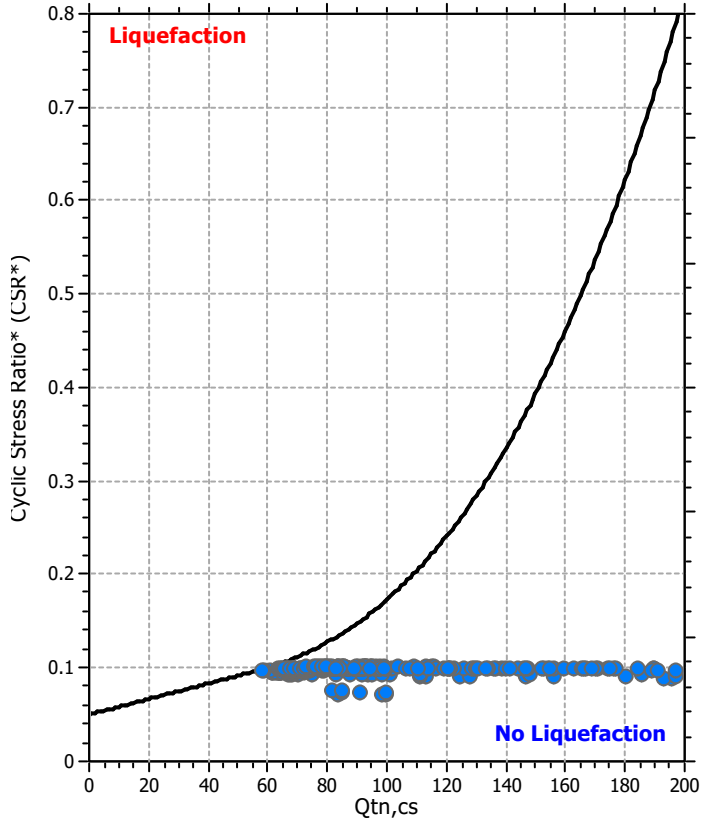
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

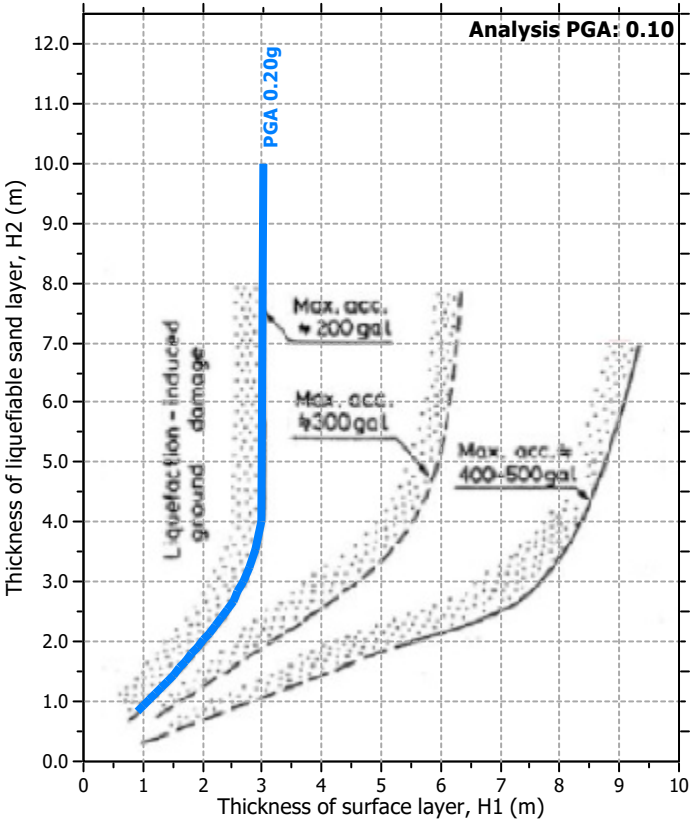
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



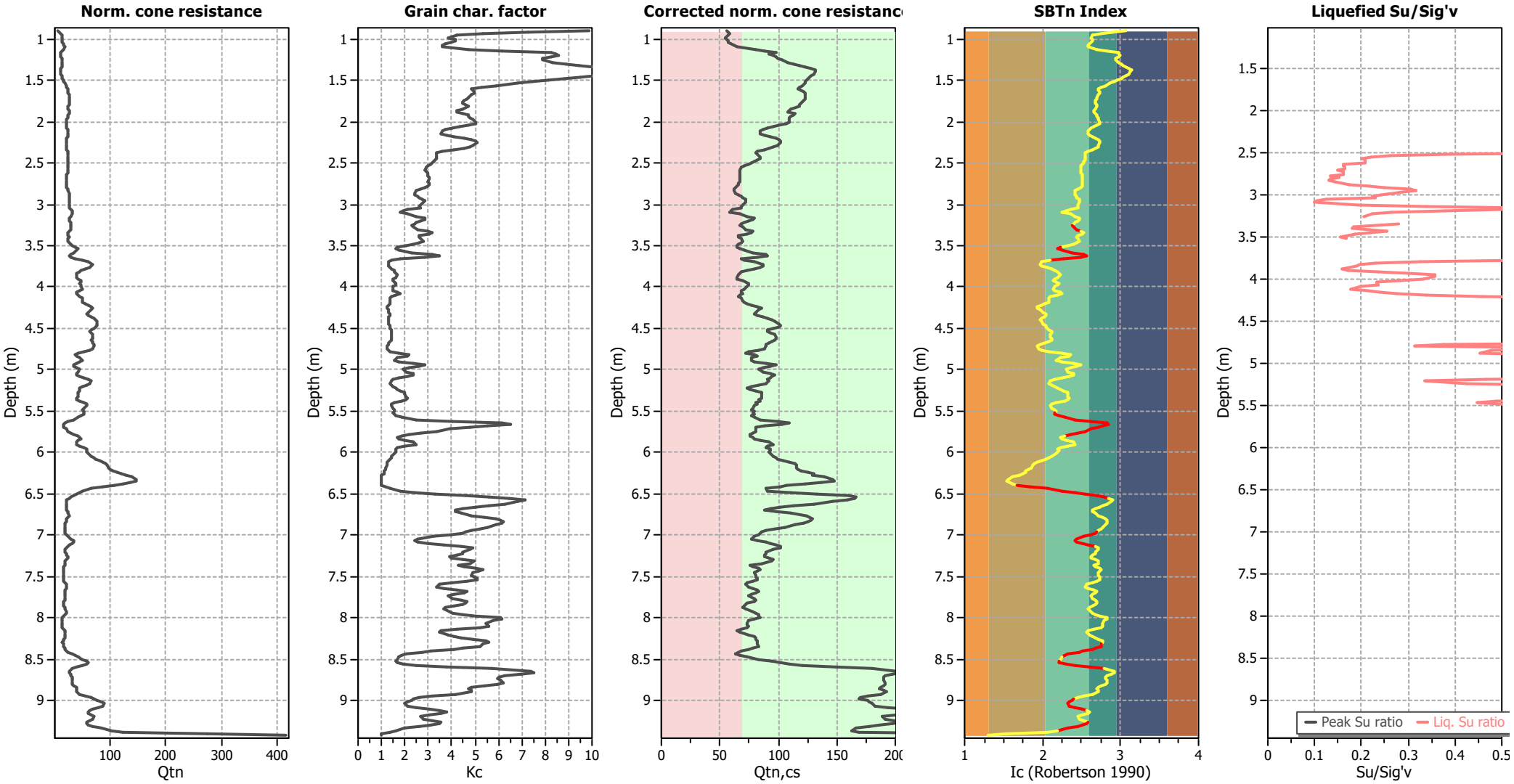




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	0.50 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

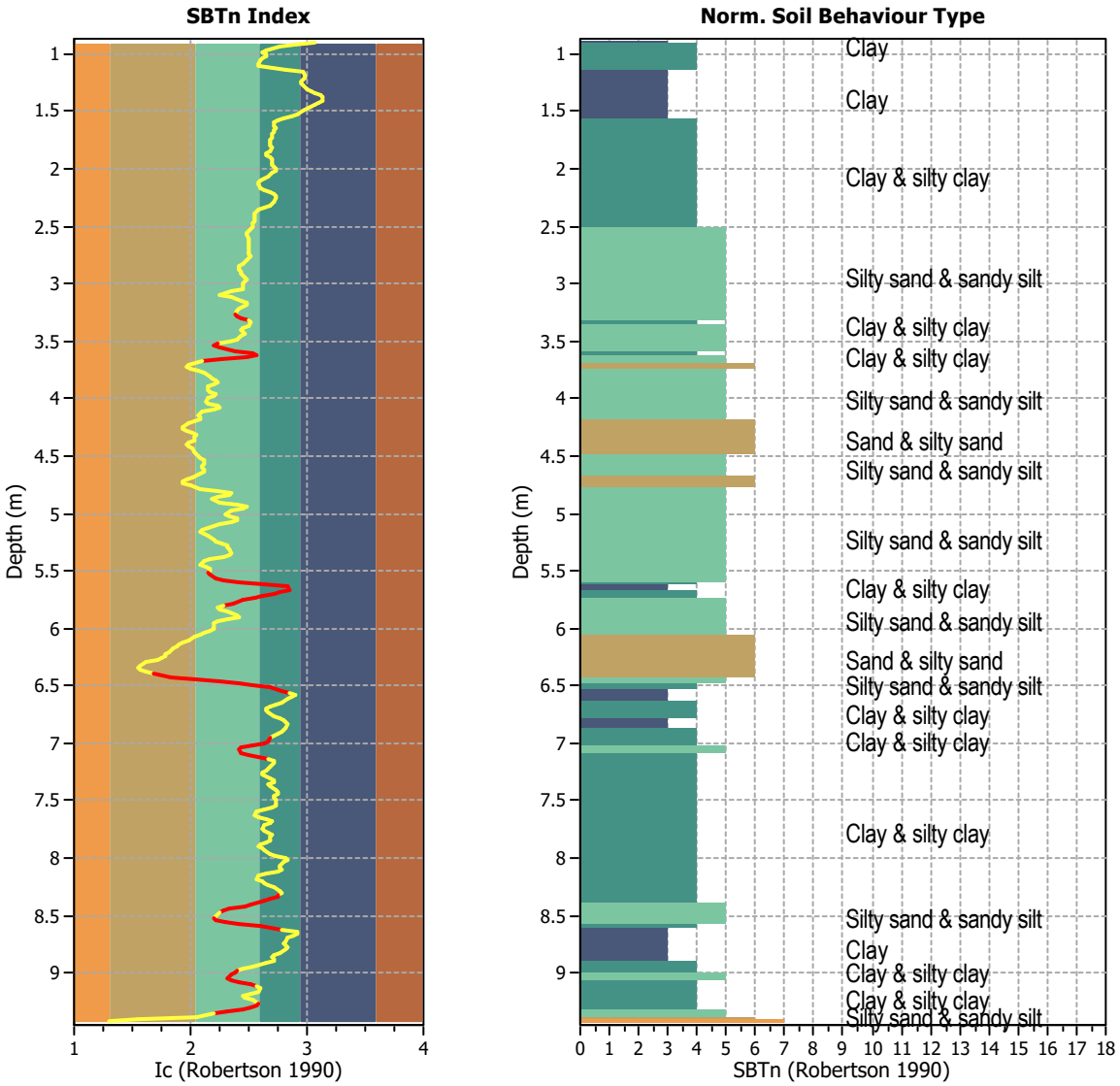
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	0.50 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	N/A	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		General statistics	
I_c minimum check value:	1.70	Total points in CPT file:	427
I_c maximum check value:	3.00	Total points excluded:	80
I_c change ratio value:	0.0100	Exclusion percentage:	18.74%
Minimum number of points in layer:	3	Number of layers detected:	13

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	4	Start depth: 3.28 (m)	5	Silty sand & sandy silt
		End depth: 3.34 (m)	4	Clay & silty clay
Transition layer 2	5	Start depth: 3.54 (m)	5	Silty sand & sandy silt
		End depth: 3.62 (m)	4	Clay & silty clay
Transition layer 3	5	Start depth: 3.62 (m)	4	Clay & silty clay
		End depth: 3.70 (m)	6	Sand & silty sand
Transition layer 4	7	Start depth: 5.54 (m)	5	Silty sand & sandy silt
		End depth: 5.66 (m)	3	Clay
Transition layer 5	9	Start depth: 5.66 (m)	3	Clay
		End depth: 5.82 (m)	5	Silty sand & sandy silt
Transition layer 6	9	Start depth: 6.42 (m)	6	Sand & silty sand
		End depth: 6.58 (m)	3	Clay
Transition layer 7	5	Start depth: 6.98 (m)	4	Clay & silty clay
		End depth: 7.06 (m)	5	Silty sand & sandy silt
Transition layer 8	6	Start depth: 7.06 (m)	5	Silty sand & sandy silt
		End depth: 7.16 (m)	4	Clay & silty clay
Transition layer 9	9	Start depth: 8.34 (m)	4	Clay & silty clay
		End depth: 8.50 (m)	5	Silty sand & sandy silt
Transition layer 10	6	Start depth: 8.54 (m)	5	Silty sand & sandy silt
		End depth: 8.64 (m)	3	Clay
Transition layer 11	3	Start depth: 9.00 (m)	4	Clay & silty clay
		End depth: 9.04 (m)	5	Silty sand & sandy silt
Transition layer 12	6	Start depth: 9.04 (m)	5	Silty sand & sandy silt
		End depth: 9.14 (m)	4	Clay & silty clay
Transition layer 13	6	Start depth: 9.28 (m)	4	Clay & silty clay
		End depth: 9.38 (m)	5	Silty sand & sandy silt

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.27	4.40	172.40	62.64	14.23
2	0.92	0.27	4.40	172.40	52.39	14.58
3	0.94	0.61	7.30	154.80	43.66	14.91
4	0.96	0.71	7.70	206.80	37.78	15.14
5	0.98	0.69	6.90	213.70	35.95	15.13
6	1.00	0.71	6.70	233.70	37.70	15.10
7	1.02	0.57	7.70	311.80	37.66	15.18
8	1.04	0.71	8.10	351.50	36.56	15.24
9	1.06	0.81	7.60	309.30	35.28	15.45
10	1.08	0.81	11.60	207.60	34.38	15.63
11	1.10	0.93	11.70	165.80	34.38	15.76
12	1.12	0.94	11.10	146.10	40.63	16.20
13	1.14	0.69	28.20	90.20	47.36	16.23
14	1.16	0.57	16.10	-1.00	56.46	16.26
15	1.18	0.56	16.60	66.40	57.14	16.07
16	1.20	0.56	20.00	126.90	57.63	16.18
17	1.22	0.59	20.80	83.20	56.40	16.29
18	1.24	0.67	21.20	34.50	54.87	16.37
19	1.26	0.69	23.00	5.10	54.79	16.46
20	1.28	0.67	25.60	-20.00	56.73	16.57
21	1.30	0.67	28.10	-13.60	58.84	16.66
22	1.32	0.67	30.00	-21.60	60.99	16.75
23	1.34	0.65	32.60	-38.10	63.44	16.82
24	1.36	0.63	35.00	-43.10	66.33	16.89
25	1.38	0.60	36.80	-37.20	68.28	16.93
26	1.40	0.61	37.20	-30.00	67.91	16.93
27	1.42	0.64	35.20	-20.70	66.02	16.93
28	1.44	0.67	35.20	-20.10	63.62	16.93
29	1.46	0.69	35.30	-11.50	61.23	16.95
30	1.48	0.75	35.30	-35.40	58.71	16.97
31	1.50	0.80	34.90	-47.70	55.92	17.00
32	1.52	0.86	35.90	-41.30	53.03	17.06
33	1.54	0.95	37.90	-1.60	50.30	17.13
34	1.56	1.01	38.20	17.80	46.31	17.20
35	1.58	1.19	38.20	22.10	43.25	17.24
36	1.60	1.25	38.70	17.60	41.22	17.29
37	1.62	1.26	41.00	-1.20	41.45	17.35
38	1.64	1.24	43.30	2.10	41.87	17.40
39	1.66	1.27	44.10	49.50	41.79	17.44
40	1.68	1.31	44.90	76.00	41.11	17.47
41	1.70	1.33	45.30	102.60	40.62	17.49
42	1.72	1.34	45.60	67.80	40.14	17.50
43	1.74	1.37	45.30	96.50	39.70	17.49
44	1.76	1.38	44.60	109.90	39.22	17.48
45	1.78	1.37	43.30	112.20	39.29	17.44
46	1.80	1.30	41.60	145.90	39.97	17.40
47	1.82	1.23	41.10	172.00	40.55	17.36
48	1.84	1.25	40.40	183.40	39.41	17.21

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	1.22	27.70	244.60	38.10	17.24
50	1.88	1.39	41.80	264.00	37.96	17.24
51	1.90	1.24	40.20	286.90	39.37	17.34
52	1.92	1.20	37.90	246.50	40.52	17.26
53	1.94	1.17	35.80	243.30	40.63	17.18
54	1.96	1.14	33.50	276.40	40.88	17.12
55	1.98	1.10	33.50	302.30	41.51	17.09
56	2.00	1.07	34.40	326.00	42.09	17.06
57	2.02	1.05	31.80	333.20	41.92	17.01
58	2.04	1.05	29.20	331.50	40.55	16.91
59	2.06	1.08	26.50	339.20	38.68	16.82
60	2.08	1.12	24.70	319.10	36.80	16.75
61	2.10	1.15	23.40	295.10	35.36	16.69
62	2.12	1.17	22.40	299.50	34.52	16.67
63	2.14	1.19	23.00	275.40	34.31	16.68
64	2.16	1.20	24.10	275.90	35.42	16.76
65	2.18	1.16	27.40	190.70	37.20	16.82
66	2.20	1.09	27.80	242.70	39.47	16.87
67	2.22	1.04	29.00	280.10	41.12	16.87
68	2.24	1.00	28.70	316.20	42.02	16.87
69	2.26	1.00	28.50	323.40	42.34	16.86
70	2.28	0.99	28.20	326.00	41.61	16.81
71	2.30	1.00	24.80	326.00	40.89	16.75
72	2.32	0.99	24.30	351.30	39.56	16.67
73	2.34	1.02	22.90	358.20	37.29	16.63
74	2.36	1.16	21.20	340.50	34.59	16.59
75	2.38	1.22	20.50	330.60	32.89	16.61
76	2.40	1.24	23.00	328.80	32.88	16.68
77	2.42	1.24	24.70	367.10	33.21	16.74
78	2.44	1.24	23.90	395.30	33.01	16.72
79	2.46	1.23	22.00	409.60	32.59	16.66
80	2.48	1.21	21.30	428.00	32.30	16.62
81	2.50	1.21	21.20	435.60	32.02	16.53
82	2.52	1.16	17.80	446.00	31.44	16.43
83	2.54	1.16	16.40	442.10	30.63	16.30
84	2.56	1.16	15.50	435.50	30.18	16.23
85	2.58	1.14	14.90	441.90	30.07	16.19
86	2.60	1.14	14.90	435.70	30.39	16.18
87	2.62	1.12	15.40	448.30	30.62	16.17
88	2.64	1.10	14.60	458.80	30.83	16.16
89	2.66	1.09	14.60	471.60	30.88	16.13
90	2.68	1.08	14.50	479.40	30.94	16.13
91	2.70	1.09	14.50	491.80	30.94	16.12
92	2.72	1.08	14.40	509.00	30.84	16.10
93	2.74	1.07	13.90	512.60	31.00	16.08
94	2.76	1.04	13.90	528.80	31.09	16.05
95	2.78	1.04	13.30	534.10	30.83	16.02
96	2.80	1.07	12.90	537.00	29.91	16.02

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	1.14	13.40	546.80	28.45	16.02
98	2.84	1.22	12.90	536.90	27.26	16.08
99	2.86	1.28	13.90	510.20	26.83	16.17
100	2.88	1.31	16.10	517.10	26.99	16.29
101	2.90	1.34	17.20	516.00	27.50	16.39
102	2.92	1.33	18.00	502.60	28.09	16.43
103	2.94	1.28	18.30	505.20	29.20	16.48
104	2.96	1.24	19.70	525.40	29.71	16.47
105	2.98	1.24	17.90	574.50	29.42	16.44
106	3.00	1.27	16.80	564.70	28.64	16.38
107	3.02	1.28	17.10	558.90	28.35	16.36
108	3.04	1.26	16.70	562.40	28.51	16.36
109	3.06	1.25	16.90	570.40	24.49	16.20
110	3.08	1.71	9.10	416.00	22.35	16.19
111	3.10	1.65	15.20	431.10	20.98	16.18
112	3.12	1.55	16.10	447.30	24.50	16.49
113	3.14	1.45	22.20	486.10	27.46	16.64
114	3.16	1.35	24.00	536.50	29.83	16.74
115	3.18	1.31	22.70	575.80	29.72	16.70
116	3.20	1.40	20.30	578.20	28.81	16.62
117	3.22	1.36	19.10	567.20	27.35	16.51
118	3.24	1.41	16.80	428.00	26.60	16.46
119	3.26	1.48	17.70	443.70	25.88	16.45
120	3.28	1.49	18.40	451.40	26.25	16.51
121	3.30	1.43	19.50	425.60	27.68	16.55
122	3.32	1.31	20.10	408.90	30.68	16.63
123	3.34	1.18	24.40	461.70	31.70	16.55
124	3.36	1.17	16.20	607.20	30.97	16.43
125	3.38	1.22	14.20	588.00	28.37	16.23
126	3.40	1.27	15.40	571.50	28.11	16.24
127	3.42	1.22	16.30	565.50	28.81	16.31
128	3.44	1.21	17.20	585.10	29.32	16.37
129	3.46	1.27	18.00	593.10	28.05	16.36
130	3.48	1.39	15.40	532.70	26.09	16.39
131	3.50	1.55	16.90	488.70	23.47	16.41
132	3.52	1.78	17.50	457.80	20.04	16.58
133	3.54	2.44	19.70	298.90	18.84	16.69
134	3.56	2.15	20.70	40.00	20.56	16.87
135	3.58	1.73	27.70	55.20	25.88	16.94
136	3.60	1.39	28.40	311.30	32.06	17.00
137	3.62	1.19	29.80	431.40	33.85	16.91
138	3.64	1.31	23.70	488.70	30.00	16.83
139	3.66	1.76	20.60	513.80	21.52	16.72
140	3.68	2.55	17.30	496.20	15.69	16.82
141	3.70	3.32	23.00	-33.10	12.64	16.96
142	3.72	3.56	24.20	-59.60	12.12	17.18
143	3.74	3.57	28.30	-59.50	12.83	17.28
144	3.76	3.26	30.50	-54.30	14.65	17.33

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	2.79	30.30	-30.90	16.41	17.20
146	3.80	2.44	22.10	-25.40	17.68	16.98
147	3.82	2.24	18.80	27.50	18.47	16.79
148	3.84	2.12	21.10	32.90	19.38	16.69
149	3.86	1.98	18.40	92.70	20.16	16.66
150	3.88	1.97	18.00	96.80	18.95	16.56
151	3.90	2.26	16.00	28.30	17.42	16.60
152	3.92	2.51	18.80	-9.80	17.16	16.79
153	3.94	2.46	26.00	-60.90	18.09	16.94
154	3.96	2.30	24.50	-54.10	19.36	17.03
155	3.98	2.32	25.00	-45.60	18.84	17.03
156	4.00	2.62	25.70	-25.00	17.57	16.99
157	4.02	2.61	20.80	-30.30	16.65	16.88
158	4.04	2.38	18.40	-8.50	17.60	16.79
159	4.06	2.09	22.10	27.20	20.00	16.78
160	4.08	1.88	22.60	101.60	20.94	16.77
161	4.10	2.07	18.50	269.80	18.92	16.71
162	4.12	2.48	17.50	190.90	15.86	16.56
163	4.14	2.58	14.10	-27.40	14.97	16.63
164	4.16	2.58	20.30	-10.80	15.15	16.71
165	4.18	2.63	21.10	-10.60	15.33	16.81
166	4.20	2.73	18.70	2.70	13.81	16.80
167	4.22	3.20	18.60	6.00	12.37	16.82
168	4.24	3.35	20.20	-21.80	11.03	16.86
169	4.26	3.60	19.20	-56.50	11.13	17.00
170	4.28	3.56	25.40	-20.70	12.00	17.04
171	4.30	2.94	23.20	44.80	13.18	17.07
172	4.32	3.05	22.40	52.80	14.21	17.08
173	4.34	3.08	27.20	55.20	14.08	17.20
174	4.36	3.34	30.00	61.20	13.64	17.35
175	4.38	3.72	31.20	2.70	12.55	17.38
176	4.40	3.81	27.80	-49.30	12.06	17.46
177	4.42	3.92	34.60	-61.20	12.44	17.58
178	4.44	3.94	41.20	-54.60	13.31	17.76
179	4.46	3.94	44.30	-61.20	13.92	17.86
180	4.48	3.95	45.60	-59.10	14.22	17.82
181	4.50	3.61	37.70	-54.20	14.73	17.73
182	4.52	3.35	37.40	-59.00	15.41	17.59
183	4.54	3.13	34.20	-57.20	16.15	17.60
184	4.56	3.30	40.00	-54.80	16.24	17.69
185	4.58	3.62	45.90	-58.30	15.78	17.81
186	4.60	3.73	43.90	-63.60	15.76	17.85
187	4.62	3.46	44.00	-66.80	16.14	17.85
188	4.64	3.43	46.60	-61.50	16.44	17.83
189	4.66	3.52	42.40	-56.10	15.31	17.72
190	4.68	3.64	31.70	-46.30	13.54	17.52
191	4.70	3.76	26.60	-48.60	12.13	17.34
192	4.72	3.85	27.00	-46.80	11.24	17.26

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	4.03	24.90	-48.70	11.41	17.23
194	4.76	3.54	24.90	-51.90	12.86	17.18
195	4.78	2.70	26.10	-41.70	15.36	16.98
196	4.80	2.16	17.70	17.70	20.35	16.94
197	4.82	1.75	27.70	162.90	24.63	17.03
198	4.84	1.84	35.80	184.50	24.04	17.20
199	4.86	2.55	28.20	302.10	20.03	17.16
200	4.88	2.70	20.40	107.20	18.42	17.15
201	4.90	2.36	33.40	-15.30	20.90	17.24
202	4.92	2.04	36.60	15.60	26.13	17.35
203	4.94	1.67	35.00	110.10	29.89	17.39
204	4.96	1.69	41.50	248.80	28.17	17.33
205	4.98	2.17	29.00	347.60	24.65	17.33
206	5.00	2.40	31.50	144.90	22.41	17.31
207	5.02	2.22	37.00	9.60	23.73	17.39
208	5.04	2.06	36.70	37.90	26.16	17.46
209	5.06	2.01	40.40	43.20	26.48	17.54
210	5.08	2.31	44.80	83.30	24.21	17.60
211	5.10	2.73	39.40	47.10	20.86	17.71
212	5.12	3.26	45.80	10.00	17.59	17.70
213	5.14	3.58	37.20	-49.10	15.80	17.70
214	5.16	3.66	35.80	-41.10	15.08	17.60
215	5.18	3.35	35.70	-25.90	16.29	17.43
216	5.20	2.41	26.00	-15.90	17.61	17.21
217	5.22	2.48	22.60	15.60	18.72	17.03
218	5.24	2.50	26.20	50.10	19.75	17.13
219	5.26	2.28	33.10	46.20	21.43	17.24
220	5.28	2.16	31.60	155.30	23.31	17.33
221	5.30	2.22	35.50	109.90	23.37	17.35
222	5.32	2.29	34.90	144.60	23.52	17.34
223	5.34	2.11	30.30	9.70	24.26	17.31
224	5.36	1.97	34.10	154.30	23.70	17.26
225	5.38	2.32	30.70	202.40	21.86	17.36
226	5.40	2.81	35.90	186.70	17.99	17.39
227	5.42	3.48	30.50	-23.10	16.21	17.43
228	5.44	3.28	30.20	-26.10	15.53	17.34
229	5.46	2.95	28.70	-17.30	16.63	17.28
230	5.48	2.76	28.00	58.30	17.67	17.25
231	5.50	2.73	29.40	69.00	17.89	17.34
232	5.52	3.12	35.70	56.00	17.39	17.32
233	5.54	2.94	25.60	-13.10	17.81	17.35
234	5.56	2.66	32.20	-7.50	19.28	17.25
235	5.58	2.28	30.50	-0.20	22.15	17.22
236	5.60	1.95	27.50	-3.10	27.42	17.08
237	5.62	1.14	28.60	54.70	36.86	17.04
238	5.64	0.90	36.20	131.30	47.49	16.89
239	5.66	0.84	24.80	258.80	48.89	16.68
240	5.68	0.84	16.20	261.70	44.45	16.35

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.88	16.60	263.90	40.95	16.23
242	5.72	0.99	18.50	267.80	36.42	16.42
243	5.74	1.38	21.80	247.40	32.86	16.63
244	5.76	1.48	24.30	194.40	28.54	16.80
245	5.78	1.80	24.50	250.30	24.94	16.96
246	5.80	2.38	27.40	-12.90	21.73	17.15
247	5.82	2.74	32.70	-47.80	20.04	17.30
248	5.84	2.75	32.00	-50.80	20.43	17.37
249	5.86	2.44	33.20	-53.40	22.87	17.42
250	5.88	2.07	39.80	-42.00	26.53	17.46
251	5.90	1.85	40.60	125.30	27.09	17.52
252	5.92	2.41	39.60	191.60	23.36	17.62
253	5.94	3.31	43.60	-34.10	19.97	17.76
254	5.96	3.47	47.80	-62.30	18.96	17.89
255	5.98	3.31	50.70	-61.20	19.26	17.90
256	6.00	3.22	45.30	-41.90	18.94	17.88
257	6.02	3.57	45.40	34.50	17.92	17.94
258	6.04	4.00	54.70	51.80	16.51	18.01
259	6.06	4.26	49.40	-34.40	15.45	18.07
260	6.08	4.51	49.90	-31.90	14.08	18.06
261	6.10	4.93	49.50	-9.70	12.46	18.08
262	6.12	5.67	47.00	25.60	11.11	18.12
263	6.14	6.04	50.30	-52.60	10.28	18.17
264	6.16	6.14	52.40	-47.20	9.85	18.17
265	6.18	6.23	45.70	-43.40	9.19	18.14
266	6.20	6.71	44.80	-46.50	8.42	18.11
267	6.22	7.03	46.50	-51.00	7.75	18.14
268	6.24	7.49	46.90	-61.50	7.64	18.31
269	6.26	8.11	63.50	-66.40	7.15	18.41
270	6.28	8.68	56.40	-67.50	6.34	18.45
271	6.30	9.47	48.60	-68.60	4.76	18.37
272	6.32	11.21	45.50	-64.10	3.76	18.27
273	6.34	10.85	41.50	-62.40	3.47	18.22
274	6.36	9.95	41.80	-65.80	3.87	18.09
275	6.38	8.78	35.00	-49.60	4.50	17.90
276	6.40	7.55	27.50	-22.00	5.00	17.75
277	6.42	6.16	33.40	11.90	8.90	17.73
278	6.44	3.60	41.90	45.90	14.49	17.82
279	6.46	2.87	49.00	60.90	20.93	17.84
280	6.48	2.87	49.00	60.90	27.01	18.08
281	6.50	2.23	83.10	75.70	32.47	18.25
282	6.52	1.92	85.80	85.10	39.85	18.34
283	6.54	1.67	82.30	189.90	44.85	18.21
284	6.56	1.25	70.20	311.80	48.78	18.03
285	6.58	1.17	62.50	331.60	51.65	17.85
286	6.60	1.15	58.80	334.20	50.45	17.67
287	6.62	1.12	44.10	365.40	47.98	17.44
288	6.64	1.11	33.00	360.10	44.79	17.16

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	1.11	29.40	336.10	42.12	16.96
290	6.68	1.16	27.50	349.00	39.35	16.83
291	6.70	1.24	22.30	321.90	37.70	16.78
292	6.72	1.25	25.00	243.00	37.63	17.12
293	6.74	1.62	49.40	135.20	39.00	17.38
294	6.76	1.50	45.80	-13.10	41.22	17.61
295	6.78	1.33	50.20	134.20	43.95	17.54
296	6.80	1.22	45.80	176.00	46.30	17.51
297	6.82	1.20	45.00	185.50	47.07	17.44
298	6.84	1.17	43.80	208.20	47.55	17.39
299	6.86	1.12	40.50	211.50	47.42	17.31
300	6.88	1.11	37.10	282.00	46.23	17.16
301	6.90	1.11	30.20	278.00	44.58	17.00
302	6.92	1.08	26.40	250.80	42.84	16.83
303	6.94	1.09	24.60	304.10	41.14	16.69
304	6.96	1.12	20.60	308.60	39.87	16.59
305	6.98	1.10	20.40	274.10	39.09	16.61
306	7.00	1.19	24.80	313.60	36.63	16.69
307	7.02	1.47	23.20	290.50	32.26	16.85
308	7.04	1.91	26.30	160.80	27.69	17.06
309	7.06	2.37	33.10	30.70	26.77	17.34
310	7.08	2.26	41.90	0.10	27.93	17.50
311	7.10	2.01	41.60	16.80	30.73	17.46
312	7.12	1.68	32.80	97.20	34.76	17.36
313	7.14	1.38	38.40	135.70	38.97	17.23
314	7.16	1.21	34.70	244.20	41.60	17.10
315	7.18	1.20	25.20	272.20	40.92	16.92
316	7.20	1.22	25.10	273.20	39.38	16.80
317	7.22	1.23	25.80	256.20	39.11	16.83
318	7.24	1.26	26.80	309.50	37.80	16.89
319	7.26	1.44	27.70	280.10	36.12	16.98
320	7.28	1.57	30.10	127.70	36.47	17.06
321	7.30	1.36	32.50	120.70	39.24	17.06
322	7.32	1.14	30.50	146.30	41.66	16.88
323	7.34	1.08	19.60	325.60	40.94	16.62
324	7.36	1.14	17.10	280.70	38.33	16.40
325	7.38	1.16	18.50	233.40	39.63	16.43
326	7.40	1.00	21.60	234.30	42.03	16.49
327	7.42	0.99	21.30	296.20	43.58	16.47
328	7.44	1.00	18.30	311.00	42.74	16.43
329	7.46	1.03	19.30	308.10	41.49	16.39
330	7.48	1.05	18.60	310.90	41.25	16.42
331	7.50	1.06	19.70	292.30	41.82	16.43
332	7.52	0.99	20.10	299.50	42.50	16.45
333	7.54	1.01	19.70	303.00	42.32	16.43
334	7.56	1.06	18.60	310.40	40.30	16.40
335	7.58	1.15	17.60	280.30	36.98	16.40
336	7.60	1.36	18.20	240.60	33.89	16.53

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	1.59	22.20	147.60	33.18	16.69
338	7.64	1.48	25.10	112.50	34.80	16.75
339	7.66	1.24	22.50	160.40	37.95	16.71
340	7.68	1.15	22.00	246.10	40.13	16.63
341	7.70	1.15	22.00	246.10	39.62	16.55
342	7.72	1.19	18.20	273.60	37.39	16.51
343	7.74	1.34	19.20	269.10	35.98	16.53
344	7.76	1.34	22.10	212.10	36.97	16.66
345	7.78	1.23	24.80	201.30	38.77	16.61
346	7.80	1.09	18.00	314.90	40.08	16.48
347	7.82	1.06	16.60	337.20	39.84	16.28
348	7.84	1.04	15.80	322.30	39.22	16.24
349	7.86	1.12	16.20	326.90	37.44	16.27
350	7.88	1.26	17.00	355.00	35.17	16.34
351	7.90	1.37	17.30	310.10	34.77	16.53
352	7.92	1.41	24.00	145.50	36.16	16.71
353	7.94	1.34	26.60	138.10	36.99	16.77
354	7.96	1.36	21.00	200.90	39.36	16.73
355	7.98	1.10	23.60	178.80	42.17	16.58
356	8.00	0.89	20.40	289.40	47.01	16.43
357	8.02	0.83	16.20	330.70	47.48	16.22
358	8.04	0.88	14.70	340.70	45.52	16.08
359	8.06	0.92	14.40	334.90	44.16	16.06
360	8.08	0.91	14.90	315.40	44.45	16.10
361	8.10	0.89	16.10	357.20	44.68	16.13
362	8.12	0.92	15.50	372.50	42.91	16.13
363	8.14	1.04	14.40	377.00	37.82	16.18
364	8.16	1.39	15.70	307.20	34.26	16.20
365	8.18	1.36	14.70	199.80	33.61	16.38
366	8.20	1.34	20.60	232.30	35.80	16.58
367	8.22	1.35	25.70	285.60	37.26	16.70
368	8.24	1.34	21.60	192.90	38.81	16.71
369	8.26	1.18	22.10	223.80	41.37	16.59
370	8.28	0.96	20.70	316.40	44.17	16.51
371	8.30	1.00	19.20	333.60	44.82	16.46
372	8.32	1.07	20.20	354.00	43.60	16.50
373	8.34	1.09	21.70	318.00	43.06	16.58
374	8.36	1.12	22.90	357.80	39.24	16.61
375	8.38	1.46	19.60	427.40	37.17	16.56
376	8.40	1.29	18.20	201.30	31.42	16.59
377	8.42	1.94	20.80	257.20	29.22	16.65
378	8.44	1.94	20.80	257.20	23.57	16.91
379	8.46	3.01	26.70	159.90	22.17	17.16
380	8.48	2.94	34.10	88.20	20.44	17.53
381	8.50	3.56	44.70	31.10	19.72	17.94
382	8.52	4.68	63.90	-51.90	19.25	18.32
383	8.54	4.72	81.00	-76.50	19.54	18.52
384	8.56	4.31	76.20	-77.30	22.46	18.61

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	3.57	90.40	-47.10	27.17	18.64
386	8.60	2.82	100.30	-63.80	35.73	18.71
387	8.62	2.02	118.50	-64.90	45.24	18.77
388	8.64	1.85	132.40	-53.20	52.82	18.81
389	8.66	1.84	133.20	3.40	53.28	18.83
390	8.68	2.00	125.30	-13.00	51.01	18.84
391	8.70	2.15	126.60	-32.80	48.05	18.85
392	8.72	2.30	128.30	-58.40	46.65	18.89
393	8.74	2.33	132.70	-60.70	46.40	18.90
394	8.76	2.24	129.60	-62.60	46.98	18.88
395	8.78	2.16	123.20	-63.50	47.58	18.88
396	8.80	2.23	132.70	-53.70	46.62	18.93
397	8.82	2.51	141.00	-44.50	43.77	19.02
398	8.84	2.92	143.20	-55.80	41.25	19.09
399	8.86	2.94	144.70	-64.10	40.40	19.12
400	8.88	2.80	146.60	-67.50	41.00	19.14
401	8.90	2.87	152.60	-65.60	41.11	19.18
402	8.92	3.06	159.40	-62.10	37.53	19.29
403	8.94	4.07	169.00	-61.00	32.03	19.43
404	8.96	5.23	177.80	-65.50	28.37	19.55
405	8.98	5.23	184.70	-71.20	26.41	19.65
406	9.00	5.66	196.40	-69.80	25.78	19.79
407	9.02	6.52	235.20	-68.60	24.38	19.90
408	9.04	6.95	226.70	-72.70	23.37	19.98
409	9.06	7.03	228.20	-73.00	24.34	19.97
410	9.08	5.78	240.60	-72.30	27.03	19.97
411	9.10	5.17	248.20	-72.00	31.07	19.96
412	9.12	4.76	253.60	-72.10	33.84	19.94
413	9.14	4.42	250.60	-72.10	35.47	19.91
414	9.16	4.37	243.30	-71.70	34.15	19.87
415	9.18	5.07	220.80	-65.60	31.08	19.86
416	9.20	5.74	225.40	-67.20	28.56	19.85
417	9.22	5.59	218.60	-66.50	29.31	19.84
418	9.24	4.60	218.80	-67.30	31.89	19.79
419	9.26	4.23	218.00	-69.30	34.17	19.73
420	9.28	4.38	206.80	-69.20	33.78	19.69
421	9.30	4.54	195.30	-71.90	31.39	19.66
422	9.32	5.09	191.20	-66.70	28.37	19.72
423	9.34	6.14	213.30	-58.10	23.24	19.84
424	9.36	8.54	212.80	-56.00	18.96	19.93
425	9.38	9.61	198.40	-62.50	14.55	19.99
426	9.40	12.28	199.60	-64.60	3.54	20.32
427	9.42	49.58	213.60	-55.50	0.33	20.52

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	0.90	12.81	3.92	8.88	1.00	0.093	1.38	0.068	1.00	1.00	0.068	No
2	0.92	13.10	4.12	8.98	0.99	0.094	1.38	0.069	1.00	1.00	0.069	No
3	0.94	13.40	4.32	9.08	0.99	0.095	1.38	0.069	1.00	1.00	0.069	No
4	0.96	13.70	4.51	9.19	0.99	0.096	1.38	0.070	1.00	1.00	0.070	No
5	0.98	14.00	4.71	9.29	0.99	0.097	1.38	0.071	1.00	1.00	0.071	No
6	1.00	14.30	4.91	9.40	0.99	0.098	1.38	0.071	1.00	1.00	0.071	No
7	1.02	14.61	5.10	9.51	0.99	0.099	1.38	0.072	1.00	1.00	0.072	No
8	1.04	14.91	5.30	9.61	0.99	0.100	1.38	0.073	1.00	1.00	0.073	No
9	1.06	15.22	5.49	9.73	0.99	0.101	1.38	0.073	1.00	1.00	0.073	No
10	1.08	15.53	5.69	9.84	0.99	0.102	1.38	0.074	1.00	1.00	0.074	No
11	1.10	15.85	5.89	9.96	0.99	0.103	1.38	0.075	1.00	1.00	0.075	No
12	1.12	16.17	6.08	10.09	0.99	0.103	1.38	0.075	1.00	1.00	0.075	No
13	1.14	16.50	6.28	10.22	0.99	0.104	1.38	0.076	1.00	1.00	0.076	No
14	1.16	16.82	6.47	10.35	0.99	0.105	1.38	0.076	1.00	1.00	0.076	No
15	1.18	17.14	6.67	10.47	0.99	0.106	1.38	0.077	1.00	1.00	0.077	No
16	1.20	17.47	6.87	10.60	0.99	0.106	1.38	0.077	1.00	1.00	0.077	No
17	1.22	17.79	7.06	10.73	0.99	0.107	1.38	0.078	1.00	1.00	0.078	No
18	1.24	18.12	7.26	10.86	0.99	0.108	1.38	0.078	1.00	1.00	0.078	No
19	1.26	18.45	7.46	10.99	0.99	0.108	1.38	0.079	1.00	1.00	0.079	No
20	1.28	18.78	7.65	11.13	0.99	0.109	1.38	0.079	1.00	1.00	0.079	No
21	1.30	19.11	7.85	11.27	0.99	0.109	1.38	0.080	1.00	1.00	0.080	No
22	1.32	19.45	8.04	11.41	0.99	0.110	1.38	0.080	1.00	1.00	0.080	No
23	1.34	19.79	8.24	11.55	0.99	0.110	1.38	0.080	1.00	1.00	0.080	No
24	1.36	20.12	8.44	11.69	0.99	0.111	1.38	0.081	1.00	1.00	0.081	No
25	1.38	20.46	8.63	11.83	0.99	0.111	1.38	0.081	1.00	1.00	0.081	No
26	1.40	20.80	8.83	11.97	0.99	0.112	1.38	0.081	1.00	1.00	0.081	No
27	1.42	21.14	9.03	12.11	0.99	0.112	1.38	0.082	1.00	1.00	0.082	No
28	1.44	21.48	9.22	12.26	0.99	0.113	1.38	0.082	1.00	1.00	0.082	No
29	1.46	21.82	9.42	12.40	0.99	0.113	1.38	0.082	1.00	1.00	0.082	No
30	1.48	22.16	9.61	12.54	0.99	0.114	1.38	0.083	1.00	1.00	0.083	No
31	1.50	22.50	9.81	12.69	0.99	0.114	1.38	0.083	1.00	1.00	0.083	No
32	1.52	22.84	10.01	12.83	0.99	0.115	1.38	0.083	1.00	1.00	0.083	No
33	1.54	23.18	10.20	12.98	0.99	0.115	1.38	0.084	1.00	1.00	0.084	No
34	1.56	23.52	10.40	13.13	0.99	0.115	1.38	0.084	1.00	1.00	0.084	No
35	1.58	23.87	10.59	13.27	0.99	0.116	1.38	0.084	1.00	1.00	0.084	No
36	1.60	24.21	10.79	13.42	0.99	0.116	1.38	0.084	1.00	1.00	0.084	No
37	1.62	24.56	10.99	13.57	0.99	0.116	1.38	0.085	1.00	1.00	0.085	No
38	1.64	24.91	11.18	13.73	0.99	0.117	1.38	0.085	1.00	1.00	0.085	No
39	1.66	25.26	11.38	13.88	0.99	0.117	1.38	0.085	1.00	1.00	0.085	No
40	1.68	25.61	11.58	14.03	0.99	0.117	1.38	0.085	1.00	1.00	0.085	No
41	1.70	25.96	11.77	14.19	0.99	0.118	1.38	0.085	1.00	1.00	0.085	No
42	1.72	26.31	11.97	14.34	0.99	0.118	1.38	0.086	1.00	1.00	0.086	No
43	1.74	26.66	12.16	14.49	0.99	0.118	1.38	0.086	1.00	1.00	0.086	No
44	1.76	27.01	12.36	14.65	0.99	0.118	1.38	0.086	1.00	1.00	0.086	No
45	1.78	27.36	12.56	14.80	0.99	0.119	1.38	0.086	1.00	1.00	0.086	No
46	1.80	27.70	12.75	14.95	0.99	0.119	1.38	0.086	1.00	1.00	0.086	No
47	1.82	28.05	12.95	15.10	0.99	0.119	1.38	0.087	1.00	1.00	0.087	No
48	1.84	28.39	13.15	15.25	0.99	0.120	1.38	0.087	1.00	1.00	0.087	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	1.86	28.74	13.34	15.40	0.99	0.120	1.38	0.087	1.00	1.00	0.087	No
50	1.88	29.08	13.54	15.55	0.99	0.120	1.38	0.087	1.00	1.00	0.087	No
51	1.90	29.43	13.73	15.70	0.99	0.120	1.38	0.087	1.00	1.00	0.087	No
52	1.92	29.78	13.93	15.85	0.99	0.121	1.38	0.088	1.00	1.00	0.088	No
53	1.94	30.12	14.13	15.99	0.99	0.121	1.38	0.088	1.00	1.00	0.088	No
54	1.96	30.46	14.32	16.14	0.99	0.121	1.38	0.088	1.00	1.00	0.088	No
55	1.98	30.80	14.52	16.29	0.99	0.121	1.38	0.088	1.00	1.00	0.088	No
56	2.00	31.15	14.72	16.43	0.99	0.122	1.38	0.088	1.00	1.00	0.088	No
57	2.02	31.49	14.91	16.57	0.99	0.122	1.38	0.089	1.00	1.00	0.089	No
58	2.04	31.82	15.11	16.72	0.99	0.122	1.38	0.089	1.00	1.00	0.089	No
59	2.06	32.16	15.30	16.86	0.99	0.122	1.38	0.089	1.00	1.00	0.089	No
60	2.08	32.49	15.50	17.00	0.99	0.123	1.38	0.089	1.00	1.00	0.089	No
61	2.10	32.83	15.70	17.13	0.99	0.123	1.38	0.089	1.00	1.00	0.089	No
62	2.12	33.16	15.89	17.27	0.99	0.123	1.38	0.089	1.00	1.00	0.089	No
63	2.14	33.50	16.09	17.41	0.99	0.123	1.38	0.090	1.00	1.00	0.090	No
64	2.16	33.83	16.28	17.55	0.99	0.124	1.38	0.090	1.00	1.00	0.090	No
65	2.18	34.17	16.48	17.69	0.99	0.124	1.38	0.090	1.00	1.00	0.090	No
66	2.20	34.50	16.68	17.83	0.99	0.124	1.38	0.090	1.00	1.00	0.090	No
67	2.22	34.84	16.87	17.97	0.99	0.124	1.38	0.090	1.00	1.00	0.090	No
68	2.24	35.18	17.07	18.11	0.98	0.124	1.38	0.090	1.00	1.00	0.090	No
69	2.26	35.52	17.27	18.25	0.98	0.125	1.38	0.091	1.00	1.00	0.091	No
70	2.28	35.85	17.46	18.39	0.98	0.125	1.38	0.091	1.00	1.00	0.091	No
71	2.30	36.19	17.66	18.53	0.98	0.125	1.38	0.091	1.00	1.00	0.091	No
72	2.32	36.52	17.85	18.67	0.98	0.125	1.38	0.091	1.00	1.00	0.091	No
73	2.34	36.85	18.05	18.80	0.98	0.125	1.38	0.091	1.00	1.00	0.091	No
74	2.36	37.19	18.25	18.94	0.98	0.126	1.38	0.091	1.00	1.00	0.091	No
75	2.38	37.52	18.44	19.08	0.98	0.126	1.38	0.091	1.00	1.00	0.091	No
76	2.40	37.85	18.64	19.21	0.98	0.126	1.38	0.092	1.00	1.00	0.092	No
77	2.42	38.19	18.84	19.35	0.98	0.126	1.38	0.092	1.00	1.00	0.092	No
78	2.44	38.52	19.03	19.49	0.98	0.126	1.38	0.092	1.00	1.00	0.092	No
79	2.46	38.85	19.23	19.63	0.98	0.127	1.38	0.092	1.00	1.00	0.092	No
80	2.48	39.19	19.42	19.76	0.98	0.127	1.38	0.092	1.00	1.00	0.092	No
81	2.50	39.52	19.62	19.90	0.98	0.127	1.38	0.092	1.00	1.00	0.092	No
82	2.52	39.85	19.82	20.03	0.98	0.127	1.38	0.092	1.00	1.00	0.092	No
83	2.54	40.17	20.01	20.16	0.98	0.127	1.38	0.093	1.00	1.00	0.093	No
84	2.56	40.50	20.21	20.29	0.98	0.127	1.38	0.093	1.00	1.00	0.093	No
85	2.58	40.82	20.40	20.42	0.98	0.128	1.38	0.093	1.00	1.00	0.093	No
86	2.60	41.14	20.60	20.54	0.98	0.128	1.38	0.093	1.00	1.00	0.093	No
87	2.62	41.47	20.80	20.67	0.98	0.128	1.38	0.093	1.00	1.00	0.093	No
88	2.64	41.79	20.99	20.80	0.98	0.128	1.38	0.093	1.00	1.00	0.093	No
89	2.66	42.11	21.19	20.92	0.98	0.128	1.38	0.093	1.00	1.00	0.093	No
90	2.68	42.44	21.39	21.05	0.98	0.129	1.38	0.093	1.00	1.00	0.093	No
91	2.70	42.76	21.58	21.18	0.98	0.129	1.38	0.094	1.00	1.00	0.094	No
92	2.72	43.08	21.78	21.30	0.98	0.129	1.38	0.094	1.00	1.00	0.094	No
93	2.74	43.40	21.97	21.43	0.98	0.129	1.38	0.094	1.00	1.00	0.094	No
94	2.76	43.72	22.17	21.55	0.98	0.129	1.38	0.094	1.00	1.00	0.094	No
95	2.78	44.04	22.37	21.68	0.98	0.130	1.38	0.094	1.00	1.00	0.094	No
96	2.80	44.36	22.56	21.80	0.98	0.130	1.38	0.094	1.00	1.00	0.094	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	2.82	44.68	22.76	21.92	0.98	0.130	1.38	0.094	1.00	1.00	0.094	No
98	2.84	45.00	22.96	22.05	0.98	0.130	1.38	0.095	1.00	1.00	0.095	No
99	2.86	45.33	23.15	22.18	0.98	0.130	1.38	0.095	1.00	1.00	0.095	No
100	2.88	45.65	23.35	22.31	0.98	0.130	1.38	0.095	1.00	1.00	0.095	No
101	2.90	45.98	23.54	22.44	0.98	0.131	1.38	0.095	1.00	1.00	0.095	No
102	2.92	46.31	23.74	22.57	0.98	0.131	1.38	0.095	1.00	1.00	0.095	No
103	2.94	46.64	23.94	22.70	0.98	0.131	1.38	0.095	1.00	1.00	0.095	No
104	2.96	46.97	24.13	22.84	0.98	0.131	1.38	0.095	1.00	1.00	0.095	No
105	2.98	47.30	24.33	22.97	0.98	0.131	1.38	0.095	1.00	1.00	0.095	No
106	3.00	47.63	24.53	23.10	0.98	0.131	1.38	0.095	1.00	1.00	0.095	No
107	3.02	47.95	24.72	23.23	0.98	0.131	1.38	0.095	1.00	1.00	0.095	No
108	3.04	48.28	24.92	23.36	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
109	3.06	48.60	25.11	23.49	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
110	3.08	48.93	25.31	23.62	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
111	3.10	49.25	25.51	23.75	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
112	3.12	49.58	25.70	23.88	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
113	3.14	49.91	25.90	24.02	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
114	3.16	50.25	26.09	24.15	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
115	3.18	50.58	26.29	24.29	0.98	0.132	1.38	0.096	1.00	1.00	0.096	No
116	3.20	50.92	26.49	24.43	0.98	0.133	1.38	0.096	1.00	1.00	0.096	No
117	3.22	51.25	26.68	24.56	0.98	0.133	1.38	0.096	1.00	1.00	0.096	No
118	3.24	51.57	26.88	24.69	0.98	0.133	1.38	0.096	1.00	1.00	0.096	No
119	3.26	51.90	27.08	24.83	0.98	0.133	1.38	0.097	1.00	1.00	0.097	No
120	3.28	52.23	27.27	24.96	0.98	0.133	1.38	0.097	1.00	1.00	2.000	Yes
121	3.30	52.56	27.47	25.10	0.98	0.133	1.38	0.097	1.00	1.00	2.000	Yes
122	3.32	52.90	27.66	25.23	0.98	0.133	1.38	0.097	1.00	1.00	2.000	Yes
123	3.34	53.23	27.86	25.37	0.98	0.133	1.38	0.097	1.00	1.00	2.000	Yes
124	3.36	53.56	28.06	25.50	0.98	0.133	1.38	0.097	1.00	1.00	0.097	No
125	3.38	53.88	28.25	25.63	0.98	0.133	1.38	0.097	1.00	1.00	0.097	No
126	3.40	54.21	28.45	25.76	0.98	0.134	1.38	0.097	1.00	1.00	0.097	No
127	3.42	54.53	28.65	25.89	0.98	0.134	1.38	0.097	1.00	1.00	0.097	No
128	3.44	54.86	28.84	26.02	0.98	0.134	1.38	0.097	1.00	1.00	0.097	No
129	3.46	55.19	29.04	26.15	0.98	0.134	1.38	0.097	1.00	1.00	0.097	No
130	3.48	55.51	29.23	26.28	0.98	0.134	1.38	0.097	1.00	1.00	0.097	No
131	3.50	55.84	29.43	26.41	0.98	0.134	1.38	0.097	1.00	1.00	0.097	No
132	3.52	56.17	29.63	26.55	0.98	0.134	1.38	0.098	1.00	1.00	0.098	No
133	3.54	56.51	29.82	26.69	0.98	0.134	1.38	0.098	1.00	1.00	2.000	Yes
134	3.56	56.85	30.02	26.83	0.98	0.134	1.38	0.098	1.00	1.00	2.000	Yes
135	3.58	57.18	30.21	26.97	0.98	0.134	1.38	0.098	1.00	1.00	2.000	Yes
136	3.60	57.52	30.41	27.11	0.98	0.135	1.38	0.098	1.00	1.00	2.000	Yes
137	3.62	57.86	30.61	27.26	0.98	0.135	1.38	0.098	1.00	1.00	2.000	Yes
138	3.64	58.20	30.80	27.40	0.98	0.135	1.38	0.098	1.00	1.00	2.000	Yes
139	3.66	58.53	31.00	27.53	0.97	0.135	1.38	0.098	1.00	1.00	2.000	Yes
140	3.68	58.87	31.20	27.67	0.97	0.135	1.38	0.098	1.00	1.00	2.000	Yes
141	3.70	59.21	31.39	27.82	0.97	0.135	1.38	0.098	1.00	1.00	2.000	Yes
142	3.72	59.55	31.59	27.96	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
143	3.74	59.90	31.78	28.11	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
144	3.76	60.24	31.98	28.26	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	3.78	60.59	32.18	28.41	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
146	3.80	60.93	32.37	28.56	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
147	3.82	61.26	32.57	28.70	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
148	3.84	61.60	32.77	28.83	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
149	3.86	61.93	32.96	28.97	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
150	3.88	62.26	33.16	29.10	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
151	3.90	62.59	33.35	29.24	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
152	3.92	62.93	33.55	29.38	0.97	0.135	1.38	0.098	1.00	1.00	0.098	No
153	3.94	63.27	33.75	29.52	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
154	3.96	63.61	33.94	29.67	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
155	3.98	63.95	34.14	29.81	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
156	4.00	64.29	34.34	29.95	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
157	4.02	64.63	34.53	30.10	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
158	4.04	64.96	34.73	30.24	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
159	4.06	65.30	34.92	30.38	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
160	4.08	65.63	35.12	30.51	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
161	4.10	65.97	35.32	30.65	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
162	4.12	66.30	35.51	30.79	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
163	4.14	66.63	35.71	30.92	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
164	4.16	66.97	35.90	31.06	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
165	4.18	67.30	36.10	31.20	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
166	4.20	67.64	36.30	31.34	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
167	4.22	67.97	36.49	31.48	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
168	4.24	68.31	36.69	31.62	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
169	4.26	68.65	36.89	31.77	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
170	4.28	68.99	37.08	31.91	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
171	4.30	69.33	37.28	32.06	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
172	4.32	69.68	37.47	32.20	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
173	4.34	70.02	37.67	32.35	0.97	0.136	1.38	0.099	1.00	1.00	0.099	No
174	4.36	70.37	37.87	32.50	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
175	4.38	70.71	38.06	32.65	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
176	4.40	71.06	38.26	32.80	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
177	4.42	71.42	38.46	32.96	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
178	4.44	71.77	38.65	33.12	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
179	4.46	72.13	38.85	33.28	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
180	4.48	72.48	39.04	33.44	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
181	4.50	72.84	39.24	33.60	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
182	4.52	73.19	39.44	33.75	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
183	4.54	73.54	39.63	33.91	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
184	4.56	73.90	39.83	34.07	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
185	4.58	74.25	40.02	34.23	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
186	4.60	74.61	40.22	34.39	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
187	4.62	74.97	40.42	34.55	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
188	4.64	75.32	40.61	34.71	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
189	4.66	75.68	40.81	34.87	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
190	4.68	76.03	41.01	35.02	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
191	4.70	76.37	41.20	35.17	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
192	4.72	76.72	41.40	35.32	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	4.74	77.06	41.59	35.47	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
194	4.76	77.41	41.79	35.62	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
195	4.78	77.75	41.99	35.76	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
196	4.80	78.09	42.18	35.90	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
197	4.82	78.43	42.38	36.05	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
198	4.84	78.77	42.58	36.20	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
199	4.86	79.11	42.77	36.34	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
200	4.88	79.46	42.97	36.49	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
201	4.90	79.80	43.16	36.64	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
202	4.92	80.15	43.36	36.79	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
203	4.94	80.50	43.56	36.94	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
204	4.96	80.84	43.75	37.09	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
205	4.98	81.19	43.95	37.24	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
206	5.00	81.54	44.15	37.39	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
207	5.02	81.88	44.34	37.54	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
208	5.04	82.23	44.54	37.70	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
209	5.06	82.58	44.73	37.85	0.97	0.137	1.38	0.099	1.00	1.00	0.099	No
210	5.08	82.94	44.93	38.01	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
211	5.10	83.29	45.13	38.16	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
212	5.12	83.64	45.32	38.32	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
213	5.14	84.00	45.52	38.48	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
214	5.16	84.35	45.71	38.64	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
215	5.18	84.70	45.91	38.79	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
216	5.20	85.04	46.11	38.94	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
217	5.22	85.38	46.30	39.08	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
218	5.24	85.73	46.50	39.23	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
219	5.26	86.07	46.70	39.38	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
220	5.28	86.42	46.89	39.53	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
221	5.30	86.77	47.09	39.68	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
222	5.32	87.11	47.28	39.83	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
223	5.34	87.46	47.48	39.98	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
224	5.36	87.80	47.68	40.13	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
225	5.38	88.15	47.87	40.28	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
226	5.40	88.50	48.07	40.43	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
227	5.42	88.85	48.27	40.58	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
228	5.44	89.19	48.46	40.73	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
229	5.46	89.54	48.66	40.88	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
230	5.48	89.88	48.85	41.03	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
231	5.50	90.23	49.05	41.18	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
232	5.52	90.58	49.25	41.33	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
233	5.54	90.92	49.44	41.48	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
234	5.56	91.27	49.64	41.63	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
235	5.58	91.61	49.83	41.78	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
236	5.60	91.96	50.03	41.92	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
237	5.62	92.30	50.23	42.07	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
238	5.64	92.63	50.42	42.21	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
239	5.66	92.97	50.62	42.35	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
240	5.68	93.29	50.82	42.48	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	5.70	93.62	51.01	42.61	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
242	5.72	93.95	51.21	42.74	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
243	5.74	94.28	51.40	42.88	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
244	5.76	94.62	51.60	43.02	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
245	5.78	94.96	51.80	43.16	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
246	5.80	95.30	51.99	43.31	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
247	5.82	95.64	52.19	43.46	0.96	0.137	1.38	0.100	1.00	1.00	2.000	Yes
248	5.84	95.99	52.39	43.61	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
249	5.86	96.34	52.58	43.76	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
250	5.88	96.69	52.78	43.91	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
251	5.90	97.04	52.97	44.07	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
252	5.92	97.39	53.17	44.22	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
253	5.94	97.75	53.37	44.38	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
254	5.96	98.11	53.56	44.54	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
255	5.98	98.46	53.76	44.70	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
256	6.00	98.82	53.96	44.87	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
257	6.02	99.18	54.15	45.03	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
258	6.04	99.54	54.35	45.19	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
259	6.06	99.90	54.54	45.36	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
260	6.08	100.26	54.74	45.52	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
261	6.10	100.62	54.94	45.69	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
262	6.12	100.99	55.13	45.85	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
263	6.14	101.35	55.33	46.02	0.96	0.137	1.38	0.100	1.00	1.00	0.100	No
264	6.16	101.71	55.52	46.19	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
265	6.18	102.08	55.72	46.36	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
266	6.20	102.44	55.92	46.52	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
267	6.22	102.80	56.11	46.69	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
268	6.24	103.17	56.31	46.86	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
269	6.26	103.54	56.51	47.03	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
270	6.28	103.91	56.70	47.20	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
271	6.30	104.27	56.90	47.37	0.96	0.137	1.38	0.099	1.00	1.00	0.099	No
272	6.32	104.64	57.09	47.54	0.95	0.137	1.38	0.099	1.00	1.00	0.099	No
273	6.34	105.00	57.29	47.71	0.95	0.137	1.38	0.099	1.00	1.00	0.099	No
274	6.36	105.36	57.49	47.88	0.95	0.137	1.38	0.099	1.00	1.00	0.099	No
275	6.38	105.72	57.68	48.04	0.95	0.137	1.38	0.099	1.00	1.00	0.099	No
276	6.40	106.08	57.88	48.20	0.95	0.137	1.38	0.099	1.00	1.00	0.099	No
277	6.42	106.43	58.08	48.36	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
278	6.44	106.79	58.27	48.52	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
279	6.46	107.14	58.47	48.68	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
280	6.48	107.51	58.66	48.84	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
281	6.50	107.87	58.86	49.01	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
282	6.52	108.24	59.06	49.18	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
283	6.54	108.60	59.25	49.35	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
284	6.56	108.96	59.45	49.51	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
285	6.58	109.32	59.64	49.68	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
286	6.60	109.67	59.84	49.83	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
287	6.62	110.02	60.04	49.99	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
288	6.64	110.37	60.23	50.13	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	6.66	110.70	60.43	50.28	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
290	6.68	111.04	60.63	50.42	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
291	6.70	111.38	60.82	50.56	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
292	6.72	111.72	61.02	50.70	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
293	6.74	112.07	61.21	50.85	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
294	6.76	112.42	61.41	51.01	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
295	6.78	112.77	61.61	51.16	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
296	6.80	113.12	61.80	51.32	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
297	6.82	113.47	62.00	51.47	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
298	6.84	113.82	62.20	51.62	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
299	6.86	114.16	62.39	51.77	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
300	6.88	114.51	62.59	51.92	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
301	6.90	114.85	62.78	52.06	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
302	6.92	115.18	62.98	52.20	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
303	6.94	115.52	63.18	52.34	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
304	6.96	115.85	63.37	52.48	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
305	6.98	116.18	63.57	52.61	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
306	7.00	116.51	63.77	52.75	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
307	7.02	116.85	63.96	52.89	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
308	7.04	117.19	64.16	53.03	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
309	7.06	117.54	64.35	53.19	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
310	7.08	117.89	64.55	53.34	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
311	7.10	118.24	64.75	53.49	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
312	7.12	118.59	64.94	53.64	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
313	7.14	118.93	65.14	53.79	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
314	7.16	119.27	65.33	53.94	0.95	0.136	1.38	0.099	1.00	1.00	2.000	Yes
315	7.18	119.61	65.53	54.08	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
316	7.20	119.95	65.73	54.22	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
317	7.22	120.28	65.92	54.36	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
318	7.24	120.62	66.12	54.50	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
319	7.26	120.96	66.32	54.64	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
320	7.28	121.30	66.51	54.79	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
321	7.30	121.64	66.71	54.93	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
322	7.32	121.98	66.90	55.08	0.95	0.136	1.38	0.099	1.00	1.00	0.099	No
323	7.34	122.31	67.10	55.21	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
324	7.36	122.64	67.30	55.34	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
325	7.38	122.97	67.49	55.48	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
326	7.40	123.30	67.69	55.61	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
327	7.42	123.63	67.89	55.74	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
328	7.44	123.96	68.08	55.88	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
329	7.46	124.29	68.28	56.01	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
330	7.48	124.61	68.47	56.14	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
331	7.50	124.94	68.67	56.27	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
332	7.52	125.27	68.87	56.41	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
333	7.54	125.60	69.06	56.54	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
334	7.56	125.93	69.26	56.67	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
335	7.58	126.26	69.45	56.80	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
336	7.60	126.59	69.65	56.94	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	7.62	126.92	69.85	57.07	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
338	7.64	127.26	70.04	57.21	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
339	7.66	127.59	70.24	57.35	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
340	7.68	127.92	70.44	57.49	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
341	7.70	128.25	70.63	57.62	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
342	7.72	128.58	70.83	57.76	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
343	7.74	128.91	71.02	57.89	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
344	7.76	129.25	71.22	58.03	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
345	7.78	129.58	71.42	58.16	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
346	7.80	129.91	71.61	58.30	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
347	7.82	130.23	71.81	58.43	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
348	7.84	130.56	72.01	58.55	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
349	7.86	130.88	72.20	58.68	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
350	7.88	131.21	72.40	58.81	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
351	7.90	131.54	72.59	58.95	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
352	7.92	131.88	72.79	59.09	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
353	7.94	132.21	72.99	59.23	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
354	7.96	132.55	73.18	59.36	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
355	7.98	132.88	73.38	59.50	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
356	8.00	133.21	73.58	59.63	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
357	8.02	133.53	73.77	59.76	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
358	8.04	133.85	73.97	59.89	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
359	8.06	134.17	74.16	60.01	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
360	8.08	134.50	74.36	60.14	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
361	8.10	134.82	74.56	60.26	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
362	8.12	135.14	74.75	60.39	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
363	8.14	135.46	74.95	60.52	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
364	8.16	135.79	75.14	60.64	0.94	0.136	1.38	0.099	1.00	1.00	0.099	No
365	8.18	136.12	75.34	60.78	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
366	8.20	136.45	75.54	60.91	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
367	8.22	136.78	75.73	61.05	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
368	8.24	137.12	75.93	61.19	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
369	8.26	137.45	76.13	61.32	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
370	8.28	137.78	76.32	61.46	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
371	8.30	138.11	76.52	61.59	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
372	8.32	138.44	76.71	61.72	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
373	8.34	138.77	76.91	61.86	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
374	8.36	139.10	77.11	61.99	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
375	8.38	139.43	77.30	62.13	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
376	8.40	139.76	77.50	62.27	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
377	8.42	140.10	77.70	62.40	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
378	8.44	140.44	77.89	62.54	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
379	8.46	140.78	78.09	62.69	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
380	8.48	141.13	78.28	62.85	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
381	8.50	141.49	78.48	63.01	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
382	8.52	141.85	78.68	63.18	0.93	0.136	1.38	0.099	1.00	1.00	0.099	No
383	8.54	142.22	78.87	63.35	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
384	8.56	142.60	79.07	63.53	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	8.58	142.97	79.26	63.70	0.93	0.136	1.38	0.099	1.00	1.00	2.000	Yes
386	8.60	143.34	79.46	63.88	0.93	0.136	1.38	0.098	1.00	1.00	2.000	Yes
387	8.62	143.72	79.66	64.06	0.93	0.135	1.38	0.098	1.00	1.00	2.000	Yes
388	8.64	144.10	79.85	64.24	0.93	0.135	1.38	0.098	1.00	1.00	2.000	Yes
389	8.66	144.47	80.05	64.42	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
390	8.68	144.85	80.25	64.60	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
391	8.70	145.23	80.44	64.78	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
392	8.72	145.60	80.64	64.97	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
393	8.74	145.98	80.83	65.15	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
394	8.76	146.36	81.03	65.33	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
395	8.78	146.74	81.23	65.51	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
396	8.80	147.12	81.42	65.69	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
397	8.82	147.50	81.62	65.88	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
398	8.84	147.88	81.82	66.06	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
399	8.86	148.26	82.01	66.25	0.93	0.135	1.38	0.098	1.00	1.00	0.098	No
400	8.88	148.64	82.21	66.43	0.92	0.134	1.38	0.098	1.00	1.00	0.098	No
401	8.90	149.03	82.40	66.62	0.92	0.134	1.38	0.098	1.00	1.00	0.098	No
402	8.92	149.41	82.60	66.81	0.92	0.134	1.38	0.098	1.00	1.00	0.098	No
403	8.94	149.80	82.80	67.00	0.92	0.134	1.38	0.098	1.00	1.00	0.098	No
404	8.96	150.19	82.99	67.20	0.92	0.134	1.38	0.098	1.00	1.00	0.098	No
405	8.98	150.58	83.19	67.40	0.92	0.134	1.38	0.097	1.00	1.00	0.097	No
406	9.00	150.98	83.39	67.60	0.92	0.134	1.38	0.097	1.00	1.00	2.000	Yes
407	9.02	151.38	83.58	67.80	0.92	0.134	1.38	0.097	1.00	1.00	2.000	Yes
408	9.04	151.78	83.78	68.00	0.92	0.134	1.38	0.097	1.00	1.00	2.000	Yes
409	9.06	152.18	83.97	68.20	0.92	0.134	1.38	0.097	1.00	1.00	2.000	Yes
410	9.08	152.58	84.17	68.41	0.92	0.134	1.38	0.097	1.00	1.00	2.000	Yes
411	9.10	152.98	84.37	68.61	0.92	0.134	1.38	0.097	1.00	1.00	2.000	Yes
412	9.12	153.37	84.56	68.81	0.92	0.133	1.38	0.097	1.00	1.00	2.000	Yes
413	9.14	153.77	84.76	69.01	0.92	0.133	1.38	0.097	1.00	1.00	2.000	Yes
414	9.16	154.17	84.95	69.22	0.92	0.133	1.38	0.097	1.00	1.00	0.097	No
415	9.18	154.57	85.15	69.42	0.92	0.133	1.38	0.097	1.00	1.00	0.097	No
416	9.20	154.96	85.35	69.62	0.92	0.133	1.38	0.097	1.00	1.00	0.097	No
417	9.22	155.36	85.54	69.82	0.92	0.133	1.38	0.097	1.00	1.00	0.097	No
418	9.24	155.76	85.74	70.02	0.92	0.133	1.38	0.097	1.00	1.00	0.097	No
419	9.26	156.15	85.94	70.22	0.92	0.133	1.38	0.097	1.00	1.00	0.097	No
420	9.28	156.55	86.13	70.41	0.92	0.133	1.38	0.096	1.00	1.00	2.000	Yes
421	9.30	156.94	86.33	70.61	0.92	0.133	1.38	0.096	1.00	1.00	2.000	Yes
422	9.32	157.33	86.52	70.81	0.92	0.133	1.38	0.096	1.00	1.00	2.000	Yes
423	9.34	157.73	86.72	71.01	0.92	0.132	1.38	0.096	1.00	1.00	2.000	Yes
424	9.36	158.13	86.92	71.21	0.92	0.132	1.38	0.096	1.00	1.00	2.000	Yes
425	9.38	158.53	87.11	71.42	0.92	0.132	1.38	0.096	1.00	1.00	2.000	Yes
426	9.40	158.93	87.31	71.63	0.92	0.132	1.38	0.096	1.00	1.00	0.096	No
427	9.42	159.35	87.51	71.84	0.92	0.132	1.38	0.096	1.00	1.00	0.096	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	0.90	0.30	3.06	1.54	1.00	5.65	9.86	55.69	0.270	No	Yes	2.00
2	0.92	0.41	2.91	1.35	0.96	7.87	7.30	57.42	0.375	No	Yes	2.00
3	0.94	0.56	2.76	1.18	0.91	10.79	5.36	57.79	0.515	No	Yes	2.00
4	0.96	0.70	2.65	1.06	0.86	13.57	7.38	100.16	0.156	No	No	2.00
5	0.98	0.74	2.61	0.98	0.85	14.31	5.85	83.66	0.121	No	No	1.71
6	1.00	0.70	2.65	1.04	0.86	13.48	7.30	98.42	0.152	No	No	2.00
7	1.02	0.71	2.65	1.08	0.86	13.76	7.27	100.03	0.156	No	No	2.00
8	1.04	0.75	2.62	1.06	0.85	14.47	6.33	91.60	0.136	No	No	1.87
9	1.06	0.82	2.60	1.12	0.84	15.98	5.35	85.56	0.138	No	No	1.88
10	1.08	0.89	2.58	1.18	0.84	17.25	4.74	81.84	0.131	No	No	1.77
11	1.10	0.92	2.58	1.26	0.84	17.94	4.75	85.18	0.137	No	No	1.84
12	1.12	0.88	2.70	1.97	0.88	17.02	4.74	80.70	0.812	No	Yes	2.00
13	1.14	0.75	2.82	2.53	0.93	14.43	6.15	88.75	0.688	No	Yes	2.00
14	1.16	0.61	2.97	3.40	0.99	11.79	8.28	97.64	0.563	No	Yes	2.00
15	1.18	0.57	2.98	3.18	0.99	10.92	8.45	92.20	0.521	No	Yes	2.00
16	1.20	0.58	2.99	3.38	0.99	11.17	8.57	95.75	0.533	No	Yes	2.00
17	1.22	0.62	2.97	3.43	0.99	11.90	8.26	98.35	0.568	No	Yes	2.00
18	1.24	0.66	2.95	3.39	0.98	12.62	7.89	99.57	0.602	No	Yes	2.00
19	1.26	0.68	2.94	3.52	0.98	13.04	7.87	102.61	0.622	No	Yes	2.00
20	1.28	0.67	2.97	3.90	0.99	12.93	8.35	107.92	0.617	No	Yes	2.00
21	1.30	0.67	3.01	4.32	1.00	12.76	8.87	113.19	0.608	No	Yes	2.00
22	1.32	0.66	3.04	4.75	1.00	12.55	9.43	118.31	0.599	No	Yes	2.00
23	1.34	0.64	3.07	5.24	1.00	12.25	10.07	123.33	0.584	No	Yes	2.00
24	1.36	0.62	3.11	5.81	1.00	11.83	10.85	128.28	0.564	No	Yes	2.00
25	1.38	0.61	3.14	6.21	1.00	11.55	11.39	131.51	0.551	No	Yes	2.00
26	1.40	0.61	3.13	6.17	1.00	11.65	11.28	131.49	0.556	No	Yes	2.00
27	1.42	0.63	3.11	5.86	1.00	12.07	10.76	129.93	0.576	No	Yes	2.00
28	1.44	0.66	3.07	5.50	1.00	12.64	10.12	127.92	0.603	No	Yes	2.00
29	1.46	0.70	3.04	5.20	1.00	13.38	9.49	126.89	0.638	No	Yes	2.00
30	1.48	0.74	3.00	4.89	1.00	14.19	8.84	125.42	0.677	No	Yes	2.00
31	1.50	0.79	2.96	4.58	0.98	15.23	8.15	124.10	0.727	No	Yes	2.00
32	1.52	0.86	2.92	4.31	0.97	16.58	7.45	123.47	0.791	No	Yes	2.00
33	1.54	0.94	2.87	4.08	0.95	18.05	6.81	122.98	0.861	No	Yes	2.00
34	1.56	1.05	2.81	3.70	0.93	20.33	5.92	120.39	0.970	No	Yes	2.00
35	1.58	1.15	2.75	3.40	0.90	22.28	5.27	117.45	1.063	No	Yes	2.00
36	1.60	1.24	2.71	3.24	0.89	23.93	4.86	116.29	1.141	No	Yes	2.00
37	1.62	1.25	2.72	3.34	0.89	24.23	4.91	118.84	1.156	No	Yes	2.00
38	1.64	1.26	2.73	3.46	0.90	24.40	4.99	121.73	1.164	No	Yes	2.00
39	1.66	1.28	2.72	3.51	0.90	24.79	4.97	123.31	1.183	No	Yes	2.00
40	1.68	1.32	2.71	3.47	0.89	25.48	4.84	123.26	1.216	No	Yes	2.00
41	1.70	1.34	2.70	3.44	0.89	26.00	4.74	123.23	1.240	No	Yes	2.00
42	1.72	1.36	2.69	3.39	0.88	26.42	9.82	259.38	3.600	No	No	2.00
43	1.74	1.38	2.69	3.34	0.88	26.73	9.31	248.90	3.600	No	No	2.00
44	1.76	1.39	2.68	3.26	0.88	26.92	8.79	236.70	3.600	No	No	2.00
45	1.78	1.37	2.68	3.21	0.88	26.51	8.87	235.23	3.600	No	No	2.00
46	1.80	1.33	2.69	3.23	0.88	25.64	9.61	246.48	3.600	No	No	2.00
47	1.82	1.29	2.70	3.25	0.89	24.91	4.72	117.72	1.188	No	Yes	2.00
48	1.84	1.27	2.68	2.94	0.88	24.45	8.99	219.95	3.600	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	1.86	1.32	2.65	2.83	0.87	25.55	7.68	196.25	0.705	No	No	2.00
50	1.88	1.33	2.65	2.81	0.87	25.65	7.54	193.51	0.679	No	No	2.00
51	1.90	1.32	2.68	3.09	0.88	25.53	8.96	228.71	3.600	No	No	2.00
52	1.92	1.25	2.70	3.11	0.89	24.08	4.72	113.61	1.148	No	Yes	2.00
53	1.94	1.21	2.70	3.02	0.89	23.35	4.74	110.70	1.114	No	Yes	2.00
54	1.96	1.18	2.71	2.97	0.89	22.74	4.79	108.94	1.085	No	Yes	2.00
55	1.98	1.15	2.72	3.01	0.89	22.17	4.92	109.02	1.058	No	Yes	2.00
56	2.00	1.13	2.73	3.03	0.90	21.62	5.03	108.86	1.031	No	Yes	2.00
57	2.02	1.11	2.73	2.95	0.90	21.31	5.00	106.57	1.017	No	Yes	2.00
58	2.04	1.12	2.70	2.69	0.89	21.40	4.72	101.12	1.021	No	Yes	2.00
59	2.06	1.14	2.67	2.42	0.87	21.88	8.24	180.26	0.562	No	No	2.00
60	2.08	1.17	2.63	2.18	0.86	22.52	6.52	146.78	0.337	No	No	2.00
61	2.10	1.20	2.60	2.01	0.85	23.07	5.41	124.79	0.235	No	No	2.00
62	2.12	1.22	2.58	1.93	0.84	23.49	4.84	113.69	0.217	No	No	2.00
63	2.14	1.24	2.58	1.92	0.84	23.77	4.70	111.72	0.210	No	No	2.00
64	2.16	1.23	2.60	2.08	0.85	23.56	5.45	128.47	0.249	No	No	2.00
65	2.18	1.19	2.64	2.29	0.86	22.81	6.86	156.41	0.392	No	No	2.00
66	2.20	1.14	2.68	2.55	0.88	21.77	9.06	197.25	0.714	No	No	2.00
67	2.22	1.09	2.71	2.70	0.89	20.82	4.84	100.72	0.993	No	Yes	2.00
68	2.24	1.06	2.73	2.79	0.90	20.33	5.02	102.04	0.970	No	Yes	2.00
69	2.26	1.05	2.73	2.80	0.90	20.05	5.08	101.96	0.956	No	Yes	2.00
70	2.28	1.05	2.72	2.67	0.90	20.09	4.94	99.17	0.958	No	Yes	2.00
71	2.30	1.05	2.71	2.53	0.89	20.07	4.79	96.21	0.957	No	Yes	2.00
72	2.32	1.06	2.68	2.33	0.88	20.29	9.17	186.04	0.611	No	No	2.00
73	2.34	1.12	2.64	2.11	0.86	21.36	6.94	148.28	0.345	No	No	2.00
74	2.36	1.19	2.58	1.86	0.84	22.84	4.88	111.44	0.209	No	No	2.00
75	2.38	1.27	2.55	1.76	0.83	24.24	3.86	93.67	0.156	No	No	1.71
76	2.40	1.29	2.55	1.81	0.83	24.79	3.86	95.58	0.161	No	No	1.76
77	2.42	1.30	2.56	1.88	0.83	25.00	4.04	101.07	0.176	No	No	1.92
78	2.44	1.31	2.55	1.86	0.83	25.03	3.93	98.35	0.168	No	No	1.83
79	2.46	1.30	2.54	1.78	0.83	24.89	3.70	92.12	0.153	No	No	1.66
80	2.48	1.29	2.54	1.72	0.83	24.72	3.55	87.84	0.143	No	No	1.55
81	2.50	1.27	2.53	1.63	0.82	24.30	3.41	82.90	0.133	No	No	1.44
82	2.52	1.25	2.52	1.52	0.82	23.97	3.14	75.21	0.120	No	No	1.29
83	2.54	1.24	2.50	1.38	0.81	23.66	2.97	70.29	0.112	No	No	1.21
84	2.56	1.23	2.49	1.31	0.81	23.51	2.90	68.20	0.110	No	No	1.18
85	2.58	1.22	2.49	1.28	0.81	23.31	2.88	67.24	0.108	No	No	1.17
86	2.60	1.21	2.49	1.29	0.81	23.00	2.93	67.50	0.109	No	No	1.17
87	2.62	1.19	2.50	1.30	0.81	22.75	2.97	67.54	0.109	No	No	1.17
88	2.64	1.18	2.50	1.30	0.81	22.51	2.87	64.51	0.105	No	No	1.13
89	2.66	1.17	2.50	1.29	0.81	22.30	2.89	64.36	0.105	No	No	1.12
90	2.68	1.17	2.51	1.29	0.82	22.22	2.91	64.76	0.105	No	No	1.13
91	2.70	1.17	2.51	1.29	0.82	22.19	2.91	64.63	0.105	No	No	1.12
92	2.72	1.17	2.50	1.27	0.81	22.15	2.87	63.54	0.104	No	No	1.11
93	2.74	1.15	2.51	1.27	0.82	21.90	2.94	64.38	0.105	No	No	1.12
94	2.76	1.14	2.51	1.25	0.82	21.61	2.98	64.38	0.105	No	No	1.11
95	2.78	1.14	2.50	1.22	0.81	21.62	2.87	61.93	0.102	No	No	1.08
96	2.80	1.17	2.48	1.17	0.81	22.27	2.86	63.73	0.104	No	No	1.10

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	2.82	1.23	2.45	1.10	0.79	23.47	2.65	62.19	0.102	No	No	1.08
98	2.84	1.30	2.42	1.06	0.78	24.85	2.48	61.76	0.102	No	No	1.08
99	2.86	1.36	2.41	1.09	0.78	25.91	2.43	62.93	0.103	No	No	1.09
100	2.88	1.40	2.41	1.16	0.78	26.71	2.45	65.41	0.106	No	No	1.12
101	2.90	1.42	2.43	1.25	0.79	27.02	2.52	68.05	0.109	No	No	1.15
102	2.92	1.41	2.44	1.31	0.79	26.85	2.60	69.76	0.112	No	No	1.17
103	2.94	1.37	2.47	1.41	0.80	26.18	2.76	72.19	0.115	No	No	1.21
104	2.96	1.35	2.48	1.43	0.81	25.66	2.83	72.67	0.116	No	No	1.22
105	2.98	1.35	2.47	1.39	0.80	25.67	2.79	71.58	0.114	No	No	1.20
106	3.00	1.36	2.45	1.31	0.80	25.94	2.68	69.42	0.111	No	No	1.16
107	3.02	1.37	2.45	1.28	0.79	26.00	2.63	68.49	0.110	No	No	1.15
108	3.04	1.36	2.45	1.29	0.80	25.86	2.66	68.70	0.110	No	No	1.15
109	3.06	1.49	2.35	0.98	0.76	28.53	2.14	61.02	0.101	No	No	1.06
110	3.08	1.62	2.30	0.88	0.74	30.95	1.91	59.04	0.099	No	No	1.03
111	3.10	1.71	2.26	0.81	0.72	32.75	1.78	58.20	0.098	No	No	1.03
112	3.12	1.63	2.35	1.13	0.76	31.10	2.14	66.54	0.107	No	No	1.12
113	3.14	1.53	2.43	1.40	0.79	29.25	2.51	73.49	0.117	No	No	1.22
114	3.16	1.46	2.48	1.63	0.81	27.82	2.85	79.27	0.126	No	No	1.31
115	3.18	1.45	2.48	1.60	0.81	27.61	2.83	78.23	0.125	No	No	1.29
116	3.20	1.46	2.46	1.47	0.80	27.72	2.70	74.83	0.119	No	No	1.24
117	3.22	1.48	2.42	1.31	0.79	28.18	2.50	70.40	0.112	No	No	1.17
118	3.24	1.50	2.40	1.24	0.78	28.51	2.40	68.38	0.110	No	No	1.14
119	3.26	1.53	2.39	1.19	0.77	29.22	2.31	67.38	0.108	No	No	1.12
120	3.28	1.54	2.40	1.25	0.78	29.34	2.35	69.05	4.000	Yes	No	2.00
121	3.30	1.48	2.43	1.35	0.79	28.17	2.54	71.62	4.000	Yes	No	2.00
122	3.32	1.38	2.50	1.61	0.81	26.14	2.98	77.86	4.000	Yes	No	2.00
123	3.34	1.30	2.52	1.62	0.82	24.64	3.26	80.32	4.000	Yes	No	2.00
124	3.36	1.28	2.51	1.48	0.82	24.29	2.93	71.07	0.113	No	No	1.17
125	3.38	1.32	2.45	1.21	0.79	24.99	2.64	65.91	0.107	No	No	1.10
126	3.40	1.33	2.44	1.20	0.79	25.26	2.60	65.72	0.106	No	No	1.10
127	3.42	1.33	2.46	1.28	0.80	25.20	2.70	68.03	0.109	No	No	1.12
128	3.44	1.33	2.47	1.34	0.80	25.21	2.77	69.94	0.112	No	No	1.15
129	3.46	1.39	2.44	1.27	0.79	26.31	2.59	68.20	0.110	No	No	1.13
130	3.48	1.49	2.39	1.17	0.77	28.40	2.33	66.25	0.107	No	No	1.10
131	3.50	1.66	2.33	1.04	0.75	31.63	2.02	64.02	0.104	No	No	1.07
132	3.52	1.99	2.23	0.93	0.71	38.24	1.70	64.85	0.105	No	No	1.08
133	3.54	2.17	2.20	0.91	0.70	41.65	1.60	66.74	4.000	Yes	No	2.00
134	3.56	2.13	2.25	1.10	0.72	40.85	1.74	71.08	4.000	Yes	No	2.00
135	3.58	1.78	2.39	1.49	0.77	33.98	2.31	78.38	4.000	Yes	No	2.00
136	3.60	1.48	2.53	2.01	0.83	28.14	3.43	96.55	4.000	Yes	No	2.00
137	3.62	1.37	2.57	2.08	0.84	25.88	4.42	114.31	4.000	Yes	No	2.00
138	3.64	1.50	2.48	1.71	0.81	28.50	2.87	81.91	4.000	Yes	No	2.00
139	3.66	1.96	2.27	1.08	0.73	37.52	1.83	68.54	4.000	Yes	No	2.00
140	3.68	2.60	2.10	0.80	0.66	50.13	1.41	70.83	4.000	Yes	No	2.00
141	3.70	3.17	1.99	0.69	0.62	61.34	1.30	79.61	4.000	Yes	No	2.00
142	3.72	3.48	1.97	0.74	0.61	67.42	1.28	86.51	0.140	No	No	1.43
143	3.74	3.45	2.00	0.82	0.62	66.98	1.30	87.32	0.142	No	No	1.45
144	3.76	3.20	2.06	0.95	0.65	61.93	1.37	84.67	0.136	No	No	1.39

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	3.78	2.82	2.12	1.00	0.67	54.54	1.45	79.05	0.126	No	No	1.28
146	3.80	2.49	2.16	0.98	0.69	47.93	1.52	73.04	0.116	No	No	1.18
147	3.82	2.27	2.18	0.94	0.70	43.58	1.58	68.69	0.110	No	No	1.12
148	3.84	2.12	2.21	0.94	0.71	40.66	1.64	66.80	0.108	No	No	1.10
149	3.86	2.03	2.23	0.97	0.72	38.94	1.71	66.41	0.107	No	No	1.09
150	3.88	2.08	2.20	0.87	0.70	39.85	1.61	64.19	0.105	No	No	1.06
151	3.90	2.25	2.15	0.80	0.68	43.22	1.51	65.15	0.106	No	No	1.07
152	3.92	2.41	2.14	0.86	0.68	46.26	1.49	69.01	0.111	No	No	1.12
153	3.94	2.42	2.17	0.98	0.69	46.43	1.55	71.99	0.115	No	No	1.16
154	3.96	2.35	2.21	1.10	0.71	45.13	1.64	74.09	0.118	No	No	1.20
155	3.98	2.41	2.20	1.07	0.70	46.22	1.60	74.09	0.118	No	No	1.20
156	4.00	2.51	2.16	0.97	0.69	48.30	1.52	73.25	0.117	No	No	1.18
157	4.02	2.54	2.13	0.88	0.68	48.77	1.46	71.32	0.114	No	No	1.15
158	4.04	2.36	2.16	0.89	0.69	45.35	1.52	68.88	0.110	No	No	1.12
159	4.06	2.13	2.23	1.02	0.71	40.69	1.69	68.88	0.110	No	No	1.12
160	4.08	2.04	2.26	1.07	0.72	38.94	1.77	69.06	0.111	No	No	1.12
161	4.10	2.18	2.20	0.93	0.70	41.68	1.61	67.03	0.108	No	No	1.09
162	4.12	2.40	2.10	0.72	0.67	46.09	1.42	65.51	0.106	No	No	1.07
163	4.14	2.56	2.07	0.70	0.65	49.13	1.38	67.81	0.109	No	No	1.10
164	4.16	2.59	2.08	0.73	0.66	49.86	1.39	69.21	0.111	No	No	1.12
165	4.18	2.65	2.08	0.78	0.66	50.89	1.40	71.05	0.113	No	No	1.15
166	4.20	2.85	2.03	0.70	0.64	54.95	1.34	73.39	0.117	No	No	1.18
167	4.22	3.09	1.98	0.63	0.62	59.69	1.29	77.02	0.122	No	No	1.24
168	4.24	3.38	1.93	0.58	0.60	65.39	1.25	82.00	0.131	No	No	1.33
169	4.26	3.50	1.93	0.63	0.60	67.72	1.26	85.11	0.137	No	No	1.39
170	4.28	3.37	1.96	0.69	0.61	65.09	1.28	83.32	0.134	No	No	1.35
171	4.30	3.19	2.01	0.76	0.63	61.57	1.31	80.94	0.129	No	No	1.30
172	4.32	3.03	2.05	0.82	0.65	58.51	1.35	78.98	0.126	No	No	1.27
173	4.34	3.17	2.04	0.86	0.64	61.11	1.35	82.20	0.132	No	No	1.33
174	4.36	3.39	2.03	0.89	0.64	65.46	1.33	87.04	0.141	No	No	1.42
175	4.38	3.62	1.99	0.83	0.62	70.15	1.30	90.86	0.150	No	No	1.51
176	4.40	3.81	1.97	0.83	0.62	73.87	1.28	94.66	0.159	No	No	1.60
177	4.42	3.88	1.98	0.91	0.62	75.26	1.29	97.24	0.166	No	No	1.67
178	4.44	3.93	2.01	1.04	0.63	76.08	1.32	100.31	0.174	No	No	1.75
179	4.46	3.94	2.04	1.13	0.64	76.28	1.34	102.17	0.179	No	No	1.81
180	4.48	3.82	2.05	1.13	0.65	74.06	1.35	100.01	0.173	No	No	1.74
181	4.50	3.63	2.06	1.13	0.65	70.19	1.37	96.20	0.163	No	No	1.64
182	4.52	3.35	2.09	1.11	0.66	64.74	1.40	90.61	0.149	No	No	1.50
183	4.54	3.25	2.11	1.17	0.67	62.73	1.44	90.07	0.148	No	No	1.49
184	4.56	3.34	2.11	1.23	0.67	64.46	1.44	92.86	0.154	No	No	1.56
185	4.58	3.54	2.10	1.25	0.67	68.41	1.42	96.95	0.165	No	No	1.66
186	4.60	3.59	2.10	1.27	0.67	69.41	1.42	98.32	0.168	No	No	1.70
187	4.62	3.53	2.11	1.30	0.67	68.15	1.44	97.83	0.167	No	No	1.68
188	4.64	3.46	2.12	1.31	0.68	66.76	1.45	96.86	0.165	No	No	1.66
189	4.66	3.52	2.08	1.17	0.66	67.98	1.40	94.84	0.159	No	No	1.61
190	4.68	3.63	2.02	0.94	0.64	69.10	1.33	91.63	0.152	No	No	1.53
191	4.70	3.74	1.97	0.78	0.62	69.65	1.28	89.40	0.146	No	No	1.48
192	4.72	3.87	1.93	0.69	0.61	70.93	1.26	89.34	0.146	No	No	1.47

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	4.74	3.80	1.94	0.69	0.61	69.56	1.26	87.92	0.143	No	No	1.44
194	4.76	3.42	2.00	0.76	0.63	63.60	1.30	82.96	0.133	No	No	1.34
195	4.78	2.80	2.08	0.84	0.66	53.46	1.40	74.71	0.119	No	No	1.20
196	4.80	2.21	2.24	1.12	0.72	42.08	1.72	72.47	0.115	No	No	1.16
197	4.82	1.93	2.36	1.46	0.77	36.64	2.16	78.96	0.126	No	No	1.27
198	4.84	2.08	2.34	1.53	0.76	39.55	2.09	82.58	0.132	No	No	1.33
199	4.86	2.40	2.23	1.21	0.72	45.76	1.70	77.57	0.123	No	No	1.24
200	4.88	2.56	2.18	1.10	0.70	48.93	1.57	76.94	0.122	No	No	1.23
201	4.90	2.37	2.26	1.32	0.73	45.21	1.77	80.02	0.128	No	No	1.28
202	4.92	2.03	2.39	1.80	0.78	38.47	2.34	89.91	0.148	No	No	1.48
203	4.94	1.82	2.48	2.17	0.81	34.35	2.86	98.18	0.168	No	No	1.69
204	4.96	1.88	2.44	1.95	0.80	35.56	2.61	92.78	0.154	No	No	1.55
205	4.98	2.13	2.36	1.66	0.77	40.37	2.16	87.08	0.141	No	No	1.42
206	5.00	2.29	2.30	1.47	0.74	43.61	1.91	83.43	0.134	No	No	1.35
207	5.02	2.24	2.33	1.63	0.76	42.55	2.05	87.33	0.142	No	No	1.43
208	5.04	2.10	2.39	1.88	0.78	39.86	2.34	93.31	0.156	No	No	1.56
209	5.06	2.14	2.40	1.98	0.78	40.53	2.38	96.54	0.164	No	No	1.65
210	5.08	2.36	2.34	1.82	0.76	44.92	2.11	94.65	0.159	No	No	1.60
211	5.10	2.77	2.25	1.61	0.73	53.09	1.77	93.79	0.157	No	No	1.58
212	5.12	3.19	2.16	1.31	0.69	60.02	1.52	91.11	0.150	No	No	1.51
213	5.14	3.50	2.10	1.16	0.67	64.42	1.42	91.38	0.151	No	No	1.52
214	5.16	3.52	2.08	1.05	0.66	64.21	1.39	88.94	0.145	No	No	1.46
215	5.18	3.14	2.12	1.06	0.68	57.67	1.44	83.22	0.134	No	No	1.34
216	5.20	2.75	2.16	1.06	0.69	50.89	1.52	77.32	0.123	No	No	1.24
217	5.22	2.47	2.19	1.05	0.70	46.00	1.59	73.31	0.117	No	No	1.17
218	5.24	2.42	2.22	1.17	0.72	45.55	1.67	76.17	0.121	No	No	1.22
219	5.26	2.33	2.27	1.35	0.73	44.23	1.82	80.41	0.128	No	No	1.29
220	5.28	2.24	2.32	1.55	0.75	42.41	2.01	85.12	0.137	No	No	1.38
221	5.30	2.25	2.32	1.57	0.75	42.62	2.01	85.84	0.139	No	No	1.40
222	5.32	2.22	2.33	1.57	0.76	42.11	2.03	85.49	0.138	No	No	1.39
223	5.34	2.14	2.35	1.61	0.76	40.56	2.11	85.67	0.138	No	No	1.39
224	5.36	2.15	2.33	1.53	0.76	40.77	2.05	83.56	0.134	No	No	1.35
225	5.38	2.40	2.28	1.45	0.74	45.11	1.86	83.86	0.135	No	No	1.35
226	5.40	2.89	2.17	1.15	0.70	52.50	1.54	81.04	0.129	No	No	1.30
227	5.42	3.20	2.11	1.04	0.68	56.92	1.44	81.91	0.131	No	No	1.32
228	5.44	3.23	2.09	0.95	0.67	56.98	1.41	80.07	0.128	No	No	1.28
229	5.46	3.00	2.13	1.00	0.68	53.26	1.46	77.84	0.124	No	No	1.24
230	5.48	2.82	2.16	1.05	0.69	50.45	1.52	76.82	0.122	No	No	1.23
231	5.50	2.88	2.17	1.11	0.70	51.52	1.54	79.19	0.126	No	No	1.27
232	5.52	2.94	2.15	1.06	0.69	52.13	1.51	78.47	0.125	No	No	1.26
233	5.54	2.91	2.16	1.11	0.69	51.70	1.53	79.20	4.000	Yes	No	2.00
234	5.56	2.63	2.21	1.16	0.71	47.18	1.64	77.16	4.000	Yes	No	2.00
235	5.58	2.30	2.29	1.36	0.74	42.04	1.89	79.37	4.000	Yes	No	2.00
236	5.60	1.79	2.42	1.70	0.79	33.61	2.51	84.24	4.000	Yes	No	2.00
237	5.62	1.34	2.63	2.47	0.87	24.63	6.57	161.88	4.000	Yes	No	2.00
238	5.64	0.99	2.83	3.34	0.95	17.65	6.18	109.04	4.000	Yes	Yes	2.00
239	5.66	0.90	2.85	3.19	0.96	15.91	6.49	103.28	4.000	Yes	Yes	2.00
240	5.68	0.90	2.77	2.38	0.93	15.94	5.52	88.03	4.000	Yes	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	5.70	0.95	2.71	2.00	0.90	16.89	4.80	81.16	4.000	Yes	Yes	2.00
242	5.72	1.13	2.62	1.84	0.87	20.37	6.21	126.55	4.000	Yes	No	2.00
243	5.74	1.32	2.55	1.75	0.84	24.25	3.85	93.30	4.000	Yes	No	2.00
244	5.76	1.59	2.45	1.57	0.81	29.48	2.66	78.46	4.000	Yes	No	2.00
245	5.78	1.91	2.36	1.40	0.77	34.72	2.19	76.10	4.000	Yes	No	2.00
246	5.80	2.32	2.28	1.27	0.74	41.21	1.85	76.09	4.000	Yes	No	2.00
247	5.82	2.62	2.23	1.22	0.72	45.84	1.70	77.72	4.000	Yes	No	2.00
248	5.84	2.63	2.24	1.29	0.73	46.19	1.73	79.84	0.127	No	No	1.28
249	5.86	2.41	2.31	1.51	0.75	42.96	1.96	84.23	0.136	No	No	1.36
250	5.88	2.12	2.40	1.87	0.79	38.59	2.39	92.19	0.153	No	No	1.53
251	5.90	2.12	2.42	1.97	0.79	38.69	2.46	95.30	0.160	No	No	1.61
252	5.92	2.54	2.32	1.69	0.76	45.14	2.01	90.82	0.150	No	No	1.50
253	5.94	3.07	2.23	1.47	0.72	53.17	1.69	89.87	0.147	No	No	1.48
254	5.96	3.35	2.20	1.45	0.71	57.58	1.61	92.78	0.154	No	No	1.55
255	5.98	3.32	2.21	1.49	0.71	57.04	1.63	93.22	0.155	No	No	1.56
256	6.00	3.36	2.20	1.45	0.71	57.38	1.61	92.37	0.153	No	No	1.54
257	6.02	3.60	2.17	1.39	0.70	60.79	1.54	93.55	0.156	No	No	1.57
258	6.04	3.94	2.12	1.30	0.68	65.73	1.45	95.61	0.161	No	No	1.62
259	6.06	4.25	2.09	1.24	0.67	70.10	1.40	98.26	0.168	No	No	1.69
260	6.08	4.56	2.04	1.11	0.65	74.04	1.35	99.59	0.172	No	No	1.73
261	6.10	5.03	1.98	0.99	0.63	80.25	1.29	103.75	0.184	No	No	1.85
262	6.12	5.54	1.93	0.90	0.61	86.93	1.26	109.19	0.201	No	No	2.00
263	6.14	5.94	1.90	0.85	0.59	92.16	1.23	113.71	0.217	No	No	2.00
264	6.16	6.13	1.88	0.82	0.59	94.32	1.22	115.18	0.222	No	No	2.00
265	6.18	6.35	1.85	0.76	0.58	96.83	1.20	116.14	0.226	No	No	2.00
266	6.20	6.65	1.81	0.70	0.56	100.20	1.17	117.00	0.229	No	No	2.00
267	6.22	7.07	1.78	0.66	0.55	105.42	1.13	119.29	0.238	No	No	2.00
268	6.24	7.53	1.78	0.70	0.55	112.04	1.12	126.01	0.266	No	No	2.00
269	6.26	8.08	1.75	0.70	0.54	119.22	1.09	129.86	0.284	No	No	2.00
270	6.28	8.74	1.71	0.65	0.53	127.31	1.01	128.89	0.279	No	No	2.00
271	6.30	9.78	1.62	0.52	0.49	138.70	1.00	138.70	0.328	No	No	2.00
272	6.32	10.50	1.56	0.43	0.47	146.20	1.00	146.20	0.371	No	No	2.00
273	6.34	10.66	1.54	0.41	0.46	147.40	1.00	147.40	0.378	No	No	2.00
274	6.36	9.85	1.57	0.40	0.47	136.90	1.00	136.90	0.319	No	No	2.00
275	6.38	8.75	1.61	0.40	0.49	122.63	1.00	122.63	0.252	No	No	2.00
276	6.40	7.49	1.68	0.43	0.51	106.66	1.00	106.66	0.193	No	No	1.94
277	6.42	5.77	1.84	0.60	0.57	85.42	1.19	101.53	4.000	Yes	No	2.00
278	6.44	4.22	2.06	1.01	0.66	65.83	1.36	89.58	4.000	Yes	No	2.00
279	6.46	3.13	2.26	1.54	0.73	51.01	1.77	90.43	4.000	Yes	No	2.00
280	6.48	2.67	2.41	2.36	0.79	45.14	2.45	110.70	4.000	Yes	No	2.00
281	6.50	2.35	2.54	3.23	0.84	40.84	3.64	148.62	4.000	Yes	No	2.00
282	6.52	1.96	2.69	4.53	0.90	34.98	9.48	331.62	4.000	Yes	No	2.00
283	6.54	1.65	2.78	5.17	0.93	29.68	5.61	166.45	4.000	Yes	Yes	2.00
284	6.56	1.41	2.85	5.52	0.96	25.48	6.47	164.79	4.000	Yes	Yes	2.00
285	6.58	1.24	2.89	5.63	0.98	22.38	7.12	159.45	4.000	Yes	Yes	2.00
286	6.60	1.20	2.87	5.04	0.97	21.49	6.85	147.14	1.025	No	Yes	2.00
287	6.62	1.18	2.83	4.21	0.95	20.82	6.29	130.97	0.993	No	Yes	2.00
288	6.64	1.17	2.78	3.34	0.93	20.24	5.59	113.23	0.966	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	6.66	1.19	2.73	2.78	0.92	20.19	5.04	101.74	0.963	No	Yes	2.00
290	6.68	1.23	2.68	2.36	0.90	20.67	8.94	184.80	0.600	No	No	2.00
291	6.70	1.27	2.65	2.15	0.88	21.17	7.30	154.56	0.381	No	No	2.00
292	6.72	1.41	2.65	2.48	0.88	23.65	7.24	171.32	0.493	No	No	2.00
293	6.74	1.48	2.67	2.93	0.89	24.97	8.57	214.02	3.600	No	No	2.00
294	6.76	1.50	2.71	3.50	0.91	25.53	4.86	124.03	1.218	No	Yes	2.00
295	6.78	1.37	2.76	3.77	0.93	23.37	5.42	126.64	1.115	No	Yes	2.00
296	6.80	1.28	2.81	4.03	0.94	21.87	5.92	129.48	1.043	No	Yes	2.00
297	6.82	1.23	2.82	4.02	0.95	20.96	6.09	127.59	1.000	No	Yes	2.00
298	6.84	1.20	2.83	3.98	0.95	20.30	6.19	125.71	0.968	No	Yes	2.00
299	6.86	1.17	2.82	3.83	0.95	19.77	6.16	121.85	0.943	No	Yes	2.00
300	6.88	1.15	2.80	3.45	0.94	19.30	5.90	113.99	0.921	No	Yes	2.00
301	6.90	1.15	2.78	3.03	0.93	18.94	5.55	105.15	0.904	No	Yes	2.00
302	6.92	1.14	2.74	2.64	0.92	18.66	5.19	96.79	0.890	No	Yes	2.00
303	6.94	1.15	2.71	2.32	0.91	18.55	4.84	89.82	0.885	No	Yes	2.00
304	6.96	1.15	2.69	2.11	0.90	18.54	9.50	176.19	0.530	No	No	2.00
305	6.98	1.19	2.67	2.05	0.89	18.97	8.66	164.37	4.000	Yes	No	2.00
306	7.00	1.30	2.63	1.92	0.88	20.76	6.38	132.51	4.000	Yes	No	2.00
307	7.02	1.57	2.53	1.71	0.84	24.71	3.53	87.34	4.000	Yes	No	2.00
308	7.04	1.94	2.43	1.51	0.80	30.30	2.54	77.07	4.000	Yes	No	2.00
309	7.06	2.19	2.41	1.63	0.79	34.13	2.42	82.59	4.000	Yes	No	2.00
310	7.08	2.22	2.44	1.85	0.80	34.70	2.58	89.39	4.000	Yes	No	2.00
311	7.10	1.99	2.50	2.07	0.83	31.37	2.82	88.53	4.000	Yes	No	2.00
312	7.12	1.70	2.59	2.37	0.86	27.07	5.00	135.25	4.000	Yes	No	2.00
313	7.14	1.45	2.67	2.66	0.90	23.12	8.54	197.47	4.000	Yes	No	2.00
314	7.16	1.30	2.72	2.78	0.91	20.72	4.93	102.24	4.000	Yes	Yes	2.00
315	7.18	1.25	2.71	2.50	0.91	19.82	4.80	95.12	0.945	No	Yes	2.00
316	7.20	1.26	2.68	2.22	0.90	19.77	8.96	177.22	0.538	No	No	2.00
317	7.22	1.28	2.67	2.22	0.90	20.09	8.68	174.28	0.515	No	No	2.00
318	7.24	1.36	2.65	2.16	0.89	21.16	7.40	156.48	0.393	No	No	2.00
319	7.26	1.47	2.62	2.10	0.87	22.76	5.98	136.00	0.283	No	No	2.00
320	7.28	1.49	2.62	2.20	0.88	23.12	6.25	144.54	0.325	No	No	2.00
321	7.30	1.38	2.68	2.47	0.90	21.52	8.82	189.73	0.644	No	No	2.00
322	7.32	1.23	2.72	2.49	0.92	19.04	4.95	94.17	0.908	No	Yes	2.00
323	7.34	1.16	2.71	2.16	0.91	17.81	4.80	85.55	0.850	No	Yes	2.00
324	7.36	1.17	2.66	1.75	0.89	17.77	7.90	140.31	0.303	No	No	2.00
325	7.38	1.14	2.68	1.87	0.90	17.31	9.23	159.88	0.414	No	No	2.00
326	7.40	1.09	2.73	2.11	0.92	16.59	5.02	83.31	0.791	No	Yes	2.00
327	7.42	1.05	2.76	2.21	0.93	15.84	5.34	84.60	0.756	No	Yes	2.00
328	7.44	1.06	2.74	2.10	0.92	15.96	5.17	82.44	0.761	No	Yes	2.00
329	7.46	1.08	2.72	1.96	0.91	16.22	4.91	79.67	0.774	No	Yes	2.00
330	7.48	1.10	2.71	1.97	0.91	16.48	4.86	80.17	0.786	No	Yes	2.00
331	7.50	1.09	2.73	2.02	0.92	16.29	4.98	81.08	0.777	No	Yes	2.00
332	7.52	1.07	2.74	2.09	0.92	16.08	5.12	82.27	0.767	No	Yes	2.00
333	7.54	1.07	2.73	2.05	0.92	16.03	5.08	81.42	0.764	No	Yes	2.00
334	7.56	1.12	2.70	1.87	0.91	16.69	10.00	166.90	0.461	No	No	2.00
335	7.58	1.24	2.63	1.63	0.88	18.25	6.67	121.76	0.223	No	No	2.00
336	7.60	1.40	2.57	1.51	0.86	20.66	4.44	91.78	0.152	No	No	1.54

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	7.62	1.51	2.55	1.58	0.85	22.19	4.03	89.33	0.146	No	No	1.48
338	7.64	1.46	2.59	1.75	0.86	21.56	5.02	108.34	0.198	No	No	2.00
339	7.66	1.32	2.65	1.95	0.89	19.49	7.54	146.86	0.337	No	No	2.00
340	7.68	1.21	2.69	2.04	0.91	17.90	9.80	175.39	0.524	No	No	2.00
341	7.70	1.20	2.68	1.93	0.90	17.67	9.22	162.99	0.434	No	No	2.00
342	7.72	1.27	2.64	1.73	0.89	18.56	7.02	130.35	0.257	No	No	2.00
343	7.74	1.33	2.61	1.65	0.87	19.40	5.87	113.77	0.195	No	No	1.97
344	7.76	1.34	2.63	1.82	0.88	19.59	6.67	130.59	0.258	No	No	2.00
345	7.78	1.26	2.67	1.91	0.90	18.38	8.33	153.16	0.373	No	No	2.00
346	7.80	1.18	2.69	1.89	0.91	17.04	9.75	166.09	0.456	No	No	2.00
347	7.82	1.12	2.69	1.70	0.90	16.07	9.47	152.21	0.367	No	No	2.00
348	7.84	1.13	2.68	1.62	0.90	16.13	8.80	141.93	0.311	No	No	2.00
349	7.86	1.20	2.64	1.53	0.89	17.09	7.07	120.79	0.219	No	No	2.00
350	7.88	1.30	2.60	1.43	0.87	18.57	5.28	98.01	0.168	No	No	1.69
351	7.90	1.39	2.59	1.54	0.86	19.89	5.00	99.43	0.171	No	No	1.73
352	7.92	1.41	2.62	1.77	0.88	20.19	6.00	121.24	0.221	No	No	2.00
353	7.94	1.40	2.63	1.88	0.88	20.08	6.68	134.15	0.274	No	No	2.00
354	7.96	1.30	2.68	2.04	0.90	18.61	8.95	166.51	0.458	No	No	2.00
355	7.98	1.16	2.73	2.12	0.92	16.49	5.05	83.31	0.787	No	Yes	2.00
356	8.00	0.99	2.82	2.35	0.95	13.96	6.07	84.79	0.666	No	Yes	2.00
357	8.02	0.92	2.83	2.17	0.96	12.91	6.18	79.79	0.616	No	Yes	2.00
358	8.04	0.93	2.79	1.89	0.94	12.97	5.75	74.57	0.618	No	Yes	2.00
359	8.06	0.96	2.77	1.77	0.93	13.31	5.46	72.70	0.635	No	Yes	2.00
360	8.08	0.96	2.77	1.82	0.94	13.35	5.52	73.75	0.637	No	Yes	2.00
361	8.10	0.97	2.78	1.86	0.94	13.38	5.57	74.55	0.638	No	Yes	2.00
362	8.12	1.01	2.75	1.75	0.93	14.00	5.20	72.84	0.668	No	Yes	2.00
363	8.14	1.18	2.65	1.46	0.89	16.26	7.42	120.55	0.219	No	No	2.00
364	8.16	1.31	2.58	1.27	0.86	18.11	4.67	84.57	0.136	No	No	1.38
365	8.18	1.41	2.56	1.34	0.86	19.43	4.27	82.97	0.133	No	No	1.35
366	8.20	1.39	2.61	1.62	0.87	19.36	5.74	111.06	0.187	No	No	1.89
367	8.22	1.38	2.64	1.82	0.89	19.28	6.92	133.32	0.270	No	No	2.00
368	8.24	1.33	2.67	1.94	0.90	18.53	8.37	155.10	0.384	No	No	2.00
369	8.26	1.20	2.72	2.02	0.92	16.64	4.89	81.33	0.794	No	Yes	2.00
370	8.28	1.10	2.77	2.16	0.94	15.10	5.46	82.53	0.720	No	Yes	2.00
371	8.30	1.07	2.78	2.16	0.94	14.63	5.60	81.97	0.698	No	Yes	2.00
372	8.32	1.11	2.76	2.09	0.93	15.23	5.34	81.43	0.727	No	Yes	2.00
373	8.34	1.15	2.75	2.13	0.93	15.83	5.23	82.84	4.000	Yes	Yes	2.00
374	8.36	1.29	2.68	1.86	0.90	17.63	8.82	155.58	4.000	Yes	No	2.00
375	8.38	1.35	2.64	1.68	0.89	18.37	6.83	125.58	4.000	Yes	No	2.00
376	8.40	1.62	2.52	1.32	0.84	21.93	3.13	68.59	4.000	Yes	No	2.00
377	8.42	1.77	2.47	1.22	0.82	23.91	2.76	65.97	4.000	Yes	No	2.00
378	8.44	2.34	2.33	1.04	0.77	31.40	2.04	63.91	4.000	Yes	No	2.00
379	8.46	2.66	2.29	1.08	0.75	35.72	1.89	67.46	4.000	Yes	No	2.00
380	8.48	3.19	2.24	1.15	0.74	42.72	1.73	73.89	4.000	Yes	No	2.00
381	8.50	3.73	2.22	1.32	0.73	50.09	1.67	83.64	4.000	Yes	No	2.00
382	8.52	4.32	2.21	1.51	0.72	57.95	1.63	94.66	0.159	No	No	1.61
383	8.54	4.56	2.22	1.67	0.73	61.29	1.66	101.48	4.000	Yes	No	2.00
384	8.56	4.19	2.30	2.04	0.76	56.85	1.92	109.04	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	8.58	3.56	2.42	2.61	0.80	48.88	2.47	120.87	4.000	Yes	No	2.00
386	8.60	2.79	2.61	3.89	0.88	39.15	5.68	222.54	4.000	Yes	No	2.00
387	8.62	2.22	2.79	5.64	0.94	31.60	5.69	179.83	4.000	Yes	Yes	2.00
388	8.64	1.90	2.91	7.31	0.99	27.17	7.40	201.05	4.000	Yes	Yes	2.00
389	8.66	1.89	2.92	7.45	0.99	27.07	7.51	203.27	1.291	No	Yes	2.00
390	8.68	1.99	2.88	6.94	0.98	28.38	6.98	197.95	1.354	No	Yes	2.00
391	8.70	2.15	2.84	6.34	0.96	30.36	6.30	191.41	1.448	No	Yes	2.00
392	8.72	2.25	2.81	6.13	0.95	31.77	5.99	190.44	1.515	No	Yes	2.00
393	8.74	2.28	2.81	6.10	0.95	32.06	5.94	190.47	1.529	No	Yes	2.00
394	8.76	2.23	2.82	6.16	0.96	31.32	6.07	190.03	1.494	No	Yes	2.00
395	8.78	2.20	2.83	6.26	0.96	30.79	6.20	190.88	1.469	No	Yes	2.00
396	8.80	2.29	2.81	6.17	0.95	32.01	5.99	191.67	1.527	No	Yes	2.00
397	8.82	2.55	2.76	5.79	0.93	35.40	5.38	190.46	1.689	No	Yes	2.00
398	8.84	2.78	2.71	5.42	0.92	38.51	4.87	187.33	1.837	No	Yes	2.00
399	8.86	2.88	2.70	5.31	0.91	39.67	10.12	401.58	3.600	No	No	2.00
400	8.88	2.86	2.71	5.46	0.92	39.37	4.81	189.56	1.878	No	Yes	2.00
401	8.90	2.90	2.71	5.56	0.92	39.85	4.84	192.77	1.901	No	Yes	2.00
402	8.92	3.32	2.64	5.06	0.89	45.35	7.15	324.40	3.600	No	No	2.00
403	8.94	4.11	2.53	4.26	0.85	55.47	3.42	189.61	0.714	No	No	2.00
404	8.96	4.83	2.45	3.78	0.82	64.59	2.64	170.37	0.540	No	No	2.00
405	8.98	5.36	2.40	3.57	0.80	71.24	2.37	169.06	0.529	No	No	2.00
406	9.00	5.79	2.38	3.64	0.79	76.71	2.29	176.01	4.000	Yes	No	2.00
407	9.02	6.36	2.35	3.53	0.78	83.84	2.13	178.23	4.000	Yes	No	2.00
408	9.04	6.82	2.32	3.45	0.77	89.43	2.01	180.12	4.000	Yes	No	2.00
409	9.06	6.58	2.35	3.61	0.78	86.28	2.12	183.02	4.000	Yes	No	2.00
410	9.08	5.98	2.42	4.10	0.80	78.93	2.45	193.71	4.000	Yes	No	2.00
411	9.10	5.22	2.51	4.88	0.84	69.45	2.97	206.28	4.000	Yes	No	2.00
412	9.12	4.77	2.57	5.43	0.86	63.65	4.41	280.82	4.000	Yes	No	2.00
413	9.14	4.51	2.60	5.73	0.88	60.11	5.49	329.81	4.000	Yes	No	2.00
414	9.16	4.61	2.58	5.35	0.87	61.13	4.60	281.26	4.000	No	No	2.00
415	9.18	5.05	2.51	4.70	0.84	66.38	2.97	197.44	0.796	No	No	2.00
416	9.20	5.45	2.45	4.18	0.82	71.09	2.66	189.42	0.712	No	No	2.00
417	9.22	5.30	2.47	4.30	0.83	69.00	2.77	191.29	0.731	No	No	2.00
418	9.24	4.79	2.53	4.71	0.85	62.60	3.35	209.71	4.000	No	No	2.00
419	9.26	4.39	2.58	5.07	0.87	57.40	4.61	264.73	4.000	No	No	2.00
420	9.28	4.37	2.57	4.91	0.86	56.93	4.37	248.97	4.000	Yes	No	2.00
421	9.30	4.66	2.52	4.40	0.84	60.21	3.11	187.33	4.000	Yes	No	2.00
422	9.32	5.24	2.45	3.93	0.82	67.30	2.64	177.54	4.000	Yes	No	2.00
423	9.34	6.58	2.32	3.20	0.77	83.31	2.00	166.55	4.000	Yes	No	2.00
424	9.36	8.09	2.20	2.63	0.72	100.98	1.61	162.72	4.000	Yes	No	2.00
425	9.38	10.13	2.06	2.04	0.67	124.39	1.36	169.53	4.000	Yes	No	2.00
426	9.40	23.81	1.55	0.86	0.48	275.25	1.00	275.25	4.000	No	No	2.00
427	9.42	37.13	1.29	0.57	0.38	415.53	1.00	415.53	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
0.90	2.00	0.00	0.00	0.02	0.00	0.92	2.00	0.00	0.00	0.02	0.00
0.94	2.00	0.00	0.00	0.02	0.00	0.96	2.00	0.00	0.00	0.02	0.00
0.98	1.71	0.00	0.00	0.02	0.00	1.00	2.00	0.00	0.00	0.02	0.00
1.02	2.00	0.00	0.00	0.02	0.00	1.04	1.87	0.00	0.00	0.02	0.00
1.06	1.88	0.00	0.00	0.02	0.00	1.08	1.77	0.00	0.00	0.02	0.00
1.10	1.84	0.00	0.00	0.02	0.00	1.12	2.00	0.00	0.00	0.02	0.00
1.14	2.00	0.00	0.00	0.02	0.00	1.16	2.00	0.00	0.00	0.02	0.00
1.18	2.00	0.00	0.00	0.02	0.00	1.20	2.00	0.00	0.00	0.02	0.00
1.22	2.00	0.00	0.00	0.02	0.00	1.24	2.00	0.00	0.00	0.02	0.00
1.26	2.00	0.00	0.00	0.02	0.00	1.28	2.00	0.00	0.00	0.02	0.00
1.30	2.00	0.00	0.00	0.02	0.00	1.32	2.00	0.00	0.00	0.02	0.00
1.34	2.00	0.00	0.00	0.02	0.00	1.36	2.00	0.00	0.00	0.02	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.42	2.00	0.00	0.00	0.02	0.00	1.44	2.00	0.00	0.00	0.02	0.00
1.46	2.00	0.00	0.00	0.02	0.00	1.48	2.00	0.00	0.00	0.02	0.00
1.50	2.00	0.00	0.00	0.02	0.00	1.52	2.00	0.00	0.00	0.02	0.00
1.54	2.00	0.00	0.00	0.02	0.00	1.56	2.00	0.00	0.00	0.02	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.02	0.00
1.62	2.00	0.00	0.00	0.02	0.00	1.64	2.00	0.00	0.00	0.02	0.00
1.66	2.00	0.00	0.00	0.02	0.00	1.68	2.00	0.00	0.00	0.02	0.00
1.70	2.00	0.00	0.00	0.02	0.00	1.72	2.00	0.00	0.00	0.02	0.00
1.74	2.00	0.00	0.00	0.02	0.00	1.76	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.02	0.00
1.82	2.00	0.00	0.00	0.02	0.00	1.84	2.00	0.00	0.00	0.02	0.00
1.86	2.00	0.00	0.00	0.02	0.00	1.88	2.00	0.00	0.00	0.02	0.00
1.90	2.00	0.00	0.00	0.02	0.00	1.92	2.00	0.00	0.00	0.02	0.00
1.94	2.00	0.00	0.00	0.02	0.00	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.02	2.00	0.00	0.00	0.02	0.00	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	2.00	0.00	0.00	0.02	0.00
2.10	2.00	0.00	0.00	0.02	0.00	2.12	2.00	0.00	0.00	0.02	0.00
2.14	2.00	0.00	0.00	0.02	0.00	2.16	2.00	0.00	0.00	0.02	0.00
2.18	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	1.71	0.00	0.00	0.02	0.00	2.40	1.76	0.00	0.00	0.02	0.00
2.42	1.92	0.00	0.00	0.02	0.00	2.44	1.83	0.00	0.00	0.02	0.00
2.46	1.66	0.00	0.00	0.02	0.00	2.48	1.55	0.00	0.00	0.02	0.00
2.50	1.44	0.00	0.00	0.02	0.00	2.52	1.29	0.00	0.00	0.02	0.00
2.54	1.21	0.00	0.00	0.02	0.00	2.56	1.18	0.00	0.00	0.02	0.00
2.58	1.17	0.00	0.00	0.02	0.00	2.60	1.17	0.00	0.00	0.02	0.00
2.62	1.17	0.00	0.00	0.02	0.00	2.64	1.13	0.00	0.00	0.02	0.00
2.66	1.12	0.00	0.00	0.02	0.00	2.68	1.13	0.00	0.00	0.02	0.00
2.70	1.12	0.00	0.00	0.02	0.00	2.72	1.11	0.00	0.00	0.02	0.00
2.74	1.12	0.00	0.00	0.02	0.00	2.76	1.11	0.00	0.00	0.02	0.00
2.78	1.08	0.00	0.00	0.02	0.00	2.80	1.10	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
2.82	1.08	0.00	0.00	0.02	0.00	2.84	1.08	0.00	0.00	0.02	0.00
2.86	1.09	0.00	0.00	0.02	0.00	2.88	1.12	0.00	0.00	0.02	0.00
2.90	1.15	0.00	0.00	0.02	0.00	2.92	1.17	0.00	0.00	0.02	0.00
2.94	1.21	0.00	0.00	0.02	0.00	2.96	1.22	0.00	0.00	0.02	0.00
2.98	1.20	0.00	0.00	0.02	0.00	3.00	1.16	0.00	0.00	0.02	0.00
3.02	1.15	0.00	0.00	0.02	0.00	3.04	1.15	0.00	0.00	0.02	0.00
3.06	1.06	0.00	0.00	0.02	0.00	3.08	1.03	0.00	0.00	0.02	0.00
3.10	1.03	0.00	0.00	0.02	0.00	3.12	1.12	0.00	0.00	0.02	0.00
3.14	1.22	0.00	0.00	0.02	0.00	3.16	1.31	0.00	0.00	0.02	0.00
3.18	1.29	0.00	0.00	0.02	0.00	3.20	1.24	0.00	0.00	0.02	0.00
3.22	1.17	0.00	0.00	0.02	0.00	3.24	1.14	0.00	0.00	0.02	0.00
3.26	1.12	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	1.17	0.00	0.00	0.02	0.00
3.38	1.10	0.00	0.00	0.02	0.00	3.40	1.10	0.00	0.00	0.02	0.00
3.42	1.12	0.00	0.00	0.02	0.00	3.44	1.15	0.00	0.00	0.02	0.00
3.46	1.13	0.00	0.00	0.02	0.00	3.48	1.10	0.00	0.00	0.02	0.00
3.50	1.07	0.00	0.00	0.02	0.00	3.52	1.08	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.02	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.62	2.00	0.00	0.00	0.02	0.00	3.64	2.00	0.00	0.00	0.02	0.00
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	1.43	0.00	0.00	0.02	0.00
3.74	1.45	0.00	0.00	0.02	0.00	3.76	1.39	0.00	0.00	0.02	0.00
3.78	1.28	0.00	0.00	0.02	0.00	3.80	1.18	0.00	0.00	0.02	0.00
3.82	1.12	0.00	0.00	0.02	0.00	3.84	1.10	0.00	0.00	0.02	0.00
3.86	1.09	0.00	0.00	0.02	0.00	3.88	1.06	0.00	0.00	0.02	0.00
3.90	1.07	0.00	0.00	0.02	0.00	3.92	1.12	0.00	0.00	0.02	0.00
3.94	1.16	0.00	0.00	0.02	0.00	3.96	1.20	0.00	0.00	0.02	0.00
3.98	1.20	0.00	0.00	0.02	0.00	4.00	1.18	0.00	0.00	0.02	0.00
4.02	1.15	0.00	0.00	0.02	0.00	4.04	1.12	0.00	0.00	0.02	0.00
4.06	1.12	0.00	0.00	0.02	0.00	4.08	1.12	0.00	0.00	0.02	0.00
4.10	1.09	0.00	0.00	0.02	0.00	4.12	1.07	0.00	0.00	0.02	0.00
4.14	1.10	0.00	0.00	0.02	0.00	4.16	1.12	0.00	0.00	0.02	0.00
4.18	1.15	0.00	0.00	0.02	0.00	4.20	1.18	0.00	0.00	0.02	0.00
4.22	1.24	0.00	0.00	0.02	0.00	4.24	1.33	0.00	0.00	0.02	0.00
4.26	1.39	0.00	0.00	0.02	0.00	4.28	1.35	0.00	0.00	0.02	0.00
4.30	1.30	0.00	0.00	0.02	0.00	4.32	1.27	0.00	0.00	0.02	0.00
4.34	1.33	0.00	0.00	0.02	0.00	4.36	1.42	0.00	0.00	0.02	0.00
4.38	1.51	0.00	0.00	0.02	0.00	4.40	1.60	0.00	0.00	0.02	0.00
4.42	1.67	0.00	0.00	0.02	0.00	4.44	1.75	0.00	0.00	0.02	0.00
4.46	1.81	0.00	0.00	0.02	0.00	4.48	1.74	0.00	0.00	0.02	0.00
4.50	1.64	0.00	0.00	0.02	0.00	4.52	1.50	0.00	0.00	0.02	0.00
4.54	1.49	0.00	0.00	0.02	0.00	4.56	1.56	0.00	0.00	0.02	0.00
4.58	1.66	0.00	0.00	0.02	0.00	4.60	1.70	0.00	0.00	0.02	0.00
4.62	1.68	0.00	0.00	0.02	0.00	4.64	1.66	0.00	0.00	0.02	0.00
4.66	1.61	0.00	0.00	0.02	0.00	4.68	1.53	0.00	0.00	0.02	0.00
4.70	1.48	0.00	0.00	0.02	0.00	4.72	1.47	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
4.74	1.44	0.00	0.00	0.02	0.00	4.76	1.34	0.00	0.00	0.02	0.00
4.78	1.20	0.00	0.00	0.02	0.00	4.80	1.16	0.00	0.00	0.02	0.00
4.82	1.27	0.00	0.00	0.02	0.00	4.84	1.33	0.00	0.00	0.02	0.00
4.86	1.24	0.00	0.00	0.02	0.00	4.88	1.23	0.00	0.00	0.02	0.00
4.90	1.28	0.00	0.00	0.02	0.00	4.92	1.48	0.00	0.00	0.02	0.00
4.94	1.69	0.00	0.00	0.02	0.00	4.96	1.55	0.00	0.00	0.02	0.00
4.98	1.42	0.00	0.00	0.02	0.00	5.00	1.35	0.00	0.00	0.02	0.00
5.02	1.43	0.00	0.00	0.02	0.00	5.04	1.56	0.00	0.00	0.02	0.00
5.06	1.65	0.00	0.00	0.02	0.00	5.08	1.60	0.00	0.00	0.02	0.00
5.10	1.58	0.00	0.00	0.02	0.00	5.12	1.51	0.00	0.00	0.02	0.00
5.14	1.52	0.00	0.00	0.02	0.00	5.16	1.46	0.00	0.00	0.02	0.00
5.18	1.34	0.00	0.00	0.02	0.00	5.20	1.24	0.00	0.00	0.02	0.00
5.22	1.17	0.00	0.00	0.02	0.00	5.24	1.22	0.00	0.00	0.02	0.00
5.26	1.29	0.00	0.00	0.02	0.00	5.28	1.38	0.00	0.00	0.02	0.00
5.30	1.40	0.00	0.00	0.02	0.00	5.32	1.39	0.00	0.00	0.02	0.00
5.34	1.39	0.00	0.00	0.02	0.00	5.36	1.35	0.00	0.00	0.02	0.00
5.38	1.35	0.00	0.00	0.02	0.00	5.40	1.30	0.00	0.00	0.02	0.00
5.42	1.32	0.00	0.00	0.02	0.00	5.44	1.28	0.00	0.00	0.02	0.00
5.46	1.24	0.00	0.00	0.02	0.00	5.48	1.23	0.00	0.00	0.02	0.00
5.50	1.27	0.00	0.00	0.02	0.00	5.52	1.26	0.00	0.00	0.02	0.00
5.54	2.00	0.00	0.00	0.02	0.00	5.56	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.02	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.62	2.00	0.00	0.00	0.02	0.00	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	1.28	0.00	0.00	0.02	0.00
5.86	1.36	0.00	0.00	0.02	0.00	5.88	1.53	0.00	0.00	0.02	0.00
5.90	1.61	0.00	0.00	0.02	0.00	5.92	1.50	0.00	0.00	0.02	0.00
5.94	1.48	0.00	0.00	0.02	0.00	5.96	1.55	0.00	0.00	0.02	0.00
5.98	1.56	0.00	0.00	0.02	0.00	6.00	1.54	0.00	0.00	0.02	0.00
6.02	1.57	0.00	0.00	0.02	0.00	6.04	1.62	0.00	0.00	0.02	0.00
6.06	1.69	0.00	0.00	0.02	0.00	6.08	1.73	0.00	0.00	0.02	0.00
6.10	1.85	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	1.94	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	1.54	0.00	0.00	0.02	0.00
7.62	1.48	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	1.97	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	1.69	0.00	0.00	0.02	0.00
7.90	1.73	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	1.38	0.00	0.00	0.02	0.00
8.18	1.35	0.00	0.00	0.02	0.00	8.20	1.89	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00
8.50	2.00	0.00	0.00	0.02	0.00	8.52	1.61	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00						

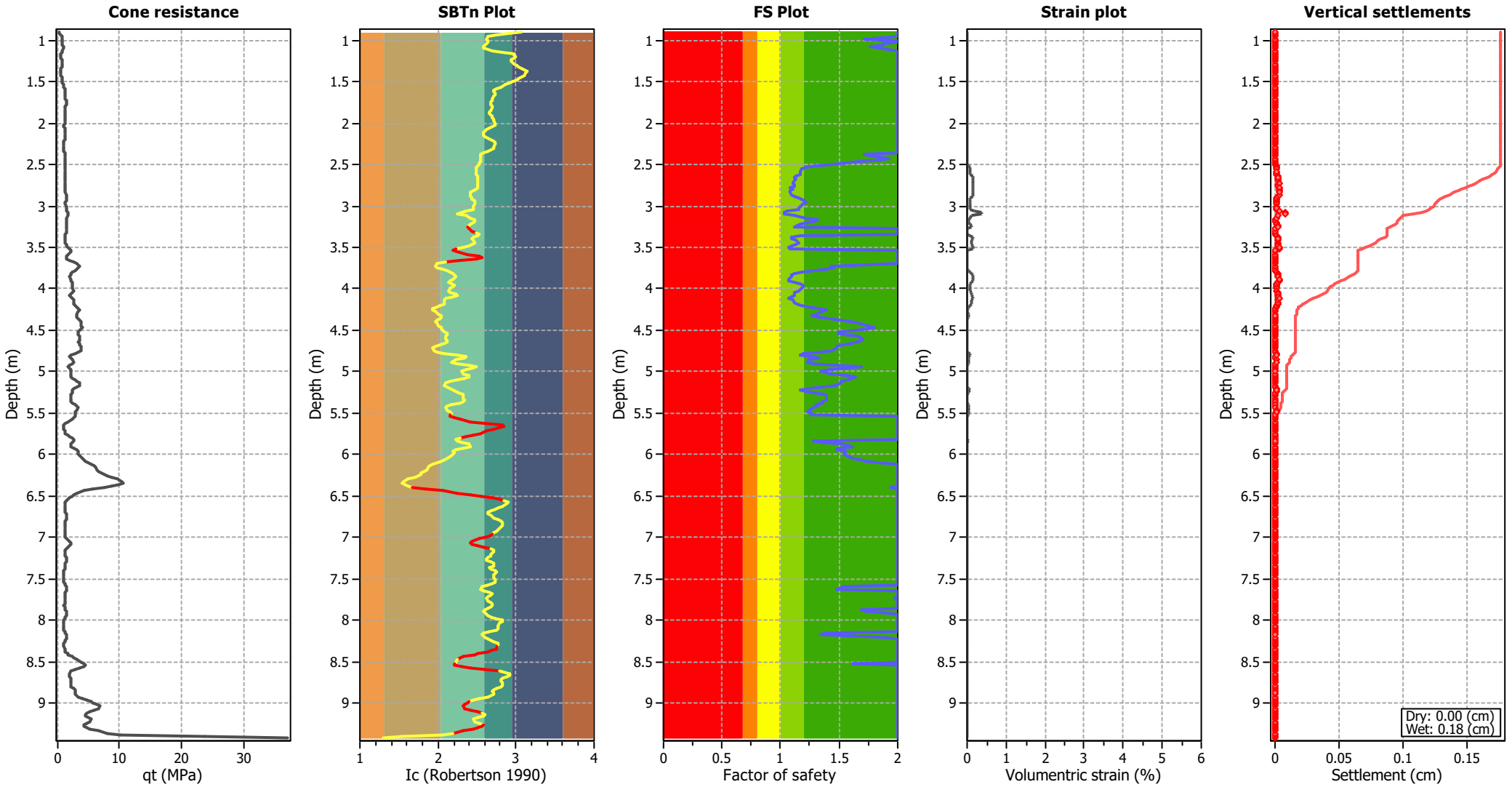
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
0.90	55.69	2.00	0.00	0.95	0.00	0.92	57.42	2.00	0.00	0.95	0.00
0.94	57.79	2.00	0.00	0.95	0.00	0.96	100.16	2.00	0.00	0.95	0.00
0.98	83.66	1.71	0.00	0.95	0.00	1.00	98.42	2.00	0.00	0.94	0.00
1.02	100.03	2.00	0.00	0.94	0.00	1.04	91.60	1.87	0.00	0.94	0.00
1.06	85.56	1.88	0.00	0.94	0.00	1.08	81.84	1.77	0.00	0.94	0.00
1.10	85.18	1.84	0.00	0.94	0.00	1.12	80.70	2.00	0.00	0.94	0.00
1.14	88.75	2.00	0.00	0.94	0.00	1.16	97.64	2.00	0.00	0.94	0.00
1.18	92.20	2.00	0.00	0.93	0.00	1.20	95.75	2.00	0.00	0.93	0.00
1.22	98.35	2.00	0.00	0.93	0.00	1.24	99.57	2.00	0.00	0.93	0.00
1.26	102.61	2.00	0.00	0.93	0.00	1.28	107.92	2.00	0.00	0.93	0.00
1.30	113.19	2.00	0.00	0.93	0.00	1.32	118.31	2.00	0.00	0.93	0.00
1.34	123.33	2.00	0.00	0.93	0.00	1.36	128.28	2.00	0.00	0.92	0.00
1.38	131.51	2.00	0.00	0.92	0.00	1.40	131.49	2.00	0.00	0.92	0.00
1.42	129.93	2.00	0.00	0.92	0.00	1.44	127.92	2.00	0.00	0.92	0.00
1.46	126.89	2.00	0.00	0.92	0.00	1.48	125.42	2.00	0.00	0.92	0.00
1.50	124.10	2.00	0.00	0.92	0.00	1.52	123.47	2.00	0.00	0.92	0.00
1.54	122.98	2.00	0.00	0.91	0.00	1.56	120.39	2.00	0.00	0.91	0.00
1.58	117.45	2.00	0.00	0.91	0.00	1.60	116.29	2.00	0.00	0.91	0.00
1.62	118.84	2.00	0.00	0.91	0.00	1.64	121.73	2.00	0.00	0.91	0.00
1.66	123.31	2.00	0.00	0.91	0.00	1.68	123.26	2.00	0.00	0.91	0.00
1.70	123.23	2.00	0.00	0.91	0.00	1.72	259.38	2.00	0.00	0.90	0.00
1.74	248.90	2.00	0.00	0.90	0.00	1.76	236.70	2.00	0.00	0.90	0.00
1.78	235.23	2.00	0.00	0.90	0.00	1.80	246.48	2.00	0.00	0.90	0.00
1.82	117.72	2.00	0.00	0.90	0.00	1.84	219.95	2.00	0.00	0.90	0.00
1.86	196.25	2.00	0.00	0.90	0.00	1.88	193.51	2.00	0.00	0.90	0.00
1.90	228.71	2.00	0.00	0.89	0.00	1.92	113.61	2.00	0.00	0.89	0.00
1.94	110.70	2.00	0.00	0.89	0.00	1.96	108.94	2.00	0.00	0.89	0.00
1.98	109.02	2.00	0.00	0.89	0.00	2.00	108.86	2.00	0.00	0.89	0.00
2.02	106.57	2.00	0.00	0.89	0.00	2.04	101.12	2.00	0.00	0.89	0.00
2.06	180.26	2.00	0.00	0.89	0.00	2.08	146.78	2.00	0.00	0.88	0.00
2.10	124.79	2.00	0.00	0.88	0.00	2.12	113.69	2.00	0.00	0.88	0.00
2.14	111.72	2.00	0.00	0.88	0.00	2.16	128.47	2.00	0.00	0.88	0.00
2.18	156.41	2.00	0.00	0.88	0.00	2.20	197.25	2.00	0.00	0.88	0.00
2.22	100.72	2.00	0.00	0.88	0.00	2.24	102.04	2.00	0.00	0.88	0.00
2.26	101.96	2.00	0.00	0.87	0.00	2.28	99.17	2.00	0.00	0.87	0.00
2.30	96.21	2.00	0.00	0.87	0.00	2.32	186.04	2.00	0.00	0.87	0.00
2.34	148.28	2.00	0.00	0.87	0.00	2.36	111.44	2.00	0.00	0.87	0.00
2.38	93.67	1.71	0.00	0.87	0.00	2.40	95.58	1.76	0.00	0.87	0.00
2.42	101.07	1.92	0.00	0.87	0.00	2.44	98.35	1.83	0.00	0.86	0.00
2.46	92.12	1.66	0.00	0.86	0.00	2.48	87.84	1.55	0.00	0.86	0.00
2.50	82.90	1.44	0.00	0.86	0.00	2.52	75.21	1.29	0.03	0.86	0.00
2.54	70.29	1.21	0.06	0.86	0.00	2.56	68.20	1.18	0.07	0.86	0.00
2.58	67.24	1.17	0.08	0.86	0.00	2.60	67.50	1.17	0.08	0.86	0.00
2.62	67.54	1.17	0.08	0.85	0.00	2.64	64.51	1.13	0.13	0.85	0.00
2.66	64.36	1.12	0.13	0.85	0.00	2.68	64.76	1.13	0.13	0.85	0.00
2.70	64.63	1.12	0.13	0.85	0.00	2.72	63.54	1.11	0.14	0.85	0.00
2.74	64.38	1.12	0.14	0.85	0.00	2.76	64.38	1.11	0.14	0.85	0.00
2.78	61.93	1.08	0.16	0.85	0.00	2.80	63.73	1.10	0.15	0.84	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
2.82	62.19	1.08	0.16	0.84	0.00	2.84	61.76	1.08	0.17	0.84	0.00
2.86	62.93	1.09	0.16	0.84	0.00	2.88	65.41	1.12	0.13	0.84	0.00
2.90	68.05	1.15	0.08	0.84	0.00	2.92	69.76	1.17	0.07	0.84	0.00
2.94	72.19	1.21	0.06	0.84	0.00	2.96	72.67	1.22	0.06	0.84	0.00
2.98	71.58	1.20	0.07	0.83	0.00	3.00	69.42	1.16	0.08	0.83	0.00
3.02	68.49	1.15	0.08	0.83	0.00	3.04	68.70	1.15	0.08	0.83	0.00
3.06	61.02	1.06	0.18	0.83	0.00	3.08	59.04	1.03	0.37	0.83	0.01
3.10	58.20	1.03	0.39	0.83	0.01	3.12	66.54	1.12	0.13	0.83	0.00
3.14	73.49	1.22	0.06	0.83	0.00	3.16	79.27	1.31	0.02	0.82	0.00
3.18	78.23	1.29	0.03	0.82	0.00	3.20	74.83	1.24	0.05	0.82	0.00
3.22	70.40	1.17	0.07	0.82	0.00	3.24	68.38	1.14	0.12	0.82	0.00
3.26	67.38	1.12	0.13	0.82	0.00	3.28	69.05	2.00	0.00	0.82	0.00
3.30	71.62	2.00	0.00	0.82	0.00	3.32	77.86	2.00	0.00	0.82	0.00
3.34	80.32	2.00	0.00	0.81	0.00	3.36	71.07	1.17	0.07	0.81	0.00
3.38	65.91	1.10	0.14	0.81	0.00	3.40	65.72	1.10	0.14	0.81	0.00
3.42	68.03	1.12	0.12	0.81	0.00	3.44	69.94	1.15	0.11	0.81	0.00
3.46	68.20	1.13	0.12	0.81	0.00	3.48	66.25	1.10	0.14	0.81	0.00
3.50	64.02	1.07	0.16	0.81	0.00	3.52	64.85	1.08	0.15	0.80	0.00
3.54	66.74	2.00	0.00	0.80	0.00	3.56	71.08	2.00	0.00	0.80	0.00
3.58	78.38	2.00	0.00	0.80	0.00	3.60	96.55	2.00	0.00	0.80	0.00
3.62	114.31	2.00	0.00	0.80	0.00	3.64	81.91	2.00	0.00	0.80	0.00
3.66	68.54	2.00	0.00	0.80	0.00	3.68	70.83	2.00	0.00	0.80	0.00
3.70	79.61	2.00	0.00	0.79	0.00	3.72	86.51	1.43	0.00	0.79	0.00
3.74	87.32	1.45	0.00	0.79	0.00	3.76	84.67	1.39	0.00	0.79	0.00
3.78	79.05	1.28	0.03	0.79	0.00	3.80	73.04	1.18	0.06	0.79	0.00
3.82	68.69	1.12	0.12	0.79	0.00	3.84	66.80	1.10	0.14	0.79	0.00
3.86	66.41	1.09	0.14	0.79	0.00	3.88	64.19	1.06	0.16	0.78	0.00
3.90	65.15	1.07	0.15	0.78	0.00	3.92	69.01	1.12	0.12	0.78	0.00
3.94	71.99	1.16	0.07	0.78	0.00	3.96	74.09	1.20	0.06	0.78	0.00
3.98	74.09	1.20	0.06	0.78	0.00	4.00	73.25	1.18	0.06	0.78	0.00
4.02	71.32	1.15	0.07	0.78	0.00	4.04	68.88	1.12	0.12	0.78	0.00
4.06	68.88	1.12	0.12	0.77	0.00	4.08	69.06	1.12	0.12	0.77	0.00
4.10	67.03	1.09	0.13	0.77	0.00	4.12	65.51	1.07	0.15	0.77	0.00
4.14	67.81	1.10	0.13	0.77	0.00	4.16	69.21	1.12	0.12	0.77	0.00
4.18	71.05	1.15	0.10	0.77	0.00	4.20	73.39	1.18	0.06	0.77	0.00
4.22	77.02	1.24	0.05	0.77	0.00	4.24	82.00	1.33	0.02	0.76	0.00
4.26	85.11	1.39	0.00	0.76	0.00	4.28	83.32	1.35	0.02	0.76	0.00
4.30	80.94	1.30	0.02	0.76	0.00	4.32	78.98	1.27	0.03	0.76	0.00
4.34	82.20	1.33	0.02	0.76	0.00	4.36	87.04	1.42	0.00	0.76	0.00
4.38	90.86	1.51	0.00	0.76	0.00	4.40	94.66	1.60	0.00	0.76	0.00
4.42	97.24	1.67	0.00	0.75	0.00	4.44	100.31	1.75	0.00	0.75	0.00
4.46	102.17	1.81	0.00	0.75	0.00	4.48	100.01	1.74	0.00	0.75	0.00
4.50	96.20	1.64	0.00	0.75	0.00	4.52	90.61	1.50	0.00	0.75	0.00
4.54	90.07	1.49	0.00	0.75	0.00	4.56	92.86	1.56	0.00	0.75	0.00
4.58	96.95	1.66	0.00	0.75	0.00	4.60	98.32	1.70	0.00	0.74	0.00
4.62	97.83	1.68	0.00	0.74	0.00	4.64	96.86	1.66	0.00	0.74	0.00
4.66	94.84	1.61	0.00	0.74	0.00	4.68	91.63	1.53	0.00	0.74	0.00
4.70	89.40	1.48	0.00	0.74	0.00	4.72	89.34	1.47	0.00	0.74	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
4.74	87.92	1.44	0.00	0.74	0.00	4.76	82.96	1.34	0.02	0.74	0.00
4.78	74.71	1.20	0.06	0.73	0.00	4.80	72.47	1.16	0.07	0.73	0.00
4.82	78.96	1.27	0.03	0.73	0.00	4.84	82.58	1.33	0.02	0.73	0.00
4.86	77.57	1.24	0.04	0.73	0.00	4.88	76.94	1.23	0.05	0.73	0.00
4.90	80.02	1.28	0.02	0.73	0.00	4.92	89.91	1.48	0.00	0.73	0.00
4.94	98.18	1.69	0.00	0.73	0.00	4.96	92.78	1.55	0.00	0.72	0.00
4.98	87.08	1.42	0.00	0.72	0.00	5.00	83.43	1.35	0.02	0.72	0.00
5.02	87.33	1.43	0.00	0.72	0.00	5.04	93.31	1.56	0.00	0.72	0.00
5.06	96.54	1.65	0.00	0.72	0.00	5.08	94.65	1.60	0.00	0.72	0.00
5.10	93.79	1.58	0.00	0.72	0.00	5.12	91.11	1.51	0.00	0.72	0.00
5.14	91.38	1.52	0.00	0.71	0.00	5.16	88.94	1.46	0.00	0.71	0.00
5.18	83.22	1.34	0.02	0.71	0.00	5.20	77.32	1.24	0.04	0.71	0.00
5.22	73.31	1.17	0.06	0.71	0.00	5.24	76.17	1.22	0.05	0.71	0.00
5.26	80.41	1.29	0.02	0.71	0.00	5.28	85.12	1.38	0.00	0.71	0.00
5.30	85.84	1.40	0.00	0.71	0.00	5.32	85.49	1.39	0.00	0.70	0.00
5.34	85.67	1.39	0.00	0.70	0.00	5.36	83.56	1.35	0.02	0.70	0.00
5.38	83.86	1.35	0.00	0.70	0.00	5.40	81.04	1.30	0.02	0.70	0.00
5.42	81.91	1.32	0.02	0.70	0.00	5.44	80.07	1.28	0.02	0.70	0.00
5.46	77.84	1.24	0.04	0.70	0.00	5.48	76.82	1.23	0.04	0.70	0.00
5.50	79.19	1.27	0.03	0.69	0.00	5.52	78.47	1.26	0.03	0.69	0.00
5.54	79.20	2.00	0.00	0.69	0.00	5.56	77.16	2.00	0.00	0.69	0.00
5.58	79.37	2.00	0.00	0.69	0.00	5.60	84.24	2.00	0.00	0.69	0.00
5.62	161.88	2.00	0.00	0.69	0.00	5.64	109.04	2.00	0.00	0.69	0.00
5.66	103.28	2.00	0.00	0.69	0.00	5.68	88.03	2.00	0.00	0.68	0.00
5.70	81.16	2.00	0.00	0.68	0.00	5.72	126.55	2.00	0.00	0.68	0.00
5.74	93.30	2.00	0.00	0.68	0.00	5.76	78.46	2.00	0.00	0.68	0.00
5.78	76.10	2.00	0.00	0.68	0.00	5.80	76.09	2.00	0.00	0.68	0.00
5.82	77.72	2.00	0.00	0.68	0.00	5.84	79.84	1.28	0.02	0.68	0.00
5.86	84.23	1.36	0.00	0.67	0.00	5.88	92.19	1.53	0.00	0.67	0.00
5.90	95.30	1.61	0.00	0.67	0.00	5.92	90.82	1.50	0.00	0.67	0.00
5.94	89.87	1.48	0.00	0.67	0.00	5.96	92.78	1.55	0.00	0.67	0.00
5.98	93.22	1.56	0.00	0.67	0.00	6.00	92.37	1.54	0.00	0.67	0.00
6.02	93.55	1.57	0.00	0.67	0.00	6.04	95.61	1.62	0.00	0.66	0.00
6.06	98.26	1.69	0.00	0.66	0.00	6.08	99.59	1.73	0.00	0.66	0.00
6.10	103.75	1.85	0.00	0.66	0.00	6.12	109.19	2.00	0.00	0.66	0.00
6.14	113.71	2.00	0.00	0.66	0.00	6.16	115.18	2.00	0.00	0.66	0.00
6.18	116.14	2.00	0.00	0.66	0.00	6.20	117.00	2.00	0.00	0.66	0.00
6.22	119.29	2.00	0.00	0.65	0.00	6.24	126.01	2.00	0.00	0.65	0.00
6.26	129.86	2.00	0.00	0.65	0.00	6.28	128.89	2.00	0.00	0.65	0.00
6.30	138.70	2.00	0.00	0.65	0.00	6.32	146.20	2.00	0.00	0.65	0.00
6.34	147.40	2.00	0.00	0.65	0.00	6.36	136.90	2.00	0.00	0.65	0.00
6.38	122.63	2.00	0.00	0.65	0.00	6.40	106.66	1.94	0.00	0.64	0.00
6.42	101.53	2.00	0.00	0.64	0.00	6.44	89.58	2.00	0.00	0.64	0.00
6.46	90.43	2.00	0.00	0.64	0.00	6.48	110.70	2.00	0.00	0.64	0.00
6.50	148.62	2.00	0.00	0.64	0.00	6.52	331.62	2.00	0.00	0.64	0.00
6.54	166.45	2.00	0.00	0.64	0.00	6.56	164.79	2.00	0.00	0.64	0.00
6.58	159.45	2.00	0.00	0.63	0.00	6.60	147.14	2.00	0.00	0.63	0.00
6.62	130.97	2.00	0.00	0.63	0.00	6.64	113.23	2.00	0.00	0.63	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
6.66	101.74	2.00	0.00	0.63	0.00	6.68	184.80	2.00	0.00	0.63	0.00
6.70	154.56	2.00	0.00	0.63	0.00	6.72	171.32	2.00	0.00	0.63	0.00
6.74	214.02	2.00	0.00	0.63	0.00	6.76	124.03	2.00	0.00	0.62	0.00
6.78	126.64	2.00	0.00	0.62	0.00	6.80	129.48	2.00	0.00	0.62	0.00
6.82	127.59	2.00	0.00	0.62	0.00	6.84	125.71	2.00	0.00	0.62	0.00
6.86	121.85	2.00	0.00	0.62	0.00	6.88	113.99	2.00	0.00	0.62	0.00
6.90	105.15	2.00	0.00	0.62	0.00	6.92	96.79	2.00	0.00	0.62	0.00
6.94	89.82	2.00	0.00	0.61	0.00	6.96	176.19	2.00	0.00	0.61	0.00
6.98	164.37	2.00	0.00	0.61	0.00	7.00	132.51	2.00	0.00	0.61	0.00
7.02	87.34	2.00	0.00	0.61	0.00	7.04	77.07	2.00	0.00	0.61	0.00
7.06	82.59	2.00	0.00	0.61	0.00	7.08	89.39	2.00	0.00	0.61	0.00
7.10	88.53	2.00	0.00	0.61	0.00	7.12	135.25	2.00	0.00	0.60	0.00
7.14	197.47	2.00	0.00	0.60	0.00	7.16	102.24	2.00	0.00	0.60	0.00
7.18	95.12	2.00	0.00	0.60	0.00	7.20	177.22	2.00	0.00	0.60	0.00
7.22	174.28	2.00	0.00	0.60	0.00	7.24	156.48	2.00	0.00	0.60	0.00
7.26	136.00	2.00	0.00	0.60	0.00	7.28	144.54	2.00	0.00	0.60	0.00
7.30	189.73	2.00	0.00	0.59	0.00	7.32	94.17	2.00	0.00	0.59	0.00
7.34	85.55	2.00	0.00	0.59	0.00	7.36	140.31	2.00	0.00	0.59	0.00
7.38	159.88	2.00	0.00	0.59	0.00	7.40	83.31	2.00	0.00	0.59	0.00
7.42	84.60	2.00	0.00	0.59	0.00	7.44	82.44	2.00	0.00	0.59	0.00
7.46	79.67	2.00	0.00	0.59	0.00	7.48	80.17	2.00	0.00	0.58	0.00
7.50	81.08	2.00	0.00	0.58	0.00	7.52	82.27	2.00	0.00	0.58	0.00
7.54	81.42	2.00	0.00	0.58	0.00	7.56	166.90	2.00	0.00	0.58	0.00
7.58	121.76	2.00	0.00	0.58	0.00	7.60	91.78	1.54	0.00	0.58	0.00
7.62	89.33	1.48	0.00	0.58	0.00	7.64	108.34	2.00	0.00	0.58	0.00
7.66	146.86	2.00	0.00	0.57	0.00	7.68	175.39	2.00	0.00	0.57	0.00
7.70	162.99	2.00	0.00	0.57	0.00	7.72	130.35	2.00	0.00	0.57	0.00
7.74	113.77	1.97	0.00	0.57	0.00	7.76	130.59	2.00	0.00	0.57	0.00
7.78	153.16	2.00	0.00	0.57	0.00	7.80	166.09	2.00	0.00	0.57	0.00
7.82	152.21	2.00	0.00	0.57	0.00	7.84	141.93	2.00	0.00	0.56	0.00
7.86	120.79	2.00	0.00	0.56	0.00	7.88	98.01	1.69	0.00	0.56	0.00
7.90	99.43	1.73	0.00	0.56	0.00	7.92	121.24	2.00	0.00	0.56	0.00
7.94	134.15	2.00	0.00	0.56	0.00	7.96	166.51	2.00	0.00	0.56	0.00
7.98	83.31	2.00	0.00	0.56	0.00	8.00	84.79	2.00	0.00	0.56	0.00
8.02	79.79	2.00	0.00	0.55	0.00	8.04	74.57	2.00	0.00	0.55	0.00
8.06	72.70	2.00	0.00	0.55	0.00	8.08	73.75	2.00	0.00	0.55	0.00
8.10	74.55	2.00	0.00	0.55	0.00	8.12	72.84	2.00	0.00	0.55	0.00
8.14	120.55	2.00	0.00	0.55	0.00	8.16	84.57	1.38	0.00	0.55	0.00
8.18	82.97	1.35	0.01	0.55	0.00	8.20	111.06	1.89	0.00	0.54	0.00
8.22	133.32	2.00	0.00	0.54	0.00	8.24	155.10	2.00	0.00	0.54	0.00
8.26	81.33	2.00	0.00	0.54	0.00	8.28	82.53	2.00	0.00	0.54	0.00
8.30	81.97	2.00	0.00	0.54	0.00	8.32	81.43	2.00	0.00	0.54	0.00
8.34	82.84	2.00	0.00	0.54	0.00	8.36	155.58	2.00	0.00	0.54	0.00
8.38	125.58	2.00	0.00	0.53	0.00	8.40	68.59	2.00	0.00	0.53	0.00
8.42	65.97	2.00	0.00	0.53	0.00	8.44	63.91	2.00	0.00	0.53	0.00
8.46	67.46	2.00	0.00	0.53	0.00	8.48	73.89	2.00	0.00	0.53	0.00
8.50	83.64	2.00	0.00	0.53	0.00	8.52	94.66	1.61	0.00	0.53	0.00
8.54	101.48	2.00	0.00	0.53	0.00	8.56	109.04	2.00	0.00	0.52	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
8.58	120.87	2.00	0.00	0.52	0.00	8.60	222.54	2.00	0.00	0.52	0.00
8.62	179.83	2.00	0.00	0.52	0.00	8.64	201.05	2.00	0.00	0.52	0.00
8.66	203.27	2.00	0.00	0.52	0.00	8.68	197.95	2.00	0.00	0.52	0.00
8.70	191.41	2.00	0.00	0.52	0.00	8.72	190.44	2.00	0.00	0.52	0.00
8.74	190.47	2.00	0.00	0.51	0.00	8.76	190.03	2.00	0.00	0.51	0.00
8.78	190.88	2.00	0.00	0.51	0.00	8.80	191.67	2.00	0.00	0.51	0.00
8.82	190.46	2.00	0.00	0.51	0.00	8.84	187.33	2.00	0.00	0.51	0.00
8.86	401.58	2.00	0.00	0.51	0.00	8.88	189.56	2.00	0.00	0.51	0.00
8.90	192.77	2.00	0.00	0.51	0.00	8.92	324.40	2.00	0.00	0.50	0.00
8.94	189.61	2.00	0.00	0.50	0.00	8.96	170.37	2.00	0.00	0.50	0.00
8.98	169.06	2.00	0.00	0.50	0.00	9.00	176.01	2.00	0.00	0.50	0.00
9.02	178.23	2.00	0.00	0.50	0.00	9.04	180.12	2.00	0.00	0.50	0.00
9.06	183.02	2.00	0.00	0.50	0.00	9.08	193.71	2.00	0.00	0.50	0.00
9.10	206.28	2.00	0.00	0.49	0.00	9.12	280.82	2.00	0.00	0.49	0.00
9.14	329.81	2.00	0.00	0.49	0.00	9.16	281.26	2.00	0.00	0.49	0.00
9.18	197.44	2.00	0.00	0.49	0.00	9.20	189.42	2.00	0.00	0.49	0.00
9.22	191.29	2.00	0.00	0.49	0.00	9.24	209.71	2.00	0.00	0.49	0.00
9.26	264.73	2.00	0.00	0.49	0.00	9.28	248.97	2.00	0.00	0.48	0.00
9.30	187.33	2.00	0.00	0.48	0.00	9.32	177.54	2.00	0.00	0.48	0.00
9.34	166.55	2.00	0.00	0.48	0.00	9.36	162.72	2.00	0.00	0.48	0.00
9.38	169.53	2.00	0.00	0.48	0.00	9.40	275.25	2.00	0.00	0.48	0.00
9.42	415.53	2.00	0.00	0.48	0.00						

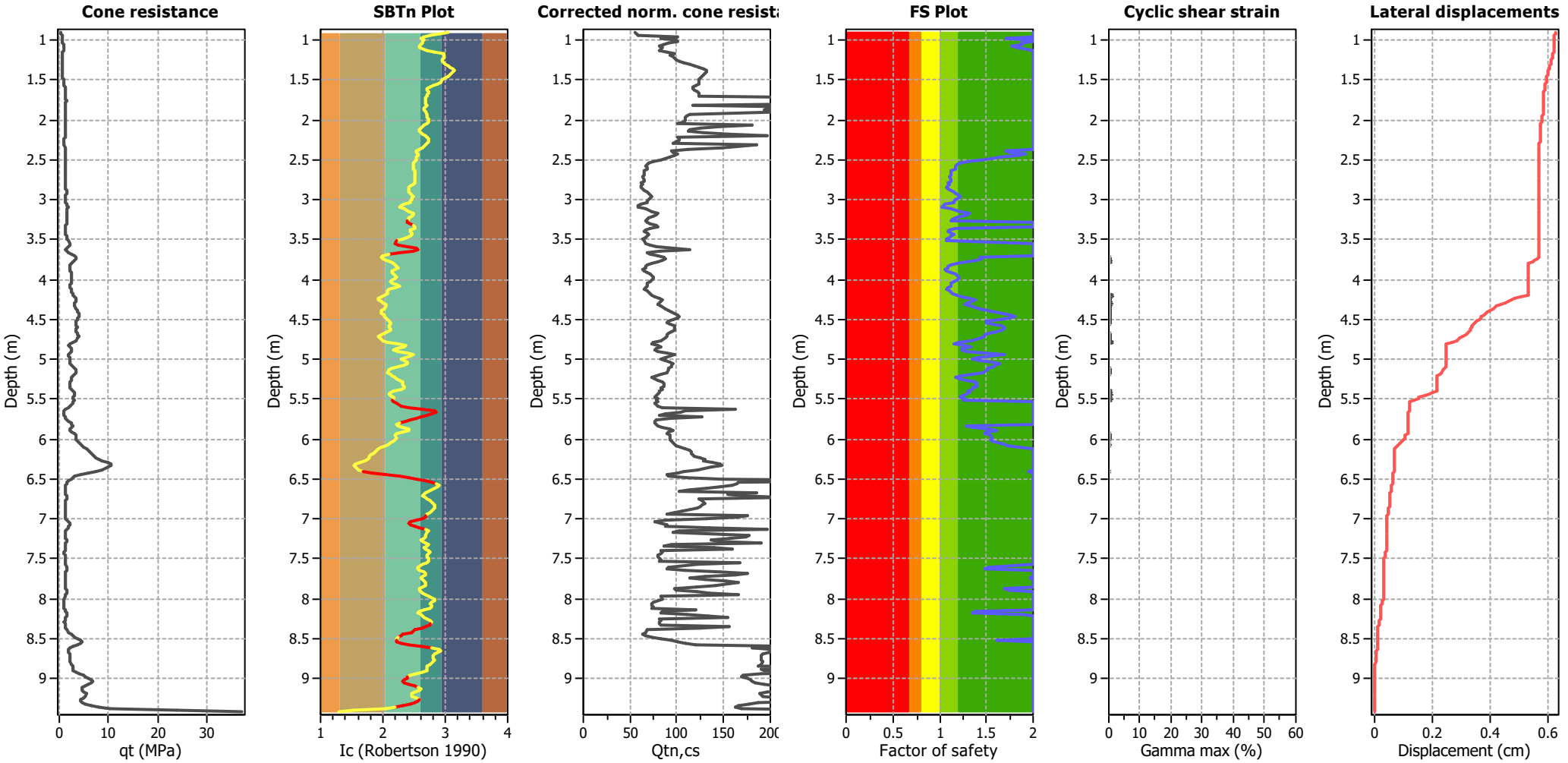
Total estimated settlement: 0.18

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Estimation of post-earthquake lateral Displacements

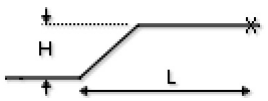
Geometric parameters: Level ground (or gently sloping) with free face (L: 50.00 m - H: 4.60 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
0.90	0.30	5.65	1.47	55.69	2.00	0.00	0.12	0.00
0.92	0.41	7.87	1.30	57.42	2.00	0.00	0.10	0.00
0.94	0.56	10.79	1.15	57.79	2.00	0.00	0.09	0.00
0.96	0.70	13.57	1.04	100.16	2.00	1.09	0.00	0.00
0.98	0.74	14.31	0.96	83.66	1.71	2.82	0.00	0.00
1.00	0.70	13.48	1.02	98.42	2.00	0.86	0.00	0.00
1.02	0.71	13.76	1.05	100.03	2.00	1.53	0.00	0.00
1.04	0.75	14.47	1.04	91.60	1.87	3.21	0.00	0.00
1.06	0.82	15.98	1.10	85.56	1.88	6.47	0.00	0.00
1.08	0.89	17.25	1.16	81.84	1.77	8.99	0.00	0.00
1.10	0.92	17.94	1.24	85.18	1.84	10.30	0.00	0.00
1.12	0.88	17.02	1.94	80.70	2.00	8.55	0.07	0.00
1.14	0.75	14.43	2.47	88.75	2.00	3.10	0.07	0.00
1.16	0.61	11.79	3.30	97.64	2.00	0.00	0.08	0.00
1.18	0.57	10.92	3.08	92.20	2.00	0.00	0.09	0.00
1.20	0.58	11.17	3.28	95.75	2.00	0.00	0.09	0.00
1.22	0.62	11.90	3.33	98.35	2.00	0.00	0.08	0.00
1.24	0.66	12.62	3.30	99.57	2.00	0.00	0.08	0.00
1.26	0.68	13.04	3.43	102.61	2.00	0.00	0.08	0.00
1.28	0.67	12.93	3.79	107.92	2.00	0.00	0.08	0.00
1.30	0.67	12.76	4.19	113.19	2.00	0.00	0.08	0.00
1.32	0.66	12.55	4.61	118.31	2.00	0.00	0.08	0.00
1.34	0.64	12.25	5.08	123.33	2.00	0.00	0.08	0.00
1.36	0.62	11.83	5.62	128.28	2.00	0.00	0.08	0.00
1.38	0.61	11.55	6.00	131.51	2.00	0.00	0.08	0.00
1.40	0.61	11.65	5.96	131.49	2.00	0.00	0.08	0.00
1.42	0.63	12.07	5.67	129.93	2.00	0.00	0.08	0.00
1.44	0.66	12.64	5.32	127.92	2.00	0.00	0.08	0.00
1.46	0.70	13.38	5.04	126.89	2.00	0.60	0.08	0.00
1.48	0.74	14.19	4.75	125.42	2.00	2.55	0.08	0.00
1.50	0.79	15.23	4.45	124.10	2.00	4.89	0.07	0.00
1.52	0.86	16.58	4.20	123.47	2.00	7.68	0.07	0.00
1.54	0.94	18.05	3.98	122.98	2.00	10.50	0.06	0.00
1.56	1.05	20.33	3.62	120.39	2.00	14.42	0.06	0.00
1.58	1.15	22.28	3.33	117.45	2.00	17.44	0.05	0.00
1.60	1.24	23.93	3.18	116.29	2.00	19.80	0.05	0.00
1.62	1.25	24.23	3.27	118.84	2.00	20.21	0.05	0.00
1.64	1.26	24.40	3.39	121.73	2.00	20.44	0.05	0.00
1.66	1.28	24.79	3.44	123.31	2.00	20.97	0.05	0.00
1.68	1.32	25.48	3.40	123.26	2.00	21.88	0.05	0.00
1.70	1.34	26.00	3.37	123.23	2.00	22.54	0.05	0.00
1.72	1.36	26.42	3.33	259.38	2.00	23.07	0.00	0.00
1.74	1.38	26.73	3.27	248.90	2.00	23.45	0.00	0.00
1.76	1.39	26.92	3.19	236.70	2.00	23.68	0.00	0.00
1.78	1.37	26.51	3.15	235.23	2.00	23.18	0.00	0.00
1.80	1.33	25.64	3.17	246.48	2.00	22.07	0.00	0.00
1.82	1.29	24.91	3.18	117.72	2.00	21.13	0.05	0.00
1.84	1.27	24.45	2.87	219.95	2.00	20.51	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
1.86	1.32	25.55	2.77	196.25	2.00	21.97	0.00	0.00
1.88	1.33	25.65	2.75	193.51	2.00	22.09	0.00	0.00
1.90	1.32	25.53	3.02	228.71	2.00	21.94	0.00	0.00
1.92	1.25	24.08	3.04	113.61	2.00	20.00	0.05	0.00
1.94	1.21	23.35	2.95	110.70	2.00	18.99	0.05	0.00
1.96	1.18	22.74	2.90	108.94	2.00	18.12	0.05	0.00
1.98	1.15	22.17	2.93	109.02	2.00	17.28	0.05	0.00
2.00	1.13	21.62	2.95	108.86	2.00	16.45	0.06	0.00
2.02	1.11	21.31	2.86	106.57	2.00	15.98	0.06	0.00
2.04	1.12	21.40	2.61	101.12	2.00	16.11	0.06	0.00
2.06	1.14	21.88	2.35	180.26	2.00	16.84	0.00	0.00
2.08	1.17	22.52	2.12	146.78	2.00	17.79	0.00	0.00
2.10	1.20	23.07	1.96	124.79	2.00	18.59	0.00	0.00
2.12	1.22	23.49	1.87	113.69	2.00	19.19	0.00	0.00
2.14	1.24	23.77	1.87	111.72	2.00	19.57	0.00	0.00
2.16	1.23	23.56	2.02	128.47	2.00	19.29	0.00	0.00
2.18	1.19	22.81	2.22	156.41	2.00	18.22	0.00	0.00
2.20	1.14	21.77	2.47	197.25	2.00	16.67	0.00	0.00
2.22	1.09	20.82	2.62	100.72	2.00	15.20	0.06	0.00
2.24	1.06	20.33	2.70	102.04	2.00	14.41	0.06	0.00
2.26	1.05	20.05	2.71	101.96	2.00	13.96	0.06	0.00
2.28	1.05	20.09	2.58	99.17	2.00	14.03	0.06	0.00
2.30	1.05	20.07	2.45	96.21	2.00	13.99	0.06	0.00
2.32	1.06	20.29	2.25	186.04	2.00	14.36	0.00	0.00
2.34	1.12	21.36	2.04	148.28	2.00	16.05	0.00	0.00
2.36	1.19	22.84	1.80	111.44	2.00	18.25	0.00	0.00
2.38	1.27	24.24	1.70	93.67	1.71	20.22	0.00	0.00
2.40	1.29	24.79	1.76	95.58	1.76	20.96	0.00	0.00
2.42	1.30	25.00	1.83	101.07	1.92	21.24	0.00	0.00
2.44	1.31	25.03	1.80	98.35	1.83	21.28	0.00	0.00
2.46	1.30	24.89	1.72	92.12	1.66	21.10	0.00	0.00
2.48	1.29	24.72	1.66	87.84	1.55	20.88	0.00	0.00
2.50	1.27	24.30	1.58	82.90	1.44	20.30	0.00	0.00
2.52	1.25	23.97	1.47	75.21	1.29	19.86	0.00	0.00
2.54	1.24	23.66	1.34	70.29	1.21	19.42	0.00	0.00
2.56	1.23	23.51	1.27	68.20	1.18	19.21	0.00	0.00
2.58	1.22	23.31	1.24	67.24	1.17	18.93	0.00	0.00
2.60	1.21	23.00	1.25	67.50	1.17	18.50	0.00	0.00
2.62	1.19	22.75	1.25	67.54	1.17	18.13	0.00	0.00
2.64	1.18	22.51	1.26	64.51	1.13	17.79	0.00	0.00
2.66	1.17	22.30	1.24	64.36	1.12	17.47	0.00	0.00
2.68	1.17	22.22	1.24	64.76	1.13	17.36	0.00	0.00
2.70	1.17	22.19	1.24	64.63	1.12	17.30	0.00	0.00
2.72	1.17	22.15	1.22	63.54	1.11	17.26	0.00	0.00
2.74	1.15	21.90	1.22	64.38	1.12	16.87	0.00	0.00
2.76	1.14	21.61	1.20	64.38	1.11	16.43	0.00	0.00
2.78	1.14	21.62	1.17	61.93	1.08	16.44	0.00	0.00
2.80	1.17	22.27	1.13	63.73	1.10	17.43	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
2.82	1.23	23.47	1.06	62.19	1.08	19.17	0.00	0.00
2.84	1.30	24.85	1.03	61.76	1.08	21.05	0.00	0.00
2.86	1.36	25.91	1.05	62.93	1.09	22.42	0.00	0.00
2.88	1.40	26.71	1.12	65.41	1.12	23.43	0.00	0.00
2.90	1.42	27.02	1.21	68.05	1.15	23.81	0.00	0.00
2.92	1.41	26.85	1.27	69.76	1.17	23.59	0.00	0.00
2.94	1.37	26.18	1.36	72.19	1.21	22.77	0.00	0.00
2.96	1.35	25.66	1.38	72.67	1.22	22.11	0.00	0.00
2.98	1.35	25.67	1.35	71.58	1.20	22.12	0.00	0.00
3.00	1.36	25.94	1.27	69.42	1.16	22.46	0.00	0.00
3.02	1.37	26.00	1.24	68.49	1.15	22.54	0.00	0.00
3.04	1.36	25.86	1.24	68.70	1.15	22.36	0.00	0.00
3.06	1.49	28.53	0.95	61.02	1.06	25.61	0.00	0.00
3.08	1.62	30.95	0.85	59.04	1.03	28.29	0.00	0.00
3.10	1.71	32.75	0.79	58.20	1.03	30.15	0.00	0.00
3.12	1.63	31.10	1.10	66.54	1.12	28.45	0.00	0.00
3.14	1.53	29.25	1.36	73.49	1.22	26.43	0.00	0.00
3.16	1.46	27.82	1.57	79.27	1.31	24.77	0.00	0.00
3.18	1.45	27.61	1.54	78.23	1.29	24.52	0.00	0.00
3.20	1.46	27.72	1.42	74.83	1.24	24.65	0.00	0.00
3.22	1.48	28.18	1.27	70.40	1.17	25.20	0.00	0.00
3.24	1.50	28.51	1.19	68.38	1.14	25.58	0.00	0.00
3.26	1.53	29.22	1.15	67.38	1.12	26.39	0.00	0.00
3.28	1.54	29.34	1.20	69.05	2.00	26.53	0.00	0.00
3.30	1.48	28.17	1.31	71.62	2.00	25.19	0.00	0.00
3.32	1.38	26.14	1.55	77.86	2.00	22.72	0.00	0.00
3.34	1.30	24.64	1.55	80.32	2.00	20.77	0.00	0.00
3.36	1.28	24.29	1.42	71.07	1.17	20.29	0.00	0.00
3.38	1.32	24.99	1.16	65.91	1.10	21.23	0.00	0.00
3.40	1.33	25.26	1.15	65.72	1.10	21.59	0.00	0.00
3.42	1.33	25.20	1.22	68.03	1.12	21.50	0.00	0.00
3.44	1.33	25.21	1.29	69.94	1.15	21.52	0.00	0.00
3.46	1.39	26.31	1.22	68.20	1.13	22.93	0.00	0.00
3.48	1.49	28.40	1.12	66.25	1.10	25.45	0.00	0.00
3.50	1.66	31.63	1.00	64.02	1.07	29.01	0.00	0.00
3.52	1.99	38.24	0.90	64.85	1.08	35.27	0.00	0.00
3.54	2.17	41.65	0.89	66.74	2.00	38.09	0.00	0.00
3.56	2.13	40.85	1.07	71.08	2.00	37.45	0.00	0.00
3.58	1.78	33.98	1.44	78.38	2.00	31.37	0.00	0.00
3.60	1.48	28.14	1.93	96.55	2.00	25.14	0.00	0.00
3.62	1.37	25.88	1.99	114.31	2.00	22.38	0.00	0.00
3.64	1.50	28.50	1.64	81.91	2.00	25.56	0.00	0.00
3.66	1.96	37.52	1.05	68.54	2.00	34.64	0.00	0.00
3.68	2.60	50.13	0.78	70.83	2.00	44.21	0.00	0.00
3.70	3.17	61.34	0.68	79.61	2.00	50.87	0.00	0.00
3.72	3.48	67.42	0.72	86.51	1.43	53.99	0.43	0.01
3.74	3.45	66.98	0.80	87.32	1.45	53.77	0.40	0.01
3.76	3.20	61.93	0.93	84.67	1.39	51.19	0.51	0.01

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
3.78	2.82	54.54	0.98	79.05	1.28	46.99	0.86	0.02
3.80	2.49	47.93	0.95	73.04	1.18	42.73	0.00	0.00
3.82	2.27	43.58	0.91	68.69	1.12	39.59	0.00	0.00
3.84	2.12	40.66	0.92	66.80	1.10	37.30	0.00	0.00
3.86	2.03	38.94	0.94	66.41	1.09	35.87	0.00	0.00
3.88	2.08	39.85	0.84	64.19	1.06	36.63	0.00	0.00
3.90	2.25	43.22	0.78	65.15	1.07	39.31	0.00	0.00
3.92	2.41	46.26	0.84	69.01	1.12	41.56	0.00	0.00
3.94	2.42	46.43	0.96	71.99	1.16	41.68	0.00	0.00
3.96	2.35	45.13	1.07	74.09	1.20	40.74	0.00	0.00
3.98	2.41	46.22	1.04	74.09	1.20	41.53	0.00	0.00
4.00	2.51	48.30	0.95	73.25	1.18	42.98	0.00	0.00
4.02	2.54	48.77	0.85	71.32	1.15	43.30	0.00	0.00
4.04	2.36	45.35	0.86	68.88	1.12	40.90	0.00	0.00
4.06	2.13	40.69	0.99	68.88	1.12	37.32	0.00	0.00
4.08	2.04	38.94	1.03	69.06	1.12	35.87	0.00	0.00
4.10	2.18	41.68	0.90	67.03	1.09	38.11	0.00	0.00
4.12	2.40	46.09	0.70	65.51	1.07	41.43	0.00	0.00
4.14	2.56	49.13	0.68	67.81	1.10	43.54	0.00	0.00
4.16	2.59	49.86	0.71	69.21	1.12	44.03	0.00	0.00
4.18	2.65	50.89	0.76	71.05	1.15	44.70	0.00	0.00
4.20	2.85	54.95	0.68	73.39	1.18	47.24	1.47	0.03
4.22	3.09	59.69	0.62	77.02	1.24	49.97	1.09	0.02
4.24	3.38	65.39	0.57	82.00	1.33	52.98	0.70	0.01
4.26	3.50	67.72	0.62	85.11	1.39	54.13	0.52	0.01
4.28	3.37	65.09	0.67	83.32	1.35	52.83	0.62	0.01
4.30	3.19	61.57	0.74	80.94	1.30	50.99	0.77	0.01
4.32	3.03	58.51	0.80	78.98	1.27	49.31	0.92	0.02
4.34	3.17	61.11	0.84	82.20	1.33	50.75	0.69	0.01
4.36	3.39	65.46	0.87	87.04	1.42	53.02	0.44	0.01
4.38	3.62	70.15	0.82	90.86	1.51	55.30	0.58	0.01
4.40	3.81	73.87	0.82	94.66	1.60	57.00	0.45	0.01
4.42	3.88	75.26	0.89	97.24	1.67	57.62	0.37	0.01
4.44	3.93	76.08	1.02	100.31	1.75	57.98	0.30	0.01
4.46	3.94	76.28	1.11	102.17	1.81	58.06	0.26	0.00
4.48	3.82	74.06	1.11	100.01	1.74	57.09	0.31	0.01
4.50	3.63	70.19	1.11	96.20	1.64	55.32	0.40	0.01
4.52	3.35	64.74	1.09	90.61	1.50	52.65	0.31	0.01
4.54	3.25	62.73	1.14	90.07	1.49	51.61	0.33	0.01
4.56	3.34	64.46	1.20	92.86	1.56	52.50	0.25	0.00
4.58	3.54	68.41	1.22	96.95	1.66	54.47	0.17	0.00
4.60	3.59	69.41	1.24	98.32	1.70	54.95	0.14	0.00
4.62	3.53	68.15	1.27	97.83	1.68	54.35	0.15	0.00
4.64	3.46	66.76	1.28	96.86	1.66	53.66	0.17	0.00
4.66	3.52	67.98	1.14	94.84	1.61	54.26	0.20	0.00
4.68	3.63	69.10	0.92	91.63	1.53	54.80	0.28	0.01
4.70	3.74	69.65	0.76	89.40	1.48	55.06	0.64	0.01
4.72	3.87	70.93	0.68	89.34	1.47	55.66	0.64	0.01

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
4.74	3.80	69.56	0.67	87.92	1.44	55.02	0.71	0.01
4.76	3.42	63.60	0.74	82.96	1.34	52.06	0.65	0.01
4.78	2.80	53.46	0.82	74.71	1.20	46.33	1.35	0.02
4.80	2.21	42.08	1.08	72.47	1.16	38.43	0.00	0.00
4.82	1.93	36.64	1.40	78.96	1.27	33.86	0.00	0.00
4.84	2.08	39.55	1.47	82.58	1.33	36.38	0.00	0.00
4.86	2.40	45.76	1.17	77.57	1.24	41.20	0.00	0.00
4.88	2.56	48.93	1.07	76.94	1.23	43.41	0.00	0.00
4.90	2.37	45.21	1.27	80.02	1.28	40.80	0.00	0.00
4.92	2.03	38.47	1.73	89.91	1.48	35.47	0.00	0.00
4.94	1.82	34.35	2.07	98.18	1.69	31.73	0.00	0.00
4.96	1.88	35.56	1.87	92.78	1.55	32.87	0.00	0.00
4.98	2.13	40.37	1.60	87.08	1.42	37.06	0.00	0.00
5.00	2.29	43.61	1.42	83.43	1.35	39.61	0.00	0.00
5.02	2.24	42.55	1.57	87.33	1.43	38.79	0.00	0.00
5.04	2.10	39.86	1.81	93.31	1.56	36.64	0.00	0.00
5.06	2.14	40.53	1.90	96.54	1.65	37.19	0.00	0.00
5.08	2.36	44.92	1.76	94.65	1.60	40.59	0.00	0.00
5.10	2.77	53.09	1.56	93.79	1.58	46.10	0.23	0.00
5.12	3.19	60.02	1.28	91.11	1.51	50.15	0.30	0.01
5.14	3.50	64.42	1.13	91.38	1.52	52.49	0.29	0.01
5.16	3.52	64.21	1.03	88.94	1.46	52.38	0.37	0.01
5.18	3.14	57.67	1.04	83.22	1.34	48.83	0.64	0.01
5.20	2.75	50.89	1.02	77.32	1.24	44.70	0.00	0.00
5.22	2.47	46.00	1.01	73.31	1.17	41.37	0.00	0.00
5.24	2.42	45.55	1.13	76.17	1.22	41.04	0.00	0.00
5.26	2.33	44.23	1.30	80.41	1.29	40.07	0.00	0.00
5.28	2.24	42.41	1.49	85.12	1.38	38.69	0.00	0.00
5.30	2.25	42.62	1.51	85.84	1.40	38.85	0.00	0.00
5.32	2.22	42.11	1.51	85.49	1.39	38.46	0.00	0.00
5.34	2.14	40.56	1.55	85.67	1.39	37.21	0.00	0.00
5.36	2.15	40.77	1.47	83.56	1.35	37.39	0.00	0.00
5.38	2.40	45.11	1.40	83.86	1.35	40.72	0.00	0.00
5.40	2.89	52.50	1.12	81.04	1.30	45.73	0.78	0.01
5.42	3.20	56.92	1.01	81.91	1.32	48.40	0.73	0.01
5.44	3.23	56.98	0.92	80.07	1.28	48.43	0.86	0.02
5.46	3.00	53.26	0.97	77.84	1.24	46.20	1.04	0.02
5.48	2.82	50.45	1.02	76.82	1.23	44.41	0.00	0.00
5.50	2.88	51.52	1.08	79.19	1.27	45.11	0.93	0.02
5.52	2.94	52.13	1.03	78.47	1.26	45.50	0.99	0.02
5.54	2.91	51.70	1.07	79.20	2.00	45.23	0.00	0.00
5.56	2.63	47.18	1.12	77.16	2.00	42.21	0.00	0.00
5.58	2.30	42.04	1.31	79.37	2.00	38.40	0.00	0.00
5.60	1.79	33.61	1.61	84.24	2.00	31.01	0.00	0.00
5.62	1.34	24.63	2.30	161.88	2.00	20.75	0.00	0.00
5.64	0.99	17.65	3.03	109.04	2.00	9.75	0.07	0.00
5.66	0.90	15.91	2.86	103.28	2.00	6.32	0.07	0.00
5.68	0.90	15.94	2.13	88.03	2.00	6.39	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
5.70	0.95	16.89	1.80	81.16	2.00	8.30	0.07	0.00
5.72	1.13	20.37	1.68	126.55	2.00	14.49	0.00	0.00
5.74	1.32	24.25	1.63	93.30	2.00	20.24	0.00	0.00
5.76	1.59	29.48	1.48	78.46	2.00	26.68	0.00	0.00
5.78	1.91	34.72	1.33	76.10	2.00	32.08	0.00	0.00
5.80	2.32	41.21	1.22	76.09	2.00	37.74	0.00	0.00
5.82	2.62	45.84	1.17	77.72	2.00	41.25	0.00	0.00
5.84	2.63	46.19	1.24	79.84	1.28	41.50	0.00	0.00
5.86	2.41	42.96	1.45	84.23	1.36	39.12	0.00	0.00
5.88	2.12	38.59	1.79	92.19	1.53	35.58	0.00	0.00
5.90	2.12	38.69	1.88	95.30	1.61	35.66	0.00	0.00
5.92	2.54	45.14	1.63	90.82	1.50	40.74	0.00	0.00
5.94	3.07	53.17	1.42	89.87	1.48	46.15	0.35	0.01
5.96	3.35	57.58	1.41	92.78	1.55	48.78	0.26	0.00
5.98	3.32	57.04	1.44	93.22	1.56	48.47	0.25	0.00
6.00	3.36	57.38	1.40	92.37	1.54	48.66	0.27	0.00
6.02	3.60	60.79	1.35	93.55	1.57	50.57	0.24	0.00
6.04	3.94	65.73	1.26	95.61	1.62	53.15	0.19	0.00
6.06	4.25	70.10	1.21	98.26	1.69	55.27	0.35	0.01
6.08	4.56	74.04	1.09	99.59	1.73	57.08	0.32	0.01
6.10	5.03	80.25	0.97	103.75	1.85	59.74	0.24	0.00
6.12	5.54	86.93	0.88	109.19	2.00	62.38	0.00	0.00
6.14	5.94	92.16	0.84	113.71	2.00	64.30	0.00	0.00
6.16	6.13	94.32	0.81	115.18	2.00	65.07	0.00	0.00
6.18	6.35	96.83	0.75	116.14	2.00	65.94	0.00	0.00
6.20	6.65	100.20	0.69	117.00	2.00	67.07	0.00	0.00
6.22	7.07	105.42	0.65	119.29	2.00	68.74	0.00	0.00
6.24	7.53	112.04	0.69	126.01	2.00	70.75	0.00	0.00
6.26	8.08	119.22	0.69	129.86	2.00	72.80	0.00	0.00
6.28	8.74	127.31	0.64	128.89	2.00	74.97	0.00	0.00
6.30	9.78	138.70	0.51	138.70	2.00	77.80	0.00	0.00
6.32	10.50	146.20	0.43	146.20	2.00	79.54	0.00	0.00
6.34	10.66	147.40	0.40	147.40	2.00	79.81	0.00	0.00
6.36	9.85	136.90	0.40	136.90	2.00	77.37	0.00	0.00
6.38	8.75	122.63	0.40	122.63	2.00	73.73	0.00	0.00
6.40	7.49	106.66	0.43	106.66	1.94	69.13	0.47	0.01
6.42	5.77	85.42	0.59	101.53	2.00	61.80	0.00	0.00
6.44	4.22	65.83	0.98	89.58	2.00	53.20	0.00	0.00
6.46	3.13	51.01	1.49	90.43	2.00	44.78	0.00	0.00
6.48	2.67	45.14	2.26	110.70	2.00	40.75	0.00	0.00
6.50	2.35	40.84	3.09	148.62	2.00	37.44	0.00	0.00
6.52	1.96	34.98	4.28	331.62	2.00	32.33	0.00	0.00
6.54	1.65	29.68	4.83	166.45	2.00	26.91	0.04	0.00
6.56	1.41	25.48	5.09	164.79	2.00	21.87	0.05	0.00
6.58	1.24	22.38	5.13	159.45	2.00	17.59	0.05	0.00
6.60	1.20	21.49	4.58	147.14	2.00	16.25	0.06	0.00
6.62	1.18	20.82	3.82	130.97	2.00	15.21	0.06	0.00
6.64	1.17	20.24	3.03	113.23	2.00	14.27	0.06	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.66	1.19	20.19	2.52	101.74	2.00	14.19	0.06	0.00
6.68	1.23	20.67	2.14	184.80	2.00	14.97	0.00	0.00
6.70	1.27	21.17	1.96	154.56	2.00	15.76	0.00	0.00
6.72	1.41	23.65	2.28	171.32	2.00	19.41	0.00	0.00
6.74	1.48	24.97	2.71	214.02	2.00	21.20	0.00	0.00
6.76	1.50	25.53	3.24	124.03	2.00	21.93	0.05	0.00
6.78	1.37	23.37	3.45	126.64	2.00	19.02	0.05	0.00
6.80	1.28	21.87	3.68	129.48	2.00	16.83	0.06	0.00
6.82	1.23	20.96	3.65	127.59	2.00	15.43	0.06	0.00
6.84	1.20	20.30	3.61	125.71	2.00	14.37	0.06	0.00
6.86	1.17	19.77	3.46	121.85	2.00	13.49	0.06	0.00
6.88	1.15	19.30	3.11	113.99	2.00	12.71	0.06	0.00
6.90	1.15	18.94	2.73	105.15	2.00	12.09	0.06	0.00
6.92	1.14	18.66	2.37	96.79	2.00	11.59	0.06	0.00
6.94	1.15	18.55	2.08	89.82	2.00	11.39	0.06	0.00
6.96	1.15	18.54	1.89	176.19	2.00	11.38	0.00	0.00
6.98	1.19	18.97	1.85	164.37	2.00	12.14	0.00	0.00
7.00	1.30	20.76	1.75	132.51	2.00	15.11	0.00	0.00
7.02	1.57	24.71	1.58	87.34	2.00	20.86	0.00	0.00
7.04	1.94	30.30	1.42	77.07	2.00	27.59	0.00	0.00
7.06	2.19	34.13	1.54	82.59	2.00	31.51	0.00	0.00
7.08	2.22	34.70	1.75	89.39	2.00	32.07	0.00	0.00
7.10	1.99	31.37	1.95	88.53	2.00	28.73	0.00	0.00
7.12	1.70	27.07	2.21	135.25	2.00	23.86	0.00	0.00
7.14	1.45	23.12	2.44	197.47	2.00	18.67	0.00	0.00
7.16	1.30	20.72	2.52	102.24	2.00	15.05	0.06	0.00
7.18	1.25	19.82	2.26	95.12	2.00	13.58	0.06	0.00
7.20	1.26	19.77	2.01	177.22	2.00	13.50	0.00	0.00
7.22	1.28	20.09	2.02	174.28	2.00	14.02	0.00	0.00
7.24	1.36	21.16	1.97	156.48	2.00	15.74	0.00	0.00
7.26	1.47	22.76	1.92	136.00	2.00	18.14	0.00	0.00
7.28	1.49	23.12	2.02	144.54	2.00	18.66	0.00	0.00
7.30	1.38	21.52	2.25	189.73	2.00	16.30	0.00	0.00
7.32	1.23	19.04	2.25	94.17	2.00	12.25	0.06	0.00
7.34	1.16	17.81	1.93	85.55	2.00	10.06	0.06	0.00
7.36	1.17	17.77	1.57	140.31	2.00	9.97	0.00	0.00
7.38	1.14	17.31	1.67	159.88	2.00	9.12	0.00	0.00
7.40	1.09	16.59	1.87	83.31	2.00	7.71	0.07	0.00
7.42	1.05	15.84	1.95	84.60	2.00	6.19	0.07	0.00
7.44	1.06	15.96	1.86	82.44	2.00	6.43	0.07	0.00
7.46	1.08	16.22	1.73	79.67	2.00	6.96	0.07	0.00
7.48	1.10	16.48	1.75	80.17	2.00	7.49	0.07	0.00
7.50	1.09	16.29	1.79	81.08	2.00	7.10	0.07	0.00
7.52	1.07	16.08	1.85	82.27	2.00	6.68	0.07	0.00
7.54	1.07	16.03	1.81	81.42	2.00	6.57	0.07	0.00
7.56	1.12	16.69	1.66	166.90	2.00	7.90	0.00	0.00
7.58	1.24	18.25	1.47	121.76	2.00	10.86	0.00	0.00
7.60	1.40	20.66	1.38	91.78	1.54	14.96	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
7.62	1.51	22.19	1.45	89.33	1.48	17.30	0.00	0.00
7.64	1.46	21.56	1.59	108.34	2.00	16.36	0.00	0.00
7.66	1.32	19.49	1.76	146.86	2.00	13.02	0.00	0.00
7.68	1.21	17.90	1.83	175.39	2.00	10.21	0.00	0.00
7.70	1.20	17.67	1.72	162.99	2.00	9.80	0.00	0.00
7.72	1.27	18.56	1.56	130.35	2.00	11.41	0.00	0.00
7.74	1.33	19.40	1.49	113.77	1.97	12.87	0.00	0.00
7.76	1.34	19.59	1.64	130.59	2.00	13.20	0.00	0.00
7.78	1.26	18.38	1.71	153.16	2.00	11.09	0.00	0.00
7.80	1.18	17.04	1.68	166.09	2.00	8.58	0.00	0.00
7.82	1.12	16.07	1.50	152.21	2.00	6.65	0.00	0.00
7.84	1.13	16.13	1.44	141.93	2.00	6.78	0.00	0.00
7.86	1.20	17.09	1.36	120.79	2.00	8.68	0.00	0.00
7.88	1.30	18.57	1.29	98.01	1.69	11.43	0.00	0.00
7.90	1.39	19.89	1.40	99.43	1.73	13.69	0.00	0.00
7.92	1.41	20.19	1.61	121.24	2.00	14.20	0.00	0.00
7.94	1.40	20.08	1.71	134.15	2.00	14.01	0.00	0.00
7.96	1.30	18.61	1.83	166.51	2.00	11.51	0.00	0.00
7.98	1.16	16.49	1.87	83.31	2.00	7.52	0.07	0.00
8.00	0.99	13.96	2.03	84.79	2.00	2.02	0.08	0.00
8.02	0.92	12.91	1.85	79.79	2.00	0.00	0.08	0.00
8.04	0.93	12.97	1.62	74.57	2.00	0.00	0.08	0.00
8.06	0.96	13.31	1.53	72.70	2.00	0.44	0.08	0.00
8.08	0.96	13.35	1.57	73.75	2.00	0.54	0.08	0.00
8.10	0.97	13.38	1.60	74.55	2.00	0.61	0.08	0.00
8.12	1.01	14.00	1.51	72.84	2.00	2.11	0.08	0.00
8.14	1.18	16.26	1.29	120.55	2.00	7.04	0.00	0.00
8.16	1.31	18.11	1.14	84.57	1.38	10.60	0.00	0.00
8.18	1.41	19.43	1.21	82.97	1.35	12.92	0.00	0.00
8.20	1.39	19.36	1.46	111.06	1.89	12.81	0.00	0.00
8.22	1.38	19.28	1.64	133.32	2.00	12.66	0.00	0.00
8.24	1.33	18.53	1.74	155.10	2.00	11.35	0.00	0.00
8.26	1.20	16.64	1.79	81.33	2.00	7.80	0.07	0.00
8.28	1.10	15.10	1.88	82.53	2.00	4.61	0.07	0.00
8.30	1.07	14.63	1.88	81.97	2.00	3.57	0.07	0.00
8.32	1.11	15.23	1.83	81.43	2.00	4.90	0.07	0.00
8.34	1.15	15.83	1.87	82.84	2.00	6.16	0.07	0.00
8.36	1.29	17.63	1.66	155.58	2.00	9.72	0.00	0.00
8.38	1.35	18.37	1.50	125.58	2.00	11.08	0.00	0.00
8.40	1.62	21.93	1.21	68.59	2.00	16.92	0.00	0.00
8.42	1.77	23.91	1.13	65.97	2.00	19.78	0.00	0.00
8.44	2.34	31.40	0.97	63.91	2.00	28.77	0.00	0.00
8.46	2.66	35.72	1.02	67.46	2.00	33.02	0.00	0.00
8.48	3.19	42.72	1.10	73.89	2.00	38.93	0.00	0.00
8.50	3.73	50.09	1.27	83.64	2.00	44.18	0.00	0.00
8.52	4.32	57.95	1.46	94.66	1.61	48.99	0.20	0.00
8.54	4.56	61.29	1.62	101.48	2.00	50.84	0.00	0.00
8.56	4.19	56.85	1.97	109.04	2.00	48.36	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.58	3.56	48.88	2.50	120.87	2.00	43.37	0.00	0.00
8.60	2.79	39.15	3.69	222.54	2.00	36.05	0.00	0.00
8.62	2.22	31.60	5.27	179.83	2.00	28.98	0.04	0.00
8.64	1.90	27.17	6.75	201.05	2.00	23.99	0.05	0.00
8.66	1.89	27.07	6.88	203.27	2.00	23.87	0.05	0.00
8.68	1.99	28.38	6.44	197.95	2.00	25.43	0.04	0.00
8.70	2.15	30.36	5.91	191.41	2.00	27.66	0.04	0.00
8.72	2.25	31.77	5.73	190.44	2.00	29.15	0.04	0.00
8.74	2.28	32.06	5.71	190.47	2.00	29.45	0.04	0.00
8.76	2.23	31.32	5.75	190.03	2.00	28.69	0.04	0.00
8.78	2.20	30.79	5.84	190.88	2.00	28.12	0.04	0.00
8.80	2.29	32.01	5.77	191.67	2.00	29.40	0.04	0.00
8.82	2.55	35.40	5.46	190.46	2.00	32.73	0.03	0.00
8.84	2.78	38.51	5.14	187.33	2.00	35.50	0.03	0.00
8.86	2.88	39.67	5.03	401.58	2.00	36.48	0.00	0.00
8.88	2.86	39.37	5.18	189.56	2.00	36.23	0.03	0.00
8.90	2.90	39.85	5.27	192.77	2.00	36.63	0.03	0.00
8.92	3.32	45.35	4.83	324.40	2.00	40.90	0.00	0.00
8.94	4.11	55.47	4.11	189.61	2.00	47.55	0.00	0.00
8.96	4.83	64.59	3.67	170.37	2.00	52.57	0.00	0.00
8.98	5.36	71.24	3.47	169.06	2.00	55.81	0.00	0.00
9.00	5.79	76.71	3.55	176.01	2.00	58.25	0.00	0.00
9.02	6.36	83.84	3.45	178.23	2.00	61.18	0.00	0.00
9.04	6.82	89.43	3.37	180.12	2.00	63.31	0.00	0.00
9.06	6.58	86.28	3.53	183.02	2.00	62.13	0.00	0.00
9.08	5.98	78.93	3.99	193.71	2.00	59.19	0.00	0.00
9.10	5.22	69.45	4.74	206.28	2.00	54.97	0.00	0.00
9.12	4.77	63.65	5.26	280.82	2.00	52.09	0.00	0.00
9.14	4.51	60.11	5.53	329.81	2.00	50.20	0.00	0.00
9.16	4.61	61.13	5.17	281.26	2.00	50.76	0.00	0.00
9.18	5.05	66.38	4.55	197.44	2.00	53.47	0.00	0.00
9.20	5.45	71.09	4.06	189.42	2.00	55.74	0.00	0.00
9.22	5.30	69.00	4.17	191.29	2.00	54.75	0.00	0.00
9.24	4.79	62.60	4.56	209.71	2.00	51.54	0.00	0.00
9.26	4.39	57.40	4.89	264.73	2.00	48.68	0.00	0.00
9.28	4.37	56.93	4.73	248.97	2.00	48.41	0.00	0.00
9.30	4.66	60.21	4.25	187.33	2.00	50.25	0.00	0.00
9.32	5.24	67.30	3.81	177.54	2.00	53.93	0.00	0.00
9.34	6.58	83.31	3.13	166.55	2.00	60.97	0.00	0.00
9.36	8.09	100.98	2.57	162.72	2.00	67.32	0.00	0.00
9.38	10.13	124.39	2.01	169.53	2.00	74.20	0.00	0.00
9.40	23.81	275.25	0.86	275.25	2.00	100.00	0.00	0.00
9.42	37.13	415.53	0.56	415.53	2.00	100.00	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)

Total estimated displacement: 0.62

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
0.90	0.30	5.65	9.86	55.69	3.06	0.50	2.30
0.92	0.41	7.87	7.30	57.42	2.91	0.09	0.65
0.94	0.56	10.79	5.36	57.79	2.76	0.09	0.65
0.96	0.70	13.57	4.19	56.92	2.65	0.75	0.75
0.98	0.74	14.31	3.86	55.20	2.61	0.72	0.72
1.00	0.70	13.48	4.18	56.32	2.65	0.75	0.75
1.02	0.71	13.76	4.17	57.38	2.65	0.75	0.75
1.04	0.75	14.47	3.97	57.45	2.62	0.73	0.73
1.06	0.82	15.98	3.74	59.74	2.60	0.72	0.72
1.08	0.89	17.25	3.58	61.78	2.58	0.68	0.71
1.10	0.92	17.94	3.58	64.28	2.58	0.72	0.72
1.12	0.88	17.02	4.74	80.70	2.70	0.62	0.71
1.14	0.75	14.43	6.15	88.75	2.82	0.73	0.73
1.16	0.61	11.79	8.28	97.64	2.97	0.74	0.74
1.18	0.57	10.92	8.45	92.20	2.98	0.73	0.73
1.20	0.58	11.17	8.57	95.75	2.99	0.74	0.74
1.22	0.62	11.90	8.26	98.35	2.97	0.74	0.74
1.24	0.66	12.62	7.89	99.57	2.95	0.75	0.75
1.26	0.68	13.04	7.87	102.61	2.94	0.75	0.75
1.28	0.67	12.93	8.35	107.92	2.97	0.76	0.76
1.30	0.67	12.76	8.87	113.19	3.01	2.49	4.10
1.32	0.66	12.55	9.43	118.31	3.04	2.63	3.98
1.34	0.64	12.25	10.07	123.33	3.07	2.82	3.84
1.36	0.62	11.83	10.85	128.28	3.11	2.99	3.66
1.38	0.61	11.55	11.39	131.51	3.14	3.11	3.53
1.40	0.61	11.65	11.28	131.49	3.13	3.11	3.52
1.42	0.63	12.07	10.76	129.93	3.11	2.91	3.61
1.44	0.66	12.64	10.12	127.92	3.07	2.87	3.73
1.46	0.70	13.38	9.49	126.89	3.04	2.85	3.90
1.48	0.74	14.19	8.84	125.42	3.00	2.81	4.09
1.50	0.79	15.23	8.15	124.10	2.96	0.79	0.79
1.52	0.86	16.58	7.45	123.47	2.92	0.79	0.79
1.54	0.94	18.05	6.81	122.98	2.87	0.79	0.79
1.56	1.05	20.33	5.92	120.39	2.81	0.78	0.78
1.58	1.15	22.28	5.27	117.45	2.75	0.78	0.78
1.60	1.24	23.93	4.86	116.29	2.71	0.78	0.78
1.62	1.25	24.23	4.91	118.84	2.72	0.78	0.78
1.64	1.26	24.40	4.99	121.73	2.73	0.79	0.79
1.66	1.28	24.79	4.97	123.31	2.72	0.79	0.79
1.68	1.32	25.48	4.84	123.26	2.71	0.79	0.79
1.70	1.34	26.00	4.74	123.23	2.70	0.79	0.79
1.72	1.36	26.42	4.65	122.74	2.69	0.94	0.94
1.74	1.38	26.73	4.56	121.83	2.69	0.93	0.93
1.76	1.39	26.92	4.47	120.20	2.68	0.92	0.92
1.78	1.37	26.51	4.48	118.76	2.68	0.92	0.92
1.80	1.33	25.64	4.61	118.20	2.69	0.93	0.93
1.82	1.29	24.91	4.72	117.72	2.70	0.78	0.78
1.84	1.27	24.45	4.50	110.08	2.68	0.91	0.91

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
1.86	1.32	25.55	4.25	108.70	2.65	0.88	0.88
1.88	1.33	25.65	4.23	108.42	2.65	0.88	0.88
1.90	1.32	25.53	4.50	114.77	2.68	0.92	0.92
1.92	1.25	24.08	4.72	113.61	2.70	0.77	0.77
1.94	1.21	23.35	4.74	110.70	2.70	0.77	0.77
1.96	1.18	22.74	4.79	108.94	2.71	0.76	0.76
1.98	1.15	22.17	4.92	109.02	2.72	0.76	0.76
2.00	1.13	21.62	5.03	108.86	2.73	0.76	0.76
2.02	1.11	21.31	5.00	106.57	2.73	0.76	0.76
2.04	1.12	21.40	4.72	101.12	2.70	0.75	0.75
2.06	1.14	21.88	4.36	95.43	2.67	0.86	0.86
2.08	1.17	22.52	4.01	90.32	2.63	0.82	0.82
2.10	1.20	23.07	3.75	86.56	2.60	0.79	0.79
2.12	1.22	23.49	3.61	84.73	2.58	0.77	0.77
2.14	1.24	23.77	3.57	84.84	2.58	0.77	0.77
2.16	1.23	23.56	3.76	88.67	2.60	0.80	0.80
2.18	1.19	22.81	4.08	93.17	2.64	0.84	0.84
2.20	1.14	21.77	4.51	98.25	2.68	0.88	0.88
2.22	1.09	20.82	4.84	100.72	2.71	0.75	0.75
2.24	1.06	20.33	5.02	102.04	2.73	0.75	0.75
2.26	1.05	20.05	5.08	101.96	2.73	0.75	0.75
2.28	1.05	20.09	4.94	99.17	2.72	0.75	0.75
2.30	1.05	20.07	4.79	96.21	2.71	0.74	0.74
2.32	1.06	20.29	4.53	91.98	2.68	0.87	0.87
2.34	1.12	21.36	4.10	87.62	2.64	0.82	0.82
2.36	1.19	22.84	3.62	82.61	2.58	0.77	0.77
2.38	1.27	24.24	3.33	80.74	2.55	0.74	0.74
2.40	1.29	24.79	3.33	82.51	2.55	0.74	0.74
2.42	1.30	25.00	3.38	84.60	2.56	0.75	0.75
2.44	1.31	25.03	3.35	83.86	2.55	0.74	0.74
2.46	1.30	24.89	3.28	81.66	2.54	0.73	0.73
2.48	1.29	24.72	3.23	79.96	2.54	0.72	0.72
2.50	1.27	24.30	3.19	77.48	2.53	0.71	0.71
2.52	1.25	23.97	3.10	74.25	2.52	0.39	0.70
2.54	1.24	23.66	2.97	70.29	2.50	0.26	0.68
2.56	1.23	23.51	2.90	68.20	2.49	0.22	0.68
2.58	1.22	23.31	2.88	67.24	2.49	0.20	0.68
2.60	1.21	23.00	2.93	67.50	2.49	0.21	0.68
2.62	1.19	22.75	2.97	67.54	2.50	0.21	0.68
2.64	1.18	22.51	3.00	67.57	2.50	0.16	0.67
2.66	1.17	22.30	3.01	67.09	2.50	0.16	0.67
2.68	1.17	22.22	3.02	67.09	2.51	0.17	0.67
2.70	1.17	22.19	3.02	66.97	2.51	0.16	0.67
2.72	1.17	22.15	3.00	66.51	2.50	0.15	0.67
2.74	1.15	21.90	3.03	66.31	2.51	0.16	0.67
2.76	1.14	21.61	3.04	65.73	2.51	0.16	0.67
2.78	1.14	21.62	3.00	64.87	2.50	0.13	0.66
2.80	1.17	22.27	2.86	63.73	2.48	0.15	0.67

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
2.82	1.23	23.47	2.65	62.19	2.45	0.13	0.66
2.84	1.30	24.85	2.48	61.76	2.42	0.13	0.66
2.86	1.36	25.91	2.43	62.93	2.41	0.14	0.66
2.88	1.40	26.71	2.45	65.41	2.41	0.17	0.67
2.90	1.42	27.02	2.52	68.05	2.43	0.22	0.68
2.92	1.41	26.85	2.60	69.76	2.44	0.25	0.68
2.94	1.37	26.18	2.76	72.19	2.47	0.31	0.69
2.96	1.35	25.66	2.83	72.67	2.48	0.32	0.69
2.98	1.35	25.67	2.79	71.58	2.47	0.29	0.69
3.00	1.36	25.94	2.68	69.42	2.45	0.24	0.68
3.02	1.37	26.00	2.63	68.49	2.45	0.23	0.68
3.04	1.36	25.86	2.66	68.70	2.45	0.23	0.68
3.06	1.49	28.53	2.14	61.02	2.35	0.12	0.66
3.08	1.62	30.95	1.91	59.04	2.30	0.10	0.65
3.10	1.71	32.75	1.78	58.20	2.26	0.10	0.65
3.12	1.63	31.10	2.14	66.54	2.35	0.19	0.67
3.14	1.53	29.25	2.51	73.49	2.43	0.34	0.69
3.16	1.46	27.82	2.85	79.27	2.48	0.55	0.71
3.18	1.45	27.61	2.83	78.23	2.48	0.50	0.70
3.20	1.46	27.72	2.70	74.83	2.46	0.38	0.70
3.22	1.48	28.18	2.50	70.40	2.42	0.26	0.68
3.24	1.50	28.51	2.40	68.38	2.40	0.22	0.68
3.26	1.53	29.22	2.31	67.38	2.39	0.21	0.68
3.28	1.54	29.34	2.35	69.05	2.40	0.24	0.68
3.30	1.48	28.17	2.54	71.62	2.43	0.29	0.69
3.32	1.38	26.14	2.98	77.86	2.50	0.49	0.70
3.34	1.30	24.64	3.14	77.33	2.52	0.60	0.71
3.36	1.28	24.29	3.02	73.42	2.51	0.28	0.69
3.38	1.32	24.99	2.64	65.91	2.45	0.18	0.67
3.40	1.33	25.26	2.60	65.72	2.44	0.18	0.67
3.42	1.33	25.20	2.70	68.03	2.46	0.22	0.68
3.44	1.33	25.21	2.77	69.94	2.47	0.25	0.68
3.46	1.39	26.31	2.59	68.20	2.44	0.22	0.68
3.48	1.49	28.40	2.33	66.25	2.39	0.19	0.67
3.50	1.66	31.63	2.02	64.02	2.33	0.16	0.67
3.52	1.99	38.24	1.70	64.85	2.23	0.17	0.67
3.54	2.17	41.65	1.60	66.74	2.20	0.19	0.67
3.56	2.13	40.85	1.74	71.08	2.25	0.28	0.69
3.58	1.78	33.98	2.31	78.38	2.39	0.51	0.70
3.60	1.48	28.14	3.20	89.90	2.53	0.74	0.74
3.62	1.37	25.88	3.49	90.37	2.57	0.77	0.77
3.64	1.50	28.50	2.87	81.91	2.48	0.68	0.71
3.66	1.96	37.52	1.83	68.54	2.27	0.23	0.68
3.68	2.60	50.13	1.41	70.83	2.10	0.27	0.69
3.70	3.17	61.34	1.30	79.61	1.99	0.57	0.71
3.72	3.48	67.42	1.28	86.51	1.97	0.72	0.72
3.74	3.45	66.98	1.30	87.32	2.00	0.72	0.72
3.76	3.20	61.93	1.37	84.67	2.06	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
3.78	2.82	54.54	1.45	79.05	2.12	0.54	0.70
3.80	2.49	47.93	1.52	73.04	2.16	0.33	0.69
3.82	2.27	43.58	1.58	68.69	2.18	0.23	0.68
3.84	2.12	40.66	1.64	66.80	2.21	0.20	0.68
3.86	2.03	38.94	1.71	66.41	2.23	0.19	0.67
3.88	2.08	39.85	1.61	64.19	2.20	0.16	0.67
3.90	2.25	43.22	1.51	65.15	2.15	0.17	0.67
3.92	2.41	46.26	1.49	69.01	2.14	0.23	0.68
3.94	2.42	46.43	1.55	71.99	2.17	0.30	0.69
3.96	2.35	45.13	1.64	74.09	2.21	0.36	0.69
3.98	2.41	46.22	1.60	74.09	2.20	0.36	0.69
4.00	2.51	48.30	1.52	73.25	2.16	0.33	0.69
4.02	2.54	48.77	1.46	71.32	2.13	0.28	0.69
4.04	2.36	45.35	1.52	68.88	2.16	0.23	0.68
4.06	2.13	40.69	1.69	68.88	2.23	0.23	0.68
4.08	2.04	38.94	1.77	69.06	2.26	0.24	0.68
4.10	2.18	41.68	1.61	67.03	2.20	0.20	0.68
4.12	2.40	46.09	1.42	65.51	2.10	0.18	0.67
4.14	2.56	49.13	1.38	67.81	2.07	0.21	0.68
4.16	2.59	49.86	1.39	69.21	2.08	0.24	0.68
4.18	2.65	50.89	1.40	71.05	2.08	0.28	0.69
4.20	2.85	54.95	1.34	73.39	2.03	0.34	0.69
4.22	3.09	59.69	1.29	77.02	1.98	0.46	0.70
4.24	3.38	65.39	1.25	82.00	1.93	0.69	0.71
4.26	3.50	67.72	1.26	85.11	1.93	0.72	0.72
4.28	3.37	65.09	1.28	83.32	1.96	0.71	0.71
4.30	3.19	61.57	1.31	80.94	2.01	0.63	0.71
4.32	3.03	58.51	1.35	78.98	2.05	0.54	0.70
4.34	3.17	61.11	1.35	82.20	2.04	0.70	0.71
4.36	3.39	65.46	1.33	87.04	2.03	0.72	0.72
4.38	3.62	70.15	1.30	90.86	1.99	0.73	0.73
4.40	3.81	73.87	1.28	94.66	1.97	0.74	0.74
4.42	3.88	75.26	1.29	97.24	1.98	0.74	0.74
4.44	3.93	76.08	1.32	100.31	2.01	0.75	0.75
4.46	3.94	76.28	1.34	102.17	2.04	0.75	0.75
4.48	3.82	74.06	1.35	100.01	2.05	0.75	0.75
4.50	3.63	70.19	1.37	96.20	2.06	0.74	0.74
4.52	3.35	64.74	1.40	90.61	2.09	0.73	0.73
4.54	3.25	62.73	1.44	90.07	2.11	0.73	0.73
4.56	3.34	64.46	1.44	92.86	2.11	0.73	0.73
4.58	3.54	68.41	1.42	96.95	2.10	0.74	0.74
4.60	3.59	69.41	1.42	98.32	2.10	0.74	0.74
4.62	3.53	68.15	1.44	97.83	2.11	0.74	0.74
4.64	3.46	66.76	1.45	96.86	2.12	0.74	0.74
4.66	3.52	67.98	1.40	94.84	2.08	0.74	0.74
4.68	3.63	69.10	1.33	91.63	2.02	0.73	0.73
4.70	3.74	69.65	1.28	89.40	1.97	0.73	0.73
4.72	3.87	70.93	1.26	89.34	1.93	0.73	0.73

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
4.74	3.80	69.56	1.26	87.92	1.94	0.72	0.72
4.76	3.42	63.60	1.30	82.96	2.00	0.71	0.71
4.78	2.80	53.46	1.40	74.71	2.08	0.38	0.69
4.80	2.21	42.08	1.72	72.47	2.24	0.31	0.69
4.82	1.93	36.64	2.16	78.96	2.36	0.54	0.70
4.84	2.08	39.55	2.09	82.58	2.34	0.71	0.71
4.86	2.40	45.76	1.70	77.57	2.23	0.48	0.70
4.88	2.56	48.93	1.57	76.94	2.18	0.45	0.70
4.90	2.37	45.21	1.77	80.02	2.26	0.58	0.71
4.92	2.03	38.47	2.34	89.91	2.39	0.73	0.73
4.94	1.82	34.35	2.86	98.18	2.48	0.74	0.74
4.96	1.88	35.56	2.61	92.78	2.44	0.73	0.73
4.98	2.13	40.37	2.16	87.08	2.36	0.72	0.72
5.00	2.29	43.61	1.91	83.43	2.30	0.71	0.71
5.02	2.24	42.55	2.05	87.33	2.33	0.72	0.72
5.04	2.10	39.86	2.34	93.31	2.39	0.74	0.74
5.06	2.14	40.53	2.38	96.54	2.40	0.74	0.74
5.08	2.36	44.92	2.11	94.65	2.34	0.74	0.74
5.10	2.77	53.09	1.77	93.79	2.25	0.74	0.74
5.12	3.19	60.02	1.52	91.11	2.16	0.73	0.73
5.14	3.50	64.42	1.42	91.38	2.10	0.73	0.73
5.16	3.52	64.21	1.39	88.94	2.08	0.73	0.73
5.18	3.14	57.67	1.44	83.22	2.12	0.71	0.71
5.20	2.75	50.89	1.52	77.32	2.16	0.47	0.70
5.22	2.47	46.00	1.59	73.31	2.19	0.33	0.69
5.24	2.42	45.55	1.67	76.17	2.22	0.42	0.70
5.26	2.33	44.23	1.82	80.41	2.27	0.60	0.71
5.28	2.24	42.41	2.01	85.12	2.32	0.72	0.72
5.30	2.25	42.62	2.01	85.84	2.32	0.72	0.72
5.32	2.22	42.11	2.03	85.49	2.33	0.72	0.72
5.34	2.14	40.56	2.11	85.67	2.35	0.72	0.72
5.36	2.15	40.77	2.05	83.56	2.33	0.71	0.71
5.38	2.40	45.11	1.86	83.86	2.28	0.72	0.72
5.40	2.89	52.50	1.54	81.04	2.17	0.64	0.71
5.42	3.20	56.92	1.44	81.91	2.11	0.68	0.71
5.44	3.23	56.98	1.41	80.07	2.09	0.59	0.71
5.46	3.00	53.26	1.46	77.84	2.13	0.49	0.70
5.48	2.82	50.45	1.52	76.82	2.16	0.45	0.70
5.50	2.88	51.52	1.54	79.19	2.17	0.55	0.71
5.52	2.94	52.13	1.51	78.47	2.15	0.51	0.70
5.54	2.91	51.70	1.53	79.20	2.16	0.55	0.71
5.56	2.63	47.18	1.64	77.16	2.21	0.46	0.70
5.58	2.30	42.04	1.89	79.37	2.29	0.55	0.71
5.60	1.79	33.61	2.51	84.24	2.42	0.72	0.72
5.62	1.34	24.63	4.02	99.07	2.63	0.84	0.84
5.64	0.99	17.65	6.18	109.04	2.83	0.76	0.76
5.66	0.90	15.91	6.49	103.28	2.85	0.75	0.75
5.68	0.90	15.94	5.52	88.03	2.77	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
5.70	0.95	16.89	4.80	81.16	2.71	0.64	0.71
5.72	1.13	20.37	3.94	80.32	2.62	0.79	0.79
5.74	1.32	24.25	3.33	80.66	2.55	0.74	0.74
5.76	1.59	29.48	2.66	78.46	2.45	0.51	0.70
5.78	1.91	34.72	2.19	76.10	2.36	0.42	0.70
5.80	2.32	41.21	1.85	76.09	2.28	0.42	0.70
5.82	2.62	45.84	1.70	77.72	2.23	0.48	0.70
5.84	2.63	46.19	1.73	79.84	2.24	0.58	0.71
5.86	2.41	42.96	1.96	84.23	2.31	0.72	0.72
5.88	2.12	38.59	2.39	92.19	2.40	0.73	0.73
5.90	2.12	38.69	2.46	95.30	2.42	0.74	0.74
5.92	2.54	45.14	2.01	90.82	2.32	0.73	0.73
5.94	3.07	53.17	1.69	89.87	2.23	0.73	0.73
5.96	3.35	57.58	1.61	92.78	2.20	0.73	0.73
5.98	3.32	57.04	1.63	93.22	2.21	0.74	0.74
6.00	3.36	57.38	1.61	92.37	2.20	0.73	0.73
6.02	3.60	60.79	1.54	93.55	2.17	0.74	0.74
6.04	3.94	65.73	1.45	95.61	2.12	0.74	0.74
6.06	4.25	70.10	1.40	98.26	2.09	0.74	0.74
6.08	4.56	74.04	1.35	99.59	2.04	0.75	0.75
6.10	5.03	80.25	1.29	103.75	1.98	0.76	0.76
6.12	5.54	86.93	1.26	109.19	1.93	0.76	0.76
6.14	5.94	92.16	1.23	113.71	1.90	0.77	0.77
6.16	6.13	94.32	1.22	115.18	1.88	0.77	0.77
6.18	6.35	96.83	1.20	116.14	1.85	0.78	0.78
6.20	6.65	100.20	1.17	117.00	1.81	0.78	0.78
6.22	7.07	105.42	1.13	119.29	1.78	0.78	0.78
6.24	7.53	112.04	1.12	126.01	1.78	0.79	0.79
6.26	8.08	119.22	1.09	129.86	1.75	0.80	0.80
6.28	8.74	127.31	1.01	128.89	1.71	0.80	0.80
6.30	9.78	138.70	1.00	138.70	1.62	0.81	0.81
6.32	10.50	146.20	1.00	146.20	1.56	0.82	0.82
6.34	10.66	147.40	1.00	147.40	1.54	0.82	0.82
6.36	9.85	136.90	1.00	136.90	1.57	0.81	0.81
6.38	8.75	122.63	1.00	122.63	1.61	0.79	0.79
6.40	7.49	106.66	1.00	106.66	1.68	0.76	0.76
6.42	5.77	85.42	1.19	101.53	1.84	0.75	0.75
6.44	4.22	65.83	1.36	89.58	2.06	0.73	0.73
6.46	3.13	51.01	1.77	90.43	2.26	0.73	0.73
6.48	2.67	45.14	2.45	110.70	2.41	0.77	0.77
6.50	2.35	40.84	3.26	133.20	2.54	0.83	0.83
6.52	1.96	34.98	4.59	160.46	2.69	1.00	1.00
6.54	1.65	29.68	5.61	166.45	2.78	0.85	0.85
6.56	1.41	25.48	6.47	164.79	2.85	0.85	0.85
6.58	1.24	22.38	7.12	159.45	2.89	0.84	0.84
6.60	1.20	21.49	6.85	147.14	2.87	0.82	0.82
6.62	1.18	20.82	6.29	130.97	2.83	0.80	0.80
6.64	1.17	20.24	5.59	113.23	2.78	0.77	0.77

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
6.66	1.19	20.19	5.04	101.74	2.73	0.75	0.75
6.68	1.23	20.67	4.49	92.86	2.68	0.87	0.87
6.70	1.27	21.17	4.18	88.44	2.65	0.83	0.83
6.72	1.41	23.65	4.17	98.51	2.65	0.85	0.85
6.74	1.48	24.97	4.42	110.48	2.67	0.90	0.90
6.76	1.50	25.53	4.86	124.03	2.71	0.79	0.79
6.78	1.37	23.37	5.42	126.64	2.76	0.79	0.79
6.80	1.28	21.87	5.92	129.48	2.81	0.80	0.80
6.82	1.23	20.96	6.09	127.59	2.82	0.79	0.79
6.84	1.20	20.30	6.19	125.71	2.83	0.79	0.79
6.86	1.17	19.77	6.16	121.85	2.82	0.79	0.79
6.88	1.15	19.30	5.90	113.99	2.80	0.77	0.77
6.90	1.15	18.94	5.55	105.15	2.78	0.76	0.76
6.92	1.14	18.66	5.19	96.79	2.74	0.74	0.74
6.94	1.15	18.55	4.84	89.82	2.71	0.73	0.73
6.96	1.15	18.54	4.59	85.14	2.69	0.86	0.86
6.98	1.19	18.97	4.44	84.27	2.67	0.85	0.85
7.00	1.30	20.76	3.98	82.64	2.63	0.80	0.80
7.02	1.57	24.71	3.23	79.77	2.53	0.72	0.72
7.04	1.94	30.30	2.54	77.07	2.43	0.46	0.70
7.06	2.19	34.13	2.42	82.59	2.41	0.71	0.71
7.08	2.22	34.70	2.58	89.39	2.44	0.73	0.73
7.10	1.99	31.37	2.99	93.65	2.50	0.73	0.73
7.12	1.70	27.07	3.65	98.74	2.59	0.81	0.81
7.14	1.45	23.12	4.42	102.17	2.67	0.88	0.88
7.16	1.30	20.72	4.93	102.24	2.72	0.75	0.75
7.18	1.25	19.82	4.80	95.12	2.71	0.74	0.74
7.20	1.26	19.77	4.50	88.90	2.68	0.86	0.86
7.22	1.28	20.09	4.44	89.27	2.67	0.86	0.86
7.24	1.36	21.16	4.20	88.79	2.65	0.84	0.84
7.26	1.47	22.76	3.89	88.49	2.62	0.81	0.81
7.28	1.49	23.12	3.95	91.36	2.62	0.82	0.82
7.30	1.38	21.52	4.47	96.19	2.68	0.88	0.88
7.32	1.23	19.04	4.95	94.17	2.72	0.74	0.74
7.34	1.16	17.81	4.80	85.55	2.71	0.72	0.72
7.36	1.17	17.77	4.30	76.33	2.66	0.81	0.81
7.38	1.14	17.31	4.54	78.68	2.68	0.84	0.84
7.40	1.09	16.59	5.02	83.31	2.73	0.71	0.71
7.42	1.05	15.84	5.34	84.60	2.76	0.72	0.72
7.44	1.06	15.96	5.17	82.44	2.74	0.71	0.71
7.46	1.08	16.22	4.91	79.67	2.72	0.57	0.71
7.48	1.10	16.48	4.86	80.17	2.71	0.59	0.71
7.50	1.09	16.29	4.98	81.08	2.73	0.64	0.71
7.52	1.07	16.08	5.12	82.27	2.74	0.71	0.71
7.54	1.07	16.03	5.08	81.42	2.73	0.66	0.71
7.56	1.12	16.69	4.68	78.04	2.70	0.85	0.85
7.58	1.24	18.25	4.04	73.82	2.63	0.79	0.79
7.60	1.40	20.66	3.50	72.30	2.57	0.73	0.73

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.62	1.51	22.19	3.38	74.98	2.55	0.73	0.73
7.64	1.46	21.56	3.66	78.82	2.59	0.76	0.76
7.66	1.32	19.49	4.22	82.34	2.65	0.82	0.82
7.68	1.21	17.90	4.64	83.09	2.69	0.86	0.86
7.70	1.20	17.67	4.54	80.28	2.68	0.84	0.84
7.72	1.27	18.56	4.12	76.45	2.64	0.80	0.80
7.74	1.33	19.40	3.86	74.92	2.61	0.77	0.77
7.76	1.34	19.59	4.04	79.21	2.63	0.80	0.80
7.78	1.26	18.38	4.38	80.51	2.67	0.83	0.83
7.80	1.18	17.04	4.63	78.94	2.69	0.85	0.85
7.82	1.12	16.07	4.59	73.69	2.69	0.83	0.83
7.84	1.13	16.13	4.47	72.04	2.68	0.82	0.82
7.86	1.20	17.09	4.13	70.56	2.64	0.78	0.78
7.88	1.30	18.57	3.72	69.08	2.60	0.74	0.74
7.90	1.39	19.89	3.65	72.56	2.59	0.75	0.75
7.92	1.41	20.19	3.89	78.65	2.62	0.78	0.78
7.94	1.40	20.08	4.05	81.26	2.63	0.80	0.80
7.96	1.30	18.61	4.49	83.63	2.68	0.85	0.85
7.98	1.16	16.49	5.05	83.31	2.73	0.71	0.71
8.00	0.99	13.96	6.07	84.79	2.82	0.72	0.72
8.02	0.92	12.91	6.18	79.79	2.83	0.57	0.71
8.04	0.93	12.97	5.75	74.57	2.79	0.37	0.69
8.06	0.96	13.31	5.46	72.70	2.77	0.32	0.69
8.08	0.96	13.35	5.52	73.75	2.77	0.35	0.69
8.10	0.97	13.38	5.57	74.55	2.78	0.37	0.69
8.12	1.01	14.00	5.20	72.84	2.75	0.32	0.69
8.14	1.18	16.26	4.20	68.28	2.65	0.78	0.78
8.16	1.31	18.11	3.56	64.50	2.58	0.72	0.72
8.18	1.41	19.43	3.45	67.04	2.56	0.71	0.71
8.20	1.39	19.36	3.83	74.19	2.61	0.77	0.77
8.22	1.38	19.28	4.10	78.98	2.64	0.80	0.80
8.24	1.33	18.53	4.39	81.28	2.67	0.83	0.83
8.26	1.20	16.64	4.89	81.33	2.72	0.65	0.71
8.28	1.10	15.10	5.46	82.53	2.77	0.71	0.71
8.30	1.07	14.63	5.60	81.97	2.78	0.69	0.71
8.32	1.11	15.23	5.34	81.43	2.76	0.66	0.71
8.34	1.15	15.83	5.23	82.84	2.75	0.71	0.71
8.36	1.29	17.63	4.47	78.84	2.68	0.83	0.83
8.38	1.35	18.37	4.08	74.96	2.64	0.79	0.79
8.40	1.62	21.93	3.09	67.84	2.52	0.23	0.68
8.42	1.77	23.91	2.76	65.97	2.47	0.18	0.67
8.44	2.34	31.40	2.04	63.91	2.33	0.15	0.67
8.46	2.66	35.72	1.89	67.46	2.29	0.21	0.68
8.48	3.19	42.72	1.73	73.89	2.24	0.35	0.69
8.50	3.73	50.09	1.67	83.64	2.22	0.72	0.72
8.52	4.32	57.95	1.63	94.66	2.21	0.74	0.74
8.54	4.56	61.29	1.66	101.48	2.22	0.75	0.75
8.56	4.19	56.85	1.92	109.04	2.30	0.76	0.76

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.58	3.56	48.88	2.47	120.87	2.42	0.78	0.78
8.60	2.79	39.15	3.82	149.54	2.61	0.91	0.91
8.62	2.22	31.60	5.69	179.83	2.79	0.86	0.86
8.64	1.90	27.17	7.40	201.05	2.91	0.89	0.89
8.66	1.89	27.07	7.51	203.27	2.92	0.89	0.89
8.68	1.99	28.38	6.98	197.95	2.88	0.88	0.88
8.70	2.15	30.36	6.30	191.41	2.84	0.88	0.88
8.72	2.25	31.77	5.99	190.44	2.81	0.88	0.88
8.74	2.28	32.06	5.94	190.47	2.81	0.88	0.88
8.76	2.23	31.32	6.07	190.03	2.82	0.88	0.88
8.78	2.20	30.79	6.20	190.88	2.83	0.88	0.88
8.80	2.29	32.01	5.99	191.67	2.81	0.88	0.88
8.82	2.55	35.40	5.38	190.46	2.76	0.88	0.88
8.84	2.78	38.51	4.87	187.33	2.71	0.87	0.87
8.86	2.88	39.67	4.70	186.33	2.70	1.05	1.05
8.88	2.86	39.37	4.81	189.56	2.71	0.88	0.88
8.90	2.90	39.85	4.84	192.77	2.71	0.88	0.88
8.92	3.32	45.35	4.15	188.06	2.64	1.00	1.00
8.94	4.11	55.47	3.19	177.00	2.53	0.88	0.88
8.96	4.83	64.59	2.64	170.37	2.45	0.85	0.85
8.98	5.36	71.24	2.37	169.06	2.40	0.85	0.85
9.00	5.79	76.71	2.29	176.01	2.38	0.86	0.86
9.02	6.36	83.84	2.13	178.23	2.35	0.86	0.86
9.04	6.82	89.43	2.01	180.12	2.32	0.86	0.86
9.06	6.58	86.28	2.12	183.02	2.35	0.87	0.87
9.08	5.98	78.93	2.45	193.71	2.42	0.88	0.88
9.10	5.22	69.45	3.04	211.03	2.51	0.89	0.89
9.12	4.77	63.65	3.49	222.16	2.57	0.96	0.96
9.14	4.51	60.11	3.77	226.72	2.60	1.00	1.00
9.16	4.61	61.13	3.54	216.57	2.58	0.96	0.96
9.18	5.05	66.38	3.04	201.80	2.51	0.88	0.88
9.20	5.45	71.09	2.66	189.42	2.45	0.88	0.88
9.22	5.30	69.00	2.77	191.29	2.47	0.88	0.88
9.24	4.79	62.60	3.17	198.34	2.53	0.90	0.90
9.26	4.39	57.40	3.55	203.53	2.58	0.95	0.95
9.28	4.37	56.93	3.48	198.10	2.57	0.93	0.93
9.30	4.66	60.21	3.09	185.93	2.52	0.87	0.87
9.32	5.24	67.30	2.64	177.54	2.45	0.86	0.86
9.34	6.58	83.31	2.00	166.55	2.32	0.85	0.85
9.36	8.09	100.98	1.61	162.72	2.20	0.84	0.84
9.38	10.13	124.39	1.36	169.53	2.06	0.85	0.85
9.40	23.81	275.25	1.00	275.25	1.55	0.96	0.96
9.42	37.13	415.53	1.00	415.53	1.29	1.06	1.06

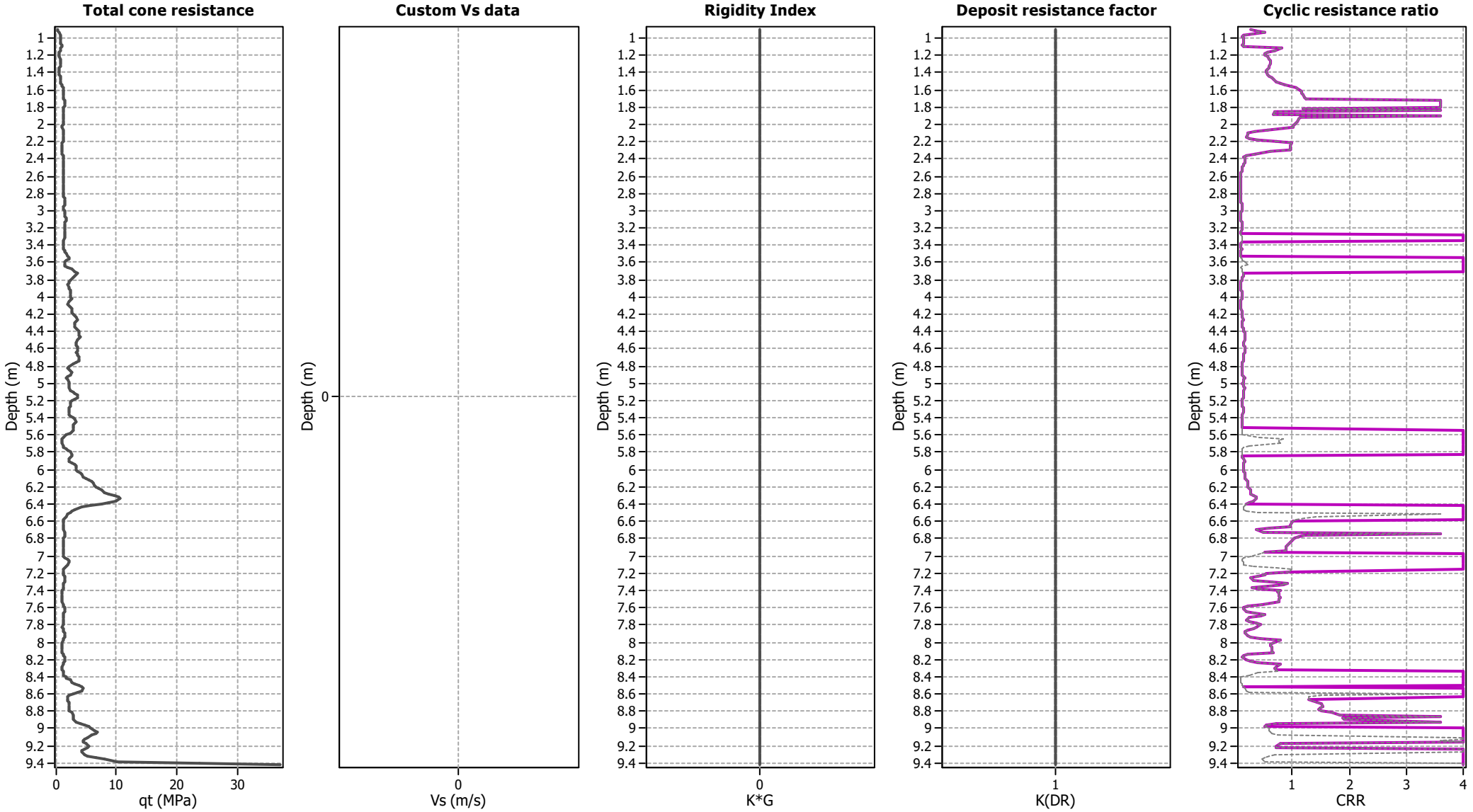
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$

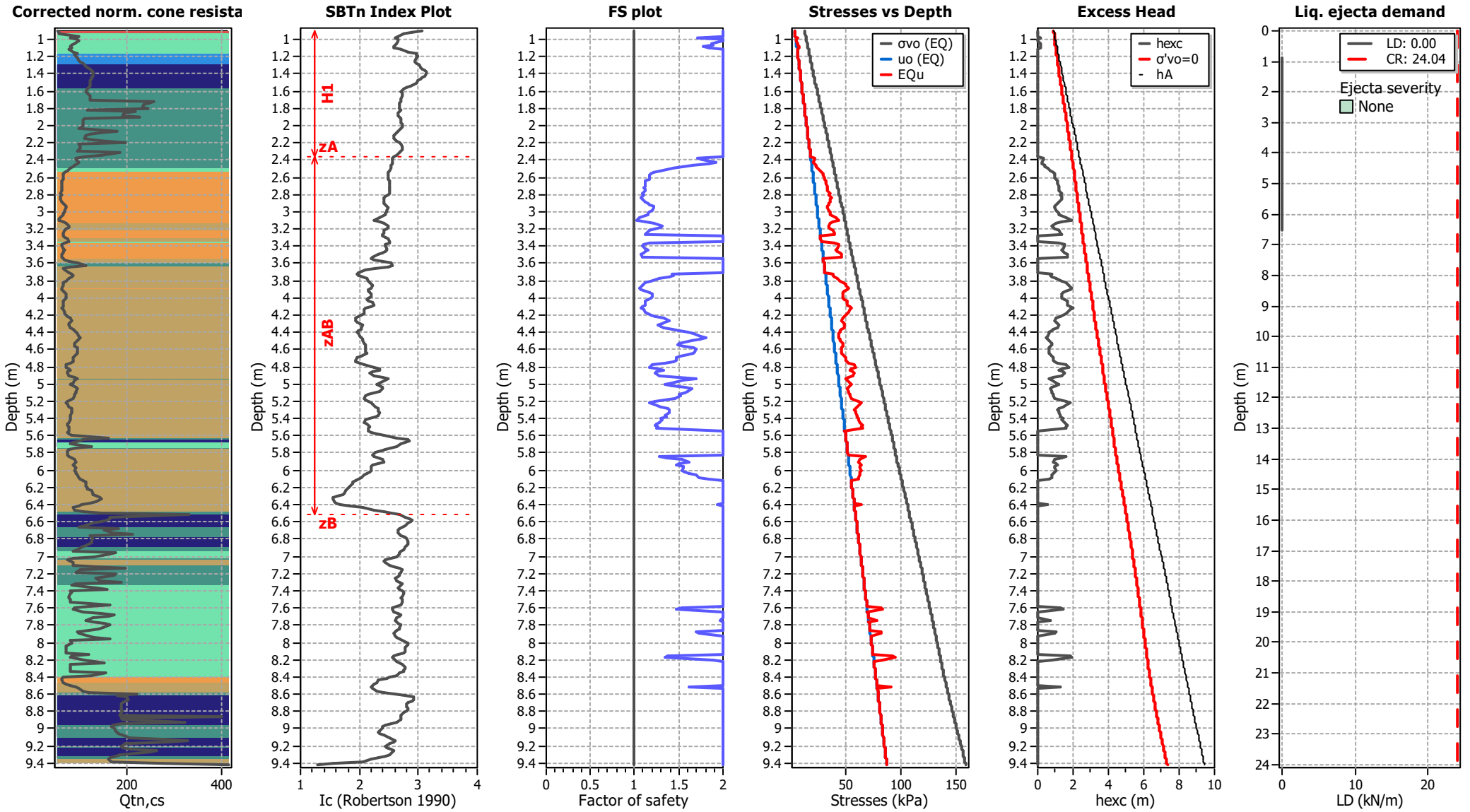
Abbreviations

q_t:	Total cone resistance
K_c:	Cone resistance correction factor due to fines
$Q_{tn,cs}$:	Adjusted and corrected cone resistance due to fines
I_c:	Soil behavior type index
$S_{u(liq)}/\sigma'_v$:	Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$:	Calculated peak undrained strength ratio

Aging Calculation Estimation



Ejecta Severity Estimation



Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

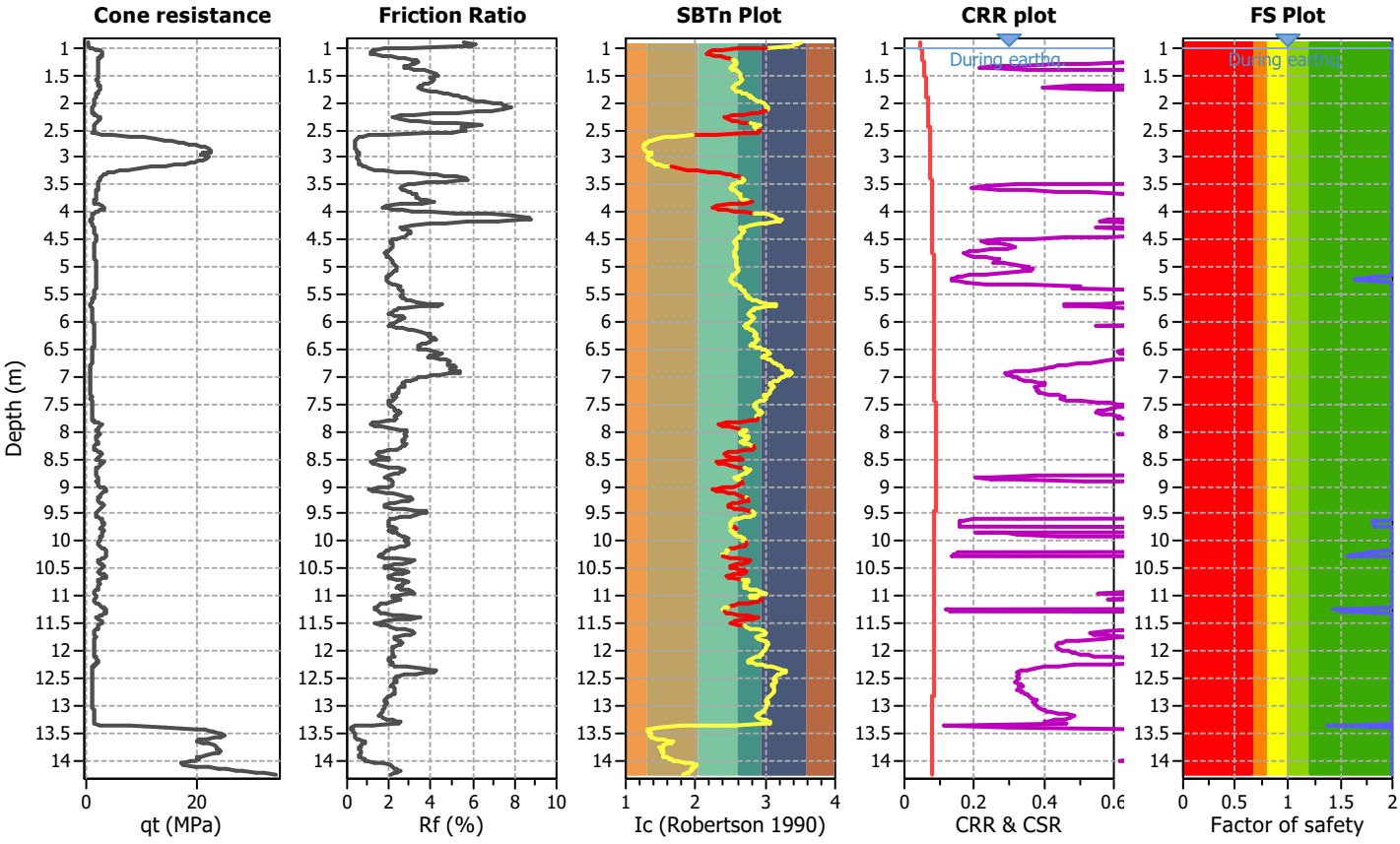
LIQUEFACTION ANALYSIS REPORT

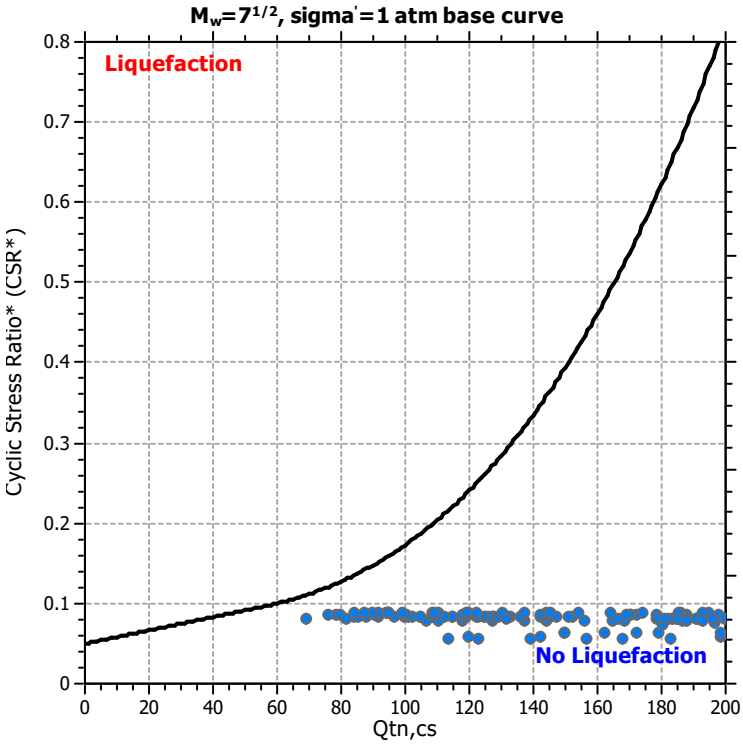
Project title : CWLP Free Face Liquefaction Analysis **Location : East Lake Shore Drive, Springfield, Illinois**

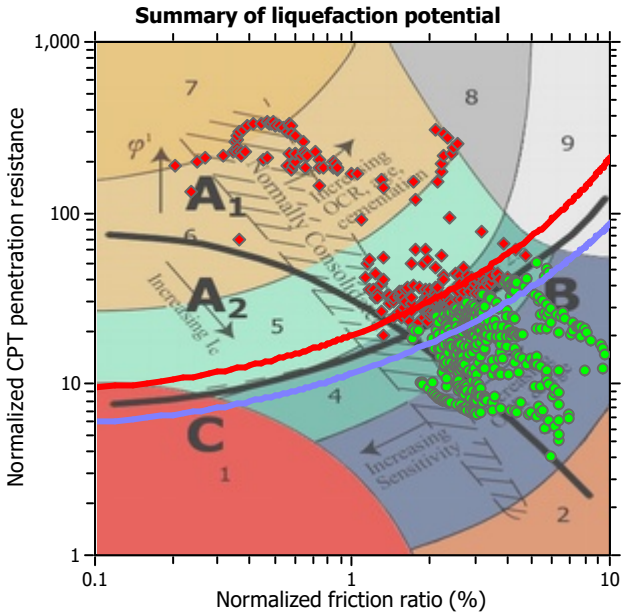
CPT file : CWLP CPT-4L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.10	Unit weight calculation:	Based on SBT	K_σ applied:	No		

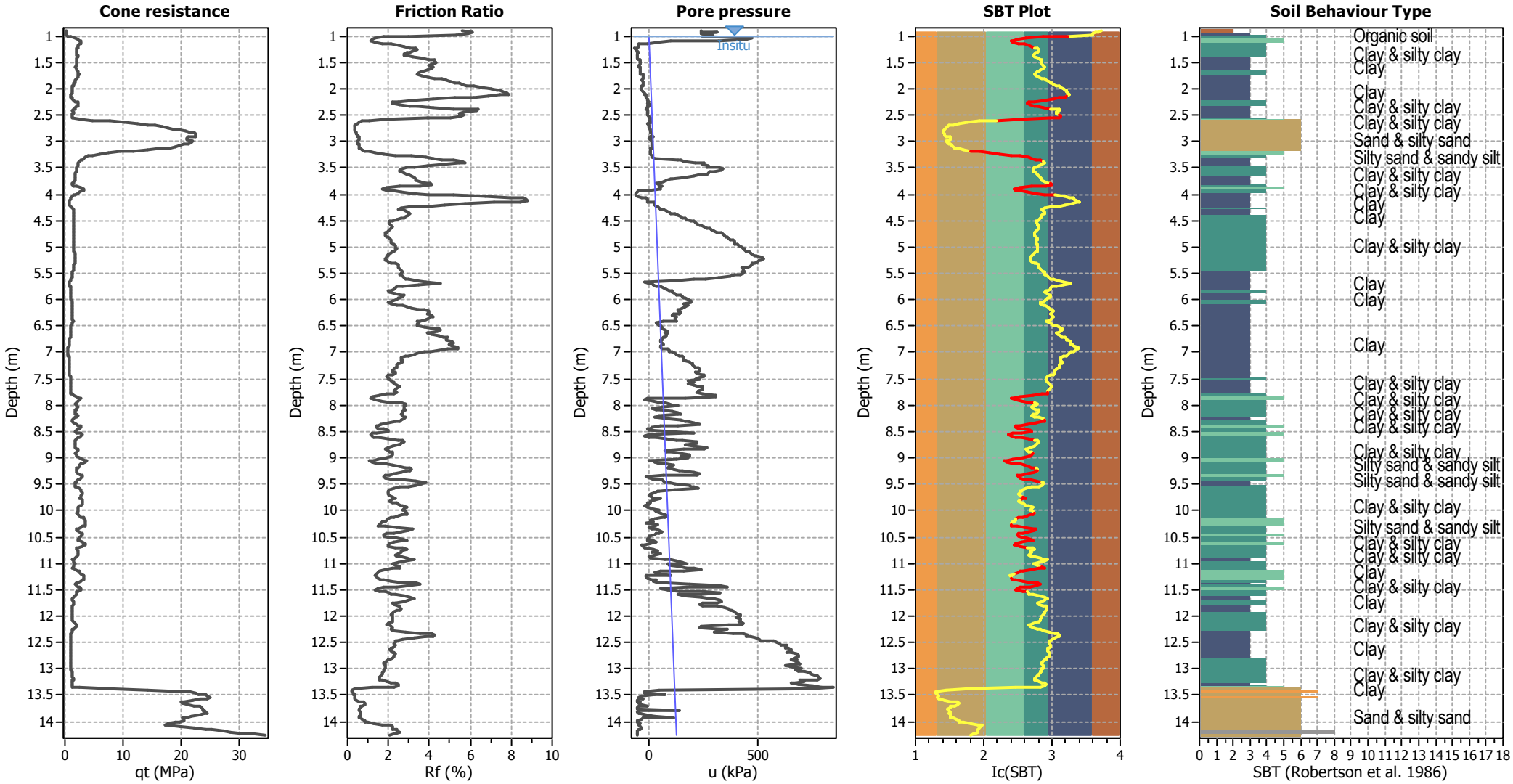






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



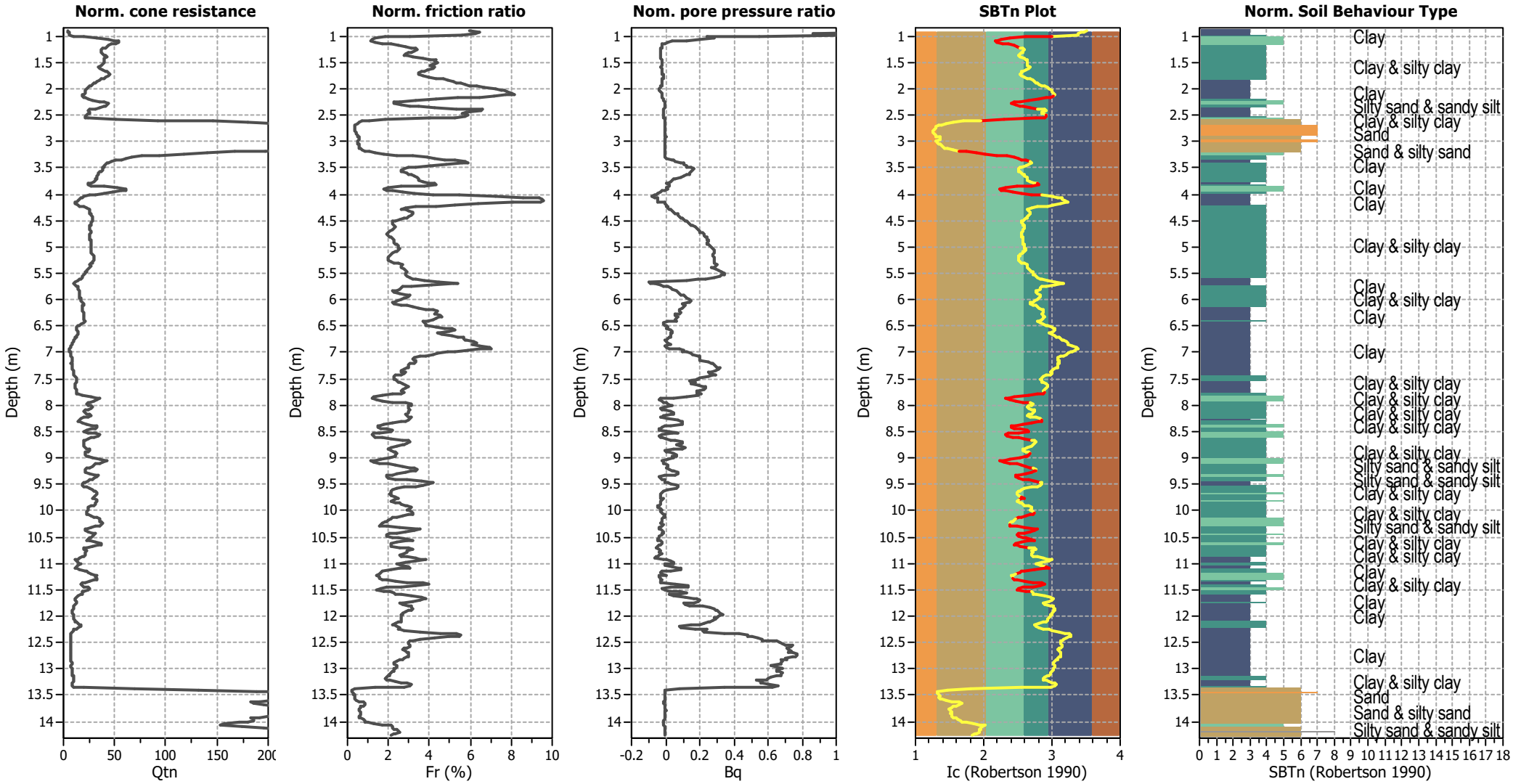
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



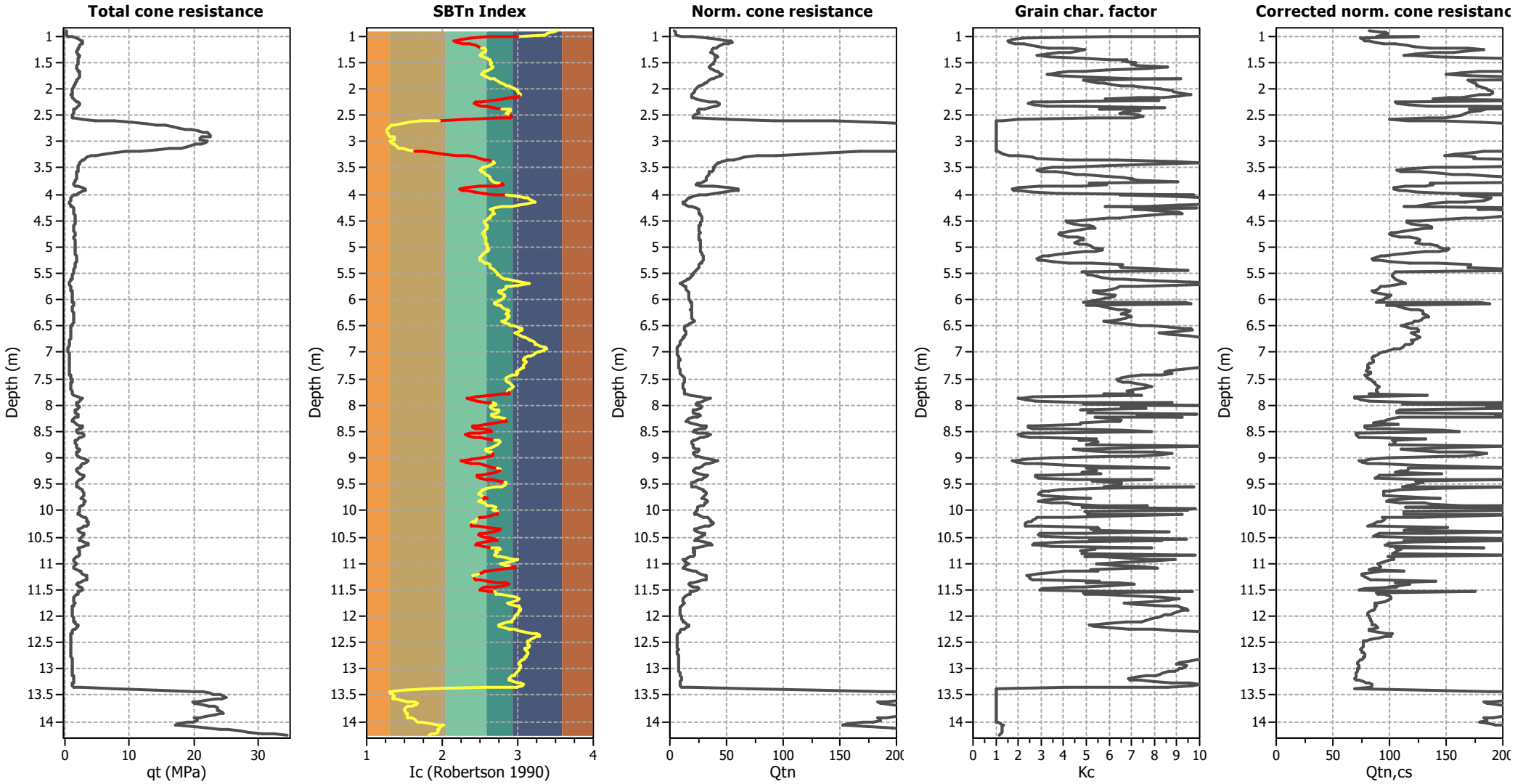
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

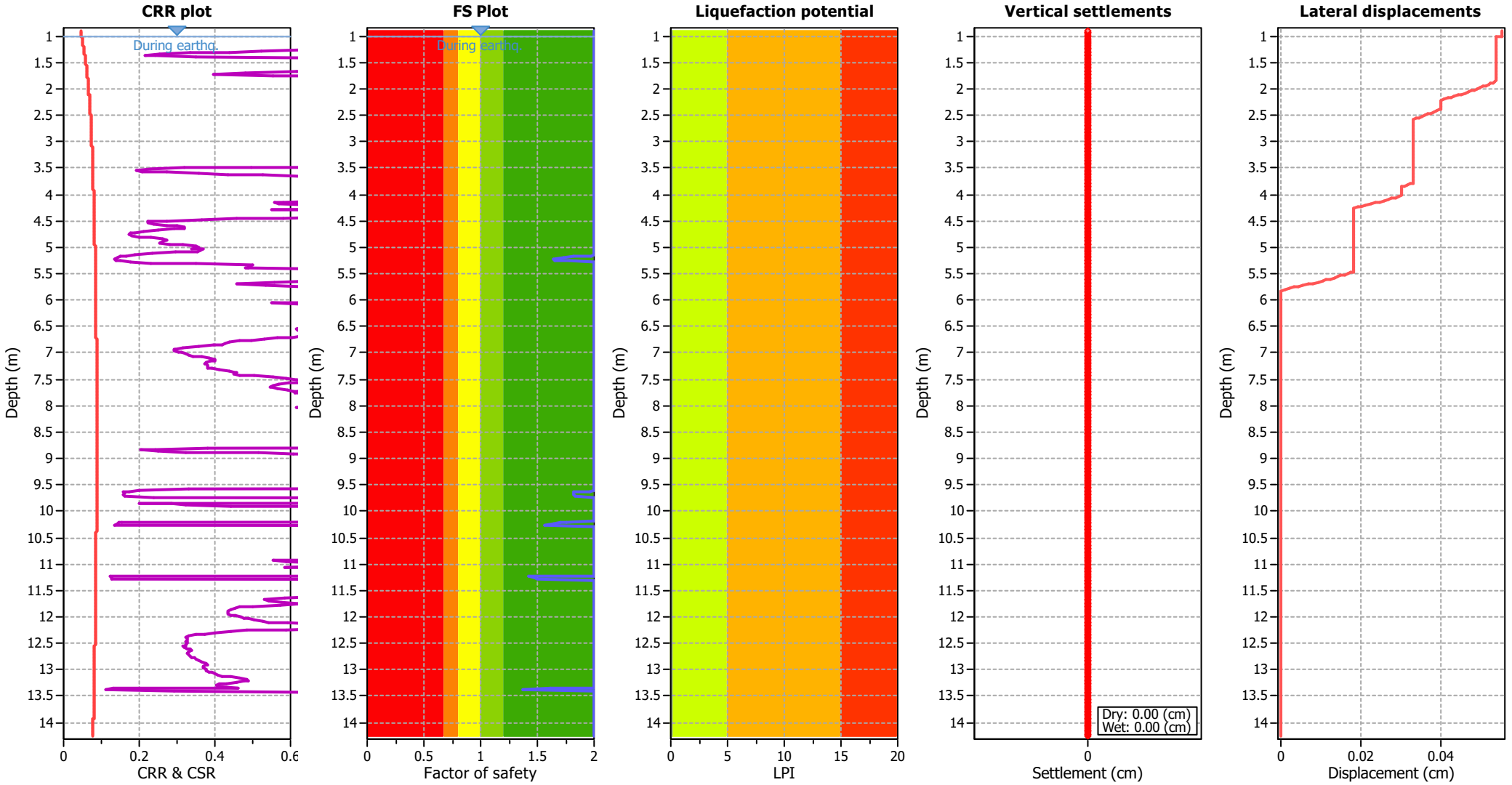
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

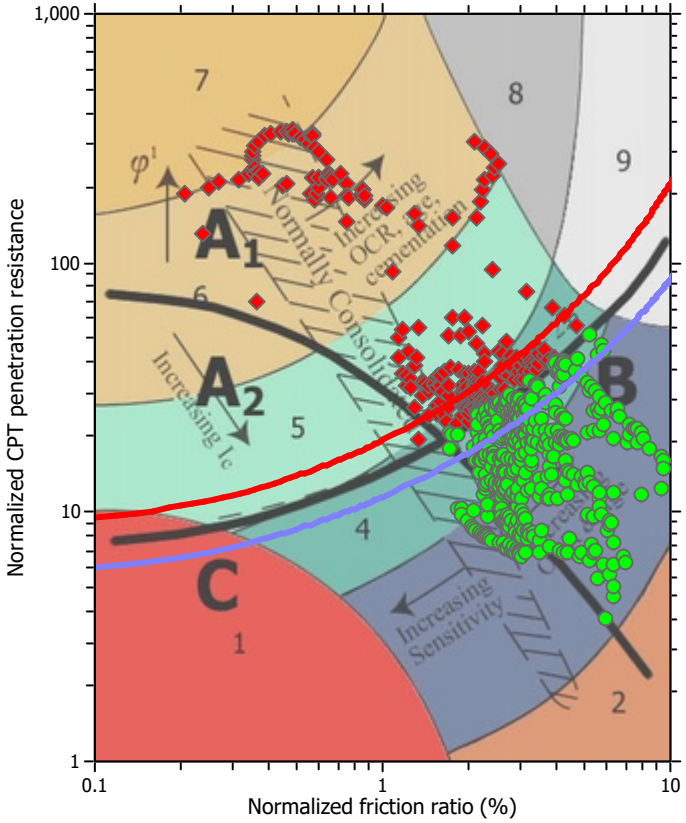
F.S. color scheme

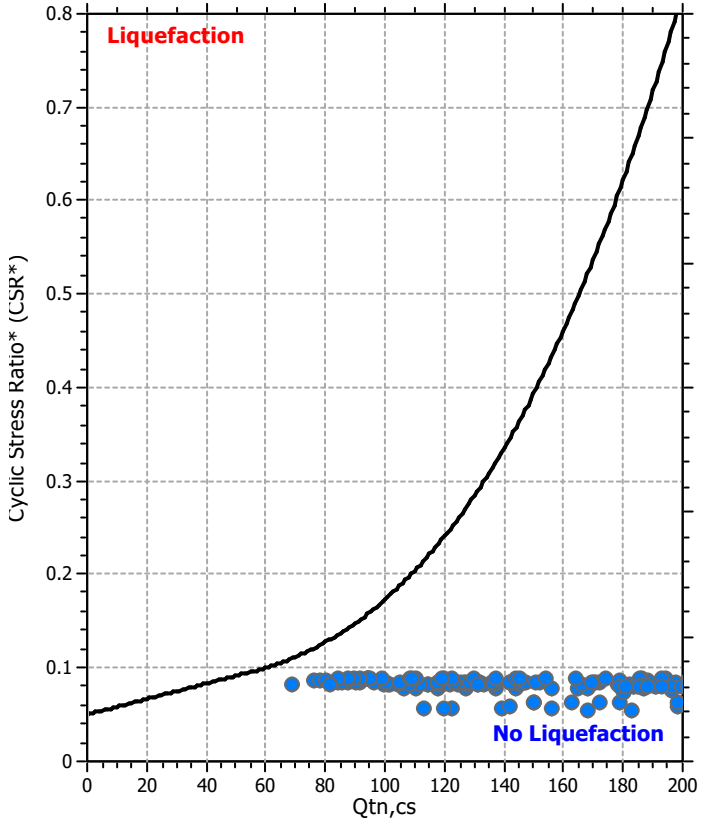
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

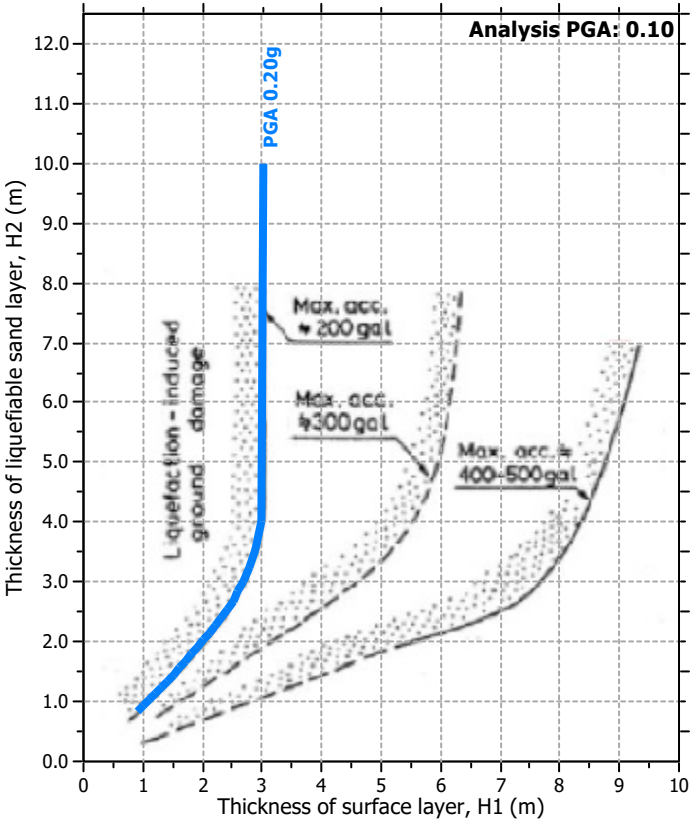
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



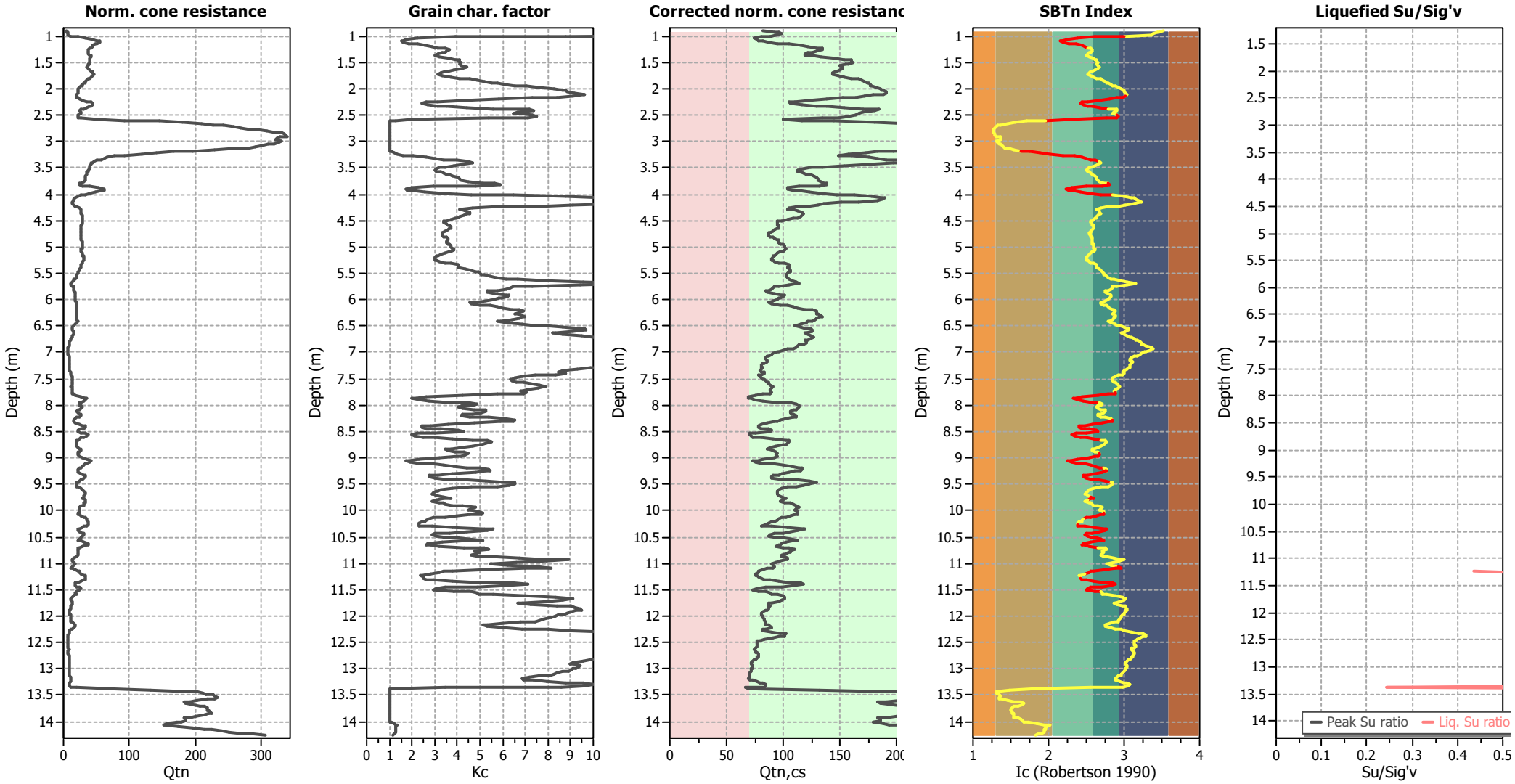




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

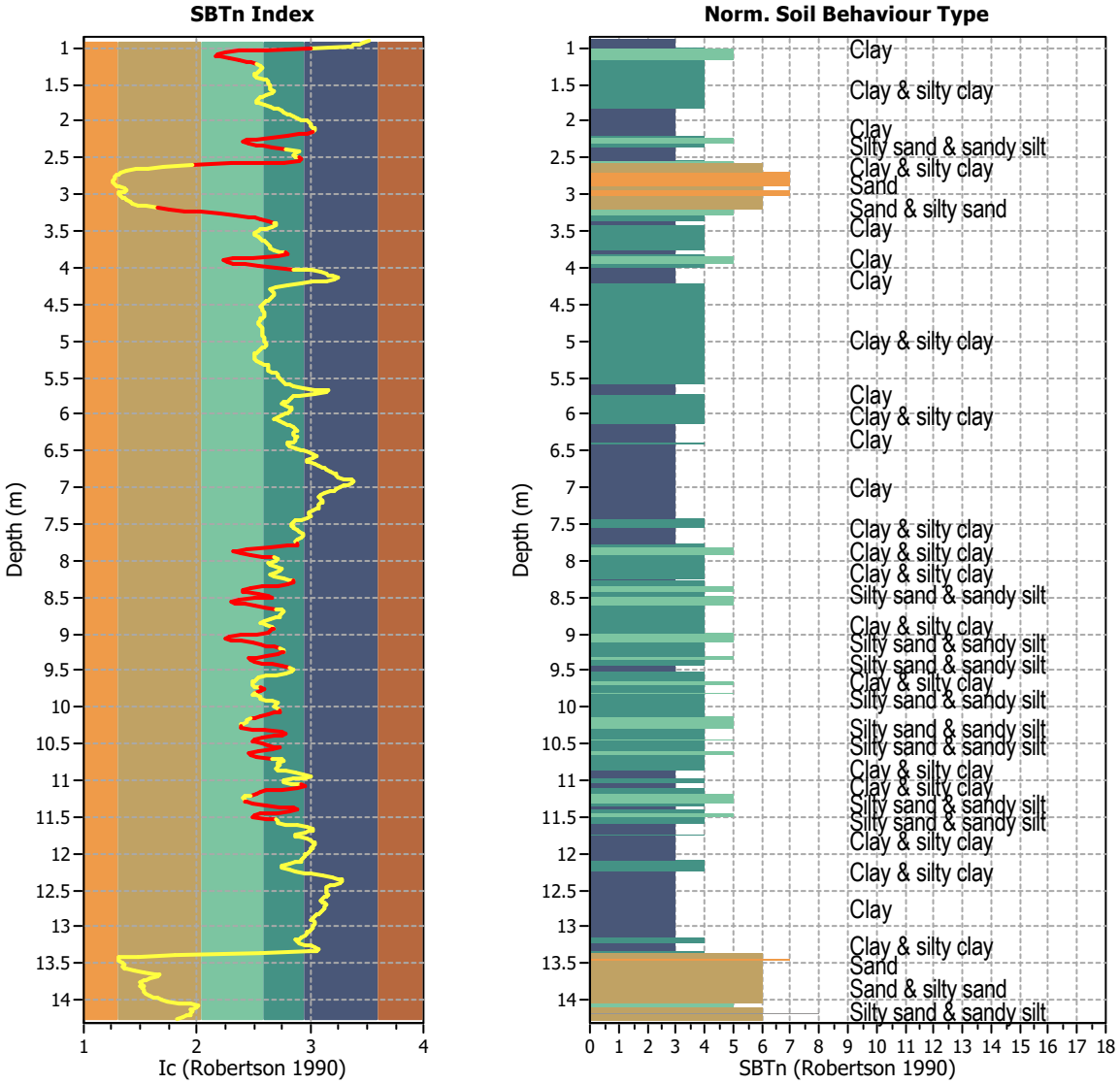
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		General statistics	
I_c minimum check value:	1.70	Total points in CPT file:	669
I_c maximum check value:	3.00	Total points excluded:	178
I_c change ratio value:	0.0100	Exclusion percentage:	26.61%
Minimum number of points in layer:	4	Number of layers detected:	29

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	4	Start depth: 1.02 (m)	4	Clay & silty clay
		End depth: 1.08 (m)	5	Silty sand & sandy silt
Transition layer 2	8	Start depth: 1.10 (m)	5	Silty sand & sandy silt
		End depth: 1.24 (m)	4	Clay & silty clay
Transition layer 3	7	Start depth: 2.16 (m)	3	Clay
		End depth: 2.28 (m)	5	Silty sand & sandy silt
Transition layer 4	7	Start depth: 2.28 (m)	5	Silty sand & sandy silt
		End depth: 2.40 (m)	3	Clay
Transition layer 5	6	Start depth: 2.52 (m)	3	Clay
		End depth: 2.62 (m)	6	Sand & silty sand
Transition layer 6	11	Start depth: 3.20 (m)	6	Sand & silty sand
		End depth: 3.40 (m)	3	Clay
Transition layer 7	5	Start depth: 3.82 (m)	3	Clay
		End depth: 3.90 (m)	5	Silty sand & sandy silt
Transition layer 8	8	Start depth: 3.90 (m)	5	Silty sand & sandy silt
		End depth: 4.04 (m)	3	Clay
Transition layer 9	6	Start depth: 7.78 (m)	3	Clay
		End depth: 7.88 (m)	5	Silty sand & sandy silt
Transition layer 10	6	Start depth: 7.88 (m)	5	Silty sand & sandy silt
		End depth: 7.98 (m)	4	Clay & silty clay
Transition layer 11	6	Start depth: 8.30 (m)	4	Clay & silty clay
		End depth: 8.40 (m)	5	Silty sand & sandy silt
Transition layer 12	5	Start depth: 8.42 (m)	5	Silty sand & sandy silt
		End depth: 8.50 (m)	4	Clay & silty clay
Transition layer 13	4	Start depth: 8.50 (m)	4	Clay & silty clay
		End depth: 8.56 (m)	5	Silty sand & sandy silt
Transition layer 14	7	Start depth: 8.56 (m)	5	Silty sand & sandy silt
		End depth: 8.68 (m)	4	Clay & silty clay
Transition layer 15	7	Start depth: 8.94 (m)	4	Clay & silty clay
		End depth: 9.06 (m)	5	Silty sand & sandy silt
Transition layer 16	9	Start depth: 9.06 (m)	5	Silty sand & sandy silt
		End depth: 9.22 (m)	4	Clay & silty clay
Transition layer 17	5	Start depth: 9.26 (m)	4	Clay & silty clay
		End depth: 9.34 (m)	5	Silty sand & sandy silt
Transition layer 18	7	Start depth: 9.36 (m)	5	Silty sand & sandy silt
		End depth: 9.48 (m)	3	Clay
Transition layer 19	4	Start depth: 9.76 (m)	4	Clay & silty clay
		End depth: 9.82 (m)	5	Silty sand & sandy silt
Transition layer 20	7	Start depth: 10.06 (m)	4	Clay & silty clay
		End depth: 10.18 (m)	5	Silty sand & sandy silt
Transition layer 21	5	Start depth: 10.28 (m)	5	Silty sand & sandy silt
		End depth: 10.36 (m)	4	Clay & silty clay
Transition layer 22	6	Start depth: 10.36 (m)	4	Clay & silty clay
		End depth: 10.46 (m)	5	Silty sand & sandy silt
Transition layer 23	6	Start depth: 10.46 (m)	5	Silty sand & sandy silt
		End depth: 10.56 (m)	4	Clay & silty clay

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 24	4	Start depth: 10.56 (m)	4	Clay & silty clay
		End depth: 10.62 (m)	5	Silty sand & sandy silt
Transition layer 25	5	Start depth: 10.64 (m)	5	Silty sand & sandy silt
		End depth: 10.72 (m)	4	Clay & silty clay
Transition layer 26	8	Start depth: 11.08 (m)	3	Clay
		End depth: 11.22 (m)	5	Silty sand & sandy silt
Transition layer 27	6	Start depth: 11.30 (m)	5	Silty sand & sandy silt
		End depth: 11.40 (m)	3	Clay
Transition layer 28	5	Start depth: 11.40 (m)	3	Clay
		End depth: 11.48 (m)	5	Silty sand & sandy silt
Transition layer 29	4	Start depth: 11.50 (m)	5	Silty sand & sandy silt
		End depth: 11.56 (m)	4	Clay & silty clay

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.16	11.30	242.90	100.00	15.16
2	0.92	0.16	11.30	242.90	95.67	15.55
3	0.94	0.28	22.00	319.30	92.76	15.69
4	0.96	0.23	15.60	243.90	88.46	15.82
5	0.98	0.24	15.10	296.50	87.28	15.66
6	1.00	0.26	15.50	277.40	58.59	15.91
7	1.02	0.93	16.40	250.50	36.30	16.39
8	1.04	1.80	25.10	478.30	25.45	16.80
9	1.06	2.15	27.70	447.20	20.64	17.09
10	1.08	2.54	28.50	320.60	18.39	17.22
11	1.10	2.83	30.60	102.20	17.77	17.36
12	1.12	2.80	36.70	42.60	18.73	17.52
13	1.14	2.68	42.60	-1.20	21.73	17.70
14	1.16	2.36	52.10	-43.20	25.11	17.84
15	1.18	2.22	57.10	-45.90	28.01	17.94
16	1.20	2.25	60.40	-46.00	29.91	18.01
17	1.22	2.11	64.70	-49.20	31.83	18.07
18	1.24	1.98	69.30	-63.30	33.76	18.07
19	1.26	1.89	63.60	-54.30	34.65	18.03
20	1.28	1.88	60.50	-49.50	34.14	17.94
21	1.30	1.89	56.60	-47.40	33.67	17.88
22	1.32	1.84	54.50	-46.50	32.77	17.84
23	1.34	1.94	53.30	-47.60	31.67	17.83
24	1.36	2.07	54.20	-50.10	30.74	17.91
25	1.38	2.18	62.40	-52.80	30.90	18.02
26	1.40	2.16	68.30	-53.30	32.00	18.14
27	1.42	2.13	74.00	-51.70	34.71	18.23
28	1.44	1.89	83.30	-44.40	36.15	18.32
29	1.46	2.10	86.70	-38.80	37.14	18.38
30	1.48	2.10	87.20	-36.30	36.93	18.39
31	1.50	1.96	86.00	-35.10	37.56	18.38
32	1.52	1.97	86.00	-35.10	37.33	18.33
33	1.54	2.02	76.70	-39.60	37.37	18.27
34	1.56	1.83	75.50	-40.70	37.61	18.18
35	1.58	1.75	70.90	-42.20	39.05	18.15
36	1.60	1.75	74.60	-39.30	39.01	18.15
37	1.62	1.84	75.50	-37.60	38.09	18.20
38	1.64	1.97	77.10	-37.50	36.03	18.25
39	1.66	2.18	78.80	-36.10	34.53	18.29
40	1.68	2.17	78.20	-39.20	33.51	18.31
41	1.70	2.21	78.50	-38.80	32.67	18.30
42	1.72	2.32	74.90	-37.60	31.80	18.34
43	1.74	2.47	84.50	-26.30	31.74	18.36
44	1.76	2.28	81.80	-26.50	32.88	18.38
45	1.78	2.14	81.80	-26.50	35.15	18.37
46	1.80	2.00	87.70	-23.60	37.35	18.37
47	1.82	1.90	87.10	-24.50	39.57	18.38
48	1.84	1.81	88.30	-26.80	41.20	18.35

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	1.71	86.00	-26.10	42.97	18.32
50	1.88	1.60	84.70	-24.00	44.32	18.30
51	1.90	1.60	87.00	-22.70	45.64	18.28
52	1.92	1.52	84.90	-23.20	47.10	18.25
53	1.94	1.39	81.90	-22.20	49.15	18.19
54	1.96	1.30	79.30	-30.90	51.34	18.14
55	1.98	1.26	80.90	-31.10	53.62	18.13
56	2.00	1.19	83.30	-29.60	56.35	18.12
57	2.02	1.08	82.30	-30.60	58.07	18.11
58	2.04	1.13	82.10	-29.90	58.51	18.12
59	2.06	1.16	85.10	-21.60	58.74	18.15
60	2.08	1.10	88.80	-14.10	60.06	18.13
61	2.10	1.01	80.20	-13.90	61.69	18.05
62	2.12	0.97	73.40	-11.90	61.50	17.94
63	2.14	0.99	68.40	-9.50	59.63	17.85
64	2.16	1.03	63.90	-9.10	56.90	17.77
65	2.18	1.06	58.50	-8.10	52.34	17.68
66	2.20	1.19	49.70	-3.40	45.90	17.60
67	2.22	1.45	46.50	-2.30	38.66	17.57
68	2.24	1.75	45.60	1.70	31.73	17.61
69	2.26	2.22	44.30	3.20	28.08	17.68
70	2.28	2.28	49.20	-0.70	26.96	17.79
71	2.30	2.24	55.90	9.10	28.86	17.94
72	2.32	2.15	65.60	6.10	31.72	18.06
73	2.34	1.98	71.20	-1.20	34.00	18.14
74	2.36	1.98	71.20	-1.20	38.92	18.20
75	2.38	1.49	85.20	-7.40	44.82	18.24
76	2.40	1.30	90.40	-5.40	51.90	18.22
77	2.42	1.24	80.80	-5.40	52.67	18.14
78	2.44	1.32	73.10	-1.70	49.60	18.08
79	2.46	1.48	73.70	-1.80	48.85	18.04
80	2.48	1.25	73.20	-0.10	49.87	18.00
81	2.50	1.17	68.20	-0.50	52.55	17.89
82	2.52	1.11	60.30	0.30	53.16	17.76
83	2.54	1.05	54.90	3.80	51.70	17.63
84	2.56	1.13	50.00	9.40	43.93	17.60
85	2.58	1.71	46.70	14.70	22.83	17.83
86	2.60	5.06	49.10	11.30	11.95	18.09
87	2.62	7.29	55.60	6.00	6.18	18.43
88	2.64	10.81	66.80	13.60	3.75	18.58
89	2.66	12.80	56.10	-0.90	2.21	18.64
90	2.68	14.06	52.50	1.60	1.22	18.61
91	2.70	15.80	54.90	2.00	0.75	18.66
92	2.72	16.69	58.60	3.80	0.49	18.75
93	2.74	17.64	62.70	5.30	0.33	18.84
94	2.76	18.66	65.80	7.70	0.19	18.93
95	2.78	19.63	69.80	9.50	0.08	19.03
96	2.80	20.54	76.70	11.40	0.01	19.15

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	21.85	84.90	11.90	0.01	19.27
98	2.84	22.26	91.20	13.40	0.04	19.37
99	2.86	22.57	97.20	13.70	0.21	19.47
100	2.88	22.51	109.10	15.20	0.32	19.53
101	2.90	22.57	106.30	12.80	0.47	19.59
102	2.92	22.47	114.40	20.60	1.10	19.68
103	2.94	18.78	142.40	6.40	1.16	19.67
104	2.96	21.88	105.10	8.20	1.13	19.64
105	2.98	22.12	105.80	17.00	0.47	19.52
106	3.00	22.27	103.20	14.10	0.53	19.55
107	3.02	22.01	112.30	17.30	0.66	19.56
108	3.04	21.11	109.80	15.60	0.87	19.57
109	3.06	20.46	108.10	14.50	1.08	19.54
110	3.08	19.72	110.10	14.30	1.32	19.53
111	3.10	18.94	110.00	14.00	1.60	19.51
112	3.12	18.03	107.60	13.50	1.89	19.48
113	3.14	16.99	105.60	13.10	2.50	19.41
114	3.16	13.86	100.10	13.00	3.48	19.32
115	3.18	11.70	98.20	12.00	5.09	19.21
116	3.20	9.45	96.50	10.90	7.18	19.13
117	3.22	7.45	100.90	10.70	10.02	19.06
118	3.24	5.87	102.80	12.70	13.61	19.04
119	3.26	4.86	112.70	13.90	18.77	19.03
120	3.28	3.61	124.50	19.50	23.95	19.05
121	3.30	3.39	132.10	18.60	28.48	19.06
122	3.32	3.19	133.50	30.90	30.79	19.05
123	3.34	2.87	132.50	136.50	33.40	19.03
124	3.36	2.59	136.50	151.30	36.55	19.01
125	3.38	2.36	137.80	163.30	39.24	18.98
126	3.40	2.23	134.30	216.20	40.43	18.92
127	3.42	2.19	121.30	254.90	40.20	18.80
128	3.44	2.09	105.50	251.50	38.15	18.59
129	3.46	2.05	75.20	276.70	35.80	18.34
130	3.48	2.02	65.10	271.50	33.50	18.09
131	3.50	1.93	58.60	321.00	32.31	17.94
132	3.52	1.94	52.50	343.10	31.32	17.83
133	3.54	1.96	49.60	335.00	30.71	17.75
134	3.56	1.88	48.10	304.80	31.14	17.71
135	3.58	1.79	48.40	283.90	32.44	17.69
136	3.60	1.71	49.00	274.60	33.48	17.71
137	3.62	1.77	52.70	269.30	34.08	17.76
138	3.64	1.79	54.30	238.90	34.68	17.80
139	3.66	1.70	54.50	207.90	35.65	17.81
140	3.68	1.66	55.40	172.50	36.92	17.81
141	3.70	1.64	56.70	111.70	37.39	17.82
142	3.72	1.66	55.90	103.60	37.26	17.82
143	3.74	1.70	55.70	81.20	37.68	17.81
144	3.76	1.57	55.90	69.30	39.48	17.77

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	1.38	53.90	45.70	42.51	17.71
146	3.80	1.27	51.90	33.50	44.99	17.65
147	3.82	1.24	51.80	51.60	46.11	17.62
148	3.84	1.24	51.80	51.60	41.05	17.66
149	3.86	1.83	50.90	64.00	30.30	17.80
150	3.88	3.04	52.30	48.20	23.01	17.94
151	3.90	3.33	55.20	55.70	20.15	18.05
152	3.92	3.25	58.50	2.20	21.10	18.15
153	3.94	2.98	66.80	-43.90	23.50	18.17
154	3.96	2.56	65.10	-47.20	27.67	18.17
155	3.98	2.07	66.90	-57.60	32.76	18.09
156	4.00	1.70	65.50	-55.50	40.09	18.02
157	4.02	1.29	68.00	-54.10	48.73	17.98
158	4.04	1.08	75.20	-50.30	58.44	17.98
159	4.06	0.96	80.50	-29.30	64.72	17.99
160	4.08	0.92	78.30	-11.00	68.30	17.98
161	4.10	0.88	77.50	-4.20	69.80	17.92
162	4.12	0.83	72.50	-1.70	71.90	17.83
163	4.14	0.75	65.10	-0.10	76.11	17.52
164	4.16	0.49	37.40	29.30	73.55	17.28
165	4.18	0.75	41.10	30.20	68.19	17.04
166	4.20	0.77	37.50	31.40	59.71	17.08
167	4.22	0.86	35.00	37.20	53.74	17.04
168	4.24	1.02	33.10	41.30	45.81	17.02
169	4.26	1.26	30.50	50.50	40.21	17.07
170	4.28	1.36	33.60	58.50	37.46	17.15
171	4.30	1.40	37.40	70.30	37.79	17.27
172	4.32	1.37	39.90	80.10	38.70	17.34
173	4.34	1.36	41.30	94.30	39.53	17.39
174	4.36	1.37	42.40	103.40	39.63	17.42
175	4.38	1.40	43.10	125.40	39.09	17.45
176	4.40	1.45	43.00	135.50	38.22	17.47
177	4.42	1.49	43.50	147.80	37.36	17.46
178	4.44	1.49	41.70	159.00	36.73	17.43
179	4.46	1.47	39.00	169.60	36.08	17.35
180	4.48	1.46	36.00	178.90	35.09	17.25
181	4.50	1.46	32.00	199.40	34.11	17.16
182	4.52	1.46	31.00	207.90	33.37	17.09
183	4.54	1.45	30.20	218.00	33.46	17.07
184	4.56	1.41	30.40	226.20	33.86	17.05
185	4.58	1.38	30.30	233.50	34.50	17.05
186	4.60	1.36	30.40	241.00	34.94	17.04
187	4.62	1.34	30.00	257.90	35.22	17.03
188	4.64	1.33	29.90	268.30	35.28	17.02
189	4.66	1.33	29.50	280.00	34.97	17.00
190	4.68	1.37	28.90	291.70	34.34	16.99
191	4.70	1.39	28.30	303.60	33.62	16.97
192	4.72	1.41	27.80	316.80	33.09	16.95

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	1.40	26.70	333.50	32.88	16.93
194	4.76	1.40	26.70	344.50	32.78	16.91
195	4.78	1.40	26.60	347.20	32.99	16.92
196	4.80	1.39	27.50	358.80	33.48	16.94
197	4.82	1.36	28.60	361.00	34.12	16.98
198	4.84	1.36	29.20	367.90	34.54	17.02
199	4.86	1.39	30.60	375.30	34.56	17.07
200	4.88	1.44	32.50	392.30	34.33	17.13
201	4.90	1.47	33.30	395.50	34.12	17.18
202	4.92	1.48	33.40	397.70	33.96	17.18
203	4.94	1.48	32.90	393.30	34.32	17.21
204	4.96	1.47	35.70	408.10	34.75	17.24
205	4.98	1.47	36.20	418.70	35.07	17.27
206	5.00	1.48	35.90	428.60	35.14	17.28
207	5.02	1.46	36.00	435.50	35.39	17.28
208	5.04	1.44	36.50	440.30	35.74	17.27
209	5.06	1.43	35.70	442.60	35.73	17.26
210	5.08	1.45	34.80	452.50	35.32	17.23
211	5.10	1.46	34.10	460.70	34.63	17.22
212	5.12	1.50	33.50	468.60	33.62	17.21
213	5.14	1.59	33.20	475.10	32.59	17.22
214	5.16	1.63	33.30	487.00	31.81	17.23
215	5.18	1.66	33.90	498.50	31.34	17.24
216	5.20	1.69	33.50	523.60	31.01	17.25
217	5.22	1.70	33.30	526.20	30.70	17.24
218	5.24	1.70	32.90	516.10	30.82	17.23
219	5.26	1.66	33.10	509.60	31.29	17.23
220	5.28	1.63	33.80	500.70	32.20	17.24
221	5.30	1.58	34.60	491.00	33.50	17.28
222	5.32	1.53	37.40	473.50	35.13	17.32
223	5.34	1.45	38.80	474.10	36.87	17.36
224	5.36	1.40	39.60	469.00	36.78	17.36
225	5.38	1.55	37.50	457.50	36.80	17.35
226	5.40	1.46	38.20	426.40	36.87	17.32
227	5.42	1.35	36.70	436.20	38.59	17.28
228	5.44	1.29	36.10	435.10	39.88	17.23
229	5.46	1.24	35.60	440.00	40.89	17.19
230	5.48	1.19	33.70	431.30	41.52	17.13
231	5.50	1.16	32.50	434.90	41.91	17.08
232	5.52	1.15	31.50	424.90	42.13	17.03
233	5.54	1.12	30.10	397.10	42.80	16.99
234	5.56	1.08	30.60	375.90	43.96	16.96
235	5.58	1.03	30.40	323.70	45.44	16.94
236	5.60	1.00	29.60	263.50	47.33	16.89
237	5.62	0.91	28.30	207.40	49.52	16.82
238	5.64	0.85	27.20	135.80	54.40	16.73
239	5.66	0.69	27.20	-14.40	61.45	16.67
240	5.68	0.59	28.10	0.40	70.16	16.61

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.54	27.30	13.30	69.22	16.57
242	5.72	0.69	24.10	26.40	60.95	16.53
243	5.74	0.84	21.90	39.00	52.49	16.47
244	5.76	0.89	20.60	57.40	48.74	16.45
245	5.78	0.89	21.20	68.40	48.14	16.45
246	5.80	0.88	21.40	81.10	47.29	16.46
247	5.82	0.94	20.50	98.80	45.54	16.44
248	5.84	0.99	19.60	108.40	43.58	16.43
249	5.86	1.01	19.80	111.20	43.54	16.50
250	5.88	1.01	23.80	123.60	45.12	16.63
251	5.90	0.99	27.20	130.70	47.37	16.77
252	5.92	0.96	28.90	146.90	48.00	16.81
253	5.94	1.00	27.00	154.60	47.63	16.80
254	5.96	1.00	26.20	161.80	46.59	16.76
255	5.98	1.00	25.80	166.70	46.03	16.74
256	6.00	1.03	25.50	186.30	44.99	16.73
257	6.02	1.07	24.90	196.80	43.20	16.71
258	6.04	1.13	23.20	197.90	41.14	16.73
259	6.06	1.23	25.10	198.90	39.74	16.75
260	6.08	1.25	25.40	160.30	39.98	16.85
261	6.10	1.22	28.90	167.70	41.92	16.97
262	6.12	1.19	34.70	180.40	43.96	17.08
263	6.14	1.18	34.90	169.00	45.52	17.17
264	6.16	1.18	36.80	155.30	46.81	17.23
265	6.18	1.16	41.40	141.20	48.60	17.33
266	6.20	1.15	45.70	133.90	50.06	17.42
267	6.22	1.16	46.90	138.90	50.67	17.50
268	6.24	1.20	50.80	150.00	49.94	17.53
269	6.26	1.25	48.10	140.20	49.16	17.56
270	6.28	1.26	48.40	119.60	49.54	17.57
271	6.30	1.20	52.80	111.40	50.58	17.61
272	6.32	1.21	53.40	130.80	51.17	17.61
273	6.34	1.22	49.40	129.30	50.37	17.58
274	6.36	1.23	47.80	122.70	50.02	17.56
275	6.38	1.22	50.60	123.30	48.61	17.58
276	6.40	1.38	50.30	129.80	46.35	17.60
277	6.42	1.49	47.60	67.90	45.51	17.55
278	6.44	1.26	43.70	34.90	47.40	17.44
279	6.46	1.08	41.50	43.00	50.54	17.23
280	6.48	0.99	29.90	51.00	52.83	17.05
281	6.50	0.92	30.70	58.60	54.82	16.95
282	6.52	0.87	35.30	65.20	58.03	17.00
283	6.54	0.87	36.00	62.40	60.47	17.07
284	6.56	0.86	37.90	60.60	61.85	17.17
285	6.58	0.88	44.30	79.30	62.06	17.20
286	6.60	0.88	39.30	86.60	59.75	17.23
287	6.62	1.00	39.20	78.70	56.80	17.19
288	6.64	1.00	37.90	87.30	56.22	17.18

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	0.92	38.20	81.00	58.04	17.19
290	6.68	0.91	41.20	80.20	61.28	17.21
291	6.70	0.86	42.40	78.90	63.30	17.22
292	6.72	0.83	40.30	70.30	65.85	17.19
293	6.74	0.78	40.50	64.80	67.38	17.10
294	6.76	0.74	35.00	61.40	69.25	17.01
295	6.78	0.70	33.80	55.30	71.16	16.94
296	6.80	0.67	35.40	59.60	73.92	16.92
297	6.82	0.64	35.20	64.00	75.36	16.91
298	6.84	0.65	33.60	72.00	75.20	16.86
299	6.86	0.65	30.90	69.80	76.40	16.77
300	6.88	0.56	29.40	55.80	80.37	16.69
301	6.90	0.51	29.40	58.90	85.98	16.60
302	6.92	0.48	27.10	66.40	88.23	16.52
303	6.94	0.48	24.50	90.40	86.63	16.39
304	6.96	0.49	21.50	97.80	84.41	16.31
305	6.98	0.49	21.50	97.80	80.87	16.23
306	7.00	0.52	19.40	110.90	78.47	16.20
307	7.02	0.53	19.30	121.60	75.51	16.13
308	7.04	0.53	17.60	127.30	73.78	16.10
309	7.06	0.55	17.60	145.60	70.98	16.05
310	7.08	0.58	16.60	155.90	67.96	16.05
311	7.10	0.61	16.70	160.00	65.15	16.06
312	7.12	0.64	17.20	165.30	63.69	16.09
313	7.14	0.64	17.30	166.70	64.04	16.11
314	7.16	0.61	17.80	165.70	65.28	16.10
315	7.18	0.59	16.90	187.20	66.18	16.06
316	7.20	0.59	16.00	195.70	65.79	16.00
317	7.22	0.59	15.30	202.40	64.53	15.96
318	7.24	0.61	15.10	206.20	63.96	15.95
319	7.26	0.60	15.50	210.60	63.77	15.96
320	7.28	0.60	15.60	215.80	63.79	15.97
321	7.30	0.61	15.40	230.00	62.76	15.97
322	7.32	0.64	15.30	234.30	60.58	15.98
323	7.34	0.68	15.40	235.60	58.05	16.03
324	7.36	0.73	16.30	229.10	57.24	16.08
325	7.38	0.71	17.10	216.00	58.26	16.16
326	7.40	0.69	18.80	219.80	58.54	16.14
327	7.42	0.70	15.30	250.60	56.68	16.12
328	7.44	0.77	15.80	254.20	53.03	16.12
329	7.46	0.86	17.60	255.40	50.57	16.23
330	7.48	0.92	18.80	231.00	49.21	16.34
331	7.50	0.95	19.80	218.60	48.41	16.41
332	7.52	0.98	20.60	233.30	48.16	16.46
333	7.54	0.99	21.00	185.50	48.54	16.52
334	7.56	0.97	22.50	191.30	49.49	16.52
335	7.58	0.93	21.50	211.60	50.84	16.51
336	7.60	0.89	20.70	184.00	52.28	16.48

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	0.86	21.70	210.60	53.80	16.50
338	7.64	0.86	23.20	232.80	54.89	16.54
339	7.66	0.85	23.10	247.00	54.66	16.55
340	7.68	0.88	22.40	250.40	53.43	16.55
341	7.70	0.92	22.60	252.30	51.57	16.56
342	7.72	0.98	22.60	229.20	50.60	16.58
343	7.74	0.97	23.10	228.10	50.13	16.61
344	7.76	0.98	23.60	224.00	51.22	16.64
345	7.78	0.94	25.00	248.20	50.68	16.59
346	7.80	0.96	20.00	249.00	45.59	16.58
347	7.82	1.34	20.30	307.90	37.84	16.67
348	7.84	1.78	25.30	311.50	28.24	16.97
349	7.86	2.95	29.50	170.10	24.65	17.23
350	7.88	2.80	33.10	-0.20	23.38	17.37
351	7.90	2.57	33.90	-15.80	25.80	17.39
352	7.92	2.29	33.70	20.30	29.37	17.45
353	7.94	2.04	42.70	48.00	34.47	17.56
354	7.96	1.73	49.50	79.80	39.21	17.67
355	7.98	1.71	50.90	93.90	41.41	17.72
356	8.00	1.80	50.90	117.10	40.22	17.82
357	8.02	2.08	60.40	135.30	38.03	17.94
358	8.04	2.29	62.20	67.90	36.83	18.02
359	8.06	2.21	60.00	15.90	38.02	17.93
360	8.08	1.70	50.00	35.10	40.50	17.75
361	8.10	1.58	44.20	57.60	43.02	17.57
362	8.12	1.57	42.90	108.60	43.05	17.50
363	8.14	1.59	43.00	134.90	42.27	17.56
364	8.16	1.75	48.90	149.80	40.17	17.70
365	8.18	2.08	55.10	137.40	37.93	17.85
366	8.20	2.25	58.40	49.80	37.66	17.91
367	8.22	1.93	55.50	37.00	39.63	17.81
368	8.24	1.60	46.00	30.30	43.67	17.57
369	8.26	1.28	35.30	84.40	47.14	17.27
370	8.28	1.15	30.90	147.20	49.10	17.05
371	8.30	1.15	29.50	169.50	48.93	16.99
372	8.32	1.22	30.80	185.40	46.20	16.98
373	8.34	1.37	28.50	207.80	40.76	17.02
374	8.36	1.74	28.00	238.90	34.40	17.16
375	8.38	2.32	35.60	136.50	29.60	17.35
376	8.40	2.66	37.80	56.50	26.93	17.52
377	8.42	2.82	38.50	15.60	26.70	17.57
378	8.44	2.53	39.30	9.30	28.27	17.53
379	8.46	2.18	36.80	-4.70	32.51	17.51
380	8.48	1.83	41.90	4.00	36.89	17.36
381	8.50	1.48	31.10	108.90	38.32	17.23
382	8.52	1.73	27.30	211.30	31.06	17.16
383	8.54	2.88	30.10	169.50	25.18	17.31
384	8.56	3.23	36.00	5.30	22.86	17.44

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	2.83	34.00	-19.80	24.19	17.42
386	8.60	2.42	30.10	0.70	27.14	17.33
387	8.62	2.16	32.20	38.10	31.08	17.38
388	8.64	2.01	42.20	82.20	35.38	17.51
389	8.66	1.84	46.40	130.70	40.46	17.60
390	8.68	1.50	46.70	156.40	43.38	17.57
391	8.70	1.56	42.50	219.60	44.32	17.52
392	8.72	1.64	42.60	222.60	43.04	17.53
393	8.74	1.67	46.00	177.40	42.08	17.53
394	8.76	1.70	41.40	171.60	42.02	17.48
395	8.78	1.59	37.80	208.30	40.42	17.36
396	8.80	1.69	33.60	268.50	37.71	17.30
397	8.82	1.98	33.80	259.50	35.01	17.37
398	8.84	2.14	40.40	164.20	33.83	17.50
399	8.86	2.18	43.80	73.50	34.59	17.58
400	8.88	2.01	41.60	84.30	36.21	17.56
401	8.90	1.84	41.10	112.10	38.47	17.47
402	8.92	1.65	37.70	149.80	39.21	17.45
403	8.94	1.85	40.40	189.70	38.65	17.48
404	8.96	1.96	42.90	187.20	37.56	17.54
405	8.98	1.94	42.60	149.00	36.53	17.62
406	9.00	2.18	47.20	180.10	32.04	17.79
407	9.02	3.21	54.40	126.80	25.98	17.83
408	9.04	3.72	37.70	6.10	22.07	17.86
409	9.06	3.74	43.20	26.30	20.51	17.71
410	9.08	3.42	37.10	32.80	22.62	17.74
411	9.10	2.93	44.00	46.60	25.79	17.76
412	9.12	2.68	50.60	77.10	30.01	17.88
413	9.14	2.51	56.60	114.10	33.16	17.98
414	9.16	2.42	61.50	99.50	35.98	18.06
415	9.18	2.27	65.90	90.80	39.10	18.05
416	9.20	1.91	60.20	94.70	41.89	17.99
417	9.22	1.84	57.60	116.30	43.84	17.91
418	9.24	1.83	57.60	143.20	44.10	17.87
419	9.26	1.79	54.60	155.00	43.28	17.79
420	9.28	1.81	46.60	207.40	40.97	17.74
421	9.30	2.06	48.50	238.40	35.68	17.82
422	9.32	2.84	57.50	225.50	31.57	17.99
423	9.34	3.12	60.00	70.70	29.00	17.99
424	9.36	2.81	44.50	-11.00	29.30	17.92
425	9.38	2.61	49.60	11.40	30.92	17.84
426	9.40	2.51	53.40	25.90	33.92	17.95
427	9.42	2.37	62.60	65.30	38.32	18.07
428	9.44	1.98	71.80	73.10	43.16	18.14
429	9.46	1.85	72.30	73.60	47.40	18.12
430	9.48	1.75	67.00	99.40	49.01	18.04
431	9.50	1.64	61.90	124.60	49.04	17.93
432	9.52	1.65	56.10	188.40	47.94	17.83

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
433	9.54	1.70	51.40	195.80	45.49	17.76
434	9.56	1.81	49.50	211.70	40.06	17.80
435	9.58	2.48	54.40	230.70	35.58	17.87
436	9.60	2.66	54.00	124.10	32.69	17.94
437	9.62	2.62	53.20	47.90	31.86	17.96
438	9.64	2.76	54.90	43.80	31.32	17.99
439	9.66	2.90	57.30	32.00	30.65	18.05
440	9.68	2.97	59.30	11.40	30.21	18.07
441	9.70	2.96	57.10	13.60	30.38	18.07
442	9.72	2.86	57.30	2.70	31.27	18.04
443	9.74	2.66	57.20	13.80	33.26	18.04
444	9.76	2.46	60.00	20.40	35.04	18.05
445	9.78	2.49	62.00	57.10	33.33	18.09
446	9.80	3.16	60.00	29.80	31.44	18.15
447	9.82	3.11	65.00	10.80	30.25	18.15
448	9.84	2.84	59.90	9.90	32.06	18.19
449	9.86	2.77	68.40	-1.70	33.48	18.25
450	9.88	2.92	76.50	3.20	33.84	18.29
451	9.90	2.90	68.00	-18.40	35.60	18.27
452	9.92	2.30	68.30	-15.10	38.14	18.15
453	9.94	2.10	62.80	-6.00	40.81	18.09
454	9.96	2.26	62.50	19.10	40.15	18.05
455	9.98	2.33	61.60	47.10	39.24	18.06
456	10.00	2.28	62.40	29.90	39.84	18.04
457	10.02	2.11	60.30	38.40	41.62	18.01
458	10.04	1.99	61.30	55.60	42.59	18.00
459	10.06	2.09	61.30	70.90	42.16	18.02
460	10.08	2.22	62.80	79.30	39.64	18.05
461	10.10	2.48	62.00	87.10	36.72	18.10
462	10.12	2.77	63.50	74.70	33.55	18.17
463	10.14	3.12	67.30	63.70	30.69	18.24
464	10.16	3.44	65.90	30.20	29.21	18.24
465	10.18	3.26	61.70	10.40	28.34	18.23
466	10.20	3.38	63.50	9.20	27.83	18.19
467	10.22	3.50	59.40	22.40	26.80	18.19
468	10.24	3.61	58.50	-11.80	25.91	18.17
469	10.26	3.65	59.40	44.30	25.75	18.06
470	10.28	3.18	44.40	31.70	25.87	17.94
471	10.30	3.18	44.40	31.70	30.10	17.98
472	10.32	2.48	72.00	6.30	35.49	18.12
473	10.34	2.22	71.60	14.40	42.90	18.18
474	10.36	1.92	65.90	35.20	44.71	18.09
475	10.38	2.02	60.80	46.90	43.40	18.02
476	10.40	2.28	59.70	61.00	39.09	18.04
477	10.42	2.68	61.80	51.90	34.64	18.08
478	10.44	3.04	59.50	34.30	31.03	18.06
479	10.46	3.13	50.20	26.80	30.10	17.95
480	10.48	2.66	46.80	1.50	31.18	17.88

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
481	10.50	2.57	52.30	1.20	34.21	17.90
482	10.52	2.47	57.20	5.80	36.63	17.99
483	10.54	2.38	62.60	-2.90	39.77	18.06
484	10.56	2.12	65.80	-2.70	42.59	18.07
485	10.58	2.03	63.80	21.70	38.75	18.14
486	10.60	3.19	66.10	37.00	33.00	18.25
487	10.62	3.69	71.50	11.40	28.94	18.39
488	10.64	3.71	78.30	-13.50	28.45	18.38
489	10.66	3.36	63.90	-32.50	29.82	18.27
490	10.68	2.87	56.10	-24.80	32.15	18.02
491	10.70	2.35	48.50	-16.60	38.33	17.90
492	10.72	1.73	57.50	-7.10	42.79	17.88
493	10.74	2.09	59.70	21.40	43.76	17.97
494	10.76	2.37	61.40	41.60	40.78	17.99
495	10.78	2.25	56.80	15.50	41.16	17.98
496	10.80	2.00	58.20	28.10	41.80	17.91
497	10.82	2.13	52.80	56.00	41.01	17.86
498	10.84	2.29	49.90	27.00	40.13	17.80
499	10.86	2.04	50.00	3.80	41.66	17.74
500	10.88	1.79	47.70	6.70	44.68	17.69
501	10.90	1.79	47.70	6.70	49.97	17.61
502	10.92	1.29	47.00	76.40	54.20	17.49
503	10.94	1.21	38.90	105.90	58.91	17.35
504	10.96	1.24	37.40	130.40	55.01	17.28
505	10.98	1.49	37.00	156.20	49.38	17.33
506	11.00	1.76	38.90	173.00	44.52	17.37
507	11.02	1.84	36.80	92.20	44.22	17.37
508	11.04	1.55	37.40	94.10	47.80	17.28
509	11.06	1.24	34.10	147.00	53.42	17.17
510	11.08	1.17	31.50	177.60	56.02	17.05
511	11.10	1.21	30.20	207.20	51.01	17.02
512	11.12	1.58	28.50	240.30	42.75	17.17
513	11.14	2.22	36.70	162.20	35.50	17.33
514	11.16	2.58	36.20	57.00	33.25	17.46
515	11.18	2.31	37.10	29.10	32.13	17.53
516	11.20	2.62	41.00	48.60	29.65	17.60
517	11.22	3.36	40.10	104.50	27.08	17.74
518	11.24	3.42	46.80	-7.70	26.35	17.83
519	11.26	3.13	48.80	-12.30	27.19	17.87
520	11.28	3.22	45.80	-1.80	27.46	17.92
521	11.30	3.48	52.20	14.30	28.15	18.00
522	11.32	3.16	59.60	34.20	30.54	18.02
523	11.34	2.57	52.30	21.70	35.55	18.00
524	11.36	2.18	57.50	44.20	41.77	17.98
525	11.38	1.94	66.40	69.30	48.59	18.02
526	11.40	1.64	68.00	192.00	51.61	17.99
527	11.42	1.71	56.20	330.40	47.14	17.91
528	11.44	2.30	49.80	362.90	41.31	17.81

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
529	11.46	2.30	47.90	179.20	33.77	17.73
530	11.48	3.01	37.80	58.90	31.34	17.59
531	11.50	2.59	33.10	88.60	30.65	17.43
532	11.52	2.12	33.30	144.70	35.91	17.36
533	11.54	1.74	37.10	252.60	40.01	17.40
534	11.56	1.96	40.20	327.00	41.35	17.49
535	11.58	2.06	42.40	241.50	41.54	17.56
536	11.60	1.86	44.20	134.80	44.65	17.57
537	11.62	1.58	44.60	165.80	51.01	17.52
538	11.64	1.26	43.30	243.50	56.62	17.45
539	11.66	1.25	41.90	284.50	59.86	17.39
540	11.68	1.25	40.80	305.10	59.49	17.37
541	11.70	1.26	41.10	327.70	58.04	17.33
542	11.72	1.31	37.60	336.50	55.01	17.31
543	11.74	1.45	36.20	317.90	50.46	17.25
544	11.76	1.59	32.20	246.90	49.74	17.17
545	11.78	1.31	31.40	238.30	52.23	17.10
546	11.80	1.16	32.50	248.20	56.84	17.01
547	11.82	1.13	28.30	313.30	59.43	16.98
548	11.84	1.09	30.10	349.00	60.06	16.93
549	11.86	1.07	29.70	367.50	61.09	16.93
550	11.88	1.06	28.90	374.60	61.12	16.89
551	11.90	1.05	27.10	379.70	60.28	16.82
552	11.92	1.06	25.10	393.10	59.49	16.76
553	11.94	1.06	24.70	399.80	58.70	16.73
554	11.96	1.06	24.60	418.10	58.31	16.73
555	11.98	1.08	25.20	424.90	57.32	16.75
556	12.00	1.14	25.30	419.30	56.56	16.80
557	12.02	1.16	27.30	410.50	55.98	16.83
558	12.04	1.16	26.90	403.20	55.55	16.87
559	12.06	1.20	27.40	420.60	54.62	16.91
560	12.08	1.26	29.00	421.70	53.66	16.97
561	12.10	1.30	30.50	414.10	53.06	17.03
562	12.12	1.32	31.50	423.20	50.34	17.11
563	12.14	1.59	32.80	434.60	46.57	17.21
564	12.16	1.80	35.10	432.00	43.35	17.33
565	12.18	1.91	39.30	370.90	42.69	17.48
566	12.20	1.94	44.60	245.50	43.51	17.50
567	12.22	1.77	38.20	238.40	47.01	17.38
568	12.24	1.30	31.30	330.30	50.47	17.10
569	12.26	1.20	24.40	359.70	55.44	16.86
570	12.28	1.10	25.00	320.40	58.69	16.79
571	12.30	1.02	28.60	305.40	65.60	16.97
572	12.32	0.95	39.40	390.00	72.03	17.12
573	12.34	0.89	40.70	437.90	77.16	17.23
574	12.36	0.85	40.60	454.90	79.32	17.20
575	12.38	0.83	38.00	451.40	79.82	17.16
576	12.40	0.84	37.30	471.70	77.59	17.05

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
577	12.42	0.86	29.90	496.10	74.54	16.89
578	12.44	0.84	24.40	512.40	70.95	16.67
579	12.46	0.83	21.30	513.50	69.24	16.54
580	12.48	0.83	21.80	574.10	68.18	16.49
581	12.50	0.84	21.30	588.90	68.06	16.49
582	12.52	0.83	21.50	599.10	68.10	16.48
583	12.54	0.82	21.30	611.30	68.59	16.48
584	12.56	0.81	21.50	632.50	69.28	16.47
585	12.58	0.79	21.00	626.20	68.80	16.46
586	12.60	0.83	20.80	629.70	67.33	16.45
587	12.62	0.87	20.20	640.50	65.72	16.44
588	12.64	0.86	20.30	655.30	65.07	16.44
589	12.66	0.86	20.30	655.30	66.45	16.45
590	12.68	0.81	21.00	636.20	67.35	16.47
591	12.70	0.83	21.70	654.00	68.03	16.50
592	12.72	0.85	22.10	681.90	67.61	16.53
593	12.74	0.84	22.50	692.10	67.08	16.55
594	12.76	0.87	22.40	689.10	66.86	16.55
595	12.78	0.86	22.30	687.30	65.78	16.55
596	12.80	0.90	22.10	666.10	64.75	16.54
597	12.82	0.91	21.40	684.40	63.65	16.51
598	12.84	0.90	20.40	657.60	62.81	16.47
599	12.86	0.91	19.40	672.50	61.47	16.43
600	12.88	0.96	19.10	688.80	59.83	16.42
601	12.90	0.98	19.30	696.70	59.32	16.42
602	12.92	0.95	19.50	679.90	59.95	16.43
603	12.94	0.94	19.50	627.00	60.92	16.44
604	12.96	0.94	20.20	664.70	60.75	16.45
605	12.98	0.96	20.00	700.80	60.19	16.46
606	13.00	0.96	19.50	696.00	59.81	16.44
607	13.02	0.96	19.40	676.50	59.60	16.43
608	13.04	0.97	19.40	686.30	58.92	16.44
609	13.06	1.01	19.60	717.90	57.96	16.45
610	13.08	1.01	19.50	741.80	57.06	16.45
611	13.10	1.02	19.00	747.60	56.38	16.45
612	13.12	1.05	19.50	765.80	55.53	16.47
613	13.14	1.08	19.90	772.20	53.77	16.51
614	13.16	1.18	20.60	779.00	51.87	16.55
615	13.18	1.22	20.20	786.40	50.51	16.57
616	13.20	1.22	20.60	776.20	50.83	16.61
617	13.22	1.21	22.60	698.00	52.62	16.69
618	13.24	1.16	24.90	713.40	55.24	16.76
619	13.26	1.11	26.00	676.30	58.52	16.82
620	13.28	1.05	27.50	656.30	61.49	16.87
621	13.30	1.03	29.30	687.00	63.24	16.92
622	13.32	1.04	30.30	755.80	62.05	16.95
623	13.34	1.13	29.00	792.40	57.61	16.98
624	13.36	1.33	29.20	848.60	33.48	17.15

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
625	13.38	4.20	26.00	745.10	5.00	17.56
626	13.40	17.08	25.70	52.50	2.50	18.03
627	13.42	20.98	47.40	-15.60	0.50	18.40
628	13.44	21.90	48.60	-17.50	0.58	18.72
629	13.46	21.51	61.60	-17.10	0.57	18.89
630	13.48	24.15	69.60	76.90	0.87	19.11
631	13.50	23.41	85.00	29.30	0.89	19.28
632	13.52	25.02	92.10	-30.90	1.03	19.39
633	13.54	25.30	91.80	-41.40	0.83	19.37
634	13.56	24.83	78.30	-22.00	0.99	19.35
635	13.58	23.12	90.20	-41.00	1.28	19.32
636	13.60	22.23	90.40	-47.50	2.20	19.45
637	13.62	20.44	113.40	-51.20	3.34	19.60
638	13.64	19.23	140.20	-38.80	4.96	19.91
639	13.66	20.15	200.00	-46.00	5.58	20.07
640	13.68	21.11	180.70	-31.90	5.17	20.14
641	13.70	22.79	162.40	-4.00	4.21	20.06
642	13.72	23.30	153.90	-45.30	3.49	19.99
643	13.74	23.74	144.80	-50.30	3.19	19.95
644	13.76	23.94	147.00	-49.70	2.75	19.84
645	13.78	23.51	112.30	141.90	2.93	19.90
646	13.80	23.99	165.70	-42.90	2.92	19.91
647	13.82	24.31	149.60	-47.40	3.25	20.04
648	13.84	24.75	162.40	-42.70	3.11	20.04
649	13.86	24.72	160.70	-33.80	3.30	20.03
650	13.88	22.89	150.50	-10.30	3.28	19.94
651	13.90	22.50	129.30	31.70	3.37	19.76
652	13.92	20.06	107.60	118.30	3.53	19.68
653	13.94	20.15	128.30	-20.40	4.22	19.75
654	13.96	20.30	157.50	-33.30	4.78	19.92
655	13.98	20.97	168.90	-52.80	5.36	20.05
656	14.00	20.25	182.60	-40.50	5.73	20.04
657	14.02	18.43	159.10	-48.60	6.80	20.13
658	14.04	18.43	218.30	-36.70	9.08	20.33
659	14.06	16.16	302.30	-46.50	11.53	20.62
660	14.08	17.11	364.20	-42.00	13.26	20.87
661	14.10	18.95	428.60	-34.60	12.61	21.11
662	14.12	23.30	497.40	-29.90	11.90	21.30
663	14.14	24.26	536.60	-38.10	11.45	21.45
664	14.16	24.99	584.70	-40.30	11.75	21.58
665	14.18	26.94	697.90	-47.50	11.47	21.58
666	14.20	29.89	708.80	-48.70	11.52	21.58
667	14.22	28.71	748.30	-48.10	10.40	21.58
668	14.24	33.74	706.50	-52.50	9.69	21.58
669	14.26	34.99	725.90	-52.50	8.74	21.58

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	0.90	13.65	0.00	13.65	1.00	0.065	1.38	0.047	1.00	1.00	2.000	No
2	0.92	13.96	0.00	13.96	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
3	0.94	14.27	0.00	14.27	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
4	0.96	14.59	0.00	14.59	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
5	0.98	14.90	0.00	14.90	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
6	1.00	15.22	0.00	15.22	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
7	1.02	15.55	0.20	15.35	0.99	0.065	1.38	0.048	1.00	1.00	2.000	Yes
8	1.04	15.88	0.39	15.49	0.99	0.066	1.38	0.048	1.00	1.00	2.000	Yes
9	1.06	16.23	0.59	15.64	0.99	0.067	1.38	0.049	1.00	1.00	2.000	Yes
10	1.08	16.57	0.78	15.79	0.99	0.068	1.38	0.049	1.00	1.00	2.000	Yes
11	1.10	16.92	0.98	15.94	0.99	0.069	1.38	0.050	1.00	1.00	2.000	Yes
12	1.12	17.27	1.18	16.09	0.99	0.069	1.38	0.050	1.00	1.00	2.000	Yes
13	1.14	17.62	1.37	16.25	0.99	0.070	1.38	0.051	1.00	1.00	2.000	Yes
14	1.16	17.98	1.57	16.41	0.99	0.071	1.38	0.051	1.00	1.00	2.000	Yes
15	1.18	18.34	1.77	16.57	0.99	0.071	1.38	0.052	1.00	1.00	2.000	Yes
16	1.20	18.70	1.96	16.74	0.99	0.072	1.38	0.052	1.00	1.00	2.000	Yes
17	1.22	19.06	2.16	16.90	0.99	0.073	1.38	0.053	1.00	1.00	2.000	Yes
18	1.24	19.42	2.35	17.07	0.99	0.073	1.38	0.053	1.00	1.00	2.000	Yes
19	1.26	19.78	2.55	17.23	0.99	0.074	1.38	0.054	1.00	1.00	0.054	No
20	1.28	20.14	2.75	17.39	0.99	0.075	1.38	0.054	1.00	1.00	0.054	No
21	1.30	20.50	2.94	17.56	0.99	0.075	1.38	0.055	1.00	1.00	0.055	No
22	1.32	20.86	3.14	17.72	0.99	0.076	1.38	0.055	1.00	1.00	0.055	No
23	1.34	21.21	3.34	17.88	0.99	0.076	1.38	0.056	1.00	1.00	0.056	No
24	1.36	21.57	3.53	18.04	0.99	0.077	1.38	0.056	1.00	1.00	0.056	No
25	1.38	21.93	3.73	18.20	0.99	0.078	1.38	0.056	1.00	1.00	0.056	No
26	1.40	22.29	3.92	18.37	0.99	0.078	1.38	0.057	1.00	1.00	0.057	No
27	1.42	22.66	4.12	18.54	0.99	0.079	1.38	0.057	1.00	1.00	0.057	No
28	1.44	23.02	4.32	18.71	0.99	0.079	1.38	0.058	1.00	1.00	0.058	No
29	1.46	23.39	4.51	18.88	0.99	0.080	1.38	0.058	1.00	1.00	0.058	No
30	1.48	23.76	4.71	19.05	0.99	0.080	1.38	0.058	1.00	1.00	0.058	No
31	1.50	24.13	4.91	19.22	0.99	0.081	1.38	0.059	1.00	1.00	0.059	No
32	1.52	24.49	5.10	19.39	0.99	0.081	1.38	0.059	1.00	1.00	0.059	No
33	1.54	24.86	5.30	19.56	0.99	0.082	1.38	0.059	1.00	1.00	0.059	No
34	1.56	25.22	5.49	19.73	0.99	0.082	1.38	0.060	1.00	1.00	0.060	No
35	1.58	25.59	5.69	19.90	0.99	0.083	1.38	0.060	1.00	1.00	0.060	No
36	1.60	25.95	5.89	20.06	0.99	0.083	1.38	0.060	1.00	1.00	0.060	No
37	1.62	26.31	6.08	20.23	0.99	0.084	1.38	0.061	1.00	1.00	0.061	No
38	1.64	26.68	6.28	20.40	0.99	0.084	1.38	0.061	1.00	1.00	0.061	No
39	1.66	27.04	6.47	20.57	0.99	0.085	1.38	0.061	1.00	1.00	0.061	No
40	1.68	27.41	6.67	20.74	0.99	0.085	1.38	0.062	1.00	1.00	0.062	No
41	1.70	27.78	6.87	20.91	0.99	0.085	1.38	0.062	1.00	1.00	0.062	No
42	1.72	28.14	7.06	21.08	0.99	0.086	1.38	0.062	1.00	1.00	0.062	No
43	1.74	28.51	7.26	21.25	0.99	0.086	1.38	0.063	1.00	1.00	0.063	No
44	1.76	28.88	7.46	21.42	0.99	0.087	1.38	0.063	1.00	1.00	0.063	No
45	1.78	29.25	7.65	21.59	0.99	0.087	1.38	0.063	1.00	1.00	0.063	No
46	1.80	29.61	7.85	21.76	0.99	0.087	1.38	0.064	1.00	1.00	0.064	No
47	1.82	29.98	8.04	21.94	0.99	0.088	1.38	0.064	1.00	1.00	0.064	No
48	1.84	30.35	8.24	22.11	0.99	0.088	1.38	0.064	1.00	1.00	0.064	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	1.86	30.71	8.44	22.28	0.99	0.089	1.38	0.064	1.00	1.00	0.064	No
50	1.88	31.08	8.63	22.45	0.99	0.089	1.38	0.065	1.00	1.00	0.065	No
51	1.90	31.45	8.83	22.62	0.99	0.089	1.38	0.065	1.00	1.00	0.065	No
52	1.92	31.81	9.03	22.79	0.99	0.090	1.38	0.065	1.00	1.00	0.065	No
53	1.94	32.17	9.22	22.95	0.99	0.090	1.38	0.065	1.00	1.00	0.065	No
54	1.96	32.54	9.42	23.12	0.99	0.090	1.38	0.066	1.00	1.00	0.066	No
55	1.98	32.90	9.61	23.29	0.99	0.091	1.38	0.066	1.00	1.00	0.066	No
56	2.00	33.26	9.81	23.45	0.99	0.091	1.38	0.066	1.00	1.00	0.066	No
57	2.02	33.62	10.01	23.62	0.99	0.091	1.38	0.066	1.00	1.00	0.066	No
58	2.04	33.99	10.20	23.78	0.99	0.092	1.38	0.067	1.00	1.00	0.067	No
59	2.06	34.35	10.40	23.95	0.99	0.092	1.38	0.067	1.00	1.00	0.067	No
60	2.08	34.71	10.59	24.12	0.99	0.092	1.38	0.067	1.00	1.00	0.067	No
61	2.10	35.07	10.79	24.28	0.99	0.093	1.38	0.067	1.00	1.00	0.067	No
62	2.12	35.43	10.99	24.44	0.99	0.093	1.38	0.067	1.00	1.00	0.067	No
63	2.14	35.79	11.18	24.61	0.99	0.093	1.38	0.068	1.00	1.00	0.068	No
64	2.16	36.14	11.38	24.76	0.99	0.093	1.38	0.068	1.00	1.00	2.000	Yes
65	2.18	36.50	11.58	24.92	0.99	0.094	1.38	0.068	1.00	1.00	2.000	Yes
66	2.20	36.85	11.77	25.08	0.99	0.094	1.38	0.068	1.00	1.00	2.000	Yes
67	2.22	37.20	11.97	25.23	0.99	0.094	1.38	0.069	1.00	1.00	2.000	Yes
68	2.24	37.55	12.16	25.39	0.98	0.095	1.38	0.069	1.00	1.00	2.000	Yes
69	2.26	37.91	12.36	25.55	0.98	0.095	1.38	0.069	1.00	1.00	2.000	Yes
70	2.28	38.26	12.56	25.71	0.98	0.095	1.38	0.069	1.00	1.00	2.000	Yes
71	2.30	38.62	12.75	25.87	0.98	0.096	1.38	0.069	1.00	1.00	2.000	Yes
72	2.32	38.98	12.95	26.03	0.98	0.096	1.38	0.070	1.00	1.00	2.000	Yes
73	2.34	39.35	13.15	26.20	0.98	0.096	1.38	0.070	1.00	1.00	2.000	Yes
74	2.36	39.71	13.34	26.37	0.98	0.096	1.38	0.070	1.00	1.00	2.000	Yes
75	2.38	40.07	13.54	26.54	0.98	0.097	1.38	0.070	1.00	1.00	2.000	Yes
76	2.40	40.44	13.73	26.70	0.98	0.097	1.38	0.070	1.00	1.00	2.000	Yes
77	2.42	40.80	13.93	26.87	0.98	0.097	1.38	0.071	1.00	1.00	0.071	No
78	2.44	41.16	14.13	27.04	0.98	0.097	1.38	0.071	1.00	1.00	0.071	No
79	2.46	41.52	14.32	27.20	0.98	0.098	1.38	0.071	1.00	1.00	0.071	No
80	2.48	41.88	14.52	27.37	0.98	0.098	1.38	0.071	1.00	1.00	0.071	No
81	2.50	42.24	14.72	27.53	0.98	0.098	1.38	0.071	1.00	1.00	0.071	No
82	2.52	42.60	14.91	27.69	0.98	0.098	1.38	0.071	1.00	1.00	2.000	Yes
83	2.54	42.95	15.11	27.84	0.98	0.099	1.38	0.072	1.00	1.00	2.000	Yes
84	2.56	43.30	15.30	28.00	0.98	0.099	1.38	0.072	1.00	1.00	2.000	Yes
85	2.58	43.66	15.50	28.16	0.98	0.099	1.38	0.072	1.00	1.00	2.000	Yes
86	2.60	44.02	15.70	28.32	0.98	0.099	1.38	0.072	1.00	1.00	2.000	Yes
87	2.62	44.39	15.89	28.50	0.98	0.099	1.38	0.072	1.00	1.00	2.000	Yes
88	2.64	44.76	16.09	28.67	0.98	0.100	1.38	0.072	1.00	1.00	0.072	No
89	2.66	45.13	16.28	28.85	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
90	2.68	45.51	16.48	29.02	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
91	2.70	45.88	16.68	29.20	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
92	2.72	46.25	16.87	29.38	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
93	2.74	46.63	17.07	29.56	0.98	0.101	1.38	0.073	1.00	1.00	0.073	No
94	2.76	47.01	17.27	29.74	0.98	0.101	1.38	0.073	1.00	1.00	0.073	No
95	2.78	47.39	17.46	29.93	0.98	0.101	1.38	0.073	1.00	1.00	0.073	No
96	2.80	47.77	17.66	30.11	0.98	0.101	1.38	0.074	1.00	1.00	0.074	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	2.82	48.16	17.85	30.30	0.98	0.101	1.38	0.074	1.00	1.00	0.074	No
98	2.84	48.55	18.05	30.49	0.98	0.101	1.38	0.074	1.00	1.00	0.074	No
99	2.86	48.93	18.25	30.69	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
100	2.88	49.33	18.44	30.88	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
101	2.90	49.72	18.64	31.08	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
102	2.92	50.11	18.84	31.28	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
103	2.94	50.50	19.03	31.47	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
104	2.96	50.90	19.23	31.67	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
105	2.98	51.29	19.42	31.86	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
106	3.00	51.68	19.62	32.06	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
107	3.02	52.07	19.82	32.25	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
108	3.04	52.46	20.01	32.45	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
109	3.06	52.85	20.21	32.64	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
110	3.08	53.24	20.40	32.84	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
111	3.10	53.63	20.60	33.03	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
112	3.12	54.02	20.80	33.22	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
113	3.14	54.41	20.99	33.42	0.98	0.104	1.38	0.075	1.00	1.00	0.075	No
114	3.16	54.80	21.19	33.61	0.98	0.104	1.38	0.075	1.00	1.00	0.075	No
115	3.18	55.18	21.39	33.79	0.98	0.104	1.38	0.075	1.00	1.00	0.075	No
116	3.20	55.56	21.58	33.98	0.98	0.104	1.38	0.076	1.00	1.00	2.000	Yes
117	3.22	55.94	21.78	34.17	0.98	0.104	1.38	0.076	1.00	1.00	2.000	Yes
118	3.24	56.33	21.97	34.35	0.98	0.104	1.38	0.076	1.00	1.00	2.000	Yes
119	3.26	56.71	22.17	34.54	0.98	0.104	1.38	0.076	1.00	1.00	2.000	Yes
120	3.28	57.09	22.37	34.72	0.98	0.104	1.38	0.076	1.00	1.00	2.000	Yes
121	3.30	57.47	22.56	34.91	0.98	0.105	1.38	0.076	1.00	1.00	2.000	Yes
122	3.32	57.85	22.76	35.09	0.98	0.105	1.38	0.076	1.00	1.00	2.000	Yes
123	3.34	58.23	22.96	35.27	0.98	0.105	1.38	0.076	1.00	1.00	2.000	Yes
124	3.36	58.61	23.15	35.46	0.98	0.105	1.38	0.076	1.00	1.00	2.000	Yes
125	3.38	58.99	23.35	35.64	0.98	0.105	1.38	0.076	1.00	1.00	2.000	Yes
126	3.40	59.37	23.54	35.82	0.98	0.105	1.38	0.076	1.00	1.00	2.000	Yes
127	3.42	59.74	23.74	36.00	0.98	0.105	1.38	0.077	1.00	1.00	0.077	No
128	3.44	60.12	23.94	36.18	0.98	0.105	1.38	0.077	1.00	1.00	0.077	No
129	3.46	60.48	24.13	36.35	0.98	0.106	1.38	0.077	1.00	1.00	0.077	No
130	3.48	60.84	24.33	36.52	0.98	0.106	1.38	0.077	1.00	1.00	0.077	No
131	3.50	61.20	24.53	36.68	0.98	0.106	1.38	0.077	1.00	1.00	0.077	No
132	3.52	61.56	24.72	36.84	0.98	0.106	1.38	0.077	1.00	1.00	0.077	No
133	3.54	61.91	24.92	37.00	0.98	0.106	1.38	0.077	1.00	1.00	0.077	No
134	3.56	62.27	25.11	37.16	0.98	0.106	1.38	0.077	1.00	1.00	0.077	No
135	3.58	62.62	25.31	37.31	0.98	0.106	1.38	0.077	1.00	1.00	0.077	No
136	3.60	62.98	25.51	37.47	0.98	0.107	1.38	0.077	1.00	1.00	0.077	No
137	3.62	63.33	25.70	37.63	0.98	0.107	1.38	0.078	1.00	1.00	0.078	No
138	3.64	63.69	25.90	37.79	0.98	0.107	1.38	0.078	1.00	1.00	0.078	No
139	3.66	64.04	26.09	37.95	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
140	3.68	64.40	26.29	38.11	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
141	3.70	64.76	26.49	38.27	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
142	3.72	65.11	26.68	38.43	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
143	3.74	65.47	26.88	38.59	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
144	3.76	65.82	27.08	38.75	0.97	0.108	1.38	0.078	1.00	1.00	0.078	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	3.78	66.18	27.27	38.91	0.97	0.108	1.38	0.078	1.00	1.00	0.078	No
146	3.80	66.53	27.47	39.06	0.97	0.108	1.38	0.078	1.00	1.00	0.078	No
147	3.82	66.88	27.66	39.22	0.97	0.108	1.38	0.078	1.00	1.00	2.000	Yes
148	3.84	67.24	27.86	39.38	0.97	0.108	1.38	0.079	1.00	1.00	2.000	Yes
149	3.86	67.59	28.06	39.54	0.97	0.108	1.38	0.079	1.00	1.00	2.000	Yes
150	3.88	67.95	28.25	39.70	0.97	0.108	1.38	0.079	1.00	1.00	2.000	Yes
151	3.90	68.31	28.45	39.86	0.97	0.108	1.38	0.079	1.00	1.00	2.000	Yes
152	3.92	68.68	28.65	40.03	0.97	0.109	1.38	0.079	1.00	1.00	2.000	Yes
153	3.94	69.04	28.84	40.20	0.97	0.109	1.38	0.079	1.00	1.00	2.000	Yes
154	3.96	69.40	29.04	40.37	0.97	0.109	1.38	0.079	1.00	1.00	2.000	Yes
155	3.98	69.76	29.23	40.53	0.97	0.109	1.38	0.079	1.00	1.00	2.000	Yes
156	4.00	70.13	29.43	40.70	0.97	0.109	1.38	0.079	1.00	1.00	2.000	Yes
157	4.02	70.48	29.63	40.86	0.97	0.109	1.38	0.079	1.00	1.00	2.000	Yes
158	4.04	70.84	29.82	41.02	0.97	0.109	1.38	0.079	1.00	1.00	2.000	Yes
159	4.06	71.20	30.02	41.19	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
160	4.08	71.56	30.21	41.35	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
161	4.10	71.92	30.41	41.51	0.97	0.109	1.38	0.080	1.00	1.00	0.080	No
162	4.12	72.28	30.61	41.67	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
163	4.14	72.63	30.80	41.83	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
164	4.16	72.97	31.00	41.98	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
165	4.18	73.32	31.20	42.12	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
166	4.20	73.66	31.39	42.27	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
167	4.22	74.00	31.59	42.41	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
168	4.24	74.34	31.78	42.55	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
169	4.26	74.68	31.98	42.70	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
170	4.28	75.02	32.18	42.85	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
171	4.30	75.37	32.37	43.00	0.97	0.111	1.38	0.080	1.00	1.00	0.080	No
172	4.32	75.72	32.57	43.15	0.97	0.111	1.38	0.080	1.00	1.00	0.080	No
173	4.34	76.06	32.77	43.30	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
174	4.36	76.41	32.96	43.45	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
175	4.38	76.76	33.16	43.60	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
176	4.40	77.11	33.35	43.76	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
177	4.42	77.46	33.55	43.91	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
178	4.44	77.81	33.75	44.06	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
179	4.46	78.15	33.94	44.21	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
180	4.48	78.50	34.14	44.36	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
181	4.50	78.84	34.34	44.51	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
182	4.52	79.18	34.53	44.65	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
183	4.54	79.53	34.73	44.80	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
184	4.56	79.87	34.92	44.94	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
185	4.58	80.21	35.12	45.09	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
186	4.60	80.55	35.32	45.23	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
187	4.62	80.89	35.51	45.38	0.97	0.112	1.38	0.082	1.00	1.00	0.082	No
188	4.64	81.23	35.71	45.52	0.97	0.112	1.38	0.082	1.00	1.00	0.082	No
189	4.66	81.57	35.90	45.67	0.97	0.112	1.38	0.082	1.00	1.00	0.082	No
190	4.68	81.91	36.10	45.81	0.97	0.112	1.38	0.082	1.00	1.00	0.082	No
191	4.70	82.25	36.30	45.95	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
192	4.72	82.59	36.49	46.10	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	4.74	82.93	36.69	46.24	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
194	4.76	83.26	36.89	46.38	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
195	4.78	83.60	37.08	46.52	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
196	4.80	83.94	37.28	46.66	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
197	4.82	84.28	37.47	46.81	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
198	4.84	84.62	37.67	46.95	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
199	4.86	84.96	37.87	47.10	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
200	4.88	85.31	38.06	47.24	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
201	4.90	85.65	38.26	47.39	0.97	0.114	1.38	0.082	1.00	1.00	0.082	No
202	4.92	85.99	38.46	47.54	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
203	4.94	86.34	38.65	47.69	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
204	4.96	86.68	38.85	47.83	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
205	4.98	87.03	39.04	47.98	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
206	5.00	87.37	39.24	48.13	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
207	5.02	87.72	39.44	48.28	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
208	5.04	88.06	39.63	48.43	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
209	5.06	88.41	39.83	48.58	0.97	0.114	1.38	0.083	1.00	1.00	0.083	No
210	5.08	88.75	40.02	48.73	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
211	5.10	89.10	40.22	48.88	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
212	5.12	89.44	40.42	49.03	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
213	5.14	89.79	40.61	49.17	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
214	5.16	90.13	40.81	49.32	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
215	5.18	90.48	41.01	49.47	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
216	5.20	90.82	41.20	49.62	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
217	5.22	91.17	41.40	49.77	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
218	5.24	91.51	41.59	49.92	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
219	5.26	91.86	41.79	50.07	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
220	5.28	92.20	41.99	50.21	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
221	5.30	92.55	42.18	50.36	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
222	5.32	92.89	42.38	50.51	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
223	5.34	93.24	42.58	50.66	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
224	5.36	93.59	42.77	50.82	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
225	5.38	93.93	42.97	50.97	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
226	5.40	94.28	43.16	51.12	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
227	5.42	94.63	43.36	51.27	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
228	5.44	94.97	43.56	51.41	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
229	5.46	95.31	43.75	51.56	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
230	5.48	95.66	43.95	51.71	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
231	5.50	96.00	44.15	51.85	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
232	5.52	96.34	44.34	52.00	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
233	5.54	96.68	44.54	52.14	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
234	5.56	97.02	44.73	52.28	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
235	5.58	97.36	44.93	52.43	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
236	5.60	97.69	45.13	52.57	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
237	5.62	98.03	45.32	52.71	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
238	5.64	98.37	45.52	52.85	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
239	5.66	98.70	45.71	52.98	0.96	0.116	1.38	0.085	1.00	1.00	0.085	No
240	5.68	99.03	45.91	53.12	0.96	0.116	1.38	0.085	1.00	1.00	0.085	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	5.70	99.36	46.11	53.26	0.96	0.116	1.38	0.085	1.00	1.00	0.085	No
242	5.72	99.69	46.30	53.39	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
243	5.74	100.02	46.50	53.52	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
244	5.76	100.35	46.70	53.66	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
245	5.78	100.68	46.89	53.79	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
246	5.80	101.01	47.09	53.92	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
247	5.82	101.34	47.28	54.06	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
248	5.84	101.67	47.48	54.19	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
249	5.86	102.00	47.68	54.32	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
250	5.88	102.33	47.87	54.46	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
251	5.90	102.67	48.07	54.60	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
252	5.92	103.00	48.27	54.74	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
253	5.94	103.34	48.46	54.88	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
254	5.96	103.67	48.66	55.02	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
255	5.98	104.01	48.85	55.15	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
256	6.00	104.34	49.05	55.29	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
257	6.02	104.68	49.25	55.43	0.96	0.118	1.38	0.085	1.00	1.00	0.085	No
258	6.04	105.01	49.44	55.57	0.96	0.118	1.38	0.085	1.00	1.00	0.085	No
259	6.06	105.35	49.64	55.71	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
260	6.08	105.68	49.83	55.85	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
261	6.10	106.02	50.03	55.99	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
262	6.12	106.36	50.23	56.14	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
263	6.14	106.71	50.42	56.28	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
264	6.16	107.05	50.62	56.43	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
265	6.18	107.40	50.82	56.58	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
266	6.20	107.75	51.01	56.74	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
267	6.22	108.10	51.21	56.89	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
268	6.24	108.45	51.40	57.04	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
269	6.26	108.80	51.60	57.20	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
270	6.28	109.15	51.80	57.35	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
271	6.30	109.50	51.99	57.51	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
272	6.32	109.86	52.19	57.67	0.95	0.118	1.38	0.086	1.00	1.00	0.086	No
273	6.34	110.21	52.39	57.82	0.95	0.118	1.38	0.086	1.00	1.00	0.086	No
274	6.36	110.56	52.58	57.98	0.95	0.118	1.38	0.086	1.00	1.00	0.086	No
275	6.38	110.91	52.78	58.13	0.95	0.118	1.38	0.086	1.00	1.00	0.086	No
276	6.40	111.26	52.97	58.29	0.95	0.118	1.38	0.086	1.00	1.00	0.086	No
277	6.42	111.61	53.17	58.44	0.95	0.118	1.38	0.086	1.00	1.00	0.086	No
278	6.44	111.96	53.37	58.59	0.95	0.118	1.38	0.086	1.00	1.00	0.086	No
279	6.46	112.31	53.56	58.74	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
280	6.48	112.65	53.76	58.89	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
281	6.50	112.99	53.96	59.03	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
282	6.52	113.33	54.15	59.17	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
283	6.54	113.67	54.35	59.32	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
284	6.56	114.01	54.54	59.47	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
285	6.58	114.35	54.74	59.61	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
286	6.60	114.70	54.94	59.76	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
287	6.62	115.04	55.13	59.91	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
288	6.64	115.39	55.33	60.06	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	6.66	115.73	55.52	60.21	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
290	6.68	116.07	55.72	60.35	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
291	6.70	116.42	55.92	60.50	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
292	6.72	116.76	56.11	60.65	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
293	6.74	117.11	56.31	60.80	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
294	6.76	117.45	56.51	60.94	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
295	6.78	117.78	56.70	61.08	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
296	6.80	118.12	56.90	61.22	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
297	6.82	118.46	57.09	61.37	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
298	6.84	118.80	57.29	61.51	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
299	6.86	119.13	57.49	61.65	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
300	6.88	119.47	57.68	61.78	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
301	6.90	119.80	57.88	61.92	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
302	6.92	120.13	58.08	62.05	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
303	6.94	120.46	58.27	62.19	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
304	6.96	120.78	58.47	62.32	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
305	6.98	121.11	58.66	62.44	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
306	7.00	121.43	58.86	62.57	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
307	7.02	121.75	59.06	62.70	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
308	7.04	122.08	59.25	62.82	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
309	7.06	122.40	59.45	62.95	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
310	7.08	122.72	59.64	63.07	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
311	7.10	123.04	59.84	63.20	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
312	7.12	123.36	60.04	63.32	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
313	7.14	123.68	60.23	63.45	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
314	7.16	124.01	60.43	63.58	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
315	7.18	124.33	60.63	63.70	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
316	7.20	124.65	60.82	63.83	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
317	7.22	124.97	61.02	63.95	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
318	7.24	125.29	61.21	64.07	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
319	7.26	125.60	61.41	64.19	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
320	7.28	125.92	61.61	64.32	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
321	7.30	126.24	61.80	64.44	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
322	7.32	126.56	62.00	64.56	0.95	0.120	1.38	0.088	1.00	1.00	0.088	No
323	7.34	126.88	62.20	64.69	0.94	0.120	1.38	0.088	1.00	1.00	0.088	No
324	7.36	127.21	62.39	64.81	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
325	7.38	127.53	62.59	64.94	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
326	7.40	127.85	62.78	65.07	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
327	7.42	128.17	62.98	65.19	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
328	7.44	128.50	63.18	65.32	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
329	7.46	128.82	63.37	65.45	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
330	7.48	129.15	63.57	65.58	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
331	7.50	129.48	63.77	65.71	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
332	7.52	129.81	63.96	65.84	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
333	7.54	130.14	64.16	65.98	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
334	7.56	130.47	64.35	66.11	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
335	7.58	130.80	64.55	66.25	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
336	7.60	131.13	64.75	66.38	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	7.62	131.46	64.94	66.51	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
338	7.64	131.79	65.14	66.65	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
339	7.66	132.12	65.33	66.78	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
340	7.68	132.45	65.53	66.92	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
341	7.70	132.78	65.73	67.05	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
342	7.72	133.11	65.92	67.19	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
343	7.74	133.44	66.12	67.32	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
344	7.76	133.78	66.32	67.46	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
345	7.78	134.11	66.51	67.60	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
346	7.80	134.44	66.71	67.73	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
347	7.82	134.77	66.90	67.87	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
348	7.84	135.11	67.10	68.01	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
349	7.86	135.46	67.30	68.16	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
350	7.88	135.80	67.49	68.31	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
351	7.90	136.15	67.69	68.46	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
352	7.92	136.50	67.89	68.62	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
353	7.94	136.85	68.08	68.77	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
354	7.96	137.21	68.28	68.93	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
355	7.98	137.56	68.47	69.09	0.94	0.121	1.38	0.088	1.00	1.00	2.000	Yes
356	8.00	137.92	68.67	69.25	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
357	8.02	138.28	68.87	69.41	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
358	8.04	138.64	69.06	69.57	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
359	8.06	138.99	69.26	69.74	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
360	8.08	139.35	69.45	69.89	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
361	8.10	139.70	69.65	70.05	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
362	8.12	140.05	69.85	70.20	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
363	8.14	140.40	70.04	70.36	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
364	8.16	140.76	70.24	70.52	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
365	8.18	141.11	70.44	70.68	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
366	8.20	141.47	70.63	70.84	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
367	8.22	141.83	70.83	71.00	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
368	8.24	142.18	71.02	71.15	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
369	8.26	142.52	71.22	71.30	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
370	8.28	142.86	71.42	71.45	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
371	8.30	143.20	71.61	71.59	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
372	8.32	143.54	71.81	71.74	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
373	8.34	143.88	72.01	71.88	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
374	8.36	144.23	72.20	72.03	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
375	8.38	144.57	72.40	72.18	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
376	8.40	144.93	72.59	72.33	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
377	8.42	145.28	72.79	72.49	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
378	8.44	145.63	72.99	72.64	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
379	8.46	145.98	73.18	72.79	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
380	8.48	146.32	73.38	72.95	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
381	8.50	146.67	73.58	73.09	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
382	8.52	147.01	73.77	73.24	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
383	8.54	147.36	73.97	73.39	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
384	8.56	147.71	74.16	73.54	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	8.58	148.06	74.36	73.70	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
386	8.60	148.40	74.56	73.85	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
387	8.62	148.75	74.75	74.00	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
388	8.64	149.10	74.95	74.15	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
389	8.66	149.45	75.14	74.31	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
390	8.68	149.80	75.34	74.46	0.93	0.121	1.38	0.088	1.00	1.00	2.000	Yes
391	8.70	150.15	75.54	74.62	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
392	8.72	150.50	75.73	74.77	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
393	8.74	150.85	75.93	74.93	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
394	8.76	151.20	76.13	75.08	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
395	8.78	151.55	76.32	75.23	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
396	8.80	151.90	76.52	75.38	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
397	8.82	152.25	76.71	75.53	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
398	8.84	152.60	76.91	75.68	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
399	8.86	152.95	77.11	75.84	0.93	0.121	1.38	0.088	1.00	1.00	0.088	No
400	8.88	153.30	77.30	76.00	0.92	0.121	1.38	0.088	1.00	1.00	0.088	No
401	8.90	153.65	77.50	76.15	0.92	0.121	1.38	0.088	1.00	1.00	0.088	No
402	8.92	154.00	77.70	76.30	0.92	0.121	1.38	0.088	1.00	1.00	0.088	No
403	8.94	154.35	77.89	76.45	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
404	8.96	154.70	78.09	76.61	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
405	8.98	155.05	78.28	76.77	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
406	9.00	155.41	78.48	76.93	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
407	9.02	155.76	78.68	77.09	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
408	9.04	156.12	78.87	77.25	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
409	9.06	156.47	79.07	77.40	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
410	9.08	156.83	79.26	77.56	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
411	9.10	157.18	79.46	77.72	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
412	9.12	157.54	79.66	77.88	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
413	9.14	157.90	79.85	78.05	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
414	9.16	158.26	80.05	78.21	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
415	9.18	158.62	80.25	78.38	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
416	9.20	158.98	80.44	78.54	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
417	9.22	159.34	80.64	78.70	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
418	9.24	159.70	80.83	78.86	0.92	0.121	1.38	0.088	1.00	1.00	0.088	No
419	9.26	160.05	81.03	79.02	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
420	9.28	160.41	81.23	79.18	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
421	9.30	160.76	81.42	79.34	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
422	9.32	161.12	81.62	79.51	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
423	9.34	161.48	81.82	79.67	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
424	9.36	161.84	82.01	79.83	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
425	9.38	162.20	82.21	79.99	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
426	9.40	162.56	82.40	80.15	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
427	9.42	162.92	82.60	80.32	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
428	9.44	163.28	82.80	80.49	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
429	9.46	163.65	82.99	80.65	0.92	0.121	1.38	0.088	1.00	1.00	2.000	Yes
430	9.48	164.01	83.19	80.82	0.91	0.121	1.38	0.088	1.00	1.00	2.000	Yes
431	9.50	164.36	83.39	80.98	0.91	0.121	1.38	0.088	1.00	1.00	0.088	No
432	9.52	164.72	83.58	81.14	0.91	0.121	1.38	0.088	1.00	1.00	0.088	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
433	9.54	165.08	83.78	81.30	0.91	0.121	1.38	0.088	1.00	1.00	0.088	No
434	9.56	165.43	83.97	81.46	0.91	0.121	1.38	0.088	1.00	1.00	0.088	No
435	9.58	165.79	84.17	81.62	0.91	0.121	1.38	0.088	1.00	1.00	0.088	No
436	9.60	166.15	84.37	81.78	0.91	0.121	1.38	0.088	1.00	1.00	0.088	No
437	9.62	166.51	84.56	81.95	0.91	0.120	1.38	0.088	1.00	1.00	0.088	No
438	9.64	166.87	84.76	82.11	0.91	0.120	1.38	0.088	1.00	1.00	0.088	No
439	9.66	167.23	84.95	82.27	0.91	0.120	1.38	0.088	1.00	1.00	0.088	No
440	9.68	167.59	85.15	82.44	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
441	9.70	167.95	85.35	82.60	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
442	9.72	168.31	85.54	82.77	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
443	9.74	168.67	85.74	82.93	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
444	9.76	169.03	85.94	83.10	0.91	0.120	1.38	0.087	1.00	1.00	2.000	Yes
445	9.78	169.40	86.13	83.26	0.91	0.120	1.38	0.087	1.00	1.00	2.000	Yes
446	9.80	169.76	86.33	83.43	0.91	0.120	1.38	0.087	1.00	1.00	2.000	Yes
447	9.82	170.12	86.52	83.60	0.91	0.120	1.38	0.087	1.00	1.00	2.000	Yes
448	9.84	170.49	86.72	83.77	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
449	9.86	170.85	86.92	83.93	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
450	9.88	171.22	87.11	84.10	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
451	9.90	171.58	87.31	84.27	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
452	9.92	171.95	87.51	84.44	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
453	9.94	172.31	87.70	84.61	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
454	9.96	172.67	87.90	84.77	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
455	9.98	173.03	88.09	84.94	0.91	0.120	1.38	0.087	1.00	1.00	0.087	No
456	10.00	173.39	88.29	85.10	0.90	0.120	1.38	0.087	1.00	1.00	0.087	No
457	10.02	173.75	88.49	85.26	0.90	0.120	1.38	0.087	1.00	1.00	0.087	No
458	10.04	174.11	88.68	85.43	0.90	0.120	1.38	0.087	1.00	1.00	0.087	No
459	10.06	174.47	88.88	85.59	0.90	0.120	1.38	0.087	1.00	1.00	2.000	Yes
460	10.08	174.83	89.07	85.76	0.90	0.120	1.38	0.087	1.00	1.00	2.000	Yes
461	10.10	175.19	89.27	85.92	0.90	0.120	1.38	0.087	1.00	1.00	2.000	Yes
462	10.12	175.56	89.47	86.09	0.90	0.120	1.38	0.087	1.00	1.00	2.000	Yes
463	10.14	175.92	89.66	86.26	0.90	0.120	1.38	0.087	1.00	1.00	2.000	Yes
464	10.16	176.29	89.86	86.43	0.90	0.120	1.38	0.087	1.00	1.00	2.000	Yes
465	10.18	176.65	90.06	86.60	0.90	0.120	1.38	0.087	1.00	1.00	2.000	Yes
466	10.20	177.01	90.25	86.76	0.90	0.119	1.38	0.087	1.00	1.00	0.087	No
467	10.22	177.38	90.45	86.93	0.90	0.119	1.38	0.087	1.00	1.00	0.087	No
468	10.24	177.74	90.64	87.10	0.90	0.119	1.38	0.087	1.00	1.00	0.087	No
469	10.26	178.10	90.84	87.26	0.90	0.119	1.38	0.087	1.00	1.00	0.087	No
470	10.28	178.46	91.04	87.43	0.90	0.119	1.38	0.087	1.00	1.00	2.000	Yes
471	10.30	178.82	91.23	87.59	0.90	0.119	1.38	0.087	1.00	1.00	2.000	Yes
472	10.32	179.18	91.43	87.75	0.90	0.119	1.38	0.087	1.00	1.00	2.000	Yes
473	10.34	179.55	91.63	87.92	0.90	0.119	1.38	0.087	1.00	1.00	2.000	Yes
474	10.36	179.91	91.82	88.09	0.90	0.119	1.38	0.087	1.00	1.00	2.000	Yes
475	10.38	180.27	92.02	88.25	0.90	0.119	1.38	0.087	1.00	1.00	2.000	Yes
476	10.40	180.63	92.21	88.42	0.90	0.119	1.38	0.087	1.00	1.00	2.000	Yes
477	10.42	180.99	92.41	88.58	0.90	0.119	1.38	0.086	1.00	1.00	2.000	Yes
478	10.44	181.35	92.61	88.75	0.90	0.119	1.38	0.086	1.00	1.00	2.000	Yes
479	10.46	181.71	92.80	88.91	0.90	0.119	1.38	0.086	1.00	1.00	2.000	Yes
480	10.48	182.07	93.00	89.07	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
481	10.50	182.43	93.20	89.23	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
482	10.52	182.79	93.39	89.40	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
483	10.54	183.15	93.59	89.56	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
484	10.56	183.51	93.78	89.73	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
485	10.58	183.87	93.98	89.89	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
486	10.60	184.24	94.18	90.06	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
487	10.62	184.61	94.37	90.23	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
488	10.64	184.97	94.57	90.40	0.89	0.119	1.38	0.086	1.00	1.00	2.000	Yes
489	10.66	185.34	94.76	90.57	0.89	0.118	1.38	0.086	1.00	1.00	2.000	Yes
490	10.68	185.70	94.96	90.74	0.89	0.118	1.38	0.086	1.00	1.00	2.000	Yes
491	10.70	186.06	95.16	90.90	0.89	0.118	1.38	0.086	1.00	1.00	2.000	Yes
492	10.72	186.41	95.35	91.06	0.89	0.118	1.38	0.086	1.00	1.00	2.000	Yes
493	10.74	186.77	95.55	91.22	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
494	10.76	187.13	95.75	91.39	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
495	10.78	187.49	95.94	91.55	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
496	10.80	187.85	96.14	91.71	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
497	10.82	188.21	96.33	91.87	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
498	10.84	188.56	96.53	92.03	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
499	10.86	188.92	96.73	92.19	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
500	10.88	189.27	96.92	92.35	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
501	10.90	189.63	97.12	92.51	0.89	0.118	1.38	0.086	1.00	1.00	0.086	No
502	10.92	189.98	97.32	92.66	0.88	0.118	1.38	0.086	1.00	1.00	0.086	No
503	10.94	190.32	97.51	92.81	0.88	0.118	1.38	0.086	1.00	1.00	0.086	No
504	10.96	190.67	97.71	92.96	0.88	0.118	1.38	0.086	1.00	1.00	0.086	No
505	10.98	191.01	97.90	93.11	0.88	0.118	1.38	0.086	1.00	1.00	0.086	No
506	11.00	191.36	98.10	93.26	0.88	0.118	1.38	0.086	1.00	1.00	0.086	No
507	11.02	191.71	98.30	93.41	0.88	0.118	1.38	0.086	1.00	1.00	0.086	No
508	11.04	192.06	98.49	93.56	0.88	0.118	1.38	0.086	1.00	1.00	0.086	No
509	11.06	192.40	98.69	93.71	0.88	0.118	1.38	0.085	1.00	1.00	0.085	No
510	11.08	192.74	98.88	93.85	0.88	0.118	1.38	0.085	1.00	1.00	2.000	Yes
511	11.10	193.08	99.08	94.00	0.88	0.118	1.38	0.085	1.00	1.00	2.000	Yes
512	11.12	193.42	99.28	94.15	0.88	0.117	1.38	0.085	1.00	1.00	2.000	Yes
513	11.14	193.77	99.47	94.30	0.88	0.117	1.38	0.085	1.00	1.00	2.000	Yes
514	11.16	194.12	99.67	94.45	0.88	0.117	1.38	0.085	1.00	1.00	2.000	Yes
515	11.18	194.47	99.87	94.60	0.88	0.117	1.38	0.085	1.00	1.00	2.000	Yes
516	11.20	194.82	100.06	94.76	0.88	0.117	1.38	0.085	1.00	1.00	2.000	Yes
517	11.22	195.18	100.26	94.92	0.88	0.117	1.38	0.085	1.00	1.00	2.000	Yes
518	11.24	195.53	100.45	95.08	0.88	0.117	1.38	0.085	1.00	1.00	0.085	No
519	11.26	195.89	100.65	95.24	0.88	0.117	1.38	0.085	1.00	1.00	0.085	No
520	11.28	196.25	100.85	95.40	0.88	0.117	1.38	0.085	1.00	1.00	0.085	No
521	11.30	196.61	101.04	95.57	0.88	0.117	1.38	0.085	1.00	1.00	2.000	Yes
522	11.32	196.97	101.24	95.73	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
523	11.34	197.33	101.44	95.89	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
524	11.36	197.69	101.63	96.06	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
525	11.38	198.05	101.83	96.22	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
526	11.40	198.41	102.02	96.39	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
527	11.42	198.77	102.22	96.55	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
528	11.44	199.12	102.42	96.71	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
529	11.46	199.48	102.61	96.87	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
530	11.48	199.83	102.81	97.02	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
531	11.50	200.18	103.01	97.17	0.87	0.117	1.38	0.085	1.00	1.00	2.000	Yes
532	11.52	200.53	103.20	97.33	0.87	0.116	1.38	0.085	1.00	1.00	2.000	Yes
533	11.54	200.87	103.40	97.48	0.87	0.116	1.38	0.085	1.00	1.00	2.000	Yes
534	11.56	201.22	103.59	97.63	0.87	0.116	1.38	0.085	1.00	1.00	2.000	Yes
535	11.58	201.58	103.79	97.79	0.87	0.116	1.38	0.085	1.00	1.00	0.085	No
536	11.60	201.93	103.99	97.94	0.87	0.116	1.38	0.084	1.00	1.00	0.084	No
537	11.62	202.28	104.18	98.10	0.87	0.116	1.38	0.084	1.00	1.00	0.084	No
538	11.64	202.63	104.38	98.25	0.87	0.116	1.38	0.084	1.00	1.00	0.084	No
539	11.66	202.97	104.57	98.40	0.87	0.116	1.38	0.084	1.00	1.00	0.084	No
540	11.68	203.32	104.77	98.55	0.87	0.116	1.38	0.084	1.00	1.00	0.084	No
541	11.70	203.67	104.97	98.70	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
542	11.72	204.01	105.16	98.85	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
543	11.74	204.36	105.36	99.00	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
544	11.76	204.70	105.56	99.15	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
545	11.78	205.04	105.75	99.29	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
546	11.80	205.39	105.95	99.44	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
547	11.82	205.72	106.14	99.58	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
548	11.84	206.06	106.34	99.72	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
549	11.86	206.40	106.54	99.87	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
550	11.88	206.74	106.73	100.01	0.86	0.116	1.38	0.084	1.00	1.00	0.084	No
551	11.90	207.08	106.93	100.15	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
552	11.92	207.41	107.13	100.29	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
553	11.94	207.75	107.32	100.42	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
554	11.96	208.08	107.52	100.56	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
555	11.98	208.42	107.71	100.70	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
556	12.00	208.75	107.91	100.84	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
557	12.02	209.09	108.11	100.98	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
558	12.04	209.43	108.30	101.12	0.86	0.115	1.38	0.084	1.00	1.00	0.084	No
559	12.06	209.76	108.50	101.27	0.85	0.115	1.38	0.084	1.00	1.00	0.084	No
560	12.08	210.10	108.69	101.41	0.85	0.115	1.38	0.084	1.00	1.00	0.084	No
561	12.10	210.44	108.89	101.55	0.85	0.115	1.38	0.084	1.00	1.00	0.084	No
562	12.12	210.79	109.09	101.70	0.85	0.115	1.38	0.084	1.00	1.00	0.084	No
563	12.14	211.13	109.28	101.85	0.85	0.115	1.38	0.083	1.00	1.00	0.083	No
564	12.16	211.48	109.48	102.00	0.85	0.115	1.38	0.083	1.00	1.00	0.083	No
565	12.18	211.83	109.68	102.15	0.85	0.115	1.38	0.083	1.00	1.00	0.083	No
566	12.20	212.18	109.87	102.30	0.85	0.115	1.38	0.083	1.00	1.00	0.083	No
567	12.22	212.52	110.07	102.46	0.85	0.115	1.38	0.083	1.00	1.00	0.083	No
568	12.24	212.87	110.26	102.60	0.85	0.115	1.38	0.083	1.00	1.00	0.083	No
569	12.26	213.20	110.46	102.74	0.85	0.115	1.38	0.083	1.00	1.00	0.083	No
570	12.28	213.54	110.66	102.88	0.85	0.114	1.38	0.083	1.00	1.00	0.083	No
571	12.30	213.88	110.85	103.03	0.85	0.114	1.38	0.083	1.00	1.00	0.083	No
572	12.32	214.22	111.05	103.17	0.85	0.114	1.38	0.083	1.00	1.00	0.083	No
573	12.34	214.57	111.25	103.32	0.85	0.114	1.38	0.083	1.00	1.00	0.083	No
574	12.36	214.91	111.44	103.47	0.85	0.114	1.38	0.083	1.00	1.00	0.083	No
575	12.38	215.25	111.64	103.61	0.85	0.114	1.38	0.083	1.00	1.00	0.083	No
576	12.40	215.59	111.83	103.76	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
577	12.42	215.93	112.03	103.90	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
578	12.44	216.27	112.23	104.04	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
579	12.46	216.60	112.42	104.17	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
580	12.48	216.93	112.62	104.31	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
581	12.50	217.26	112.82	104.44	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
582	12.52	217.59	113.01	104.57	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
583	12.54	217.91	113.21	104.71	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
584	12.56	218.24	113.40	104.84	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
585	12.58	218.57	113.60	104.97	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
586	12.60	218.90	113.80	105.11	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
587	12.62	219.23	113.99	105.24	0.84	0.114	1.38	0.083	1.00	1.00	0.083	No
588	12.64	219.56	114.19	105.37	0.84	0.113	1.38	0.082	1.00	1.00	0.082	No
589	12.66	219.89	114.38	105.50	0.84	0.113	1.38	0.082	1.00	1.00	0.082	No
590	12.68	220.22	114.58	105.64	0.84	0.113	1.38	0.082	1.00	1.00	0.082	No
591	12.70	220.55	114.78	105.77	0.84	0.113	1.38	0.082	1.00	1.00	0.082	No
592	12.72	220.88	114.97	105.91	0.84	0.113	1.38	0.082	1.00	1.00	0.082	No
593	12.74	221.21	115.17	106.04	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
594	12.76	221.54	115.37	106.18	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
595	12.78	221.87	115.56	106.31	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
596	12.80	222.20	115.76	106.44	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
597	12.82	222.53	115.95	106.58	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
598	12.84	222.86	116.15	106.71	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
599	12.86	223.19	116.35	106.84	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
600	12.88	223.52	116.54	106.98	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
601	12.90	223.85	116.74	107.11	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
602	12.92	224.18	116.94	107.24	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
603	12.94	224.50	117.13	107.37	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
604	12.96	224.83	117.33	107.51	0.83	0.113	1.38	0.082	1.00	1.00	0.082	No
605	12.98	225.16	117.52	107.64	0.83	0.112	1.38	0.082	1.00	1.00	0.082	No
606	13.00	225.49	117.72	107.77	0.83	0.112	1.38	0.082	1.00	1.00	0.082	No
607	13.02	225.82	117.92	107.90	0.83	0.112	1.38	0.082	1.00	1.00	0.082	No
608	13.04	226.15	118.11	108.04	0.83	0.112	1.38	0.082	1.00	1.00	0.082	No
609	13.06	226.48	118.31	108.17	0.82	0.112	1.38	0.082	1.00	1.00	0.082	No
610	13.08	226.81	118.50	108.30	0.82	0.112	1.38	0.082	1.00	1.00	0.082	No
611	13.10	227.14	118.70	108.44	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
612	13.12	227.47	118.90	108.57	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
613	13.14	227.80	119.09	108.70	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
614	13.16	228.13	119.29	108.84	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
615	13.18	228.46	119.49	108.97	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
616	13.20	228.79	119.68	109.11	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
617	13.22	229.12	119.88	109.25	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
618	13.24	229.46	120.07	109.38	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
619	13.26	229.80	120.27	109.52	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
620	13.28	230.13	120.47	109.67	0.82	0.112	1.38	0.081	1.00	1.00	0.081	No
621	13.30	230.47	120.66	109.81	0.82	0.111	1.38	0.081	1.00	1.00	0.081	No
622	13.32	230.81	120.86	109.95	0.82	0.111	1.38	0.081	1.00	1.00	0.081	No
623	13.34	231.15	121.06	110.09	0.82	0.111	1.38	0.081	1.00	1.00	0.081	No
624	13.36	231.49	121.25	110.24	0.82	0.111	1.38	0.081	1.00	1.00	0.081	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
625	13.38	231.84	121.45	110.40	0.81	0.111	1.38	0.081	1.00	1.00	0.081	No
626	13.40	232.20	121.64	110.56	0.81	0.111	1.38	0.081	1.00	1.00	0.081	No
627	13.42	232.57	121.84	110.73	0.81	0.111	1.38	0.081	1.00	1.00	0.081	No
628	13.44	232.95	122.04	110.91	0.81	0.111	1.38	0.081	1.00	1.00	0.081	No
629	13.46	233.32	122.23	111.09	0.81	0.111	1.38	0.081	1.00	1.00	0.081	No
630	13.48	233.71	122.43	111.28	0.81	0.111	1.38	0.080	1.00	1.00	0.080	No
631	13.50	234.09	122.63	111.47	0.81	0.111	1.38	0.080	1.00	1.00	0.080	No
632	13.52	234.48	122.82	111.66	0.81	0.111	1.38	0.080	1.00	1.00	0.080	No
633	13.54	234.87	123.02	111.85	0.81	0.110	1.38	0.080	1.00	1.00	0.080	No
634	13.56	235.25	123.21	112.04	0.81	0.110	1.38	0.080	1.00	1.00	0.080	No
635	13.58	235.64	123.41	112.23	0.81	0.110	1.38	0.080	1.00	1.00	0.080	No
636	13.60	236.03	123.61	112.42	0.81	0.110	1.38	0.080	1.00	1.00	0.080	No
637	13.62	236.42	123.80	112.62	0.81	0.110	1.38	0.080	1.00	1.00	0.080	No
638	13.64	236.82	124.00	112.82	0.81	0.110	1.38	0.080	1.00	1.00	0.080	No
639	13.66	237.22	124.19	113.03	0.81	0.110	1.38	0.080	1.00	1.00	0.080	No
640	13.68	237.62	124.39	113.23	0.80	0.110	1.38	0.080	1.00	1.00	0.080	No
641	13.70	238.03	124.59	113.44	0.80	0.110	1.38	0.080	1.00	1.00	0.080	No
642	13.72	238.43	124.78	113.64	0.80	0.110	1.38	0.080	1.00	1.00	0.080	No
643	13.74	238.82	124.98	113.85	0.80	0.109	1.38	0.080	1.00	1.00	0.080	No
644	13.76	239.22	125.18	114.05	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
645	13.78	239.62	125.37	114.25	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
646	13.80	240.02	125.57	114.45	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
647	13.82	240.42	125.76	114.65	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
648	13.84	240.82	125.96	114.86	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
649	13.86	241.22	126.16	115.06	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
650	13.88	241.62	126.35	115.27	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
651	13.90	242.01	126.55	115.46	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
652	13.92	242.41	126.75	115.66	0.80	0.109	1.38	0.079	1.00	1.00	0.079	No
653	13.94	242.80	126.94	115.86	0.80	0.108	1.38	0.079	1.00	1.00	0.079	No
654	13.96	243.20	127.14	116.06	0.80	0.108	1.38	0.079	1.00	1.00	0.079	No
655	13.98	243.60	127.33	116.27	0.79	0.108	1.38	0.079	1.00	1.00	0.079	No
656	14.00	244.00	127.53	116.47	0.79	0.108	1.38	0.079	1.00	1.00	0.079	No
657	14.02	244.41	127.73	116.68	0.79	0.108	1.38	0.079	1.00	1.00	0.079	No
658	14.04	244.81	127.92	116.89	0.79	0.108	1.38	0.078	1.00	1.00	0.078	No
659	14.06	245.22	128.12	117.11	0.79	0.108	1.38	0.078	1.00	1.00	0.078	No
660	14.08	245.64	128.31	117.33	0.79	0.108	1.38	0.078	1.00	1.00	0.078	No
661	14.10	246.06	128.51	117.55	0.79	0.108	1.38	0.078	1.00	1.00	0.078	No
662	14.12	246.49	128.71	117.78	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No
663	14.14	246.92	128.90	118.02	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No
664	14.16	247.35	129.10	118.25	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No
665	14.18	247.78	129.30	118.49	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No
666	14.20	248.21	129.49	118.72	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No
667	14.22	248.65	129.69	118.96	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No
668	14.24	249.08	129.88	119.19	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No
669	14.26	249.51	130.08	119.43	0.79	0.107	1.38	0.078	1.00	1.00	0.078	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	0.90	0.20	3.52	5.98	1.00	3.73	22.06	82.29	4.000	No	Yes	2.00
2	0.92	0.25	3.47	6.42	1.00	4.57	20.15	92.03	4.000	No	Yes	2.00
3	0.94	0.27	3.43	6.43	1.00	5.00	19.10	95.55	4.000	No	Yes	2.00
4	0.96	0.30	3.39	6.21	1.00	5.59	17.61	98.38	4.000	No	Yes	2.00
5	0.98	0.29	3.37	5.63	1.00	5.40	17.21	92.99	4.000	No	Yes	2.00
6	1.00	0.52	3.00	3.08	1.00	10.04	8.81	88.51	4.000	No	Yes	2.00
7	1.02	1.05	2.62	1.83	0.86	20.47	6.12	125.21	4.000	Yes	No	2.00
8	1.04	1.69	2.38	1.37	0.76	33.12	2.25	74.64	4.000	Yes	No	2.00
9	1.06	2.23	2.25	1.22	0.71	43.77	1.75	76.46	4.000	Yes	No	2.00
10	1.08	2.56	2.18	1.14	0.69	50.17	1.57	78.80	4.000	Yes	No	2.00
11	1.10	2.75	2.16	1.17	0.68	53.97	1.53	82.54	4.000	Yes	No	2.00
12	1.12	2.78	2.19	1.33	0.69	54.56	1.59	87.02	4.000	Yes	No	2.00
13	1.14	2.62	2.28	1.69	0.73	51.27	1.85	94.69	4.000	Yes	No	2.00
14	1.16	2.42	2.37	2.11	0.76	47.34	2.21	104.73	4.000	Yes	No	2.00
15	1.18	2.27	2.44	2.51	0.79	44.41	2.59	114.91	4.000	Yes	No	2.00
16	1.20	2.18	2.48	2.80	0.80	42.75	2.86	122.35	4.000	Yes	No	2.00
17	1.22	2.10	2.53	3.11	0.82	41.13	3.32	136.53	4.000	Yes	No	2.00
18	1.24	1.98	2.57	3.36	0.84	38.75	4.36	168.99	4.000	Yes	No	2.00
19	1.26	1.90	2.59	3.42	0.84	37.21	4.92	183.12	0.651	No	No	2.00
20	1.28	1.88	2.57	3.24	0.84	36.64	4.60	168.42	0.524	No	No	2.00
21	1.30	1.86	2.57	3.11	0.84	36.33	4.31	156.60	0.437	No	No	2.00
22	1.32	1.88	2.55	2.94	0.83	36.74	3.80	139.61	0.333	No	No	2.00
23	1.34	1.94	2.52	2.81	0.82	37.94	3.24	123.06	0.253	No	No	2.00
24	1.36	2.05	2.50	2.79	0.81	40.12	2.83	113.44	0.216	No	No	2.00
25	1.38	2.13	2.50	2.93	0.81	41.53	2.89	120.17	0.241	No	No	2.00
26	1.40	2.15	2.53	3.21	0.82	41.92	3.40	142.58	0.350	No	No	2.00
27	1.42	2.05	2.59	3.71	0.84	40.01	4.96	198.55	0.808	No	No	2.00
28	1.44	2.03	2.62	4.05	0.86	39.63	6.00	237.85	3.600	No	No	2.00
29	1.46	2.02	2.64	4.30	0.86	39.39	6.81	268.11	3.600	No	No	2.00
30	1.48	2.04	2.63	4.29	0.86	39.86	6.63	264.31	3.600	No	No	2.00
31	1.50	2.00	2.64	4.37	0.87	39.01	7.18	279.99	3.600	No	No	2.00
32	1.52	1.97	2.64	4.25	0.87	38.50	6.98	268.57	3.600	No	No	2.00
33	1.54	1.93	2.64	4.16	0.87	37.64	7.01	263.73	3.600	No	No	2.00
34	1.56	1.86	2.65	4.06	0.87	36.17	7.22	261.15	3.600	No	No	2.00
35	1.58	1.77	2.67	4.23	0.88	34.40	8.62	296.42	3.600	No	No	2.00
36	1.60	1.77	2.67	4.22	0.88	34.44	8.58	295.38	3.600	No	No	2.00
37	1.62	1.85	2.65	4.16	0.87	35.93	7.67	275.61	3.600	No	No	2.00
38	1.64	1.99	2.61	3.93	0.86	38.77	5.91	228.93	3.600	No	No	2.00
39	1.66	2.10	2.58	3.76	0.84	40.98	4.85	198.61	0.809	No	No	2.00
40	1.68	2.18	2.56	3.64	0.84	42.56	4.22	179.41	0.617	No	No	2.00
41	1.70	2.23	2.54	3.51	0.83	43.47	3.75	162.80	0.481	No	No	2.00
42	1.72	2.33	2.52	3.45	0.82	45.42	3.31	150.19	0.395	No	No	2.00
43	1.74	2.35	2.52	3.46	0.82	45.82	3.28	150.23	0.395	No	No	2.00
44	1.76	2.29	2.55	3.66	0.83	44.64	3.86	172.20	0.555	No	No	2.00
45	1.78	2.14	2.60	3.98	0.85	41.57	5.26	218.83	4.000	No	No	2.00
46	1.80	2.01	2.64	4.32	0.87	39.08	6.99	273.14	3.600	No	No	2.00
47	1.82	1.90	2.68	4.69	0.88	36.89	9.17	338.25	3.600	No	No	2.00
48	1.84	1.80	2.71	4.92	0.89	34.97	4.85	169.77	1.668	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	1.86	1.70	2.75	5.16	0.91	33.02	5.21	172.15	1.575	No	Yes	2.00
50	1.88	1.64	2.77	5.35	0.92	31.67	5.49	173.99	1.511	No	Yes	2.00
51	1.90	1.57	2.79	5.55	0.93	30.42	5.78	175.74	1.451	No	Yes	2.00
52	1.92	1.50	2.82	5.75	0.94	29.04	6.09	176.97	1.385	No	Yes	2.00
53	1.94	1.40	2.85	5.99	0.95	27.04	6.55	177.11	1.290	No	Yes	2.00
54	1.96	1.31	2.89	6.30	0.96	25.30	7.05	178.41	1.207	No	Yes	2.00
55	1.98	1.24	2.93	6.70	0.98	23.92	7.59	181.49	1.141	No	Yes	2.00
56	2.00	1.17	2.97	7.22	0.99	22.46	8.25	185.35	1.072	No	Yes	2.00
57	2.02	1.13	2.99	7.55	1.00	21.59	8.68	187.36	1.030	No	Yes	2.00
58	2.04	1.12	3.00	7.66	1.00	21.43	8.79	188.42	1.022	No	Yes	2.00
59	2.06	1.13	3.00	7.80	1.00	21.59	8.85	191.04	1.030	No	Yes	2.00
60	2.08	1.09	3.02	8.02	1.00	20.84	9.19	191.42	0.994	No	Yes	2.00
61	2.10	1.03	3.05	8.14	1.00	19.59	9.61	188.22	0.935	No	Yes	2.00
62	2.12	0.99	3.04	7.75	1.00	18.85	9.56	180.11	0.899	No	Yes	2.00
63	2.14	1.00	3.02	7.13	1.00	18.98	9.07	172.23	0.905	No	Yes	2.00
64	2.16	1.03	2.98	6.42	1.00	19.55	8.39	164.00	4.000	Yes	Yes	2.00
65	2.18	1.09	2.91	5.42	0.97	20.89	7.28	152.16	4.000	Yes	Yes	2.00
66	2.20	1.24	2.80	4.30	0.93	23.65	5.83	137.92	4.000	Yes	Yes	2.00
67	2.22	1.47	2.67	3.31	0.88	28.20	8.22	231.71	4.000	Yes	No	2.00
68	2.24	1.81	2.52	2.57	0.82	34.96	3.27	114.33	4.000	Yes	No	2.00
69	2.26	2.08	2.44	2.27	0.79	40.40	2.60	104.91	4.000	Yes	No	2.00
70	2.28	2.25	2.41	2.25	0.78	43.61	2.45	106.65	4.000	Yes	No	2.00
71	2.30	2.22	2.46	2.60	0.80	43.12	2.71	116.75	4.000	Yes	No	2.00
72	2.32	2.12	2.52	3.08	0.82	41.12	3.27	134.32	4.000	Yes	No	2.00
73	2.34	2.04	2.57	3.47	0.84	39.40	4.51	177.53	4.000	Yes	No	2.00
74	2.36	1.81	2.67	4.27	0.88	35.03	8.49	297.39	4.000	Yes	No	2.00
75	2.38	1.59	2.78	5.32	0.92	30.54	5.60	171.11	4.000	Yes	Yes	2.00
76	2.40	1.34	2.90	6.58	0.97	25.65	7.18	184.23	4.000	Yes	Yes	2.00
77	2.42	1.28	2.91	6.55	0.97	24.54	7.36	180.75	1.171	No	Yes	2.00
78	2.44	1.34	2.86	5.83	0.95	25.71	6.65	170.98	1.226	No	Yes	2.00
79	2.46	1.35	2.85	5.61	0.95	25.80	6.48	167.23	1.230	No	Yes	2.00
80	2.48	1.30	2.87	5.70	0.96	24.82	6.71	166.65	1.184	No	Yes	2.00
81	2.50	1.18	2.91	5.92	0.97	22.42	7.33	164.43	1.069	No	Yes	2.00
82	2.52	1.11	2.92	5.72	0.98	21.08	7.48	157.65	4.000	Yes	Yes	2.00
83	2.54	1.10	2.90	5.22	0.97	20.83	7.14	148.63	4.000	Yes	Yes	2.00
84	2.56	1.30	2.76	4.02	0.92	24.79	5.41	134.20	4.000	Yes	Yes	2.00
85	2.58	2.64	2.31	1.87	0.74	51.20	1.96	100.16	4.000	Yes	No	2.00
86	2.60	4.69	1.96	1.09	0.61	91.71	1.28	117.25	4.000	Yes	No	2.00
87	2.62	7.72	1.70	0.74	0.51	145.44	1.00	145.44	4.000	Yes	No	2.00
88	2.64	10.30	1.56	0.58	0.46	180.63	1.00	180.63	0.628	No	No	2.00
89	2.66	12.56	1.45	0.47	0.42	208.69	1.00	208.69	4.000	No	No	2.00
90	2.68	14.22	1.37	0.38	0.39	226.99	1.00	226.99	4.000	No	No	2.00
91	2.70	15.52	1.33	0.36	0.37	242.36	1.00	242.36	4.000	No	No	2.00
92	2.72	16.71	1.31	0.35	0.36	257.41	1.00	257.41	4.000	No	No	2.00
93	2.74	17.67	1.29	0.35	0.36	269.64	1.00	269.64	4.000	No	No	2.00
94	2.76	18.65	1.28	0.36	0.35	282.10	1.00	282.10	4.000	No	No	2.00
95	2.78	19.61	1.27	0.36	0.35	294.71	1.00	294.71	4.000	No	No	2.00
96	2.80	20.67	1.26	0.37	0.34	309.06	1.00	309.06	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	2.82	21.55	1.26	0.39	0.34	321.53	1.00	321.53	4.000	No	No	2.00
98	2.84	22.23	1.26	0.41	0.35	331.49	1.00	331.49	4.000	No	No	2.00
99	2.86	22.45	1.28	0.44	0.35	336.68	1.00	336.68	4.000	No	No	2.00
100	2.88	22.55	1.29	0.46	0.36	339.20	1.00	339.20	4.000	No	No	2.00
101	2.90	22.52	1.31	0.49	0.36	340.36	1.00	340.36	4.000	No	No	2.00
102	2.92	21.28	1.36	0.57	0.38	329.18	1.00	329.18	4.000	No	No	2.00
103	2.94	21.05	1.37	0.57	0.39	325.67	1.00	325.67	4.000	No	No	2.00
104	2.96	20.93	1.37	0.56	0.39	322.69	1.00	322.69	4.000	No	No	2.00
105	2.98	22.09	1.31	0.47	0.36	331.00	1.00	331.00	4.000	No	No	2.00
106	3.00	22.14	1.31	0.48	0.36	331.75	1.00	331.75	4.000	No	No	2.00
107	3.02	21.80	1.32	0.50	0.37	327.73	1.00	327.73	4.000	No	No	2.00
108	3.04	21.20	1.34	0.52	0.38	320.69	1.00	320.69	4.000	No	No	2.00
109	3.06	20.43	1.36	0.54	0.38	310.94	1.00	310.94	4.000	No	No	2.00
110	3.08	19.71	1.38	0.56	0.39	301.85	1.00	301.85	4.000	No	No	2.00
111	3.10	18.90	1.41	0.58	0.40	291.65	1.00	291.65	4.000	No	No	2.00
112	3.12	17.99	1.43	0.60	0.41	279.75	1.00	279.75	4.000	No	No	2.00
113	3.14	16.29	1.48	0.64	0.43	257.74	1.00	257.74	4.000	No	No	2.00
114	3.16	14.18	1.54	0.72	0.45	230.25	1.00	230.25	4.000	No	No	2.00
115	3.18	11.67	1.64	0.85	0.49	196.83	1.00	196.83	0.789	No	No	2.00
116	3.20	9.54	1.75	1.04	0.54	167.90	1.09	183.40	4.000	Yes	No	2.00
117	3.22	7.59	1.88	1.33	0.59	140.61	1.23	172.45	4.000	Yes	No	2.00
118	3.24	6.06	2.02	1.76	0.64	118.21	1.33	157.06	4.000	Yes	No	2.00
119	3.26	4.78	2.19	2.40	0.70	93.26	1.60	149.01	4.000	Yes	No	2.00
120	3.28	3.95	2.34	3.16	0.76	76.92	2.08	159.79	4.000	Yes	No	2.00
121	3.30	3.40	2.45	3.89	0.80	65.97	2.65	175.07	4.000	Yes	No	2.00
122	3.32	3.16	2.50	4.28	0.82	61.19	2.85	174.25	4.000	Yes	No	2.00
123	3.34	2.90	2.56	4.72	0.84	56.09	4.15	232.84	4.000	Yes	No	2.00
124	3.36	2.63	2.62	5.27	0.87	50.74	6.31	320.40	4.000	Yes	No	2.00
125	3.38	2.42	2.68	5.76	0.89	46.66	8.82	411.52	4.000	Yes	No	2.00
126	3.40	2.29	2.70	5.87	0.90	44.10	10.15	447.50	4.000	Yes	No	2.00
127	3.42	2.21	2.70	5.59	0.89	42.47	9.88	419.84	3.600	No	No	2.00
128	3.44	2.15	2.66	4.81	0.88	41.33	7.72	319.24	3.600	No	No	2.00
129	3.46	2.10	2.61	4.02	0.86	40.24	5.73	230.71	3.600	No	No	2.00
130	3.48	2.05	2.56	3.34	0.84	39.22	4.21	165.00	0.498	No	No	2.00
131	3.50	2.02	2.54	3.00	0.83	38.59	3.56	137.25	0.320	No	No	2.00
132	3.52	2.00	2.51	2.76	0.83	38.27	3.08	117.95	0.233	No	No	2.00
133	3.54	1.98	2.50	2.61	0.82	37.92	2.81	106.72	0.193	No	No	2.00
134	3.56	1.93	2.51	2.61	0.82	36.85	3.00	110.61	0.206	No	No	2.00
135	3.58	1.84	2.54	2.73	0.84	35.11	3.63	127.32	0.272	No	No	2.00
136	3.60	1.80	2.56	2.87	0.84	34.36	4.19	144.10	0.358	No	No	2.00
137	3.62	1.80	2.57	3.00	0.85	34.26	4.56	156.16	0.434	No	No	2.00
138	3.64	1.79	2.59	3.11	0.85	34.12	4.94	168.61	0.526	No	No	2.00
139	3.66	1.75	2.61	3.25	0.86	33.29	5.62	187.11	0.620	No	No	2.00
140	3.68	1.69	2.63	3.41	0.87	32.14	6.62	212.86	3.600	No	No	2.00
141	3.70	1.68	2.64	3.48	0.88	31.79	7.02	223.28	3.600	No	No	2.00
142	3.72	1.68	2.64	3.47	0.87	31.94	6.92	220.92	3.600	No	No	2.00
143	3.74	1.66	2.65	3.50	0.88	31.45	7.28	229.08	3.600	No	No	2.00
144	3.76	1.56	2.68	3.69	0.89	29.54	9.07	267.93	3.600	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	3.78	1.42	2.74	3.99	0.91	26.64	5.12	136.39	1.271	No	Yes	2.00
146	3.80	1.31	2.78	4.24	0.93	24.48	5.64	138.02	1.168	No	Yes	2.00
147	3.82	1.26	2.80	4.34	0.94	23.56	5.88	138.52	4.000	Yes	Yes	2.00
148	3.84	1.45	2.71	3.73	0.90	27.25	4.82	131.46	4.000	Yes	Yes	2.00
149	3.86	2.05	2.49	2.61	0.82	39.06	2.92	114.06	4.000	Yes	No	2.00
150	3.88	2.74	2.31	1.97	0.75	52.78	1.98	104.25	4.000	Yes	No	2.00
151	3.90	3.21	2.23	1.76	0.72	60.81	1.70	103.68	4.000	Yes	No	2.00
152	3.92	3.19	2.26	1.93	0.73	60.71	1.79	108.51	4.000	Yes	No	2.00
153	3.94	2.92	2.33	2.22	0.76	56.35	2.03	114.25	4.000	Yes	No	2.00
154	3.96	2.53	2.43	2.70	0.80	48.52	2.54	123.31	4.000	Yes	No	2.00
155	3.98	2.10	2.55	3.24	0.84	40.11	3.79	152.10	4.000	Yes	No	2.00
156	4.00	1.68	2.69	4.15	0.90	31.76	9.76	309.82	4.000	Yes	No	2.00
157	4.02	1.35	2.85	5.44	0.95	25.23	6.45	162.84	4.000	Yes	Yes	2.00
158	4.04	1.10	3.00	7.23	1.00	20.35	8.77	178.48	4.000	Yes	Yes	2.00
159	4.06	0.98	3.09	8.57	1.00	17.96	10.41	186.96	0.857	No	Yes	2.00
160	4.08	0.92	3.14	9.33	1.00	16.66	11.39	189.85	0.795	No	Yes	2.00
161	4.10	0.88	3.16	9.47	1.00	15.86	11.81	187.37	0.757	No	Yes	2.00
162	4.12	0.82	3.19	9.61	1.00	14.73	12.41	182.86	0.703	No	Yes	2.00
163	4.14	0.69	3.24	9.43	1.00	12.22	13.66	166.83	0.583	No	Yes	2.00
164	4.16	0.67	3.21	8.06	1.00	11.73	12.89	151.18	0.559	No	Yes	2.00
165	4.18	0.68	3.14	6.41	1.00	11.91	11.36	135.27	0.568	No	Yes	2.00
166	4.20	0.80	3.02	5.22	1.00	14.32	9.09	130.26	0.683	No	Yes	2.00
167	4.22	0.89	2.93	4.33	0.99	16.06	7.62	122.38	0.766	No	Yes	2.00
168	4.24	1.05	2.80	3.36	0.94	19.30	5.81	112.19	0.921	No	Yes	2.00
169	4.26	1.22	2.70	2.82	0.90	22.64	9.90	224.15	3.600	No	No	2.00
170	4.28	1.35	2.64	2.65	0.88	25.18	7.09	178.56	0.549	No	No	2.00
171	4.30	1.39	2.65	2.82	0.88	25.92	7.38	191.41	0.659	No	No	2.00
172	4.32	1.39	2.67	3.01	0.89	25.95	8.26	214.40	3.600	No	No	2.00
173	4.34	1.38	2.68	3.16	0.89	25.75	9.13	235.26	3.600	No	No	2.00
174	4.36	1.39	2.68	3.21	0.89	25.98	9.24	239.98	3.600	No	No	2.00
175	4.38	1.42	2.67	3.18	0.89	26.58	8.67	230.31	3.600	No	No	2.00
176	4.40	1.47	2.66	3.11	0.88	27.43	7.79	213.69	3.600	No	No	2.00
177	4.42	1.50	2.64	3.01	0.88	28.06	7.00	196.39	0.706	No	No	2.00
178	4.44	1.51	2.63	2.89	0.87	28.23	6.46	182.48	0.581	No	No	2.00
179	4.46	1.50	2.61	2.74	0.87	28.04	5.94	166.66	0.459	No	No	2.00
180	4.48	1.49	2.59	2.53	0.86	27.88	5.22	145.50	0.366	No	No	2.00
181	4.50	1.49	2.57	2.34	0.85	27.85	4.58	127.44	0.272	No	No	2.00
182	4.52	1.49	2.56	2.20	0.85	27.83	4.13	114.97	0.221	No	No	2.00
183	4.54	1.48	2.56	2.19	0.85	27.52	4.18	115.10	0.222	No	No	2.00
184	4.56	1.45	2.57	2.21	0.85	27.04	4.42	119.63	0.239	No	No	2.00
185	4.58	1.42	2.58	2.26	0.86	26.50	4.82	127.82	0.274	No	No	2.00
186	4.60	1.40	2.59	2.29	0.86	26.05	5.12	133.35	0.301	No	No	2.00
187	4.62	1.39	2.60	2.31	0.86	25.75	5.31	136.84	0.318	No	No	2.00
188	4.64	1.38	2.60	2.29	0.86	25.56	5.35	136.88	0.319	No	No	2.00
189	4.66	1.39	2.59	2.25	0.86	25.64	5.14	131.79	0.293	No	No	2.00
190	4.68	1.41	2.58	2.17	0.86	25.92	4.72	122.41	0.251	No	No	2.00
191	4.70	1.44	2.56	2.08	0.85	26.27	4.28	112.39	0.212	No	No	2.00
192	4.72	1.46	2.55	2.01	0.85	26.39	3.98	104.93	0.187	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	4.74	1.46	2.55	1.97	0.84	26.33	3.86	101.53	0.177	No	No	2.00
194	4.76	1.46	2.55	1.94	0.84	26.22	3.80	99.73	0.172	No	No	2.00
195	4.78	1.45	2.55	1.96	0.85	26.13	3.92	102.30	0.180	No	No	2.00
196	4.80	1.44	2.56	2.03	0.85	25.94	4.20	108.84	0.200	No	No	2.00
197	4.82	1.43	2.57	2.11	0.85	25.72	4.58	117.89	0.232	No	No	2.00
198	4.84	1.43	2.58	2.19	0.86	25.75	4.85	124.86	0.261	No	No	2.00
199	4.86	1.46	2.58	2.24	0.86	26.19	4.86	127.28	0.272	No	No	2.00
200	4.88	1.50	2.58	2.27	0.86	26.85	4.71	126.56	0.269	No	No	2.00
201	4.90	1.53	2.57	2.29	0.85	27.33	4.58	125.30	0.263	No	No	2.00
202	4.92	1.55	2.57	2.27	0.85	27.49	4.48	123.27	0.254	No	No	2.00
203	4.94	1.54	2.58	2.33	0.86	27.44	4.71	129.13	0.280	No	No	2.00
204	4.96	1.54	2.59	2.40	0.86	27.36	4.99	136.50	0.317	No	No	2.00
205	4.98	1.54	2.59	2.47	0.86	27.40	5.20	142.60	0.350	No	No	2.00
206	5.00	1.54	2.60	2.47	0.86	27.33	5.26	143.74	0.356	No	No	2.00
207	5.02	1.54	2.60	2.50	0.87	27.13	5.43	147.36	0.340	No	No	2.00
208	5.04	1.52	2.61	2.52	0.87	26.78	5.69	152.32	0.368	No	No	2.00
209	5.06	1.51	2.61	2.50	0.87	26.63	5.68	151.28	0.362	No	No	2.00
210	5.08	1.52	2.60	2.43	0.87	26.67	5.38	143.50	0.355	No	No	2.00
211	5.10	1.55	2.59	2.34	0.86	26.97	4.91	132.46	0.296	No	No	2.00
212	5.12	1.60	2.56	2.23	0.85	27.62	4.28	118.20	0.234	No	No	2.00
213	5.14	1.66	2.54	2.13	0.84	28.43	3.70	105.28	0.189	No	No	2.00
214	5.16	1.71	2.52	2.07	0.84	29.20	3.31	96.61	0.164	No	No	1.97
215	5.18	1.75	2.51	2.03	0.83	29.66	3.09	91.70	0.152	No	No	1.82
216	5.20	1.77	2.51	2.00	0.83	29.96	2.94	88.23	0.144	No	No	1.73
217	5.22	1.79	2.50	1.96	0.83	30.12	2.81	84.68	0.136	No	No	1.64
218	5.24	1.78	2.50	1.96	0.83	29.91	2.86	85.60	0.138	No	No	1.66
219	5.26	1.75	2.51	2.00	0.83	29.48	3.07	90.40	0.149	No	No	1.78
220	5.28	1.71	2.53	2.09	0.84	28.77	3.50	100.71	0.175	No	No	2.00
221	5.30	1.66	2.56	2.25	0.85	28.05	4.21	117.96	0.233	No	No	2.00
222	5.32	1.60	2.60	2.45	0.86	27.14	5.25	142.51	0.349	No	No	2.00
223	5.34	1.54	2.63	2.67	0.88	26.21	6.58	172.41	0.501	No	No	2.00
224	5.36	1.55	2.63	2.66	0.88	26.26	6.51	170.83	0.489	No	No	2.00
225	5.38	1.54	2.63	2.65	0.88	26.15	6.52	170.62	0.488	No	No	2.00
226	5.40	1.53	2.63	2.61	0.88	25.78	6.58	169.56	0.480	No	No	2.00
227	5.42	1.44	2.66	2.75	0.89	24.32	8.15	198.18	0.724	No	No	2.00
228	5.44	1.37	2.69	2.84	0.90	23.15	9.52	220.36	3.600	No	No	2.00
229	5.46	1.31	2.71	2.89	0.91	22.19	4.79	106.34	1.058	No	Yes	2.00
230	5.48	1.27	2.72	2.89	0.91	21.44	4.92	105.46	1.023	No	Yes	2.00
231	5.50	1.24	2.73	2.85	0.92	20.80	5.00	103.96	0.992	No	Yes	2.00
232	5.52	1.21	2.73	2.81	0.92	20.32	5.04	102.43	0.969	No	Yes	2.00
233	5.54	1.18	2.74	2.83	0.92	19.74	5.18	102.24	0.942	No	Yes	2.00
234	5.56	1.14	2.76	2.92	0.93	19.00	5.42	102.97	0.906	No	Yes	2.00
235	5.58	1.09	2.79	3.04	0.94	18.19	5.73	104.29	0.868	No	Yes	2.00
236	5.60	1.02	2.82	3.17	0.95	17.09	6.14	105.02	0.815	No	Yes	2.00
237	5.62	0.95	2.86	3.31	0.97	15.88	6.64	105.36	0.757	No	Yes	2.00
238	5.64	0.83	2.94	3.74	1.00	13.89	7.78	108.03	0.663	No	Yes	2.00
239	5.66	0.72	3.04	4.45	1.00	11.68	9.54	111.44	0.557	No	Yes	2.00
240	5.68	0.61	3.16	5.41	1.00	9.59	11.91	114.24	0.457	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	5.70	0.61	3.15	5.18	1.00	9.61	11.65	111.97	0.458	No	Yes	2.00
242	5.72	0.70	3.04	4.09	1.00	11.19	9.41	105.32	0.534	No	Yes	2.00
243	5.74	0.81	2.91	3.11	0.98	13.19	7.32	96.59	0.629	No	Yes	2.00
244	5.76	0.88	2.85	2.72	0.96	14.22	6.46	91.84	0.678	No	Yes	2.00
245	5.78	0.90	2.84	2.65	0.96	14.38	6.32	90.96	0.686	No	Yes	2.00
246	5.80	0.92	2.82	2.58	0.95	14.69	6.14	90.10	0.701	No	Yes	2.00
247	5.82	0.95	2.79	2.40	0.94	15.21	5.76	87.55	0.726	No	Yes	2.00
248	5.84	1.00	2.76	2.22	0.93	15.87	5.34	84.75	0.757	No	Yes	2.00
249	5.86	1.02	2.76	2.29	0.93	16.22	5.33	86.52	0.774	No	Yes	2.00
250	5.88	1.02	2.78	2.56	0.94	16.27	5.66	92.15	0.776	No	Yes	2.00
251	5.90	1.01	2.82	2.94	0.95	16.11	6.15	99.10	0.768	No	Yes	2.00
252	5.92	1.01	2.83	3.06	0.96	16.10	6.29	101.27	0.768	No	Yes	2.00
253	5.94	1.01	2.83	3.00	0.95	16.15	6.21	100.30	0.770	No	Yes	2.00
254	5.96	1.03	2.81	2.84	0.95	16.31	5.98	97.58	0.778	No	Yes	2.00
255	5.98	1.04	2.80	2.76	0.94	16.41	5.86	96.15	0.783	No	Yes	2.00
256	6.00	1.07	2.78	2.64	0.94	16.74	5.64	94.36	0.799	No	Yes	2.00
257	6.02	1.11	2.75	2.44	0.93	17.32	5.26	91.11	0.826	No	Yes	2.00
258	6.04	1.18	2.71	2.28	0.91	18.30	4.84	88.65	0.873	No	Yes	2.00
259	6.06	1.23	2.69	2.18	0.90	19.11	9.36	178.90	0.551	No	No	2.00
260	6.08	1.26	2.69	2.29	0.90	19.55	9.63	188.38	0.632	No	No	2.00
261	6.10	1.25	2.73	2.60	0.92	19.39	5.00	96.91	0.925	No	Yes	2.00
262	6.12	1.22	2.76	2.94	0.93	19.11	5.42	103.56	0.911	No	Yes	2.00
263	6.14	1.21	2.79	3.22	0.94	18.92	5.75	108.81	0.903	No	Yes	2.00
264	6.16	1.20	2.81	3.46	0.95	18.76	6.03	113.15	0.895	No	Yes	2.00
265	6.18	1.19	2.84	3.83	0.96	18.63	6.43	119.76	0.889	No	Yes	2.00
266	6.20	1.18	2.87	4.17	0.97	18.58	6.76	125.56	0.886	No	Yes	2.00
267	6.22	1.20	2.88	4.39	0.97	18.85	6.90	130.03	0.899	No	Yes	2.00
268	6.24	1.23	2.87	4.33	0.97	19.33	6.73	130.05	0.922	No	Yes	2.00
269	6.26	1.26	2.85	4.25	0.97	19.78	6.55	129.61	0.944	No	Yes	2.00
270	6.28	1.26	2.86	4.33	0.97	19.69	6.64	130.71	0.939	No	Yes	2.00
271	6.30	1.25	2.88	4.54	0.97	19.47	6.88	133.87	0.929	No	Yes	2.00
272	6.32	1.23	2.89	4.62	0.98	19.22	7.01	134.77	0.917	No	Yes	2.00
273	6.34	1.24	2.87	4.43	0.97	19.29	6.83	131.71	0.920	No	Yes	2.00
274	6.36	1.25	2.87	4.34	0.97	19.27	6.75	130.03	0.919	No	Yes	2.00
275	6.38	1.30	2.84	4.17	0.96	20.01	6.43	128.63	0.954	No	Yes	2.00
276	6.40	1.38	2.81	3.89	0.95	21.19	5.93	125.63	1.011	No	Yes	2.00
277	6.42	1.39	2.79	3.70	0.94	21.18	5.75	121.74	1.010	No	Yes	2.00
278	6.44	1.29	2.82	3.77	0.96	19.54	6.16	120.38	0.932	No	Yes	2.00
279	6.46	1.12	2.88	3.82	0.98	16.89	6.87	115.97	0.806	No	Yes	2.00
280	6.48	1.01	2.91	3.80	0.99	15.11	7.40	111.85	0.721	No	Yes	2.00
281	6.50	0.94	2.94	3.87	1.00	13.99	7.88	110.21	0.667	No	Yes	2.00
282	6.52	0.90	2.99	4.33	1.00	13.25	8.67	114.92	0.632	No	Yes	2.00
283	6.54	0.88	3.03	4.77	1.00	12.87	9.29	119.55	0.614	No	Yes	2.00
284	6.56	0.88	3.05	5.14	1.00	12.89	9.65	124.38	0.615	No	Yes	2.00
285	6.58	0.89	3.05	5.24	1.00	12.97	9.70	125.88	0.619	No	Yes	2.00
286	6.60	0.94	3.02	4.98	1.00	13.75	9.11	125.22	0.656	No	Yes	2.00
287	6.62	0.98	2.97	4.49	1.00	14.41	8.36	120.51	0.687	No	Yes	2.00
288	6.64	0.99	2.97	4.40	1.00	14.54	8.22	119.52	0.694	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	6.66	0.96	2.99	4.64	1.00	13.99	8.67	121.36	0.667	No	Yes	2.00
290	6.68	0.91	3.04	5.11	1.00	13.15	9.50	124.96	0.627	No	Yes	2.00
291	6.70	0.88	3.07	5.40	1.00	12.63	10.03	126.71	0.603	No	Yes	2.00
292	6.72	0.84	3.11	5.70	1.00	11.88	10.72	127.27	0.567	No	Yes	2.00
293	6.74	0.80	3.13	5.69	1.00	11.15	11.13	124.16	0.532	No	Yes	2.00
294	6.76	0.75	3.15	5.74	1.00	10.42	11.66	121.44	0.497	No	Yes	2.00
295	6.78	0.71	3.18	5.82	1.00	9.78	12.20	119.27	0.466	No	Yes	2.00
296	6.80	0.68	3.21	6.16	1.00	9.22	13.00	119.90	0.440	No	Yes	2.00
297	6.82	0.67	3.23	6.34	1.00	8.93	13.43	119.98	0.426	No	Yes	2.00
298	6.84	0.66	3.23	6.15	1.00	8.78	13.38	117.50	0.419	No	Yes	2.00
299	6.86	0.63	3.24	6.09	1.00	8.33	13.74	114.54	0.398	No	Yes	2.00
300	6.88	0.58	3.29	6.42	1.00	7.53	14.97	112.76	0.359	No	Yes	2.00
301	6.90	0.53	3.36	6.98	1.00	6.63	16.78	111.18	0.316	No	Yes	2.00
302	6.92	0.50	3.38	7.03	1.00	6.19	17.53	108.46	0.295	No	Yes	2.00
303	6.94	0.50	3.37	6.43	1.00	6.09	16.99	103.52	0.291	No	Yes	2.00
304	6.96	0.50	3.34	5.88	1.00	6.14	16.26	99.77	0.293	No	Yes	2.00
305	6.98	0.52	3.30	5.24	1.00	6.35	15.12	96.09	0.303	No	Yes	2.00
306	7.00	0.53	3.27	4.89	1.00	6.56	14.37	94.31	0.313	No	Yes	2.00
307	7.02	0.55	3.23	4.42	1.00	6.77	13.48	91.27	0.323	No	Yes	2.00
308	7.04	0.56	3.21	4.18	1.00	6.92	12.96	89.73	0.330	No	Yes	2.00
309	7.06	0.58	3.17	3.81	1.00	7.19	12.15	87.37	0.343	No	Yes	2.00
310	7.08	0.60	3.13	3.53	1.00	7.62	11.30	86.13	0.364	No	Yes	2.00
311	7.10	0.63	3.10	3.29	1.00	8.09	10.52	85.18	0.386	No	Yes	2.00
312	7.12	0.66	3.08	3.20	1.00	8.41	10.13	85.22	0.401	No	Yes	2.00
313	7.14	0.66	3.08	3.27	1.00	8.41	10.23	85.98	0.401	No	Yes	2.00
314	7.16	0.64	3.10	3.35	1.00	8.15	10.56	86.01	0.389	No	Yes	2.00
315	7.18	0.63	3.11	3.36	1.00	7.89	10.81	85.27	0.376	No	Yes	2.00
316	7.20	0.62	3.10	3.23	1.00	7.80	10.70	83.40	0.372	No	Yes	2.00
317	7.22	0.63	3.09	3.06	1.00	7.90	10.36	81.80	0.377	No	Yes	2.00
318	7.24	0.64	3.08	3.00	1.00	7.96	10.21	81.25	0.380	No	Yes	2.00
319	7.26	0.64	3.08	2.99	1.00	8.01	10.15	81.36	0.382	No	Yes	2.00
320	7.28	0.64	3.08	3.00	1.00	8.02	10.16	81.51	0.383	No	Yes	2.00
321	7.30	0.65	3.06	2.92	1.00	8.20	9.89	81.05	0.391	No	Yes	2.00
322	7.32	0.68	3.03	2.76	1.00	8.61	9.32	80.27	0.411	No	Yes	2.00
323	7.34	0.72	2.99	2.62	1.00	9.23	8.68	80.04	0.440	No	Yes	2.00
324	7.36	0.75	2.98	2.63	1.00	9.55	8.47	80.90	0.455	No	Yes	2.00
325	7.38	0.75	3.00	2.80	1.00	9.56	8.73	83.40	0.456	No	Yes	2.00
326	7.40	0.74	3.00	2.79	1.00	9.41	8.80	82.79	0.449	No	Yes	2.00
327	7.42	0.76	2.97	2.62	1.00	9.75	8.33	81.23	0.465	No	Yes	2.00
328	7.44	0.82	2.92	2.34	0.99	10.58	7.45	78.84	0.505	No	Yes	2.00
329	7.46	0.89	2.88	2.27	0.98	11.58	6.87	79.60	0.552	No	Yes	2.00
330	7.48	0.95	2.85	2.28	0.97	12.35	6.56	81.06	0.589	No	Yes	2.00
331	7.50	0.99	2.84	2.30	0.97	12.87	6.38	82.16	0.614	No	Yes	2.00
332	7.52	1.01	2.84	2.33	0.96	13.14	6.33	83.14	0.627	No	Yes	2.00
333	7.54	1.02	2.84	2.41	0.97	13.22	6.41	84.80	0.631	No	Yes	2.00
334	7.56	1.00	2.86	2.50	0.97	12.96	6.63	85.87	0.618	No	Yes	2.00
335	7.58	0.96	2.88	2.59	0.98	12.47	6.94	86.54	0.595	No	Yes	2.00
336	7.60	0.93	2.90	2.67	0.99	11.95	7.27	86.93	0.570	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	7.62	0.90	2.93	2.83	1.00	11.62	7.63	88.69	0.554	No	Yes	2.00
338	7.64	0.90	2.95	2.97	1.00	11.46	7.89	90.48	0.547	No	Yes	2.00
339	7.66	0.90	2.94	2.96	1.00	11.57	7.84	90.68	0.552	No	Yes	2.00
340	7.68	0.93	2.92	2.85	1.00	11.88	7.54	89.62	0.567	No	Yes	2.00
341	7.70	0.97	2.89	2.69	0.99	12.41	7.11	88.15	0.592	No	Yes	2.00
342	7.72	1.00	2.88	2.63	0.98	12.76	6.88	87.82	0.609	No	Yes	2.00
343	7.74	1.02	2.87	2.62	0.98	12.99	6.77	87.96	0.620	No	Yes	2.00
344	7.76	1.00	2.89	2.75	0.98	12.79	7.02	89.86	0.610	No	Yes	2.00
345	7.78	1.00	2.88	2.64	0.98	12.73	6.90	87.82	4.000	Yes	Yes	2.00
346	7.80	1.12	2.79	2.20	0.95	14.30	5.76	82.41	4.000	Yes	Yes	2.00
347	7.82	1.41	2.65	1.72	0.89	17.99	7.43	133.68	4.000	Yes	No	2.00
348	7.84	2.07	2.44	1.30	0.81	26.38	2.62	69.10	4.000	Yes	No	2.00
349	7.86	2.54	2.36	1.22	0.78	32.32	2.16	69.71	4.000	Yes	No	2.00
350	7.88	2.78	2.32	1.22	0.77	35.35	2.01	71.20	4.000	Yes	No	2.00
351	7.90	2.55	2.38	1.39	0.79	32.55	2.30	74.76	4.000	Yes	No	2.00
352	7.92	2.30	2.47	1.70	0.83	29.50	2.78	82.06	4.000	Yes	No	2.00
353	7.94	2.03	2.58	2.22	0.87	26.15	4.80	125.57	4.000	Yes	No	2.00
354	7.96	1.84	2.68	2.80	0.90	23.80	8.79	209.14	4.000	Yes	No	2.00
355	7.98	1.76	2.72	3.10	0.92	22.84	4.90	111.82	4.000	Yes	Yes	2.00
356	8.00	1.88	2.70	3.10	0.91	24.38	9.91	241.49	3.600	No	No	2.00
357	8.02	2.08	2.65	2.99	0.90	26.82	7.61	204.08	3.600	No	No	2.00
358	8.04	2.21	2.63	2.94	0.89	28.47	6.55	186.33	0.614	No	No	2.00
359	8.06	2.07	2.65	2.97	0.90	26.69	7.60	202.86	3.600	No	No	2.00
360	8.08	1.84	2.70	3.03	0.91	23.54	4.72	111.03	1.123	No	Yes	2.00
361	8.10	1.63	2.75	3.07	0.93	20.74	5.23	108.40	0.990	No	Yes	2.00
362	8.12	1.60	2.75	2.98	0.93	20.24	5.23	105.86	0.965	No	Yes	2.00
363	8.14	1.66	2.73	2.96	0.93	21.01	5.07	106.50	1.002	No	Yes	2.00
364	8.16	1.83	2.69	2.90	0.91	23.19	9.85	228.46	3.600	No	No	2.00
365	8.18	2.04	2.65	2.84	0.90	25.93	7.51	194.83	0.691	No	No	2.00
366	8.20	2.10	2.65	2.88	0.89	26.59	7.27	193.32	0.677	No	No	2.00
367	8.22	1.93	2.68	2.98	0.91	24.40	9.24	225.46	3.600	No	No	2.00
368	8.24	1.61	2.76	3.10	0.94	20.22	5.36	108.35	0.965	No	Yes	2.00
369	8.26	1.36	2.82	3.07	0.96	16.83	6.10	102.70	0.803	No	Yes	2.00
370	8.28	1.22	2.85	2.97	0.97	14.91	6.54	97.47	0.711	No	Yes	2.00
371	8.30	1.20	2.85	2.87	0.97	14.66	6.50	95.30	4.000	Yes	Yes	2.00
372	8.32	1.28	2.80	2.60	0.95	15.60	5.90	91.97	4.000	Yes	Yes	2.00
373	8.34	1.48	2.71	2.17	0.92	18.09	4.77	86.23	4.000	Yes	Yes	2.00
374	8.36	1.85	2.58	1.80	0.87	22.59	4.76	107.47	4.000	Yes	No	2.00
375	8.38	2.27	2.48	1.59	0.83	27.76	2.82	78.18	4.000	Yes	No	2.00
376	8.40	2.61	2.41	1.51	0.81	31.96	2.44	78.02	4.000	Yes	No	2.00
377	8.42	2.67	2.41	1.52	0.80	32.67	2.41	78.75	4.000	Yes	No	2.00
378	8.44	2.51	2.44	1.62	0.82	30.63	2.62	80.35	4.000	Yes	No	2.00
379	8.46	2.18	2.54	1.94	0.85	26.60	3.66	97.42	4.000	Yes	No	2.00
380	8.48	1.83	2.63	2.17	0.89	22.31	6.59	147.11	4.000	Yes	No	2.00
381	8.50	1.70	2.66	2.16	0.90	20.52	7.88	161.75	4.000	Yes	No	2.00
382	8.52	2.06	2.51	1.54	0.84	24.79	2.97	73.52	4.000	Yes	No	2.00
383	8.54	2.63	2.37	1.25	0.79	31.67	2.22	70.32	4.000	Yes	No	2.00
384	8.56	2.99	2.31	1.17	0.77	35.85	1.96	70.26	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	8.58	2.83	2.34	1.25	0.78	33.87	2.10	71.28	4.000	Yes	No	2.00
386	8.60	2.47	2.42	1.38	0.81	29.60	2.47	73.10	4.000	Yes	No	2.00
387	8.62	2.20	2.51	1.70	0.84	26.43	2.98	78.62	4.000	Yes	No	2.00
388	8.64	2.02	2.60	2.16	0.88	24.24	5.43	131.55	4.000	Yes	No	2.00
389	8.66	1.81	2.70	2.72	0.92	21.71	4.71	102.20	4.000	Yes	Yes	2.00
390	8.68	1.66	2.75	2.99	0.94	19.94	5.30	105.63	4.000	Yes	Yes	2.00
391	8.70	1.60	2.77	3.02	0.94	19.15	5.50	105.26	0.914	No	Yes	2.00
392	8.72	1.66	2.75	2.89	0.93	19.80	5.23	103.54	0.944	No	Yes	2.00
393	8.74	1.70	2.73	2.79	0.93	20.27	5.03	102.00	0.967	No	Yes	2.00
394	8.76	1.68	2.73	2.72	0.93	19.96	5.02	100.20	0.952	No	Yes	2.00
395	8.78	1.69	2.70	2.44	0.92	20.00	10.15	202.88	3.600	No	No	2.00
396	8.80	1.79	2.65	2.14	0.90	21.09	7.32	154.28	0.379	No	No	2.00
397	8.82	1.97	2.59	1.97	0.88	23.23	5.16	119.97	0.241	No	No	2.00
398	8.84	2.13	2.57	1.99	0.87	25.09	4.40	110.41	0.205	No	No	2.00
399	8.86	2.13	2.58	2.12	0.87	25.11	4.88	122.61	0.251	No	No	2.00
400	8.88	2.03	2.62	2.25	0.88	23.86	6.04	144.17	0.323	No	No	2.00
401	8.90	1.86	2.66	2.36	0.90	21.73	8.03	174.43	0.516	No	No	2.00
402	8.92	1.81	2.68	2.40	0.91	21.13	8.79	185.65	0.608	No	No	2.00
403	8.94	1.85	2.67	2.37	0.90	21.62	8.21	177.47	4.000	Yes	No	2.00
404	8.96	1.95	2.64	2.34	0.90	22.73	7.18	163.19	4.000	Yes	No	2.00
405	8.98	2.06	2.62	2.33	0.89	24.01	6.30	151.24	4.000	Yes	No	2.00
406	9.00	2.47	2.53	2.08	0.85	28.89	3.42	98.87	4.000	Yes	No	2.00
407	9.02	3.06	2.39	1.60	0.80	35.61	2.32	82.58	4.000	Yes	No	2.00
408	9.04	3.57	2.29	1.32	0.76	41.37	1.88	77.76	4.000	Yes	No	2.00
409	9.06	3.63	2.24	1.13	0.74	41.91	1.74	72.73	4.000	Yes	No	2.00
410	9.08	3.37	2.30	1.29	0.77	38.93	1.94	75.33	4.000	Yes	No	2.00
411	9.10	3.02	2.38	1.53	0.80	34.94	2.30	80.20	4.000	Yes	No	2.00
412	9.12	2.72	2.48	1.96	0.84	31.56	2.88	90.75	4.000	Yes	No	2.00
413	9.14	2.55	2.55	2.35	0.86	29.61	4.01	118.87	4.000	Yes	No	2.00
414	9.16	2.42	2.61	2.72	0.88	28.02	5.87	164.46	4.000	Yes	No	2.00
415	9.18	2.21	2.67	3.04	0.91	25.61	8.67	221.93	4.000	Yes	No	2.00
416	9.20	2.02	2.73	3.28	0.93	23.31	4.99	116.40	4.000	Yes	Yes	2.00
417	9.22	1.88	2.76	3.39	0.94	21.56	5.39	116.32	4.000	Yes	Yes	2.00
418	9.24	1.85	2.77	3.36	0.94	21.07	5.45	114.84	1.005	No	Yes	2.00
419	9.26	1.84	2.75	3.15	0.94	20.92	5.28	110.42	4.000	Yes	Yes	2.00
420	9.28	1.92	2.71	2.84	0.92	21.80	4.81	104.79	4.000	Yes	Yes	2.00
421	9.30	2.28	2.61	2.41	0.88	25.89	5.64	146.13	4.000	Yes	No	2.00
422	9.32	2.71	2.52	2.17	0.85	30.86	3.19	98.57	4.000	Yes	No	2.00
423	9.34	2.94	2.46	1.94	0.83	33.47	2.73	91.28	4.000	Yes	No	2.00
424	9.36	2.85	2.47	1.91	0.83	32.37	2.77	89.68	4.000	Yes	No	2.00
425	9.38	2.65	2.51	1.98	0.84	29.92	2.90	86.88	4.000	Yes	No	2.00
426	9.40	2.50	2.57	2.36	0.87	28.34	4.46	126.38	4.000	Yes	No	2.00
427	9.42	2.30	2.66	2.93	0.90	25.99	7.88	204.87	4.000	Yes	No	2.00
428	9.44	2.08	2.75	3.60	0.94	23.47	5.25	123.26	4.000	Yes	Yes	2.00
429	9.46	1.87	2.82	4.12	0.97	21.03	6.16	129.53	4.000	Yes	Yes	2.00
430	9.48	1.76	2.85	4.19	0.98	19.68	6.52	128.32	4.000	Yes	Yes	2.00
431	9.50	1.70	2.85	4.01	0.98	18.91	6.53	123.42	0.902	No	Yes	2.00
432	9.52	1.69	2.83	3.70	0.97	18.70	6.28	117.44	0.892	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
433	9.54	1.75	2.79	3.30	0.95	19.32	5.74	110.99	0.922	No	Yes	2.00
434	9.56	2.03	2.69	2.77	0.92	22.50	9.72	218.81	3.600	No	No	2.00
435	9.58	2.35	2.60	2.41	0.88	26.08	5.57	145.36	0.329	No	No	2.00
436	9.60	2.61	2.54	2.20	0.86	29.02	3.75	108.94	0.200	No	No	2.00
437	9.62	2.69	2.53	2.14	0.85	29.89	3.33	99.63	0.172	No	No	1.96
438	9.64	2.77	2.51	2.12	0.85	30.71	3.08	94.68	0.159	No	No	1.82
439	9.66	2.88	2.50	2.11	0.84	31.94	2.97	94.95	0.160	No	No	1.82
440	9.68	2.95	2.49	2.08	0.84	32.61	2.91	94.75	0.159	No	No	1.82
441	9.70	2.93	2.49	2.10	0.84	32.39	2.93	94.94	0.160	No	No	1.82
442	9.72	2.83	2.51	2.15	0.85	31.18	3.06	95.30	0.160	No	No	1.84
443	9.74	2.66	2.56	2.33	0.86	29.28	4.07	119.16	0.237	No	No	2.00
444	9.76	2.54	2.59	2.52	0.88	27.89	5.18	144.57	4.000	Yes	No	2.00
445	9.78	2.71	2.56	2.39	0.87	29.71	4.11	122.11	4.000	Yes	No	2.00
446	9.80	2.93	2.52	2.26	0.85	32.10	3.13	100.61	4.000	Yes	No	2.00
447	9.82	3.04	2.49	2.15	0.84	33.30	2.91	96.97	4.000	Yes	No	2.00
448	9.84	2.91	2.53	2.35	0.86	31.81	3.43	109.27	0.201	No	No	2.00
449	9.86	2.84	2.56	2.55	0.87	31.07	4.20	130.40	0.286	No	No	2.00
450	9.88	2.86	2.57	2.64	0.87	31.21	4.41	137.69	0.323	No	No	2.00
451	9.90	2.70	2.61	2.80	0.88	29.41	5.59	164.30	0.443	No	No	2.00
452	9.92	2.43	2.66	2.94	0.90	26.29	7.71	202.74	3.600	No	No	2.00
453	9.94	2.22	2.71	3.15	0.92	23.90	4.78	114.17	1.140	No	Yes	2.00
454	9.96	2.24	2.69	3.02	0.92	23.98	9.82	235.53	3.600	No	No	2.00
455	9.98	2.30	2.68	2.93	0.91	24.61	8.82	217.01	3.600	No	No	2.00
456	10.00	2.25	2.69	2.96	0.92	24.02	9.47	227.45	3.600	No	No	2.00
457	10.02	2.14	2.72	3.13	0.93	22.73	4.94	112.26	1.084	No	Yes	2.00
458	10.04	2.08	2.74	3.21	0.94	22.01	5.14	113.05	1.050	No	Yes	2.00
459	10.06	2.11	2.73	3.19	0.93	22.41	5.05	113.13	4.000	Yes	Yes	2.00
460	10.08	2.28	2.68	2.95	0.92	24.19	9.25	223.78	4.000	Yes	No	2.00
461	10.10	2.50	2.63	2.69	0.89	26.64	6.45	171.90	4.000	Yes	No	2.00
462	10.12	2.80	2.56	2.45	0.87	29.88	4.24	126.54	4.000	Yes	No	2.00
463	10.14	3.12	2.50	2.23	0.85	33.29	2.81	93.44	4.000	Yes	No	2.00
464	10.16	3.28	2.47	2.09	0.83	34.98	2.76	96.47	4.000	Yes	No	2.00
465	10.18	3.36	2.45	2.00	0.82	35.80	2.63	94.28	4.000	Yes	No	2.00
466	10.20	3.38	2.43	1.92	0.82	35.92	2.56	92.07	0.153	No	No	1.76
467	10.22	3.50	2.41	1.82	0.81	37.08	2.42	89.89	0.148	No	No	1.70
468	10.24	3.59	2.39	1.73	0.80	38.01	2.31	87.79	0.143	No	No	1.65
469	10.26	3.48	2.38	1.64	0.80	36.79	2.29	84.26	0.136	No	No	1.56
470	10.28	3.35	2.39	1.56	0.80	35.19	2.31	81.14	4.000	Yes	No	2.00
471	10.30	2.95	2.49	1.93	0.84	30.96	2.89	89.48	4.000	Yes	No	2.00
472	10.32	2.63	2.60	2.56	0.88	27.48	5.50	151.17	4.000	Yes	No	2.00
473	10.34	2.21	2.75	3.44	0.94	22.91	5.20	119.14	4.000	Yes	Yes	2.00
474	10.36	2.06	2.78	3.52	0.95	21.20	5.58	118.23	4.000	Yes	Yes	2.00
475	10.38	2.08	2.75	3.27	0.94	21.39	5.30	113.42	4.000	Yes	Yes	2.00
476	10.40	2.34	2.67	2.82	0.91	24.08	8.66	208.64	4.000	Yes	No	2.00
477	10.42	2.67	2.59	2.42	0.88	27.69	4.92	136.14	4.000	Yes	No	2.00
478	10.44	2.96	2.51	2.06	0.85	30.64	2.95	90.42	4.000	Yes	No	2.00
479	10.46	2.94	2.49	1.89	0.84	30.44	2.89	87.96	4.000	Yes	No	2.00
480	10.48	2.79	2.51	1.91	0.85	28.67	3.02	86.48	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
481	10.50	2.56	2.58	2.19	0.88	26.28	4.64	121.86	4.000	Yes	No	2.00
482	10.52	2.47	2.63	2.51	0.89	25.28	6.38	161.24	4.000	Yes	No	2.00
483	10.54	2.32	2.69	2.89	0.92	23.65	9.39	222.11	4.000	Yes	No	2.00
484	10.56	2.18	2.74	3.21	0.94	22.05	5.14	113.25	4.000	Yes	Yes	2.00
485	10.58	2.45	2.67	2.88	0.91	24.95	8.31	207.42	4.000	Yes	No	2.00
486	10.60	2.98	2.55	2.40	0.87	30.51	3.92	119.68	4.000	Yes	No	2.00
487	10.62	3.53	2.46	2.15	0.83	36.40	2.72	98.97	4.000	Yes	No	2.00
488	10.64	3.59	2.45	2.09	0.83	36.88	2.65	97.71	4.000	Yes	No	2.00
489	10.66	3.31	2.48	2.12	0.84	33.87	2.85	96.46	4.000	Yes	No	2.00
490	10.68	2.86	2.53	2.10	0.86	28.98	3.47	100.69	4.000	Yes	No	2.00
491	10.70	2.31	2.66	2.54	0.91	23.16	7.90	182.91	4.000	Yes	No	2.00
492	10.72	2.06	2.74	2.95	0.94	20.40	5.18	105.60	4.000	Yes	Yes	2.00
493	10.74	2.07	2.76	3.17	0.95	20.48	5.38	110.14	0.977	No	Yes	2.00
494	10.76	2.24	2.71	2.89	0.93	22.32	4.77	106.49	1.065	No	Yes	2.00
495	10.78	2.21	2.71	2.90	0.93	21.96	4.85	106.46	1.048	No	Yes	2.00
496	10.80	2.13	2.72	2.88	0.93	21.07	4.97	104.78	1.005	No	Yes	2.00
497	10.82	2.15	2.71	2.74	0.93	21.16	4.82	101.93	1.009	No	Yes	2.00
498	10.84	2.16	2.69	2.58	0.92	21.24	9.80	208.08	3.600	No	No	2.00
499	10.86	2.04	2.72	2.66	0.93	19.96	4.95	98.75	0.952	No	Yes	2.00
500	10.88	1.87	2.78	2.88	0.95	18.13	5.57	101.04	0.865	No	Yes	2.00
501	10.90	1.63	2.87	3.30	0.99	15.51	6.74	104.48	0.740	No	Yes	2.00
502	10.92	1.44	2.93	3.56	1.00	13.50	7.73	104.30	0.644	No	Yes	2.00
503	10.94	1.27	3.01	3.82	1.00	11.58	8.89	103.01	0.553	No	Yes	2.00
504	10.96	1.33	2.95	3.30	1.00	12.31	7.92	97.50	0.587	No	Yes	2.00
505	10.98	1.52	2.86	2.84	0.98	14.26	6.60	94.13	0.680	No	Yes	2.00
506	11.00	1.72	2.77	2.46	0.95	16.29	5.54	90.20	0.777	No	Yes	2.00
507	11.02	1.73	2.77	2.44	0.95	16.44	5.47	90.03	0.784	No	Yes	2.00
508	11.04	1.56	2.83	2.64	0.97	14.58	6.25	91.10	0.695	No	Yes	2.00
509	11.06	1.34	2.92	2.98	1.00	12.28	7.54	92.58	0.586	No	Yes	2.00
510	11.08	1.24	2.96	3.05	1.00	11.14	8.17	91.00	4.000	Yes	Yes	2.00
511	11.10	1.36	2.88	2.58	1.00	12.37	6.98	86.29	4.000	Yes	Yes	2.00
512	11.12	1.70	2.74	2.11	0.94	15.97	5.17	82.52	4.000	Yes	Yes	2.00
513	11.14	2.15	2.60	1.73	0.89	20.58	5.51	113.43	4.000	Yes	No	2.00
514	11.16	2.38	2.56	1.68	0.87	22.96	4.06	93.30	4.000	Yes	No	2.00
515	11.18	2.51	2.53	1.64	0.86	24.25	3.47	84.09	4.000	Yes	No	2.00
516	11.20	2.77	2.48	1.53	0.84	26.91	2.82	75.97	4.000	Yes	No	2.00
517	11.22	3.14	2.42	1.45	0.82	30.67	2.46	75.51	4.000	Yes	No	2.00
518	11.24	3.31	2.40	1.45	0.81	32.35	2.37	76.53	0.122	No	No	1.43
519	11.26	3.26	2.42	1.54	0.82	31.80	2.48	78.74	0.125	No	No	1.47
520	11.28	3.28	2.43	1.59	0.82	31.95	2.51	80.25	0.128	No	No	1.50
521	11.30	3.29	2.44	1.70	0.83	32.03	2.61	83.49	4.000	Yes	No	2.00
522	11.32	3.07	2.50	1.90	0.85	29.77	2.96	87.99	4.000	Yes	No	2.00
523	11.34	2.64	2.60	2.31	0.89	25.31	5.55	140.41	4.000	Yes	No	2.00
524	11.36	2.24	2.72	2.88	0.94	21.14	4.97	105.02	4.000	Yes	Yes	2.00
525	11.38	1.94	2.84	3.68	0.98	18.05	6.42	115.93	4.000	Yes	Yes	2.00
526	11.40	1.80	2.89	3.97	1.00	16.58	7.11	117.99	4.000	Yes	Yes	2.00
527	11.42	1.93	2.82	3.34	0.97	17.95	6.10	109.58	4.000	Yes	Yes	2.00
528	11.44	2.15	2.72	2.62	0.93	20.15	4.88	98.27	4.000	Yes	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
529	11.46	2.57	2.57	1.90	0.88	24.35	4.37	106.37	4.000	Yes	No	2.00
530	11.48	2.65	2.51	1.61	0.86	25.13	3.09	77.67	4.000	Yes	No	2.00
531	11.50	2.59	2.50	1.45	0.85	24.43	2.97	72.65	4.000	Yes	No	2.00
532	11.52	2.18	2.61	1.74	0.89	20.23	5.82	117.71	4.000	Yes	No	2.00
533	11.54	1.98	2.69	2.07	0.92	18.20	9.66	175.80	4.000	Yes	No	2.00
534	11.56	1.97	2.72	2.26	0.93	18.03	4.88	88.05	4.000	Yes	Yes	2.00
535	11.58	2.00	2.72	2.35	0.93	18.35	4.92	90.33	0.875	No	Yes	2.00
536	11.60	1.87	2.78	2.63	0.96	16.96	5.56	94.39	0.809	No	Yes	2.00
537	11.62	1.60	2.88	3.15	1.00	14.25	6.97	99.38	0.680	No	Yes	2.00
538	11.64	1.40	2.97	3.60	1.00	12.23	8.32	101.71	0.583	No	Yes	2.00
539	11.66	1.30	3.02	3.83	1.00	11.14	9.13	101.79	0.532	No	Yes	2.00
540	11.68	1.30	3.01	3.75	1.00	11.15	9.04	100.81	0.532	No	Yes	2.00
541	11.70	1.33	2.99	3.55	1.00	11.37	8.67	98.65	0.543	No	Yes	2.00
542	11.72	1.40	2.95	3.21	1.00	12.06	7.92	95.58	0.575	No	Yes	2.00
543	11.74	1.50	2.88	2.72	0.99	13.13	6.85	89.94	0.626	No	Yes	2.00
544	11.76	1.50	2.86	2.57	0.99	13.06	6.68	87.27	0.623	No	Yes	2.00
545	11.78	1.40	2.90	2.68	1.00	12.02	7.26	87.25	0.573	No	Yes	2.00
546	11.80	1.25	2.98	2.95	1.00	10.49	8.37	87.82	0.500	No	Yes	2.00
547	11.82	1.18	3.01	3.11	1.00	9.78	9.02	88.22	0.466	No	Yes	2.00
548	11.84	1.15	3.02	3.10	1.00	9.50	9.18	87.26	0.453	No	Yes	2.00
549	11.86	1.13	3.04	3.19	1.00	9.29	9.45	87.79	0.443	No	Yes	2.00
550	11.88	1.12	3.04	3.12	1.00	9.15	9.46	86.53	0.436	No	Yes	2.00
551	11.90	1.12	3.03	2.96	1.00	9.12	9.24	84.31	0.435	No	Yes	2.00
552	11.92	1.12	3.01	2.81	1.00	9.10	9.04	82.25	0.434	No	Yes	2.00
553	11.94	1.13	3.00	2.70	1.00	9.15	8.84	80.88	0.436	No	Yes	2.00
554	11.96	1.14	3.00	2.67	1.00	9.24	8.74	80.75	0.441	No	Yes	2.00
555	11.98	1.16	2.98	2.62	1.00	9.49	8.49	80.62	0.453	No	Yes	2.00
556	12.00	1.20	2.97	2.62	1.00	9.81	8.30	81.44	0.468	No	Yes	2.00
557	12.02	1.22	2.96	2.62	1.00	10.03	8.16	81.88	0.479	No	Yes	2.00
558	12.04	1.25	2.96	2.63	1.00	10.24	8.06	82.52	0.489	No	Yes	2.00
559	12.06	1.28	2.94	2.59	1.00	10.57	7.83	82.78	0.504	No	Yes	2.00
560	12.08	1.33	2.93	2.59	1.00	11.02	7.60	83.72	0.526	No	Yes	2.00
561	12.10	1.37	2.92	2.62	1.00	11.39	7.46	84.97	0.544	No	Yes	2.00
562	12.12	1.48	2.87	2.50	0.99	12.45	6.82	84.92	0.594	No	Yes	2.00
563	12.14	1.65	2.81	2.31	0.97	14.09	5.98	84.20	0.672	No	Yes	2.00
564	12.16	1.84	2.75	2.20	0.95	15.95	5.29	84.40	0.761	No	Yes	2.00
565	12.18	1.94	2.74	2.29	0.94	16.97	5.16	87.49	0.809	No	Yes	2.00
566	12.20	1.92	2.76	2.38	0.95	16.73	5.33	89.07	0.798	No	Yes	2.00
567	12.22	1.72	2.82	2.53	0.97	14.68	6.07	89.19	0.700	No	Yes	2.00
568	12.24	1.48	2.88	2.48	1.00	12.32	6.85	84.37	0.587	No	Yes	2.00
569	12.26	1.26	2.95	2.58	1.00	10.16	8.03	81.59	0.485	No	Yes	2.00
570	12.28	1.16	3.00	2.74	1.00	9.24	8.84	81.62	0.441	No	Yes	2.00
571	12.30	1.08	3.10	3.57	1.00	8.42	10.65	89.62	0.402	No	Yes	2.00
572	12.32	1.02	3.19	4.51	1.00	7.79	12.45	97.00	0.372	No	Yes	2.00
573	12.34	0.97	3.25	5.32	1.00	7.31	13.97	102.20	0.349	No	Yes	2.00
574	12.36	0.94	3.28	5.52	1.00	6.96	14.64	101.92	0.332	No	Yes	2.00
575	12.38	0.92	3.28	5.48	1.00	6.81	14.79	100.67	0.325	No	Yes	2.00
576	12.40	0.92	3.26	4.95	1.00	6.83	14.11	96.30	0.326	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
577	12.42	0.93	3.22	4.28	1.00	6.86	13.19	90.44	0.327	No	Yes	2.00
578	12.44	0.93	3.17	3.54	1.00	6.84	12.14	83.08	0.326	No	Yes	2.00
579	12.46	0.92	3.15	3.18	1.00	6.79	11.65	79.10	0.324	No	Yes	2.00
580	12.48	0.93	3.14	3.02	1.00	6.82	11.36	77.44	0.325	No	Yes	2.00
581	12.50	0.93	3.14	3.01	1.00	6.84	11.33	77.48	0.326	No	Yes	2.00
582	12.52	0.93	3.14	3.00	1.00	6.81	11.34	77.21	0.325	No	Yes	2.00
583	12.54	0.92	3.14	3.04	1.00	6.74	11.47	77.35	0.322	No	Yes	2.00
584	12.56	0.91	3.15	3.07	1.00	6.62	11.67	77.18	0.316	No	Yes	2.00
585	12.58	0.92	3.15	3.02	1.00	6.66	11.53	76.83	0.318	No	Yes	2.00
586	12.60	0.94	3.13	2.88	1.00	6.83	11.12	75.93	0.326	No	Yes	2.00
587	12.62	0.96	3.10	2.75	1.00	7.05	10.68	75.27	0.336	No	Yes	2.00
588	12.64	0.97	3.09	2.70	1.00	7.13	10.51	74.87	0.340	No	Yes	2.00
589	12.66	0.95	3.11	2.81	1.00	6.94	10.88	75.47	0.331	No	Yes	2.00
590	12.68	0.94	3.13	2.90	1.00	6.85	11.13	76.26	0.327	No	Yes	2.00
591	12.70	0.94	3.13	2.99	1.00	6.82	11.32	77.18	0.325	No	Yes	2.00
592	12.72	0.96	3.13	3.00	1.00	6.94	11.20	77.76	0.331	No	Yes	2.00
593	12.74	0.97	3.12	2.99	1.00	7.05	11.05	77.95	0.336	No	Yes	2.00
594	12.76	0.97	3.12	2.97	1.00	7.09	10.99	77.96	0.338	No	Yes	2.00
595	12.78	0.99	3.10	2.89	1.00	7.25	10.70	77.54	0.346	No	Yes	2.00
596	12.80	1.01	3.09	2.79	1.00	7.38	10.42	76.84	0.352	No	Yes	2.00
597	12.82	1.02	3.07	2.67	1.00	7.48	10.12	75.70	0.357	No	Yes	2.00
598	12.84	1.02	3.06	2.55	1.00	7.50	9.90	74.22	0.358	No	Yes	2.00
599	12.86	1.04	3.04	2.41	1.00	7.62	9.55	72.80	0.364	No	Yes	2.00
600	12.88	1.07	3.02	2.29	1.00	7.87	9.13	71.84	0.375	No	Yes	2.00
601	12.90	1.08	3.01	2.26	1.00	7.97	9.00	71.72	0.380	No	Yes	2.00
602	12.92	1.07	3.02	2.30	1.00	7.87	9.16	72.04	0.375	No	Yes	2.00
603	12.94	1.05	3.04	2.38	1.00	7.73	9.41	72.67	0.369	No	Yes	2.00
604	12.96	1.06	3.03	2.38	1.00	7.78	9.36	72.83	0.371	No	Yes	2.00
605	12.98	1.07	3.03	2.35	1.00	7.88	9.22	72.66	0.376	No	Yes	2.00
606	13.00	1.08	3.02	2.30	1.00	7.91	9.12	72.15	0.377	No	Yes	2.00
607	13.02	1.08	3.02	2.27	1.00	7.92	9.07	71.78	0.378	No	Yes	2.00
608	13.04	1.10	3.01	2.24	1.00	8.05	8.89	71.62	0.384	No	Yes	2.00
609	13.06	1.12	2.99	2.19	1.00	8.25	8.65	71.37	0.393	No	Yes	2.00
610	13.08	1.14	2.98	2.13	1.00	8.41	8.43	70.89	0.401	No	Yes	2.00
611	13.10	1.15	2.97	2.09	1.00	8.55	8.26	70.60	0.408	No	Yes	2.00
612	13.12	1.18	2.96	2.05	1.00	8.76	8.05	70.48	0.418	No	Yes	2.00
613	13.14	1.23	2.93	1.99	1.00	9.26	7.62	70.57	0.441	No	Yes	2.00
614	13.16	1.29	2.90	1.90	1.00	9.77	7.18	70.12	0.466	No	Yes	2.00
615	13.18	1.34	2.88	1.85	1.00	10.18	6.86	69.83	0.486	No	Yes	2.00
616	13.20	1.34	2.88	1.90	1.00	10.21	6.93	70.79	0.487	No	Yes	2.00
617	13.22	1.32	2.91	2.08	1.00	9.99	7.35	73.46	0.477	No	Yes	2.00
618	13.24	1.28	2.95	2.33	1.00	9.61	7.98	76.66	0.458	No	Yes	2.00
619	13.26	1.22	3.00	2.63	1.00	9.07	8.79	79.72	0.432	No	Yes	2.00
620	13.28	1.18	3.04	2.92	1.00	8.62	9.55	82.33	0.411	No	Yes	2.00
621	13.30	1.16	3.07	3.14	1.00	8.43	10.01	84.45	0.402	No	Yes	2.00
622	13.32	1.19	3.05	3.08	1.00	8.73	9.70	84.67	0.416	No	Yes	2.00
623	13.34	1.30	2.99	2.76	1.00	9.71	8.57	83.18	0.463	No	Yes	2.00
624	13.36	2.35	2.56	1.32	0.88	19.43	4.20	81.59	0.131	No	No	1.61

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
625	13.38	7.63	1.81	0.36	0.59	69.39	1.00	69.39	0.111	No	No	1.37
626	13.40	14.13	1.48	0.24	0.47	131.71	1.00	131.71	0.292	No	No	2.00
627	13.42	19.99	1.31	0.21	0.40	188.11	1.00	188.11	0.699	No	No	2.00
628	13.44	21.46	1.32	0.25	0.41	201.95	1.00	201.95	4.000	No	No	2.00
629	13.46	22.52	1.32	0.27	0.41	211.90	1.00	211.90	4.000	No	No	2.00
630	13.48	23.03	1.34	0.32	0.42	216.36	1.00	216.36	4.000	No	No	2.00
631	13.50	24.20	1.35	0.34	0.42	227.24	1.00	227.24	4.000	No	No	2.00
632	13.52	24.57	1.36	0.37	0.42	230.55	1.00	230.55	4.000	No	No	2.00
633	13.54	25.04	1.34	0.35	0.42	234.97	1.00	234.97	4.000	No	No	2.00
634	13.56	24.41	1.35	0.36	0.42	228.69	1.00	228.69	4.000	No	No	2.00
635	13.58	23.39	1.38	0.37	0.43	218.62	1.00	218.62	4.000	No	No	2.00
636	13.60	21.92	1.45	0.45	0.46	204.04	1.00	204.04	4.000	No	No	2.00
637	13.62	20.63	1.53	0.56	0.49	191.07	1.00	191.07	0.729	No	No	2.00
638	13.64	19.93	1.64	0.77	0.53	183.63	1.00	183.63	0.656	No	No	2.00
639	13.66	20.16	1.67	0.87	0.54	185.28	1.00	185.28	0.672	No	No	2.00
640	13.68	21.35	1.65	0.86	0.53	196.32	1.00	196.32	0.784	No	No	2.00
641	13.70	22.40	1.59	0.75	0.51	206.40	1.00	206.40	4.000	No	No	2.00
642	13.72	23.27	1.54	0.67	0.49	214.78	1.00	214.78	4.000	No	No	2.00
643	13.74	23.65	1.52	0.63	0.49	218.32	1.00	218.32	4.000	No	No	2.00
644	13.76	23.73	1.49	0.57	0.48	219.18	1.00	219.18	4.000	No	No	2.00
645	13.78	23.82	1.51	0.60	0.48	219.64	1.00	219.64	4.000	No	No	2.00
646	13.80	23.94	1.51	0.60	0.48	220.62	1.00	220.62	4.000	No	No	2.00
647	13.82	24.34	1.53	0.66	0.49	223.93	1.00	223.93	4.000	No	No	2.00
648	13.84	24.59	1.52	0.65	0.49	226.10	1.00	226.10	4.000	No	No	2.00
649	13.86	24.12	1.53	0.66	0.49	221.38	1.00	221.38	4.000	No	No	2.00
650	13.88	23.37	1.53	0.63	0.49	214.30	1.00	214.30	4.000	No	No	2.00
651	13.90	21.83	1.54	0.60	0.49	199.74	1.00	199.74	0.821	No	No	2.00
652	13.92	20.91	1.55	0.59	0.50	191.01	1.00	191.01	0.728	No	No	2.00
653	13.94	20.17	1.59	0.66	0.51	183.60	1.00	183.60	0.656	No	No	2.00
654	13.96	20.46	1.63	0.75	0.53	185.80	1.00	185.80	0.676	No	No	2.00
655	13.98	20.50	1.66	0.84	0.54	185.60	1.00	185.60	0.675	No	No	2.00
656	14.00	19.87	1.68	0.87	0.55	179.51	1.00	179.51	0.618	No	No	2.00
657	14.02	19.03	1.74	0.99	0.57	171.08	1.06	181.20	0.633	No	No	2.00
658	14.04	17.66	1.84	1.30	0.61	157.56	1.20	188.36	0.702	No	No	2.00
659	14.06	17.23	1.95	1.74	0.65	152.57	1.27	193.33	0.752	No	No	2.00
660	14.08	17.40	2.01	2.13	0.67	153.38	1.32	201.98	4.000	No	No	2.00
661	14.10	19.78	1.99	2.20	0.67	174.65	1.30	226.53	4.000	No	No	2.00
662	14.12	22.16	1.96	2.22	0.66	195.98	1.28	250.31	4.000	No	No	2.00
663	14.14	24.17	1.94	2.26	0.65	213.91	1.27	270.61	4.000	No	No	2.00
664	14.16	25.39	1.95	2.41	0.65	224.31	1.27	285.57	4.000	No	No	2.00
665	14.18	27.27	1.94	2.46	0.65	240.91	1.27	304.91	4.000	No	No	2.00
666	14.20	28.51	1.95	2.54	0.65	251.62	1.27	318.77	4.000	No	No	2.00
667	14.22	30.77	1.90	2.36	0.63	272.18	1.24	336.69	4.000	No	No	2.00
668	14.24	32.47	1.87	2.26	0.62	287.50	1.22	349.68	4.000	No	No	2.00
669	14.26	34.57	1.83	2.10	0.61	306.59	1.18	362.40	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
0.90	2.00	0.00	0.00	0.02	0.00	0.92	2.00	0.00	0.00	0.02	0.00
0.94	2.00	0.00	0.00	0.02	0.00	0.96	2.00	0.00	0.00	0.02	0.00
0.98	2.00	0.00	0.00	0.02	0.00	1.00	2.00	0.00	0.00	0.02	0.00
1.02	2.00	0.00	0.00	0.02	0.00	1.04	2.00	0.00	0.00	0.02	0.00
1.06	2.00	0.00	0.00	0.02	0.00	1.08	2.00	0.00	0.00	0.02	0.00
1.10	2.00	0.00	0.00	0.02	0.00	1.12	2.00	0.00	0.00	0.02	0.00
1.14	2.00	0.00	0.00	0.02	0.00	1.16	2.00	0.00	0.00	0.02	0.00
1.18	2.00	0.00	0.00	0.02	0.00	1.20	2.00	0.00	0.00	0.02	0.00
1.22	2.00	0.00	0.00	0.02	0.00	1.24	2.00	0.00	0.00	0.02	0.00
1.26	2.00	0.00	0.00	0.02	0.00	1.28	2.00	0.00	0.00	0.02	0.00
1.30	2.00	0.00	0.00	0.02	0.00	1.32	2.00	0.00	0.00	0.02	0.00
1.34	2.00	0.00	0.00	0.02	0.00	1.36	2.00	0.00	0.00	0.02	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.42	2.00	0.00	0.00	0.02	0.00	1.44	2.00	0.00	0.00	0.02	0.00
1.46	2.00	0.00	0.00	0.02	0.00	1.48	2.00	0.00	0.00	0.02	0.00
1.50	2.00	0.00	0.00	0.02	0.00	1.52	2.00	0.00	0.00	0.02	0.00
1.54	2.00	0.00	0.00	0.02	0.00	1.56	2.00	0.00	0.00	0.02	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.02	0.00
1.62	2.00	0.00	0.00	0.02	0.00	1.64	2.00	0.00	0.00	0.02	0.00
1.66	2.00	0.00	0.00	0.02	0.00	1.68	2.00	0.00	0.00	0.02	0.00
1.70	2.00	0.00	0.00	0.02	0.00	1.72	2.00	0.00	0.00	0.02	0.00
1.74	2.00	0.00	0.00	0.02	0.00	1.76	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.02	0.00
1.82	2.00	0.00	0.00	0.02	0.00	1.84	2.00	0.00	0.00	0.02	0.00
1.86	2.00	0.00	0.00	0.02	0.00	1.88	2.00	0.00	0.00	0.02	0.00
1.90	2.00	0.00	0.00	0.02	0.00	1.92	2.00	0.00	0.00	0.02	0.00
1.94	2.00	0.00	0.00	0.02	0.00	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.02	2.00	0.00	0.00	0.02	0.00	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	2.00	0.00	0.00	0.02	0.00
2.10	2.00	0.00	0.00	0.02	0.00	2.12	2.00	0.00	0.00	0.02	0.00
2.14	2.00	0.00	0.00	0.02	0.00	2.16	2.00	0.00	0.00	0.02	0.00
2.18	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00
2.42	2.00	0.00	0.00	0.02	0.00	2.44	2.00	0.00	0.00	0.02	0.00
2.46	2.00	0.00	0.00	0.02	0.00	2.48	2.00	0.00	0.00	0.02	0.00
2.50	2.00	0.00	0.00	0.02	0.00	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	2.00	0.00	0.00	0.02	0.00	2.64	2.00	0.00	0.00	0.02	0.00
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	2.00	0.00	0.00	0.02	0.00
2.74	2.00	0.00	0.00	0.02	0.00	2.76	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
2.82	2.00	0.00	0.00	0.02	0.00	2.84	2.00	0.00	0.00	0.02	0.00
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	2.00	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	2.00	0.00	0.00	0.02	0.00	3.08	2.00	0.00	0.00	0.02	0.00
3.10	2.00	0.00	0.00	0.02	0.00	3.12	2.00	0.00	0.00	0.02	0.00
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.42	2.00	0.00	0.00	0.02	0.00	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.02	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.62	2.00	0.00	0.00	0.02	0.00	3.64	2.00	0.00	0.00	0.02	0.00
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	2.00	0.00	0.00	0.02	0.00
3.74	2.00	0.00	0.00	0.02	0.00	3.76	2.00	0.00	0.00	0.02	0.00
3.78	2.00	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.82	2.00	0.00	0.00	0.02	0.00	3.84	2.00	0.00	0.00	0.02	0.00
3.86	2.00	0.00	0.00	0.02	0.00	3.88	2.00	0.00	0.00	0.02	0.00
3.90	2.00	0.00	0.00	0.02	0.00	3.92	2.00	0.00	0.00	0.02	0.00
3.94	2.00	0.00	0.00	0.02	0.00	3.96	2.00	0.00	0.00	0.02	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.02	2.00	0.00	0.00	0.02	0.00	4.04	2.00	0.00	0.00	0.02	0.00
4.06	2.00	0.00	0.00	0.02	0.00	4.08	2.00	0.00	0.00	0.02	0.00
4.10	2.00	0.00	0.00	0.02	0.00	4.12	2.00	0.00	0.00	0.02	0.00
4.14	2.00	0.00	0.00	0.02	0.00	4.16	2.00	0.00	0.00	0.02	0.00
4.18	2.00	0.00	0.00	0.02	0.00	4.20	2.00	0.00	0.00	0.02	0.00
4.22	2.00	0.00	0.00	0.02	0.00	4.24	2.00	0.00	0.00	0.02	0.00
4.26	2.00	0.00	0.00	0.02	0.00	4.28	2.00	0.00	0.00	0.02	0.00
4.30	2.00	0.00	0.00	0.02	0.00	4.32	2.00	0.00	0.00	0.02	0.00
4.34	2.00	0.00	0.00	0.02	0.00	4.36	2.00	0.00	0.00	0.02	0.00
4.38	2.00	0.00	0.00	0.02	0.00	4.40	2.00	0.00	0.00	0.02	0.00
4.42	2.00	0.00	0.00	0.02	0.00	4.44	2.00	0.00	0.00	0.02	0.00
4.46	2.00	0.00	0.00	0.02	0.00	4.48	2.00	0.00	0.00	0.02	0.00
4.50	2.00	0.00	0.00	0.02	0.00	4.52	2.00	0.00	0.00	0.02	0.00
4.54	2.00	0.00	0.00	0.02	0.00	4.56	2.00	0.00	0.00	0.02	0.00
4.58	2.00	0.00	0.00	0.02	0.00	4.60	2.00	0.00	0.00	0.02	0.00
4.62	2.00	0.00	0.00	0.02	0.00	4.64	2.00	0.00	0.00	0.02	0.00
4.66	2.00	0.00	0.00	0.02	0.00	4.68	2.00	0.00	0.00	0.02	0.00
4.70	2.00	0.00	0.00	0.02	0.00	4.72	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
4.74	2.00	0.00	0.00	0.02	0.00	4.76	2.00	0.00	0.00	0.02	0.00
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	2.00	0.00	0.00	0.02	0.00
4.86	2.00	0.00	0.00	0.02	0.00	4.88	2.00	0.00	0.00	0.02	0.00
4.90	2.00	0.00	0.00	0.02	0.00	4.92	2.00	0.00	0.00	0.02	0.00
4.94	2.00	0.00	0.00	0.02	0.00	4.96	2.00	0.00	0.00	0.02	0.00
4.98	2.00	0.00	0.00	0.02	0.00	5.00	2.00	0.00	0.00	0.02	0.00
5.02	2.00	0.00	0.00	0.02	0.00	5.04	2.00	0.00	0.00	0.02	0.00
5.06	2.00	0.00	0.00	0.02	0.00	5.08	2.00	0.00	0.00	0.02	0.00
5.10	2.00	0.00	0.00	0.02	0.00	5.12	2.00	0.00	0.00	0.02	0.00
5.14	2.00	0.00	0.00	0.02	0.00	5.16	1.97	0.00	0.00	0.02	0.00
5.18	1.82	0.00	0.00	0.02	0.00	5.20	1.73	0.00	0.00	0.02	0.00
5.22	1.64	0.00	0.00	0.02	0.00	5.24	1.66	0.00	0.00	0.02	0.00
5.26	1.78	0.00	0.00	0.02	0.00	5.28	2.00	0.00	0.00	0.02	0.00
5.30	2.00	0.00	0.00	0.02	0.00	5.32	2.00	0.00	0.00	0.02	0.00
5.34	2.00	0.00	0.00	0.02	0.00	5.36	2.00	0.00	0.00	0.02	0.00
5.38	2.00	0.00	0.00	0.02	0.00	5.40	2.00	0.00	0.00	0.02	0.00
5.42	2.00	0.00	0.00	0.02	0.00	5.44	2.00	0.00	0.00	0.02	0.00
5.46	2.00	0.00	0.00	0.02	0.00	5.48	2.00	0.00	0.00	0.02	0.00
5.50	2.00	0.00	0.00	0.02	0.00	5.52	2.00	0.00	0.00	0.02	0.00
5.54	2.00	0.00	0.00	0.02	0.00	5.56	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.02	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.62	2.00	0.00	0.00	0.02	0.00	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	2.00	0.00	0.00	0.02	0.00
5.86	2.00	0.00	0.00	0.02	0.00	5.88	2.00	0.00	0.00	0.02	0.00
5.90	2.00	0.00	0.00	0.02	0.00	5.92	2.00	0.00	0.00	0.02	0.00
5.94	2.00	0.00	0.00	0.02	0.00	5.96	2.00	0.00	0.00	0.02	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.02	0.00
6.02	2.00	0.00	0.00	0.02	0.00	6.04	2.00	0.00	0.00	0.02	0.00
6.06	2.00	0.00	0.00	0.02	0.00	6.08	2.00	0.00	0.00	0.02	0.00
6.10	2.00	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00	9.44	2.00	0.00	0.00	0.02	0.00
9.46	2.00	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00
9.62	1.96	0.00	0.00	0.02	0.00	9.64	1.82	0.00	0.00	0.02	0.00
9.66	1.82	0.00	0.00	0.02	0.00	9.68	1.82	0.00	0.00	0.02	0.00
9.70	1.82	0.00	0.00	0.02	0.00	9.72	1.84	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	1.76	0.00	0.00	0.02	0.00
10.22	1.70	0.00	0.00	0.02	0.00	10.24	1.65	0.00	0.00	0.02	0.00
10.26	1.56	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	2.00	0.00	0.00	0.02	0.00	10.32	2.00	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
10.50	2.00	0.00	0.00	0.02	0.00	10.52	2.00	0.00	0.00	0.02	0.00
10.54	2.00	0.00	0.00	0.02	0.00	10.56	2.00	0.00	0.00	0.02	0.00
10.58	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.02	0.00
10.62	2.00	0.00	0.00	0.02	0.00	10.64	2.00	0.00	0.00	0.02	0.00
10.66	2.00	0.00	0.00	0.02	0.00	10.68	2.00	0.00	0.00	0.02	0.00
10.70	2.00	0.00	0.00	0.02	0.00	10.72	2.00	0.00	0.00	0.02	0.00
10.74	2.00	0.00	0.00	0.02	0.00	10.76	2.00	0.00	0.00	0.02	0.00
10.78	2.00	0.00	0.00	0.02	0.00	10.80	2.00	0.00	0.00	0.02	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.84	2.00	0.00	0.00	0.02	0.00
10.86	2.00	0.00	0.00	0.02	0.00	10.88	2.00	0.00	0.00	0.02	0.00
10.90	2.00	0.00	0.00	0.02	0.00	10.92	2.00	0.00	0.00	0.02	0.00
10.94	2.00	0.00	0.00	0.02	0.00	10.96	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.02	0.00	11.00	2.00	0.00	0.00	0.02	0.00
11.02	2.00	0.00	0.00	0.02	0.00	11.04	2.00	0.00	0.00	0.02	0.00
11.06	2.00	0.00	0.00	0.02	0.00	11.08	2.00	0.00	0.00	0.02	0.00
11.10	2.00	0.00	0.00	0.02	0.00	11.12	2.00	0.00	0.00	0.02	0.00
11.14	2.00	0.00	0.00	0.02	0.00	11.16	2.00	0.00	0.00	0.02	0.00
11.18	2.00	0.00	0.00	0.02	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.22	2.00	0.00	0.00	0.02	0.00	11.24	1.43	0.00	0.00	0.02	0.00
11.26	1.47	0.00	0.00	0.02	0.00	11.28	1.50	0.00	0.00	0.02	0.00
11.30	2.00	0.00	0.00	0.02	0.00	11.32	2.00	0.00	0.00	0.02	0.00
11.34	2.00	0.00	0.00	0.02	0.00	11.36	2.00	0.00	0.00	0.02	0.00
11.38	2.00	0.00	0.00	0.02	0.00	11.40	2.00	0.00	0.00	0.02	0.00
11.42	2.00	0.00	0.00	0.02	0.00	11.44	2.00	0.00	0.00	0.02	0.00
11.46	2.00	0.00	0.00	0.02	0.00	11.48	2.00	0.00	0.00	0.02	0.00
11.50	2.00	0.00	0.00	0.02	0.00	11.52	2.00	0.00	0.00	0.02	0.00
11.54	2.00	0.00	0.00	0.02	0.00	11.56	2.00	0.00	0.00	0.02	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.02	0.00
11.62	2.00	0.00	0.00	0.02	0.00	11.64	2.00	0.00	0.00	0.02	0.00
11.66	2.00	0.00	0.00	0.02	0.00	11.68	2.00	0.00	0.00	0.02	0.00
11.70	2.00	0.00	0.00	0.02	0.00	11.72	2.00	0.00	0.00	0.02	0.00
11.74	2.00	0.00	0.00	0.02	0.00	11.76	2.00	0.00	0.00	0.02	0.00
11.78	2.00	0.00	0.00	0.02	0.00	11.80	2.00	0.00	0.00	0.02	0.00
11.82	2.00	0.00	0.00	0.02	0.00	11.84	2.00	0.00	0.00	0.02	0.00
11.86	2.00	0.00	0.00	0.02	0.00	11.88	2.00	0.00	0.00	0.02	0.00
11.90	2.00	0.00	0.00	0.02	0.00	11.92	2.00	0.00	0.00	0.02	0.00
11.94	2.00	0.00	0.00	0.02	0.00	11.96	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.02	0.00	12.00	2.00	0.00	0.00	0.02	0.00
12.02	2.00	0.00	0.00	0.02	0.00	12.04	2.00	0.00	0.00	0.02	0.00
12.06	2.00	0.00	0.00	0.02	0.00	12.08	2.00	0.00	0.00	0.02	0.00
12.10	2.00	0.00	0.00	0.02	0.00	12.12	2.00	0.00	0.00	0.02	0.00
12.14	2.00	0.00	0.00	0.02	0.00	12.16	2.00	0.00	0.00	0.02	0.00
12.18	2.00	0.00	0.00	0.02	0.00	12.20	2.00	0.00	0.00	0.02	0.00
12.22	2.00	0.00	0.00	0.02	0.00	12.24	2.00	0.00	0.00	0.02	0.00
12.26	2.00	0.00	0.00	0.02	0.00	12.28	2.00	0.00	0.00	0.02	0.00
12.30	2.00	0.00	0.00	0.02	0.00	12.32	2.00	0.00	0.00	0.02	0.00
12.34	2.00	0.00	0.00	0.02	0.00	12.36	2.00	0.00	0.00	0.02	0.00
12.38	2.00	0.00	0.00	0.02	0.00	12.40	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
12.42	2.00	0.00	0.00	0.02	0.00	12.44	2.00	0.00	0.00	0.02	0.00
12.46	2.00	0.00	0.00	0.02	0.00	12.48	2.00	0.00	0.00	0.02	0.00
12.50	2.00	0.00	0.00	0.02	0.00	12.52	2.00	0.00	0.00	0.02	0.00
12.54	2.00	0.00	0.00	0.02	0.00	12.56	2.00	0.00	0.00	0.02	0.00
12.58	2.00	0.00	0.00	0.02	0.00	12.60	2.00	0.00	0.00	0.02	0.00
12.62	2.00	0.00	0.00	0.02	0.00	12.64	2.00	0.00	0.00	0.02	0.00
12.66	2.00	0.00	0.00	0.02	0.00	12.68	2.00	0.00	0.00	0.02	0.00
12.70	2.00	0.00	0.00	0.02	0.00	12.72	2.00	0.00	0.00	0.02	0.00
12.74	2.00	0.00	0.00	0.02	0.00	12.76	2.00	0.00	0.00	0.02	0.00
12.78	2.00	0.00	0.00	0.02	0.00	12.80	2.00	0.00	0.00	0.02	0.00
12.82	2.00	0.00	0.00	0.02	0.00	12.84	2.00	0.00	0.00	0.02	0.00
12.86	2.00	0.00	0.00	0.02	0.00	12.88	2.00	0.00	0.00	0.02	0.00
12.90	2.00	0.00	0.00	0.02	0.00	12.92	2.00	0.00	0.00	0.02	0.00
12.94	2.00	0.00	0.00	0.02	0.00	12.96	2.00	0.00	0.00	0.02	0.00
12.98	2.00	0.00	0.00	0.02	0.00	13.00	2.00	0.00	0.00	0.02	0.00
13.02	2.00	0.00	0.00	0.02	0.00	13.04	2.00	0.00	0.00	0.02	0.00
13.06	2.00	0.00	0.00	0.02	0.00	13.08	2.00	0.00	0.00	0.02	0.00
13.10	2.00	0.00	0.00	0.02	0.00	13.12	2.00	0.00	0.00	0.02	0.00
13.14	2.00	0.00	0.00	0.02	0.00	13.16	2.00	0.00	0.00	0.02	0.00
13.18	2.00	0.00	0.00	0.02	0.00	13.20	2.00	0.00	0.00	0.02	0.00
13.22	2.00	0.00	0.00	0.02	0.00	13.24	2.00	0.00	0.00	0.02	0.00
13.26	2.00	0.00	0.00	0.02	0.00	13.28	2.00	0.00	0.00	0.02	0.00
13.30	2.00	0.00	0.00	0.02	0.00	13.32	2.00	0.00	0.00	0.02	0.00
13.34	2.00	0.00	0.00	0.02	0.00	13.36	1.61	0.00	0.00	0.02	0.00
13.38	1.37	0.00	0.00	0.02	0.00	13.40	2.00	0.00	0.00	0.02	0.00
13.42	2.00	0.00	0.00	0.02	0.00	13.44	2.00	0.00	0.00	0.02	0.00
13.46	2.00	0.00	0.00	0.02	0.00	13.48	2.00	0.00	0.00	0.02	0.00
13.50	2.00	0.00	0.00	0.02	0.00	13.52	2.00	0.00	0.00	0.02	0.00
13.54	2.00	0.00	0.00	0.02	0.00	13.56	2.00	0.00	0.00	0.02	0.00
13.58	2.00	0.00	0.00	0.02	0.00	13.60	2.00	0.00	0.00	0.02	0.00
13.62	2.00	0.00	0.00	0.02	0.00	13.64	2.00	0.00	0.00	0.02	0.00
13.66	2.00	0.00	0.00	0.02	0.00	13.68	2.00	0.00	0.00	0.02	0.00
13.70	2.00	0.00	0.00	0.02	0.00	13.72	2.00	0.00	0.00	0.02	0.00
13.74	2.00	0.00	0.00	0.02	0.00	13.76	2.00	0.00	0.00	0.02	0.00
13.78	2.00	0.00	0.00	0.02	0.00	13.80	2.00	0.00	0.00	0.02	0.00
13.82	2.00	0.00	0.00	0.02	0.00	13.84	2.00	0.00	0.00	0.02	0.00
13.86	2.00	0.00	0.00	0.02	0.00	13.88	2.00	0.00	0.00	0.02	0.00
13.90	2.00	0.00	0.00	0.02	0.00	13.92	2.00	0.00	0.00	0.02	0.00
13.94	2.00	0.00	0.00	0.02	0.00	13.96	2.00	0.00	0.00	0.02	0.00
13.98	2.00	0.00	0.00	0.02	0.00	14.00	2.00	0.00	0.00	0.02	0.00
14.02	2.00	0.00	0.00	0.02	0.00	14.04	2.00	0.00	0.00	0.02	0.00
14.06	2.00	0.00	0.00	0.02	0.00	14.08	2.00	0.00	0.00	0.02	0.00
14.10	2.00	0.00	0.00	0.02	0.00	14.12	2.00	0.00	0.00	0.02	0.00
14.14	2.00	0.00	0.00	0.02	0.00	14.16	2.00	0.00	0.00	0.02	0.00
14.18	2.00	0.00	0.00	0.02	0.00	14.20	2.00	0.00	0.00	0.02	0.00
14.22	2.00	0.00	0.00	0.02	0.00	14.24	2.00	0.00	0.00	0.02	0.00
14.26	2.00	0.00	0.00	0.02	0.00						

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI

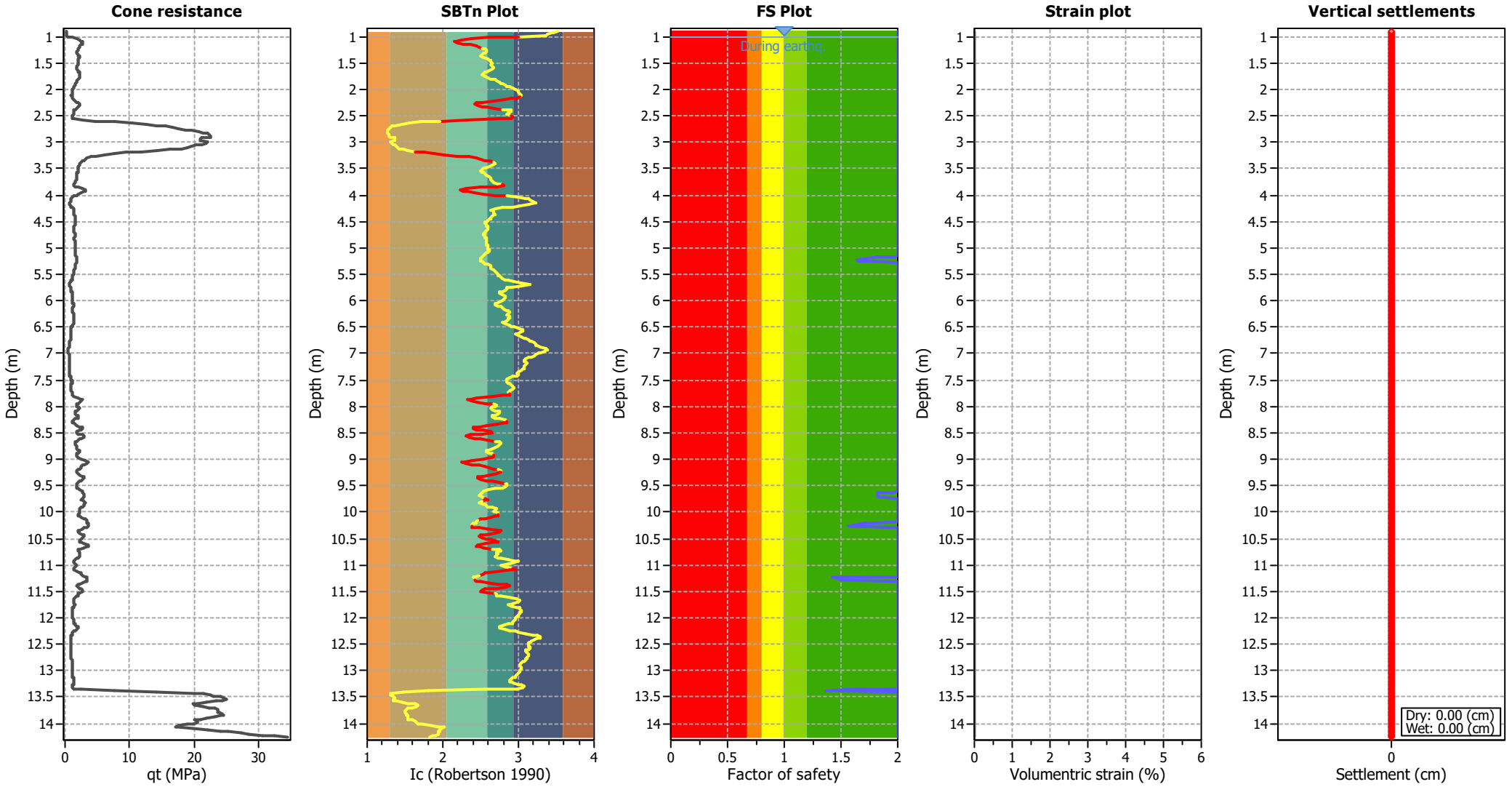
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
1.00	88.51	2.00	0.00	0.94	0.00	1.02	125.21	2.00	0.00	0.94	0.00
1.04	74.64	2.00	0.00	0.94	0.00	1.06	76.46	2.00	0.00	0.94	0.00
1.08	78.80	2.00	0.00	0.94	0.00	1.10	82.54	2.00	0.00	0.94	0.00
1.12	87.02	2.00	0.00	0.94	0.00	1.14	94.69	2.00	0.00	0.94	0.00
1.16	104.73	2.00	0.00	0.94	0.00	1.18	114.91	2.00	0.00	0.93	0.00
1.20	122.35	2.00	0.00	0.93	0.00	1.22	136.53	2.00	0.00	0.93	0.00
1.24	168.99	2.00	0.00	0.93	0.00	1.26	183.12	2.00	0.00	0.93	0.00
1.28	168.42	2.00	0.00	0.93	0.00	1.30	156.60	2.00	0.00	0.93	0.00
1.32	139.61	2.00	0.00	0.93	0.00	1.34	123.06	2.00	0.00	0.93	0.00
1.36	113.44	2.00	0.00	0.92	0.00	1.38	120.17	2.00	0.00	0.92	0.00
1.40	142.58	2.00	0.00	0.92	0.00	1.42	198.55	2.00	0.00	0.92	0.00
1.44	237.85	2.00	0.00	0.92	0.00	1.46	268.11	2.00	0.00	0.92	0.00
1.48	264.31	2.00	0.00	0.92	0.00	1.50	279.99	2.00	0.00	0.92	0.00
1.52	268.57	2.00	0.00	0.92	0.00	1.54	263.73	2.00	0.00	0.91	0.00
1.56	261.15	2.00	0.00	0.91	0.00	1.58	296.42	2.00	0.00	0.91	0.00
1.60	295.38	2.00	0.00	0.91	0.00	1.62	275.61	2.00	0.00	0.91	0.00
1.64	228.93	2.00	0.00	0.91	0.00	1.66	198.61	2.00	0.00	0.91	0.00
1.68	179.41	2.00	0.00	0.91	0.00	1.70	162.80	2.00	0.00	0.91	0.00
1.72	150.19	2.00	0.00	0.90	0.00	1.74	150.23	2.00	0.00	0.90	0.00
1.76	172.20	2.00	0.00	0.90	0.00	1.78	218.83	2.00	0.00	0.90	0.00
1.80	273.14	2.00	0.00	0.90	0.00	1.82	338.25	2.00	0.00	0.90	0.00
1.84	169.77	2.00	0.00	0.90	0.00	1.86	172.15	2.00	0.00	0.90	0.00
1.88	173.99	2.00	0.00	0.90	0.00	1.90	175.74	2.00	0.00	0.89	0.00
1.92	176.97	2.00	0.00	0.89	0.00	1.94	177.11	2.00	0.00	0.89	0.00
1.96	178.41	2.00	0.00	0.89	0.00	1.98	181.49	2.00	0.00	0.89	0.00
2.00	185.35	2.00	0.00	0.89	0.00	2.02	187.36	2.00	0.00	0.89	0.00
2.04	188.42	2.00	0.00	0.89	0.00	2.06	191.04	2.00	0.00	0.89	0.00
2.08	191.42	2.00	0.00	0.88	0.00	2.10	188.22	2.00	0.00	0.88	0.00
2.12	180.11	2.00	0.00	0.88	0.00	2.14	172.23	2.00	0.00	0.88	0.00
2.16	164.00	2.00	0.00	0.88	0.00	2.18	152.16	2.00	0.00	0.88	0.00
2.20	137.92	2.00	0.00	0.88	0.00	2.22	231.71	2.00	0.00	0.88	0.00
2.24	114.33	2.00	0.00	0.88	0.00	2.26	104.91	2.00	0.00	0.87	0.00
2.28	106.65	2.00	0.00	0.87	0.00	2.30	116.75	2.00	0.00	0.87	0.00
2.32	134.32	2.00	0.00	0.87	0.00	2.34	177.53	2.00	0.00	0.87	0.00
2.36	297.39	2.00	0.00	0.87	0.00	2.38	171.11	2.00	0.00	0.87	0.00
2.40	184.23	2.00	0.00	0.87	0.00	2.42	180.75	2.00	0.00	0.87	0.00
2.44	170.98	2.00	0.00	0.86	0.00	2.46	167.23	2.00	0.00	0.86	0.00
2.48	166.65	2.00	0.00	0.86	0.00	2.50	164.43	2.00	0.00	0.86	0.00
2.52	157.65	2.00	0.00	0.86	0.00	2.54	148.63	2.00	0.00	0.86	0.00
2.56	134.20	2.00	0.00	0.86	0.00	2.58	100.16	2.00	0.00	0.86	0.00
2.60	117.25	2.00	0.00	0.86	0.00	2.62	145.44	2.00	0.00	0.85	0.00
2.64	180.63	2.00	0.00	0.85	0.00	2.66	208.69	2.00	0.00	0.85	0.00
2.68	226.99	2.00	0.00	0.85	0.00	2.70	242.36	2.00	0.00	0.85	0.00
2.72	257.41	2.00	0.00	0.85	0.00	2.74	269.64	2.00	0.00	0.85	0.00
2.76	282.10	2.00	0.00	0.85	0.00	2.78	294.71	2.00	0.00	0.85	0.00
2.80	309.06	2.00	0.00	0.84	0.00	2.82	321.53	2.00	0.00	0.84	0.00
2.84	331.49	2.00	0.00	0.84	0.00	2.86	336.68	2.00	0.00	0.84	0.00
2.88	339.20	2.00	0.00	0.84	0.00	2.90	340.36	2.00	0.00	0.84	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
2.92	329.18	2.00	0.00	0.84	0.00	2.94	325.67	2.00	0.00	0.84	0.00
2.96	322.69	2.00	0.00	0.84	0.00	2.98	331.00	2.00	0.00	0.83	0.00
3.00	331.75	2.00	0.00	0.83	0.00	3.02	327.73	2.00	0.00	0.83	0.00
3.04	320.69	2.00	0.00	0.83	0.00	3.06	310.94	2.00	0.00	0.83	0.00
3.08	301.85	2.00	0.00	0.83	0.00	3.10	291.65	2.00	0.00	0.83	0.00
3.12	279.75	2.00	0.00	0.83	0.00	3.14	257.74	2.00	0.00	0.83	0.00
3.16	230.25	2.00	0.00	0.82	0.00	3.18	196.83	2.00	0.00	0.82	0.00
3.20	183.40	2.00	0.00	0.82	0.00	3.22	172.45	2.00	0.00	0.82	0.00
3.24	157.06	2.00	0.00	0.82	0.00	3.26	149.01	2.00	0.00	0.82	0.00
3.28	159.79	2.00	0.00	0.82	0.00	3.30	175.07	2.00	0.00	0.82	0.00
3.32	174.25	2.00	0.00	0.82	0.00	3.34	232.84	2.00	0.00	0.81	0.00
3.36	320.40	2.00	0.00	0.81	0.00	3.38	411.52	2.00	0.00	0.81	0.00
3.40	447.50	2.00	0.00	0.81	0.00	3.42	419.84	2.00	0.00	0.81	0.00
3.44	319.24	2.00	0.00	0.81	0.00	3.46	230.71	2.00	0.00	0.81	0.00
3.48	165.00	2.00	0.00	0.81	0.00	3.50	137.25	2.00	0.00	0.81	0.00
3.52	117.95	2.00	0.00	0.80	0.00	3.54	106.72	2.00	0.00	0.80	0.00
3.56	110.61	2.00	0.00	0.80	0.00	3.58	127.32	2.00	0.00	0.80	0.00
3.60	144.10	2.00	0.00	0.80	0.00	3.62	156.16	2.00	0.00	0.80	0.00
3.64	168.61	2.00	0.00	0.80	0.00	3.66	187.11	2.00	0.00	0.80	0.00
3.68	212.86	2.00	0.00	0.80	0.00	3.70	223.28	2.00	0.00	0.79	0.00
3.72	220.92	2.00	0.00	0.79	0.00	3.74	229.08	2.00	0.00	0.79	0.00
3.76	267.93	2.00	0.00	0.79	0.00	3.78	136.39	2.00	0.00	0.79	0.00
3.80	138.02	2.00	0.00	0.79	0.00	3.82	138.52	2.00	0.00	0.79	0.00
3.84	131.46	2.00	0.00	0.79	0.00	3.86	114.06	2.00	0.00	0.79	0.00
3.88	104.25	2.00	0.00	0.78	0.00	3.90	103.68	2.00	0.00	0.78	0.00
3.92	108.51	2.00	0.00	0.78	0.00	3.94	114.25	2.00	0.00	0.78	0.00
3.96	123.31	2.00	0.00	0.78	0.00	3.98	152.10	2.00	0.00	0.78	0.00
4.00	309.82	2.00	0.00	0.78	0.00	4.02	162.84	2.00	0.00	0.78	0.00
4.04	178.48	2.00	0.00	0.78	0.00	4.06	186.96	2.00	0.00	0.77	0.00
4.08	189.85	2.00	0.00	0.77	0.00	4.10	187.37	2.00	0.00	0.77	0.00
4.12	182.86	2.00	0.00	0.77	0.00	4.14	166.83	2.00	0.00	0.77	0.00
4.16	151.18	2.00	0.00	0.77	0.00	4.18	135.27	2.00	0.00	0.77	0.00
4.20	130.26	2.00	0.00	0.77	0.00	4.22	122.38	2.00	0.00	0.77	0.00
4.24	112.19	2.00	0.00	0.76	0.00	4.26	224.15	2.00	0.00	0.76	0.00
4.28	178.56	2.00	0.00	0.76	0.00	4.30	191.41	2.00	0.00	0.76	0.00
4.32	214.40	2.00	0.00	0.76	0.00	4.34	235.26	2.00	0.00	0.76	0.00
4.36	239.98	2.00	0.00	0.76	0.00	4.38	230.31	2.00	0.00	0.76	0.00
4.40	213.69	2.00	0.00	0.76	0.00	4.42	196.39	2.00	0.00	0.75	0.00
4.44	182.48	2.00	0.00	0.75	0.00	4.46	166.66	2.00	0.00	0.75	0.00
4.48	145.50	2.00	0.00	0.75	0.00	4.50	127.44	2.00	0.00	0.75	0.00
4.52	114.97	2.00	0.00	0.75	0.00	4.54	115.10	2.00	0.00	0.75	0.00
4.56	119.63	2.00	0.00	0.75	0.00	4.58	127.82	2.00	0.00	0.75	0.00
4.60	133.35	2.00	0.00	0.74	0.00	4.62	136.84	2.00	0.00	0.74	0.00
4.64	136.88	2.00	0.00	0.74	0.00	4.66	131.79	2.00	0.00	0.74	0.00
4.68	122.41	2.00	0.00	0.74	0.00	4.70	112.39	2.00	0.00	0.74	0.00
4.72	104.93	2.00	0.00	0.74	0.00	4.74	101.53	2.00	0.00	0.74	0.00
4.76	99.73	2.00	0.00	0.74	0.00	4.78	102.30	2.00	0.00	0.73	0.00
4.80	108.84	2.00	0.00	0.73	0.00	4.82	117.89	2.00	0.00	0.73	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
4.84	124.86	2.00	0.00	0.73	0.00	4.86	127.28	2.00	0.00	0.73	0.00
4.88	126.56	2.00	0.00	0.73	0.00	4.90	125.30	2.00	0.00	0.73	0.00
4.92	123.27	2.00	0.00	0.73	0.00	4.94	129.13	2.00	0.00	0.73	0.00
4.96	136.50	2.00	0.00	0.72	0.00	4.98	142.60	2.00	0.00	0.72	0.00
5.00	143.74	2.00	0.00	0.72	0.00	5.02	147.36	2.00	0.00	0.72	0.00
5.04	152.32	2.00	0.00	0.72	0.00	5.06	151.28	2.00	0.00	0.72	0.00
5.08	143.50	2.00	0.00	0.72	0.00	5.10	132.46	2.00	0.00	0.72	0.00
5.12	118.20	2.00	0.00	0.72	0.00	5.14	105.28	2.00	0.00	0.71	0.00
5.16	96.61	1.97	0.00	0.71	0.00	5.18	91.70	1.82	0.00	0.71	0.00
5.20	88.23	1.73	0.00	0.71	0.00	5.22	84.68	1.64	0.00	0.71	0.00
5.24	85.60	1.66	0.00	0.71	0.00	5.26	90.40	1.78	0.00	0.71	0.00
5.28	100.71	2.00	0.00	0.71	0.00	5.30	117.96	2.00	0.00	0.71	0.00
5.32	142.51	2.00	0.00	0.70	0.00	5.34	172.41	2.00	0.00	0.70	0.00
5.36	170.83	2.00	0.00	0.70	0.00	5.38	170.62	2.00	0.00	0.70	0.00
5.40	169.56	2.00	0.00	0.70	0.00	5.42	198.18	2.00	0.00	0.70	0.00
5.44	220.36	2.00	0.00	0.70	0.00	5.46	106.34	2.00	0.00	0.70	0.00
5.48	105.46	2.00	0.00	0.70	0.00	5.50	103.96	2.00	0.00	0.69	0.00
5.52	102.43	2.00	0.00	0.69	0.00	5.54	102.24	2.00	0.00	0.69	0.00
5.56	102.97	2.00	0.00	0.69	0.00	5.58	104.29	2.00	0.00	0.69	0.00
5.60	105.02	2.00	0.00	0.69	0.00	5.62	105.36	2.00	0.00	0.69	0.00
5.64	108.03	2.00	0.00	0.69	0.00	5.66	111.44	2.00	0.00	0.69	0.00
5.68	114.24	2.00	0.00	0.68	0.00	5.70	111.97	2.00	0.00	0.68	0.00
5.72	105.32	2.00	0.00	0.68	0.00	5.74	96.59	2.00	0.00	0.68	0.00
5.76	91.84	2.00	0.00	0.68	0.00	5.78	90.96	2.00	0.00	0.68	0.00
5.80	90.10	2.00	0.00	0.68	0.00	5.82	87.55	2.00	0.00	0.68	0.00
5.84	84.75	2.00	0.00	0.68	0.00	5.86	86.52	2.00	0.00	0.67	0.00
5.88	92.15	2.00	0.00	0.67	0.00	5.90	99.10	2.00	0.00	0.67	0.00
5.92	101.27	2.00	0.00	0.67	0.00	5.94	100.30	2.00	0.00	0.67	0.00
5.96	97.58	2.00	0.00	0.67	0.00	5.98	96.15	2.00	0.00	0.67	0.00
6.00	94.36	2.00	0.00	0.67	0.00	6.02	91.11	2.00	0.00	0.67	0.00
6.04	88.65	2.00	0.00	0.66	0.00	6.06	178.90	2.00	0.00	0.66	0.00
6.08	188.38	2.00	0.00	0.66	0.00	6.10	96.91	2.00	0.00	0.66	0.00
6.12	103.56	2.00	0.00	0.66	0.00	6.14	108.81	2.00	0.00	0.66	0.00
6.16	113.15	2.00	0.00	0.66	0.00	6.18	119.76	2.00	0.00	0.66	0.00
6.20	125.56	2.00	0.00	0.66	0.00	6.22	130.03	2.00	0.00	0.65	0.00
6.24	130.05	2.00	0.00	0.65	0.00	6.26	129.61	2.00	0.00	0.65	0.00
6.28	130.71	2.00	0.00	0.65	0.00	6.30	133.87	2.00	0.00	0.65	0.00
6.32	134.77	2.00	0.00	0.65	0.00	6.34	131.71	2.00	0.00	0.65	0.00
6.36	130.03	2.00	0.00	0.65	0.00	6.38	128.63	2.00	0.00	0.65	0.00
6.40	125.63	2.00	0.00	0.64	0.00	6.42	121.74	2.00	0.00	0.64	0.00
6.44	120.38	2.00	0.00	0.64	0.00	6.46	115.97	2.00	0.00	0.64	0.00
6.48	111.85	2.00	0.00	0.64	0.00	6.50	110.21	2.00	0.00	0.64	0.00
6.52	114.92	2.00	0.00	0.64	0.00	6.54	119.55	2.00	0.00	0.64	0.00
6.56	124.38	2.00	0.00	0.64	0.00	6.58	125.88	2.00	0.00	0.63	0.00
6.60	125.22	2.00	0.00	0.63	0.00	6.62	120.51	2.00	0.00	0.63	0.00
6.64	119.52	2.00	0.00	0.63	0.00	6.66	121.36	2.00	0.00	0.63	0.00
6.68	124.96	2.00	0.00	0.63	0.00	6.70	126.71	2.00	0.00	0.63	0.00
6.72	127.27	2.00	0.00	0.63	0.00	6.74	124.16	2.00	0.00	0.63	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
6.76	121.44	2.00	0.00	0.62	0.00	6.78	119.27	2.00	0.00	0.62	0.00
6.80	119.90	2.00	0.00	0.62	0.00	6.82	119.98	2.00	0.00	0.62	0.00
6.84	117.50	2.00	0.00	0.62	0.00	6.86	114.54	2.00	0.00	0.62	0.00
6.88	112.76	2.00	0.00	0.62	0.00	6.90	111.18	2.00	0.00	0.62	0.00
6.92	108.46	2.00	0.00	0.62	0.00	6.94	103.52	2.00	0.00	0.61	0.00
6.96	99.77	2.00	0.00	0.61	0.00	6.98	96.09	2.00	0.00	0.61	0.00
7.00	94.31	2.00	0.00	0.61	0.00	7.02	91.27	2.00	0.00	0.61	0.00
7.04	89.73	2.00	0.00	0.61	0.00	7.06	87.37	2.00	0.00	0.61	0.00
7.08	86.13	2.00	0.00	0.61	0.00	7.10	85.18	2.00	0.00	0.61	0.00
7.12	85.22	2.00	0.00	0.60	0.00	7.14	85.98	2.00	0.00	0.60	0.00
7.16	86.01	2.00	0.00	0.60	0.00	7.18	85.27	2.00	0.00	0.60	0.00
7.20	83.40	2.00	0.00	0.60	0.00	7.22	81.80	2.00	0.00	0.60	0.00
7.24	81.25	2.00	0.00	0.60	0.00	7.26	81.36	2.00	0.00	0.60	0.00
7.28	81.51	2.00	0.00	0.60	0.00	7.30	81.05	2.00	0.00	0.59	0.00
7.32	80.27	2.00	0.00	0.59	0.00	7.34	80.04	2.00	0.00	0.59	0.00
7.36	80.90	2.00	0.00	0.59	0.00	7.38	83.40	2.00	0.00	0.59	0.00
7.40	82.79	2.00	0.00	0.59	0.00	7.42	81.23	2.00	0.00	0.59	0.00
7.44	78.84	2.00	0.00	0.59	0.00	7.46	79.60	2.00	0.00	0.59	0.00
7.48	81.06	2.00	0.00	0.58	0.00	7.50	82.16	2.00	0.00	0.58	0.00
7.52	83.14	2.00	0.00	0.58	0.00	7.54	84.80	2.00	0.00	0.58	0.00
7.56	85.87	2.00	0.00	0.58	0.00	7.58	86.54	2.00	0.00	0.58	0.00
7.60	86.93	2.00	0.00	0.58	0.00	7.62	88.69	2.00	0.00	0.58	0.00
7.64	90.48	2.00	0.00	0.58	0.00	7.66	90.68	2.00	0.00	0.57	0.00
7.68	89.62	2.00	0.00	0.57	0.00	7.70	88.15	2.00	0.00	0.57	0.00
7.72	87.82	2.00	0.00	0.57	0.00	7.74	87.96	2.00	0.00	0.57	0.00
7.76	89.86	2.00	0.00	0.57	0.00	7.78	87.82	2.00	0.00	0.57	0.00
7.80	82.41	2.00	0.00	0.57	0.00	7.82	133.68	2.00	0.00	0.57	0.00
7.84	69.10	2.00	0.00	0.56	0.00	7.86	69.71	2.00	0.00	0.56	0.00
7.88	71.20	2.00	0.00	0.56	0.00	7.90	74.76	2.00	0.00	0.56	0.00
7.92	82.06	2.00	0.00	0.56	0.00	7.94	125.57	2.00	0.00	0.56	0.00
7.96	209.14	2.00	0.00	0.56	0.00	7.98	111.82	2.00	0.00	0.56	0.00
8.00	241.49	2.00	0.00	0.56	0.00	8.02	204.08	2.00	0.00	0.55	0.00
8.04	186.33	2.00	0.00	0.55	0.00	8.06	202.86	2.00	0.00	0.55	0.00
8.08	111.03	2.00	0.00	0.55	0.00	8.10	108.40	2.00	0.00	0.55	0.00
8.12	105.86	2.00	0.00	0.55	0.00	8.14	106.50	2.00	0.00	0.55	0.00
8.16	228.46	2.00	0.00	0.55	0.00	8.18	194.83	2.00	0.00	0.55	0.00
8.20	193.32	2.00	0.00	0.54	0.00	8.22	225.46	2.00	0.00	0.54	0.00
8.24	108.35	2.00	0.00	0.54	0.00	8.26	102.70	2.00	0.00	0.54	0.00
8.28	97.47	2.00	0.00	0.54	0.00	8.30	95.30	2.00	0.00	0.54	0.00
8.32	91.97	2.00	0.00	0.54	0.00	8.34	86.23	2.00	0.00	0.54	0.00
8.36	107.47	2.00	0.00	0.54	0.00	8.38	78.18	2.00	0.00	0.53	0.00
8.40	78.02	2.00	0.00	0.53	0.00	8.42	78.75	2.00	0.00	0.53	0.00
8.44	80.35	2.00	0.00	0.53	0.00	8.46	97.42	2.00	0.00	0.53	0.00
8.48	147.11	2.00	0.00	0.53	0.00	8.50	161.75	2.00	0.00	0.53	0.00
8.52	73.52	2.00	0.00	0.53	0.00	8.54	70.32	2.00	0.00	0.53	0.00
8.56	70.26	2.00	0.00	0.52	0.00	8.58	71.28	2.00	0.00	0.52	0.00
8.60	73.10	2.00	0.00	0.52	0.00	8.62	78.62	2.00	0.00	0.52	0.00
8.64	131.55	2.00	0.00	0.52	0.00	8.66	102.20	2.00	0.00	0.52	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
8.68	105.63	2.00	0.00	0.52	0.00	8.70	105.26	2.00	0.00	0.52	0.00
8.72	103.54	2.00	0.00	0.52	0.00	8.74	102.00	2.00	0.00	0.51	0.00
8.76	100.20	2.00	0.00	0.51	0.00	8.78	202.88	2.00	0.00	0.51	0.00
8.80	154.28	2.00	0.00	0.51	0.00	8.82	119.97	2.00	0.00	0.51	0.00
8.84	110.41	2.00	0.00	0.51	0.00	8.86	122.61	2.00	0.00	0.51	0.00
8.88	144.17	2.00	0.00	0.51	0.00	8.90	174.43	2.00	0.00	0.51	0.00
8.92	185.65	2.00	0.00	0.50	0.00	8.94	177.47	2.00	0.00	0.50	0.00
8.96	163.19	2.00	0.00	0.50	0.00	8.98	151.24	2.00	0.00	0.50	0.00
9.00	98.87	2.00	0.00	0.50	0.00	9.02	82.58	2.00	0.00	0.50	0.00
9.04	77.76	2.00	0.00	0.50	0.00	9.06	72.73	2.00	0.00	0.50	0.00
9.08	75.33	2.00	0.00	0.50	0.00	9.10	80.20	2.00	0.00	0.49	0.00
9.12	90.75	2.00	0.00	0.49	0.00	9.14	118.87	2.00	0.00	0.49	0.00
9.16	164.46	2.00	0.00	0.49	0.00	9.18	221.93	2.00	0.00	0.49	0.00
9.20	116.40	2.00	0.00	0.49	0.00	9.22	116.32	2.00	0.00	0.49	0.00
9.24	114.84	2.00	0.00	0.49	0.00	9.26	110.42	2.00	0.00	0.49	0.00
9.28	104.79	2.00	0.00	0.48	0.00	9.30	146.13	2.00	0.00	0.48	0.00
9.32	98.57	2.00	0.00	0.48	0.00	9.34	91.28	2.00	0.00	0.48	0.00
9.36	89.68	2.00	0.00	0.48	0.00	9.38	86.88	2.00	0.00	0.48	0.00
9.40	126.38	2.00	0.00	0.48	0.00	9.42	204.87	2.00	0.00	0.48	0.00
9.44	123.26	2.00	0.00	0.48	0.00	9.46	129.53	2.00	0.00	0.47	0.00
9.48	128.32	2.00	0.00	0.47	0.00	9.50	123.42	2.00	0.00	0.47	0.00
9.52	117.44	2.00	0.00	0.47	0.00	9.54	110.99	2.00	0.00	0.47	0.00
9.56	218.81	2.00	0.00	0.47	0.00	9.58	145.36	2.00	0.00	0.47	0.00
9.60	108.94	2.00	0.00	0.47	0.00	9.62	99.63	1.96	0.00	0.47	0.00
9.64	94.68	1.82	0.00	0.46	0.00	9.66	94.95	1.82	0.00	0.46	0.00
9.68	94.75	1.82	0.00	0.46	0.00	9.70	94.94	1.82	0.00	0.46	0.00
9.72	95.30	1.84	0.00	0.46	0.00	9.74	119.16	2.00	0.00	0.46	0.00
9.76	144.57	2.00	0.00	0.46	0.00	9.78	122.11	2.00	0.00	0.46	0.00
9.80	100.61	2.00	0.00	0.46	0.00	9.82	96.97	2.00	0.00	0.45	0.00
9.84	109.27	2.00	0.00	0.45	0.00	9.86	130.40	2.00	0.00	0.45	0.00
9.88	137.69	2.00	0.00	0.45	0.00	9.90	164.30	2.00	0.00	0.45	0.00
9.92	202.74	2.00	0.00	0.45	0.00	9.94	114.17	2.00	0.00	0.45	0.00
9.96	235.53	2.00	0.00	0.45	0.00	9.98	217.01	2.00	0.00	0.45	0.00
10.00	227.45	2.00	0.00	0.44	0.00	10.02	112.26	2.00	0.00	0.44	0.00
10.04	113.05	2.00	0.00	0.44	0.00	10.06	113.13	2.00	0.00	0.44	0.00
10.08	223.78	2.00	0.00	0.44	0.00	10.10	171.90	2.00	0.00	0.44	0.00
10.12	126.54	2.00	0.00	0.44	0.00	10.14	93.44	2.00	0.00	0.44	0.00
10.16	96.47	2.00	0.00	0.44	0.00	10.18	94.28	2.00	0.00	0.43	0.00
10.20	92.07	1.76	0.00	0.43	0.00	10.22	89.89	1.70	0.00	0.43	0.00
10.24	87.79	1.65	0.00	0.43	0.00	10.26	84.26	1.56	0.00	0.43	0.00
10.28	81.14	2.00	0.00	0.43	0.00	10.30	89.48	2.00	0.00	0.43	0.00
10.32	151.17	2.00	0.00	0.43	0.00	10.34	119.14	2.00	0.00	0.43	0.00
10.36	118.23	2.00	0.00	0.42	0.00	10.38	113.42	2.00	0.00	0.42	0.00
10.40	208.64	2.00	0.00	0.42	0.00	10.42	136.14	2.00	0.00	0.42	0.00
10.44	90.42	2.00	0.00	0.42	0.00	10.46	87.96	2.00	0.00	0.42	0.00
10.48	86.48	2.00	0.00	0.42	0.00	10.50	121.86	2.00	0.00	0.42	0.00
10.52	161.24	2.00	0.00	0.42	0.00	10.54	222.11	2.00	0.00	0.41	0.00
10.56	113.25	2.00	0.00	0.41	0.00	10.58	207.42	2.00	0.00	0.41	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
10.60	119.68	2.00	0.00	0.41	0.00	10.62	98.97	2.00	0.00	0.41	0.00
10.64	97.71	2.00	0.00	0.41	0.00	10.66	96.46	2.00	0.00	0.41	0.00
10.68	100.69	2.00	0.00	0.41	0.00	10.70	182.91	2.00	0.00	0.41	0.00
10.72	105.60	2.00	0.00	0.40	0.00	10.74	110.14	2.00	0.00	0.40	0.00
10.76	106.49	2.00	0.00	0.40	0.00	10.78	106.46	2.00	0.00	0.40	0.00
10.80	104.78	2.00	0.00	0.40	0.00	10.82	101.93	2.00	0.00	0.40	0.00
10.84	208.08	2.00	0.00	0.40	0.00	10.86	98.75	2.00	0.00	0.40	0.00
10.88	101.04	2.00	0.00	0.40	0.00	10.90	104.48	2.00	0.00	0.39	0.00
10.92	104.30	2.00	0.00	0.39	0.00	10.94	103.01	2.00	0.00	0.39	0.00
10.96	97.50	2.00	0.00	0.39	0.00	10.98	94.13	2.00	0.00	0.39	0.00
11.00	90.20	2.00	0.00	0.39	0.00	11.02	90.03	2.00	0.00	0.39	0.00
11.04	91.10	2.00	0.00	0.39	0.00	11.06	92.58	2.00	0.00	0.39	0.00
11.08	91.00	2.00	0.00	0.38	0.00	11.10	86.29	2.00	0.00	0.38	0.00
11.12	82.52	2.00	0.00	0.38	0.00	11.14	113.43	2.00	0.00	0.38	0.00
11.16	93.30	2.00	0.00	0.38	0.00	11.18	84.09	2.00	0.00	0.38	0.00
11.20	75.97	2.00	0.00	0.38	0.00	11.22	75.51	2.00	0.00	0.38	0.00
11.24	76.53	1.43	0.00	0.38	0.00	11.26	78.74	1.47	0.00	0.37	0.00
11.28	80.25	1.50	0.00	0.37	0.00	11.30	83.49	2.00	0.00	0.37	0.00
11.32	87.99	2.00	0.00	0.37	0.00	11.34	140.41	2.00	0.00	0.37	0.00
11.36	105.02	2.00	0.00	0.37	0.00	11.38	115.93	2.00	0.00	0.37	0.00
11.40	117.99	2.00	0.00	0.37	0.00	11.42	109.58	2.00	0.00	0.37	0.00
11.44	98.27	2.00	0.00	0.36	0.00	11.46	106.37	2.00	0.00	0.36	0.00
11.48	77.67	2.00	0.00	0.36	0.00	11.50	72.65	2.00	0.00	0.36	0.00
11.52	117.71	2.00	0.00	0.36	0.00	11.54	175.80	2.00	0.00	0.36	0.00
11.56	88.05	2.00	0.00	0.36	0.00	11.58	90.33	2.00	0.00	0.36	0.00
11.60	94.39	2.00	0.00	0.36	0.00	11.62	99.38	2.00	0.00	0.35	0.00
11.64	101.71	2.00	0.00	0.35	0.00	11.66	101.79	2.00	0.00	0.35	0.00
11.68	100.81	2.00	0.00	0.35	0.00	11.70	98.65	2.00	0.00	0.35	0.00
11.72	95.58	2.00	0.00	0.35	0.00	11.74	89.94	2.00	0.00	0.35	0.00
11.76	87.27	2.00	0.00	0.35	0.00	11.78	87.25	2.00	0.00	0.35	0.00
11.80	87.82	2.00	0.00	0.34	0.00	11.82	88.22	2.00	0.00	0.34	0.00
11.84	87.26	2.00	0.00	0.34	0.00	11.86	87.79	2.00	0.00	0.34	0.00
11.88	86.53	2.00	0.00	0.34	0.00	11.90	84.31	2.00	0.00	0.34	0.00
11.92	82.25	2.00	0.00	0.34	0.00	11.94	80.88	2.00	0.00	0.34	0.00
11.96	80.75	2.00	0.00	0.34	0.00	11.98	80.62	2.00	0.00	0.33	0.00
12.00	81.44	2.00	0.00	0.33	0.00	12.02	81.88	2.00	0.00	0.33	0.00
12.04	82.52	2.00	0.00	0.33	0.00	12.06	82.78	2.00	0.00	0.33	0.00
12.08	83.72	2.00	0.00	0.33	0.00	12.10	84.97	2.00	0.00	0.33	0.00
12.12	84.92	2.00	0.00	0.33	0.00	12.14	84.20	2.00	0.00	0.33	0.00
12.16	84.40	2.00	0.00	0.32	0.00	12.18	87.49	2.00	0.00	0.32	0.00
12.20	89.07	2.00	0.00	0.32	0.00	12.22	89.19	2.00	0.00	0.32	0.00
12.24	84.37	2.00	0.00	0.32	0.00	12.26	81.59	2.00	0.00	0.32	0.00
12.28	81.62	2.00	0.00	0.32	0.00	12.30	89.62	2.00	0.00	0.32	0.00
12.32	97.00	2.00	0.00	0.32	0.00	12.34	102.20	2.00	0.00	0.31	0.00
12.36	101.92	2.00	0.00	0.31	0.00	12.38	100.67	2.00	0.00	0.31	0.00
12.40	96.30	2.00	0.00	0.31	0.00	12.42	90.44	2.00	0.00	0.31	0.00
12.44	83.08	2.00	0.00	0.31	0.00	12.46	79.10	2.00	0.00	0.31	0.00
12.48	77.44	2.00	0.00	0.31	0.00	12.50	77.48	2.00	0.00	0.31	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
12.52	77.21	2.00	0.00	0.30	0.00	12.54	77.35	2.00	0.00	0.30	0.00
12.56	77.18	2.00	0.00	0.30	0.00	12.58	76.83	2.00	0.00	0.30	0.00
12.60	75.93	2.00	0.00	0.30	0.00	12.62	75.27	2.00	0.00	0.30	0.00
12.64	74.87	2.00	0.00	0.30	0.00	12.66	75.47	2.00	0.00	0.30	0.00
12.68	76.26	2.00	0.00	0.30	0.00	12.70	77.18	2.00	0.00	0.29	0.00
12.72	77.76	2.00	0.00	0.29	0.00	12.74	77.95	2.00	0.00	0.29	0.00
12.76	77.96	2.00	0.00	0.29	0.00	12.78	77.54	2.00	0.00	0.29	0.00
12.80	76.84	2.00	0.00	0.29	0.00	12.82	75.70	2.00	0.00	0.29	0.00
12.84	74.22	2.00	0.00	0.29	0.00	12.86	72.80	2.00	0.00	0.29	0.00
12.88	71.84	2.00	0.00	0.28	0.00	12.90	71.72	2.00	0.00	0.28	0.00
12.92	72.04	2.00	0.00	0.28	0.00	12.94	72.67	2.00	0.00	0.28	0.00
12.96	72.83	2.00	0.00	0.28	0.00	12.98	72.66	2.00	0.00	0.28	0.00
13.00	72.15	2.00	0.00	0.28	0.00	13.02	71.78	2.00	0.00	0.28	0.00
13.04	71.62	2.00	0.00	0.28	0.00	13.06	71.37	2.00	0.00	0.27	0.00
13.08	70.89	2.00	0.00	0.27	0.00	13.10	70.60	2.00	0.00	0.27	0.00
13.12	70.48	2.00	0.00	0.27	0.00	13.14	70.57	2.00	0.00	0.27	0.00
13.16	70.12	2.00	0.00	0.27	0.00	13.18	69.83	2.00	0.00	0.27	0.00
13.20	70.79	2.00	0.00	0.27	0.00	13.22	73.46	2.00	0.00	0.27	0.00
13.24	76.66	2.00	0.00	0.26	0.00	13.26	79.72	2.00	0.00	0.26	0.00
13.28	82.33	2.00	0.00	0.26	0.00	13.30	84.45	2.00	0.00	0.26	0.00
13.32	84.67	2.00	0.00	0.26	0.00	13.34	83.18	2.00	0.00	0.26	0.00
13.36	81.59	1.61	0.00	0.26	0.00	13.38	69.39	1.37	0.00	0.26	0.00
13.40	131.71	2.00	0.00	0.26	0.00	13.42	188.11	2.00	0.00	0.25	0.00
13.44	201.95	2.00	0.00	0.25	0.00	13.46	211.90	2.00	0.00	0.25	0.00
13.48	216.36	2.00	0.00	0.25	0.00	13.50	227.24	2.00	0.00	0.25	0.00
13.52	230.55	2.00	0.00	0.25	0.00	13.54	234.97	2.00	0.00	0.25	0.00
13.56	228.69	2.00	0.00	0.25	0.00	13.58	218.62	2.00	0.00	0.25	0.00
13.60	204.04	2.00	0.00	0.24	0.00	13.62	191.07	2.00	0.00	0.24	0.00
13.64	183.63	2.00	0.00	0.24	0.00	13.66	185.28	2.00	0.00	0.24	0.00
13.68	196.32	2.00	0.00	0.24	0.00	13.70	206.40	2.00	0.00	0.24	0.00
13.72	214.78	2.00	0.00	0.24	0.00	13.74	218.32	2.00	0.00	0.24	0.00
13.76	219.18	2.00	0.00	0.24	0.00	13.78	219.64	2.00	0.00	0.23	0.00
13.80	220.62	2.00	0.00	0.23	0.00	13.82	223.93	2.00	0.00	0.23	0.00
13.84	226.10	2.00	0.00	0.23	0.00	13.86	221.38	2.00	0.00	0.23	0.00
13.88	214.30	2.00	0.00	0.23	0.00	13.90	199.74	2.00	0.00	0.23	0.00
13.92	191.01	2.00	0.00	0.23	0.00	13.94	183.60	2.00	0.00	0.23	0.00
13.96	185.80	2.00	0.00	0.22	0.00	13.98	185.60	2.00	0.00	0.22	0.00
14.00	179.51	2.00	0.00	0.22	0.00	14.02	181.20	2.00	0.00	0.22	0.00
14.04	188.36	2.00	0.00	0.22	0.00	14.06	193.33	2.00	0.00	0.22	0.00
14.08	201.98	2.00	0.00	0.22	0.00	14.10	226.53	2.00	0.00	0.22	0.00
14.12	250.31	2.00	0.00	0.22	0.00	14.14	270.61	2.00	0.00	0.21	0.00
14.16	285.57	2.00	0.00	0.21	0.00	14.18	304.91	2.00	0.00	0.21	0.00
14.20	318.77	2.00	0.00	0.21	0.00	14.22	336.69	2.00	0.00	0.21	0.00
14.24	349.68	2.00	0.00	0.21	0.00	14.26	362.40	2.00	0.00	0.21	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)

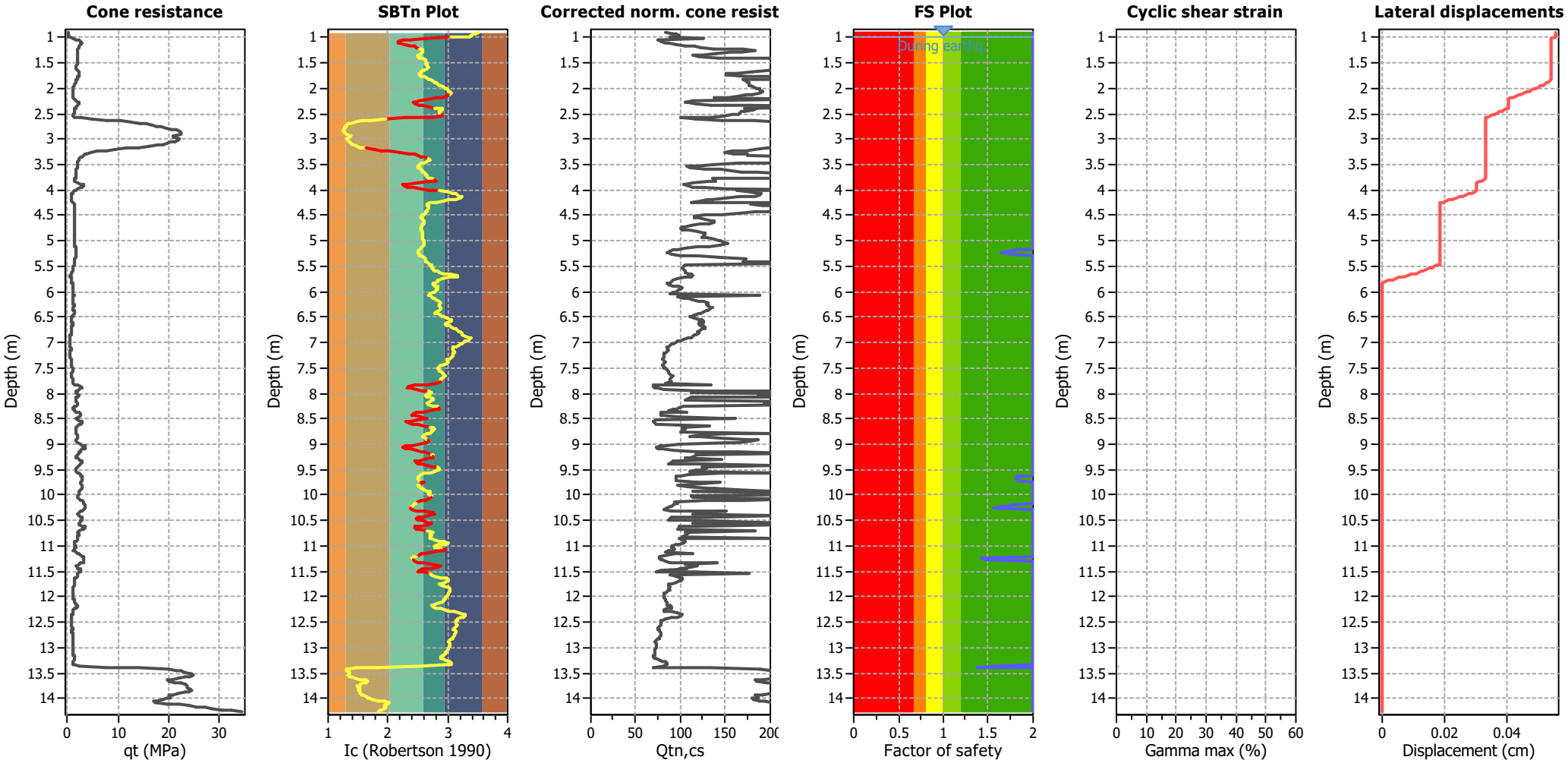
Total estimated settlement: 0.00

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Estimation of post-earthquake lateral Displacements

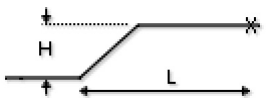
Geometric parameters: Level ground (or gently sloping) with free face (L: 41.40 m - H: 2.90 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
1.00	0.52	10.04	2.99	88.51	2.00	0.00	0.09	0.00
1.02	1.05	20.47	1.81	125.21	2.00	14.64	0.00	0.00
1.04	1.69	33.12	1.36	74.64	2.00	30.53	0.00	0.00
1.06	2.23	43.77	1.21	76.46	2.00	39.73	0.00	0.00
1.08	2.56	50.17	1.13	78.80	2.00	44.23	0.00	0.00
1.10	2.75	53.97	1.16	82.54	2.00	46.65	0.00	0.00
1.12	2.78	54.56	1.32	87.02	2.00	47.00	0.00	0.00
1.14	2.62	51.27	1.67	94.69	2.00	44.95	0.00	0.00
1.16	2.42	47.34	2.09	104.73	2.00	42.32	0.00	0.00
1.18	2.27	44.41	2.49	114.91	2.00	40.21	0.00	0.00
1.20	2.18	42.75	2.78	122.35	2.00	38.95	0.00	0.00
1.22	2.10	41.13	3.08	136.53	2.00	37.68	0.00	0.00
1.24	1.98	38.75	3.32	168.99	2.00	35.71	0.00	0.00
1.26	1.90	37.21	3.38	183.12	2.00	34.37	0.00	0.00
1.28	1.88	36.64	3.21	168.42	2.00	33.86	0.00	0.00
1.30	1.86	36.33	3.07	156.60	2.00	33.58	0.00	0.00
1.32	1.88	36.74	2.91	139.61	2.00	33.95	0.00	0.00
1.34	1.94	37.94	2.78	123.06	2.00	35.01	0.00	0.00
1.36	2.05	40.12	2.76	113.44	2.00	36.86	0.00	0.00
1.38	2.13	41.53	2.90	120.17	2.00	38.00	0.00	0.00
1.40	2.15	41.92	3.18	142.58	2.00	38.30	0.00	0.00
1.42	2.05	40.01	3.67	198.55	2.00	36.76	0.00	0.00
1.44	2.03	39.63	4.01	237.85	2.00	36.45	0.00	0.00
1.46	2.02	39.39	4.25	268.11	2.00	36.25	0.00	0.00
1.48	2.04	39.86	4.24	264.31	2.00	36.64	0.00	0.00
1.50	2.00	39.01	4.32	279.99	2.00	35.93	0.00	0.00
1.52	1.97	38.50	4.20	268.57	2.00	35.49	0.00	0.00
1.54	1.93	37.64	4.11	263.73	2.00	34.75	0.00	0.00
1.56	1.86	36.17	4.00	261.15	2.00	33.44	0.00	0.00
1.58	1.77	34.40	4.17	296.42	2.00	31.77	0.00	0.00
1.60	1.77	34.44	4.16	295.38	2.00	31.82	0.00	0.00
1.62	1.85	35.93	4.10	275.61	2.00	33.22	0.00	0.00
1.64	1.99	38.77	3.87	228.93	2.00	35.72	0.00	0.00
1.66	2.10	40.98	3.71	198.61	2.00	37.56	0.00	0.00
1.68	2.18	42.56	3.59	179.41	2.00	38.80	0.00	0.00
1.70	2.23	43.47	3.46	162.80	2.00	39.50	0.00	0.00
1.72	2.33	45.42	3.40	150.19	2.00	40.95	0.00	0.00
1.74	2.35	45.82	3.42	150.23	2.00	41.24	0.00	0.00
1.76	2.29	44.64	3.61	172.20	2.00	40.38	0.00	0.00
1.78	2.14	41.57	3.92	218.83	2.00	38.02	0.00	0.00
1.80	2.01	39.08	4.26	273.14	2.00	35.99	0.00	0.00
1.82	1.90	36.89	4.62	338.25	2.00	34.08	0.00	0.00
1.84	1.80	34.97	4.84	169.77	2.00	32.32	0.03	0.00
1.86	1.70	33.02	5.07	172.15	2.00	30.43	0.04	0.00
1.88	1.64	31.67	5.25	173.99	2.00	29.05	0.04	0.00
1.90	1.57	30.42	5.44	175.74	2.00	27.72	0.04	0.00
1.92	1.50	29.04	5.63	176.97	2.00	26.19	0.04	0.00
1.94	1.40	27.04	5.85	177.11	2.00	23.83	0.05	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
1.96	1.31	25.30	6.14	178.41	2.00	21.63	0.05	0.00
1.98	1.24	23.92	6.52	181.49	2.00	19.78	0.05	0.00
2.00	1.17	22.46	7.01	185.35	2.00	17.71	0.05	0.00
2.02	1.13	21.59	7.32	187.36	2.00	16.40	0.06	0.00
2.04	1.12	21.43	7.43	188.42	2.00	16.16	0.06	0.00
2.06	1.13	21.59	7.56	191.04	2.00	16.40	0.06	0.00
2.08	1.09	20.84	7.77	191.42	2.00	15.24	0.06	0.00
2.10	1.03	19.59	7.86	188.22	2.00	13.20	0.06	0.00
2.12	0.99	18.85	7.47	180.11	2.00	11.92	0.06	0.00
2.14	1.00	18.98	6.88	172.23	2.00	12.15	0.06	0.00
2.16	1.03	19.55	6.19	164.00	2.00	13.13	0.06	0.00
2.18	1.09	20.89	5.24	152.16	2.00	15.31	0.06	0.00
2.20	1.24	23.65	4.18	137.92	2.00	19.41	0.05	0.00
2.22	1.47	28.20	3.22	231.71	2.00	25.22	0.00	0.00
2.24	1.81	34.96	2.51	114.33	2.00	32.31	0.00	0.00
2.26	2.08	40.40	2.22	104.91	2.00	37.09	0.00	0.00
2.28	2.25	43.61	2.22	106.65	2.00	39.61	0.00	0.00
2.30	2.22	43.12	2.56	116.75	2.00	39.23	0.00	0.00
2.32	2.12	41.12	3.03	134.32	2.00	37.67	0.00	0.00
2.34	2.04	39.40	3.41	177.53	2.00	36.25	0.00	0.00
2.36	1.81	35.03	4.18	297.39	2.00	32.38	0.00	0.00
2.38	1.59	30.54	5.18	171.11	2.00	27.86	0.04	0.00
2.40	1.34	25.65	6.38	184.23	2.00	22.09	0.05	0.00
2.42	1.28	24.54	6.34	180.75	2.00	20.64	0.05	0.00
2.44	1.34	25.71	5.65	170.98	2.00	22.16	0.05	0.00
2.46	1.35	25.80	5.44	167.23	2.00	22.28	0.05	0.00
2.48	1.30	24.82	5.52	166.65	2.00	21.01	0.05	0.00
2.50	1.18	22.42	5.71	164.43	2.00	17.65	0.05	0.00
2.52	1.11	21.08	5.50	157.65	2.00	15.61	0.06	0.00
2.54	1.10	20.83	5.01	148.63	2.00	15.22	0.06	0.00
2.56	1.30	24.79	3.89	134.20	2.00	20.96	0.05	0.00
2.58	2.64	51.20	1.84	100.16	2.00	44.91	0.00	0.00
2.60	4.69	91.71	1.08	117.25	2.00	64.14	0.00	0.00
2.62	7.72	145.44	0.74	145.44	2.00	79.36	0.00	0.00
2.64	10.30	180.63	0.58	180.63	2.00	86.52	0.00	0.00
2.66	12.56	208.69	0.47	208.69	2.00	91.28	0.00	0.00
2.68	14.22	226.99	0.38	226.99	2.00	94.06	0.00	0.00
2.70	15.52	242.36	0.36	242.36	2.00	96.22	0.00	0.00
2.72	16.71	257.41	0.35	257.41	2.00	98.21	0.00	0.00
2.74	17.67	269.64	0.35	269.64	2.00	99.74	0.00	0.00
2.76	18.65	282.10	0.35	282.10	2.00	100.00	0.00	0.00
2.78	19.61	294.71	0.36	294.71	2.00	100.00	0.00	0.00
2.80	20.67	309.06	0.37	309.06	2.00	100.00	0.00	0.00
2.82	21.55	321.53	0.39	321.53	2.00	100.00	0.00	0.00
2.84	22.23	331.49	0.41	331.49	2.00	100.00	0.00	0.00
2.86	22.45	336.68	0.44	336.68	2.00	100.00	0.00	0.00
2.88	22.55	339.20	0.46	339.20	2.00	100.00	0.00	0.00
2.90	22.52	340.36	0.49	340.36	2.00	100.00	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
2.92	21.28	329.18	0.57	329.18	2.00	100.00	0.00	0.00
2.94	21.05	325.67	0.57	325.67	2.00	100.00	0.00	0.00
2.96	20.93	322.69	0.56	322.69	2.00	100.00	0.00	0.00
2.98	22.09	331.00	0.47	331.00	2.00	100.00	0.00	0.00
3.00	22.14	331.75	0.48	331.75	2.00	100.00	0.00	0.00
3.02	21.80	327.73	0.50	327.73	2.00	100.00	0.00	0.00
3.04	21.20	320.69	0.52	320.69	2.00	100.00	0.00	0.00
3.06	20.43	310.94	0.54	310.94	2.00	100.00	0.00	0.00
3.08	19.71	301.85	0.56	301.85	2.00	100.00	0.00	0.00
3.10	18.90	291.65	0.58	291.65	2.00	100.00	0.00	0.00
3.12	17.99	279.75	0.60	279.75	2.00	100.00	0.00	0.00
3.14	16.29	257.74	0.64	257.74	2.00	98.25	0.00	0.00
3.16	14.18	230.25	0.71	230.25	2.00	94.53	0.00	0.00
3.18	11.67	196.83	0.84	196.83	2.00	89.35	0.00	0.00
3.20	9.54	167.90	1.03	183.40	2.00	84.10	0.00	0.00
3.22	7.59	140.61	1.32	172.45	2.00	78.25	0.00	0.00
3.24	6.06	118.21	1.74	157.06	2.00	72.52	0.00	0.00
3.26	4.78	93.26	2.37	149.01	2.00	64.70	0.00	0.00
3.28	3.95	76.92	3.11	159.79	2.00	58.34	0.00	0.00
3.30	3.40	65.97	3.82	175.07	2.00	53.27	0.00	0.00
3.32	3.16	61.19	4.20	174.25	2.00	50.79	0.00	0.00
3.34	2.90	56.09	4.63	232.84	2.00	47.91	0.00	0.00
3.36	2.63	50.74	5.16	320.40	2.00	44.61	0.00	0.00
3.38	2.42	46.66	5.62	411.52	2.00	41.84	0.00	0.00
3.40	2.29	44.10	5.72	447.50	2.00	39.98	0.00	0.00
3.42	2.21	42.47	5.44	419.84	2.00	38.74	0.00	0.00
3.44	2.15	41.33	4.67	319.24	2.00	37.84	0.00	0.00
3.46	2.10	40.24	3.90	230.71	2.00	36.95	0.00	0.00
3.48	2.05	39.22	3.24	165.00	2.00	36.11	0.00	0.00
3.50	2.02	38.59	2.91	137.25	2.00	35.57	0.00	0.00
3.52	2.00	38.27	2.68	117.95	2.00	35.30	0.00	0.00
3.54	1.98	37.92	2.52	106.72	2.00	34.99	0.00	0.00
3.56	1.93	36.85	2.52	110.61	2.00	34.05	0.00	0.00
3.58	1.84	35.11	2.63	127.32	2.00	32.45	0.00	0.00
3.60	1.80	34.36	2.77	144.10	2.00	31.74	0.00	0.00
3.62	1.80	34.26	2.89	156.16	2.00	31.64	0.00	0.00
3.64	1.79	34.12	3.00	168.61	2.00	31.51	0.00	0.00
3.66	1.75	33.29	3.13	187.11	2.00	30.69	0.00	0.00
3.68	1.69	32.14	3.28	212.86	2.00	29.54	0.00	0.00
3.70	1.68	31.79	3.34	223.28	2.00	29.17	0.00	0.00
3.72	1.68	31.94	3.33	220.92	2.00	29.33	0.00	0.00
3.74	1.66	31.45	3.37	229.08	2.00	28.81	0.00	0.00
3.76	1.56	29.54	3.53	267.93	2.00	26.75	0.00	0.00
3.78	1.42	26.64	3.81	136.39	2.00	23.35	0.05	0.00
3.80	1.31	24.48	4.02	138.02	2.00	20.55	0.05	0.00
3.82	1.26	23.56	4.11	138.52	2.00	19.29	0.05	0.00
3.84	1.45	27.25	3.56	131.46	2.00	24.09	0.05	0.00
3.86	2.05	39.06	2.52	114.06	2.00	35.97	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
3.88	2.74	52.78	1.93	104.25	2.00	45.91	0.00	0.00
3.90	3.21	60.81	1.72	103.68	2.00	50.58	0.00	0.00
3.92	3.19	60.71	1.89	108.51	2.00	50.53	0.00	0.00
3.94	2.92	56.35	2.17	114.25	2.00	48.07	0.00	0.00
3.96	2.53	48.52	2.62	123.31	2.00	43.13	0.00	0.00
3.98	2.10	40.11	3.13	152.10	2.00	36.85	0.00	0.00
4.00	1.68	31.76	3.98	309.82	2.00	29.14	0.00	0.00
4.02	1.35	25.23	5.16	162.84	2.00	21.54	0.05	0.00
4.04	1.10	20.35	6.77	178.48	2.00	14.44	0.06	0.00
4.06	0.98	17.96	7.95	186.96	2.00	10.33	0.06	0.00
4.08	0.92	16.66	8.60	189.85	2.00	7.86	0.07	0.00
4.10	0.88	15.86	8.69	187.37	2.00	6.22	0.07	0.00
4.12	0.82	14.73	8.76	182.86	2.00	3.78	0.07	0.00
4.14	0.69	12.22	8.44	166.83	2.00	0.00	0.08	0.00
4.16	0.67	11.73	7.18	151.18	2.00	0.00	0.08	0.00
4.18	0.68	11.91	5.71	135.27	2.00	0.00	0.08	0.00
4.20	0.80	14.32	4.74	130.26	2.00	2.86	0.07	0.00
4.22	0.89	16.06	3.96	122.38	2.00	6.65	0.07	0.00
4.24	1.05	19.30	3.12	112.19	2.00	12.70	0.06	0.00
4.26	1.22	22.64	2.65	224.15	2.00	17.97	0.00	0.00
4.28	1.35	25.18	2.50	178.56	2.00	21.48	0.00	0.00
4.30	1.39	25.92	2.66	191.41	2.00	22.44	0.00	0.00
4.32	1.39	25.95	2.84	214.40	2.00	22.47	0.00	0.00
4.34	1.38	25.75	2.98	235.26	2.00	22.23	0.00	0.00
4.36	1.39	25.98	3.03	239.98	2.00	22.51	0.00	0.00
4.38	1.42	26.58	3.01	230.31	2.00	23.27	0.00	0.00
4.40	1.47	27.43	2.95	213.69	2.00	24.31	0.00	0.00
4.42	1.50	28.06	2.85	196.39	2.00	25.06	0.00	0.00
4.44	1.51	28.23	2.75	182.48	2.00	25.25	0.00	0.00
4.46	1.50	28.04	2.60	166.66	2.00	25.03	0.00	0.00
4.48	1.49	27.88	2.39	145.50	2.00	24.84	0.00	0.00
4.50	1.49	27.85	2.22	127.44	2.00	24.80	0.00	0.00
4.52	1.49	27.83	2.09	114.97	2.00	24.78	0.00	0.00
4.54	1.48	27.52	2.07	115.10	2.00	24.41	0.00	0.00
4.56	1.45	27.04	2.09	119.63	2.00	23.84	0.00	0.00
4.58	1.42	26.50	2.13	127.82	2.00	23.17	0.00	0.00
4.60	1.40	26.05	2.16	133.35	2.00	22.61	0.00	0.00
4.62	1.39	25.75	2.17	136.84	2.00	22.22	0.00	0.00
4.64	1.38	25.56	2.16	136.88	2.00	21.98	0.00	0.00
4.66	1.39	25.64	2.12	131.79	2.00	22.08	0.00	0.00
4.68	1.41	25.92	2.04	122.41	2.00	22.43	0.00	0.00
4.70	1.44	26.27	1.97	112.39	2.00	22.87	0.00	0.00
4.72	1.46	26.39	1.90	104.93	2.00	23.03	0.00	0.00
4.74	1.46	26.33	1.86	101.53	2.00	22.95	0.00	0.00
4.76	1.46	26.22	1.83	99.73	2.00	22.82	0.00	0.00
4.78	1.45	26.13	1.85	102.30	2.00	22.70	0.00	0.00
4.80	1.44	25.94	1.91	108.84	2.00	22.46	0.00	0.00
4.82	1.43	25.72	1.99	117.89	2.00	22.18	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
4.84	1.43	25.75	2.06	124.86	2.00	22.21	0.00	0.00
4.86	1.46	26.19	2.11	127.28	2.00	22.78	0.00	0.00
4.88	1.50	26.85	2.14	126.56	2.00	23.60	0.00	0.00
4.90	1.53	27.33	2.16	125.30	2.00	24.19	0.00	0.00
4.92	1.55	27.49	2.15	123.27	2.00	24.38	0.00	0.00
4.94	1.54	27.44	2.20	129.13	2.00	24.31	0.00	0.00
4.96	1.54	27.36	2.27	136.50	2.00	24.22	0.00	0.00
4.98	1.54	27.40	2.33	142.60	2.00	24.27	0.00	0.00
5.00	1.54	27.33	2.33	143.74	2.00	24.19	0.00	0.00
5.02	1.54	27.13	2.35	147.36	2.00	23.94	0.00	0.00
5.04	1.52	26.78	2.38	152.32	2.00	23.52	0.00	0.00
5.06	1.51	26.63	2.36	151.28	2.00	23.33	0.00	0.00
5.08	1.52	26.67	2.29	143.50	2.00	23.38	0.00	0.00
5.10	1.55	26.97	2.20	132.46	2.00	23.74	0.00	0.00
5.12	1.60	27.62	2.10	118.20	2.00	24.53	0.00	0.00
5.14	1.66	28.43	2.01	105.28	2.00	25.49	0.00	0.00
5.16	1.71	29.20	1.96	96.61	1.97	26.36	0.00	0.00
5.18	1.75	29.66	1.92	91.70	1.82	26.89	0.00	0.00
5.20	1.77	29.96	1.90	88.23	1.73	27.22	0.00	0.00
5.22	1.79	30.12	1.86	84.68	1.64	27.39	0.00	0.00
5.24	1.78	29.91	1.86	85.60	1.66	27.16	0.00	0.00
5.26	1.75	29.48	1.90	90.40	1.78	26.68	0.00	0.00
5.28	1.71	28.77	1.98	100.71	2.00	25.88	0.00	0.00
5.30	1.66	28.05	2.12	117.96	2.00	25.04	0.00	0.00
5.32	1.60	27.14	2.31	142.51	2.00	23.96	0.00	0.00
5.34	1.54	26.21	2.51	172.41	2.00	22.80	0.00	0.00
5.36	1.55	26.26	2.50	170.83	2.00	22.86	0.00	0.00
5.38	1.54	26.15	2.49	170.62	2.00	22.73	0.00	0.00
5.40	1.53	25.78	2.45	169.56	2.00	22.25	0.00	0.00
5.42	1.44	24.32	2.57	198.18	2.00	20.33	0.00	0.00
5.44	1.37	23.15	2.64	220.36	2.00	18.71	0.00	0.00
5.46	1.31	22.19	2.68	106.34	2.00	17.31	0.05	0.00
5.48	1.27	21.44	2.67	105.46	2.00	16.17	0.06	0.00
5.50	1.24	20.80	2.63	103.96	2.00	15.18	0.06	0.00
5.52	1.21	20.32	2.59	102.43	2.00	14.40	0.06	0.00
5.54	1.18	19.74	2.60	102.24	2.00	13.45	0.06	0.00
5.56	1.14	19.00	2.67	102.97	2.00	12.18	0.06	0.00
5.58	1.09	18.19	2.77	104.29	2.00	10.75	0.06	0.00
5.60	1.02	17.09	2.87	105.02	2.00	8.69	0.07	0.00
5.62	0.95	15.88	2.97	105.36	2.00	6.26	0.07	0.00
5.64	0.83	13.89	3.30	108.03	2.00	1.85	0.08	0.00
5.66	0.72	11.68	3.83	111.44	2.00	0.00	0.08	0.00
5.68	0.61	9.59	4.53	114.24	2.00	0.00	0.09	0.00
5.70	0.61	9.61	4.34	111.97	2.00	0.00	0.09	0.00
5.72	0.70	11.19	3.51	105.32	2.00	0.00	0.09	0.00
5.74	0.81	13.19	2.73	96.59	2.00	0.14	0.08	0.00
5.76	0.88	14.22	2.41	91.84	2.00	2.62	0.08	0.00
5.78	0.90	14.38	2.35	90.96	2.00	3.00	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
5.80	0.92	14.69	2.29	90.10	2.00	3.68	0.07	0.00
5.82	0.95	15.21	2.15	87.55	2.00	4.84	0.07	0.00
5.84	1.00	15.87	1.99	84.75	2.00	6.25	0.07	0.00
5.86	1.02	16.22	2.06	86.52	2.00	6.97	0.07	0.00
5.88	1.02	16.27	2.31	92.15	2.00	7.06	0.07	0.00
5.90	1.01	16.11	2.64	99.10	2.00	6.73	0.07	0.00
5.92	1.01	16.10	2.75	101.27	2.00	6.71	0.07	0.00
5.94	1.01	16.15	2.70	100.30	2.00	6.83	0.07	0.00
5.96	1.03	16.31	2.56	97.58	2.00	7.15	0.07	0.00
5.98	1.04	16.41	2.48	96.15	2.00	7.35	0.07	0.00
6.00	1.07	16.74	2.38	94.36	2.00	8.01	0.07	0.00
6.02	1.11	17.32	2.21	91.11	2.00	9.13	0.07	0.00
6.04	1.18	18.30	2.07	88.65	2.00	10.95	0.06	0.00
6.06	1.23	19.11	1.99	178.90	2.00	12.37	0.00	0.00
6.08	1.26	19.55	2.10	188.38	2.00	13.13	0.00	0.00
6.10	1.25	19.39	2.38	96.91	2.00	12.85	0.06	0.00
6.12	1.22	19.11	2.68	103.56	2.00	12.37	0.06	0.00
6.14	1.21	18.92	2.93	108.81	2.00	12.05	0.06	0.00
6.16	1.20	18.76	3.15	113.15	2.00	11.77	0.06	0.00
6.18	1.19	18.63	3.48	119.76	2.00	11.54	0.06	0.00
6.20	1.18	18.58	3.79	125.56	2.00	11.45	0.06	0.00
6.22	1.20	18.85	4.00	130.03	2.00	11.93	0.06	0.00
6.24	1.23	19.33	3.95	130.05	2.00	12.75	0.06	0.00
6.26	1.26	19.78	3.89	129.61	2.00	13.52	0.06	0.00
6.28	1.26	19.69	3.95	130.71	2.00	13.36	0.06	0.00
6.30	1.25	19.47	4.14	133.87	2.00	12.99	0.06	0.00
6.32	1.23	19.22	4.21	134.77	2.00	12.56	0.06	0.00
6.34	1.24	19.29	4.04	131.71	2.00	12.68	0.06	0.00
6.36	1.25	19.27	3.95	130.03	2.00	12.65	0.06	0.00
6.38	1.30	20.01	3.82	128.63	2.00	13.89	0.06	0.00
6.40	1.38	21.19	3.58	125.63	2.00	15.78	0.06	0.00
6.42	1.39	21.18	3.40	121.74	2.00	15.77	0.06	0.00
6.44	1.29	19.54	3.44	120.38	2.00	13.11	0.06	0.00
6.46	1.12	16.89	3.43	115.97	2.00	8.30	0.07	0.00
6.48	1.01	15.11	3.38	111.85	2.00	4.63	0.07	0.00
6.50	0.94	13.99	3.40	110.21	2.00	2.09	0.08	0.00
6.52	0.90	13.25	3.79	114.92	2.00	0.30	0.08	0.00
6.54	0.88	12.87	4.15	119.55	2.00	0.00	0.08	0.00
6.56	0.88	12.89	4.47	124.38	2.00	0.00	0.08	0.00
6.58	0.89	12.97	4.56	125.88	2.00	0.00	0.08	0.00
6.60	0.94	13.75	4.37	125.22	2.00	1.52	0.08	0.00
6.62	0.98	14.41	3.97	120.51	2.00	3.06	0.07	0.00
6.64	0.99	14.54	3.89	119.52	2.00	3.36	0.07	0.00
6.66	0.96	13.99	4.08	121.36	2.00	2.09	0.08	0.00
6.68	0.91	13.15	4.46	124.96	2.00	0.05	0.08	0.00
6.70	0.88	12.63	4.69	126.71	2.00	0.00	0.08	0.00
6.72	0.84	11.88	4.91	127.27	2.00	0.00	0.08	0.00
6.74	0.80	11.15	4.86	124.16	2.00	0.00	0.09	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.76	0.75	10.42	4.84	121.44	2.00	0.00	0.09	0.00
6.78	0.71	9.78	4.86	119.27	2.00	0.00	0.09	0.00
6.80	0.68	9.22	5.10	119.90	2.00	0.00	0.09	0.00
6.82	0.67	8.93	5.21	119.98	2.00	0.00	0.10	0.00
6.84	0.66	8.78	5.04	117.50	2.00	0.00	0.10	0.00
6.86	0.63	8.33	4.95	114.54	2.00	0.00	0.10	0.00
6.88	0.58	7.53	5.11	112.76	2.00	0.00	0.10	0.00
6.90	0.53	6.63	5.40	111.18	2.00	0.00	0.11	0.00
6.92	0.50	6.19	5.36	108.46	2.00	0.00	0.11	0.00
6.94	0.50	6.09	4.88	103.52	2.00	0.00	0.11	0.00
6.96	0.50	6.14	4.47	99.77	2.00	0.00	0.11	0.00
6.98	0.52	6.35	4.02	96.09	2.00	0.00	0.11	0.00
7.00	0.53	6.56	3.77	94.31	2.00	0.00	0.11	0.00
7.02	0.55	6.77	3.43	91.27	2.00	0.00	0.11	0.00
7.04	0.56	6.92	3.26	89.73	2.00	0.00	0.11	0.00
7.06	0.58	7.19	3.00	87.37	2.00	0.00	0.11	0.00
7.08	0.60	7.62	2.81	86.13	2.00	0.00	0.10	0.00
7.10	0.63	8.09	2.65	85.18	2.00	0.00	0.10	0.00
7.12	0.66	8.41	2.60	85.22	2.00	0.00	0.10	0.00
7.14	0.66	8.41	2.65	85.98	2.00	0.00	0.10	0.00
7.16	0.64	8.15	2.70	86.01	2.00	0.00	0.10	0.00
7.18	0.63	7.89	2.70	85.27	2.00	0.00	0.10	0.00
7.20	0.62	7.80	2.58	83.40	2.00	0.00	0.10	0.00
7.22	0.63	7.90	2.46	81.80	2.00	0.00	0.10	0.00
7.24	0.64	7.96	2.41	81.25	2.00	0.00	0.10	0.00
7.26	0.64	8.01	2.41	81.36	2.00	0.00	0.10	0.00
7.28	0.64	8.02	2.41	81.51	2.00	0.00	0.10	0.00
7.30	0.65	8.20	2.36	81.05	2.00	0.00	0.10	0.00
7.32	0.68	8.61	2.25	80.27	2.00	0.00	0.10	0.00
7.34	0.72	9.23	2.16	80.04	2.00	0.00	0.09	0.00
7.36	0.75	9.55	2.18	80.90	2.00	0.00	0.09	0.00
7.38	0.75	9.56	2.33	83.40	2.00	0.00	0.09	0.00
7.40	0.74	9.41	2.31	82.79	2.00	0.00	0.09	0.00
7.42	0.76	9.75	2.18	81.23	2.00	0.00	0.09	0.00
7.44	0.82	10.58	1.97	78.84	2.00	0.00	0.09	0.00
7.46	0.89	11.58	1.95	79.60	2.00	0.00	0.08	0.00
7.48	0.95	12.35	1.97	81.06	2.00	0.00	0.08	0.00
7.50	0.99	12.87	2.00	82.16	2.00	0.00	0.08	0.00
7.52	1.01	13.14	2.03	83.14	2.00	0.01	0.08	0.00
7.54	1.02	13.22	2.10	84.80	2.00	0.22	0.08	0.00
7.56	1.00	12.96	2.17	85.87	2.00	0.00	0.08	0.00
7.58	0.96	12.47	2.24	86.54	2.00	0.00	0.08	0.00
7.60	0.93	11.95	2.29	86.93	2.00	0.00	0.08	0.00
7.62	0.90	11.62	2.42	88.69	2.00	0.00	0.08	0.00
7.64	0.90	11.46	2.53	90.48	2.00	0.00	0.08	0.00
7.66	0.90	11.57	2.53	90.68	2.00	0.00	0.08	0.00
7.68	0.93	11.88	2.44	89.62	2.00	0.00	0.08	0.00
7.70	0.97	12.41	2.32	88.15	2.00	0.00	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
7.72	1.00	12.76	2.28	87.82	2.00	0.00	0.08	0.00
7.74	1.02	12.99	2.27	87.96	2.00	0.00	0.08	0.00
7.76	1.00	12.79	2.38	89.86	2.00	0.00	0.08	0.00
7.78	1.00	12.73	2.28	87.82	2.00	0.00	0.08	0.00
7.80	1.12	14.30	1.94	82.41	2.00	2.79	0.07	0.00
7.82	1.41	17.99	1.55	133.68	2.00	10.39	0.00	0.00
7.84	2.07	26.38	1.21	69.10	2.00	23.02	0.00	0.00
7.86	2.54	32.32	1.15	69.71	2.00	29.72	0.00	0.00
7.88	2.78	35.35	1.16	71.20	2.00	32.68	0.00	0.00
7.90	2.55	32.55	1.31	74.76	2.00	29.96	0.00	0.00
7.92	2.30	29.50	1.60	82.06	2.00	26.71	0.00	0.00
7.94	2.03	26.15	2.07	125.57	2.00	22.73	0.00	0.00
7.96	1.84	23.80	2.59	209.14	2.00	19.62	0.00	0.00
7.98	1.76	22.84	2.86	111.82	2.00	18.25	0.05	0.00
8.00	1.88	24.38	2.87	241.49	2.00	20.41	0.00	0.00
8.02	2.08	26.82	2.79	204.08	2.00	23.57	0.00	0.00
8.04	2.21	28.47	2.76	186.33	2.00	25.53	0.00	0.00
8.06	2.07	26.69	2.77	202.86	2.00	23.40	0.00	0.00
8.08	1.84	23.54	2.80	111.03	2.00	19.26	0.05	0.00
8.10	1.63	20.74	2.80	108.40	2.00	15.09	0.06	0.00
8.12	1.60	20.24	2.72	105.86	2.00	14.27	0.06	0.00
8.14	1.66	21.01	2.71	106.50	2.00	15.50	0.06	0.00
8.16	1.83	23.19	2.68	228.46	2.00	18.76	0.00	0.00
8.18	2.04	25.93	2.65	194.83	2.00	22.45	0.00	0.00
8.20	2.10	26.59	2.68	193.32	2.00	23.28	0.00	0.00
8.22	1.93	24.40	2.76	225.46	2.00	20.45	0.00	0.00
8.24	1.61	20.22	2.83	108.35	2.00	14.24	0.06	0.00
8.26	1.36	16.83	2.75	102.70	2.00	8.18	0.07	0.00
8.28	1.22	14.91	2.62	97.47	2.00	4.18	0.07	0.00
8.30	1.20	14.66	2.53	95.30	2.00	3.63	0.07	0.00
8.32	1.28	15.60	2.31	91.97	2.00	5.67	0.07	0.00
8.34	1.48	18.09	1.96	86.23	2.00	10.56	0.06	0.00
8.36	1.85	22.59	1.66	107.47	2.00	17.90	0.00	0.00
8.38	2.27	27.76	1.49	78.18	2.00	24.70	0.00	0.00
8.40	2.61	31.96	1.43	78.02	2.00	29.35	0.00	0.00
8.42	2.67	32.67	1.44	78.75	2.00	30.07	0.00	0.00
8.44	2.51	30.63	1.52	80.35	2.00	27.94	0.00	0.00
8.46	2.18	26.60	1.81	97.42	2.00	23.30	0.00	0.00
8.48	1.83	22.31	1.99	147.11	2.00	17.49	0.00	0.00
8.50	1.70	20.52	1.97	161.75	2.00	14.72	0.00	0.00
8.52	2.06	24.79	1.43	73.52	2.00	20.97	0.00	0.00
8.54	2.63	31.67	1.18	70.32	2.00	29.04	0.00	0.00
8.56	2.99	35.85	1.12	70.26	2.00	33.14	0.00	0.00
8.58	2.83	33.87	1.18	71.28	2.00	31.26	0.00	0.00
8.60	2.47	29.60	1.30	73.10	2.00	26.82	0.00	0.00
8.62	2.20	26.43	1.58	78.62	2.00	23.07	0.00	0.00
8.64	2.02	24.24	2.00	131.55	2.00	20.23	0.00	0.00
8.66	1.81	21.71	2.50	102.20	2.00	16.59	0.06	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.68	1.66	19.94	2.72	105.63	2.00	13.77	0.06	0.00
8.70	1.60	19.15	2.74	105.26	2.00	12.45	0.06	0.00
8.72	1.66	19.80	2.63	103.54	2.00	13.55	0.06	0.00
8.74	1.70	20.27	2.54	102.00	2.00	14.32	0.06	0.00
8.76	1.68	19.96	2.48	100.20	2.00	13.81	0.06	0.00
8.78	1.69	20.00	2.22	202.88	2.00	13.87	0.00	0.00
8.80	1.79	21.09	1.96	154.28	2.00	15.63	0.00	0.00
8.82	1.97	23.23	1.82	119.97	2.00	18.82	0.00	0.00
8.84	2.13	25.09	1.85	110.41	2.00	21.36	0.00	0.00
8.86	2.13	25.11	1.97	122.61	2.00	21.39	0.00	0.00
8.88	2.03	23.86	2.08	144.17	2.00	19.70	0.00	0.00
8.90	1.86	21.73	2.16	174.43	2.00	16.61	0.00	0.00
8.92	1.81	21.13	2.20	185.65	2.00	15.69	0.00	0.00
8.94	1.85	21.62	2.18	177.47	2.00	16.45	0.00	0.00
8.96	1.95	22.73	2.15	163.19	2.00	18.10	0.00	0.00
8.98	2.06	24.01	2.15	151.24	2.00	19.91	0.00	0.00
9.00	2.47	28.89	1.95	98.87	2.00	26.01	0.00	0.00
9.02	3.06	35.61	1.52	82.58	2.00	32.92	0.00	0.00
9.04	3.57	41.37	1.26	77.76	2.00	37.87	0.00	0.00
9.06	3.63	41.91	1.08	72.73	2.00	38.29	0.00	0.00
9.08	3.37	38.93	1.23	75.33	2.00	35.86	0.00	0.00
9.10	3.02	34.94	1.45	80.20	2.00	32.29	0.00	0.00
9.12	2.72	31.56	1.85	90.75	2.00	28.93	0.00	0.00
9.14	2.55	29.61	2.20	118.87	2.00	26.83	0.00	0.00
9.16	2.42	28.02	2.54	164.46	2.00	25.01	0.00	0.00
9.18	2.21	25.61	2.82	221.93	2.00	22.04	0.00	0.00
9.20	2.02	23.31	3.03	116.40	2.00	18.94	0.05	0.00
9.22	1.88	21.56	3.11	116.32	2.00	16.36	0.06	0.00
9.24	1.85	21.07	3.07	114.84	2.00	15.60	0.06	0.00
9.26	1.84	20.92	2.88	110.42	2.00	15.37	0.06	0.00
9.28	1.92	21.80	2.60	104.79	2.00	16.72	0.06	0.00
9.30	2.28	25.89	2.24	146.13	2.00	22.40	0.00	0.00
9.32	2.71	30.86	2.04	98.57	2.00	28.19	0.00	0.00
9.34	2.94	33.47	1.84	91.28	2.00	30.88	0.00	0.00
9.36	2.85	32.37	1.80	89.68	2.00	29.77	0.00	0.00
9.38	2.65	29.92	1.86	86.88	2.00	27.17	0.00	0.00
9.40	2.50	28.34	2.20	126.38	2.00	25.38	0.00	0.00
9.42	2.30	25.99	2.72	204.87	2.00	22.52	0.00	0.00
9.44	2.08	23.47	3.31	123.26	2.00	19.16	0.05	0.00
9.46	1.87	21.03	3.76	129.53	2.00	15.54	0.06	0.00
9.48	1.76	19.68	3.80	128.32	2.00	13.35	0.06	0.00
9.50	1.70	18.91	3.62	123.42	2.00	12.03	0.06	0.00
9.52	1.69	18.70	3.34	117.44	2.00	11.67	0.06	0.00
9.54	1.75	19.32	2.99	110.99	2.00	12.74	0.06	0.00
9.56	2.03	22.50	2.55	218.81	2.00	17.77	0.00	0.00
9.58	2.35	26.08	2.24	145.36	2.00	22.64	0.00	0.00
9.60	2.61	29.02	2.06	108.94	2.00	26.17	0.00	0.00
9.62	2.69	29.89	2.01	99.63	1.96	27.14	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
9.64	2.77	30.71	1.99	94.68	1.82	28.03	0.00	0.00
9.66	2.88	31.94	1.98	94.95	1.82	29.32	0.00	0.00
9.68	2.95	32.61	1.97	94.75	1.82	30.01	0.00	0.00
9.70	2.93	32.39	1.98	94.94	1.82	29.79	0.00	0.00
9.72	2.83	31.18	2.02	95.30	1.84	28.53	0.00	0.00
9.74	2.66	29.28	2.18	119.16	2.00	26.46	0.00	0.00
9.76	2.54	27.89	2.35	144.57	2.00	24.85	0.00	0.00
9.78	2.71	29.71	2.24	122.11	2.00	26.95	0.00	0.00
9.80	2.93	32.10	2.13	100.61	2.00	29.49	0.00	0.00
9.82	3.04	33.30	2.03	96.97	2.00	30.70	0.00	0.00
9.84	2.91	31.81	2.21	109.27	2.00	29.20	0.00	0.00
9.86	2.84	31.07	2.40	130.40	2.00	28.42	0.00	0.00
9.88	2.86	31.21	2.48	137.69	2.00	28.57	0.00	0.00
9.90	2.70	29.41	2.62	164.30	2.00	26.61	0.00	0.00
9.92	2.43	26.29	2.73	202.74	2.00	22.91	0.00	0.00
9.94	2.22	23.90	2.90	114.17	2.00	19.76	0.05	0.00
9.96	2.24	23.98	2.79	235.53	2.00	19.87	0.00	0.00
9.98	2.30	24.61	2.71	217.01	2.00	20.73	0.00	0.00
10.00	2.25	24.02	2.73	227.45	2.00	19.92	0.00	0.00
10.02	2.14	22.73	2.87	112.26	2.00	18.10	0.05	0.00
10.04	2.08	22.01	2.94	113.05	2.00	17.04	0.06	0.00
10.06	2.11	22.41	2.92	113.13	2.00	17.63	0.05	0.00
10.08	2.28	24.19	2.72	223.78	2.00	20.16	0.00	0.00
10.10	2.50	26.64	2.51	171.90	2.00	23.34	0.00	0.00
10.12	2.80	29.88	2.29	126.54	2.00	27.13	0.00	0.00
10.14	3.12	33.29	2.10	93.44	2.00	30.70	0.00	0.00
10.16	3.28	34.98	1.98	96.47	2.00	32.33	0.00	0.00
10.18	3.36	35.80	1.89	94.28	2.00	33.10	0.00	0.00
10.20	3.38	35.92	1.82	92.07	1.76	33.20	0.00	0.00
10.22	3.50	37.08	1.73	89.89	1.70	34.25	0.00	0.00
10.24	3.59	38.01	1.65	87.79	1.65	35.07	0.00	0.00
10.26	3.48	36.79	1.55	84.26	1.56	33.99	0.00	0.00
10.28	3.35	35.19	1.48	81.14	2.00	32.53	0.00	0.00
10.30	2.95	30.96	1.81	89.48	2.00	28.30	0.00	0.00
10.32	2.63	27.48	2.38	151.17	2.00	24.37	0.00	0.00
10.34	2.21	22.91	3.16	119.14	2.00	18.36	0.05	0.00
10.36	2.06	21.20	3.21	118.23	2.00	15.79	0.06	0.00
10.38	2.08	21.39	2.98	113.42	2.00	16.09	0.06	0.00
10.40	2.34	24.08	2.60	208.64	2.00	20.01	0.00	0.00
10.42	2.67	27.69	2.26	136.14	2.00	24.62	0.00	0.00
10.44	2.96	30.64	1.93	90.42	2.00	27.96	0.00	0.00
10.46	2.94	30.44	1.77	87.96	2.00	27.74	0.00	0.00
10.48	2.79	28.67	1.79	86.48	2.00	25.76	0.00	0.00
10.50	2.56	26.28	2.03	121.86	2.00	22.89	0.00	0.00
10.52	2.47	25.28	2.32	161.24	2.00	21.61	0.00	0.00
10.54	2.32	23.65	2.66	222.11	2.00	19.41	0.00	0.00
10.56	2.18	22.05	2.94	113.25	2.00	17.10	0.06	0.00
10.58	2.45	24.95	2.66	207.42	2.00	21.18	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
10.60	2.98	30.51	2.26	119.68	2.00	27.82	0.00	0.00
10.62	3.53	36.40	2.04	98.97	2.00	33.65	0.00	0.00
10.64	3.59	36.88	1.99	97.71	2.00	34.08	0.00	0.00
10.66	3.31	33.87	2.00	96.46	2.00	31.27	0.00	0.00
10.68	2.86	28.98	1.97	100.69	2.00	26.12	0.00	0.00
10.70	2.31	23.16	2.34	182.91	2.00	18.73	0.00	0.00
10.72	2.06	20.40	2.69	105.60	2.00	14.53	0.06	0.00
10.74	2.07	20.48	2.88	110.14	2.00	14.66	0.06	0.00
10.76	2.24	22.32	2.64	106.49	2.00	17.50	0.05	0.00
10.78	2.21	21.96	2.66	106.46	2.00	16.97	0.06	0.00
10.80	2.13	21.07	2.62	104.78	2.00	15.59	0.06	0.00
10.82	2.15	21.16	2.50	101.93	2.00	15.74	0.06	0.00
10.84	2.16	21.24	2.36	208.08	2.00	15.86	0.00	0.00
10.86	2.04	19.96	2.41	98.75	2.00	13.81	0.06	0.00
10.88	1.87	18.13	2.59	101.04	2.00	10.65	0.06	0.00
10.90	1.63	15.51	2.92	104.48	2.00	5.49	0.07	0.00
10.92	1.44	13.50	3.09	104.30	2.00	0.90	0.08	0.00
10.94	1.27	11.58	3.25	103.01	2.00	0.00	0.08	0.00
10.96	1.33	12.31	2.83	97.50	2.00	0.00	0.08	0.00
10.98	1.52	14.26	2.48	94.13	2.00	2.70	0.07	0.00
11.00	1.72	16.29	2.19	90.20	2.00	7.11	0.07	0.00
11.02	1.73	16.44	2.17	90.03	2.00	7.42	0.07	0.00
11.04	1.56	14.58	2.32	91.10	2.00	3.45	0.07	0.00
11.06	1.34	12.28	2.56	92.58	2.00	0.00	0.08	0.00
11.08	1.24	11.14	2.58	91.00	2.00	0.00	0.09	0.00
11.10	1.36	12.37	2.22	86.29	2.00	0.00	0.08	0.00
11.12	1.70	15.97	1.87	82.52	2.00	6.45	0.07	0.00
11.14	2.15	20.58	1.57	113.43	2.00	14.82	0.00	0.00
11.16	2.38	22.96	1.54	93.30	2.00	18.44	0.00	0.00
11.18	2.51	24.25	1.52	84.09	2.00	20.24	0.00	0.00
11.20	2.77	26.91	1.42	75.97	2.00	23.67	0.00	0.00
11.22	3.14	30.67	1.36	75.51	2.00	27.99	0.00	0.00
11.24	3.31	32.35	1.37	76.53	1.43	29.75	0.00	0.00
11.26	3.26	31.80	1.45	78.74	1.47	29.18	0.00	0.00
11.28	3.28	31.95	1.49	80.25	1.50	29.34	0.00	0.00
11.30	3.29	32.03	1.60	83.49	2.00	29.42	0.00	0.00
11.32	3.07	29.77	1.78	87.99	2.00	27.00	0.00	0.00
11.34	2.64	25.31	2.14	140.41	2.00	21.65	0.00	0.00
11.36	2.24	21.14	2.63	105.02	2.00	15.70	0.06	0.00
11.38	1.94	18.05	3.30	115.93	2.00	10.48	0.06	0.00
11.40	1.80	16.58	3.54	117.99	2.00	7.69	0.07	0.00
11.42	1.93	17.95	3.00	109.58	2.00	10.32	0.06	0.00
11.44	2.15	20.15	2.38	98.27	2.00	14.12	0.06	0.00
11.46	2.57	24.35	1.76	106.37	2.00	20.38	0.00	0.00
11.48	2.65	25.13	1.49	77.67	2.00	21.41	0.00	0.00
11.50	2.59	24.43	1.34	72.65	2.00	20.48	0.00	0.00
11.52	2.18	20.23	1.58	117.71	2.00	14.26	0.00	0.00
11.54	1.98	18.20	1.86	175.80	2.00	10.76	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
11.56	1.97	18.03	2.03	88.05	2.00	10.46	0.06	0.00
11.58	2.00	18.35	2.11	90.33	2.00	11.03	0.06	0.00
11.60	1.87	16.96	2.34	94.39	2.00	8.44	0.07	0.00
11.62	1.60	14.25	2.75	99.38	2.00	2.69	0.07	0.00
11.64	1.40	12.23	3.08	101.71	2.00	0.00	0.08	0.00
11.66	1.30	11.14	3.23	101.79	2.00	0.00	0.09	0.00
11.68	1.30	11.15	3.17	100.81	2.00	0.00	0.09	0.00
11.70	1.33	11.37	3.00	98.65	2.00	0.00	0.09	0.00
11.72	1.40	12.06	2.74	95.58	2.00	0.00	0.08	0.00
11.74	1.50	13.13	2.35	89.94	2.00	0.00	0.08	0.00
11.76	1.50	13.06	2.22	87.27	2.00	0.00	0.08	0.00
11.78	1.40	12.02	2.29	87.25	2.00	0.00	0.08	0.00
11.80	1.25	10.49	2.46	87.82	2.00	0.00	0.09	0.00
11.82	1.18	9.78	2.57	88.22	2.00	0.00	0.09	0.00
11.84	1.15	9.50	2.55	87.26	2.00	0.00	0.09	0.00
11.86	1.13	9.29	2.61	87.79	2.00	0.00	0.09	0.00
11.88	1.12	9.15	2.55	86.53	2.00	0.00	0.10	0.00
11.90	1.12	9.12	2.41	84.31	2.00	0.00	0.10	0.00
11.92	1.12	9.10	2.29	82.25	2.00	0.00	0.10	0.00
11.94	1.13	9.15	2.20	80.88	2.00	0.00	0.10	0.00
11.96	1.14	9.24	2.18	80.75	2.00	0.00	0.09	0.00
11.98	1.16	9.49	2.15	80.62	2.00	0.00	0.09	0.00
12.00	1.20	9.81	2.16	81.44	2.00	0.00	0.09	0.00
12.02	1.22	10.03	2.17	81.88	2.00	0.00	0.09	0.00
12.04	1.25	10.24	2.18	82.52	2.00	0.00	0.09	0.00
12.06	1.28	10.57	2.17	82.78	2.00	0.00	0.09	0.00
12.08	1.33	11.02	2.18	83.72	2.00	0.00	0.09	0.00
12.10	1.37	11.39	2.22	84.97	2.00	0.00	0.09	0.00
12.12	1.48	12.45	2.14	84.92	2.00	0.00	0.08	0.00
12.14	1.65	14.09	2.01	84.20	2.00	2.31	0.08	0.00
12.16	1.84	15.95	1.94	84.40	2.00	6.40	0.07	0.00
12.18	1.94	16.97	2.04	87.49	2.00	8.45	0.07	0.00
12.20	1.92	16.73	2.12	89.07	2.00	7.98	0.07	0.00
12.22	1.72	14.68	2.22	89.19	2.00	3.68	0.07	0.00
12.24	1.48	12.32	2.12	84.37	2.00	0.00	0.08	0.00
12.26	1.26	10.16	2.14	81.59	2.00	0.00	0.09	0.00
12.28	1.16	9.24	2.23	81.62	2.00	0.00	0.09	0.00
12.30	1.08	8.42	2.87	89.62	2.00	0.00	0.10	0.00
12.32	1.02	7.79	3.56	97.00	2.00	0.00	0.10	0.00
12.34	0.97	7.31	4.15	102.20	2.00	0.00	0.11	0.00
12.36	0.94	6.96	4.25	101.92	2.00	0.00	0.11	0.00
12.38	0.92	6.81	4.20	100.67	2.00	0.00	0.11	0.00
12.40	0.92	6.83	3.80	96.30	2.00	0.00	0.11	0.00
12.42	0.93	6.86	3.29	90.44	2.00	0.00	0.11	0.00
12.44	0.93	6.84	2.71	83.08	2.00	0.00	0.11	0.00
12.46	0.92	6.79	2.44	79.10	2.00	0.00	0.11	0.00
12.48	0.93	6.82	2.31	77.44	2.00	0.00	0.11	0.00
12.50	0.93	6.84	2.31	77.48	2.00	0.00	0.11	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
12.52	0.93	6.81	2.30	77.21	2.00	0.00	0.11	0.00
12.54	0.92	6.74	2.32	77.35	2.00	0.00	0.11	0.00
12.56	0.91	6.62	2.33	77.18	2.00	0.00	0.11	0.00
12.58	0.92	6.66	2.30	76.83	2.00	0.00	0.11	0.00
12.60	0.94	6.83	2.21	75.93	2.00	0.00	0.11	0.00
12.62	0.96	7.05	2.13	75.27	2.00	0.00	0.11	0.00
12.64	0.97	7.13	2.09	74.87	2.00	0.00	0.11	0.00
12.66	0.95	6.94	2.16	75.47	2.00	0.00	0.11	0.00
12.68	0.94	6.85	2.22	76.26	2.00	0.00	0.11	0.00
12.70	0.94	6.82	2.29	77.18	2.00	0.00	0.11	0.00
12.72	0.96	6.94	2.31	77.76	2.00	0.00	0.11	0.00
12.74	0.97	7.05	2.30	77.95	2.00	0.00	0.11	0.00
12.76	0.97	7.09	2.30	77.96	2.00	0.00	0.11	0.00
12.78	0.99	7.25	2.24	77.54	2.00	0.00	0.11	0.00
12.80	1.01	7.38	2.18	76.84	2.00	0.00	0.10	0.00
12.82	1.02	7.48	2.09	75.70	2.00	0.00	0.10	0.00
12.84	1.02	7.50	1.99	74.22	2.00	0.00	0.10	0.00
12.86	1.04	7.62	1.89	72.80	2.00	0.00	0.10	0.00
12.88	1.07	7.87	1.81	71.84	2.00	0.00	0.10	0.00
12.90	1.08	7.97	1.79	71.72	2.00	0.00	0.10	0.00
12.92	1.07	7.87	1.82	72.04	2.00	0.00	0.10	0.00
12.94	1.05	7.73	1.87	72.67	2.00	0.00	0.10	0.00
12.96	1.06	7.78	1.88	72.83	2.00	0.00	0.10	0.00
12.98	1.07	7.88	1.85	72.66	2.00	0.00	0.10	0.00
13.00	1.08	7.91	1.82	72.15	2.00	0.00	0.10	0.00
13.02	1.08	7.92	1.80	71.78	2.00	0.00	0.10	0.00
13.04	1.10	8.05	1.78	71.62	2.00	0.00	0.10	0.00
13.06	1.12	8.25	1.74	71.37	2.00	0.00	0.10	0.00
13.08	1.14	8.41	1.70	70.89	2.00	0.00	0.10	0.00
13.10	1.15	8.55	1.68	70.60	2.00	0.00	0.10	0.00
13.12	1.18	8.76	1.65	70.48	2.00	0.00	0.10	0.00
13.14	1.23	9.26	1.62	70.57	2.00	0.00	0.09	0.00
13.16	1.29	9.77	1.57	70.12	2.00	0.00	0.09	0.00
13.18	1.34	10.18	1.53	69.83	2.00	0.00	0.09	0.00
13.20	1.34	10.21	1.57	70.79	2.00	0.00	0.09	0.00
13.22	1.32	9.99	1.72	73.46	2.00	0.00	0.09	0.00
13.24	1.28	9.61	1.91	76.66	2.00	0.00	0.09	0.00
13.26	1.22	9.07	2.14	79.72	2.00	0.00	0.10	0.00
13.28	1.18	8.62	2.35	82.33	2.00	0.00	0.10	0.00
13.30	1.16	8.43	2.51	84.45	2.00	0.00	0.10	0.00
13.32	1.19	8.73	2.48	84.67	2.00	0.00	0.10	0.00
13.34	1.30	9.71	2.27	83.18	2.00	0.00	0.09	0.00
13.36	2.35	19.43	1.19	81.59	1.61	12.93	0.00	0.00
13.38	7.63	69.39	0.35	69.39	1.37	54.94	0.55	0.00
13.40	14.13	131.71	0.23	131.71	2.00	76.09	0.00	0.00
13.42	19.99	188.11	0.20	188.11	2.00	87.86	0.00	0.00
13.44	21.46	201.95	0.24	201.95	2.00	90.20	0.00	0.00
13.46	22.52	211.90	0.27	211.90	2.00	91.79	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
13.48	23.03	216.36	0.31	216.36	2.00	92.47	0.00	0.00
13.50	24.20	227.24	0.34	227.24	2.00	94.09	0.00	0.00
13.52	24.57	230.55	0.36	230.55	2.00	94.57	0.00	0.00
13.54	25.04	234.97	0.35	234.97	2.00	95.20	0.00	0.00
13.56	24.41	228.69	0.36	228.69	2.00	94.30	0.00	0.00
13.58	23.39	218.62	0.37	218.62	2.00	92.82	0.00	0.00
13.60	21.92	204.04	0.45	204.04	2.00	90.54	0.00	0.00
13.62	20.63	191.07	0.56	191.07	2.00	88.37	0.00	0.00
13.64	19.93	183.63	0.76	183.63	2.00	87.06	0.00	0.00
13.66	20.16	185.28	0.86	185.28	2.00	87.36	0.00	0.00
13.68	21.35	196.32	0.85	196.32	2.00	89.26	0.00	0.00
13.70	22.40	206.40	0.74	206.40	2.00	90.92	0.00	0.00
13.72	23.27	214.78	0.66	214.78	2.00	92.23	0.00	0.00
13.74	23.65	218.32	0.63	218.32	2.00	92.77	0.00	0.00
13.76	23.73	219.18	0.57	219.18	2.00	92.90	0.00	0.00
13.78	23.82	219.64	0.59	219.64	2.00	92.97	0.00	0.00
13.80	23.94	220.62	0.60	220.62	2.00	93.12	0.00	0.00
13.82	24.34	223.93	0.65	223.93	2.00	93.61	0.00	0.00
13.84	24.59	226.10	0.64	226.10	2.00	93.93	0.00	0.00
13.86	24.12	221.38	0.65	221.38	2.00	93.23	0.00	0.00
13.88	23.37	214.30	0.63	214.30	2.00	92.16	0.00	0.00
13.90	21.83	199.74	0.59	199.74	2.00	89.84	0.00	0.00
13.92	20.91	191.01	0.58	191.01	2.00	88.36	0.00	0.00
13.94	20.17	183.60	0.65	183.60	2.00	87.05	0.00	0.00
13.96	20.46	185.80	0.74	185.80	2.00	87.45	0.00	0.00
13.98	20.50	185.60	0.83	185.60	2.00	87.41	0.00	0.00
14.00	19.87	179.51	0.86	179.51	2.00	86.31	0.00	0.00
14.02	19.03	171.08	0.98	181.20	2.00	84.72	0.00	0.00
14.04	17.66	157.56	1.28	188.36	2.00	82.01	0.00	0.00
14.06	17.23	152.57	1.71	193.33	2.00	80.94	0.00	0.00
14.08	17.40	153.38	2.10	201.98	2.00	81.12	0.00	0.00
14.10	19.78	174.65	2.17	226.53	2.00	85.41	0.00	0.00
14.12	22.16	195.98	2.20	250.31	2.00	89.21	0.00	0.00
14.14	24.17	213.91	2.23	270.61	2.00	92.10	0.00	0.00
14.16	25.39	224.31	2.39	285.57	2.00	93.66	0.00	0.00
14.18	27.27	240.91	2.43	304.91	2.00	96.02	0.00	0.00
14.20	28.51	251.62	2.52	318.77	2.00	97.46	0.00	0.00
14.22	30.77	272.18	2.34	336.69	2.00	100.00	0.00	0.00
14.24	32.47	287.50	2.24	349.68	2.00	100.00	0.00	0.00
14.26	34.57	306.59	2.08	362.40	2.00	100.00	0.00	0.00

Total estimated displacement: 0.06

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
0.90	0.20	3.73	22.06	82.29	3.52	0.83	13.84
0.92	0.25	4.57	20.15	92.03	3.47	0.81	16.58
0.94	0.27	5.00	19.10	95.55	3.43	1.54	17.76
0.96	0.30	5.59	17.61	98.38	3.39	1.07	19.40
0.98	0.29	5.40	17.21	92.99	3.37	1.01	18.37
1.00	0.52	10.04	8.81	88.51	3.00	1.02	33.43
1.02	1.05	20.47	3.92	80.26	2.62	0.79	0.79
1.04	1.69	33.12	2.25	74.64	2.38	0.37	0.69
1.06	2.23	43.77	1.75	76.46	2.25	0.43	0.70
1.08	2.56	50.17	1.57	78.80	2.18	0.53	0.70
1.10	2.75	53.97	1.53	82.54	2.16	0.71	0.71
1.12	2.78	54.56	1.59	87.02	2.19	0.72	0.72
1.14	2.62	51.27	1.85	94.69	2.28	0.74	0.74
1.16	2.42	47.34	2.21	104.73	2.37	0.76	0.76
1.18	2.27	44.41	2.59	114.91	2.44	0.77	0.77
1.20	2.18	42.75	2.86	122.35	2.48	0.79	0.79
1.22	2.10	41.13	3.16	129.91	2.53	0.81	0.81
1.24	1.98	38.75	3.48	134.70	2.57	0.85	0.85
1.26	1.90	37.21	3.63	135.00	2.59	0.87	0.87
1.28	1.88	36.64	3.54	129.76	2.57	0.85	0.85
1.30	1.86	36.33	3.46	125.77	2.57	0.84	0.84
1.32	1.88	36.74	3.31	121.66	2.55	0.81	0.81
1.34	1.94	37.94	3.13	118.86	2.52	0.79	0.79
1.36	2.05	40.12	2.99	119.87	2.50	0.77	0.77
1.38	2.13	41.53	3.01	125.06	2.50	0.78	0.78
1.40	2.15	41.92	3.19	133.52	2.53	0.82	0.82
1.42	2.05	40.01	3.64	145.59	2.59	0.89	0.89
1.44	2.03	39.63	3.89	154.32	2.62	0.92	0.92
1.46	2.02	39.39	4.07	160.46	2.64	0.95	0.95
1.48	2.04	39.86	4.04	160.87	2.63	0.95	0.95
1.50	2.00	39.01	4.15	161.96	2.64	0.96	0.96
1.52	1.97	38.50	4.11	158.21	2.64	0.95	0.95
1.54	1.93	37.64	4.12	154.94	2.64	0.95	0.95
1.56	1.86	36.17	4.16	150.50	2.65	0.95	0.95
1.58	1.77	34.40	4.43	152.48	2.67	0.98	0.98
1.60	1.77	34.44	4.43	152.41	2.67	0.97	0.97
1.62	1.85	35.93	4.25	152.78	2.65	0.96	0.96
1.64	1.99	38.77	3.87	150.10	2.61	0.92	0.92
1.66	2.10	40.98	3.61	147.89	2.58	0.89	0.89
1.68	2.18	42.56	3.43	146.18	2.56	0.86	0.86
1.70	2.23	43.47	3.29	143.21	2.54	0.84	0.84
1.72	2.33	45.42	3.15	143.25	2.52	0.83	0.83
1.74	2.35	45.82	3.14	144.10	2.52	0.83	0.83
1.76	2.29	44.64	3.33	148.61	2.55	0.86	0.86
1.78	2.14	41.57	3.72	154.48	2.60	0.91	0.91
1.80	2.01	39.08	4.11	160.71	2.64	0.96	0.96
1.82	1.90	36.89	4.53	167.21	2.68	1.01	1.01
1.84	1.80	34.97	4.85	169.77	2.71	0.85	0.85

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
1.86	1.70	33.02	5.21	172.15	2.75	0.86	0.86
1.88	1.64	31.67	5.49	173.99	2.77	0.86	0.86
1.90	1.57	30.42	5.78	175.74	2.79	0.86	0.86
1.92	1.50	29.04	6.09	176.97	2.82	0.86	0.86
1.94	1.40	27.04	6.55	177.11	2.85	0.86	0.86
1.96	1.31	25.30	7.05	178.41	2.89	0.86	0.86
1.98	1.24	23.92	7.59	181.49	2.93	0.87	0.87
2.00	1.17	22.46	8.25	185.35	2.97	0.87	0.87
2.02	1.13	21.59	8.68	187.36	2.99	0.87	0.87
2.04	1.12	21.43	8.79	188.42	3.00	3.45	45.66
2.06	1.13	21.59	8.85	191.04	3.00	3.55	45.66
2.08	1.09	20.84	9.19	191.42	3.02	3.68	43.78
2.10	1.03	19.59	9.61	188.22	3.05	3.30	40.88
2.12	0.99	18.85	9.56	180.11	3.04	3.00	39.07
2.14	1.00	18.98	9.07	172.23	3.02	2.78	39.08
2.16	1.03	19.55	8.39	164.00	2.98	0.85	0.85
2.18	1.09	20.89	7.28	152.16	2.91	0.83	0.83
2.20	1.24	23.65	5.83	137.92	2.80	0.81	0.81
2.22	1.47	28.20	4.36	122.89	2.67	0.92	0.92
2.24	1.81	34.96	3.14	109.85	2.52	0.77	0.77
2.26	2.08	40.40	2.60	104.91	2.44	0.76	0.76
2.28	2.25	43.61	2.45	106.65	2.41	0.76	0.76
2.30	2.22	43.12	2.71	116.75	2.46	0.78	0.78
2.32	2.12	41.12	3.14	129.15	2.52	0.80	0.80
2.34	2.04	39.40	3.52	138.54	2.57	0.86	0.86
2.36	1.81	35.03	4.41	154.47	2.67	0.98	0.98
2.38	1.59	30.54	5.60	171.11	2.78	0.85	0.85
2.40	1.34	25.65	7.18	184.23	2.90	0.87	0.87
2.42	1.28	24.54	7.36	180.75	2.91	0.87	0.87
2.44	1.34	25.71	6.65	170.98	2.86	0.85	0.85
2.46	1.35	25.80	6.48	167.23	2.85	0.85	0.85
2.48	1.30	24.82	6.71	166.65	2.87	0.85	0.85
2.50	1.18	22.42	7.33	164.43	2.91	0.85	0.85
2.52	1.11	21.08	7.48	157.65	2.92	0.84	0.84
2.54	1.10	20.83	7.14	148.63	2.90	0.83	0.83
2.56	1.30	24.79	5.41	134.20	2.76	0.80	0.80
2.58	2.64	51.20	1.96	100.16	2.31	0.75	0.75
2.60	4.69	91.71	1.28	117.25	1.96	0.78	0.78
2.62	7.72	145.44	1.00	145.44	1.70	0.82	0.82
2.64	10.30	180.63	1.00	180.63	1.56	0.87	0.87
2.66	12.56	208.69	1.00	208.69	1.45	0.90	0.90
2.68	14.22	226.99	1.00	226.99	1.37	0.91	0.91
2.70	15.52	242.36	1.00	242.36	1.33	0.93	0.93
2.72	16.71	257.41	1.00	257.41	1.31	0.94	0.94
2.74	17.67	269.64	1.00	269.64	1.29	0.95	0.95
2.76	18.65	282.10	1.00	282.10	1.28	0.96	0.96
2.78	19.61	294.71	1.00	294.71	1.27	0.97	0.97
2.80	20.67	309.06	1.00	309.06	1.26	0.98	0.98

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
2.82	21.55	321.53	1.00	321.53	1.26	0.99	0.99
2.84	22.23	331.49	1.00	331.49	1.26	1.00	1.00
2.86	22.45	336.68	1.00	336.68	1.28	1.01	1.01
2.88	22.55	339.20	1.00	339.20	1.29	1.01	1.01
2.90	22.52	340.36	1.00	340.36	1.31	1.01	1.01
2.92	21.28	329.18	1.00	329.18	1.36	1.00	1.00
2.94	21.05	325.67	1.00	325.67	1.37	1.00	1.00
2.96	20.93	322.69	1.00	322.69	1.37	1.00	1.00
2.98	22.09	331.00	1.00	331.00	1.31	1.00	1.00
3.00	22.14	331.75	1.00	331.75	1.31	1.00	1.00
3.02	21.80	327.73	1.00	327.73	1.32	1.00	1.00
3.04	21.20	320.69	1.00	320.69	1.34	0.99	0.99
3.06	20.43	310.94	1.00	310.94	1.36	0.99	0.99
3.08	19.71	301.85	1.00	301.85	1.38	0.98	0.98
3.10	18.90	291.65	1.00	291.65	1.41	0.97	0.97
3.12	17.99	279.75	1.00	279.75	1.43	0.96	0.96
3.14	16.29	257.74	1.00	257.74	1.48	0.94	0.94
3.16	14.18	230.25	1.00	230.25	1.54	0.92	0.92
3.18	11.67	196.83	1.00	196.83	1.64	0.88	0.88
3.20	9.54	167.90	1.09	183.40	1.75	0.87	0.87
3.22	7.59	140.61	1.23	172.45	1.88	0.86	0.86
3.24	6.06	118.21	1.33	157.06	2.02	0.84	0.84
3.26	4.78	93.26	1.60	149.01	2.19	0.83	0.83
3.28	3.95	76.92	2.08	159.79	2.34	0.84	0.84
3.30	3.40	65.97	2.65	175.07	2.45	0.86	0.86
3.32	3.16	61.19	2.99	183.25	2.50	0.86	0.86
3.34	2.90	56.09	3.42	191.60	2.56	0.92	0.92
3.36	2.63	50.74	3.97	201.23	2.62	0.99	0.99
3.38	2.42	46.66	4.47	208.59	2.68	1.05	1.05
3.40	2.29	44.10	4.70	207.31	2.70	1.08	1.08
3.42	2.21	42.47	4.66	197.79	2.70	1.06	1.06
3.44	2.15	41.33	4.26	176.17	2.66	0.99	0.99
3.46	2.10	40.24	3.83	154.16	2.61	0.92	0.92
3.48	2.05	39.22	3.43	134.62	2.56	0.85	0.85
3.50	2.02	38.59	3.24	124.85	2.54	0.81	0.81
3.52	2.00	38.27	3.08	117.80	2.51	0.78	0.78
3.54	1.98	37.92	2.98	113.10	2.50	0.76	0.76
3.56	1.93	36.85	3.05	112.39	2.51	0.77	0.77
3.58	1.84	35.11	3.26	114.37	2.54	0.79	0.79
3.60	1.80	34.36	3.43	117.79	2.56	0.82	0.82
3.62	1.80	34.26	3.53	120.97	2.57	0.84	0.84
3.64	1.79	34.12	3.63	123.98	2.59	0.85	0.85
3.66	1.75	33.29	3.80	126.63	2.61	0.87	0.87
3.68	1.69	32.14	4.03	129.66	2.63	0.90	0.90
3.70	1.68	31.79	4.12	130.95	2.64	0.91	0.91
3.72	1.68	31.94	4.10	130.86	2.64	0.91	0.91
3.74	1.66	31.45	4.17	131.25	2.65	0.92	0.92
3.76	1.56	29.54	4.52	133.38	2.68	0.95	0.95

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
3.78	1.42	26.64	5.12	136.39	2.74	0.81	0.81
3.80	1.31	24.48	5.64	138.02	2.78	0.81	0.81
3.82	1.26	23.56	5.88	138.52	2.80	0.81	0.81
3.84	1.45	27.25	4.82	131.46	2.71	0.80	0.80
3.86	2.05	39.06	2.92	114.06	2.49	0.77	0.77
3.88	2.74	52.78	1.98	104.25	2.31	0.76	0.76
3.90	3.21	60.81	1.70	103.68	2.23	0.75	0.75
3.92	3.19	60.71	1.79	108.51	2.26	0.76	0.76
3.94	2.92	56.35	2.03	114.25	2.33	0.77	0.77
3.96	2.53	48.52	2.54	123.31	2.43	0.79	0.79
3.98	2.10	40.11	3.31	132.72	2.55	0.83	0.83
4.00	1.68	31.76	4.64	147.19	2.69	0.99	0.99
4.02	1.35	25.23	6.45	162.84	2.85	0.84	0.84
4.04	1.10	20.35	8.77	178.48	3.00	0.86	0.86
4.06	0.98	17.96	10.41	186.96	3.09	1.95	22.09
4.08	0.92	16.66	11.39	189.85	3.14	1.89	20.42
4.10	0.88	15.86	11.81	187.37	3.16	1.87	19.36
4.12	0.82	14.73	12.41	182.86	3.19	1.74	17.91
4.14	0.69	12.22	13.66	166.83	3.24	1.56	14.80
4.16	0.67	11.73	12.89	151.18	3.21	0.89	14.15
4.18	0.68	11.91	11.36	135.27	3.14	0.98	14.32
4.20	0.80	14.32	9.09	130.26	3.02	0.89	17.17
4.22	0.89	16.06	7.62	122.38	2.93	0.79	0.79
4.24	1.05	19.30	5.81	112.19	2.80	0.77	0.77
4.26	1.22	22.64	4.66	105.50	2.70	0.91	0.91
4.28	1.35	25.18	4.13	104.09	2.64	0.86	0.86
4.30	1.39	25.92	4.19	108.72	2.65	0.88	0.88
4.32	1.39	25.95	4.37	113.31	2.67	0.90	0.90
4.34	1.38	25.75	4.53	116.59	2.68	0.92	0.92
4.36	1.39	25.98	4.54	118.08	2.68	0.93	0.93
4.38	1.42	26.58	4.44	118.06	2.67	0.92	0.92
4.40	1.47	27.43	4.28	117.28	2.66	0.90	0.90
4.42	1.50	28.06	4.11	115.46	2.64	0.88	0.88
4.44	1.51	28.23	4.00	112.89	2.63	0.87	0.87
4.46	1.50	28.04	3.88	108.82	2.61	0.85	0.85
4.48	1.49	27.88	3.70	103.29	2.59	0.82	0.82
4.50	1.49	27.85	3.54	98.47	2.57	0.79	0.79
4.52	1.49	27.83	3.41	94.90	2.56	0.77	0.77
4.54	1.48	27.52	3.43	94.25	2.56	0.77	0.77
4.56	1.45	27.04	3.49	94.48	2.57	0.78	0.78
4.58	1.42	26.50	3.60	95.47	2.58	0.80	0.80
4.60	1.40	26.05	3.68	95.86	2.59	0.80	0.80
4.62	1.39	25.75	3.73	96.01	2.60	0.81	0.81
4.64	1.38	25.56	3.74	95.58	2.60	0.81	0.81
4.66	1.39	25.64	3.68	94.48	2.59	0.80	0.80
4.68	1.41	25.92	3.58	92.68	2.58	0.79	0.79
4.70	1.44	26.27	3.45	90.69	2.56	0.77	0.77
4.72	1.46	26.39	3.36	88.79	2.55	0.76	0.76

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
4.74	1.46	26.33	3.33	87.64	2.55	0.75	0.75
4.76	1.46	26.22	3.31	86.85	2.55	0.75	0.75
4.78	1.45	26.13	3.35	87.43	2.55	0.75	0.75
4.80	1.44	25.94	3.43	88.94	2.56	0.76	0.76
4.82	1.43	25.72	3.54	91.00	2.57	0.78	0.78
4.84	1.43	25.75	3.61	92.93	2.58	0.79	0.79
4.86	1.46	26.19	3.61	94.60	2.58	0.79	0.79
4.88	1.50	26.85	3.57	95.94	2.58	0.79	0.79
4.90	1.53	27.33	3.54	96.71	2.57	0.79	0.79
4.92	1.55	27.49	3.51	96.51	2.57	0.79	0.79
4.94	1.54	27.44	3.57	97.99	2.58	0.80	0.80
4.96	1.54	27.36	3.65	99.75	2.59	0.81	0.81
4.98	1.54	27.40	3.70	101.41	2.59	0.82	0.82
5.00	1.54	27.33	3.71	101.54	2.60	0.82	0.82
5.02	1.54	27.13	3.76	101.95	2.60	0.82	0.82
5.04	1.52	26.78	3.82	102.32	2.61	0.83	0.83
5.06	1.51	26.63	3.82	101.69	2.61	0.83	0.83
5.08	1.52	26.67	3.75	99.90	2.60	0.82	0.82
5.10	1.55	26.97	3.63	97.78	2.59	0.80	0.80
5.12	1.60	27.62	3.45	95.37	2.56	0.78	0.78
5.14	1.66	28.43	3.28	93.30	2.54	0.76	0.76
5.16	1.71	29.20	3.15	92.11	2.52	0.74	0.74
5.18	1.75	29.66	3.08	91.39	2.51	0.73	0.73
5.20	1.77	29.96	3.03	90.77	2.51	0.72	0.72
5.22	1.79	30.12	2.98	89.80	2.50	0.72	0.72
5.24	1.78	29.91	3.00	89.74	2.50	0.72	0.72
5.26	1.75	29.48	3.07	90.57	2.51	0.73	0.73
5.28	1.71	28.77	3.22	92.57	2.53	0.75	0.75
5.30	1.66	28.05	3.43	96.25	2.56	0.78	0.78
5.32	1.60	27.14	3.71	100.78	2.60	0.82	0.82
5.34	1.54	26.21	4.02	105.47	2.63	0.86	0.86
5.36	1.55	26.26	4.01	105.25	2.63	0.85	0.85
5.38	1.54	26.15	4.01	104.92	2.63	0.85	0.85
5.40	1.53	25.78	4.02	103.73	2.63	0.85	0.85
5.42	1.44	24.32	4.35	105.67	2.66	0.88	0.88
5.44	1.37	23.15	4.59	106.36	2.69	0.91	0.91
5.46	1.31	22.19	4.79	106.34	2.71	0.76	0.76
5.48	1.27	21.44	4.92	105.46	2.72	0.76	0.76
5.50	1.24	20.80	5.00	103.96	2.73	0.76	0.76
5.52	1.21	20.32	5.04	102.43	2.73	0.75	0.75
5.54	1.18	19.74	5.18	102.24	2.74	0.75	0.75
5.56	1.14	19.00	5.42	102.97	2.76	0.75	0.75
5.58	1.09	18.19	5.73	104.29	2.79	0.76	0.76
5.60	1.02	17.09	6.14	105.02	2.82	0.76	0.76
5.62	0.95	15.88	6.64	105.36	2.86	0.76	0.76
5.64	0.83	13.89	7.78	108.03	2.94	0.76	0.76
5.66	0.72	11.68	9.54	111.44	3.04	0.51	11.68
5.68	0.61	9.59	11.91	114.24	3.16	0.53	9.59

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
5.70	0.61	9.61	11.65	111.97	3.15	0.51	9.61
5.72	0.70	11.19	9.41	105.32	3.04	0.45	11.19
5.74	0.81	13.19	7.32	96.59	2.91	0.74	0.74
5.76	0.88	14.22	6.46	91.84	2.85	0.73	0.73
5.78	0.90	14.38	6.32	90.96	2.84	0.73	0.73
5.80	0.92	14.69	6.14	90.10	2.82	0.73	0.73
5.82	0.95	15.21	5.76	87.55	2.79	0.72	0.72
5.84	1.00	15.87	5.34	84.75	2.76	0.72	0.72
5.86	1.02	16.22	5.33	86.52	2.76	0.72	0.72
5.88	1.02	16.27	5.66	92.15	2.78	0.73	0.73
5.90	1.01	16.11	6.15	99.10	2.82	0.75	0.75
5.92	1.01	16.10	6.29	101.27	2.83	0.75	0.75
5.94	1.01	16.15	6.21	100.30	2.83	0.75	0.75
5.96	1.03	16.31	5.98	97.58	2.81	0.74	0.74
5.98	1.04	16.41	5.86	96.15	2.80	0.74	0.74
6.00	1.07	16.74	5.64	94.36	2.78	0.74	0.74
6.02	1.11	17.32	5.26	91.11	2.75	0.73	0.73
6.04	1.18	18.30	4.84	88.65	2.71	0.73	0.73
6.06	1.23	19.11	4.57	87.26	2.69	0.86	0.86
6.08	1.26	19.55	4.61	90.22	2.69	0.87	0.87
6.10	1.25	19.39	5.00	96.91	2.73	0.74	0.74
6.12	1.22	19.11	5.42	103.56	2.76	0.75	0.75
6.14	1.21	18.92	5.75	108.81	2.79	0.76	0.76
6.16	1.20	18.76	6.03	113.15	2.81	0.77	0.77
6.18	1.19	18.63	6.43	119.76	2.84	0.78	0.78
6.20	1.18	18.58	6.76	125.56	2.87	0.79	0.79
6.22	1.20	18.85	6.90	130.03	2.88	0.80	0.80
6.24	1.23	19.33	6.73	130.05	2.87	0.80	0.80
6.26	1.26	19.78	6.55	129.61	2.85	0.80	0.80
6.28	1.26	19.69	6.64	130.71	2.86	0.80	0.80
6.30	1.25	19.47	6.88	133.87	2.88	0.80	0.80
6.32	1.23	19.22	7.01	134.77	2.89	0.81	0.81
6.34	1.24	19.29	6.83	131.71	2.87	0.80	0.80
6.36	1.25	19.27	6.75	130.03	2.87	0.80	0.80
6.38	1.30	20.01	6.43	128.63	2.84	0.80	0.80
6.40	1.38	21.19	5.93	125.63	2.81	0.79	0.79
6.42	1.39	21.18	5.75	121.74	2.79	0.79	0.79
6.44	1.29	19.54	6.16	120.38	2.82	0.78	0.78
6.46	1.12	16.89	6.87	115.97	2.88	0.78	0.78
6.48	1.01	15.11	7.40	111.85	2.91	0.77	0.77
6.50	0.94	13.99	7.88	110.21	2.94	0.77	0.77
6.52	0.90	13.25	8.67	114.92	2.99	0.77	0.77
6.54	0.88	12.87	9.29	119.55	3.03	0.61	12.87
6.56	0.88	12.89	9.65	124.38	3.05	0.64	12.89
6.58	0.89	12.97	9.70	125.88	3.05	0.74	12.97
6.60	0.94	13.75	9.11	125.22	3.02	0.66	13.75
6.62	0.98	14.41	8.36	120.51	2.97	0.78	0.78
6.64	0.99	14.54	8.22	119.52	2.97	0.78	0.78

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
6.66	0.96	13.99	8.67	121.36	2.99	0.78	0.78
6.68	0.91	13.15	9.50	124.96	3.04	0.68	13.15
6.70	0.88	12.63	10.03	126.71	3.07	0.70	12.63
6.72	0.84	11.88	10.72	127.27	3.11	0.66	11.88
6.74	0.80	11.15	11.13	124.16	3.13	0.67	11.15
6.76	0.75	10.42	11.66	121.44	3.15	0.57	10.42
6.78	0.71	9.78	12.20	119.27	3.18	0.55	9.78
6.80	0.68	9.22	13.00	119.90	3.21	0.58	9.22
6.82	0.67	8.93	13.43	119.98	3.23	0.57	8.93
6.84	0.66	8.78	13.38	117.50	3.23	0.55	8.78
6.86	0.63	8.33	13.74	114.54	3.24	0.50	8.33
6.88	0.58	7.53	14.97	112.76	3.29	0.48	7.53
6.90	0.53	6.63	16.78	111.18	3.36	0.47	6.63
6.92	0.50	6.19	17.53	108.46	3.38	0.44	6.19
6.94	0.50	6.09	16.99	103.52	3.37	0.39	6.09
6.96	0.50	6.14	16.26	99.77	3.34	0.35	6.14
6.98	0.52	6.35	15.12	96.09	3.30	0.34	6.35
7.00	0.53	6.56	14.37	94.31	3.27	0.31	6.56
7.02	0.55	6.77	13.48	91.27	3.23	0.31	6.77
7.04	0.56	6.92	12.96	89.73	3.21	0.28	6.92
7.06	0.58	7.19	12.15	87.37	3.17	0.28	7.19
7.08	0.60	7.62	11.30	86.13	3.13	0.26	7.62
7.10	0.63	8.09	10.52	85.18	3.10	0.26	8.09
7.12	0.66	8.41	10.13	85.22	3.08	0.27	8.41
7.14	0.66	8.41	10.23	85.98	3.08	0.27	8.41
7.16	0.64	8.15	10.56	86.01	3.10	0.28	8.15
7.18	0.63	7.89	10.81	85.27	3.11	0.27	7.89
7.20	0.62	7.80	10.70	83.40	3.10	0.25	7.80
7.22	0.63	7.90	10.36	81.80	3.09	0.24	7.90
7.24	0.64	7.96	10.21	81.25	3.08	0.24	7.96
7.26	0.64	8.01	10.15	81.36	3.08	0.24	8.01
7.28	0.64	8.02	10.16	81.51	3.08	0.24	8.02
7.30	0.65	8.20	9.89	81.05	3.06	0.24	8.20
7.32	0.68	8.61	9.32	80.27	3.03	0.24	8.61
7.34	0.72	9.23	8.68	80.04	2.99	0.59	0.71
7.36	0.75	9.55	8.47	80.90	2.98	0.63	0.71
7.38	0.75	9.56	8.73	83.40	3.00	0.71	0.71
7.40	0.74	9.41	8.80	82.79	3.00	0.29	9.41
7.42	0.76	9.75	8.33	81.23	2.97	0.65	0.71
7.44	0.82	10.58	7.45	78.84	2.92	0.53	0.70
7.46	0.89	11.58	6.87	79.60	2.88	0.56	0.71
7.48	0.95	12.35	6.56	81.06	2.85	0.64	0.71
7.50	0.99	12.87	6.38	82.16	2.84	0.70	0.71
7.52	1.01	13.14	6.33	83.14	2.84	0.71	0.71
7.54	1.02	13.22	6.41	84.80	2.84	0.72	0.72
7.56	1.00	12.96	6.63	85.87	2.86	0.72	0.72
7.58	0.96	12.47	6.94	86.54	2.88	0.72	0.72
7.60	0.93	11.95	7.27	86.93	2.90	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.62	0.90	11.62	7.63	88.69	2.93	0.73	0.73
7.64	0.90	11.46	7.89	90.48	2.95	0.73	0.73
7.66	0.90	11.57	7.84	90.68	2.94	0.73	0.73
7.68	0.93	11.88	7.54	89.62	2.92	0.73	0.73
7.70	0.97	12.41	7.11	88.15	2.89	0.72	0.72
7.72	1.00	12.76	6.88	87.82	2.88	0.72	0.72
7.74	1.02	12.99	6.77	87.96	2.87	0.72	0.72
7.76	1.00	12.79	7.02	89.86	2.89	0.73	0.73
7.78	1.00	12.73	6.90	87.82	2.88	0.72	0.72
7.80	1.12	14.30	5.76	82.41	2.79	0.71	0.71
7.82	1.41	17.99	4.20	75.64	2.65	0.80	0.80
7.84	2.07	26.38	2.62	69.10	2.44	0.24	0.68
7.86	2.54	32.32	2.16	69.71	2.36	0.25	0.68
7.88	2.78	35.35	2.01	71.20	2.32	0.28	0.69
7.90	2.55	32.55	2.30	74.76	2.38	0.38	0.69
7.92	2.30	29.50	2.78	82.06	2.47	0.69	0.71
7.94	2.03	26.15	3.60	94.06	2.58	0.79	0.79
7.96	1.84	23.80	4.46	106.25	2.68	0.90	0.90
7.98	1.76	22.84	4.90	111.82	2.72	0.77	0.77
8.00	1.88	24.38	4.66	113.61	2.70	0.93	0.93
8.02	2.08	26.82	4.24	113.72	2.65	0.89	0.89
8.04	2.21	28.47	4.02	114.36	2.63	0.87	0.87
8.06	2.07	26.69	4.24	113.11	2.65	0.89	0.89
8.08	1.84	23.54	4.72	111.03	2.70	0.77	0.77
8.10	1.63	20.74	5.23	108.40	2.75	0.76	0.76
8.12	1.60	20.24	5.23	105.86	2.75	0.76	0.76
8.14	1.66	21.01	5.07	106.50	2.73	0.76	0.76
8.16	1.83	23.19	4.65	107.86	2.69	0.92	0.92
8.18	2.04	25.93	4.22	109.43	2.65	0.88	0.88
8.20	2.10	26.59	4.17	110.91	2.65	0.88	0.88
8.22	1.93	24.40	4.55	110.92	2.68	0.91	0.91
8.24	1.61	20.22	5.36	108.35	2.76	0.76	0.76
8.26	1.36	16.83	6.10	102.70	2.82	0.75	0.75
8.28	1.22	14.91	6.54	97.47	2.85	0.74	0.74
8.30	1.20	14.66	6.50	95.30	2.85	0.74	0.74
8.32	1.28	15.60	5.90	91.97	2.80	0.73	0.73
8.34	1.48	18.09	4.77	86.23	2.71	0.72	0.72
8.36	1.85	22.59	3.59	80.98	2.58	0.76	0.76
8.38	2.27	27.76	2.82	78.18	2.48	0.50	0.70
8.40	2.61	31.96	2.44	78.02	2.41	0.50	0.70
8.42	2.67	32.67	2.41	78.75	2.41	0.53	0.70
8.44	2.51	30.63	2.62	80.35	2.44	0.60	0.71
8.46	2.18	26.60	3.27	86.96	2.54	0.74	0.74
8.48	1.83	22.31	4.03	89.87	2.63	0.82	0.82
8.50	1.70	20.52	4.29	88.10	2.66	0.84	0.84
8.52	2.06	24.79	3.04	75.30	2.51	0.34	0.69
8.54	2.63	31.67	2.22	70.32	2.37	0.26	0.68
8.56	2.99	35.85	1.96	70.26	2.31	0.26	0.68

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.58	2.83	33.87	2.10	71.28	2.34	0.28	0.69
8.60	2.47	29.60	2.47	73.10	2.42	0.33	0.69
8.62	2.20	26.43	3.04	80.35	2.51	0.52	0.70
8.64	2.02	24.24	3.76	91.08	2.60	0.80	0.80
8.66	1.81	21.71	4.71	102.20	2.70	0.75	0.75
8.68	1.66	19.94	5.30	105.63	2.75	0.76	0.76
8.70	1.60	19.15	5.50	105.26	2.77	0.76	0.76
8.72	1.66	19.80	5.23	103.54	2.75	0.75	0.75
8.74	1.70	20.27	5.03	102.00	2.73	0.75	0.75
8.76	1.68	19.96	5.02	100.20	2.73	0.75	0.75
8.78	1.69	20.00	4.70	94.00	2.70	0.89	0.89
8.80	1.79	21.09	4.18	88.16	2.65	0.83	0.83
8.82	1.97	23.23	3.69	85.75	2.59	0.78	0.78
8.84	2.13	25.09	3.49	87.48	2.57	0.77	0.77
8.86	2.13	25.11	3.62	90.85	2.58	0.79	0.79
8.88	2.03	23.86	3.90	93.13	2.62	0.82	0.82
8.90	1.86	21.73	4.32	93.91	2.66	0.86	0.86
8.92	1.81	21.13	4.46	94.32	2.68	0.87	0.87
8.94	1.85	21.62	4.36	94.18	2.67	0.86	0.86
8.96	1.95	22.73	4.15	94.38	2.64	0.84	0.84
8.98	2.06	24.01	3.96	95.13	2.62	0.83	0.83
9.00	2.47	28.89	3.19	92.22	2.53	0.75	0.75
9.02	3.06	35.61	2.32	82.58	2.39	0.71	0.71
9.04	3.57	41.37	1.88	77.76	2.29	0.48	0.70
9.06	3.63	41.91	1.74	72.73	2.24	0.32	0.69
9.08	3.37	38.93	1.94	75.33	2.30	0.40	0.70
9.10	3.02	34.94	2.30	80.20	2.38	0.59	0.71
9.12	2.72	31.56	2.88	90.75	2.48	0.73	0.73
9.14	2.55	29.61	3.38	99.97	2.55	0.78	0.78
9.16	2.42	28.02	3.86	108.25	2.61	0.85	0.85
9.18	2.21	25.61	4.44	113.76	2.67	0.91	0.91
9.20	2.02	23.31	4.99	116.40	2.73	0.78	0.78
9.22	1.88	21.56	5.39	116.32	2.76	0.78	0.78
9.24	1.85	21.07	5.45	114.84	2.77	0.77	0.77
9.26	1.84	20.92	5.28	110.42	2.75	0.77	0.77
9.28	1.92	21.80	4.81	104.79	2.71	0.76	0.76
9.30	2.28	25.89	3.81	98.65	2.61	0.82	0.82
9.32	2.71	30.86	3.12	96.17	2.52	0.75	0.75
9.34	2.94	33.47	2.73	91.28	2.46	0.73	0.73
9.36	2.85	32.37	2.77	89.68	2.47	0.73	0.73
9.38	2.65	29.92	3.01	90.21	2.51	0.72	0.72
9.40	2.50	28.34	3.50	99.29	2.57	0.79	0.79
9.42	2.30	25.99	4.29	111.58	2.66	0.89	0.89
9.44	2.08	23.47	5.25	123.26	2.75	0.79	0.79
9.46	1.87	21.03	6.16	129.53	2.82	0.80	0.80
9.48	1.76	19.68	6.52	128.32	2.85	0.80	0.80
9.50	1.70	18.91	6.53	123.42	2.85	0.79	0.79
9.52	1.69	18.70	6.28	117.44	2.83	0.78	0.78

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
9.54	1.75	19.32	5.74	110.99	2.79	0.77	0.77
9.56	2.03	22.50	4.63	104.18	2.69	0.91	0.91
9.58	2.35	26.08	3.79	98.92	2.60	0.82	0.82
9.60	2.61	29.02	3.30	95.69	2.54	0.76	0.76
9.62	2.69	29.89	3.16	94.54	2.53	0.75	0.75
9.64	2.77	30.71	3.08	94.52	2.51	0.74	0.74
9.66	2.88	31.94	2.97	94.95	2.50	0.74	0.74
9.68	2.95	32.61	2.91	94.75	2.49	0.74	0.74
9.70	2.93	32.39	2.93	94.94	2.49	0.74	0.74
9.72	2.83	31.18	3.07	95.69	2.51	0.74	0.74
9.74	2.66	29.28	3.39	99.32	2.56	0.78	0.78
9.76	2.54	27.89	3.70	103.08	2.59	0.82	0.82
9.78	2.71	29.71	3.40	101.15	2.56	0.79	0.79
9.80	2.93	32.10	3.10	99.37	2.52	0.75	0.75
9.82	3.04	33.30	2.91	96.97	2.49	0.74	0.74
9.84	2.91	31.81	3.20	101.68	2.53	0.76	0.76
9.86	2.84	31.07	3.43	106.55	2.56	0.80	0.80
9.88	2.86	31.21	3.49	108.94	2.57	0.81	0.81
9.90	2.70	29.41	3.80	111.64	2.61	0.85	0.85
9.92	2.43	26.29	4.26	112.01	2.66	0.89	0.89
9.94	2.22	23.90	4.78	114.17	2.71	0.77	0.77
9.96	2.24	23.98	4.65	111.42	2.69	0.92	0.92
9.98	2.30	24.61	4.47	110.02	2.68	0.90	0.90
10.00	2.25	24.02	4.59	110.14	2.69	0.91	0.91
10.02	2.14	22.73	4.94	112.26	2.72	0.77	0.77
10.04	2.08	22.01	5.14	113.05	2.74	0.77	0.77
10.06	2.11	22.41	5.05	113.13	2.73	0.77	0.77
10.08	2.28	24.19	4.55	110.02	2.68	0.91	0.91
10.10	2.50	26.64	4.00	106.47	2.63	0.85	0.85
10.12	2.80	29.88	3.44	102.79	2.56	0.79	0.79
10.14	3.12	33.29	2.98	99.21	2.50	0.74	0.74
10.16	3.28	34.98	2.76	96.47	2.47	0.74	0.74
10.18	3.36	35.80	2.63	94.28	2.45	0.74	0.74
10.20	3.38	35.92	2.56	92.07	2.43	0.73	0.73
10.22	3.50	37.08	2.42	89.89	2.41	0.73	0.73
10.24	3.59	38.01	2.31	87.79	2.39	0.72	0.72
10.26	3.48	36.79	2.29	84.26	2.38	0.72	0.72
10.28	3.35	35.19	2.31	81.14	2.39	0.64	0.71
10.30	2.95	30.96	2.89	89.48	2.49	0.73	0.73
10.32	2.63	27.48	3.78	103.75	2.60	0.83	0.83
10.34	2.21	22.91	5.20	119.14	2.75	0.78	0.78
10.36	2.06	21.20	5.58	118.23	2.78	0.78	0.78
10.38	2.08	21.39	5.30	113.42	2.75	0.77	0.77
10.40	2.34	24.08	4.44	106.96	2.67	0.90	0.90
10.42	2.67	27.69	3.63	100.44	2.59	0.81	0.81
10.44	2.96	30.64	3.03	92.90	2.51	0.73	0.73
10.46	2.94	30.44	2.89	87.96	2.49	0.72	0.72
10.48	2.79	28.67	3.06	87.58	2.51	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
10.50	2.56	26.28	3.55	93.36	2.58	0.79	0.79
10.52	2.47	25.28	3.98	100.60	2.63	0.84	0.84
10.54	2.32	23.65	4.57	108.13	2.69	0.91	0.91
10.56	2.18	22.05	5.14	113.25	2.74	0.77	0.77
10.58	2.45	24.95	4.38	109.20	2.67	0.89	0.89
10.60	2.98	30.51	3.35	102.17	2.55	0.78	0.78
10.62	3.53	36.40	2.72	98.97	2.46	0.75	0.75
10.64	3.59	36.88	2.65	97.71	2.45	0.74	0.74
10.66	3.31	33.87	2.85	96.46	2.48	0.74	0.74
10.68	2.86	28.98	3.21	93.00	2.53	0.75	0.75
10.70	2.31	23.16	4.30	99.52	2.66	0.87	0.87
10.72	2.06	20.40	5.18	105.60	2.74	0.76	0.76
10.74	2.07	20.48	5.38	110.14	2.76	0.77	0.77
10.76	2.24	22.32	4.77	106.49	2.71	0.76	0.76
10.78	2.21	21.96	4.85	106.46	2.71	0.76	0.76
10.80	2.13	21.07	4.97	104.78	2.72	0.76	0.76
10.82	2.15	21.16	4.82	101.93	2.71	0.75	0.75
10.84	2.16	21.24	4.64	98.59	2.69	0.90	0.90
10.86	2.04	19.96	4.95	98.75	2.72	0.75	0.75
10.88	1.87	18.13	5.57	101.04	2.78	0.75	0.75
10.90	1.63	15.51	6.74	104.48	2.87	0.76	0.76
10.92	1.44	13.50	7.73	104.30	2.93	0.76	0.76
10.94	1.27	11.58	8.89	103.01	3.01	0.42	11.58
10.96	1.33	12.31	7.92	97.50	2.95	0.74	0.74
10.98	1.52	14.26	6.60	94.13	2.86	0.74	0.74
11.00	1.72	16.29	5.54	90.20	2.77	0.73	0.73
11.02	1.73	16.44	5.47	90.03	2.77	0.73	0.73
11.04	1.56	14.58	6.25	91.10	2.83	0.73	0.73
11.06	1.34	12.28	7.54	92.58	2.92	0.73	0.73
11.08	1.24	11.14	8.17	91.00	2.96	0.73	0.73
11.10	1.36	12.37	6.98	86.29	2.88	0.72	0.72
11.12	1.70	15.97	5.17	82.52	2.74	0.71	0.71
11.14	2.15	20.58	3.78	77.74	2.60	0.77	0.77
11.16	2.38	22.96	3.39	77.85	2.56	0.74	0.74
11.18	2.51	24.25	3.21	77.77	2.53	0.72	0.72
11.20	2.77	26.91	2.82	75.97	2.48	0.42	0.70
11.22	3.14	30.67	2.46	75.51	2.42	0.40	0.70
11.24	3.31	32.35	2.37	76.53	2.40	0.44	0.70
11.26	3.26	31.80	2.48	78.74	2.42	0.53	0.70
11.28	3.28	31.95	2.51	80.25	2.43	0.60	0.71
11.30	3.29	32.03	2.61	83.49	2.44	0.71	0.71
11.32	3.07	29.77	2.96	87.99	2.50	0.72	0.72
11.34	2.64	25.31	3.79	95.84	2.60	0.81	0.81
11.36	2.24	21.14	4.97	105.02	2.72	0.76	0.76
11.38	1.94	18.05	6.42	115.93	2.84	0.78	0.78
11.40	1.80	16.58	7.11	117.99	2.89	0.78	0.78
11.42	1.93	17.95	6.10	109.58	2.82	0.77	0.77
11.44	2.15	20.15	4.88	98.27	2.72	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
11.46	2.57	24.35	3.48	84.70	2.57	0.76	0.76
11.48	2.65	25.13	3.08	77.42	2.51	0.48	0.70
11.50	2.59	24.43	2.97	72.65	2.50	0.32	0.69
11.52	2.18	20.23	3.85	77.92	2.61	0.78	0.78
11.54	1.98	18.20	4.62	84.05	2.69	0.86	0.86
11.56	1.97	18.03	4.88	88.05	2.72	0.72	0.72
11.58	2.00	18.35	4.92	90.33	2.72	0.73	0.73
11.60	1.87	16.96	5.56	94.39	2.78	0.74	0.74
11.62	1.60	14.25	6.97	99.38	2.88	0.75	0.75
11.64	1.40	12.23	8.32	101.71	2.97	0.75	0.75
11.66	1.30	11.14	9.13	101.79	3.02	0.43	11.14
11.68	1.30	11.15	9.04	100.81	3.01	0.41	11.15
11.70	1.33	11.37	8.67	98.65	2.99	0.75	0.75
11.72	1.40	12.06	7.92	95.58	2.95	0.74	0.74
11.74	1.50	13.13	6.85	89.94	2.88	0.73	0.73
11.76	1.50	13.06	6.68	87.27	2.86	0.72	0.72
11.78	1.40	12.02	7.26	87.25	2.90	0.72	0.72
11.80	1.25	10.49	8.37	87.82	2.98	0.72	0.72
11.82	1.18	9.78	9.02	88.22	3.01	0.28	9.78
11.84	1.15	9.50	9.18	87.26	3.02	0.30	9.50
11.86	1.13	9.29	9.45	87.79	3.04	0.30	9.29
11.88	1.12	9.15	9.46	86.53	3.04	0.29	9.15
11.90	1.12	9.12	9.24	84.31	3.03	0.27	9.12
11.92	1.12	9.10	9.04	82.25	3.01	0.25	9.10
11.94	1.13	9.15	8.84	80.88	3.00	0.25	9.15
11.96	1.14	9.24	8.74	80.75	3.00	0.62	0.71
11.98	1.16	9.49	8.49	80.62	2.98	0.62	0.71
12.00	1.20	9.81	8.30	81.44	2.97	0.66	0.71
12.02	1.22	10.03	8.16	81.88	2.96	0.68	0.71
12.04	1.25	10.24	8.06	82.52	2.96	0.71	0.71
12.06	1.28	10.57	7.83	82.78	2.94	0.71	0.71
12.08	1.33	11.02	7.60	83.72	2.93	0.72	0.72
12.10	1.37	11.39	7.46	84.97	2.92	0.72	0.72
12.12	1.48	12.45	6.82	84.92	2.87	0.72	0.72
12.14	1.65	14.09	5.98	84.20	2.81	0.72	0.72
12.16	1.84	15.95	5.29	84.40	2.75	0.72	0.72
12.18	1.94	16.97	5.16	87.49	2.74	0.72	0.72
12.20	1.92	16.73	5.33	89.07	2.76	0.73	0.73
12.22	1.72	14.68	6.07	89.19	2.82	0.73	0.73
12.24	1.48	12.32	6.85	84.37	2.88	0.72	0.72
12.26	1.26	10.16	8.03	81.59	2.95	0.67	0.71
12.28	1.16	9.24	8.84	81.62	3.00	0.24	9.24
12.30	1.08	8.42	10.65	89.62	3.10	0.28	8.42
12.32	1.02	7.79	12.45	97.00	3.19	0.38	7.79
12.34	0.97	7.31	13.97	102.20	3.25	0.39	7.31
12.36	0.94	6.96	14.64	101.92	3.28	0.39	6.96
12.38	0.92	6.81	14.79	100.67	3.28	0.37	6.81
12.40	0.92	6.83	14.11	96.30	3.26	0.36	6.83

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
12.42	0.93	6.86	13.19	90.44	3.22	0.29	6.86
12.44	0.93	6.84	12.14	83.08	3.17	0.23	6.84
12.46	0.92	6.79	11.65	79.10	3.15	0.20	6.79
12.48	0.93	6.82	11.36	77.44	3.14	0.21	6.82
12.50	0.93	6.84	11.33	77.48	3.14	0.20	6.84
12.52	0.93	6.81	11.34	77.21	3.14	0.21	6.81
12.54	0.92	6.74	11.47	77.35	3.14	0.20	6.74
12.56	0.91	6.62	11.67	77.18	3.15	0.21	6.62
12.58	0.92	6.66	11.53	76.83	3.15	0.20	6.66
12.60	0.94	6.83	11.12	75.93	3.13	0.20	6.83
12.62	0.96	7.05	10.68	75.27	3.10	0.19	7.05
12.64	0.97	7.13	10.51	74.87	3.09	0.19	7.13
12.66	0.95	6.94	10.88	75.47	3.11	0.19	6.94
12.68	0.94	6.85	11.13	76.26	3.13	0.20	6.85
12.70	0.94	6.82	11.32	77.18	3.13	0.21	6.82
12.72	0.96	6.94	11.20	77.76	3.13	0.21	6.94
12.74	0.97	7.05	11.05	77.95	3.12	0.21	7.05
12.76	0.97	7.09	10.99	77.96	3.12	0.21	7.09
12.78	0.99	7.25	10.70	77.54	3.10	0.21	7.25
12.80	1.01	7.38	10.42	76.84	3.09	0.21	7.38
12.82	1.02	7.48	10.12	75.70	3.07	0.20	7.48
12.84	1.02	7.50	9.90	74.22	3.06	0.19	7.50
12.86	1.04	7.62	9.55	72.80	3.04	0.18	7.62
12.88	1.07	7.87	9.13	71.84	3.02	0.18	7.87
12.90	1.08	7.97	9.00	71.72	3.01	0.18	7.97
12.92	1.07	7.87	9.16	72.04	3.02	0.18	7.87
12.94	1.05	7.73	9.41	72.67	3.04	0.18	7.73
12.96	1.06	7.78	9.36	72.83	3.03	0.19	7.78
12.98	1.07	7.88	9.22	72.66	3.03	0.19	7.88
13.00	1.08	7.91	9.12	72.15	3.02	0.18	7.91
13.02	1.08	7.92	9.07	71.78	3.02	0.18	7.92
13.04	1.10	8.05	8.89	71.62	3.01	0.18	8.05
13.06	1.12	8.25	8.65	71.37	2.99	0.29	0.69
13.08	1.14	8.41	8.43	70.89	2.98	0.27	0.69
13.10	1.15	8.55	8.26	70.60	2.97	0.27	0.68
13.12	1.18	8.76	8.05	70.48	2.96	0.27	0.68
13.14	1.23	9.26	7.62	70.57	2.93	0.27	0.68
13.16	1.29	9.77	7.18	70.12	2.90	0.26	0.68
13.18	1.34	10.18	6.86	69.83	2.88	0.25	0.68
13.20	1.34	10.21	6.93	70.79	2.88	0.27	0.69
13.22	1.32	9.99	7.35	73.46	2.91	0.34	0.69
13.24	1.28	9.61	7.98	76.66	2.95	0.44	0.70
13.26	1.22	9.07	8.79	79.72	3.00	0.24	9.07
13.28	1.18	8.62	9.55	82.33	3.04	0.25	8.62
13.30	1.16	8.43	10.01	84.45	3.07	0.27	8.43
13.32	1.19	8.73	9.70	84.67	3.05	0.28	8.73
13.34	1.30	9.71	8.57	83.18	2.99	0.71	0.71
13.36	2.35	19.43	3.43	66.65	2.56	0.67	0.71

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
13.38	7.63	69.39	1.00	69.39	1.81	0.24	0.68
13.40	14.13	131.71	1.00	131.71	1.48	0.80	0.80
13.42	19.99	188.11	1.00	188.11	1.31	0.87	0.87
13.44	21.46	201.95	1.00	201.95	1.32	0.89	0.89
13.46	22.52	211.90	1.00	211.90	1.32	0.90	0.90
13.48	23.03	216.36	1.00	216.36	1.34	0.90	0.90
13.50	24.20	227.24	1.00	227.24	1.35	0.91	0.91
13.52	24.57	230.55	1.00	230.55	1.36	0.92	0.92
13.54	25.04	234.97	1.00	234.97	1.34	0.92	0.92
13.56	24.41	228.69	1.00	228.69	1.35	0.92	0.92
13.58	23.39	218.62	1.00	218.62	1.38	0.91	0.91
13.60	21.92	204.04	1.00	204.04	1.45	0.89	0.89
13.62	20.63	191.07	1.00	191.07	1.53	0.88	0.88
13.64	19.93	183.63	1.00	183.63	1.64	0.87	0.87
13.66	20.16	185.28	1.00	185.28	1.67	0.87	0.87
13.68	21.35	196.32	1.00	196.32	1.65	0.88	0.88
13.70	22.40	206.40	1.00	206.40	1.59	0.89	0.89
13.72	23.27	214.78	1.00	214.78	1.54	0.90	0.90
13.74	23.65	218.32	1.00	218.32	1.52	0.91	0.91
13.76	23.73	219.18	1.00	219.18	1.49	0.91	0.91
13.78	23.82	219.64	1.00	219.64	1.51	0.91	0.91
13.80	23.94	220.62	1.00	220.62	1.51	0.91	0.91
13.82	24.34	223.93	1.00	223.93	1.53	0.91	0.91
13.84	24.59	226.10	1.00	226.10	1.52	0.91	0.91
13.86	24.12	221.38	1.00	221.38	1.53	0.91	0.91
13.88	23.37	214.30	1.00	214.30	1.53	0.90	0.90
13.90	21.83	199.74	1.00	199.74	1.54	0.89	0.89
13.92	20.91	191.01	1.00	191.01	1.55	0.88	0.88
13.94	20.17	183.60	1.00	183.60	1.59	0.87	0.87
13.96	20.46	185.80	1.00	185.80	1.63	0.87	0.87
13.98	20.50	185.60	1.00	185.60	1.66	0.87	0.87
14.00	19.87	179.51	1.00	179.51	1.68	0.86	0.86
14.02	19.03	171.08	1.06	181.20	1.74	0.87	0.87
14.04	17.66	157.56	1.20	188.36	1.84	0.87	0.87
14.06	17.23	152.57	1.27	193.33	1.95	0.88	0.88
14.08	17.40	153.38	1.32	201.98	2.01	0.89	0.89
14.10	19.78	174.65	1.30	226.53	1.99	0.91	0.91
14.12	22.16	195.98	1.28	250.31	1.96	0.94	0.94
14.14	24.17	213.91	1.27	270.61	1.94	0.95	0.95
14.16	25.39	224.31	1.27	285.57	1.95	0.97	0.97
14.18	27.27	240.91	1.27	304.91	1.94	0.98	0.98
14.20	28.51	251.62	1.27	318.77	1.95	0.99	0.99
14.22	30.77	272.18	1.24	336.69	1.90	1.01	1.01
14.24	32.47	287.50	1.22	349.68	1.87	1.01	1.01
14.26	34.57	306.59	1.18	362.40	1.83	1.02	1.02

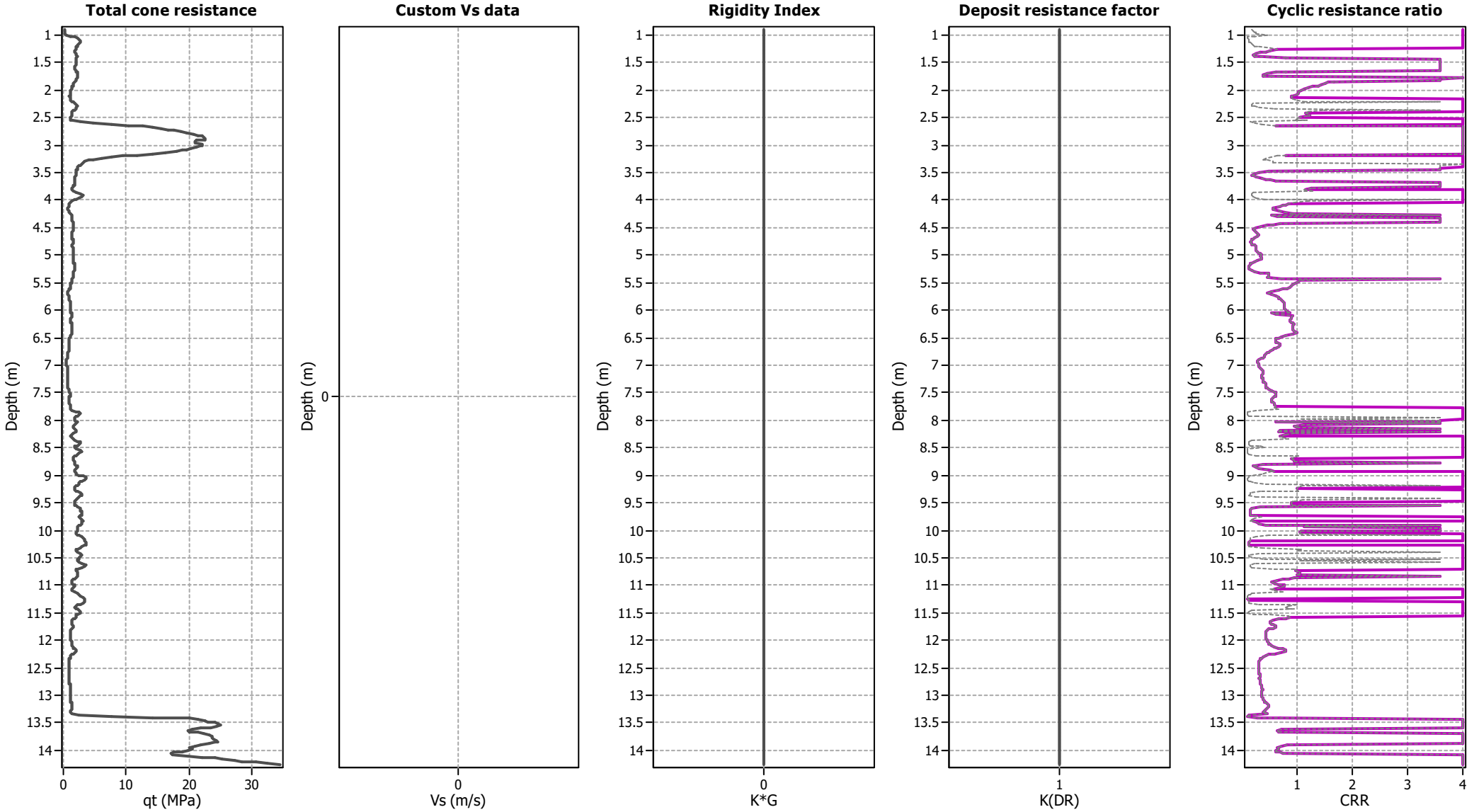
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$

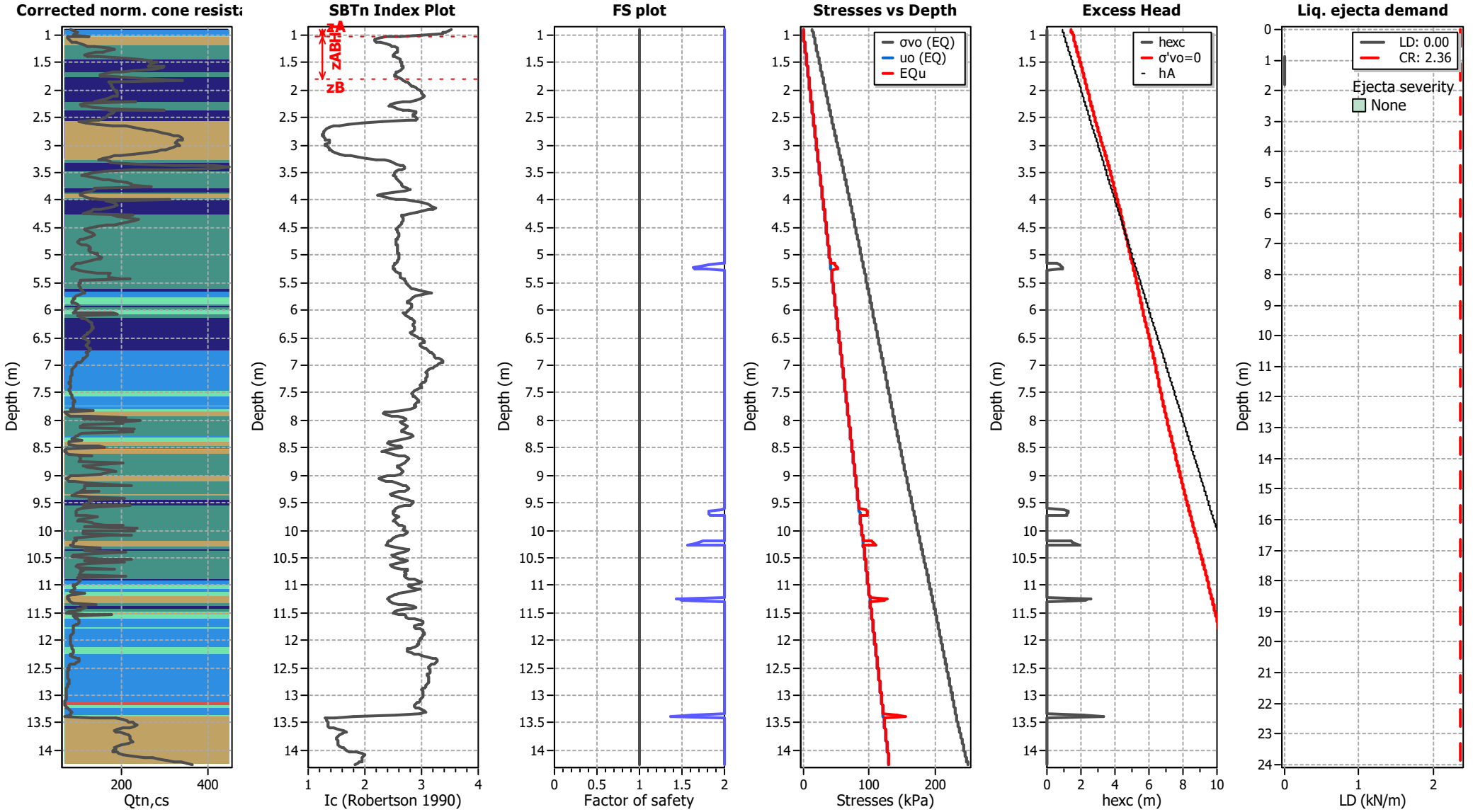
Abbreviations

q_t:	Total cone resistance
K_c:	Cone resistance correction factor due to fines
$Q_{tn,cs}$:	Adjusted and corrected cone resistance due to fines
I_c:	Soil behavior type index
$S_{u(liq)}/\sigma'_v$:	Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$:	Calculated peak undrained strength ratio

Aging Calculation Estimation



Ejecta Severity Estimation



Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

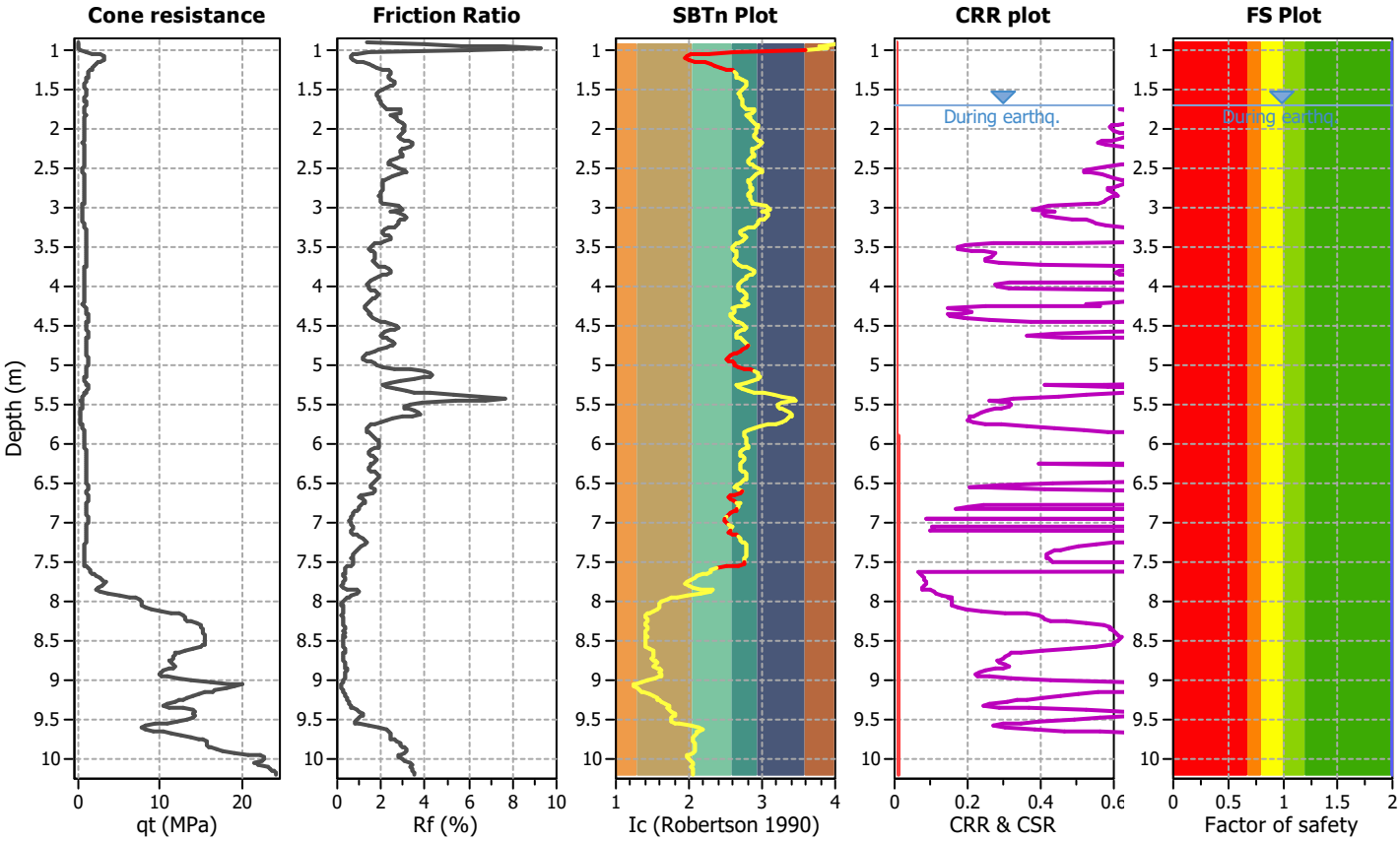
LIQUEFACTION ANALYSIS REPORT

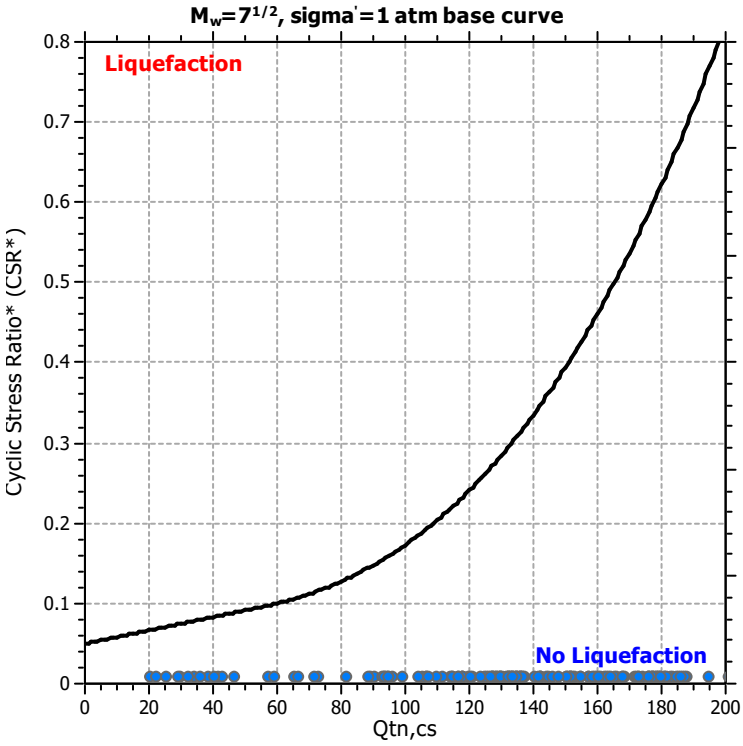
Project title : CWLP Free Face Liquefaction Analysis **Location : East Lake Shore Drive, Springfield, Illinois**

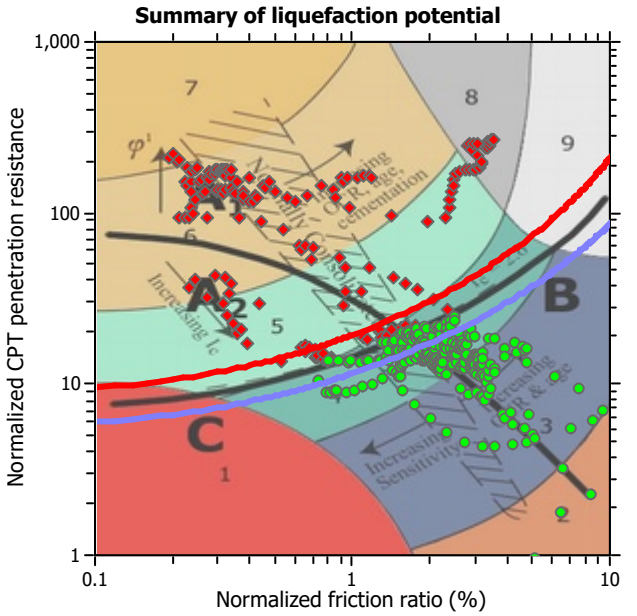
CPT file : CWLP CPT-6L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	1.70 m	Use fill:	No	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	1.70 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.01	Unit weight calculation:	Based on SBT	K_σ applied:	No		

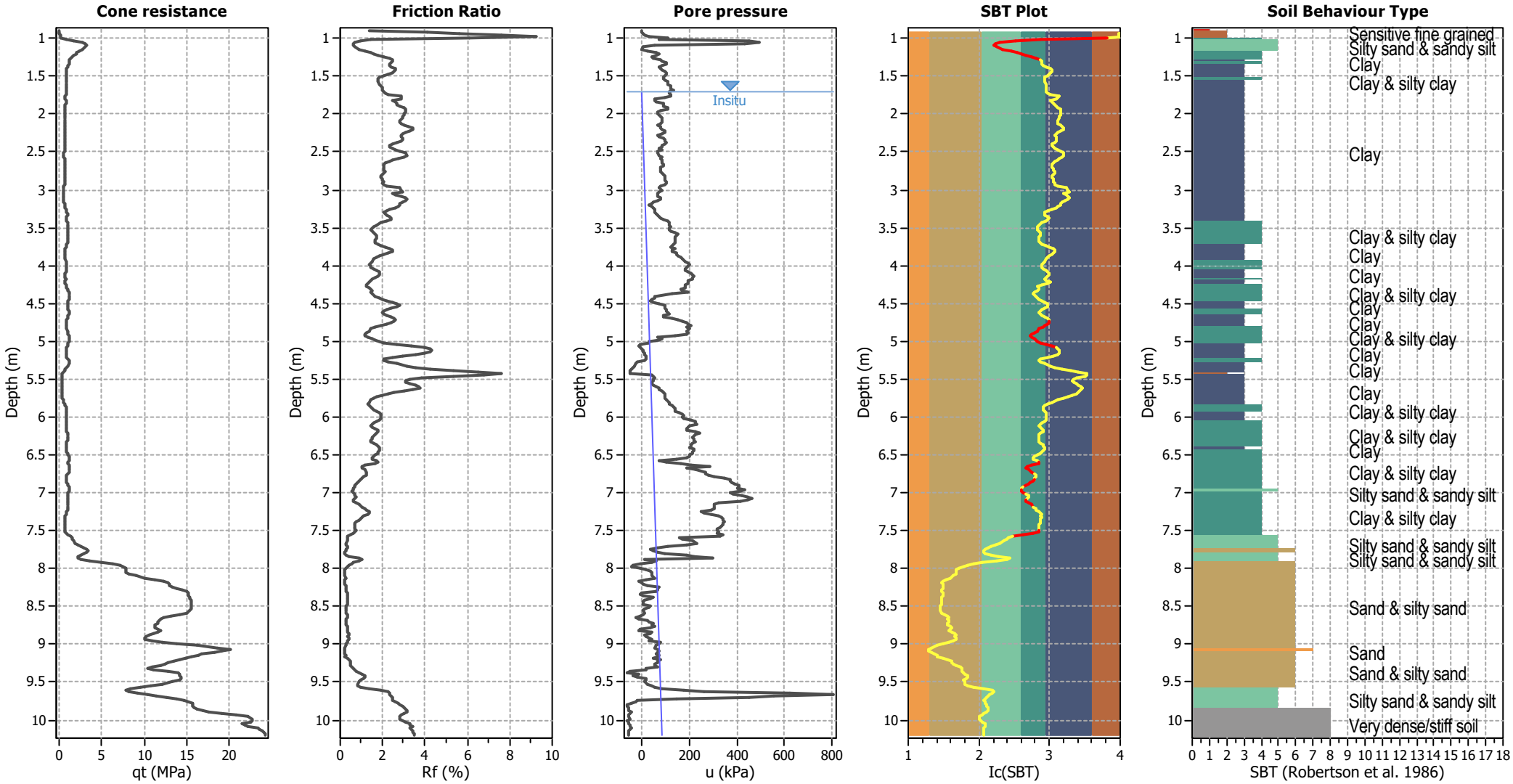






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



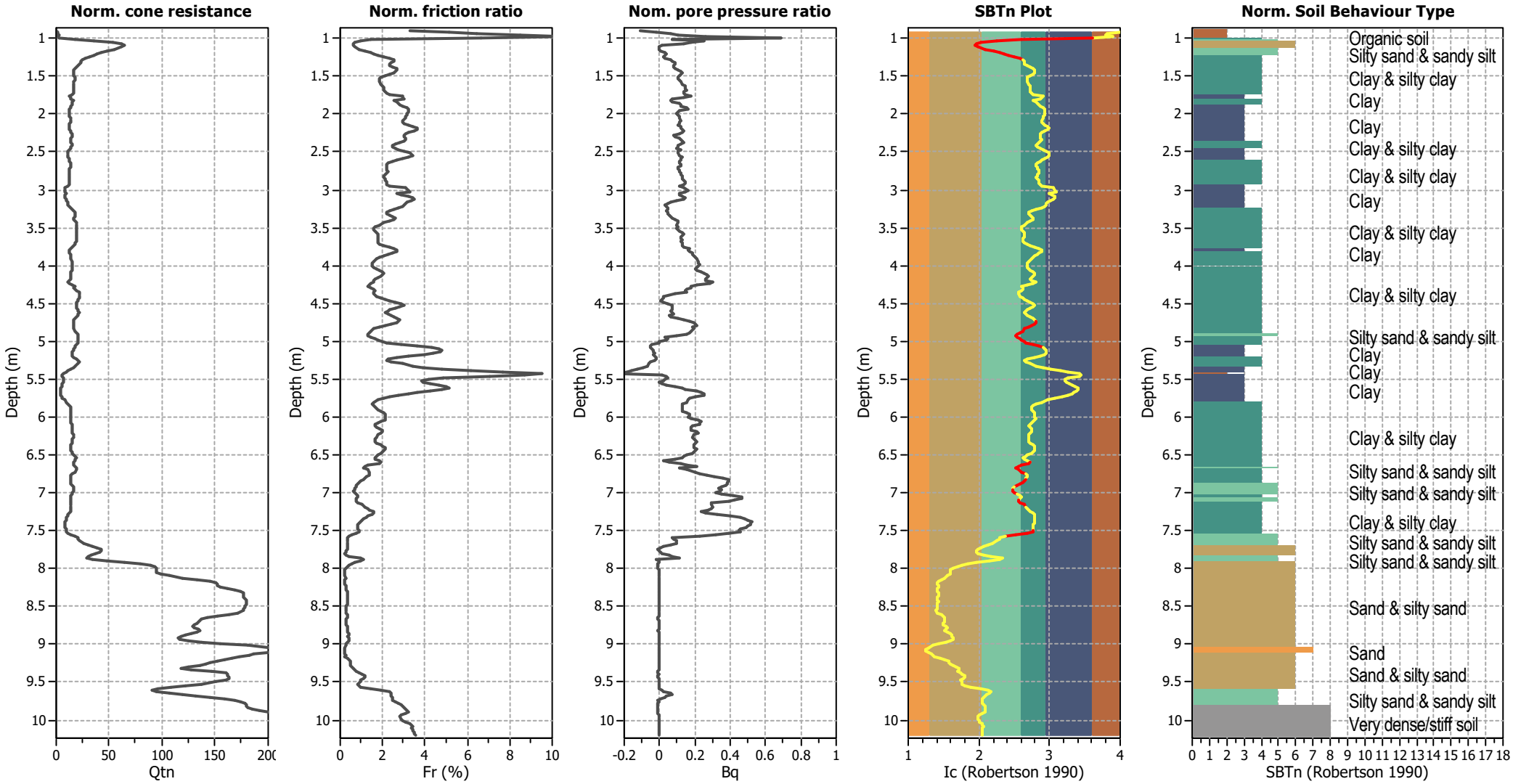
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.70 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.01	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



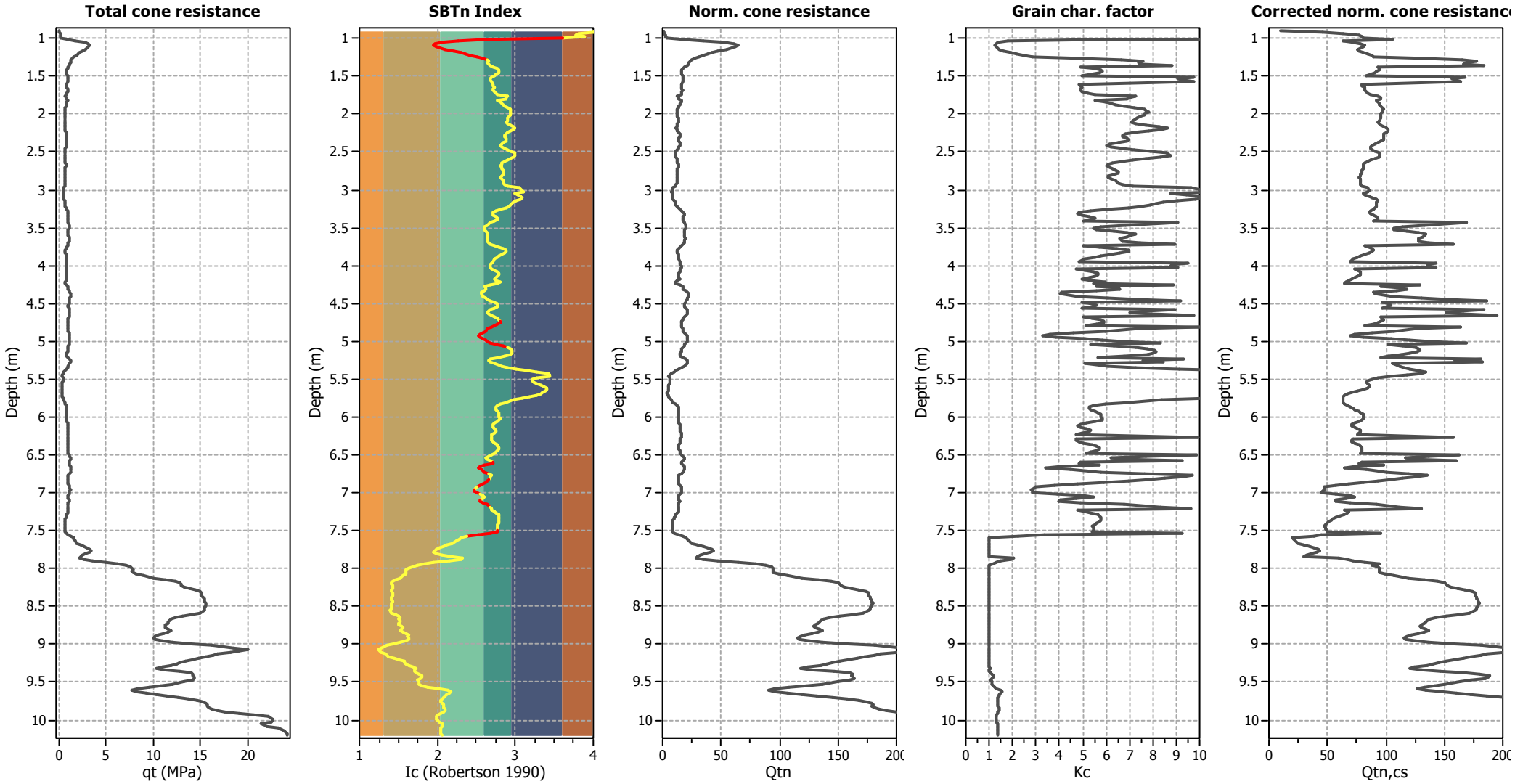
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.70 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.01	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

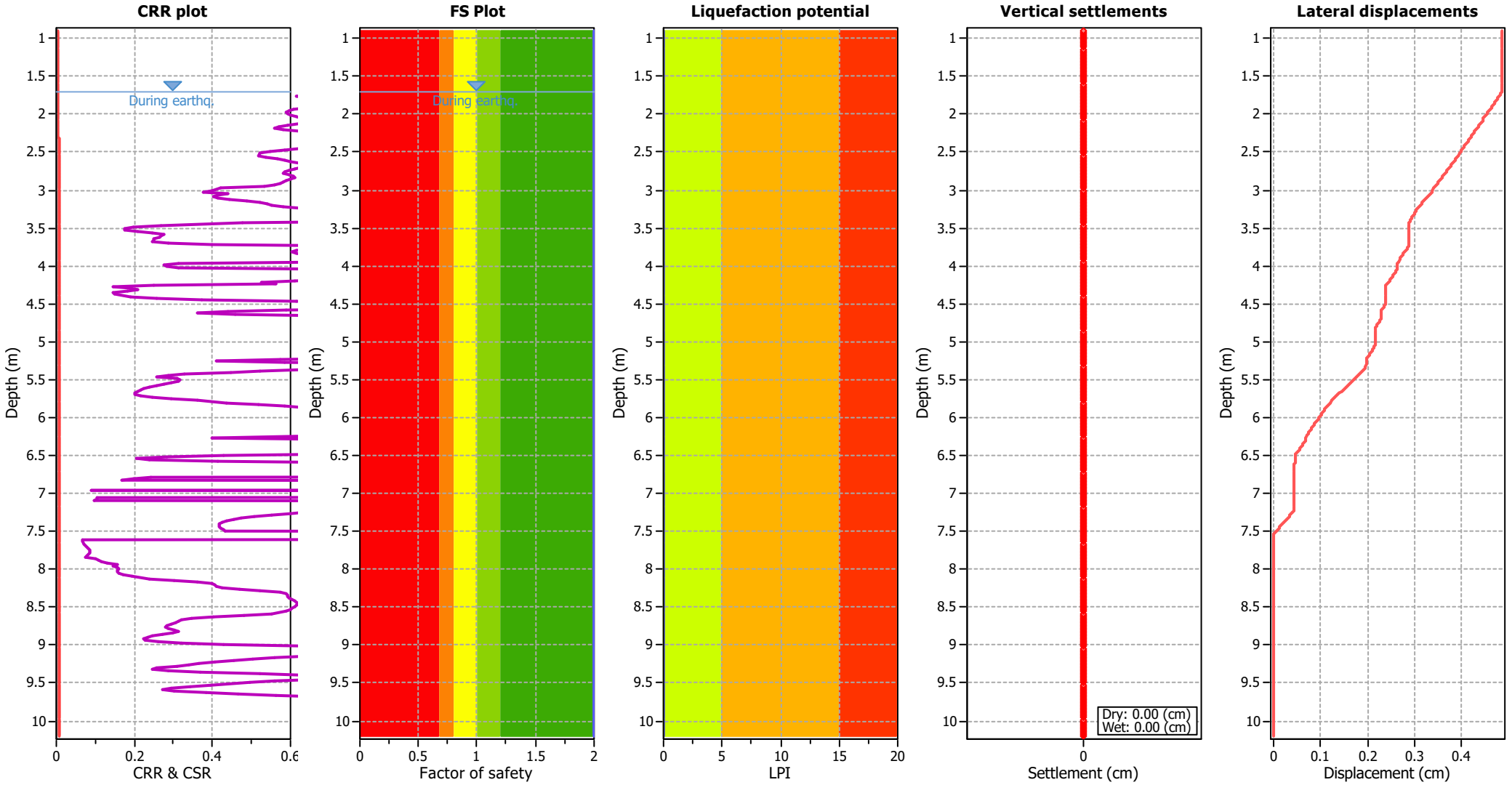
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.70 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.01	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.70 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.01	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	N/A	Limit depth:	N/A

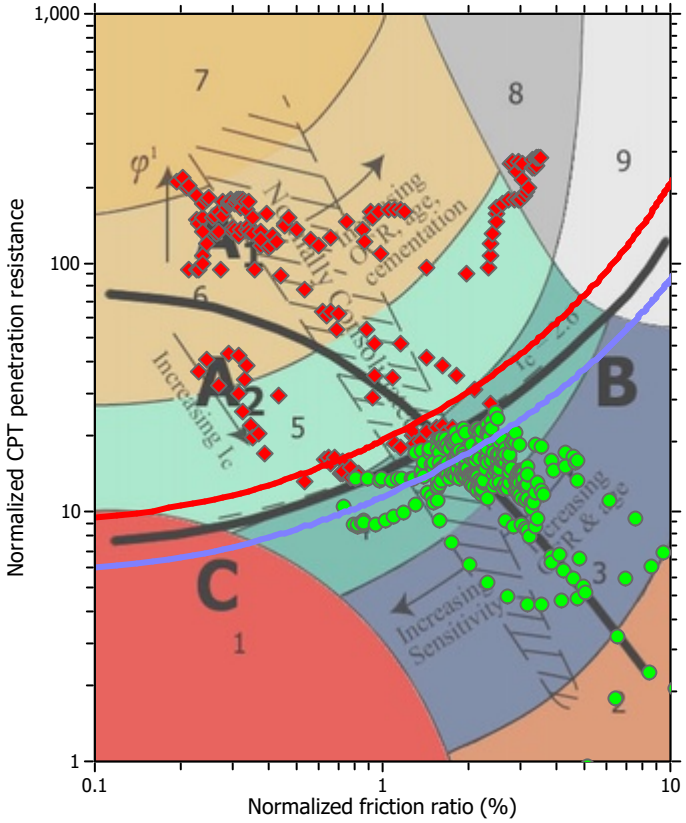
F.S. color scheme

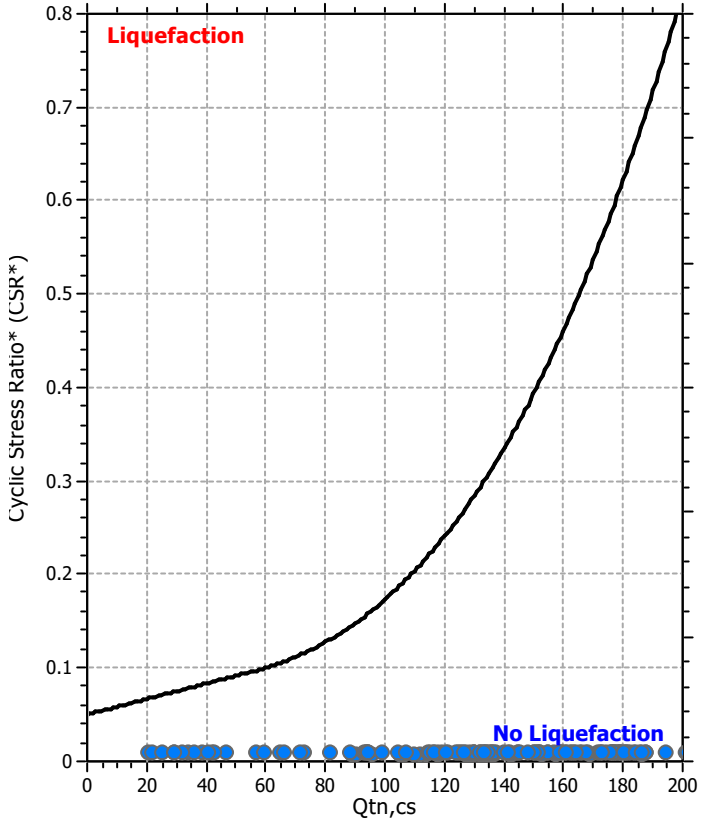
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

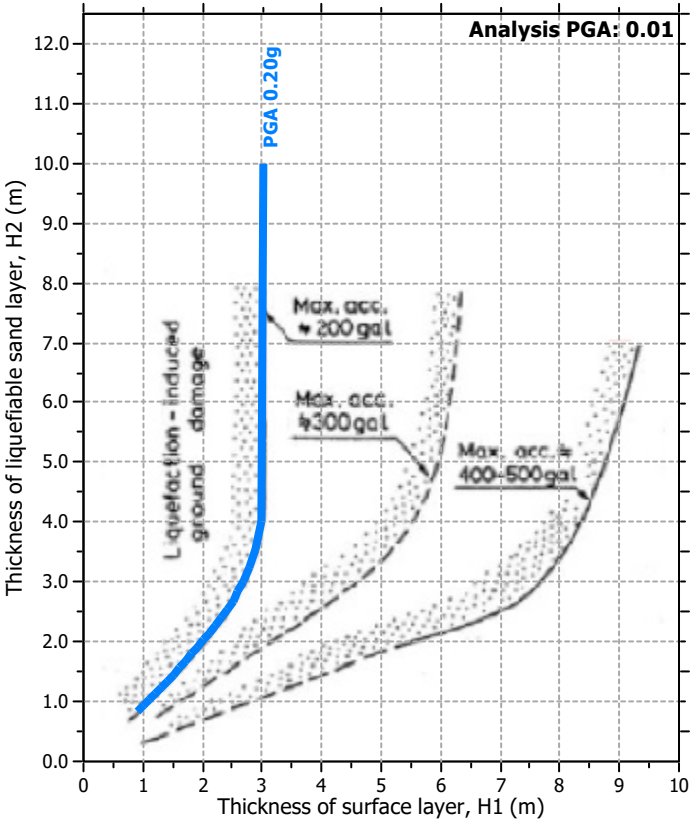
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



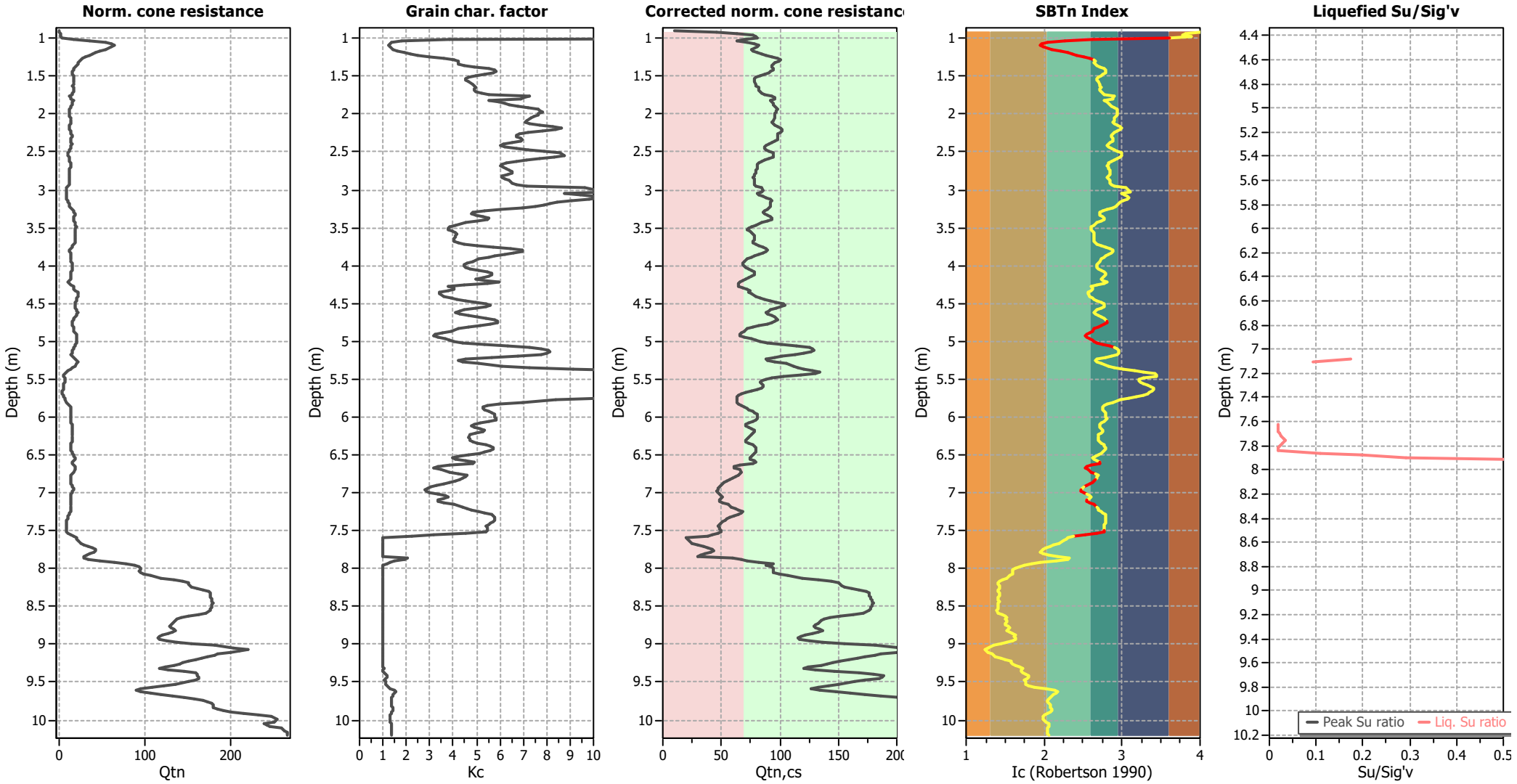




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.70 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.01	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	N/A	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

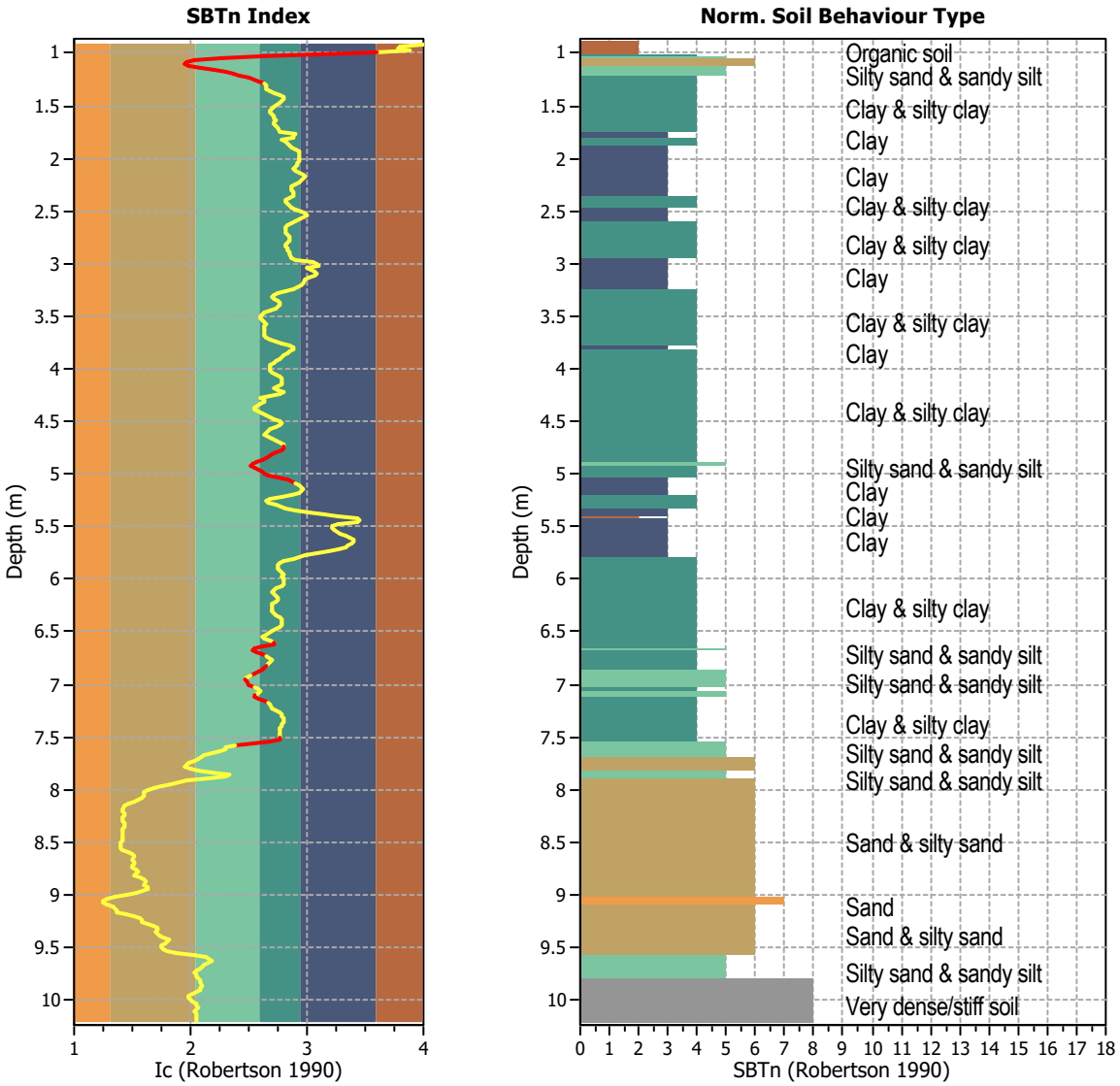
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.70 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.01	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	N/A	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		General statistics	
I_c minimum check value:	1.70	Total points in CPT file:	466
I_c maximum check value:	3.00	Total points excluded:	63
I_c change ratio value:	0.0100	Exclusion percentage:	13.52%
Minimum number of points in layer:	4	Number of layers detected:	10

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	5	Start depth: 1.02 (m)	4	Clay & silty clay
		End depth: 1.10 (m)	6	Sand & silty sand
Transition layer 2	11	Start depth: 1.10 (m)	6	Sand & silty sand
		End depth: 1.30 (m)	4	Clay & silty clay
Transition layer 3	8	Start depth: 4.76 (m)	4	Clay & silty clay
		End depth: 4.90 (m)	5	Silty sand & sandy silt
Transition layer 4	10	Start depth: 4.92 (m)	5	Silty sand & sandy silt
		End depth: 5.10 (m)	3	Clay
Transition layer 5	4	Start depth: 6.62 (m)	4	Clay & silty clay
		End depth: 6.68 (m)	5	Silty sand & sandy silt
Transition layer 6	5	Start depth: 6.68 (m)	5	Silty sand & sandy silt
		End depth: 6.76 (m)	4	Clay & silty clay
Transition layer 7	6	Start depth: 6.84 (m)	4	Clay & silty clay
		End depth: 6.94 (m)	5	Silty sand & sandy silt
Transition layer 8	4	Start depth: 6.98 (m)	5	Silty sand & sandy silt
		End depth: 7.04 (m)	4	Clay & silty clay
Transition layer 9	5	Start depth: 7.12 (m)	5	Silty sand & sandy silt
		End depth: 7.20 (m)	4	Clay & silty clay
Transition layer 10	5	Start depth: 7.52 (m)	4	Clay & silty clay
		End depth: 7.60 (m)	5	Silty sand & sandy silt

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.02	0.30	-1.00	100.00	13.73
2	0.92	0.02	0.30	-1.00	100.00	13.73
3	0.94	0.14	6.80	5.60	100.00	14.14
4	0.96	0.15	10.30	11.80	100.00	14.81
5	0.98	0.09	11.90	25.50	100.00	14.84
6	1.00	0.07	8.90	109.60	100.00	15.03
7	1.02	0.32	10.90	68.20	35.95	15.93
8	1.04	2.27	20.00	448.60	21.18	16.44
9	1.06	2.61	18.90	490.60	13.98	16.76
10	1.08	3.12	18.20	433.00	12.18	16.85
11	1.10	3.43	22.10	51.80	11.52	16.90
12	1.12	3.19	20.30	1.70	12.60	16.99
13	1.14	2.86	23.80	-3.20	15.53	17.05
14	1.16	2.25	28.90	21.80	19.17	17.15
15	1.18	2.14	30.60	57.40	22.68	17.21
16	1.20	2.00	31.60	72.60	24.79	17.22
17	1.22	1.79	32.50	60.30	27.38	17.21
18	1.24	1.59	32.40	40.00	30.83	17.19
19	1.26	1.39	33.70	44.70	34.49	17.13
20	1.28	1.21	32.00	76.90	36.95	17.05
21	1.30	1.19	28.70	82.50	37.99	16.96
22	1.32	1.17	28.50	98.90	37.79	16.88
23	1.34	1.13	26.60	99.80	37.86	16.81
24	1.36	1.11	24.30	81.30	39.24	16.71
25	1.38	0.94	23.70	73.50	41.51	16.62
26	1.40	0.86	23.20	77.50	44.42	16.55
27	1.42	0.83	22.10	83.60	45.67	16.49
28	1.44	0.80	21.00	96.90	45.79	16.41
29	1.46	0.80	19.70	100.40	45.35	16.37
30	1.48	0.82	19.70	100.40	43.68	16.31
31	1.50	0.86	17.70	96.60	41.79	16.26
32	1.52	0.88	16.40	91.70	40.11	16.18
33	1.54	0.88	15.90	91.50	39.50	16.14
34	1.56	0.88	16.00	94.90	39.71	16.15
35	1.58	0.87	16.70	105.90	40.09	16.11
36	1.60	0.82	14.50	105.90	41.04	16.13
37	1.62	0.83	17.20	118.00	41.47	16.13
38	1.64	0.84	16.90	117.80	41.84	16.19
39	1.66	0.84	17.10	122.90	41.43	16.21
40	1.68	0.87	17.70	129.60	41.42	16.23
41	1.70	0.85	17.60	115.00	41.87	16.24
42	1.72	0.83	17.90	115.70	43.06	16.25
43	1.74	0.80	18.70	118.30	44.36	16.27
44	1.76	0.78	19.00	119.50	52.25	16.25
45	1.78	0.39	20.40	97.70	51.10	16.33
46	1.80	0.92	21.90	54.30	50.58	16.38
47	1.82	0.86	21.20	51.40	44.61	16.47
48	1.84	0.81	21.60	60.40	46.50	16.44

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	0.77	21.30	86.90	47.73	16.41
50	1.88	0.76	20.50	88.80	48.53	16.39
51	1.90	0.74	20.90	89.10	50.17	16.38
52	1.92	0.68	21.90	106.60	52.10	16.37
53	1.94	0.66	21.00	107.30	53.88	16.33
54	1.96	0.64	19.80	74.20	54.18	16.29
55	1.98	0.65	20.00	66.60	54.53	16.28
56	2.00	0.64	20.60	64.90	53.92	16.26
57	2.02	0.66	18.80	72.10	53.87	16.29
58	2.04	0.67	21.30	77.30	53.02	16.30
59	2.06	0.69	20.70	80.90	52.55	16.33
60	2.08	0.69	19.80	84.00	51.63	16.30
61	2.10	0.69	19.50	81.90	51.44	16.28
62	2.12	0.68	19.50	77.40	52.35	16.27
63	2.14	0.65	20.00	67.60	54.20	16.28
64	2.16	0.62	20.80	78.30	56.32	16.30
65	2.18	0.60	21.30	78.40	57.79	16.34
66	2.20	0.61	22.40	85.80	56.81	16.39
67	2.22	0.69	23.20	95.10	54.54	16.45
68	2.24	0.73	22.90	97.50	51.93	16.47
69	2.26	0.75	22.40	86.10	50.35	16.46
70	2.28	0.77	22.00	66.60	49.77	16.47
71	2.30	0.77	22.70	73.20	49.93	16.47
72	2.32	0.75	22.90	86.70	50.74	16.46
73	2.34	0.71	21.80	93.50	51.04	16.43
74	2.36	0.73	21.30	97.40	50.57	16.39
75	2.38	0.75	20.60	103.80	48.97	16.35
76	2.40	0.77	19.10	94.30	47.30	16.29
77	2.42	0.78	18.00	82.90	46.88	16.23
78	2.44	0.73	17.50	83.80	47.61	16.16
79	2.46	0.69	16.70	72.30	49.78	16.11
80	2.48	0.64	16.90	82.50	52.06	16.09
81	2.50	0.61	17.50	66.40	54.99	16.10
82	2.52	0.58	18.30	65.50	57.72	16.13
83	2.54	0.55	18.90	70.20	58.41	16.15
84	2.56	0.60	18.70	82.00	56.74	16.15
85	2.58	0.64	17.60	80.20	53.99	16.12
86	2.60	0.65	16.80	85.10	51.65	16.06
87	2.62	0.66	15.20	80.40	49.93	16.01
88	2.64	0.69	15.20	84.80	47.88	15.96
89	2.66	0.72	14.40	90.10	46.98	15.97
90	2.68	0.71	15.00	91.60	46.79	15.96
91	2.70	0.69	14.90	77.10	47.44	15.95
92	2.72	0.68	14.20	75.70	47.85	15.91
93	2.74	0.66	13.80	80.20	48.51	15.87
94	2.76	0.64	14.00	79.10	49.12	15.85
95	2.78	0.64	13.80	84.80	49.06	15.84
96	2.80	0.66	13.30	89.60	48.08	15.84

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	0.68	13.60	96.60	47.17	15.82
98	2.84	0.67	13.10	94.10	46.96	15.83
99	2.86	0.67	13.30	95.30	47.68	15.82
100	2.88	0.65	13.60	96.40	48.38	15.82
101	2.90	0.64	13.40	99.20	48.81	15.81
102	2.92	0.64	13.10	100.00	49.06	15.79
103	2.94	0.62	13.00	94.50	49.98	15.77
104	2.96	0.60	13.20	78.20	51.83	15.78
105	2.98	0.57	13.70	73.80	61.72	15.74
106	3.00	0.27	14.50	81.10	63.93	15.70
107	3.02	0.53	12.70	69.70	65.62	15.64
108	3.04	0.51	12.20	64.60	58.48	15.63
109	3.06	0.47	12.50	62.40	60.98	15.63
110	3.08	0.45	13.30	67.60	63.49	15.71
111	3.10	0.47	15.10	76.80	64.22	15.83
112	3.12	0.50	16.70	79.00	62.59	15.96
113	3.14	0.56	17.60	65.30	59.59	16.05
114	3.16	0.61	17.60	47.90	57.04	16.09
115	3.18	0.62	17.60	41.60	55.78	16.11
116	3.20	0.62	17.70	30.50	54.99	16.13
117	3.22	0.65	18.10	39.30	53.35	16.16
118	3.24	0.70	18.30	45.60	50.80	16.21
119	3.26	0.77	18.90	50.00	46.74	16.28
120	3.28	0.91	19.30	50.20	43.52	16.35
121	3.30	0.95	19.70	55.00	41.00	16.40
122	3.32	0.99	20.20	59.50	40.81	16.45
123	3.34	0.97	21.50	62.70	41.63	16.49
124	3.36	0.92	21.90	72.10	43.33	16.50
125	3.38	0.87	21.50	78.80	44.51	16.50
126	3.40	0.88	22.20	90.00	44.24	16.50
127	3.42	0.93	21.80	106.60	42.09	16.46
128	3.44	0.98	18.60	112.60	39.46	16.40
129	3.46	1.03	18.10	114.60	37.16	16.32
130	3.48	1.04	17.10	119.20	35.87	16.25
131	3.50	1.03	15.10	116.40	35.43	16.18
132	3.52	1.00	15.10	116.90	35.62	16.11
133	3.54	0.97	14.90	120.90	36.56	16.13
134	3.56	0.96	16.20	139.20	37.24	16.17
135	3.58	0.97	16.80	147.60	37.64	16.23
136	3.60	0.98	17.10	144.90	37.37	16.27
137	3.62	1.02	17.70	139.60	37.21	16.29
138	3.64	1.01	17.70	138.10	36.90	16.30
139	3.66	1.02	17.30	141.20	36.98	16.28
140	3.68	1.00	16.80	137.80	37.01	16.25
141	3.70	0.99	16.70	138.80	37.85	16.22
142	3.72	0.92	16.40	134.50	39.37	16.21
143	3.74	0.87	17.00	125.70	42.17	16.20
144	3.76	0.79	17.50	121.50	45.38	16.20

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	0.72	17.90	139.50	48.63	16.18
146	3.80	0.68	17.60	124.90	50.81	16.16
147	3.82	0.66	17.30	128.20	51.03	16.12
148	3.84	0.69	16.50	143.20	49.40	16.06
149	3.86	0.72	14.70	146.30	47.58	16.00
150	3.88	0.71	14.40	152.40	45.65	15.90
151	3.90	0.72	12.40	160.20	44.43	15.83
152	3.92	0.74	12.10	170.80	42.47	15.76
153	3.94	0.77	11.80	180.70	41.04	15.74
154	3.96	0.79	11.40	190.70	39.89	15.72
155	3.98	0.80	11.40	196.60	39.23	15.74
156	4.00	0.83	12.00	192.90	39.18	15.79
157	4.02	0.83	12.70	189.90	39.49	15.84
158	4.04	0.82	13.10	182.30	40.68	15.89
159	4.06	0.79	13.90	182.80	42.35	15.93
160	4.08	0.75	14.50	193.80	44.18	15.96
161	4.10	0.73	14.80	203.00	45.15	15.95
162	4.12	0.72	13.90	211.30	45.16	15.92
163	4.14	0.73	13.40	217.50	44.61	15.86
164	4.16	0.72	12.60	213.80	43.31	15.81
165	4.18	0.76	12.00	210.90	41.77	15.76
166	4.20	0.79	11.50	196.10	43.45	15.54
167	4.22	0.49	7.30	193.10	46.45	15.30
168	4.24	0.49	7.30	193.10	44.18	15.31
169	4.26	0.90	11.40	182.20	39.32	15.55
170	4.28	0.90	11.40	182.20	35.63	15.76
171	4.30	0.90	11.40	182.20	36.82	15.88
172	4.32	0.90	15.10	163.80	36.86	16.04
173	4.34	1.03	16.40	169.70	35.60	16.22
174	4.36	1.16	17.10	194.50	33.33	16.31
175	4.38	1.22	17.60	126.80	33.26	16.39
176	4.40	1.14	19.60	51.10	34.47	16.46
177	4.42	1.14	21.00	53.70	36.30	16.54
178	4.44	1.14	22.20	42.90	37.72	16.61
179	4.46	1.09	24.00	35.90	39.60	16.68
180	4.48	1.04	25.70	48.40	41.79	16.76
181	4.50	1.03	28.30	71.30	43.94	16.82
182	4.52	0.97	29.40	95.00	44.82	16.83
183	4.54	0.98	26.80	96.70	43.85	16.78
184	4.56	1.05	24.60	94.90	41.90	16.74
185	4.58	1.08	25.60	102.20	39.34	16.70
186	4.60	1.15	22.90	99.40	38.15	16.69
187	4.62	1.15	23.30	104.80	37.39	16.67
188	4.64	1.13	23.70	115.10	38.40	16.67
189	4.66	1.07	23.70	87.30	40.08	16.68
190	4.68	1.02	24.90	91.40	42.20	16.68
191	4.70	0.96	25.20	124.30	43.96	16.66
192	4.72	0.91	23.60	147.60	45.52	16.62

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	0.86	23.30	166.80	46.21	16.55
194	4.76	0.84	21.60	188.40	46.08	16.46
195	4.78	0.84	19.30	193.40	44.81	16.35
196	4.80	0.85	17.50	205.00	42.61	16.21
197	4.82	0.88	14.60	187.60	40.27	16.08
198	4.84	0.90	13.40	196.60	37.79	15.98
199	4.86	0.95	13.10	190.20	36.11	15.95
200	4.88	0.99	13.20	196.50	34.14	15.99
201	4.90	1.13	13.80	188.30	32.41	16.02
202	4.92	1.18	13.10	141.00	31.81	16.09
203	4.94	1.16	15.30	66.40	32.91	16.19
204	4.96	1.12	17.80	82.10	34.87	16.32
205	4.98	1.10	18.90	71.80	35.95	16.43
206	5.00	1.16	20.40	30.10	37.03	16.52
207	5.02	1.12	22.60	30.70	38.79	16.62
208	5.04	1.04	24.90	-8.70	43.62	16.83
209	5.06	0.98	35.90	-17.50	48.32	17.01
210	5.08	0.96	38.30	-9.80	52.28	17.14
211	5.10	0.92	38.80	-4.20	54.31	17.16
212	5.12	0.88	39.10	3.90	55.60	17.14
213	5.14	0.87	37.60	3.00	55.97	17.09
214	5.16	0.85	34.90	10.20	55.38	16.95
215	5.18	0.80	27.30	10.80	54.40	16.78
216	5.20	0.79	24.40	13.70	50.19	16.61
217	5.22	0.95	22.40	17.00	45.20	16.57
218	5.24	1.07	22.50	17.10	39.71	16.60
219	5.26	1.26	22.60	7.60	37.98	16.72
220	5.28	1.25	27.50	-19.30	38.91	16.87
221	5.30	1.14	31.90	-27.90	42.36	16.99
222	5.32	1.07	33.70	-30.50	46.98	16.98
223	5.34	0.86	30.20	-36.90	52.19	16.92
224	5.36	0.77	31.00	-46.20	59.91	16.86
225	5.38	0.65	34.10	-52.60	69.44	16.88
226	5.40	0.53	37.50	-52.40	78.30	16.90
227	5.42	0.53	37.50	-52.40	92.53	16.69
228	5.44	0.25	23.80	40.00	94.06	16.40
229	5.46	0.39	18.30	47.90	92.66	16.00
230	5.48	0.41	15.90	52.60	78.48	15.84
231	5.50	0.42	13.80	48.40	74.78	15.70
232	5.52	0.42	12.60	44.70	73.94	15.59
233	5.54	0.39	12.00	37.60	75.79	15.52
234	5.56	0.37	12.20	42.80	79.47	15.51
235	5.58	0.35	13.00	49.50	83.47	15.52
236	5.60	0.33	13.00	60.80	87.08	15.51
237	5.62	0.31	12.40	68.40	89.51	15.45
238	5.64	0.30	11.50	72.10	89.51	15.30
239	5.66	0.30	8.80	85.00	87.99	15.11
240	5.68	0.29	7.80	89.80	85.47	14.90

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.29	6.90	94.70	83.22	14.77
242	5.72	0.30	6.20	97.40	78.18	14.68
243	5.74	0.34	6.00	93.70	71.55	14.68
244	5.76	0.38	6.20	94.80	64.36	14.78
245	5.78	0.45	7.00	103.00	56.97	14.92
246	5.80	0.55	7.30	114.40	51.01	15.11
247	5.82	0.65	8.60	114.50	46.46	15.34
248	5.84	0.76	10.60	126.40	44.22	15.56
249	5.86	0.79	11.70	131.50	43.14	15.73
250	5.88	0.82	12.50	136.90	43.18	15.85
251	5.90	0.83	14.00	139.10	43.47	15.93
252	5.92	0.83	14.30	137.30	44.37	16.02
253	5.94	0.82	15.80	155.50	45.05	16.08
254	5.96	0.83	16.50	168.10	45.67	16.14
255	5.98	0.83	16.50	173.90	45.51	16.14
256	6.00	0.84	15.90	168.50	45.72	16.15
257	6.02	0.83	16.90	175.50	45.98	16.14
258	6.04	0.80	16.10	207.60	45.85	16.11
259	6.06	0.82	14.80	221.20	44.61	16.04
260	6.08	0.86	13.90	223.20	42.69	15.98
261	6.10	0.89	13.40	228.60	41.32	15.96
262	6.12	0.91	13.40	200.70	40.78	15.97
263	6.14	0.91	14.00	191.70	41.31	16.03
264	6.16	0.91	15.60	189.90	42.58	16.09
265	6.18	0.86	15.90	189.10	43.54	16.16
266	6.20	0.90	17.10	221.60	43.36	16.20
267	6.22	0.94	17.00	241.30	41.81	16.23
268	6.24	1.00	16.20	225.50	40.67	16.21
269	6.26	0.98	15.80	211.30	40.27	16.15
270	6.28	0.94	14.60	216.20	40.56	16.08
271	6.30	0.92	13.80	220.40	40.64	16.01
272	6.32	0.92	13.60	223.40	41.17	16.00
273	6.34	0.90	14.60	211.80	42.20	16.04
274	6.36	0.88	15.50	206.90	43.79	16.11
275	6.38	0.86	16.50	203.50	44.80	16.15
276	6.40	0.86	16.50	202.60	45.45	16.19
277	6.42	0.87	17.20	216.70	45.25	16.20
278	6.44	0.89	16.90	216.90	44.71	16.23
279	6.46	0.92	17.30	212.50	43.67	16.24
280	6.48	0.96	17.20	209.70	42.67	16.27
281	6.50	0.99	17.50	198.00	40.18	16.32
282	6.52	1.18	18.20	196.60	38.10	16.38
283	6.54	1.22	18.90	190.20	36.44	16.42
284	6.56	1.21	18.00	144.70	37.23	16.41
285	6.58	1.11	18.30	68.40	39.67	16.43
286	6.60	1.02	21.00	99.00	41.52	16.38
287	6.62	1.00	16.60	165.60	41.09	16.30
288	6.64	1.06	14.90	204.70	35.78	16.06

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	1.27	9.80	287.40	33.20	16.01
290	6.68	1.24	14.00	185.70	32.06	16.04
291	6.70	1.24	15.50	225.10	33.92	16.19
292	6.72	1.20	15.50	266.70	35.87	16.14
293	6.74	0.96	13.10	264.10	38.09	15.99
294	6.76	0.88	11.50	279.10	40.02	15.79
295	6.78	0.87	10.10	302.50	39.72	15.66
296	6.80	0.89	9.70	347.40	38.96	15.57
297	6.82	0.86	9.10	369.30	38.25	15.47
298	6.84	0.85	7.70	372.50	37.33	15.36
299	6.86	0.89	7.40	378.00	36.06	15.29
300	6.88	0.93	7.50	391.80	34.39	15.30
301	6.90	1.00	7.40	407.90	32.75	15.31
302	6.92	1.07	7.30	409.30	31.10	15.34
303	6.94	1.13	7.50	404.20	30.12	15.34
304	6.96	1.12	7.10	432.80	29.52	15.30
305	6.98	1.11	6.50	415.50	29.69	15.22
306	7.00	1.05	6.30	369.80	30.81	15.20
307	7.02	0.98	7.00	381.20	32.95	15.21
308	7.04	0.89	7.10	417.80	34.84	15.21
309	7.06	0.87	6.80	447.40	35.41	15.21
310	7.08	0.91	7.00	461.80	34.37	15.18
311	7.10	0.97	6.50	445.70	33.18	15.17
312	7.12	0.98	6.30	415.30	33.10	15.20
313	7.14	0.97	7.40	319.20	34.67	15.31
314	7.16	0.92	8.80	303.40	37.11	15.45
315	7.18	0.88	9.60	306.30	38.79	15.59
316	7.20	0.92	10.70	302.80	39.97	15.73
317	7.22	0.94	12.70	292.60	40.70	15.84
318	7.24	0.92	12.80	249.40	42.39	15.92
319	7.26	0.86	13.60	258.60	43.69	15.83
320	7.28	0.79	10.40	291.70	45.07	15.66
321	7.30	0.70	8.40	321.80	45.26	15.37
322	7.32	0.68	7.20	336.20	45.65	15.18
323	7.34	0.65	6.70	341.10	45.66	15.03
324	7.36	0.63	5.90	342.90	45.75	14.89
325	7.38	0.61	5.20	345.70	45.45	14.76
326	7.40	0.61	4.80	342.10	44.82	14.64
327	7.42	0.61	4.40	340.80	44.39	14.58
328	7.44	0.61	4.50	332.50	43.99	14.55
329	7.46	0.62	4.40	331.00	44.17	14.61
330	7.48	0.64	5.10	315.90	44.08	14.67
331	7.50	0.65	5.10	313.70	44.21	14.70
332	7.52	0.63	4.80	322.00	43.94	14.71
333	7.54	0.66	5.20	318.40	39.67	14.74
334	7.56	0.91	4.90	341.70	31.90	14.79
335	7.58	1.30	4.20	325.60	25.47	14.84
336	7.60	1.55	4.70	156.60	5.00	14.98

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	1.57	5.90	170.90	5.00	15.10
338	7.64	1.52	5.50	213.60	5.00	15.15
339	7.66	1.92	5.10	231.80	5.00	15.28
340	7.68	2.26	7.10	187.80	5.00	15.52
341	7.70	2.59	8.40	109.60	5.00	15.80
342	7.72	2.98	9.50	63.70	5.00	16.01
343	7.74	3.35	11.00	31.40	5.00	16.10
344	7.76	3.47	9.60	43.50	5.00	16.03
345	7.78	3.21	7.70	65.10	5.00	15.76
346	7.80	2.84	5.30	93.20	5.00	15.51
347	7.82	2.45	5.90	189.70	5.00	15.50
348	7.84	2.18	8.30	217.00	5.00	15.86
349	7.86	2.05	13.60	297.40	23.72	16.68
350	7.88	2.23	35.40	6.80	22.54	17.13
351	7.90	3.45	30.70	55.90	17.51	17.49
352	7.92	5.09	31.70	40.40	11.88	17.59
353	7.94	6.44	33.60	-9.40	8.92	17.71
354	7.96	7.24	33.10	-41.30	5.00	17.69
355	7.98	7.70	26.60	-48.20	5.00	17.56
356	8.00	7.86	21.30	-7.60	4.88	17.27
357	8.02	7.82	14.90	18.80	4.38	17.06
358	8.04	7.73	15.70	34.20	4.26	16.99
359	8.06	7.80	18.30	38.60	4.41	17.09
360	8.08	8.01	19.40	40.30	4.21	17.21
361	8.10	8.86	20.40	40.30	3.67	17.33
362	8.12	10.00	22.90	55.50	3.12	17.55
363	8.14	11.29	30.10	14.70	2.44	17.69
364	8.16	12.59	26.90	-13.10	1.93	17.79
365	8.18	13.07	27.10	-4.50	1.69	17.83
366	8.20	12.93	31.90	3.10	1.74	17.90
367	8.22	12.98	32.00	19.70	1.91	17.99
368	8.24	13.17	34.80	68.80	1.89	18.04
369	8.26	13.52	35.60	62.90	1.78	18.15
370	8.28	14.71	40.70	63.40	1.71	18.28
371	8.30	15.03	46.00	58.50	1.75	18.42
372	8.32	15.17	50.60	-3.80	1.92	18.53
373	8.34	15.10	53.30	-10.60	1.97	18.56
374	8.36	15.18	49.70	4.10	1.88	18.52
375	8.38	15.23	45.70	45.80	1.70	18.47
376	8.40	15.43	46.30	33.60	1.75	18.50
377	8.42	15.40	53.80	11.80	1.68	18.49
378	8.44	15.56	44.30	2.60	1.79	18.55
379	8.46	15.48	52.80	1.10	1.65	18.51
380	8.48	15.70	48.40	5.80	1.65	18.49
381	8.50	15.41	42.50	33.00	1.55	18.44
382	8.52	15.45	46.50	25.30	1.57	18.43
383	8.54	15.52	48.10	7.40	1.54	18.42
384	8.56	15.39	40.50	2.40	1.44	18.35

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	15.21	38.70	7.90	1.67	18.36
386	8.60	14.30	50.20	4.60	2.36	18.44
387	8.62	12.83	53.40	-10.70	2.86	18.38
388	8.64	12.16	34.40	-24.30	3.07	18.23
389	8.66	11.87	36.20	-12.70	2.89	18.04
390	8.68	11.66	35.50	23.20	3.02	18.05
391	8.70	11.77	35.70	30.10	3.02	18.01
392	8.72	11.49	32.60	49.00	2.80	17.87
393	8.74	11.29	23.90	39.90	2.84	17.82
394	8.76	11.20	32.30	54.50	3.37	17.99
395	8.78	11.09	47.90	32.50	3.68	18.15
396	8.80	11.62	38.20	-7.30	3.43	18.15
397	8.82	12.20	31.90	-11.70	3.13	18.11
398	8.84	11.77	42.40	39.30	3.79	18.25
399	8.86	10.60	54.20	35.50	4.39	18.30
400	8.88	10.76	39.90	11.40	4.77	18.24
401	8.90	10.12	38.00	18.50	4.49	18.06
402	8.92	9.83	35.60	27.40	4.87	18.09
403	8.94	9.99	44.20	38.60	4.86	18.15
404	8.96	10.62	43.00	25.90	4.16	18.16
405	8.98	12.05	34.50	77.90	3.26	18.19
406	9.00	13.40	43.10	69.40	2.05	18.17
407	9.02	15.80	36.10	58.70	1.00	18.27
408	9.04	19.44	38.10	55.20	0.21	18.31
409	9.06	20.22	41.90	62.80	0.00	18.38
410	9.08	20.40	39.80	68.80	0.00	18.26
411	9.10	16.69	28.20	67.70	0.26	18.28
412	9.12	17.62	45.90	58.30	0.74	18.25
413	9.14	16.02	39.50	73.00	1.04	18.32
414	9.16	15.52	36.80	64.20	1.16	18.18
415	9.18	15.07	33.20	48.80	2.12	18.46
416	9.20	13.90	72.40	76.00	2.99	18.63
417	9.22	13.39	61.30	63.80	3.85	18.74
418	9.24	12.93	53.90	65.00	3.97	18.63
419	9.26	12.17	57.80	54.60	4.20	18.59
420	9.28	12.17	57.80	54.60	4.81	18.64
421	9.30	11.38	62.70	63.80	5.81	18.62
422	9.32	9.14	60.40	13.30	6.47	18.62
423	9.34	10.48	60.40	13.30	6.44	18.85
424	9.36	13.90	98.30	-54.20	6.23	19.21
425	9.38	14.13	128.50	-60.90	6.72	19.57
426	9.40	14.04	153.20	-11.80	7.45	19.74
427	9.42	14.40	158.90	-40.90	8.30	19.89
428	9.44	13.96	188.10	-23.70	8.07	19.87
429	9.46	14.49	145.00	15.70	7.70	19.82
430	9.48	14.63	135.80	15.00	7.01	19.64
431	9.50	13.29	123.20	10.80	7.18	19.51
432	9.52	11.98	107.00	25.00	7.28	19.25

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
433	9.54	11.02	72.80	42.80	8.16	19.11
434	9.56	9.47	97.10	54.00	9.87	19.05
435	9.58	8.08	105.90	82.30	13.68	19.27
436	9.60	7.31	144.90	172.90	17.02	19.53
437	9.62	7.85	194.80	259.30	18.21	19.81
438	9.64	9.24	218.90	624.10	17.30	20.02
439	9.66	10.37	232.10	805.90	16.41	20.20
440	9.68	11.07	278.50	552.20	15.69	20.38
441	9.70	12.61	309.70	449.70	15.09	20.56
442	9.72	14.16	341.00	147.40	14.43	20.69
443	9.74	14.54	360.60	-21.80	14.09	20.80
444	9.76	15.29	385.30	-23.90	14.28	20.91
445	9.78	15.84	436.20	-47.50	14.52	21.00
446	9.80	15.82	448.30	-63.00	14.98	21.07
447	9.82	15.61	458.10	-63.70	15.29	21.10
448	9.84	15.81	474.90	-60.00	15.45	21.14
449	9.86	16.24	490.30	-58.00	15.59	21.20
450	9.88	16.72	532.90	-57.50	15.51	21.28
451	9.90	17.70	562.40	-46.40	15.31	21.36
452	9.92	18.51	578.50	-52.50	14.30	21.44
453	9.94	21.17	594.50	-54.70	13.28	21.50
454	9.96	22.50	616.50	-54.60	12.52	21.56
455	9.98	22.82	636.40	-52.50	12.53	21.58
456	10.00	22.88	673.10	-60.70	12.96	21.58
457	10.02	22.24	690.00	-56.40	13.39	21.58
458	10.04	22.33	697.50	-54.90	14.46	21.58
459	10.06	19.74	727.00	-49.20	14.47	21.58
460	10.08	23.21	741.90	-54.10	14.61	21.58
461	10.10	23.40	783.80	-47.60	14.02	21.58
462	10.12	23.48	798.60	-54.20	14.16	21.58
463	10.14	23.89	808.00	-57.30	14.19	21.58
464	10.16	24.11	825.30	-56.70	14.23	21.58
465	10.18	24.21	846.40	-58.20	14.35	21.58
466	10.20	24.21	851.00	-57.40	14.44	21.58

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	0.90	12.36	0.00	12.36	1.00	0.006	1.38	0.005	1.00	1.00	2.000	No
2	0.92	12.64	0.00	12.64	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
3	0.94	12.92	0.00	12.92	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
4	0.96	13.21	0.00	13.21	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
5	0.98	13.51	0.00	13.51	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
6	1.00	13.81	0.00	13.81	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
7	1.02	14.13	0.00	14.13	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
8	1.04	14.46	0.00	14.46	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
9	1.06	14.79	0.00	14.79	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
10	1.08	15.13	0.00	15.13	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
11	1.10	15.47	0.00	15.47	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
12	1.12	15.81	0.00	15.81	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
13	1.14	16.15	0.00	16.15	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
14	1.16	16.49	0.00	16.49	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
15	1.18	16.84	0.00	16.84	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
16	1.20	17.18	0.00	17.18	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
17	1.22	17.53	0.00	17.53	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
18	1.24	17.87	0.00	17.87	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
19	1.26	18.21	0.00	18.21	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
20	1.28	18.55	0.00	18.55	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
21	1.30	18.89	0.00	18.89	0.99	0.006	1.38	0.005	1.00	1.00	2.000	Yes
22	1.32	19.23	0.00	19.23	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
23	1.34	19.57	0.00	19.57	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
24	1.36	19.90	0.00	19.90	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
25	1.38	20.23	0.00	20.23	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
26	1.40	20.56	0.00	20.56	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
27	1.42	20.89	0.00	20.89	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
28	1.44	21.22	0.00	21.22	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
29	1.46	21.55	0.00	21.55	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
30	1.48	21.88	0.00	21.88	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
31	1.50	22.20	0.00	22.20	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
32	1.52	22.52	0.00	22.52	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
33	1.54	22.85	0.00	22.85	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
34	1.56	23.17	0.00	23.17	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
35	1.58	23.49	0.00	23.49	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
36	1.60	23.81	0.00	23.81	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
37	1.62	24.14	0.00	24.14	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
38	1.64	24.46	0.00	24.46	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
39	1.66	24.79	0.00	24.79	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
40	1.68	25.11	0.00	25.11	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
41	1.70	25.43	0.00	25.43	0.99	0.006	1.38	0.005	1.00	1.00	2.000	No
42	1.72	25.76	0.20	25.56	0.99	0.006	1.38	0.005	1.00	1.00	0.005	No
43	1.74	26.09	0.39	25.69	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
44	1.76	26.41	0.59	25.82	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
45	1.78	26.74	0.78	25.95	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
46	1.80	27.06	0.98	26.08	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
47	1.82	27.39	1.18	26.22	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
48	1.84	27.72	1.37	26.35	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	1.86	28.05	1.57	26.48	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
50	1.88	28.38	1.77	26.61	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
51	1.90	28.71	1.96	26.74	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
52	1.92	29.03	2.16	26.88	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
53	1.94	29.36	2.35	27.01	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
54	1.96	29.69	2.55	27.14	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
55	1.98	30.01	2.75	27.26	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
56	2.00	30.34	2.94	27.39	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
57	2.02	30.66	3.14	27.52	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
58	2.04	30.99	3.34	27.65	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
59	2.06	31.32	3.53	27.78	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
60	2.08	31.64	3.73	27.91	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
61	2.10	31.97	3.92	28.04	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
62	2.12	32.29	4.12	28.17	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
63	2.14	32.62	4.32	28.30	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
64	2.16	32.94	4.51	28.43	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
65	2.18	33.27	4.71	28.56	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
66	2.20	33.60	4.91	28.69	0.99	0.007	1.38	0.005	1.00	1.00	0.005	No
67	2.22	33.93	5.10	28.83	0.99	0.008	1.38	0.005	1.00	1.00	0.005	No
68	2.24	34.26	5.30	28.96	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
69	2.26	34.59	5.49	29.09	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
70	2.28	34.92	5.69	29.23	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
71	2.30	35.24	5.89	29.36	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
72	2.32	35.57	6.08	29.49	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
73	2.34	35.90	6.28	29.62	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
74	2.36	36.23	6.47	29.76	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
75	2.38	36.56	6.67	29.89	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
76	2.40	36.88	6.87	30.02	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
77	2.42	37.21	7.06	30.14	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
78	2.44	37.53	7.26	30.27	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
79	2.46	37.85	7.46	30.40	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
80	2.48	38.18	7.65	30.52	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
81	2.50	38.50	7.85	30.65	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
82	2.52	38.82	8.04	30.78	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
83	2.54	39.14	8.24	30.90	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
84	2.56	39.47	8.44	31.03	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
85	2.58	39.79	8.63	31.16	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
86	2.60	40.11	8.83	31.28	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
87	2.62	40.43	9.03	31.40	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
88	2.64	40.75	9.22	31.53	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
89	2.66	41.07	9.42	31.65	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
90	2.68	41.39	9.61	31.77	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
91	2.70	41.71	9.81	31.90	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
92	2.72	42.02	10.01	32.02	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
93	2.74	42.34	10.20	32.14	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
94	2.76	42.66	10.40	32.26	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
95	2.78	42.98	10.59	32.38	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No
96	2.80	43.29	10.79	32.50	0.98	0.008	1.38	0.006	1.00	1.00	0.006	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	2.82	43.61	10.99	32.62	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
98	2.84	43.93	11.18	32.74	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
99	2.86	44.24	11.38	32.86	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
100	2.88	44.56	11.58	32.98	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
101	2.90	44.87	11.77	33.10	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
102	2.92	45.19	11.97	33.22	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
103	2.94	45.51	12.16	33.34	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
104	2.96	45.82	12.36	33.46	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
105	2.98	46.14	12.56	33.58	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
106	3.00	46.45	12.75	33.70	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
107	3.02	46.76	12.95	33.81	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
108	3.04	47.08	13.15	33.93	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
109	3.06	47.39	13.34	34.05	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
110	3.08	47.70	13.54	34.16	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
111	3.10	48.02	13.73	34.29	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
112	3.12	48.34	13.93	34.41	0.98	0.009	1.38	0.006	1.00	1.00	0.006	No
113	3.14	48.66	14.13	34.53	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
114	3.16	48.98	14.32	34.66	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
115	3.18	49.30	14.52	34.78	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
116	3.20	49.63	14.72	34.91	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
117	3.22	49.95	14.91	35.04	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
118	3.24	50.27	15.11	35.17	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
119	3.26	50.60	15.30	35.30	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
120	3.28	50.93	15.50	35.43	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
121	3.30	51.25	15.70	35.56	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
122	3.32	51.58	15.89	35.69	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
123	3.34	51.91	16.09	35.82	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
124	3.36	52.24	16.28	35.96	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
125	3.38	52.57	16.48	36.09	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
126	3.40	52.90	16.68	36.23	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
127	3.42	53.23	16.87	36.36	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
128	3.44	53.56	17.07	36.49	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
129	3.46	53.89	17.27	36.62	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
130	3.48	54.21	17.46	36.75	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
131	3.50	54.53	17.66	36.88	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
132	3.52	54.86	17.85	37.00	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
133	3.54	55.18	18.05	37.13	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
134	3.56	55.50	18.25	37.26	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
135	3.58	55.83	18.44	37.38	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
136	3.60	56.15	18.64	37.51	0.98	0.009	1.38	0.007	1.00	1.00	0.007	No
137	3.62	56.48	18.84	37.64	0.98	0.010	1.38	0.007	1.00	1.00	0.007	No
138	3.64	56.80	19.03	37.77	0.98	0.010	1.38	0.007	1.00	1.00	0.007	No
139	3.66	57.13	19.23	37.90	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
140	3.68	57.46	19.42	38.03	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
141	3.70	57.78	19.62	38.16	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
142	3.72	58.10	19.82	38.29	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
143	3.74	58.43	20.01	38.42	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
144	3.76	58.75	20.21	38.54	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	3.78	59.08	20.40	38.67	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
146	3.80	59.40	20.60	38.80	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
147	3.82	59.72	20.80	38.92	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
148	3.84	60.04	20.99	39.05	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
149	3.86	60.36	21.19	39.17	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
150	3.88	60.68	21.39	39.29	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
151	3.90	61.00	21.58	39.41	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
152	3.92	61.31	21.78	39.53	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
153	3.94	61.63	21.97	39.65	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
154	3.96	61.94	22.17	39.77	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
155	3.98	62.26	22.37	39.89	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
156	4.00	62.57	22.56	40.01	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
157	4.02	62.89	22.76	40.13	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
158	4.04	63.21	22.96	40.25	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
159	4.06	63.52	23.15	40.37	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
160	4.08	63.84	23.35	40.50	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
161	4.10	64.16	23.54	40.62	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
162	4.12	64.48	23.74	40.74	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
163	4.14	64.80	23.94	40.86	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
164	4.16	65.12	24.13	40.98	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
165	4.18	65.43	24.33	41.10	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
166	4.20	65.74	24.53	41.22	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
167	4.22	66.05	24.72	41.33	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
168	4.24	66.35	24.92	41.44	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
169	4.26	66.66	25.11	41.55	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
170	4.28	66.98	25.31	41.67	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
171	4.30	67.30	25.51	41.79	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
172	4.32	67.62	25.70	41.92	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
173	4.34	67.94	25.90	42.04	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
174	4.36	68.27	26.09	42.17	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
175	4.38	68.60	26.29	42.31	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
176	4.40	68.93	26.49	42.44	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
177	4.42	69.26	26.68	42.57	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
178	4.44	69.59	26.88	42.71	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
179	4.46	69.92	27.08	42.85	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
180	4.48	70.26	27.27	42.99	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
181	4.50	70.59	27.47	43.13	0.97	0.010	1.38	0.007	1.00	1.00	0.007	No
182	4.52	70.93	27.66	43.27	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
183	4.54	71.27	27.86	43.41	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
184	4.56	71.60	28.06	43.54	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
185	4.58	71.93	28.25	43.68	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
186	4.60	72.27	28.45	43.82	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
187	4.62	72.60	28.65	43.96	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
188	4.64	72.94	28.84	44.09	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
189	4.66	73.27	29.04	44.23	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
190	4.68	73.60	29.23	44.37	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
191	4.70	73.94	29.43	44.51	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
192	4.72	74.27	29.63	44.64	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	4.74	74.60	29.82	44.78	0.97	0.010	1.38	0.008	1.00	1.00	0.008	No
194	4.76	74.93	30.02	44.91	0.97	0.010	1.38	0.008	1.00	1.00	2.000	Yes
195	4.78	75.26	30.21	45.04	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
196	4.80	75.58	30.41	45.17	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
197	4.82	75.90	30.61	45.29	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
198	4.84	76.22	30.80	45.42	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
199	4.86	76.54	31.00	45.54	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
200	4.88	76.86	31.20	45.66	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
201	4.90	77.18	31.39	45.79	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
202	4.92	77.50	31.59	45.91	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
203	4.94	77.83	31.78	46.04	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
204	4.96	78.15	31.98	46.17	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
205	4.98	78.48	32.18	46.30	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
206	5.00	78.81	32.37	46.44	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
207	5.02	79.14	32.57	46.57	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
208	5.04	79.48	32.77	46.71	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
209	5.06	79.82	32.96	46.86	0.97	0.011	1.38	0.008	1.00	1.00	2.000	Yes
210	5.08	80.16	33.16	47.01	0.96	0.011	1.38	0.008	1.00	1.00	2.000	Yes
211	5.10	80.51	33.35	47.15	0.96	0.011	1.38	0.008	1.00	1.00	2.000	Yes
212	5.12	80.85	33.55	47.30	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
213	5.14	81.19	33.75	47.44	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
214	5.16	81.53	33.94	47.59	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
215	5.18	81.87	34.14	47.73	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
216	5.20	82.20	34.34	47.86	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
217	5.22	82.53	34.53	48.00	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
218	5.24	82.86	34.73	48.13	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
219	5.26	83.20	34.92	48.27	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
220	5.28	83.53	35.12	48.41	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
221	5.30	83.87	35.32	48.56	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
222	5.32	84.21	35.51	48.70	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
223	5.34	84.55	35.71	48.84	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
224	5.36	84.89	35.90	48.98	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
225	5.38	85.23	36.10	49.12	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
226	5.40	85.56	36.30	49.27	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
227	5.42	85.90	36.49	49.40	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
228	5.44	86.23	36.69	49.54	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
229	5.46	86.55	36.89	49.66	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
230	5.48	86.86	37.08	49.78	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
231	5.50	87.18	37.28	49.90	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
232	5.52	87.49	37.47	50.01	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
233	5.54	87.80	37.67	50.13	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
234	5.56	88.11	37.87	50.24	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
235	5.58	88.42	38.06	50.36	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
236	5.60	88.73	38.26	50.47	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
237	5.62	89.04	38.46	50.58	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
238	5.64	89.34	38.65	50.69	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
239	5.66	89.65	38.85	50.80	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
240	5.68	89.94	39.04	50.90	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	5.70	90.24	39.24	51.00	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
242	5.72	90.53	39.44	51.10	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
243	5.74	90.83	39.63	51.19	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
244	5.76	91.12	39.83	51.29	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
245	5.78	91.42	40.02	51.40	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
246	5.80	91.72	40.22	51.50	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
247	5.82	92.03	40.42	51.61	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
248	5.84	92.34	40.61	51.73	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
249	5.86	92.66	40.81	51.85	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
250	5.88	92.97	41.01	51.97	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
251	5.90	93.29	41.20	52.09	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
252	5.92	93.61	41.40	52.21	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
253	5.94	93.93	41.59	52.34	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
254	5.96	94.26	41.79	52.47	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
255	5.98	94.58	41.99	52.59	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
256	6.00	94.90	42.18	52.72	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
257	6.02	95.22	42.38	52.85	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
258	6.04	95.55	42.58	52.97	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
259	6.06	95.87	42.77	53.10	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
260	6.08	96.19	42.97	53.22	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
261	6.10	96.51	43.16	53.34	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
262	6.12	96.83	43.36	53.47	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
263	6.14	97.15	43.56	53.59	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
264	6.16	97.47	43.75	53.72	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
265	6.18	97.79	43.95	53.84	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
266	6.20	98.12	44.15	53.97	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
267	6.22	98.44	44.34	54.10	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
268	6.24	98.76	44.54	54.23	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
269	6.26	99.09	44.73	54.35	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
270	6.28	99.41	44.93	54.48	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
271	6.30	99.73	45.13	54.60	0.96	0.011	1.38	0.008	1.00	1.00	0.008	No
272	6.32	100.05	45.32	54.73	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
273	6.34	100.37	45.52	54.85	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
274	6.36	100.69	45.71	54.98	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
275	6.38	101.01	45.91	55.10	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
276	6.40	101.34	46.11	55.23	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
277	6.42	101.66	46.30	55.36	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
278	6.44	101.99	46.50	55.49	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
279	6.46	102.31	46.70	55.62	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
280	6.48	102.64	46.89	55.75	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
281	6.50	102.96	47.09	55.88	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
282	6.52	103.29	47.28	56.01	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
283	6.54	103.62	47.48	56.14	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
284	6.56	103.95	47.68	56.27	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
285	6.58	104.28	47.87	56.40	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
286	6.60	104.60	48.07	56.53	0.95	0.011	1.38	0.008	1.00	1.00	0.008	No
287	6.62	104.93	48.27	56.66	0.95	0.011	1.38	0.008	1.00	1.00	2.000	Yes
288	6.64	105.25	48.46	56.79	0.95	0.011	1.38	0.008	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	6.66	105.57	48.66	56.91	0.95	0.011	1.38	0.008	1.00	1.00	2.000	Yes
290	6.68	105.89	48.85	57.04	0.95	0.011	1.38	0.008	1.00	1.00	2.000	Yes
291	6.70	106.22	49.05	57.17	0.95	0.011	1.38	0.008	1.00	1.00	2.000	Yes
292	6.72	106.54	49.25	57.29	0.95	0.011	1.38	0.008	1.00	1.00	2.000	Yes
293	6.74	106.86	49.44	57.42	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
294	6.76	107.17	49.64	57.54	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
295	6.78	107.49	49.83	57.65	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
296	6.80	107.80	50.03	57.77	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
297	6.82	108.11	50.23	57.88	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
298	6.84	108.42	50.42	57.99	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
299	6.86	108.72	50.62	58.10	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
300	6.88	109.03	50.82	58.21	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
301	6.90	109.33	51.01	58.32	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
302	6.92	109.64	51.21	58.43	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
303	6.94	109.95	51.40	58.54	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
304	6.96	110.25	51.60	58.65	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
305	6.98	110.56	51.80	58.76	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
306	7.00	110.86	51.99	58.87	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
307	7.02	111.17	52.19	58.98	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
308	7.04	111.47	52.39	59.08	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
309	7.06	111.77	52.58	59.19	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
310	7.08	112.08	52.78	59.30	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
311	7.10	112.38	52.97	59.41	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
312	7.12	112.69	53.17	59.51	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
313	7.14	112.99	53.37	59.62	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
314	7.16	113.30	53.56	59.74	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
315	7.18	113.61	53.76	59.85	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
316	7.20	113.93	53.96	59.97	0.95	0.012	1.38	0.008	1.00	1.00	2.000	Yes
317	7.22	114.24	54.15	60.09	0.95	0.012	1.38	0.008	1.00	1.00	0.008	No
318	7.24	114.56	54.35	60.21	0.95	0.012	1.38	0.009	1.00	1.00	0.009	No
319	7.26	114.88	54.54	60.34	0.95	0.012	1.38	0.009	1.00	1.00	0.009	No
320	7.28	115.19	54.74	60.45	0.95	0.012	1.38	0.009	1.00	1.00	0.009	No
321	7.30	115.50	54.94	60.56	0.95	0.012	1.38	0.009	1.00	1.00	0.009	No
322	7.32	115.80	55.13	60.67	0.95	0.012	1.38	0.009	1.00	1.00	0.009	No
323	7.34	116.10	55.33	60.78	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
324	7.36	116.40	55.52	60.88	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
325	7.38	116.70	55.72	60.98	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
326	7.40	116.99	55.92	61.07	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
327	7.42	117.28	56.11	61.17	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
328	7.44	117.57	56.31	61.26	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
329	7.46	117.86	56.51	61.36	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
330	7.48	118.16	56.70	61.46	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
331	7.50	118.45	56.90	61.55	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
332	7.52	118.75	57.09	61.65	0.94	0.012	1.38	0.009	1.00	1.00	2.000	Yes
333	7.54	119.04	57.29	61.75	0.94	0.012	1.38	0.009	1.00	1.00	2.000	Yes
334	7.56	119.34	57.49	61.85	0.94	0.012	1.38	0.009	1.00	1.00	2.000	Yes
335	7.58	119.63	57.68	61.95	0.94	0.012	1.38	0.009	1.00	1.00	2.000	Yes
336	7.60	119.93	57.88	62.05	0.94	0.012	1.38	0.009	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	7.62	120.23	58.08	62.16	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
338	7.64	120.54	58.27	62.27	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
339	7.66	120.84	58.47	62.38	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
340	7.68	121.15	58.66	62.49	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
341	7.70	121.47	58.86	62.61	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
342	7.72	121.79	59.06	62.73	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
343	7.74	122.11	59.25	62.86	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
344	7.76	122.43	59.45	62.98	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
345	7.78	122.75	59.64	63.10	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
346	7.80	123.06	59.84	63.22	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
347	7.82	123.37	60.04	63.33	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
348	7.84	123.69	60.23	63.45	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
349	7.86	124.02	60.43	63.59	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
350	7.88	124.36	60.63	63.74	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
351	7.90	124.71	60.82	63.89	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
352	7.92	125.06	61.02	64.04	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
353	7.94	125.42	61.21	64.20	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
354	7.96	125.77	61.41	64.36	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
355	7.98	126.12	61.61	64.52	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
356	8.00	126.47	61.80	64.66	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
357	8.02	126.81	62.00	64.81	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
358	8.04	127.15	62.20	64.95	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
359	8.06	127.49	62.39	65.10	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
360	8.08	127.83	62.59	65.25	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
361	8.10	128.18	62.78	65.40	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
362	8.12	128.53	62.98	65.55	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
363	8.14	128.89	63.18	65.71	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
364	8.16	129.24	63.37	65.87	0.94	0.012	1.38	0.009	1.00	1.00	0.009	No
365	8.18	129.60	63.57	66.03	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
366	8.20	129.96	63.77	66.19	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
367	8.22	130.32	63.96	66.35	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
368	8.24	130.68	64.16	66.52	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
369	8.26	131.04	64.35	66.69	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
370	8.28	131.40	64.55	66.85	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
371	8.30	131.77	64.75	67.03	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
372	8.32	132.14	64.94	67.20	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
373	8.34	132.51	65.14	67.38	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
374	8.36	132.89	65.33	67.55	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
375	8.38	133.25	65.53	67.72	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
376	8.40	133.62	65.73	67.90	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
377	8.42	133.99	65.92	68.07	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
378	8.44	134.37	66.12	68.25	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
379	8.46	134.74	66.32	68.42	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
380	8.48	135.11	66.51	68.59	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
381	8.50	135.47	66.71	68.77	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
382	8.52	135.84	66.90	68.94	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
383	8.54	136.21	67.10	69.11	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
384	8.56	136.58	67.30	69.28	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	8.58	136.95	67.49	69.45	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
386	8.60	137.31	67.69	69.63	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
387	8.62	137.68	67.89	69.80	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
388	8.64	138.05	68.08	69.96	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
389	8.66	138.41	68.28	70.13	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
390	8.68	138.77	68.47	70.29	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
391	8.70	139.13	68.67	70.46	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
392	8.72	139.49	68.87	70.62	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
393	8.74	139.84	69.06	70.78	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
394	8.76	140.20	69.26	70.94	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
395	8.78	140.56	69.45	71.11	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
396	8.80	140.93	69.65	71.28	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
397	8.82	141.29	69.85	71.44	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
398	8.84	141.65	70.04	71.61	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
399	8.86	142.02	70.24	71.78	0.93	0.012	1.38	0.009	1.00	1.00	0.009	No
400	8.88	142.39	70.44	71.95	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
401	8.90	142.75	70.63	72.11	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
402	8.92	143.11	70.83	72.28	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
403	8.94	143.47	71.02	72.45	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
404	8.96	143.83	71.22	72.61	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
405	8.98	144.20	71.42	72.78	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
406	9.00	144.56	71.61	72.95	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
407	9.02	144.93	71.81	73.12	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
408	9.04	145.29	72.01	73.29	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
409	9.06	145.66	72.20	73.46	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
410	9.08	146.03	72.40	73.63	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
411	9.10	146.39	72.59	73.80	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
412	9.12	146.76	72.79	73.97	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
413	9.14	147.12	72.99	74.14	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
414	9.16	147.49	73.18	74.30	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
415	9.18	147.86	73.38	74.48	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
416	9.20	148.23	73.58	74.65	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
417	9.22	148.60	73.77	74.83	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
418	9.24	148.98	73.97	75.01	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
419	9.26	149.35	74.16	75.18	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
420	9.28	149.72	74.36	75.36	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
421	9.30	150.09	74.56	75.54	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
422	9.32	150.47	74.75	75.71	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
423	9.34	150.84	74.95	75.89	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
424	9.36	151.23	75.14	76.08	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
425	9.38	151.62	75.34	76.28	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
426	9.40	152.01	75.54	76.48	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
427	9.42	152.41	75.73	76.68	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
428	9.44	152.81	75.93	76.88	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
429	9.46	153.21	76.13	77.08	0.92	0.012	1.38	0.009	1.00	1.00	0.009	No
430	9.48	153.60	76.32	77.28	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
431	9.50	153.99	76.52	77.47	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
432	9.52	154.37	76.71	77.66	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
433	9.54	154.76	76.91	77.84	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
434	9.56	155.14	77.11	78.03	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
435	9.58	155.52	77.30	78.22	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
436	9.60	155.91	77.50	78.41	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
437	9.62	156.31	77.70	78.61	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
438	9.64	156.71	77.89	78.82	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
439	9.66	157.11	78.09	79.03	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
440	9.68	157.52	78.28	79.24	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
441	9.70	157.93	78.48	79.45	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
442	9.72	158.35	78.68	79.67	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
443	9.74	158.76	78.87	79.89	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
444	9.76	159.18	79.07	80.11	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
445	9.78	159.60	79.26	80.33	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
446	9.80	160.02	79.46	80.56	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
447	9.82	160.44	79.66	80.79	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
448	9.84	160.87	79.85	81.01	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
449	9.86	161.29	80.05	81.24	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
450	9.88	161.72	80.25	81.47	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
451	9.90	162.14	80.44	81.70	0.91	0.012	1.38	0.009	1.00	1.00	0.009	No
452	9.92	162.57	80.64	81.93	0.91	0.012	1.38	0.008	1.00	1.00	0.008	No
453	9.94	163.00	80.83	82.17	0.91	0.012	1.38	0.008	1.00	1.00	0.008	No
454	9.96	163.43	81.03	82.40	0.91	0.012	1.38	0.008	1.00	1.00	0.008	No
455	9.98	163.86	81.23	82.64	0.91	0.012	1.38	0.008	1.00	1.00	0.008	No
456	10.00	164.30	81.42	82.87	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
457	10.02	164.73	81.62	83.11	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
458	10.04	165.16	81.82	83.34	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
459	10.06	165.59	82.01	83.58	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
460	10.08	166.02	82.21	83.81	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
461	10.10	166.45	82.40	84.05	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
462	10.12	166.89	82.60	84.29	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
463	10.14	167.32	82.80	84.52	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
464	10.16	167.75	82.99	84.76	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
465	10.18	168.18	83.19	84.99	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No
466	10.20	168.61	83.39	85.23	0.90	0.012	1.38	0.008	1.00	1.00	0.008	No

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	0.90	0.02	4.06	3.27	1.00	0.18	54.25	9.82	4.000	No	Yes	2.00
2	0.92	0.06	3.99	5.17	1.00	0.94	48.66	45.85	4.000	No	Yes	2.00
3	0.94	0.10	3.81	6.46	1.00	1.77	35.64	63.18	4.000	No	Yes	2.00
4	0.96	0.13	3.79	8.47	1.00	2.25	34.35	77.39	4.000	No	Yes	2.00
5	0.98	0.11	3.89	10.51	1.00	1.95	40.95	79.72	4.000	No	Yes	2.00
6	1.00	0.17	3.61	6.64	1.00	3.14	25.54	80.17	4.000	No	Yes	2.00
7	1.02	0.92	2.61	1.46	0.85	17.97	5.85	105.04	4.000	Yes	No	2.00
8	1.04	1.79	2.26	0.93	0.72	35.09	1.79	62.98	4.000	Yes	No	2.00
9	1.06	2.75	2.04	0.70	0.63	53.93	1.34	72.36	4.000	Yes	No	2.00
10	1.08	3.11	1.97	0.64	0.61	61.10	1.28	78.50	4.000	Yes	No	2.00
11	1.10	3.27	1.95	0.62	0.60	64.33	1.27	81.51	4.000	Yes	No	2.00
12	1.12	3.16	1.99	0.70	0.61	62.10	1.30	80.53	4.000	Yes	No	2.00
13	1.14	2.77	2.09	0.88	0.65	54.31	1.41	76.34	4.000	Yes	No	2.00
14	1.16	2.42	2.21	1.16	0.70	47.44	1.63	77.20	4.000	Yes	No	2.00
15	1.18	2.14	2.30	1.43	0.74	41.85	1.94	81.22	4.000	Yes	No	2.00
16	1.20	1.99	2.36	1.60	0.76	38.86	2.17	84.47	4.000	Yes	No	2.00
17	1.22	1.80	2.42	1.80	0.78	35.27	2.50	88.21	4.000	Yes	No	2.00
18	1.24	1.60	2.50	2.08	0.81	31.22	2.87	89.53	4.000	Yes	No	2.00
19	1.26	1.41	2.58	2.36	0.84	27.38	4.82	131.86	4.000	Yes	No	2.00
20	1.28	1.27	2.63	2.50	0.86	24.80	6.65	164.85	4.000	Yes	No	2.00
21	1.30	1.20	2.65	2.51	0.87	23.39	7.57	177.10	4.000	Yes	No	2.00
22	1.32	1.18	2.65	2.41	0.87	22.91	7.39	169.24	4.000	No	No	2.00
23	1.34	1.15	2.65	2.34	0.87	22.34	7.45	166.37	4.000	No	No	2.00
24	1.36	1.07	2.68	2.36	0.88	20.82	8.81	183.48	4.000	No	No	2.00
25	1.38	0.98	2.72	2.46	0.90	19.01	4.92	93.51	4.000	No	Yes	2.00
26	1.40	0.89	2.77	2.64	0.92	17.21	5.52	94.91	4.000	No	Yes	2.00
27	1.42	0.85	2.79	2.67	0.92	16.32	5.78	94.35	4.000	No	Yes	2.00
28	1.44	0.83	2.80	2.60	0.93	15.89	5.81	92.33	4.000	No	Yes	2.00
29	1.46	0.82	2.79	2.51	0.92	15.84	5.71	90.50	4.000	No	Yes	2.00
30	1.48	0.85	2.76	2.31	0.91	16.25	5.36	87.10	4.000	No	Yes	2.00
31	1.50	0.87	2.72	2.11	0.90	16.78	4.97	83.46	4.000	No	Yes	2.00
32	1.52	0.89	2.69	1.92	0.89	17.16	9.78	167.82	4.000	No	No	2.00
33	1.54	0.90	2.68	1.84	0.88	17.26	9.09	156.91	4.000	No	No	2.00
34	1.56	0.89	2.69	1.86	0.88	17.18	9.33	160.32	4.000	No	No	2.00
35	1.58	0.87	2.69	1.85	0.89	16.78	9.76	163.76	4.000	No	No	2.00
36	1.60	0.86	2.71	1.94	0.89	16.46	4.82	79.36	4.000	No	Yes	2.00
37	1.62	0.85	2.72	1.97	0.90	16.26	4.91	79.85	4.000	No	Yes	2.00
38	1.64	0.86	2.73	2.05	0.90	16.42	4.98	81.84	4.000	No	Yes	2.00
39	1.66	0.87	2.72	2.04	0.90	16.70	4.90	81.82	4.000	No	Yes	2.00
40	1.68	0.88	2.72	2.05	0.90	16.79	4.90	82.26	4.000	No	Yes	2.00
41	1.70	0.87	2.73	2.10	0.90	16.66	4.99	83.15	4.000	No	Yes	2.00
42	1.72	0.85	2.75	2.20	0.91	16.20	5.23	84.77	0.773	No	Yes	2.00
43	1.74	0.82	2.77	2.32	0.92	15.75	5.50	86.69	0.751	No	Yes	2.00
44	1.76	0.68	2.90	2.97	0.97	12.88	7.26	93.59	0.615	No	Yes	2.00
45	1.78	0.71	2.89	2.97	0.96	13.58	7.00	95.04	0.648	No	Yes	2.00
46	1.80	0.74	2.88	2.99	0.96	13.98	6.88	96.14	0.667	No	Yes	2.00
47	1.82	0.87	2.78	2.56	0.92	16.65	5.56	92.53	0.794	No	Yes	2.00
48	1.84	0.82	2.81	2.68	0.93	15.71	5.96	93.67	0.749	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	1.86	0.79	2.83	2.76	0.94	15.10	6.23	94.15	0.720	No	Yes	2.00
50	1.88	0.77	2.84	2.81	0.95	14.71	6.41	94.27	0.702	No	Yes	2.00
51	1.90	0.74	2.87	2.95	0.96	14.12	6.78	95.75	0.673	No	Yes	2.00
52	1.92	0.71	2.90	3.12	0.97	13.45	7.23	97.26	0.642	No	Yes	2.00
53	1.94	0.68	2.93	3.24	0.98	12.75	7.65	97.54	0.608	No	Yes	2.00
54	1.96	0.66	2.93	3.20	0.98	12.49	7.72	96.45	0.596	No	Yes	2.00
55	1.98	0.66	2.94	3.22	0.98	12.34	7.81	96.36	0.589	No	Yes	2.00
56	2.00	0.66	2.93	3.14	0.98	12.45	7.66	95.37	0.594	No	Yes	2.00
57	2.02	0.67	2.93	3.17	0.98	12.58	7.65	96.22	0.600	No	Yes	2.00
58	2.04	0.68	2.92	3.11	0.97	12.87	7.45	95.82	0.614	No	Yes	2.00
59	2.06	0.70	2.91	3.10	0.97	13.12	7.34	96.22	0.626	No	Yes	2.00
60	2.08	0.70	2.89	2.97	0.97	13.27	7.12	94.50	0.633	No	Yes	2.00
61	2.10	0.70	2.89	2.92	0.97	13.23	7.07	93.59	0.631	No	Yes	2.00
62	2.12	0.69	2.91	3.00	0.97	12.93	7.29	94.25	0.617	No	Yes	2.00
63	2.14	0.66	2.93	3.19	0.98	12.44	7.73	96.12	0.593	No	Yes	2.00
64	2.16	0.64	2.97	3.42	0.99	11.93	8.24	98.38	0.569	No	Yes	2.00
65	2.18	0.63	2.99	3.63	1.00	11.69	8.61	100.66	0.558	No	Yes	2.00
66	2.20	0.65	2.97	3.62	1.00	12.17	8.37	101.78	0.580	No	Yes	2.00
67	2.22	0.69	2.94	3.46	0.98	13.01	7.81	101.65	0.621	No	Yes	2.00
68	2.24	0.74	2.90	3.24	0.97	13.93	7.19	100.14	0.664	No	Yes	2.00
69	2.26	0.77	2.87	3.07	0.96	14.42	6.82	98.38	0.688	No	Yes	2.00
70	2.28	0.78	2.86	3.02	0.96	14.63	6.69	97.87	0.698	No	Yes	2.00
71	2.30	0.78	2.87	3.04	0.96	14.61	6.73	98.29	0.697	No	Yes	2.00
72	2.32	0.76	2.88	3.11	0.96	14.28	6.91	98.70	0.681	No	Yes	2.00
73	2.34	0.75	2.88	3.09	0.96	14.04	6.98	98.01	0.670	No	Yes	2.00
74	2.36	0.75	2.88	2.99	0.96	14.00	6.87	96.26	0.668	No	Yes	2.00
75	2.38	0.76	2.85	2.79	0.95	14.36	6.51	93.49	0.685	No	Yes	2.00
76	2.40	0.78	2.82	2.58	0.94	14.70	6.14	90.22	0.701	No	Yes	2.00
77	2.42	0.77	2.82	2.47	0.94	14.54	6.04	87.89	0.694	No	Yes	2.00
78	2.44	0.75	2.83	2.46	0.94	13.98	6.21	86.77	0.667	No	Yes	2.00
79	2.46	0.70	2.86	2.58	0.96	13.05	6.69	87.37	0.623	No	Yes	2.00
80	2.48	0.66	2.90	2.74	0.97	12.28	7.22	88.65	0.586	No	Yes	2.00
81	2.50	0.62	2.95	3.01	0.99	11.52	7.92	91.25	0.550	No	Yes	2.00
82	2.52	0.59	2.99	3.29	1.00	10.93	8.59	93.88	0.521	No	Yes	2.00
83	2.54	0.59	3.00	3.39	1.00	10.84	8.77	95.02	0.517	No	Yes	2.00
84	2.56	0.61	2.97	3.23	1.00	11.24	8.35	93.82	0.536	No	Yes	2.00
85	2.58	0.64	2.93	2.95	0.98	11.86	7.68	91.06	0.566	No	Yes	2.00
86	2.60	0.66	2.89	2.66	0.97	12.26	7.12	87.35	0.585	No	Yes	2.00
87	2.62	0.68	2.87	2.47	0.96	12.59	6.73	84.68	0.600	No	Yes	2.00
88	2.64	0.70	2.83	2.26	0.94	13.04	6.27	81.73	0.622	No	Yes	2.00
89	2.66	0.72	2.82	2.20	0.94	13.36	6.07	81.03	0.637	No	Yes	2.00
90	2.68	0.72	2.81	2.18	0.94	13.39	6.03	80.69	0.639	No	Yes	2.00
91	2.70	0.71	2.82	2.21	0.94	13.12	6.17	80.95	0.626	No	Yes	2.00
92	2.72	0.69	2.83	2.20	0.94	12.83	6.26	80.31	0.612	No	Yes	2.00
93	2.74	0.68	2.84	2.21	0.95	12.49	6.41	80.02	0.596	No	Yes	2.00
94	2.76	0.66	2.85	2.24	0.95	12.23	6.54	80.06	0.584	No	Yes	2.00
95	2.78	0.66	2.85	2.22	0.95	12.20	6.53	79.64	0.582	No	Yes	2.00
96	2.80	0.68	2.84	2.14	0.95	12.48	6.31	78.78	0.596	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	2.82	0.69	2.82	2.07	0.94	12.72	6.11	77.72	0.607	No	Yes	2.00
98	2.84	0.69	2.82	2.06	0.94	12.80	6.06	77.60	0.610	No	Yes	2.00
99	2.86	0.68	2.83	2.10	0.94	12.54	6.22	78.02	0.598	No	Yes	2.00
100	2.88	0.67	2.84	2.15	0.95	12.33	6.38	78.64	0.588	No	Yes	2.00
101	2.90	0.66	2.85	2.17	0.95	12.16	6.47	78.73	0.580	No	Yes	2.00
102	2.92	0.65	2.85	2.16	0.95	12.00	6.53	78.40	0.573	No	Yes	2.00
103	2.94	0.64	2.87	2.21	0.96	11.68	6.74	78.72	0.557	No	Yes	2.00
104	2.96	0.61	2.90	2.35	0.97	11.18	7.17	80.12	0.533	No	Yes	2.00
105	2.98	0.49	3.05	3.08	1.00	8.85	9.61	85.05	0.422	No	Yes	2.00
106	3.00	0.47	3.08	3.22	1.00	8.36	10.20	85.23	0.399	No	Yes	2.00
107	3.02	0.45	3.10	3.27	1.00	7.92	10.65	84.36	0.378	No	Yes	2.00
108	3.04	0.51	3.00	2.68	1.00	9.19	8.78	80.69	0.438	No	Yes	2.00
109	3.06	0.49	3.04	2.87	1.00	8.70	9.42	81.97	0.415	No	Yes	2.00
110	3.08	0.48	3.07	3.19	1.00	8.44	10.08	85.12	0.403	No	Yes	2.00
111	3.10	0.49	3.08	3.43	1.00	8.64	10.27	88.76	0.412	No	Yes	2.00
112	3.12	0.52	3.06	3.49	1.00	9.32	9.84	91.69	0.444	No	Yes	2.00
113	3.14	0.57	3.02	3.34	1.00	10.21	9.06	92.57	0.487	No	Yes	2.00
114	3.16	0.60	2.98	3.17	1.00	10.95	8.42	92.23	0.522	No	Yes	2.00
115	3.18	0.62	2.96	3.08	0.99	11.31	8.11	91.75	0.540	No	Yes	2.00
116	3.20	0.64	2.95	3.03	0.99	11.59	7.92	91.75	0.553	No	Yes	2.00
117	3.22	0.67	2.92	2.93	0.98	12.15	7.53	91.44	0.580	No	Yes	2.00
118	3.24	0.71	2.88	2.77	0.96	13.12	6.93	90.87	0.626	No	Yes	2.00
119	3.26	0.80	2.81	2.51	0.94	14.80	6.02	89.04	0.706	No	Yes	2.00
120	3.28	0.88	2.76	2.32	0.92	16.42	5.33	87.48	0.783	No	Yes	2.00
121	3.30	0.96	2.71	2.18	0.90	17.88	4.81	86.10	0.853	No	Yes	2.00
122	3.32	0.98	2.71	2.21	0.90	18.26	4.78	87.23	0.871	No	Yes	2.00
123	3.34	0.97	2.72	2.32	0.90	18.07	4.94	89.28	0.862	No	Yes	2.00
124	3.36	0.93	2.75	2.47	0.92	17.31	5.29	91.57	0.826	No	Yes	2.00
125	3.38	0.90	2.77	2.57	0.92	16.80	5.54	92.99	0.801	No	Yes	2.00
126	3.40	0.91	2.77	2.55	0.92	16.92	5.48	92.70	0.807	No	Yes	2.00
127	3.42	0.95	2.73	2.33	0.91	17.70	5.03	89.11	0.844	No	Yes	2.00
128	3.44	1.00	2.68	2.06	0.89	18.67	9.05	169.05	0.476	No	No	2.00
129	3.46	1.04	2.64	1.82	0.87	19.43	6.83	132.70	0.268	No	No	2.00
130	3.48	1.05	2.61	1.68	0.86	19.74	5.79	114.28	0.197	No	No	2.00
131	3.50	1.05	2.60	1.59	0.86	19.56	5.46	106.76	0.174	No	No	2.00
132	3.52	1.02	2.61	1.56	0.86	19.07	5.60	106.79	0.174	No	No	2.00
133	3.54	1.00	2.62	1.63	0.87	18.65	6.33	118.02	0.210	No	No	2.00
134	3.56	0.99	2.64	1.70	0.87	18.50	6.89	127.53	0.246	No	No	2.00
135	3.58	1.00	2.65	1.77	0.88	18.59	7.25	134.72	0.277	No	No	2.00
136	3.60	1.02	2.64	1.79	0.87	18.98	7.01	132.97	0.269	No	No	2.00
137	3.62	1.03	2.64	1.80	0.87	19.21	6.87	131.91	0.264	No	No	2.00
138	3.64	1.04	2.63	1.78	0.87	19.44	6.61	128.40	0.249	No	No	2.00
139	3.66	1.03	2.63	1.77	0.87	19.25	6.67	128.48	0.250	No	No	2.00
140	3.68	1.02	2.63	1.75	0.87	19.09	6.69	127.77	0.247	No	No	2.00
141	3.70	0.99	2.65	1.78	0.88	18.43	7.44	137.16	0.288	No	No	2.00
142	3.72	0.95	2.68	1.88	0.89	17.58	8.96	157.51	0.399	No	No	2.00
143	3.74	0.88	2.73	2.06	0.91	16.22	5.05	81.92	0.774	No	Yes	2.00
144	3.76	0.81	2.79	2.31	0.93	14.92	5.72	85.37	0.712	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	3.78	0.75	2.84	2.55	0.95	13.68	6.43	87.98	0.652	No	Yes	2.00
146	3.80	0.71	2.88	2.70	0.97	12.87	6.93	89.15	0.614	No	Yes	2.00
147	3.82	0.70	2.88	2.67	0.97	12.65	6.98	88.30	0.603	No	Yes	2.00
148	3.84	0.71	2.86	2.47	0.96	12.91	6.61	85.31	0.616	No	Yes	2.00
149	3.86	0.73	2.83	2.26	0.95	13.25	6.20	82.13	0.632	No	Yes	2.00
150	3.88	0.74	2.79	2.03	0.93	13.48	5.78	77.92	0.643	No	Yes	2.00
151	3.90	0.75	2.77	1.88	0.93	13.62	5.52	75.18	0.650	No	Yes	2.00
152	3.92	0.77	2.74	1.70	0.91	14.06	5.11	71.90	0.671	No	Yes	2.00
153	3.94	0.80	2.71	1.60	0.90	14.54	4.82	70.14	0.694	No	Yes	2.00
154	3.96	0.82	2.69	1.52	0.89	14.97	9.53	142.63	0.315	No	No	2.00
155	3.98	0.84	2.68	1.49	0.89	15.32	8.80	134.87	0.277	No	No	2.00
156	4.00	0.85	2.68	1.53	0.89	15.56	8.75	136.20	0.283	No	No	2.00
157	4.02	0.86	2.68	1.59	0.89	15.68	9.08	142.44	0.314	No	No	2.00
158	4.04	0.84	2.70	1.70	0.90	15.39	4.75	73.12	0.734	No	Yes	2.00
159	4.06	0.82	2.74	1.84	0.91	14.87	5.09	75.65	0.709	No	Yes	2.00
160	4.08	0.79	2.77	1.99	0.92	14.30	5.47	78.17	0.682	No	Yes	2.00
161	4.10	0.77	2.79	2.04	0.93	13.90	5.67	78.83	0.663	No	Yes	2.00
162	4.12	0.76	2.79	2.01	0.93	13.75	5.67	78.04	0.656	No	Yes	2.00
163	4.14	0.76	2.78	1.92	0.93	13.69	5.56	76.05	0.653	No	Yes	2.00
164	4.16	0.77	2.75	1.79	0.92	13.96	5.28	73.76	0.666	No	Yes	2.00
165	4.18	0.79	2.72	1.66	0.91	14.34	4.97	71.27	0.684	No	Yes	2.00
166	4.20	0.72	2.76	1.58	0.92	12.83	5.31	68.17	0.612	No	Yes	2.00
167	4.22	0.63	2.81	1.56	0.94	11.04	5.95	65.70	0.526	No	Yes	2.00
168	4.24	0.66	2.77	1.45	0.93	11.79	5.47	64.43	0.562	No	Yes	2.00
169	4.26	0.80	2.68	1.37	0.89	14.47	8.90	128.77	0.251	No	No	2.00
170	4.28	0.94	2.61	1.31	0.86	17.15	5.61	96.13	0.146	No	No	2.00
171	4.30	0.93	2.63	1.46	0.87	17.12	6.54	112.01	0.190	No	No	2.00
172	4.32	0.98	2.63	1.57	0.87	17.94	6.57	117.88	0.209	No	No	2.00
173	4.34	1.06	2.61	1.63	0.86	19.65	5.59	109.81	0.183	No	No	2.00
174	4.36	1.17	2.56	1.55	0.85	21.69	4.11	89.14	0.146	No	No	2.00
175	4.38	1.20	2.56	1.60	0.84	22.28	4.07	90.64	0.149	No	No	2.00
176	4.40	1.18	2.58	1.74	0.85	21.96	4.81	105.58	0.189	No	No	2.00
177	4.42	1.15	2.62	1.94	0.87	21.30	6.11	130.23	0.257	No	No	2.00
178	4.44	1.13	2.65	2.11	0.88	20.91	7.32	153.12	0.372	No	No	2.00
179	4.46	1.10	2.68	2.34	0.89	20.26	9.21	186.57	0.616	No	No	2.00
180	4.48	1.06	2.72	2.62	0.91	19.60	4.97	97.50	0.935	No	Yes	2.00
181	4.50	1.03	2.76	2.90	0.92	18.93	5.42	102.50	0.903	No	Yes	2.00
182	4.52	1.01	2.78	3.00	0.93	18.56	5.60	103.92	0.885	No	Yes	2.00
183	4.54	1.02	2.76	2.84	0.92	18.72	5.40	101.02	0.893	No	Yes	2.00
184	4.56	1.06	2.73	2.61	0.91	19.43	4.99	97.06	0.927	No	Yes	2.00
185	4.58	1.11	2.68	2.34	0.89	20.57	8.93	183.65	0.590	No	No	2.00
186	4.60	1.15	2.66	2.23	0.88	21.20	7.73	163.82	0.440	No	No	2.00
187	4.62	1.16	2.64	2.14	0.88	21.49	7.03	150.97	0.360	No	No	2.00
188	4.64	1.13	2.66	2.23	0.89	20.90	7.97	166.44	0.458	No	No	2.00
189	4.66	1.09	2.69	2.38	0.90	20.01	9.74	194.88	0.691	No	No	2.00
190	4.68	1.03	2.73	2.57	0.91	18.91	5.06	95.62	0.902	No	Yes	2.00
191	4.70	0.98	2.76	2.70	0.93	17.94	5.42	97.20	0.856	No	Yes	2.00
192	4.72	0.93	2.79	2.79	0.94	16.98	5.75	97.65	0.810	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	4.74	0.90	2.80	2.77	0.94	16.29	5.90	96.10	0.777	No	Yes	2.00
194	4.76	0.88	2.80	2.66	0.94	15.91	5.87	93.41	4.000	Yes	Yes	2.00
195	4.78	0.88	2.78	2.42	0.93	15.86	5.60	88.82	4.000	Yes	Yes	2.00
196	4.80	0.89	2.74	2.10	0.92	16.07	5.14	82.60	4.000	Yes	Yes	2.00
197	4.82	0.91	2.70	1.82	0.90	16.44	9.97	163.93	4.000	Yes	No	2.00
198	4.84	0.94	2.65	1.58	0.88	17.11	7.38	126.36	4.000	Yes	No	2.00
199	4.86	0.98	2.62	1.46	0.87	17.85	5.97	106.58	4.000	Yes	No	2.00
200	4.88	1.06	2.57	1.36	0.85	19.09	4.59	87.65	4.000	Yes	No	2.00
201	4.90	1.13	2.54	1.27	0.84	20.19	3.61	72.89	4.000	Yes	No	2.00
202	4.92	1.18	2.52	1.28	0.84	21.00	3.31	69.51	4.000	Yes	No	2.00
203	4.94	1.17	2.55	1.41	0.84	20.93	3.88	81.14	4.000	Yes	No	2.00
204	4.96	1.14	2.59	1.64	0.86	20.56	5.07	104.26	4.000	Yes	No	2.00
205	4.98	1.14	2.61	1.80	0.87	20.61	5.85	120.54	4.000	Yes	No	2.00
206	5.00	1.13	2.63	1.96	0.88	20.59	6.71	138.20	4.000	Yes	No	2.00
207	5.02	1.11	2.67	2.20	0.89	20.28	8.35	169.31	4.000	Yes	No	2.00
208	5.04	1.05	2.76	2.87	0.92	19.10	5.35	102.19	4.000	Yes	Yes	2.00
209	5.06	0.99	2.84	3.62	0.96	18.03	6.36	114.75	4.000	Yes	Yes	2.00
210	5.08	0.95	2.90	4.32	0.98	17.20	7.27	125.09	4.000	Yes	Yes	2.00
211	5.10	0.92	2.94	4.62	0.99	16.53	7.76	128.21	4.000	Yes	Yes	2.00
212	5.12	0.89	2.96	4.76	1.00	15.96	8.07	128.75	0.761	No	Yes	2.00
213	5.14	0.87	2.96	4.72	1.00	15.57	8.16	127.00	0.743	No	Yes	2.00
214	5.16	0.84	2.95	4.37	1.00	15.02	8.01	120.39	0.716	No	Yes	2.00
215	5.18	0.81	2.94	3.94	0.99	14.46	7.78	112.45	0.690	No	Yes	2.00
216	5.20	0.85	2.87	3.23	0.97	15.09	6.79	102.40	0.720	No	Yes	2.00
217	5.22	0.94	2.79	2.71	0.94	16.85	5.68	95.75	0.804	No	Yes	2.00
218	5.24	1.09	2.69	2.23	0.90	19.45	9.33	181.51	0.573	No	No	2.00
219	5.26	1.19	2.65	2.18	0.88	21.09	7.56	159.43	0.411	No	No	2.00
220	5.28	1.22	2.67	2.42	0.89	21.58	8.47	182.87	0.584	No	No	2.00
221	5.30	1.15	2.74	2.91	0.92	20.64	5.09	105.02	0.984	No	Yes	2.00
222	5.32	1.02	2.82	3.42	0.95	18.43	6.07	111.85	0.879	No	Yes	2.00
223	5.34	0.89	2.90	3.92	0.98	15.94	7.25	115.59	0.760	No	Yes	2.00
224	5.36	0.75	3.02	4.76	1.00	13.17	9.15	120.43	0.628	No	Yes	2.00
225	5.38	0.64	3.15	6.16	1.00	10.96	11.71	128.32	0.523	No	Yes	2.00
226	5.40	0.56	3.27	7.66	1.00	9.37	14.32	134.18	0.447	No	Yes	2.00
227	5.42	0.43	3.43	9.50	1.00	6.84	19.02	130.07	0.326	No	Yes	2.00
228	5.44	0.39	3.45	8.67	1.00	6.04	19.56	118.13	0.288	No	Yes	2.00
229	5.46	0.36	3.43	7.08	1.00	5.39	19.07	102.76	0.257	No	Yes	2.00
230	5.48	0.42	3.27	4.85	1.00	6.52	14.38	93.71	0.311	No	Yes	2.00
231	5.50	0.43	3.22	4.17	1.00	6.67	13.26	88.47	0.318	No	Yes	2.00
232	5.52	0.42	3.21	3.87	1.00	6.53	13.01	84.94	0.311	No	Yes	2.00
233	5.54	0.40	3.24	3.92	1.00	6.17	13.56	83.72	0.295	No	Yes	2.00
234	5.56	0.38	3.28	4.26	1.00	5.75	14.69	84.47	0.274	No	Yes	2.00
235	5.58	0.36	3.33	4.68	1.00	5.37	15.96	85.71	0.256	No	Yes	2.00
236	5.60	0.34	3.37	5.03	1.00	5.02	17.14	86.12	0.240	No	Yes	2.00
237	5.62	0.33	3.40	5.14	1.00	4.72	17.97	84.85	0.225	No	Yes	2.00
238	5.64	0.32	3.40	4.78	1.00	4.50	17.97	80.77	0.214	No	Yes	2.00
239	5.66	0.31	3.38	4.24	1.00	4.35	17.45	75.91	0.208	No	Yes	2.00
240	5.68	0.31	3.35	3.62	1.00	4.25	16.61	70.66	0.203	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	5.70	0.31	3.33	3.22	1.00	4.25	15.87	67.43	0.203	No	Yes	2.00
242	5.72	0.32	3.26	2.74	1.00	4.54	14.28	64.90	0.217	No	Yes	2.00
243	5.74	0.35	3.18	2.32	1.00	5.16	12.31	63.48	0.246	No	Yes	2.00
244	5.76	0.41	3.08	2.03	1.00	6.16	10.31	63.54	0.294	No	Yes	2.00
245	5.78	0.48	2.98	1.76	1.00	7.56	8.40	63.51	0.360	No	Yes	2.00
246	5.80	0.57	2.88	1.59	0.97	9.14	6.98	63.77	0.436	No	Yes	2.00
247	5.82	0.67	2.81	1.52	0.95	10.88	5.95	64.75	0.519	No	Yes	2.00
248	5.84	0.76	2.77	1.55	0.93	12.24	5.47	67.00	0.584	No	Yes	2.00
249	5.86	0.81	2.75	1.61	0.92	13.19	5.25	69.21	0.629	No	Yes	2.00
250	5.88	0.84	2.75	1.71	0.92	13.63	5.26	71.69	0.650	No	Yes	2.00
251	5.90	0.85	2.76	1.79	0.93	13.86	5.32	73.70	0.661	No	Yes	2.00
252	5.92	0.85	2.77	1.93	0.93	13.92	5.51	76.64	0.664	No	Yes	2.00
253	5.94	0.86	2.78	2.04	0.94	13.95	5.65	78.81	0.665	No	Yes	2.00
254	5.96	0.86	2.79	2.14	0.94	13.96	5.78	80.71	0.666	No	Yes	2.00
255	5.98	0.86	2.79	2.13	0.94	14.02	5.75	80.57	0.669	No	Yes	2.00
256	6.00	0.86	2.80	2.15	0.94	13.97	5.79	80.93	0.666	No	Yes	2.00
257	6.02	0.85	2.80	2.15	0.94	13.81	5.85	80.81	0.659	No	Yes	2.00
258	6.04	0.85	2.80	2.11	0.94	13.73	5.82	79.91	0.655	No	Yes	2.00
259	6.06	0.86	2.78	1.95	0.93	13.83	5.56	76.85	0.660	No	Yes	2.00
260	6.08	0.89	2.74	1.76	0.92	14.24	5.16	73.41	0.679	No	Yes	2.00
261	6.10	0.92	2.72	1.65	0.91	14.61	4.88	71.27	0.697	No	Yes	2.00
262	6.12	0.94	2.71	1.62	0.91	14.85	4.77	70.82	0.708	No	Yes	2.00
263	6.14	0.94	2.72	1.70	0.91	14.90	4.88	72.67	0.711	No	Yes	2.00
264	6.16	0.93	2.74	1.83	0.92	14.67	5.13	75.32	0.700	No	Yes	2.00
265	6.18	0.92	2.76	1.96	0.93	14.64	5.33	78.06	0.698	No	Yes	2.00
266	6.20	0.94	2.75	1.98	0.93	14.87	5.29	78.72	0.709	No	Yes	2.00
267	6.22	0.99	2.73	1.89	0.92	15.57	4.98	77.47	0.742	No	Yes	2.00
268	6.24	1.01	2.70	1.79	0.91	15.91	4.75	75.57	0.759	No	Yes	2.00
269	6.26	1.01	2.70	1.71	0.90	15.78	9.96	157.20	0.397	No	No	2.00
270	6.28	0.98	2.70	1.67	0.91	15.31	4.73	72.38	0.730	No	Yes	2.00
271	6.30	0.96	2.70	1.62	0.91	14.96	4.74	70.99	0.714	No	Yes	2.00
272	6.32	0.95	2.71	1.65	0.91	14.72	4.85	71.37	0.702	No	Yes	2.00
273	6.34	0.94	2.73	1.74	0.92	14.49	5.06	73.29	0.691	No	Yes	2.00
274	6.36	0.92	2.76	1.91	0.93	14.19	5.38	76.41	0.677	No	Yes	2.00
275	6.38	0.90	2.78	2.02	0.94	14.00	5.60	78.38	0.668	No	Yes	2.00
276	6.40	0.90	2.79	2.10	0.94	13.93	5.74	79.92	0.665	No	Yes	2.00
277	6.42	0.91	2.79	2.09	0.94	14.04	5.69	79.94	0.670	No	Yes	2.00
278	6.44	0.93	2.78	2.07	0.94	14.33	5.58	79.93	0.684	No	Yes	2.00
279	6.46	0.96	2.76	2.00	0.93	14.74	5.36	79.00	0.703	No	Yes	2.00
280	6.48	0.99	2.74	1.95	0.92	15.22	5.15	78.43	0.726	No	Yes	2.00
281	6.50	1.08	2.69	1.81	0.90	16.47	9.86	162.33	0.430	No	No	2.00
282	6.52	1.16	2.65	1.72	0.89	17.74	7.67	136.16	0.283	No	No	2.00
283	6.54	1.24	2.62	1.62	0.88	18.74	6.22	116.62	0.205	No	No	2.00
284	6.56	1.21	2.64	1.67	0.88	18.27	6.88	125.79	0.239	No	No	2.00
285	6.58	1.13	2.69	1.86	0.90	17.20	9.28	159.70	0.413	No	No	2.00
286	6.60	1.06	2.72	1.95	0.91	16.12	4.92	79.26	0.769	No	Yes	2.00
287	6.62	1.05	2.71	1.85	0.91	15.90	4.83	76.85	4.000	Yes	Yes	2.00
288	6.64	1.15	2.61	1.32	0.87	17.06	5.72	97.56	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	6.66	1.23	2.55	1.15	0.85	18.14	4.03	73.17	4.000	Yes	No	2.00
290	6.68	1.29	2.53	1.11	0.84	18.96	3.43	65.10	4.000	Yes	No	2.00
291	6.70	1.27	2.57	1.29	0.86	18.70	4.46	83.31	4.000	Yes	No	2.00
292	6.72	1.18	2.61	1.37	0.87	17.39	5.78	100.58	4.000	Yes	No	2.00
293	6.74	1.06	2.65	1.40	0.89	15.63	7.66	119.75	4.000	Yes	No	2.00
294	6.76	0.95	2.69	1.37	0.90	13.94	9.68	134.93	4.000	Yes	No	2.00
295	6.78	0.93	2.69	1.26	0.90	13.55	9.33	126.43	0.241	No	No	2.00
296	6.80	0.93	2.67	1.17	0.90	13.47	8.52	114.77	0.199	No	No	2.00
297	6.82	0.93	2.66	1.08	0.89	13.35	7.82	104.40	0.167	No	No	2.00
298	6.84	0.93	2.64	0.98	0.88	13.32	6.98	92.89	4.000	Yes	No	2.00
299	6.86	0.95	2.61	0.89	0.87	13.56	5.93	80.37	4.000	Yes	No	2.00
300	6.88	1.01	2.58	0.83	0.86	14.27	4.76	67.88	4.000	Yes	No	2.00
301	6.90	1.07	2.55	0.77	0.85	15.09	3.79	57.13	4.000	Yes	No	2.00
302	6.92	1.13	2.51	0.72	0.83	16.01	2.98	47.76	4.000	Yes	No	2.00
303	6.94	1.17	2.49	0.69	0.83	16.53	2.89	47.80	4.000	Yes	No	2.00
304	6.96	1.19	2.47	0.65	0.82	16.70	2.80	46.81	0.089	No	No	2.00
305	6.98	1.16	2.48	0.63	0.82	16.28	2.83	46.05	4.000	Yes	No	2.00
306	7.00	1.11	2.50	0.66	0.83	15.57	2.86	44.52	4.000	Yes	No	2.00
307	7.02	1.04	2.55	0.73	0.85	14.53	3.90	56.64	4.000	Yes	No	2.00
308	7.04	0.98	2.59	0.80	0.87	13.71	5.05	69.18	4.000	Yes	No	2.00
309	7.06	0.96	2.60	0.82	0.87	13.44	5.44	73.16	0.105	No	No	2.00
310	7.08	0.99	2.58	0.77	0.86	13.79	4.74	65.35	0.106	No	No	2.00
311	7.10	1.03	2.55	0.72	0.85	14.25	4.02	57.33	0.098	No	No	2.00
312	7.12	1.04	2.55	0.73	0.85	14.38	3.98	57.22	4.000	Yes	No	2.00
313	7.14	1.02	2.59	0.83	0.86	14.09	4.93	69.51	4.000	Yes	No	2.00
314	7.16	0.98	2.64	1.00	0.88	13.59	6.78	92.15	4.000	Yes	No	2.00
315	7.18	0.96	2.67	1.14	0.90	13.42	8.35	112.07	4.000	Yes	No	2.00
316	7.20	0.97	2.69	1.29	0.91	13.53	9.61	130.06	4.000	Yes	No	2.00
317	7.22	0.98	2.70	1.40	0.91	13.68	4.75	65.03	0.652	No	Yes	2.00
318	7.24	0.95	2.74	1.55	0.92	13.37	5.10	68.16	0.638	No	Yes	2.00
319	7.26	0.90	2.76	1.56	0.93	12.58	5.36	67.49	0.600	No	Yes	2.00
320	7.28	0.83	2.78	1.50	0.94	11.53	5.65	65.21	0.550	No	Yes	2.00
321	7.30	0.78	2.79	1.31	0.94	10.59	5.70	60.31	0.505	No	Yes	2.00
322	7.32	0.73	2.79	1.20	0.94	9.92	5.78	57.32	0.473	No	Yes	2.00
323	7.34	0.71	2.79	1.11	0.94	9.52	5.78	55.03	0.454	No	Yes	2.00
324	7.36	0.69	2.80	1.04	0.95	9.16	5.80	53.12	0.437	No	Yes	2.00
325	7.38	0.68	2.79	0.95	0.94	8.90	5.74	51.04	0.425	No	Yes	2.00
326	7.40	0.67	2.78	0.87	0.94	8.78	5.60	49.18	0.419	No	Yes	2.00
327	7.42	0.67	2.77	0.83	0.94	8.75	5.51	48.22	0.417	No	Yes	2.00
328	7.44	0.67	2.76	0.80	0.93	8.77	5.43	47.60	0.418	No	Yes	2.00
329	7.46	0.68	2.77	0.83	0.94	8.86	5.46	48.42	0.423	No	Yes	2.00
330	7.48	0.69	2.77	0.85	0.93	9.00	5.45	49.00	0.429	No	Yes	2.00
331	7.50	0.69	2.77	0.87	0.94	9.03	5.47	49.45	0.431	No	Yes	2.00
332	7.52	0.70	2.76	0.87	0.93	9.12	5.42	49.41	4.000	Yes	Yes	2.00
333	7.54	0.79	2.69	0.74	0.90	10.37	9.28	96.22	4.000	Yes	No	2.00
334	7.56	1.01	2.53	0.53	0.84	13.39	3.36	44.95	4.000	Yes	No	2.00
335	7.58	1.30	2.38	0.39	0.79	17.20	2.26	38.79	4.000	Yes	No	2.00
336	7.60	1.51	2.30	0.35	0.76	19.91	1.00	19.91	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	7.62	1.58	2.29	0.37	0.75	20.76	1.00	20.76	0.067	No	No	2.00
338	7.64	1.70	2.25	0.35	0.74	22.39	1.00	22.39	0.069	No	No	2.00
339	7.66	1.94	2.19	0.32	0.72	25.37	1.00	25.37	0.071	No	No	2.00
340	7.68	2.29	2.12	0.32	0.69	29.86	1.00	29.86	0.075	No	No	2.00
341	7.70	2.63	2.07	0.33	0.67	34.23	1.00	34.23	0.079	No	No	2.00
342	7.72	2.99	2.03	0.34	0.65	38.67	1.00	38.67	0.082	No	No	2.00
343	7.74	3.28	1.98	0.32	0.64	42.19	1.00	42.19	0.085	No	No	2.00
344	7.76	3.35	1.96	0.29	0.63	42.98	1.00	42.98	0.086	No	No	2.00
345	7.78	3.19	1.96	0.25	0.63	40.69	1.00	40.69	0.084	No	No	2.00
346	7.80	2.85	2.00	0.23	0.64	36.48	1.00	36.48	0.080	No	No	2.00
347	7.82	2.52	2.07	0.27	0.67	32.39	1.00	32.39	0.077	No	No	2.00
348	7.84	2.27	2.18	0.43	0.71	29.50	1.00	29.50	0.075	No	No	2.00
349	7.86	2.18	2.33	0.93	0.77	29.06	2.05	59.62	0.100	No	No	2.00
350	7.88	2.59	2.30	1.08	0.76	34.65	1.93	66.75	0.108	No	No	2.00
351	7.90	3.60	2.15	0.94	0.70	47.36	1.51	71.67	0.114	No	No	2.00
352	7.92	5.00	1.96	0.66	0.63	64.18	1.28	81.93	0.131	No	No	2.00
353	7.94	6.26	1.84	0.53	0.58	78.89	1.19	93.84	0.157	No	No	2.00
354	7.96	7.12	1.75	0.44	0.55	88.58	1.00	88.58	0.145	No	No	2.00
355	7.98	7.59	1.69	0.36	0.53	93.43	1.00	93.43	0.156	No	No	2.00
356	8.00	7.79	1.63	0.27	0.50	94.83	1.00	94.83	0.159	No	No	2.00
357	8.02	7.81	1.60	0.23	0.49	94.43	1.00	94.43	0.158	No	No	2.00
358	8.04	7.79	1.59	0.21	0.49	93.98	1.00	93.98	0.157	No	No	2.00
359	8.06	7.85	1.60	0.23	0.49	94.82	1.00	94.82	0.159	No	No	2.00
360	8.08	8.23	1.59	0.24	0.49	99.15	1.00	99.15	0.171	No	No	2.00
361	8.10	8.97	1.56	0.24	0.48	107.40	1.00	107.40	0.195	No	No	2.00
362	8.12	10.06	1.52	0.25	0.46	119.80	1.00	119.80	0.240	No	No	2.00
363	8.14	11.30	1.47	0.24	0.44	133.53	1.00	133.53	0.301	No	No	2.00
364	8.16	12.32	1.43	0.23	0.43	144.66	1.00	144.66	0.362	No	No	2.00
365	8.18	12.87	1.41	0.22	0.42	150.52	1.00	150.52	0.397	No	No	2.00
366	8.20	13.00	1.42	0.24	0.42	152.02	1.00	152.02	0.407	No	No	2.00
367	8.22	13.03	1.43	0.25	0.43	152.64	1.00	152.64	0.411	No	No	2.00
368	8.24	13.23	1.43	0.26	0.43	154.80	1.00	154.80	0.425	No	No	2.00
369	8.26	13.81	1.42	0.27	0.42	161.27	1.00	161.27	0.470	No	No	2.00
370	8.28	14.43	1.42	0.29	0.42	168.24	1.00	168.24	0.523	No	No	2.00
371	8.30	14.98	1.42	0.31	0.42	174.51	1.00	174.51	0.574	No	No	2.00
372	8.32	15.10	1.43	0.33	0.43	176.20	1.00	176.20	0.589	No	No	2.00
373	8.34	15.15	1.44	0.34	0.43	176.64	1.00	176.64	0.593	No	No	2.00
374	8.36	15.17	1.43	0.33	0.43	176.52	1.00	176.52	0.592	No	No	2.00
375	8.38	15.28	1.41	0.31	0.42	177.25	1.00	177.25	0.598	No	No	2.00
376	8.40	15.36	1.42	0.32	0.42	178.01	1.00	178.01	0.605	No	No	2.00
377	8.42	15.47	1.41	0.31	0.42	178.95	1.00	178.95	0.613	No	No	2.00
378	8.44	15.48	1.42	0.33	0.43	179.20	1.00	179.20	0.615	No	No	2.00
379	8.46	15.58	1.41	0.31	0.42	179.88	1.00	179.88	0.621	No	No	2.00
380	8.48	15.53	1.41	0.31	0.42	179.09	1.00	179.09	0.614	No	No	2.00
381	8.50	15.52	1.40	0.30	0.42	178.56	1.00	178.56	0.609	No	No	2.00
382	8.52	15.46	1.40	0.30	0.42	177.72	1.00	177.72	0.602	No	No	2.00
383	8.54	15.45	1.40	0.29	0.42	177.38	1.00	177.38	0.599	No	No	2.00
384	8.56	15.37	1.39	0.28	0.41	176.05	1.00	176.05	0.587	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	8.58	14.97	1.41	0.29	0.42	171.64	1.00	171.64	0.550	No	No	2.00
386	8.60	14.11	1.47	0.34	0.44	162.84	1.00	162.84	0.482	No	No	2.00
387	8.62	13.10	1.50	0.35	0.46	151.63	1.00	151.63	0.404	No	No	2.00
388	8.64	12.29	1.52	0.34	0.46	142.29	1.00	142.29	0.348	No	No	2.00
389	8.66	11.90	1.50	0.30	0.46	137.35	1.00	137.35	0.321	No	No	2.00
390	8.68	11.77	1.51	0.31	0.46	135.87	1.00	135.87	0.313	No	No	2.00
391	8.70	11.65	1.51	0.30	0.46	134.28	1.00	134.28	0.305	No	No	2.00
392	8.72	11.52	1.50	0.27	0.46	132.43	1.00	132.43	0.296	No	No	2.00
393	8.74	11.34	1.50	0.26	0.46	130.14	1.00	130.14	0.285	No	No	2.00
394	8.76	11.20	1.54	0.31	0.47	129.06	1.00	129.06	0.280	No	No	2.00
395	8.78	11.30	1.56	0.35	0.48	130.51	1.00	130.51	0.287	No	No	2.00
396	8.80	11.64	1.54	0.34	0.47	133.93	1.00	133.93	0.303	No	No	2.00
397	8.82	11.86	1.52	0.32	0.46	136.09	1.00	136.09	0.314	No	No	2.00
398	8.84	11.53	1.56	0.38	0.48	132.82	1.00	132.82	0.298	No	No	2.00
399	8.86	11.05	1.60	0.42	0.50	127.72	1.00	127.72	0.274	No	No	2.00
400	8.88	10.50	1.62	0.43	0.50	121.49	1.00	121.49	0.247	No	No	2.00
401	8.90	10.24	1.61	0.37	0.50	118.05	1.00	118.05	0.233	No	No	2.00
402	8.92	9.98	1.63	0.40	0.51	115.26	1.00	115.26	0.222	No	No	2.00
403	8.94	10.15	1.63	0.41	0.51	117.05	1.00	117.05	0.229	No	No	2.00
404	8.96	10.89	1.59	0.38	0.49	124.93	1.00	124.93	0.261	No	No	2.00
405	8.98	12.03	1.53	0.34	0.47	137.00	1.00	137.00	0.319	No	No	2.00
406	9.00	13.76	1.44	0.28	0.44	155.07	1.00	155.07	0.427	No	No	2.00
407	9.02	16.23	1.36	0.24	0.40	180.99	1.00	180.99	0.631	No	No	2.00
408	9.04	18.50	1.28	0.21	0.37	204.49	1.00	204.49	4.000	No	No	2.00
409	9.06	20.03	1.24	0.20	0.36	220.34	1.00	220.34	4.000	No	No	2.00
410	9.08	19.12	1.25	0.19	0.36	210.30	1.00	210.30	4.000	No	No	2.00
411	9.10	18.25	1.29	0.21	0.38	201.28	1.00	201.28	4.000	No	No	2.00
412	9.12	16.79	1.33	0.23	0.39	185.92	1.00	185.92	0.678	No	No	2.00
413	9.14	16.40	1.36	0.25	0.40	181.97	1.00	181.97	0.640	No	No	2.00
414	9.16	15.55	1.37	0.24	0.41	172.48	1.00	172.48	0.557	No	No	2.00
415	9.18	14.84	1.45	0.32	0.44	165.91	1.00	165.91	0.505	No	No	2.00
416	9.20	14.13	1.51	0.40	0.46	158.91	1.00	158.91	0.453	No	No	2.00
417	9.22	13.42	1.57	0.47	0.48	151.67	1.00	151.67	0.404	No	No	2.00
418	9.24	12.84	1.58	0.45	0.49	145.03	1.00	145.03	0.364	No	No	2.00
419	9.26	12.43	1.59	0.46	0.49	140.45	1.00	140.45	0.338	No	No	2.00
420	9.28	11.92	1.63	0.51	0.51	134.96	1.00	134.96	0.309	No	No	2.00
421	9.30	10.91	1.68	0.56	0.53	123.97	1.00	123.97	0.257	No	No	2.00
422	9.32	10.34	1.72	0.60	0.54	117.76	1.03	120.91	0.244	No	No	2.00
423	9.34	11.17	1.72	0.66	0.54	127.20	1.02	130.21	0.285	No	No	2.00
424	9.36	12.83	1.71	0.76	0.54	145.97	1.00	145.97	0.369	No	No	2.00
425	9.38	14.02	1.73	0.91	0.55	159.84	1.05	168.11	0.522	No	No	2.00
426	9.40	14.18	1.77	1.05	0.56	162.16	1.11	180.29	0.625	No	No	2.00
427	9.42	14.13	1.81	1.19	0.58	161.99	1.16	188.25	0.700	No	No	2.00
428	9.44	14.28	1.80	1.16	0.57	163.32	1.15	187.81	0.696	No	No	2.00
429	9.46	14.36	1.78	1.10	0.57	163.70	1.13	184.77	0.667	No	No	2.00
430	9.48	14.14	1.75	0.96	0.55	160.34	1.08	172.85	0.560	No	No	2.00
431	9.50	13.30	1.75	0.93	0.56	150.68	1.09	164.58	0.495	No	No	2.00
432	9.52	12.10	1.76	0.85	0.56	136.78	1.10	150.37	0.396	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
433	9.54	10.83	1.80	0.86	0.57	122.60	1.16	141.61	0.344	No	No	2.00
434	9.56	9.53	1.88	0.98	0.60	108.38	1.22	132.42	0.296	No	No	2.00
435	9.58	8.30	2.03	1.42	0.66	95.42	1.33	126.99	0.270	No	No	2.00
436	9.60	7.78	2.14	1.95	0.70	90.08	1.48	133.62	0.302	No	No	2.00
437	9.62	8.19	2.18	2.32	0.72	95.19	1.56	148.33	0.383	No	No	2.00
438	9.64	9.25	2.15	2.37	0.71	107.22	1.50	160.83	0.467	No	No	2.00
439	9.66	10.34	2.12	2.39	0.70	119.52	1.45	173.22	0.563	No	No	2.00
440	9.68	11.45	2.10	2.42	0.69	132.03	1.41	186.56	0.684	No	No	2.00
441	9.70	12.68	2.08	2.47	0.68	145.80	1.39	202.02	4.000	No	No	2.00
442	9.72	13.80	2.05	2.47	0.67	158.26	1.36	215.00	4.000	No	No	2.00
443	9.74	14.67	2.04	2.50	0.67	167.84	1.35	225.81	4.000	No	No	2.00
444	9.76	15.22	2.05	2.62	0.67	173.97	1.35	235.31	4.000	No	No	2.00
445	9.78	15.64	2.06	2.73	0.67	178.66	1.36	243.32	4.000	No	No	2.00
446	9.80	15.75	2.07	2.87	0.68	179.75	1.38	248.18	4.000	No	No	2.00
447	9.82	15.74	2.08	2.96	0.68	179.47	1.39	250.25	4.000	No	No	2.00
448	9.84	15.88	2.09	3.02	0.69	180.83	1.40	253.49	4.000	No	No	2.00
449	9.86	16.25	2.09	3.10	0.69	184.79	1.41	260.20	4.000	No	No	2.00
450	9.88	16.88	2.09	3.16	0.69	191.60	1.40	269.15	4.000	No	No	2.00
451	9.90	17.63	2.08	3.19	0.68	199.78	1.40	278.80	4.000	No	No	2.00
452	9.92	19.12	2.05	3.05	0.67	215.70	1.35	291.92	4.000	No	No	2.00
453	9.94	20.71	2.01	2.90	0.66	232.78	1.32	306.70	4.000	No	No	2.00
454	9.96	22.15	1.98	2.80	0.65	248.06	1.29	321.10	4.000	No	No	2.00
455	9.98	22.73	1.98	2.85	0.65	254.05	1.29	328.91	4.000	No	No	2.00
456	10.00	22.64	2.00	2.97	0.65	252.94	1.31	330.73	4.000	No	No	2.00
457	10.02	22.48	2.02	3.08	0.66	250.93	1.32	331.49	4.000	No	No	2.00
458	10.04	21.43	2.05	3.31	0.67	239.37	1.36	325.42	4.000	No	No	2.00
459	10.06	21.75	2.05	3.35	0.67	242.55	1.36	329.84	4.000	No	No	2.00
460	10.08	22.11	2.06	3.42	0.68	246.16	1.37	336.17	4.000	No	No	2.00
461	10.10	23.35	2.04	3.34	0.67	259.28	1.34	348.23	4.000	No	No	2.00
462	10.12	23.58	2.04	3.40	0.67	261.42	1.35	352.46	4.000	No	No	2.00
463	10.14	23.82	2.04	3.43	0.67	263.59	1.35	355.62	4.000	No	No	2.00
464	10.16	24.06	2.05	3.46	0.67	265.84	1.35	359.10	4.000	No	No	2.00
465	10.18	24.17	2.05	3.50	0.67	266.62	1.36	361.33	4.000	No	No	2.00
466	10.20	24.20	2.05	3.53	0.67	266.55	1.36	362.23	4.000	No	No	2.00

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
0.90	2.00	0.00	0.00	0.02	0.00	0.92	2.00	0.00	0.00	0.02	0.00
0.94	2.00	0.00	0.00	0.02	0.00	0.96	2.00	0.00	0.00	0.02	0.00
0.98	2.00	0.00	0.00	0.02	0.00	1.00	2.00	0.00	0.00	0.02	0.00
1.02	2.00	0.00	0.00	0.02	0.00	1.04	2.00	0.00	0.00	0.02	0.00
1.06	2.00	0.00	0.00	0.02	0.00	1.08	2.00	0.00	0.00	0.02	0.00
1.10	2.00	0.00	0.00	0.02	0.00	1.12	2.00	0.00	0.00	0.02	0.00
1.14	2.00	0.00	0.00	0.02	0.00	1.16	2.00	0.00	0.00	0.02	0.00
1.18	2.00	0.00	0.00	0.02	0.00	1.20	2.00	0.00	0.00	0.02	0.00
1.22	2.00	0.00	0.00	0.02	0.00	1.24	2.00	0.00	0.00	0.02	0.00
1.26	2.00	0.00	0.00	0.02	0.00	1.28	2.00	0.00	0.00	0.02	0.00
1.30	2.00	0.00	0.00	0.02	0.00	1.32	2.00	0.00	0.00	0.02	0.00
1.34	2.00	0.00	0.00	0.02	0.00	1.36	2.00	0.00	0.00	0.02	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.42	2.00	0.00	0.00	0.02	0.00	1.44	2.00	0.00	0.00	0.02	0.00
1.46	2.00	0.00	0.00	0.02	0.00	1.48	2.00	0.00	0.00	0.02	0.00
1.50	2.00	0.00	0.00	0.02	0.00	1.52	2.00	0.00	0.00	0.02	0.00
1.54	2.00	0.00	0.00	0.02	0.00	1.56	2.00	0.00	0.00	0.02	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.02	0.00
1.62	2.00	0.00	0.00	0.02	0.00	1.64	2.00	0.00	0.00	0.02	0.00
1.66	2.00	0.00	0.00	0.02	0.00	1.68	2.00	0.00	0.00	0.02	0.00
1.70	2.00	0.00	0.00	0.02	0.00	1.72	2.00	0.00	0.00	0.02	0.00
1.74	2.00	0.00	0.00	0.02	0.00	1.76	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.02	0.00
1.82	2.00	0.00	0.00	0.02	0.00	1.84	2.00	0.00	0.00	0.02	0.00
1.86	2.00	0.00	0.00	0.02	0.00	1.88	2.00	0.00	0.00	0.02	0.00
1.90	2.00	0.00	0.00	0.02	0.00	1.92	2.00	0.00	0.00	0.02	0.00
1.94	2.00	0.00	0.00	0.02	0.00	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.02	2.00	0.00	0.00	0.02	0.00	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	2.00	0.00	0.00	0.02	0.00
2.10	2.00	0.00	0.00	0.02	0.00	2.12	2.00	0.00	0.00	0.02	0.00
2.14	2.00	0.00	0.00	0.02	0.00	2.16	2.00	0.00	0.00	0.02	0.00
2.18	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00
2.42	2.00	0.00	0.00	0.02	0.00	2.44	2.00	0.00	0.00	0.02	0.00
2.46	2.00	0.00	0.00	0.02	0.00	2.48	2.00	0.00	0.00	0.02	0.00
2.50	2.00	0.00	0.00	0.02	0.00	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	2.00	0.00	0.00	0.02	0.00	2.64	2.00	0.00	0.00	0.02	0.00
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	2.00	0.00	0.00	0.02	0.00
2.74	2.00	0.00	0.00	0.02	0.00	2.76	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
2.82	2.00	0.00	0.00	0.02	0.00	2.84	2.00	0.00	0.00	0.02	0.00
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	2.00	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	2.00	0.00	0.00	0.02	0.00	3.08	2.00	0.00	0.00	0.02	0.00
3.10	2.00	0.00	0.00	0.02	0.00	3.12	2.00	0.00	0.00	0.02	0.00
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.42	2.00	0.00	0.00	0.02	0.00	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.02	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.62	2.00	0.00	0.00	0.02	0.00	3.64	2.00	0.00	0.00	0.02	0.00
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	2.00	0.00	0.00	0.02	0.00
3.74	2.00	0.00	0.00	0.02	0.00	3.76	2.00	0.00	0.00	0.02	0.00
3.78	2.00	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.82	2.00	0.00	0.00	0.02	0.00	3.84	2.00	0.00	0.00	0.02	0.00
3.86	2.00	0.00	0.00	0.02	0.00	3.88	2.00	0.00	0.00	0.02	0.00
3.90	2.00	0.00	0.00	0.02	0.00	3.92	2.00	0.00	0.00	0.02	0.00
3.94	2.00	0.00	0.00	0.02	0.00	3.96	2.00	0.00	0.00	0.02	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.02	2.00	0.00	0.00	0.02	0.00	4.04	2.00	0.00	0.00	0.02	0.00
4.06	2.00	0.00	0.00	0.02	0.00	4.08	2.00	0.00	0.00	0.02	0.00
4.10	2.00	0.00	0.00	0.02	0.00	4.12	2.00	0.00	0.00	0.02	0.00
4.14	2.00	0.00	0.00	0.02	0.00	4.16	2.00	0.00	0.00	0.02	0.00
4.18	2.00	0.00	0.00	0.02	0.00	4.20	2.00	0.00	0.00	0.02	0.00
4.22	2.00	0.00	0.00	0.02	0.00	4.24	2.00	0.00	0.00	0.02	0.00
4.26	2.00	0.00	0.00	0.02	0.00	4.28	2.00	0.00	0.00	0.02	0.00
4.30	2.00	0.00	0.00	0.02	0.00	4.32	2.00	0.00	0.00	0.02	0.00
4.34	2.00	0.00	0.00	0.02	0.00	4.36	2.00	0.00	0.00	0.02	0.00
4.38	2.00	0.00	0.00	0.02	0.00	4.40	2.00	0.00	0.00	0.02	0.00
4.42	2.00	0.00	0.00	0.02	0.00	4.44	2.00	0.00	0.00	0.02	0.00
4.46	2.00	0.00	0.00	0.02	0.00	4.48	2.00	0.00	0.00	0.02	0.00
4.50	2.00	0.00	0.00	0.02	0.00	4.52	2.00	0.00	0.00	0.02	0.00
4.54	2.00	0.00	0.00	0.02	0.00	4.56	2.00	0.00	0.00	0.02	0.00
4.58	2.00	0.00	0.00	0.02	0.00	4.60	2.00	0.00	0.00	0.02	0.00
4.62	2.00	0.00	0.00	0.02	0.00	4.64	2.00	0.00	0.00	0.02	0.00
4.66	2.00	0.00	0.00	0.02	0.00	4.68	2.00	0.00	0.00	0.02	0.00
4.70	2.00	0.00	0.00	0.02	0.00	4.72	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
4.74	2.00	0.00	0.00	0.02	0.00	4.76	2.00	0.00	0.00	0.02	0.00
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	2.00	0.00	0.00	0.02	0.00
4.86	2.00	0.00	0.00	0.02	0.00	4.88	2.00	0.00	0.00	0.02	0.00
4.90	2.00	0.00	0.00	0.02	0.00	4.92	2.00	0.00	0.00	0.02	0.00
4.94	2.00	0.00	0.00	0.02	0.00	4.96	2.00	0.00	0.00	0.02	0.00
4.98	2.00	0.00	0.00	0.02	0.00	5.00	2.00	0.00	0.00	0.02	0.00
5.02	2.00	0.00	0.00	0.02	0.00	5.04	2.00	0.00	0.00	0.02	0.00
5.06	2.00	0.00	0.00	0.02	0.00	5.08	2.00	0.00	0.00	0.02	0.00
5.10	2.00	0.00	0.00	0.02	0.00	5.12	2.00	0.00	0.00	0.02	0.00
5.14	2.00	0.00	0.00	0.02	0.00	5.16	2.00	0.00	0.00	0.02	0.00
5.18	2.00	0.00	0.00	0.02	0.00	5.20	2.00	0.00	0.00	0.02	0.00
5.22	2.00	0.00	0.00	0.02	0.00	5.24	2.00	0.00	0.00	0.02	0.00
5.26	2.00	0.00	0.00	0.02	0.00	5.28	2.00	0.00	0.00	0.02	0.00
5.30	2.00	0.00	0.00	0.02	0.00	5.32	2.00	0.00	0.00	0.02	0.00
5.34	2.00	0.00	0.00	0.02	0.00	5.36	2.00	0.00	0.00	0.02	0.00
5.38	2.00	0.00	0.00	0.02	0.00	5.40	2.00	0.00	0.00	0.02	0.00
5.42	2.00	0.00	0.00	0.02	0.00	5.44	2.00	0.00	0.00	0.02	0.00
5.46	2.00	0.00	0.00	0.02	0.00	5.48	2.00	0.00	0.00	0.02	0.00
5.50	2.00	0.00	0.00	0.02	0.00	5.52	2.00	0.00	0.00	0.02	0.00
5.54	2.00	0.00	0.00	0.02	0.00	5.56	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.02	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.62	2.00	0.00	0.00	0.02	0.00	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	2.00	0.00	0.00	0.02	0.00
5.86	2.00	0.00	0.00	0.02	0.00	5.88	2.00	0.00	0.00	0.02	0.00
5.90	2.00	0.00	0.00	0.02	0.00	5.92	2.00	0.00	0.00	0.02	0.00
5.94	2.00	0.00	0.00	0.02	0.00	5.96	2.00	0.00	0.00	0.02	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.02	0.00
6.02	2.00	0.00	0.00	0.02	0.00	6.04	2.00	0.00	0.00	0.02	0.00
6.06	2.00	0.00	0.00	0.02	0.00	6.08	2.00	0.00	0.00	0.02	0.00
6.10	2.00	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00	9.44	2.00	0.00	0.00	0.02	0.00
9.46	2.00	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00
9.62	2.00	0.00	0.00	0.02	0.00	9.64	2.00	0.00	0.00	0.02	0.00
9.66	2.00	0.00	0.00	0.02	0.00	9.68	2.00	0.00	0.00	0.02	0.00
9.70	2.00	0.00	0.00	0.02	0.00	9.72	2.00	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI

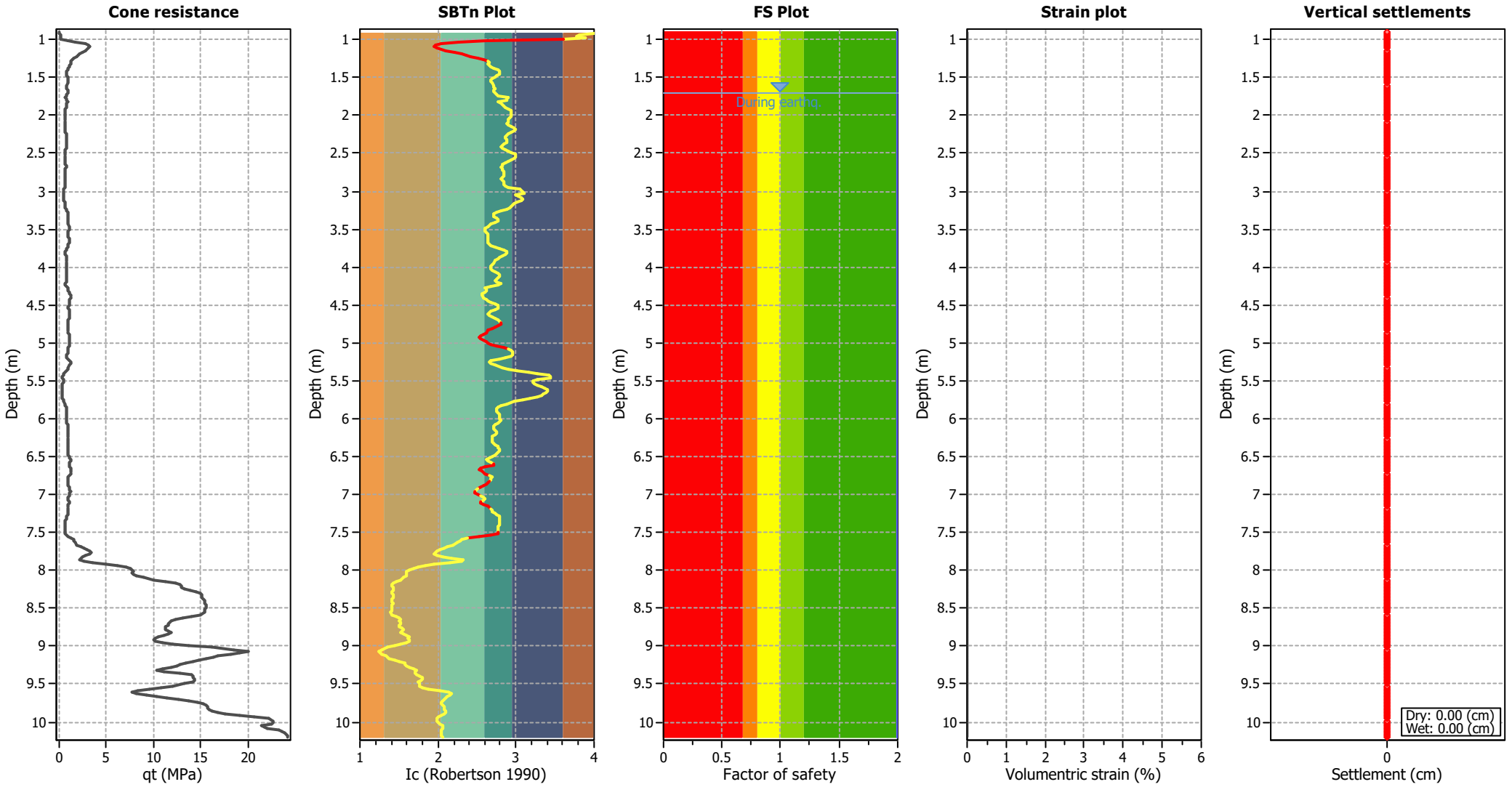
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
1.70	83.15	2.00	0.00	0.91	0.00	1.72	84.77	2.00	0.00	0.90	0.00
1.74	86.69	2.00	0.00	0.90	0.00	1.76	93.59	2.00	0.00	0.90	0.00
1.78	95.04	2.00	0.00	0.90	0.00	1.80	96.14	2.00	0.00	0.90	0.00
1.82	92.53	2.00	0.00	0.90	0.00	1.84	93.67	2.00	0.00	0.90	0.00
1.86	94.15	2.00	0.00	0.90	0.00	1.88	94.27	2.00	0.00	0.90	0.00
1.90	95.75	2.00	0.00	0.89	0.00	1.92	97.26	2.00	0.00	0.89	0.00
1.94	97.54	2.00	0.00	0.89	0.00	1.96	96.45	2.00	0.00	0.89	0.00
1.98	96.36	2.00	0.00	0.89	0.00	2.00	95.37	2.00	0.00	0.89	0.00
2.02	96.22	2.00	0.00	0.89	0.00	2.04	95.82	2.00	0.00	0.89	0.00
2.06	96.22	2.00	0.00	0.89	0.00	2.08	94.50	2.00	0.00	0.88	0.00
2.10	93.59	2.00	0.00	0.88	0.00	2.12	94.25	2.00	0.00	0.88	0.00
2.14	96.12	2.00	0.00	0.88	0.00	2.16	98.38	2.00	0.00	0.88	0.00
2.18	100.66	2.00	0.00	0.88	0.00	2.20	101.78	2.00	0.00	0.88	0.00
2.22	101.65	2.00	0.00	0.88	0.00	2.24	100.14	2.00	0.00	0.88	0.00
2.26	98.38	2.00	0.00	0.87	0.00	2.28	97.87	2.00	0.00	0.87	0.00
2.30	98.29	2.00	0.00	0.87	0.00	2.32	98.70	2.00	0.00	0.87	0.00
2.34	98.01	2.00	0.00	0.87	0.00	2.36	96.26	2.00	0.00	0.87	0.00
2.38	93.49	2.00	0.00	0.87	0.00	2.40	90.22	2.00	0.00	0.87	0.00
2.42	87.89	2.00	0.00	0.87	0.00	2.44	86.77	2.00	0.00	0.86	0.00
2.46	87.37	2.00	0.00	0.86	0.00	2.48	88.65	2.00	0.00	0.86	0.00
2.50	91.25	2.00	0.00	0.86	0.00	2.52	93.88	2.00	0.00	0.86	0.00
2.54	95.02	2.00	0.00	0.86	0.00	2.56	93.82	2.00	0.00	0.86	0.00
2.58	91.06	2.00	0.00	0.86	0.00	2.60	87.35	2.00	0.00	0.86	0.00
2.62	84.68	2.00	0.00	0.85	0.00	2.64	81.73	2.00	0.00	0.85	0.00
2.66	81.03	2.00	0.00	0.85	0.00	2.68	80.69	2.00	0.00	0.85	0.00
2.70	80.95	2.00	0.00	0.85	0.00	2.72	80.31	2.00	0.00	0.85	0.00
2.74	80.02	2.00	0.00	0.85	0.00	2.76	80.06	2.00	0.00	0.85	0.00
2.78	79.64	2.00	0.00	0.85	0.00	2.80	78.78	2.00	0.00	0.84	0.00
2.82	77.72	2.00	0.00	0.84	0.00	2.84	77.60	2.00	0.00	0.84	0.00
2.86	78.02	2.00	0.00	0.84	0.00	2.88	78.64	2.00	0.00	0.84	0.00
2.90	78.73	2.00	0.00	0.84	0.00	2.92	78.40	2.00	0.00	0.84	0.00
2.94	78.72	2.00	0.00	0.84	0.00	2.96	80.12	2.00	0.00	0.84	0.00
2.98	85.05	2.00	0.00	0.83	0.00	3.00	85.23	2.00	0.00	0.83	0.00
3.02	84.36	2.00	0.00	0.83	0.00	3.04	80.69	2.00	0.00	0.83	0.00
3.06	81.97	2.00	0.00	0.83	0.00	3.08	85.12	2.00	0.00	0.83	0.00
3.10	88.76	2.00	0.00	0.83	0.00	3.12	91.69	2.00	0.00	0.83	0.00
3.14	92.57	2.00	0.00	0.83	0.00	3.16	92.23	2.00	0.00	0.82	0.00
3.18	91.75	2.00	0.00	0.82	0.00	3.20	91.75	2.00	0.00	0.82	0.00
3.22	91.44	2.00	0.00	0.82	0.00	3.24	90.87	2.00	0.00	0.82	0.00
3.26	89.04	2.00	0.00	0.82	0.00	3.28	87.48	2.00	0.00	0.82	0.00
3.30	86.10	2.00	0.00	0.82	0.00	3.32	87.23	2.00	0.00	0.82	0.00
3.34	89.28	2.00	0.00	0.81	0.00	3.36	91.57	2.00	0.00	0.81	0.00
3.38	92.99	2.00	0.00	0.81	0.00	3.40	92.70	2.00	0.00	0.81	0.00
3.42	89.11	2.00	0.00	0.81	0.00	3.44	169.05	2.00	0.00	0.81	0.00
3.46	132.70	2.00	0.00	0.81	0.00	3.48	114.28	2.00	0.00	0.81	0.00
3.50	106.76	2.00	0.00	0.81	0.00	3.52	106.79	2.00	0.00	0.80	0.00
3.54	118.02	2.00	0.00	0.80	0.00	3.56	127.53	2.00	0.00	0.80	0.00
3.58	134.72	2.00	0.00	0.80	0.00	3.60	132.97	2.00	0.00	0.80	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
3.62	131.91	2.00	0.00	0.80	0.00	3.64	128.40	2.00	0.00	0.80	0.00
3.66	128.48	2.00	0.00	0.80	0.00	3.68	127.77	2.00	0.00	0.80	0.00
3.70	137.16	2.00	0.00	0.79	0.00	3.72	157.51	2.00	0.00	0.79	0.00
3.74	81.92	2.00	0.00	0.79	0.00	3.76	85.37	2.00	0.00	0.79	0.00
3.78	87.98	2.00	0.00	0.79	0.00	3.80	89.15	2.00	0.00	0.79	0.00
3.82	88.30	2.00	0.00	0.79	0.00	3.84	85.31	2.00	0.00	0.79	0.00
3.86	82.13	2.00	0.00	0.79	0.00	3.88	77.92	2.00	0.00	0.78	0.00
3.90	75.18	2.00	0.00	0.78	0.00	3.92	71.90	2.00	0.00	0.78	0.00
3.94	70.14	2.00	0.00	0.78	0.00	3.96	142.63	2.00	0.00	0.78	0.00
3.98	134.87	2.00	0.00	0.78	0.00	4.00	136.20	2.00	0.00	0.78	0.00
4.02	142.44	2.00	0.00	0.78	0.00	4.04	73.12	2.00	0.00	0.78	0.00
4.06	75.65	2.00	0.00	0.77	0.00	4.08	78.17	2.00	0.00	0.77	0.00
4.10	78.83	2.00	0.00	0.77	0.00	4.12	78.04	2.00	0.00	0.77	0.00
4.14	76.05	2.00	0.00	0.77	0.00	4.16	73.76	2.00	0.00	0.77	0.00
4.18	71.27	2.00	0.00	0.77	0.00	4.20	68.17	2.00	0.00	0.77	0.00
4.22	65.70	2.00	0.00	0.77	0.00	4.24	64.43	2.00	0.00	0.76	0.00
4.26	128.77	2.00	0.00	0.76	0.00	4.28	96.13	2.00	0.00	0.76	0.00
4.30	112.01	2.00	0.00	0.76	0.00	4.32	117.88	2.00	0.00	0.76	0.00
4.34	109.81	2.00	0.00	0.76	0.00	4.36	89.14	2.00	0.00	0.76	0.00
4.38	90.64	2.00	0.00	0.76	0.00	4.40	105.58	2.00	0.00	0.76	0.00
4.42	130.23	2.00	0.00	0.75	0.00	4.44	153.12	2.00	0.00	0.75	0.00
4.46	186.57	2.00	0.00	0.75	0.00	4.48	97.50	2.00	0.00	0.75	0.00
4.50	102.50	2.00	0.00	0.75	0.00	4.52	103.92	2.00	0.00	0.75	0.00
4.54	101.02	2.00	0.00	0.75	0.00	4.56	97.06	2.00	0.00	0.75	0.00
4.58	183.65	2.00	0.00	0.75	0.00	4.60	163.82	2.00	0.00	0.74	0.00
4.62	150.97	2.00	0.00	0.74	0.00	4.64	166.44	2.00	0.00	0.74	0.00
4.66	194.88	2.00	0.00	0.74	0.00	4.68	95.62	2.00	0.00	0.74	0.00
4.70	97.20	2.00	0.00	0.74	0.00	4.72	97.65	2.00	0.00	0.74	0.00
4.74	96.10	2.00	0.00	0.74	0.00	4.76	93.41	2.00	0.00	0.74	0.00
4.78	88.82	2.00	0.00	0.73	0.00	4.80	82.60	2.00	0.00	0.73	0.00
4.82	163.93	2.00	0.00	0.73	0.00	4.84	126.36	2.00	0.00	0.73	0.00
4.86	106.58	2.00	0.00	0.73	0.00	4.88	87.65	2.00	0.00	0.73	0.00
4.90	72.89	2.00	0.00	0.73	0.00	4.92	69.51	2.00	0.00	0.73	0.00
4.94	81.14	2.00	0.00	0.73	0.00	4.96	104.26	2.00	0.00	0.72	0.00
4.98	120.54	2.00	0.00	0.72	0.00	5.00	138.20	2.00	0.00	0.72	0.00
5.02	169.31	2.00	0.00	0.72	0.00	5.04	102.19	2.00	0.00	0.72	0.00
5.06	114.75	2.00	0.00	0.72	0.00	5.08	125.09	2.00	0.00	0.72	0.00
5.10	128.21	2.00	0.00	0.72	0.00	5.12	128.75	2.00	0.00	0.72	0.00
5.14	127.00	2.00	0.00	0.71	0.00	5.16	120.39	2.00	0.00	0.71	0.00
5.18	112.45	2.00	0.00	0.71	0.00	5.20	102.40	2.00	0.00	0.71	0.00
5.22	95.75	2.00	0.00	0.71	0.00	5.24	181.51	2.00	0.00	0.71	0.00
5.26	159.43	2.00	0.00	0.71	0.00	5.28	182.87	2.00	0.00	0.71	0.00
5.30	105.02	2.00	0.00	0.71	0.00	5.32	111.85	2.00	0.00	0.70	0.00
5.34	115.59	2.00	0.00	0.70	0.00	5.36	120.43	2.00	0.00	0.70	0.00
5.38	128.32	2.00	0.00	0.70	0.00	5.40	134.18	2.00	0.00	0.70	0.00
5.42	130.07	2.00	0.00	0.70	0.00	5.44	118.13	2.00	0.00	0.70	0.00
5.46	102.76	2.00	0.00	0.70	0.00	5.48	93.71	2.00	0.00	0.70	0.00
5.50	88.47	2.00	0.00	0.69	0.00	5.52	84.94	2.00	0.00	0.69	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
5.54	83.72	2.00	0.00	0.69	0.00	5.56	84.47	2.00	0.00	0.69	0.00
5.58	85.71	2.00	0.00	0.69	0.00	5.60	86.12	2.00	0.00	0.69	0.00
5.62	84.85	2.00	0.00	0.69	0.00	5.64	80.77	2.00	0.00	0.69	0.00
5.66	75.91	2.00	0.00	0.69	0.00	5.68	70.66	2.00	0.00	0.68	0.00
5.70	67.43	2.00	0.00	0.68	0.00	5.72	64.90	2.00	0.00	0.68	0.00
5.74	63.48	2.00	0.00	0.68	0.00	5.76	63.54	2.00	0.00	0.68	0.00
5.78	63.51	2.00	0.00	0.68	0.00	5.80	63.77	2.00	0.00	0.68	0.00
5.82	64.75	2.00	0.00	0.68	0.00	5.84	67.00	2.00	0.00	0.68	0.00
5.86	69.21	2.00	0.00	0.67	0.00	5.88	71.69	2.00	0.00	0.67	0.00
5.90	73.70	2.00	0.00	0.67	0.00	5.92	76.64	2.00	0.00	0.67	0.00
5.94	78.81	2.00	0.00	0.67	0.00	5.96	80.71	2.00	0.00	0.67	0.00
5.98	80.57	2.00	0.00	0.67	0.00	6.00	80.93	2.00	0.00	0.67	0.00
6.02	80.81	2.00	0.00	0.67	0.00	6.04	79.91	2.00	0.00	0.66	0.00
6.06	76.85	2.00	0.00	0.66	0.00	6.08	73.41	2.00	0.00	0.66	0.00
6.10	71.27	2.00	0.00	0.66	0.00	6.12	70.82	2.00	0.00	0.66	0.00
6.14	72.67	2.00	0.00	0.66	0.00	6.16	75.32	2.00	0.00	0.66	0.00
6.18	78.06	2.00	0.00	0.66	0.00	6.20	78.72	2.00	0.00	0.66	0.00
6.22	77.47	2.00	0.00	0.65	0.00	6.24	75.57	2.00	0.00	0.65	0.00
6.26	157.20	2.00	0.00	0.65	0.00	6.28	72.38	2.00	0.00	0.65	0.00
6.30	70.99	2.00	0.00	0.65	0.00	6.32	71.37	2.00	0.00	0.65	0.00
6.34	73.29	2.00	0.00	0.65	0.00	6.36	76.41	2.00	0.00	0.65	0.00
6.38	78.38	2.00	0.00	0.65	0.00	6.40	79.92	2.00	0.00	0.64	0.00
6.42	79.94	2.00	0.00	0.64	0.00	6.44	79.93	2.00	0.00	0.64	0.00
6.46	79.00	2.00	0.00	0.64	0.00	6.48	78.43	2.00	0.00	0.64	0.00
6.50	162.33	2.00	0.00	0.64	0.00	6.52	136.16	2.00	0.00	0.64	0.00
6.54	116.62	2.00	0.00	0.64	0.00	6.56	125.79	2.00	0.00	0.64	0.00
6.58	159.70	2.00	0.00	0.63	0.00	6.60	79.26	2.00	0.00	0.63	0.00
6.62	76.85	2.00	0.00	0.63	0.00	6.64	97.56	2.00	0.00	0.63	0.00
6.66	73.17	2.00	0.00	0.63	0.00	6.68	65.10	2.00	0.00	0.63	0.00
6.70	83.31	2.00	0.00	0.63	0.00	6.72	100.58	2.00	0.00	0.63	0.00
6.74	119.75	2.00	0.00	0.63	0.00	6.76	134.93	2.00	0.00	0.62	0.00
6.78	126.43	2.00	0.00	0.62	0.00	6.80	114.77	2.00	0.00	0.62	0.00
6.82	104.40	2.00	0.00	0.62	0.00	6.84	92.89	2.00	0.00	0.62	0.00
6.86	80.37	2.00	0.00	0.62	0.00	6.88	67.88	2.00	0.00	0.62	0.00
6.90	57.13	2.00	0.00	0.62	0.00	6.92	47.76	2.00	0.00	0.62	0.00
6.94	47.80	2.00	0.00	0.61	0.00	6.96	46.81	2.00	0.00	0.61	0.00
6.98	46.05	2.00	0.00	0.61	0.00	7.00	44.52	2.00	0.00	0.61	0.00
7.02	56.64	2.00	0.00	0.61	0.00	7.04	69.18	2.00	0.00	0.61	0.00
7.06	73.16	2.00	0.00	0.61	0.00	7.08	65.35	2.00	0.00	0.61	0.00
7.10	57.33	2.00	0.00	0.61	0.00	7.12	57.22	2.00	0.00	0.60	0.00
7.14	69.51	2.00	0.00	0.60	0.00	7.16	92.15	2.00	0.00	0.60	0.00
7.18	112.07	2.00	0.00	0.60	0.00	7.20	130.06	2.00	0.00	0.60	0.00
7.22	65.03	2.00	0.00	0.60	0.00	7.24	68.16	2.00	0.00	0.60	0.00
7.26	67.49	2.00	0.00	0.60	0.00	7.28	65.21	2.00	0.00	0.60	0.00
7.30	60.31	2.00	0.00	0.59	0.00	7.32	57.32	2.00	0.00	0.59	0.00
7.34	55.03	2.00	0.00	0.59	0.00	7.36	53.12	2.00	0.00	0.59	0.00
7.38	51.04	2.00	0.00	0.59	0.00	7.40	49.18	2.00	0.00	0.59	0.00
7.42	48.22	2.00	0.00	0.59	0.00	7.44	47.60	2.00	0.00	0.59	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
7.46	48.42	2.00	0.00	0.59	0.00	7.48	49.00	2.00	0.00	0.58	0.00
7.50	49.45	2.00	0.00	0.58	0.00	7.52	49.41	2.00	0.00	0.58	0.00
7.54	96.22	2.00	0.00	0.58	0.00	7.56	44.95	2.00	0.00	0.58	0.00
7.58	38.79	2.00	0.00	0.58	0.00	7.60	19.91	2.00	0.00	0.58	0.00
7.62	20.76	2.00	0.00	0.58	0.00	7.64	22.39	2.00	0.00	0.58	0.00
7.66	25.37	2.00	0.00	0.57	0.00	7.68	29.86	2.00	0.00	0.57	0.00
7.70	34.23	2.00	0.00	0.57	0.00	7.72	38.67	2.00	0.00	0.57	0.00
7.74	42.19	2.00	0.00	0.57	0.00	7.76	42.98	2.00	0.00	0.57	0.00
7.78	40.69	2.00	0.00	0.57	0.00	7.80	36.48	2.00	0.00	0.57	0.00
7.82	32.39	2.00	0.00	0.57	0.00	7.84	29.50	2.00	0.00	0.56	0.00
7.86	59.62	2.00	0.00	0.56	0.00	7.88	66.75	2.00	0.00	0.56	0.00
7.90	71.67	2.00	0.00	0.56	0.00	7.92	81.93	2.00	0.00	0.56	0.00
7.94	93.84	2.00	0.00	0.56	0.00	7.96	88.58	2.00	0.00	0.56	0.00
7.98	93.43	2.00	0.00	0.56	0.00	8.00	94.83	2.00	0.00	0.56	0.00
8.02	94.43	2.00	0.00	0.55	0.00	8.04	93.98	2.00	0.00	0.55	0.00
8.06	94.82	2.00	0.00	0.55	0.00	8.08	99.15	2.00	0.00	0.55	0.00
8.10	107.40	2.00	0.00	0.55	0.00	8.12	119.80	2.00	0.00	0.55	0.00
8.14	133.53	2.00	0.00	0.55	0.00	8.16	144.66	2.00	0.00	0.55	0.00
8.18	150.52	2.00	0.00	0.55	0.00	8.20	152.02	2.00	0.00	0.54	0.00
8.22	152.64	2.00	0.00	0.54	0.00	8.24	154.80	2.00	0.00	0.54	0.00
8.26	161.27	2.00	0.00	0.54	0.00	8.28	168.24	2.00	0.00	0.54	0.00
8.30	174.51	2.00	0.00	0.54	0.00	8.32	176.20	2.00	0.00	0.54	0.00
8.34	176.64	2.00	0.00	0.54	0.00	8.36	176.52	2.00	0.00	0.54	0.00
8.38	177.25	2.00	0.00	0.53	0.00	8.40	178.01	2.00	0.00	0.53	0.00
8.42	178.95	2.00	0.00	0.53	0.00	8.44	179.20	2.00	0.00	0.53	0.00
8.46	179.88	2.00	0.00	0.53	0.00	8.48	179.09	2.00	0.00	0.53	0.00
8.50	178.56	2.00	0.00	0.53	0.00	8.52	177.72	2.00	0.00	0.53	0.00
8.54	177.38	2.00	0.00	0.53	0.00	8.56	176.05	2.00	0.00	0.52	0.00
8.58	171.64	2.00	0.00	0.52	0.00	8.60	162.84	2.00	0.00	0.52	0.00
8.62	151.63	2.00	0.00	0.52	0.00	8.64	142.29	2.00	0.00	0.52	0.00
8.66	137.35	2.00	0.00	0.52	0.00	8.68	135.87	2.00	0.00	0.52	0.00
8.70	134.28	2.00	0.00	0.52	0.00	8.72	132.43	2.00	0.00	0.52	0.00
8.74	130.14	2.00	0.00	0.51	0.00	8.76	129.06	2.00	0.00	0.51	0.00
8.78	130.51	2.00	0.00	0.51	0.00	8.80	133.93	2.00	0.00	0.51	0.00
8.82	136.09	2.00	0.00	0.51	0.00	8.84	132.82	2.00	0.00	0.51	0.00
8.86	127.72	2.00	0.00	0.51	0.00	8.88	121.49	2.00	0.00	0.51	0.00
8.90	118.05	2.00	0.00	0.51	0.00	8.92	115.26	2.00	0.00	0.50	0.00
8.94	117.05	2.00	0.00	0.50	0.00	8.96	124.93	2.00	0.00	0.50	0.00
8.98	137.00	2.00	0.00	0.50	0.00	9.00	155.07	2.00	0.00	0.50	0.00
9.02	180.99	2.00	0.00	0.50	0.00	9.04	204.49	2.00	0.00	0.50	0.00
9.06	220.34	2.00	0.00	0.50	0.00	9.08	210.30	2.00	0.00	0.50	0.00
9.10	201.28	2.00	0.00	0.49	0.00	9.12	185.92	2.00	0.00	0.49	0.00
9.14	181.97	2.00	0.00	0.49	0.00	9.16	172.48	2.00	0.00	0.49	0.00
9.18	165.91	2.00	0.00	0.49	0.00	9.20	158.91	2.00	0.00	0.49	0.00
9.22	151.67	2.00	0.00	0.49	0.00	9.24	145.03	2.00	0.00	0.49	0.00
9.26	140.45	2.00	0.00	0.49	0.00	9.28	134.96	2.00	0.00	0.48	0.00
9.30	123.97	2.00	0.00	0.48	0.00	9.32	120.91	2.00	0.00	0.48	0.00
9.34	130.21	2.00	0.00	0.48	0.00	9.36	145.97	2.00	0.00	0.48	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
9.38	168.11	2.00	0.00	0.48	0.00	9.40	180.29	2.00	0.00	0.48	0.00
9.42	188.25	2.00	0.00	0.48	0.00	9.44	187.81	2.00	0.00	0.48	0.00
9.46	184.77	2.00	0.00	0.47	0.00	9.48	172.85	2.00	0.00	0.47	0.00
9.50	164.58	2.00	0.00	0.47	0.00	9.52	150.37	2.00	0.00	0.47	0.00
9.54	141.61	2.00	0.00	0.47	0.00	9.56	132.42	2.00	0.00	0.47	0.00
9.58	126.99	2.00	0.00	0.47	0.00	9.60	133.62	2.00	0.00	0.47	0.00
9.62	148.33	2.00	0.00	0.47	0.00	9.64	160.83	2.00	0.00	0.46	0.00
9.66	173.22	2.00	0.00	0.46	0.00	9.68	186.56	2.00	0.00	0.46	0.00
9.70	202.02	2.00	0.00	0.46	0.00	9.72	215.00	2.00	0.00	0.46	0.00
9.74	225.81	2.00	0.00	0.46	0.00	9.76	235.31	2.00	0.00	0.46	0.00
9.78	243.32	2.00	0.00	0.46	0.00	9.80	248.18	2.00	0.00	0.46	0.00
9.82	250.25	2.00	0.00	0.45	0.00	9.84	253.49	2.00	0.00	0.45	0.00
9.86	260.20	2.00	0.00	0.45	0.00	9.88	269.15	2.00	0.00	0.45	0.00
9.90	278.80	2.00	0.00	0.45	0.00	9.92	291.92	2.00	0.00	0.45	0.00
9.94	306.70	2.00	0.00	0.45	0.00	9.96	321.10	2.00	0.00	0.45	0.00
9.98	328.91	2.00	0.00	0.45	0.00	10.00	330.73	2.00	0.00	0.44	0.00
10.02	331.49	2.00	0.00	0.44	0.00	10.04	325.42	2.00	0.00	0.44	0.00
10.06	329.84	2.00	0.00	0.44	0.00	10.08	336.17	2.00	0.00	0.44	0.00
10.10	348.23	2.00	0.00	0.44	0.00	10.12	352.46	2.00	0.00	0.44	0.00
10.14	355.62	2.00	0.00	0.44	0.00	10.16	359.10	2.00	0.00	0.44	0.00
10.18	361.33	2.00	0.00	0.43	0.00	10.20	362.23	2.00	0.00	0.43	0.00

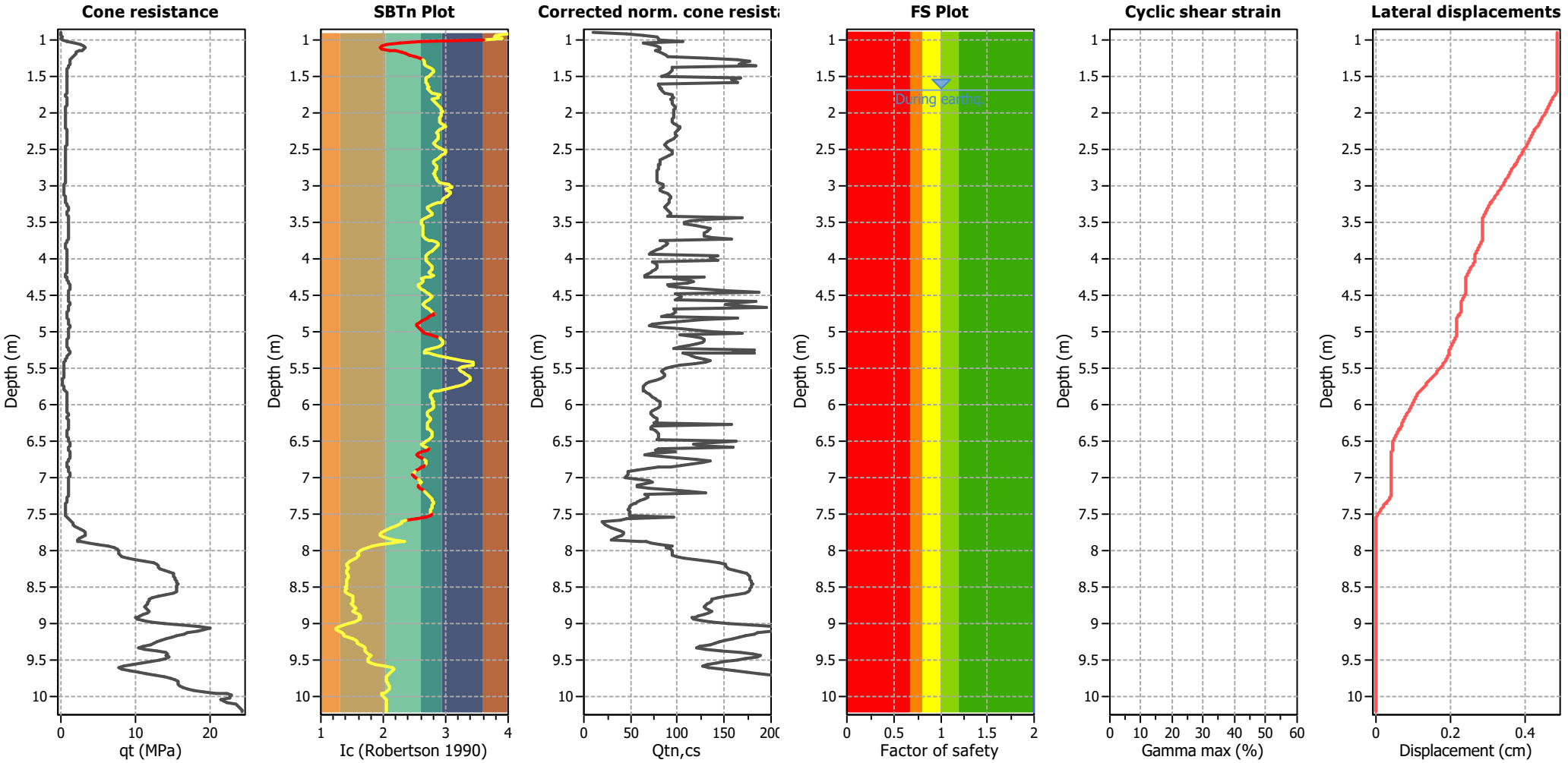
Total estimated settlement: 0.00

Abbreviations

$Q_{tn,cs}$: Equivalent clean sand normalized cone resistance
FS: Factor of safety against liquefaction
e_v (%): Post-liquefaction volumentric strain
DF: e_v depth weighting factor
Settlement: Calculated settlement

Estimation of post-earthquake lateral Displacements

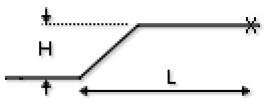
Geometric parameters: Level ground (or gently sloping) with free face (L: 16.75 m - H: 2.80 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
1.70	0.87	16.66	2.04	83.15	2.00	7.85	0.07	0.00
1.72	0.85	16.20	2.13	84.77	2.00	6.92	0.07	0.00
1.74	0.82	15.75	2.25	86.69	2.00	6.00	0.07	0.00
1.76	0.68	12.88	2.85	93.59	2.00	0.00	0.08	0.00
1.78	0.71	13.58	2.86	95.04	2.00	1.11	0.08	0.00
1.80	0.74	13.98	2.88	96.14	2.00	2.06	0.08	0.00
1.82	0.87	16.65	2.48	92.53	2.00	7.83	0.07	0.00
1.84	0.82	15.71	2.59	93.67	2.00	5.91	0.07	0.00
1.86	0.79	15.10	2.66	94.15	2.00	4.61	0.07	0.00
1.88	0.77	14.71	2.70	94.27	2.00	3.73	0.07	0.00
1.90	0.74	14.12	2.84	95.75	2.00	2.38	0.08	0.00
1.92	0.71	13.45	2.99	97.26	2.00	0.79	0.08	0.00
1.94	0.68	12.75	3.09	97.54	2.00	0.00	0.08	0.00
1.96	0.66	12.49	3.06	96.45	2.00	0.00	0.08	0.00
1.98	0.66	12.34	3.07	96.36	2.00	0.00	0.08	0.00
2.00	0.66	12.45	3.00	95.37	2.00	0.00	0.08	0.00
2.02	0.67	12.58	3.03	96.22	2.00	0.00	0.08	0.00
2.04	0.68	12.87	2.97	95.82	2.00	0.00	0.08	0.00
2.06	0.70	13.12	2.96	96.22	2.00	0.00	0.08	0.00
2.08	0.70	13.27	2.84	94.50	2.00	0.35	0.08	0.00
2.10	0.70	13.23	2.79	93.59	2.00	0.24	0.08	0.00
2.12	0.69	12.93	2.86	94.25	2.00	0.00	0.08	0.00
2.14	0.66	12.44	3.03	96.12	2.00	0.00	0.08	0.00
2.16	0.64	11.93	3.25	98.38	2.00	0.00	0.08	0.00
2.18	0.63	11.69	3.44	100.66	2.00	0.00	0.08	0.00
2.20	0.65	12.17	3.43	101.78	2.00	0.00	0.08	0.00
2.22	0.69	13.01	3.29	101.65	2.00	0.00	0.08	0.00
2.24	0.74	13.93	3.09	100.14	2.00	1.93	0.08	0.00
2.26	0.77	14.42	2.93	98.38	2.00	3.08	0.07	0.00
2.28	0.78	14.63	2.88	97.87	2.00	3.55	0.07	0.00
2.30	0.78	14.61	2.91	98.29	2.00	3.51	0.07	0.00
2.32	0.76	14.28	2.96	98.70	2.00	2.75	0.07	0.00
2.34	0.75	14.04	2.95	98.01	2.00	2.19	0.08	0.00
2.36	0.75	14.00	2.85	96.26	2.00	2.11	0.08	0.00
2.38	0.76	14.36	2.66	93.49	2.00	2.95	0.07	0.00
2.40	0.78	14.70	2.46	90.22	2.00	3.72	0.07	0.00
2.42	0.77	14.54	2.35	87.89	2.00	3.35	0.07	0.00
2.44	0.75	13.98	2.33	86.77	2.00	2.07	0.08	0.00
2.46	0.70	13.05	2.44	87.37	2.00	0.00	0.08	0.00
2.48	0.66	12.28	2.58	88.65	2.00	0.00	0.08	0.00
2.50	0.62	11.52	2.82	91.25	2.00	0.00	0.08	0.00
2.52	0.59	10.93	3.08	93.88	2.00	0.00	0.09	0.00
2.54	0.59	10.84	3.17	95.02	2.00	0.00	0.09	0.00
2.56	0.61	11.24	3.02	93.82	2.00	0.00	0.09	0.00
2.58	0.64	11.86	2.76	91.06	2.00	0.00	0.08	0.00
2.60	0.66	12.26	2.50	87.35	2.00	0.00	0.08	0.00
2.62	0.68	12.59	2.32	84.68	2.00	0.00	0.08	0.00
2.64	0.70	13.04	2.13	81.73	2.00	0.00	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
2.66	0.72	13.36	2.07	81.03	2.00	0.55	0.08	0.00
2.68	0.72	13.39	2.05	80.69	2.00	0.64	0.08	0.00
2.70	0.71	13.12	2.08	80.95	2.00	0.00	0.08	0.00
2.72	0.69	12.83	2.07	80.31	2.00	0.00	0.08	0.00
2.74	0.68	12.49	2.07	80.02	2.00	0.00	0.08	0.00
2.76	0.66	12.23	2.09	80.06	2.00	0.00	0.08	0.00
2.78	0.66	12.20	2.07	79.64	2.00	0.00	0.08	0.00
2.80	0.68	12.48	2.01	78.78	2.00	0.00	0.08	0.00
2.82	0.69	12.72	1.94	77.72	2.00	0.00	0.08	0.00
2.84	0.69	12.80	1.93	77.60	2.00	0.00	0.08	0.00
2.86	0.68	12.54	1.96	78.02	2.00	0.00	0.08	0.00
2.88	0.67	12.33	2.01	78.64	2.00	0.00	0.08	0.00
2.90	0.66	12.16	2.02	78.73	2.00	0.00	0.08	0.00
2.92	0.65	12.00	2.02	78.40	2.00	0.00	0.08	0.00
2.94	0.64	11.68	2.06	78.72	2.00	0.00	0.08	0.00
2.96	0.61	11.18	2.17	80.12	2.00	0.00	0.09	0.00
2.98	0.49	8.85	2.79	85.05	2.00	0.00	0.10	0.00
3.00	0.47	8.36	2.90	85.23	2.00	0.00	0.10	0.00
3.02	0.45	7.92	2.93	84.36	2.00	0.00	0.10	0.00
3.04	0.51	9.19	2.43	80.69	2.00	0.00	0.09	0.00
3.06	0.49	8.70	2.59	81.97	2.00	0.00	0.10	0.00
3.08	0.48	8.44	2.87	85.12	2.00	0.00	0.10	0.00
3.10	0.49	8.64	3.10	88.76	2.00	0.00	0.10	0.00
3.12	0.52	9.32	3.17	91.69	2.00	0.00	0.09	0.00
3.14	0.57	10.21	3.06	92.57	2.00	0.00	0.09	0.00
3.16	0.60	10.95	2.91	92.23	2.00	0.00	0.09	0.00
3.18	0.62	11.31	2.83	91.75	2.00	0.00	0.09	0.00
3.20	0.64	11.59	2.80	91.75	2.00	0.00	0.08	0.00
3.22	0.67	12.15	2.71	91.44	2.00	0.00	0.08	0.00
3.24	0.71	13.12	2.58	90.87	2.00	0.00	0.08	0.00
3.26	0.80	14.80	2.35	89.04	2.00	3.95	0.07	0.00
3.28	0.88	16.42	2.19	87.48	2.00	7.36	0.07	0.00
3.30	0.96	17.88	2.06	86.10	2.00	10.18	0.06	0.00
3.32	0.98	18.26	2.10	87.23	2.00	10.88	0.06	0.00
3.34	0.97	18.07	2.19	89.28	2.00	10.52	0.06	0.00
3.36	0.93	17.31	2.33	91.57	2.00	9.12	0.07	0.00
3.38	0.90	16.80	2.42	92.99	2.00	8.12	0.07	0.00
3.40	0.91	16.92	2.40	92.70	2.00	8.36	0.07	0.00
3.42	0.95	17.70	2.20	89.11	2.00	9.85	0.07	0.00
3.44	1.00	18.67	1.95	169.05	2.00	11.61	0.00	0.00
3.46	1.04	19.43	1.73	132.70	2.00	12.93	0.00	0.00
3.48	1.05	19.74	1.59	114.28	2.00	13.45	0.00	0.00
3.50	1.05	19.56	1.51	106.76	2.00	13.15	0.00	0.00
3.52	1.02	19.07	1.47	106.79	2.00	12.31	0.00	0.00
3.54	1.00	18.65	1.54	118.02	2.00	11.57	0.00	0.00
3.56	0.99	18.50	1.61	127.53	2.00	11.31	0.00	0.00
3.58	1.00	18.59	1.67	134.72	2.00	11.47	0.00	0.00
3.60	1.02	18.98	1.69	132.97	2.00	12.15	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
3.62	1.03	19.21	1.70	131.91	2.00	12.56	0.00	0.00
3.64	1.04	19.44	1.69	128.40	2.00	12.94	0.00	0.00
3.66	1.03	19.25	1.67	128.48	2.00	12.62	0.00	0.00
3.68	1.02	19.09	1.65	127.77	2.00	12.34	0.00	0.00
3.70	0.99	18.43	1.68	137.16	2.00	11.19	0.00	0.00
3.72	0.95	17.58	1.76	157.51	2.00	9.62	0.00	0.00
3.74	0.88	16.22	1.93	81.92	2.00	6.96	0.07	0.00
3.76	0.81	14.92	2.14	85.37	2.00	4.21	0.07	0.00
3.78	0.75	13.68	2.35	87.98	2.00	1.33	0.08	0.00
3.80	0.71	12.87	2.47	89.15	2.00	0.00	0.08	0.00
3.82	0.70	12.65	2.45	88.30	2.00	0.00	0.08	0.00
3.84	0.71	12.91	2.26	85.31	2.00	0.00	0.08	0.00
3.86	0.73	13.25	2.08	82.13	2.00	0.28	0.08	0.00
3.88	0.74	13.48	1.86	77.92	2.00	0.86	0.08	0.00
3.90	0.75	13.62	1.73	75.18	2.00	1.20	0.08	0.00
3.92	0.77	14.06	1.56	71.90	2.00	2.26	0.08	0.00
3.94	0.80	14.54	1.47	70.14	2.00	3.36	0.07	0.00
3.96	0.82	14.97	1.41	142.63	2.00	4.31	0.00	0.00
3.98	0.84	15.32	1.38	134.87	2.00	5.08	0.00	0.00
4.00	0.85	15.56	1.41	136.20	2.00	5.59	0.00	0.00
4.02	0.86	15.68	1.47	142.44	2.00	5.85	0.00	0.00
4.04	0.84	15.39	1.57	73.12	2.00	5.23	0.07	0.00
4.06	0.82	14.87	1.69	75.65	2.00	4.10	0.07	0.00
4.08	0.79	14.30	1.83	78.17	2.00	2.81	0.07	0.00
4.10	0.77	13.90	1.87	78.83	2.00	1.87	0.08	0.00
4.12	0.76	13.75	1.84	78.04	2.00	1.52	0.08	0.00
4.14	0.76	13.69	1.75	76.05	2.00	1.36	0.08	0.00
4.16	0.77	13.96	1.64	73.76	2.00	2.01	0.08	0.00
4.18	0.79	14.34	1.52	71.27	2.00	2.90	0.07	0.00
4.20	0.72	12.83	1.43	68.17	2.00	0.00	0.08	0.00
4.22	0.63	11.04	1.39	65.70	2.00	0.00	0.09	0.00
4.24	0.66	11.79	1.31	64.43	2.00	0.00	0.08	0.00
4.26	0.80	14.47	1.25	128.77	2.00	3.19	0.00	0.00
4.28	0.94	17.15	1.22	96.13	2.00	8.80	0.00	0.00
4.30	0.93	17.12	1.35	112.01	2.00	8.75	0.00	0.00
4.32	0.98	17.94	1.46	117.88	2.00	10.29	0.00	0.00
4.34	1.06	19.65	1.52	109.81	2.00	13.30	0.00	0.00
4.36	1.17	21.69	1.46	89.14	2.00	16.55	0.00	0.00
4.38	1.20	22.28	1.51	90.64	2.00	17.44	0.00	0.00
4.40	1.18	21.96	1.64	105.58	2.00	16.97	0.00	0.00
4.42	1.15	21.30	1.82	130.23	2.00	15.96	0.00	0.00
4.44	1.13	20.91	1.98	153.12	2.00	15.34	0.00	0.00
4.46	1.10	20.26	2.19	186.57	2.00	14.30	0.00	0.00
4.48	1.06	19.60	2.45	97.50	2.00	13.22	0.06	0.00
4.50	1.03	18.93	2.70	102.50	2.00	12.06	0.06	0.00
4.52	1.01	18.56	2.79	103.92	2.00	11.40	0.06	0.00
4.54	1.02	18.72	2.64	101.02	2.00	11.69	0.06	0.00
4.56	1.06	19.43	2.43	97.06	2.00	12.93	0.06	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
4.58	1.11	20.57	2.19	183.65	2.00	14.80	0.00	0.00
4.60	1.15	21.20	2.09	163.82	2.00	15.80	0.00	0.00
4.62	1.16	21.49	2.01	150.97	2.00	16.24	0.00	0.00
4.64	1.13	20.90	2.08	166.44	2.00	15.32	0.00	0.00
4.66	1.09	20.01	2.22	194.88	2.00	13.89	0.00	0.00
4.68	1.03	18.91	2.38	95.62	2.00	12.02	0.06	0.00
4.70	0.98	17.94	2.50	97.20	2.00	10.28	0.06	0.00
4.72	0.93	16.98	2.57	97.65	2.00	8.48	0.07	0.00
4.74	0.90	16.29	2.54	96.10	2.00	7.11	0.07	0.00
4.76	0.88	15.91	2.43	93.41	2.00	6.32	0.07	0.00
4.78	0.88	15.86	2.21	88.82	2.00	6.23	0.07	0.00
4.80	0.89	16.07	1.93	82.60	2.00	6.65	0.07	0.00
4.82	0.91	16.44	1.67	163.93	2.00	7.41	0.00	0.00
4.84	0.94	17.11	1.45	126.36	2.00	8.73	0.00	0.00
4.86	0.98	17.85	1.35	106.58	2.00	10.13	0.00	0.00
4.88	1.06	19.09	1.27	87.65	2.00	12.33	0.00	0.00
4.90	1.13	20.19	1.19	72.89	2.00	14.20	0.00	0.00
4.92	1.18	21.00	1.20	69.51	2.00	15.48	0.00	0.00
4.94	1.17	20.93	1.32	81.14	2.00	15.38	0.00	0.00
4.96	1.14	20.56	1.52	104.26	2.00	14.79	0.00	0.00
4.98	1.14	20.61	1.67	120.54	2.00	14.88	0.00	0.00
5.00	1.13	20.59	1.82	138.20	2.00	14.84	0.00	0.00
5.02	1.11	20.28	2.04	169.31	2.00	14.33	0.00	0.00
5.04	1.05	19.10	2.65	102.19	2.00	12.36	0.06	0.00
5.06	0.99	18.03	3.33	114.75	2.00	10.46	0.06	0.00
5.08	0.95	17.20	3.96	125.09	2.00	8.90	0.07	0.00
5.10	0.92	16.53	4.22	128.21	2.00	7.59	0.07	0.00
5.12	0.89	15.96	4.33	128.75	2.00	6.43	0.07	0.00
5.14	0.87	15.57	4.28	127.00	2.00	5.61	0.07	0.00
5.16	0.84	15.02	3.95	120.39	2.00	4.43	0.07	0.00
5.18	0.81	14.46	3.54	112.45	2.00	3.18	0.07	0.00
5.20	0.85	15.09	2.92	102.40	2.00	4.58	0.07	0.00
5.22	0.94	16.85	2.47	95.75	2.00	8.23	0.07	0.00
5.24	1.09	19.45	2.06	181.51	2.00	12.96	0.00	0.00
5.26	1.19	21.09	2.03	159.43	2.00	15.63	0.00	0.00
5.28	1.22	21.58	2.25	182.87	2.00	16.39	0.00	0.00
5.30	1.15	20.64	2.70	105.02	2.00	14.91	0.06	0.00
5.32	1.02	18.43	3.14	111.85	2.00	11.19	0.06	0.00
5.34	0.89	15.94	3.55	115.59	2.00	6.39	0.07	0.00
5.36	0.75	13.17	4.22	120.43	2.00	0.08	0.08	0.00
5.38	0.64	10.96	5.34	128.32	2.00	0.00	0.09	0.00
5.40	0.56	9.37	6.49	134.18	2.00	0.00	0.09	0.00
5.42	0.43	6.84	7.62	130.07	2.00	0.00	0.11	0.00
5.44	0.39	6.04	6.77	118.13	2.00	0.00	0.11	0.00
5.46	0.36	5.39	5.38	102.76	2.00	0.00	0.12	0.00
5.48	0.42	6.52	3.84	93.71	2.00	0.00	0.11	0.00
5.50	0.43	6.67	3.32	88.47	2.00	0.00	0.11	0.00
5.52	0.42	6.53	3.06	84.94	2.00	0.00	0.11	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
5.54	0.40	6.17	3.06	83.72	2.00	0.00	0.11	0.00
5.56	0.38	5.75	3.27	84.47	2.00	0.00	0.12	0.00
5.58	0.36	5.37	3.53	85.71	2.00	0.00	0.12	0.00
5.60	0.34	5.02	3.73	86.12	2.00	0.00	0.12	0.00
5.62	0.33	4.72	3.75	84.85	2.00	0.00	0.13	0.00
5.64	0.32	4.50	3.44	80.77	2.00	0.00	0.13	0.00
5.66	0.31	4.35	3.02	75.91	2.00	0.00	0.13	0.00
5.68	0.31	4.25	2.56	70.66	2.00	0.00	0.13	0.00
5.70	0.31	4.25	2.27	67.43	2.00	0.00	0.13	0.00
5.72	0.32	4.54	1.97	64.90	2.00	0.00	0.13	0.00
5.74	0.35	5.16	1.73	63.48	2.00	0.00	0.12	0.00
5.76	0.41	6.16	1.57	63.54	2.00	0.00	0.11	0.00
5.78	0.48	7.56	1.42	63.51	2.00	0.00	0.10	0.00
5.80	0.57	9.14	1.34	63.77	2.00	0.00	0.10	0.00
5.82	0.67	10.88	1.31	64.75	2.00	0.00	0.09	0.00
5.84	0.76	12.24	1.36	67.00	2.00	0.00	0.08	0.00
5.86	0.81	13.19	1.43	69.21	2.00	0.13	0.08	0.00
5.88	0.84	13.63	1.52	71.69	2.00	1.23	0.08	0.00
5.90	0.85	13.86	1.60	73.70	2.00	1.77	0.08	0.00
5.92	0.85	13.92	1.72	76.64	2.00	1.92	0.08	0.00
5.94	0.86	13.95	1.82	78.81	2.00	1.99	0.08	0.00
5.96	0.86	13.96	1.90	80.71	2.00	2.00	0.08	0.00
5.98	0.86	14.02	1.89	80.57	2.00	2.15	0.08	0.00
6.00	0.86	13.97	1.91	80.93	2.00	2.04	0.08	0.00
6.02	0.85	13.81	1.91	80.81	2.00	1.67	0.08	0.00
6.04	0.85	13.73	1.87	79.91	2.00	1.45	0.08	0.00
6.06	0.86	13.83	1.73	76.85	2.00	1.70	0.08	0.00
6.08	0.89	14.24	1.57	73.41	2.00	2.66	0.07	0.00
6.10	0.92	14.61	1.47	71.27	2.00	3.51	0.07	0.00
6.12	0.94	14.85	1.45	70.82	2.00	4.04	0.07	0.00
6.14	0.94	14.90	1.52	72.67	2.00	4.17	0.07	0.00
6.16	0.93	14.67	1.64	75.32	2.00	3.65	0.07	0.00
6.18	0.92	14.64	1.75	78.06	2.00	3.59	0.07	0.00
6.20	0.94	14.87	1.78	78.72	2.00	4.10	0.07	0.00
6.22	0.99	15.57	1.70	77.47	2.00	5.61	0.07	0.00
6.24	1.01	15.91	1.61	75.57	2.00	6.33	0.07	0.00
6.26	1.01	15.78	1.54	157.20	2.00	6.05	0.00	0.00
6.28	0.98	15.31	1.50	72.38	2.00	5.06	0.07	0.00
6.30	0.96	14.96	1.45	70.99	2.00	4.30	0.07	0.00
6.32	0.95	14.72	1.47	71.37	2.00	3.77	0.07	0.00
6.34	0.94	14.49	1.56	73.29	2.00	3.25	0.07	0.00
6.36	0.92	14.19	1.70	76.41	2.00	2.55	0.08	0.00
6.38	0.90	14.00	1.79	78.38	2.00	2.11	0.08	0.00
6.40	0.90	13.93	1.86	79.92	2.00	1.95	0.08	0.00
6.42	0.91	14.04	1.86	79.94	2.00	2.20	0.08	0.00
6.44	0.93	14.33	1.85	79.93	2.00	2.88	0.07	0.00
6.46	0.96	14.74	1.79	79.00	2.00	3.81	0.07	0.00
6.48	0.99	15.22	1.75	78.43	2.00	4.86	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.50	1.08	16.47	1.64	162.33	2.00	7.46	0.00	0.00
6.52	1.16	17.74	1.56	136.16	2.00	9.93	0.00	0.00
6.54	1.24	18.74	1.49	116.62	2.00	11.72	0.00	0.00
6.56	1.21	18.27	1.53	125.79	2.00	10.90	0.00	0.00
6.58	1.13	17.20	1.69	159.70	2.00	8.90	0.00	0.00
6.60	1.06	16.12	1.75	79.26	2.00	6.75	0.07	0.00
6.62	1.05	15.90	1.66	76.85	2.00	6.31	0.07	0.00
6.64	1.15	17.06	1.20	97.56	2.00	8.63	0.00	0.00
6.66	1.23	18.14	1.05	73.17	2.00	10.65	0.00	0.00
6.68	1.29	18.96	1.02	65.10	2.00	12.11	0.00	0.00
6.70	1.27	18.70	1.18	83.31	2.00	11.66	0.00	0.00
6.72	1.18	17.39	1.25	100.58	2.00	9.26	0.00	0.00
6.74	1.06	15.63	1.26	119.75	2.00	5.74	0.00	0.00
6.76	0.95	13.94	1.21	134.93	2.00	1.97	0.00	0.00
6.78	0.93	13.55	1.12	126.43	2.00	1.02	0.00	0.00
6.80	0.93	13.47	1.03	114.77	2.00	0.83	0.00	0.00
6.82	0.93	13.35	0.95	104.40	2.00	0.53	0.00	0.00
6.84	0.93	13.32	0.87	92.89	2.00	0.45	0.00	0.00
6.86	0.95	13.56	0.79	80.37	2.00	1.06	0.00	0.00
6.88	1.01	14.27	0.74	67.88	2.00	2.75	0.00	0.00
6.90	1.07	15.09	0.69	57.13	2.00	4.58	0.00	0.00
6.92	1.13	16.01	0.65	47.76	2.00	6.53	0.00	0.00
6.94	1.17	16.53	0.62	47.80	2.00	7.58	0.00	0.00
6.96	1.19	16.70	0.59	46.81	2.00	7.93	0.00	0.00
6.98	1.16	16.28	0.57	46.05	2.00	7.09	0.00	0.00
7.00	1.11	15.57	0.59	44.52	2.00	5.62	0.00	0.00
7.02	1.04	14.53	0.65	56.64	2.00	3.34	0.00	0.00
7.04	0.98	13.71	0.71	69.18	2.00	1.41	0.00	0.00
7.06	0.96	13.44	0.72	73.16	2.00	0.75	0.00	0.00
7.08	0.99	13.79	0.68	65.35	2.00	1.60	0.00	0.00
7.10	1.03	14.25	0.64	57.33	2.00	2.70	0.00	0.00
7.12	1.04	14.38	0.65	57.22	2.00	2.98	0.00	0.00
7.14	1.02	14.09	0.74	69.51	2.00	2.31	0.00	0.00
7.16	0.98	13.59	0.88	92.15	2.00	1.13	0.00	0.00
7.18	0.96	13.42	1.01	112.07	2.00	0.72	0.00	0.00
7.20	0.97	13.53	1.14	130.06	2.00	0.98	0.00	0.00
7.22	0.98	13.68	1.24	65.03	2.00	1.34	0.08	0.00
7.24	0.95	13.37	1.37	68.16	2.00	0.60	0.08	0.00
7.26	0.90	12.58	1.36	67.49	2.00	0.00	0.08	0.00
7.28	0.83	11.53	1.30	65.21	2.00	0.00	0.08	0.00
7.30	0.78	10.59	1.12	60.31	2.00	0.00	0.09	0.00
7.32	0.73	9.92	1.01	57.32	2.00	0.00	0.09	0.00
7.34	0.71	9.52	0.93	55.03	2.00	0.00	0.09	0.00
7.36	0.69	9.16	0.86	53.12	2.00	0.00	0.10	0.00
7.38	0.68	8.90	0.79	51.04	2.00	0.00	0.10	0.00
7.40	0.67	8.78	0.72	49.18	2.00	0.00	0.10	0.00
7.42	0.67	8.75	0.68	48.22	2.00	0.00	0.10	0.00
7.44	0.67	8.77	0.66	47.60	2.00	0.00	0.10	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
7.46	0.68	8.86	0.69	48.42	2.00	0.00	0.10	0.00
7.48	0.69	9.00	0.71	49.00	2.00	0.00	0.10	0.00
7.50	0.69	9.03	0.72	49.45	2.00	0.00	0.10	0.00
7.52	0.70	9.12	0.72	49.41	2.00	0.00	0.10	0.00
7.54	0.79	10.37	0.63	96.22	2.00	0.00	0.00	0.00
7.56	1.01	13.39	0.47	44.95	2.00	0.64	0.00	0.00
7.58	1.30	17.20	0.35	38.79	2.00	8.90	0.00	0.00
7.60	1.51	19.91	0.33	19.91	2.00	13.73	0.00	0.00
7.62	1.58	20.76	0.34	20.76	2.00	15.12	0.00	0.00
7.64	1.70	22.39	0.32	22.39	2.00	17.60	0.00	0.00
7.66	1.94	25.37	0.30	25.37	2.00	21.73	0.00	0.00
7.68	2.29	29.86	0.30	29.86	2.00	27.10	0.00	0.00
7.70	2.63	34.23	0.32	34.23	2.00	31.62	0.00	0.00
7.72	2.99	38.67	0.32	38.67	2.00	35.64	0.00	0.00
7.74	3.28	42.19	0.31	42.19	2.00	38.51	0.00	0.00
7.76	3.35	42.98	0.28	42.98	2.00	39.13	0.00	0.00
7.78	3.19	40.69	0.24	40.69	2.00	37.32	0.00	0.00
7.80	2.85	36.48	0.22	36.48	2.00	33.72	0.00	0.00
7.82	2.52	32.39	0.26	32.39	2.00	29.79	0.00	0.00
7.84	2.27	29.50	0.41	29.50	2.00	26.70	0.00	0.00
7.86	2.18	29.06	0.88	59.62	2.00	26.21	0.00	0.00
7.88	2.59	34.65	1.02	66.75	2.00	32.01	0.00	0.00
7.90	3.60	47.36	0.91	71.67	2.00	42.33	0.00	0.00
7.92	5.00	64.18	0.64	81.93	2.00	52.36	0.00	0.00
7.94	6.26	78.89	0.52	93.84	2.00	59.17	0.00	0.00
7.96	7.12	88.58	0.44	88.58	2.00	63.00	0.00	0.00
7.98	7.59	93.43	0.36	93.43	2.00	64.76	0.00	0.00
8.00	7.79	94.83	0.27	94.83	2.00	65.25	0.00	0.00
8.02	7.81	94.43	0.22	94.43	2.00	65.11	0.00	0.00
8.04	7.79	93.98	0.21	93.98	2.00	64.95	0.00	0.00
8.06	7.85	94.82	0.23	94.82	2.00	65.24	0.00	0.00
8.08	8.23	99.15	0.24	99.15	2.00	66.72	0.00	0.00
8.10	8.97	107.40	0.23	107.40	2.00	69.36	0.00	0.00
8.12	10.06	119.80	0.24	119.80	2.00	72.96	0.00	0.00
8.14	11.30	133.53	0.24	133.53	2.00	76.54	0.00	0.00
8.16	12.32	144.66	0.23	144.66	2.00	79.19	0.00	0.00
8.18	12.87	150.52	0.22	150.52	2.00	80.50	0.00	0.00
8.20	13.00	152.02	0.23	152.02	2.00	80.82	0.00	0.00
8.22	13.03	152.64	0.25	152.64	2.00	80.96	0.00	0.00
8.24	13.23	154.80	0.26	154.80	2.00	81.42	0.00	0.00
8.26	13.81	161.27	0.27	161.27	2.00	82.77	0.00	0.00
8.28	14.43	168.24	0.28	168.24	2.00	84.17	0.00	0.00
8.30	14.98	174.51	0.31	174.51	2.00	85.38	0.00	0.00
8.32	15.10	176.20	0.33	176.20	2.00	85.70	0.00	0.00
8.34	15.15	176.64	0.34	176.64	2.00	85.78	0.00	0.00
8.36	15.17	176.52	0.33	176.52	2.00	85.76	0.00	0.00
8.38	15.28	177.25	0.31	177.25	2.00	85.89	0.00	0.00
8.40	15.36	178.01	0.32	178.01	2.00	86.03	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.42	15.47	178.95	0.31	178.95	2.00	86.21	0.00	0.00
8.44	15.48	179.20	0.32	179.20	2.00	86.25	0.00	0.00
8.46	15.58	179.88	0.31	179.88	2.00	86.38	0.00	0.00
8.48	15.53	179.09	0.31	179.09	2.00	86.23	0.00	0.00
8.50	15.52	178.56	0.30	178.56	2.00	86.14	0.00	0.00
8.52	15.46	177.72	0.30	177.72	2.00	85.98	0.00	0.00
8.54	15.45	177.38	0.29	177.38	2.00	85.92	0.00	0.00
8.56	15.37	176.05	0.28	176.05	2.00	85.67	0.00	0.00
8.58	14.97	171.64	0.29	171.64	2.00	84.83	0.00	0.00
8.60	14.11	162.84	0.34	162.84	2.00	83.09	0.00	0.00
8.62	13.10	151.63	0.35	151.63	2.00	80.74	0.00	0.00
8.64	12.29	142.29	0.34	142.29	2.00	78.64	0.00	0.00
8.66	11.90	137.35	0.30	137.35	2.00	77.48	0.00	0.00
8.68	11.77	135.87	0.30	135.87	2.00	77.12	0.00	0.00
8.70	11.65	134.28	0.30	134.28	2.00	76.73	0.00	0.00
8.72	11.52	132.43	0.27	132.43	2.00	76.27	0.00	0.00
8.74	11.34	130.14	0.26	130.14	2.00	75.70	0.00	0.00
8.76	11.20	129.06	0.31	129.06	2.00	75.42	0.00	0.00
8.78	11.30	130.51	0.35	130.51	2.00	75.79	0.00	0.00
8.80	11.64	133.93	0.34	133.93	2.00	76.64	0.00	0.00
8.82	11.86	136.09	0.32	136.09	2.00	77.17	0.00	0.00
8.84	11.53	132.82	0.37	132.82	2.00	76.37	0.00	0.00
8.86	11.05	127.72	0.41	127.72	2.00	75.08	0.00	0.00
8.88	10.50	121.49	0.42	121.49	2.00	73.43	0.00	0.00
8.90	10.24	118.05	0.37	118.05	2.00	72.48	0.00	0.00
8.92	9.98	115.26	0.39	115.26	2.00	71.69	0.00	0.00
8.94	10.15	117.05	0.40	117.05	2.00	72.20	0.00	0.00
8.96	10.89	124.93	0.37	124.93	2.00	74.35	0.00	0.00
8.98	12.03	137.00	0.33	137.00	2.00	77.39	0.00	0.00
9.00	13.76	155.07	0.28	155.07	2.00	81.48	0.00	0.00
9.02	16.23	180.99	0.24	180.99	2.00	86.58	0.00	0.00
9.04	18.50	204.49	0.21	204.49	2.00	90.61	0.00	0.00
9.06	20.03	220.34	0.20	220.34	2.00	93.08	0.00	0.00
9.08	19.12	210.30	0.19	210.30	2.00	91.54	0.00	0.00
9.10	18.25	201.28	0.21	201.28	2.00	90.09	0.00	0.00
9.12	16.79	185.92	0.23	185.92	2.00	87.47	0.00	0.00
9.14	16.40	181.97	0.25	181.97	2.00	86.76	0.00	0.00
9.16	15.55	172.48	0.23	172.48	2.00	84.99	0.00	0.00
9.18	14.84	165.91	0.32	165.91	2.00	83.71	0.00	0.00
9.20	14.13	158.91	0.39	158.91	2.00	82.29	0.00	0.00
9.22	13.42	151.67	0.47	151.67	2.00	80.75	0.00	0.00
9.24	12.84	145.03	0.45	145.03	2.00	79.27	0.00	0.00
9.26	12.43	140.45	0.45	140.45	2.00	78.21	0.00	0.00
9.28	11.92	134.96	0.50	134.96	2.00	76.90	0.00	0.00
9.30	10.91	123.97	0.55	123.97	2.00	74.09	0.00	0.00
9.32	10.34	117.76	0.59	120.91	2.00	72.39	0.00	0.00
9.34	11.17	127.20	0.65	130.21	2.00	74.94	0.00	0.00
9.36	12.83	145.97	0.75	145.97	2.00	79.48	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
9.38	14.02	159.84	0.90	168.11	2.00	82.48	0.00	0.00
9.40	14.18	162.16	1.04	180.29	2.00	82.96	0.00	0.00
9.42	14.13	161.99	1.18	188.25	2.00	82.92	0.00	0.00
9.44	14.28	163.32	1.15	187.81	2.00	83.19	0.00	0.00
9.46	14.36	163.70	1.09	184.77	2.00	83.27	0.00	0.00
9.48	14.14	160.34	0.95	172.85	2.00	82.58	0.00	0.00
9.50	13.30	150.68	0.92	164.58	2.00	80.53	0.00	0.00
9.52	12.10	136.78	0.83	150.37	2.00	77.34	0.00	0.00
9.54	10.83	122.60	0.85	141.61	2.00	73.73	0.00	0.00
9.56	9.53	108.38	0.96	132.42	2.00	69.66	0.00	0.00
9.58	8.30	95.42	1.40	126.99	2.00	65.45	0.00	0.00
9.60	7.78	90.08	1.91	133.62	2.00	63.55	0.00	0.00
9.62	8.19	95.19	2.27	148.33	2.00	65.37	0.00	0.00
9.64	9.25	107.22	2.33	160.83	2.00	69.30	0.00	0.00
9.66	10.34	119.52	2.35	173.22	2.00	72.88	0.00	0.00
9.68	11.45	132.03	2.39	186.56	2.00	76.17	0.00	0.00
9.70	12.68	145.80	2.44	202.02	2.00	79.45	0.00	0.00
9.72	13.80	158.26	2.44	215.00	2.00	82.15	0.00	0.00
9.74	14.67	167.84	2.47	225.81	2.00	84.09	0.00	0.00
9.76	15.22	173.97	2.59	235.31	2.00	85.28	0.00	0.00
9.78	15.64	178.66	2.71	243.32	2.00	86.15	0.00	0.00
9.80	15.75	179.75	2.84	248.18	2.00	86.36	0.00	0.00
9.82	15.74	179.47	2.93	250.25	2.00	86.30	0.00	0.00
9.84	15.88	180.83	2.99	253.49	2.00	86.55	0.00	0.00
9.86	16.25	184.79	3.07	260.20	2.00	87.27	0.00	0.00
9.88	16.88	191.60	3.13	269.15	2.00	88.46	0.00	0.00
9.90	17.63	199.78	3.16	278.80	2.00	89.84	0.00	0.00
9.92	19.12	215.70	3.03	291.92	2.00	92.37	0.00	0.00
9.94	20.71	232.78	2.88	306.70	2.00	94.89	0.00	0.00
9.96	22.15	248.06	2.78	321.10	2.00	96.99	0.00	0.00
9.98	22.73	254.05	2.83	328.91	2.00	97.77	0.00	0.00
10.00	22.64	252.94	2.94	330.73	2.00	97.63	0.00	0.00
10.02	22.48	250.93	3.06	331.49	2.00	97.37	0.00	0.00
10.04	21.43	239.37	3.29	325.42	2.00	95.81	0.00	0.00
10.06	21.75	242.55	3.32	329.84	2.00	96.25	0.00	0.00
10.08	22.11	246.16	3.40	336.17	2.00	96.73	0.00	0.00
10.10	23.35	259.28	3.32	348.23	2.00	98.45	0.00	0.00
10.12	23.58	261.42	3.38	352.46	2.00	98.72	0.00	0.00
10.14	23.82	263.59	3.40	355.62	2.00	98.99	0.00	0.00
10.16	24.06	265.84	3.44	359.10	2.00	99.27	0.00	0.00
10.18	24.17	266.62	3.48	361.33	2.00	99.37	0.00	0.00
10.20	24.20	266.55	3.51	362.23	2.00	99.36	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)

Total estimated displacement: 0.49

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
0.90	0.02	0.18	54.25	9.82	4.06	0.02	0.05
0.92	0.06	0.94	48.66	45.85	3.99	0.02	0.27
0.94	0.10	1.77	35.64	63.18	3.81	0.53	0.50
0.96	0.13	2.25	34.35	77.39	3.79	0.78	0.62
0.98	0.11	1.95	40.95	79.72	3.89	0.88	0.52
1.00	0.17	3.14	25.54	80.17	3.61	0.64	0.82
1.02	0.92	17.97	3.86	69.31	2.61	0.76	0.76
1.04	1.79	35.09	1.79	62.98	2.26	0.14	0.66
1.06	2.75	53.93	1.34	72.36	2.04	0.31	0.69
1.08	3.11	61.10	1.28	78.50	1.97	0.52	0.70
1.10	3.27	64.33	1.27	81.51	1.95	0.66	0.71
1.12	3.16	62.10	1.30	80.53	1.99	0.61	0.71
1.14	2.77	54.31	1.41	76.34	2.09	0.43	0.70
1.16	2.42	47.44	1.63	77.20	2.21	0.46	0.70
1.18	2.14	41.85	1.94	81.22	2.30	0.65	0.71
1.20	1.99	38.86	2.17	84.47	2.36	0.72	0.72
1.22	1.80	35.27	2.50	88.21	2.42	0.72	0.72
1.24	1.60	31.22	3.00	93.73	2.50	0.73	0.73
1.26	1.41	27.38	3.60	98.59	2.58	0.80	0.80
1.28	1.27	24.80	4.04	100.17	2.63	0.85	0.85
1.30	1.20	23.39	4.23	98.99	2.65	0.86	0.86
1.32	1.18	22.91	4.19	96.11	2.65	0.85	0.85
1.34	1.15	22.34	4.21	93.99	2.65	0.85	0.85
1.36	1.07	20.82	4.47	93.03	2.68	0.87	0.87
1.38	0.98	19.01	4.92	93.51	2.72	0.74	0.74
1.40	0.89	17.21	5.52	94.91	2.77	0.74	0.74
1.42	0.85	16.32	5.78	94.35	2.79	0.74	0.74
1.44	0.83	15.89	5.81	92.33	2.80	0.73	0.73
1.46	0.82	15.84	5.71	90.50	2.79	0.73	0.73
1.48	0.85	16.25	5.36	87.10	2.76	0.72	0.72
1.50	0.87	16.78	4.97	83.46	2.72	0.71	0.71
1.52	0.89	17.16	4.64	79.61	2.69	0.85	0.85
1.54	0.90	17.26	4.52	77.99	2.68	0.84	0.84
1.56	0.89	17.18	4.56	78.37	2.69	0.84	0.84
1.58	0.87	16.78	4.64	77.78	2.69	0.84	0.84
1.60	0.86	16.46	4.82	79.36	2.71	0.55	0.71
1.62	0.85	16.26	4.91	79.85	2.72	0.58	0.71
1.64	0.86	16.42	4.98	81.84	2.73	0.68	0.71
1.66	0.87	16.70	4.90	81.82	2.72	0.68	0.71
1.68	0.88	16.79	4.90	82.26	2.72	0.71	0.71
1.70	0.87	16.66	4.99	83.15	2.73	0.71	0.71
1.72	0.85	16.20	5.23	84.77	2.75	0.72	0.72
1.74	0.82	15.75	5.50	86.69	2.77	0.72	0.72
1.76	0.68	12.88	7.26	93.59	2.90	0.74	0.74
1.78	0.71	13.58	7.00	95.04	2.89	0.74	0.74
1.80	0.74	13.98	6.88	96.14	2.88	0.74	0.74
1.82	0.87	16.65	5.56	92.53	2.78	0.73	0.73
1.84	0.82	15.71	5.96	93.67	2.81	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
1.86	0.79	15.10	6.23	94.15	2.83	0.74	0.74
1.88	0.77	14.71	6.41	94.27	2.84	0.74	0.74
1.90	0.74	14.12	6.78	95.75	2.87	0.74	0.74
1.92	0.71	13.45	7.23	97.26	2.90	0.74	0.74
1.94	0.68	12.75	7.65	97.54	2.93	0.74	0.74
1.96	0.66	12.49	7.72	96.45	2.93	0.74	0.74
1.98	0.66	12.34	7.81	96.36	2.94	0.74	0.74
2.00	0.66	12.45	7.66	95.37	2.93	0.74	0.74
2.02	0.67	12.58	7.65	96.22	2.93	0.74	0.74
2.04	0.68	12.87	7.45	95.82	2.92	0.74	0.74
2.06	0.70	13.12	7.34	96.22	2.91	0.74	0.74
2.08	0.70	13.27	7.12	94.50	2.89	0.74	0.74
2.10	0.70	13.23	7.07	93.59	2.89	0.74	0.74
2.12	0.69	12.93	7.29	94.25	2.91	0.74	0.74
2.14	0.66	12.44	7.73	96.12	2.93	0.74	0.74
2.16	0.64	11.93	8.24	98.38	2.97	0.75	0.75
2.18	0.63	11.69	8.61	100.66	2.99	0.75	0.75
2.20	0.65	12.17	8.37	101.78	2.97	0.75	0.75
2.22	0.69	13.01	7.81	101.65	2.94	0.75	0.75
2.24	0.74	13.93	7.19	100.14	2.90	0.75	0.75
2.26	0.77	14.42	6.82	98.38	2.87	0.75	0.75
2.28	0.78	14.63	6.69	97.87	2.86	0.74	0.74
2.30	0.78	14.61	6.73	98.29	2.87	0.74	0.74
2.32	0.76	14.28	6.91	98.70	2.88	0.75	0.75
2.34	0.75	14.04	6.98	98.01	2.88	0.74	0.74
2.36	0.75	14.00	6.87	96.26	2.88	0.74	0.74
2.38	0.76	14.36	6.51	93.49	2.85	0.74	0.74
2.40	0.78	14.70	6.14	90.22	2.82	0.73	0.73
2.42	0.77	14.54	6.04	87.89	2.82	0.72	0.72
2.44	0.75	13.98	6.21	86.77	2.83	0.72	0.72
2.46	0.70	13.05	6.69	87.37	2.86	0.72	0.72
2.48	0.66	12.28	7.22	88.65	2.90	0.73	0.73
2.50	0.62	11.52	7.92	91.25	2.95	0.73	0.73
2.52	0.59	10.93	8.59	93.88	2.99	0.74	0.74
2.54	0.59	10.84	8.77	95.02	3.00	0.74	0.74
2.56	0.61	11.24	8.35	93.82	2.97	0.74	0.74
2.58	0.64	11.86	7.68	91.06	2.93	0.73	0.73
2.60	0.66	12.26	7.12	87.35	2.89	0.72	0.72
2.62	0.68	12.59	6.73	84.68	2.87	0.72	0.72
2.64	0.70	13.04	6.27	81.73	2.83	0.67	0.71
2.66	0.72	13.36	6.07	81.03	2.82	0.64	0.71
2.68	0.72	13.39	6.03	80.69	2.81	0.62	0.71
2.70	0.71	13.12	6.17	80.95	2.82	0.63	0.71
2.72	0.69	12.83	6.26	80.31	2.83	0.60	0.71
2.74	0.68	12.49	6.41	80.02	2.84	0.58	0.71
2.76	0.66	12.23	6.54	80.06	2.85	0.59	0.71
2.78	0.66	12.20	6.53	79.64	2.85	0.57	0.71
2.80	0.68	12.48	6.31	78.78	2.84	0.53	0.70

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
2.82	0.69	12.72	6.11	77.72	2.82	0.48	0.70
2.84	0.69	12.80	6.06	77.60	2.82	0.48	0.70
2.86	0.68	12.54	6.22	78.02	2.83	0.50	0.70
2.88	0.67	12.33	6.38	78.64	2.84	0.52	0.70
2.90	0.66	12.16	6.47	78.73	2.85	0.53	0.70
2.92	0.65	12.00	6.53	78.40	2.85	0.51	0.70
2.94	0.64	11.68	6.74	78.72	2.87	0.53	0.70
2.96	0.61	11.18	7.17	80.12	2.90	0.59	0.71
2.98	0.49	8.85	9.61	85.05	3.05	0.41	0.95
3.00	0.47	8.36	10.20	85.23	3.08	0.43	0.90
3.02	0.45	7.92	10.65	84.36	3.10	0.38	0.85
3.04	0.51	9.19	8.78	80.69	3.00	0.62	0.71
3.06	0.49	8.70	9.42	81.97	3.04	0.37	0.92
3.08	0.48	8.44	10.08	85.12	3.07	0.39	0.89
3.10	0.49	8.64	10.27	88.76	3.08	0.44	0.91
3.12	0.52	9.32	9.84	91.69	3.06	0.49	0.98
3.14	0.57	10.21	9.06	92.57	3.02	0.51	1.07
3.16	0.60	10.95	8.42	92.23	2.98	0.73	0.73
3.18	0.62	11.31	8.11	91.75	2.96	0.73	0.73
3.20	0.64	11.59	7.92	91.75	2.95	0.73	0.73
3.22	0.67	12.15	7.53	91.44	2.92	0.73	0.73
3.24	0.71	13.12	6.93	90.87	2.88	0.73	0.73
3.26	0.80	14.80	6.02	89.04	2.81	0.73	0.73
3.28	0.88	16.42	5.33	87.48	2.76	0.72	0.72
3.30	0.96	17.88	4.81	86.10	2.71	0.72	0.72
3.32	0.98	18.26	4.78	87.23	2.71	0.72	0.72
3.34	0.97	18.07	4.94	89.28	2.72	0.73	0.73
3.36	0.93	17.31	5.29	91.57	2.75	0.73	0.73
3.38	0.90	16.80	5.54	92.99	2.77	0.73	0.73
3.40	0.91	16.92	5.48	92.70	2.77	0.73	0.73
3.42	0.95	17.70	5.03	89.11	2.73	0.73	0.73
3.44	1.00	18.67	4.51	84.25	2.68	0.85	0.85
3.46	1.04	19.43	4.08	79.25	2.64	0.80	0.80
3.48	1.05	19.74	3.84	75.90	2.61	0.77	0.77
3.50	1.05	19.56	3.76	73.64	2.60	0.76	0.76
3.52	1.02	19.07	3.80	72.46	2.61	0.76	0.76
3.54	1.00	18.65	3.97	74.02	2.62	0.78	0.78
3.56	0.99	18.50	4.09	75.71	2.64	0.79	0.79
3.58	1.00	18.59	4.17	77.45	2.65	0.81	0.81
3.60	1.02	18.98	4.12	78.12	2.64	0.80	0.80
3.62	1.03	19.21	4.09	78.51	2.64	0.80	0.80
3.64	1.04	19.44	4.03	78.34	2.63	0.80	0.80
3.66	1.03	19.25	4.04	77.87	2.63	0.80	0.80
3.68	1.02	19.09	4.05	77.29	2.63	0.80	0.80
3.70	0.99	18.43	4.21	77.53	2.65	0.81	0.81
3.72	0.95	17.58	4.50	79.03	2.68	0.84	0.84
3.74	0.88	16.22	5.05	81.92	2.73	0.69	0.71
3.76	0.81	14.92	5.72	85.37	2.79	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
3.78	0.75	13.68	6.43	87.98	2.84	0.72	0.72
3.80	0.71	12.87	6.93	89.15	2.88	0.73	0.73
3.82	0.70	12.65	6.98	88.30	2.88	0.73	0.73
3.84	0.71	12.91	6.61	85.31	2.86	0.72	0.72
3.86	0.73	13.25	6.20	82.13	2.83	0.70	0.71
3.88	0.74	13.48	5.78	77.92	2.79	0.49	0.70
3.90	0.75	13.62	5.52	75.18	2.77	0.39	0.70
3.92	0.77	14.06	5.11	71.90	2.74	0.30	0.69
3.94	0.80	14.54	4.82	70.14	2.71	0.26	0.68
3.96	0.82	14.97	4.60	68.78	2.69	0.82	0.82
3.98	0.84	15.32	4.47	68.44	2.68	0.81	0.81
4.00	0.85	15.56	4.46	69.37	2.68	0.81	0.81
4.02	0.86	15.68	4.52	70.84	2.68	0.82	0.82
4.04	0.84	15.39	4.75	73.12	2.70	0.33	0.69
4.06	0.82	14.87	5.09	75.65	2.74	0.41	0.70
4.08	0.79	14.30	5.47	78.17	2.77	0.50	0.70
4.10	0.77	13.90	5.67	78.83	2.79	0.53	0.70
4.12	0.76	13.75	5.67	78.04	2.79	0.50	0.70
4.14	0.76	13.69	5.56	76.05	2.78	0.42	0.70
4.16	0.77	13.96	5.28	73.76	2.75	0.35	0.69
4.18	0.79	14.34	4.97	71.27	2.72	0.28	0.69
4.20	0.72	12.83	5.31	68.17	2.76	0.22	0.68
4.22	0.63	11.04	5.95	65.70	2.81	0.18	0.67
4.24	0.66	11.79	5.47	64.43	2.77	0.16	0.67
4.26	0.80	14.47	4.48	64.89	2.68	0.80	0.80
4.28	0.94	17.15	3.80	65.17	2.61	0.74	0.74
4.30	0.93	17.12	4.02	68.76	2.63	0.77	0.77
4.32	0.98	17.94	4.02	72.16	2.63	0.78	0.78
4.34	1.06	19.65	3.80	74.61	2.61	0.77	0.77
4.36	1.17	21.69	3.40	73.83	2.56	0.73	0.73
4.38	1.20	22.28	3.39	75.57	2.56	0.73	0.73
4.40	1.18	21.96	3.60	79.03	2.58	0.76	0.76
4.42	1.15	21.30	3.92	83.51	2.62	0.80	0.80
4.44	1.13	20.91	4.18	87.43	2.65	0.83	0.83
4.46	1.10	20.26	4.54	91.97	2.68	0.87	0.87
4.48	1.06	19.60	4.97	97.50	2.72	0.74	0.74
4.50	1.03	18.93	5.42	102.50	2.76	0.75	0.75
4.52	1.01	18.56	5.60	103.92	2.78	0.76	0.76
4.54	1.02	18.72	5.40	101.02	2.76	0.75	0.75
4.56	1.06	19.43	4.99	97.06	2.73	0.74	0.74
4.58	1.11	20.57	4.49	92.34	2.68	0.87	0.87
4.60	1.15	21.20	4.26	90.37	2.66	0.84	0.84
4.62	1.16	21.49	4.12	88.53	2.64	0.83	0.83
4.64	1.13	20.90	4.31	90.05	2.66	0.85	0.85
4.66	1.09	20.01	4.63	92.68	2.69	0.88	0.88
4.68	1.03	18.91	5.06	95.62	2.73	0.74	0.74
4.70	0.98	17.94	5.42	97.20	2.76	0.74	0.74
4.72	0.93	16.98	5.75	97.65	2.79	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
4.74	0.90	16.29	5.90	96.10	2.80	0.74	0.74
4.76	0.88	15.91	5.87	93.41	2.80	0.74	0.74
4.78	0.88	15.86	5.60	88.82	2.78	0.73	0.73
4.80	0.89	16.07	5.14	82.60	2.74	0.71	0.71
4.82	0.91	16.44	4.67	76.81	2.70	0.85	0.85
4.84	0.94	17.11	4.19	71.77	2.65	0.79	0.79
4.86	0.98	17.85	3.89	69.39	2.62	0.76	0.76
4.88	1.06	19.09	3.54	67.57	2.57	0.72	0.72
4.90	1.13	20.19	3.25	65.68	2.54	0.32	0.69
4.92	1.18	21.00	3.16	66.25	2.52	0.24	0.68
4.94	1.17	20.93	3.33	69.80	2.55	0.64	0.71
4.96	1.14	20.56	3.67	75.39	2.59	0.76	0.76
4.98	1.14	20.61	3.86	79.53	2.61	0.78	0.78
5.00	1.13	20.59	4.05	83.46	2.63	0.81	0.81
5.02	1.11	20.28	4.38	88.88	2.67	0.85	0.85
5.04	1.05	19.10	5.35	102.19	2.76	0.75	0.75
5.06	0.99	18.03	6.36	114.75	2.84	0.77	0.77
5.08	0.95	17.20	7.27	125.09	2.90	0.79	0.79
5.10	0.92	16.53	7.76	128.21	2.94	0.80	0.80
5.12	0.89	15.96	8.07	128.75	2.96	0.80	0.80
5.14	0.87	15.57	8.16	127.00	2.96	0.79	0.79
5.16	0.84	15.02	8.01	120.39	2.95	0.78	0.78
5.18	0.81	14.46	7.78	112.45	2.94	0.77	0.77
5.20	0.85	15.09	6.79	102.40	2.87	0.75	0.75
5.22	0.94	16.85	5.68	95.75	2.79	0.74	0.74
5.24	1.09	19.45	4.56	88.73	2.69	0.87	0.87
5.26	1.19	21.09	4.23	89.20	2.65	0.84	0.84
5.28	1.22	21.58	4.41	95.09	2.67	0.87	0.87
5.30	1.15	20.64	5.09	105.02	2.74	0.76	0.76
5.32	1.02	18.43	6.07	111.85	2.82	0.77	0.77
5.34	0.89	15.94	7.25	115.59	2.90	0.78	0.78
5.36	0.75	13.17	9.15	120.43	3.02	0.63	0.97
5.38	0.64	10.96	11.71	128.32	3.15	0.69	0.81
5.40	0.56	9.37	14.32	134.18	3.27	0.76	0.69
5.42	0.43	6.84	19.02	130.07	3.43	0.76	0.50
5.44	0.39	6.04	19.56	118.13	3.45	0.48	0.44
5.46	0.36	5.39	19.07	102.76	3.43	0.37	0.39
5.48	0.42	6.52	14.38	93.71	3.27	0.32	0.47
5.50	0.43	6.67	13.26	88.47	3.22	0.28	0.48
5.52	0.42	6.53	13.01	84.94	3.21	0.25	0.47
5.54	0.40	6.17	13.56	83.72	3.24	0.24	0.45
5.56	0.38	5.75	14.69	84.47	3.28	0.24	0.41
5.58	0.36	5.37	15.96	85.71	3.33	0.26	0.39
5.60	0.34	5.02	17.14	86.12	3.37	0.26	0.36
5.62	0.33	4.72	17.97	84.85	3.40	0.25	0.34
5.64	0.32	4.50	17.97	80.77	3.40	0.23	0.32
5.66	0.31	4.35	17.45	75.91	3.38	0.17	0.31
5.68	0.31	4.25	16.61	70.66	3.35	0.15	0.30

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
5.70	0.31	4.25	15.87	67.43	3.33	0.14	0.30
5.72	0.32	4.54	14.28	64.90	3.26	0.12	0.32
5.74	0.35	5.16	12.31	63.48	3.18	0.12	0.37
5.76	0.41	6.16	10.31	63.54	3.08	0.12	0.44
5.78	0.48	7.56	8.40	63.51	2.98	0.15	0.67
5.80	0.57	9.14	6.98	63.77	2.88	0.15	0.67
5.82	0.67	10.88	5.95	64.75	2.81	0.17	0.67
5.84	0.76	12.24	5.47	67.00	2.77	0.20	0.68
5.86	0.81	13.19	5.25	69.21	2.75	0.24	0.68
5.88	0.84	13.63	5.26	71.69	2.75	0.29	0.69
5.90	0.85	13.86	5.32	73.70	2.76	0.35	0.69
5.92	0.85	13.92	5.51	76.64	2.77	0.44	0.70
5.94	0.86	13.95	5.65	78.81	2.78	0.53	0.70
5.96	0.86	13.96	5.78	80.71	2.79	0.62	0.71
5.98	0.86	14.02	5.75	80.57	2.79	0.61	0.71
6.00	0.86	13.97	5.79	80.93	2.80	0.63	0.71
6.02	0.85	13.81	5.85	80.81	2.80	0.62	0.71
6.04	0.85	13.73	5.82	79.91	2.80	0.58	0.71
6.06	0.86	13.83	5.56	76.85	2.78	0.45	0.70
6.08	0.89	14.24	5.16	73.41	2.74	0.34	0.69
6.10	0.92	14.61	4.88	71.27	2.72	0.28	0.69
6.12	0.94	14.85	4.77	70.82	2.71	0.27	0.69
6.14	0.94	14.90	4.88	72.67	2.72	0.32	0.69
6.16	0.93	14.67	5.13	75.32	2.74	0.40	0.70
6.18	0.92	14.64	5.33	78.06	2.76	0.50	0.70
6.20	0.94	14.87	5.29	78.72	2.75	0.52	0.70
6.22	0.99	15.57	4.98	77.47	2.73	0.47	0.70
6.24	1.01	15.91	4.75	75.57	2.70	0.40	0.70
6.26	1.01	15.78	4.67	73.68	2.70	0.84	0.84
6.28	0.98	15.31	4.73	72.38	2.70	0.31	0.69
6.30	0.96	14.96	4.74	70.99	2.70	0.28	0.69
6.32	0.95	14.72	4.85	71.37	2.71	0.29	0.69
6.34	0.94	14.49	5.06	73.29	2.73	0.33	0.69
6.36	0.92	14.19	5.38	76.41	2.76	0.43	0.70
6.38	0.90	14.00	5.60	78.38	2.78	0.51	0.70
6.40	0.90	13.93	5.74	79.92	2.79	0.58	0.71
6.42	0.91	14.04	5.69	79.94	2.79	0.58	0.71
6.44	0.93	14.33	5.58	79.93	2.78	0.58	0.71
6.46	0.96	14.74	5.36	79.00	2.76	0.54	0.70
6.48	0.99	15.22	5.15	78.43	2.74	0.51	0.70
6.50	1.08	16.47	4.65	76.61	2.69	0.84	0.84
6.52	1.16	17.74	4.25	75.45	2.65	0.81	0.81
6.54	1.24	18.74	3.95	73.92	2.62	0.78	0.78
6.56	1.21	18.27	4.09	74.74	2.64	0.79	0.79
6.58	1.13	17.20	4.55	78.32	2.69	0.84	0.84
6.60	1.06	16.12	4.92	79.26	2.72	0.55	0.71
6.62	1.05	15.90	4.83	76.85	2.71	0.45	0.70
6.64	1.15	17.06	3.83	65.30	2.61	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
6.66	1.23	18.14	3.38	61.34	2.55	0.33	0.69
6.68	1.29	18.96	3.20	60.59	2.53	0.17	0.67
6.70	1.27	18.70	3.50	65.49	2.57	0.71	0.71
6.72	1.18	17.39	3.84	66.83	2.61	0.75	0.75
6.74	1.06	15.63	4.25	66.42	2.65	0.78	0.78
6.76	0.95	13.94	4.62	64.44	2.69	0.81	0.81
6.78	0.93	13.55	4.56	61.79	2.69	0.79	0.79
6.80	0.93	13.47	4.42	59.47	2.67	0.77	0.77
6.82	0.93	13.35	4.28	57.15	2.66	0.76	0.76
6.84	0.93	13.32	4.11	54.72	2.64	0.73	0.73
6.86	0.95	13.56	3.88	52.58	2.61	0.60	0.71
6.88	1.01	14.27	3.58	51.17	2.58	0.21	0.68
6.90	1.07	15.09	3.31	49.91	2.55	0.09	0.65
6.92	1.13	16.01	3.04	48.72	2.51	0.04	0.62
6.94	1.17	16.53	2.89	47.80	2.49	0.05	0.62
6.96	1.19	16.70	2.80	46.81	2.47	0.04	0.62
6.98	1.16	16.28	2.83	46.05	2.48	0.04	0.62
7.00	1.11	15.57	3.00	46.70	2.50	0.04	0.62
7.02	1.04	14.53	3.34	48.56	2.55	0.09	0.65
7.04	0.98	13.71	3.66	50.18	2.59	0.24	0.68
7.06	0.96	13.44	3.76	50.54	2.60	0.33	0.69
7.08	0.99	13.79	3.58	49.36	2.58	0.17	0.67
7.10	1.03	14.25	3.38	48.15	2.55	0.09	0.65
7.12	1.04	14.38	3.37	48.39	2.55	0.09	0.65
7.14	1.02	14.09	3.63	51.16	2.59	0.24	0.68
7.16	0.98	13.59	4.07	55.29	2.64	0.73	0.73
7.18	0.96	13.42	4.38	58.84	2.67	0.77	0.77
7.20	0.97	13.53	4.61	62.38	2.69	0.80	0.80
7.22	0.98	13.68	4.75	65.03	2.70	0.17	0.67
7.24	0.95	13.37	5.10	68.16	2.74	0.22	0.68
7.26	0.90	12.58	5.36	67.49	2.76	0.21	0.68
7.28	0.83	11.53	5.65	65.21	2.78	0.17	0.67
7.30	0.78	10.59	5.70	60.31	2.79	0.12	0.66
7.32	0.73	9.92	5.78	57.32	2.79	0.09	0.65
7.34	0.71	9.52	5.78	55.03	2.79	0.08	0.64
7.36	0.69	9.16	5.80	53.12	2.80	0.07	0.64
7.38	0.68	8.90	5.74	51.04	2.79	0.06	0.63
7.40	0.67	8.78	5.60	49.18	2.78	0.05	0.62
7.42	0.67	8.75	5.51	48.22	2.77	0.05	0.62
7.44	0.67	8.77	5.43	47.60	2.76	0.04	0.62
7.46	0.68	8.86	5.46	48.42	2.77	0.05	0.62
7.48	0.69	9.00	5.45	49.00	2.77	0.05	0.62
7.50	0.69	9.03	5.47	49.45	2.77	0.05	0.62
7.52	0.70	9.12	5.42	49.41	2.76	0.05	0.62
7.54	0.79	10.37	4.55	47.20	2.69	0.74	0.74
7.56	1.01	13.39	3.17	42.46	2.53	0.04	0.62
7.58	1.30	17.20	2.26	38.79	2.38	0.03	0.62
7.60	1.51	19.91	1.00	19.91	2.30	0.02	0.62

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.62	1.58	20.76	1.00	20.76	2.29	0.02	0.62
7.64	1.70	22.39	1.00	22.39	2.25	0.02	0.62
7.66	1.94	25.37	1.00	25.37	2.19	0.02	0.62
7.68	2.29	29.86	1.00	29.86	2.12	0.02	0.62
7.70	2.63	34.23	1.00	34.23	2.07	0.02	0.62
7.72	2.99	38.67	1.00	38.67	2.03	0.03	0.62
7.74	3.28	42.19	1.00	42.19	1.98	0.03	0.62
7.76	3.35	42.98	1.00	42.98	1.96	0.03	0.62
7.78	3.19	40.69	1.00	40.69	1.96	0.03	0.62
7.80	2.85	36.48	1.00	36.48	2.00	0.02	0.62
7.82	2.52	32.39	1.00	32.39	2.07	0.02	0.62
7.84	2.27	29.50	1.00	29.50	2.18	0.02	0.62
7.86	2.18	29.06	2.05	59.62	2.33	0.11	0.66
7.88	2.59	34.65	1.93	66.75	2.30	0.20	0.68
7.90	3.60	47.36	1.51	71.67	2.15	0.29	0.69
7.92	5.00	64.18	1.28	81.93	1.96	0.69	0.71
7.94	6.26	78.89	1.19	93.84	1.84	0.74	0.74
7.96	7.12	88.58	1.00	88.58	1.75	0.73	0.73
7.98	7.59	93.43	1.00	93.43	1.69	0.74	0.74
8.00	7.79	94.83	1.00	94.83	1.63	0.74	0.74
8.02	7.81	94.43	1.00	94.43	1.60	0.74	0.74
8.04	7.79	93.98	1.00	93.98	1.59	0.74	0.74
8.06	7.85	94.82	1.00	94.82	1.60	0.74	0.74
8.08	8.23	99.15	1.00	99.15	1.59	0.75	0.75
8.10	8.97	107.40	1.00	107.40	1.56	0.76	0.76
8.12	10.06	119.80	1.00	119.80	1.52	0.78	0.78
8.14	11.30	133.53	1.00	133.53	1.47	0.80	0.80
8.16	12.32	144.66	1.00	144.66	1.43	0.82	0.82
8.18	12.87	150.52	1.00	150.52	1.41	0.83	0.83
8.20	13.00	152.02	1.00	152.02	1.42	0.83	0.83
8.22	13.03	152.64	1.00	152.64	1.43	0.83	0.83
8.24	13.23	154.80	1.00	154.80	1.43	0.83	0.83
8.26	13.81	161.27	1.00	161.27	1.42	0.84	0.84
8.28	14.43	168.24	1.00	168.24	1.42	0.85	0.85
8.30	14.98	174.51	1.00	174.51	1.42	0.86	0.86
8.32	15.10	176.20	1.00	176.20	1.43	0.86	0.86
8.34	15.15	176.64	1.00	176.64	1.44	0.86	0.86
8.36	15.17	176.52	1.00	176.52	1.43	0.86	0.86
8.38	15.28	177.25	1.00	177.25	1.41	0.86	0.86
8.40	15.36	178.01	1.00	178.01	1.42	0.86	0.86
8.42	15.47	178.95	1.00	178.95	1.41	0.86	0.86
8.44	15.48	179.20	1.00	179.20	1.42	0.86	0.86
8.46	15.58	179.88	1.00	179.88	1.41	0.86	0.86
8.48	15.53	179.09	1.00	179.09	1.41	0.86	0.86
8.50	15.52	178.56	1.00	178.56	1.40	0.86	0.86
8.52	15.46	177.72	1.00	177.72	1.40	0.86	0.86
8.54	15.45	177.38	1.00	177.38	1.40	0.86	0.86
8.56	15.37	176.05	1.00	176.05	1.39	0.86	0.86

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.58	14.97	171.64	1.00	171.64	1.41	0.85	0.85
8.60	14.11	162.84	1.00	162.84	1.47	0.84	0.84
8.62	13.10	151.63	1.00	151.63	1.50	0.83	0.83
8.64	12.29	142.29	1.00	142.29	1.52	0.82	0.82
8.66	11.90	137.35	1.00	137.35	1.50	0.81	0.81
8.68	11.77	135.87	1.00	135.87	1.51	0.81	0.81
8.70	11.65	134.28	1.00	134.28	1.51	0.80	0.80
8.72	11.52	132.43	1.00	132.43	1.50	0.80	0.80
8.74	11.34	130.14	1.00	130.14	1.50	0.80	0.80
8.76	11.20	129.06	1.00	129.06	1.54	0.80	0.80
8.78	11.30	130.51	1.00	130.51	1.56	0.80	0.80
8.80	11.64	133.93	1.00	133.93	1.54	0.80	0.80
8.82	11.86	136.09	1.00	136.09	1.52	0.81	0.81
8.84	11.53	132.82	1.00	132.82	1.56	0.80	0.80
8.86	11.05	127.72	1.00	127.72	1.60	0.79	0.79
8.88	10.50	121.49	1.00	121.49	1.62	0.79	0.79
8.90	10.24	118.05	1.00	118.05	1.61	0.78	0.78
8.92	9.98	115.26	1.00	115.26	1.63	0.78	0.78
8.94	10.15	117.05	1.00	117.05	1.63	0.78	0.78
8.96	10.89	124.93	1.00	124.93	1.59	0.79	0.79
8.98	12.03	137.00	1.00	137.00	1.53	0.81	0.81
9.00	13.76	155.07	1.00	155.07	1.44	0.83	0.83
9.02	16.23	180.99	1.00	180.99	1.36	0.87	0.87
9.04	18.50	204.49	1.00	204.49	1.28	0.89	0.89
9.06	20.03	220.34	1.00	220.34	1.24	0.91	0.91
9.08	19.12	210.30	1.00	210.30	1.25	0.90	0.90
9.10	18.25	201.28	1.00	201.28	1.29	0.89	0.89
9.12	16.79	185.92	1.00	185.92	1.33	0.87	0.87
9.14	16.40	181.97	1.00	181.97	1.36	0.87	0.87
9.16	15.55	172.48	1.00	172.48	1.37	0.86	0.86
9.18	14.84	165.91	1.00	165.91	1.45	0.85	0.85
9.20	14.13	158.91	1.00	158.91	1.51	0.84	0.84
9.22	13.42	151.67	1.00	151.67	1.57	0.83	0.83
9.24	12.84	145.03	1.00	145.03	1.58	0.82	0.82
9.26	12.43	140.45	1.00	140.45	1.59	0.81	0.81
9.28	11.92	134.96	1.00	134.96	1.63	0.81	0.81
9.30	10.91	123.97	1.00	123.97	1.68	0.79	0.79
9.32	10.34	117.76	1.03	120.91	1.72	0.78	0.78
9.34	11.17	127.20	1.02	130.21	1.72	0.80	0.80
9.36	12.83	145.97	1.00	145.97	1.71	0.82	0.82
9.38	14.02	159.84	1.05	168.11	1.73	0.85	0.85
9.40	14.18	162.16	1.11	180.29	1.77	0.86	0.86
9.42	14.13	161.99	1.16	188.25	1.81	0.87	0.87
9.44	14.28	163.32	1.15	187.81	1.80	0.87	0.87
9.46	14.36	163.70	1.13	184.77	1.78	0.87	0.87
9.48	14.14	160.34	1.08	172.85	1.75	0.86	0.86
9.50	13.30	150.68	1.09	164.58	1.75	0.85	0.85
9.52	12.10	136.78	1.10	150.37	1.76	0.83	0.83

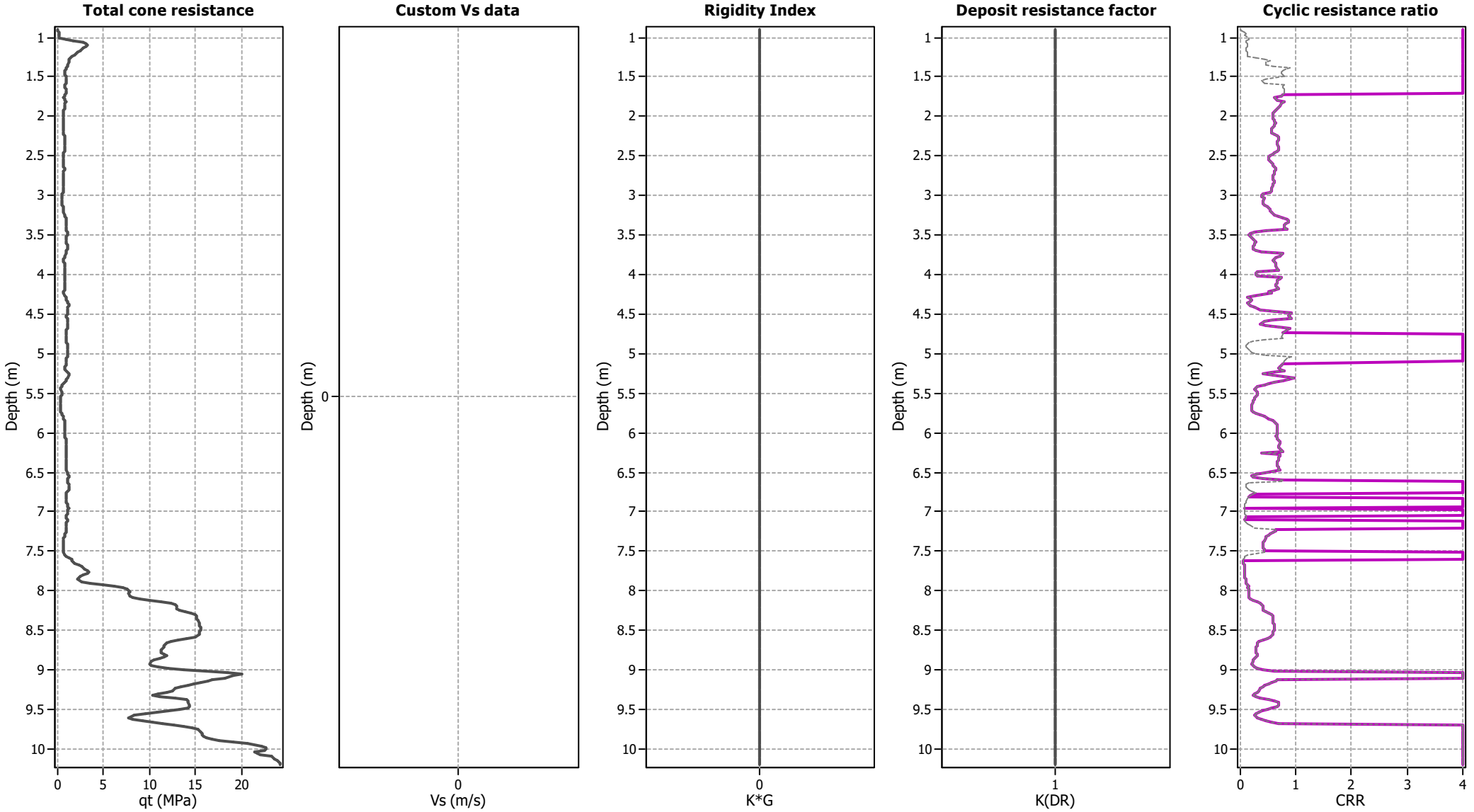
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
9.54	10.83	122.60	1.16	141.61	1.80	0.82	0.82
9.56	9.53	108.38	1.22	132.42	1.88	0.80	0.80
9.58	8.30	95.42	1.33	126.99	2.03	0.79	0.79
9.60	7.78	90.08	1.48	133.62	2.14	0.80	0.80
9.62	8.19	95.19	1.56	148.33	2.18	0.82	0.82
9.64	9.25	107.22	1.50	160.83	2.15	0.84	0.84
9.66	10.34	119.52	1.45	173.22	2.12	0.86	0.86
9.68	11.45	132.03	1.41	186.56	2.10	0.87	0.87
9.70	12.68	145.80	1.39	202.02	2.08	0.89	0.89
9.72	13.80	158.26	1.36	215.00	2.05	0.90	0.90
9.74	14.67	167.84	1.35	225.81	2.04	0.91	0.91
9.76	15.22	173.97	1.35	235.31	2.05	0.92	0.92
9.78	15.64	178.66	1.36	243.32	2.06	0.93	0.93
9.80	15.75	179.75	1.38	248.18	2.07	0.93	0.93
9.82	15.74	179.47	1.39	250.25	2.08	0.94	0.94
9.84	15.88	180.83	1.40	253.49	2.09	0.94	0.94
9.86	16.25	184.79	1.41	260.20	2.09	0.94	0.94
9.88	16.88	191.60	1.40	269.15	2.09	0.95	0.95
9.90	17.63	199.78	1.40	278.80	2.08	0.96	0.96
9.92	19.12	215.70	1.35	291.92	2.05	0.97	0.97
9.94	20.71	232.78	1.32	306.70	2.01	0.98	0.98
9.96	22.15	248.06	1.29	321.10	1.98	0.99	0.99
9.98	22.73	254.05	1.29	328.91	1.98	1.00	1.00
10.00	22.64	252.94	1.31	330.73	2.00	1.00	1.00
10.02	22.48	250.93	1.32	331.49	2.02	1.00	1.00
10.04	21.43	239.37	1.36	325.42	2.05	1.00	1.00
10.06	21.75	242.55	1.36	329.84	2.05	1.00	1.00
10.08	22.11	246.16	1.37	336.17	2.06	1.00	1.00
10.10	23.35	259.28	1.34	348.23	2.04	1.01	1.01
10.12	23.58	261.42	1.35	352.46	2.04	1.02	1.02
10.14	23.82	263.59	1.35	355.62	2.04	1.02	1.02
10.16	24.06	265.84	1.35	359.10	2.05	1.02	1.02
10.18	24.17	266.62	1.36	361.33	2.05	1.02	1.02
10.20	24.20	266.55	1.36	362.23	2.05	1.02	1.02

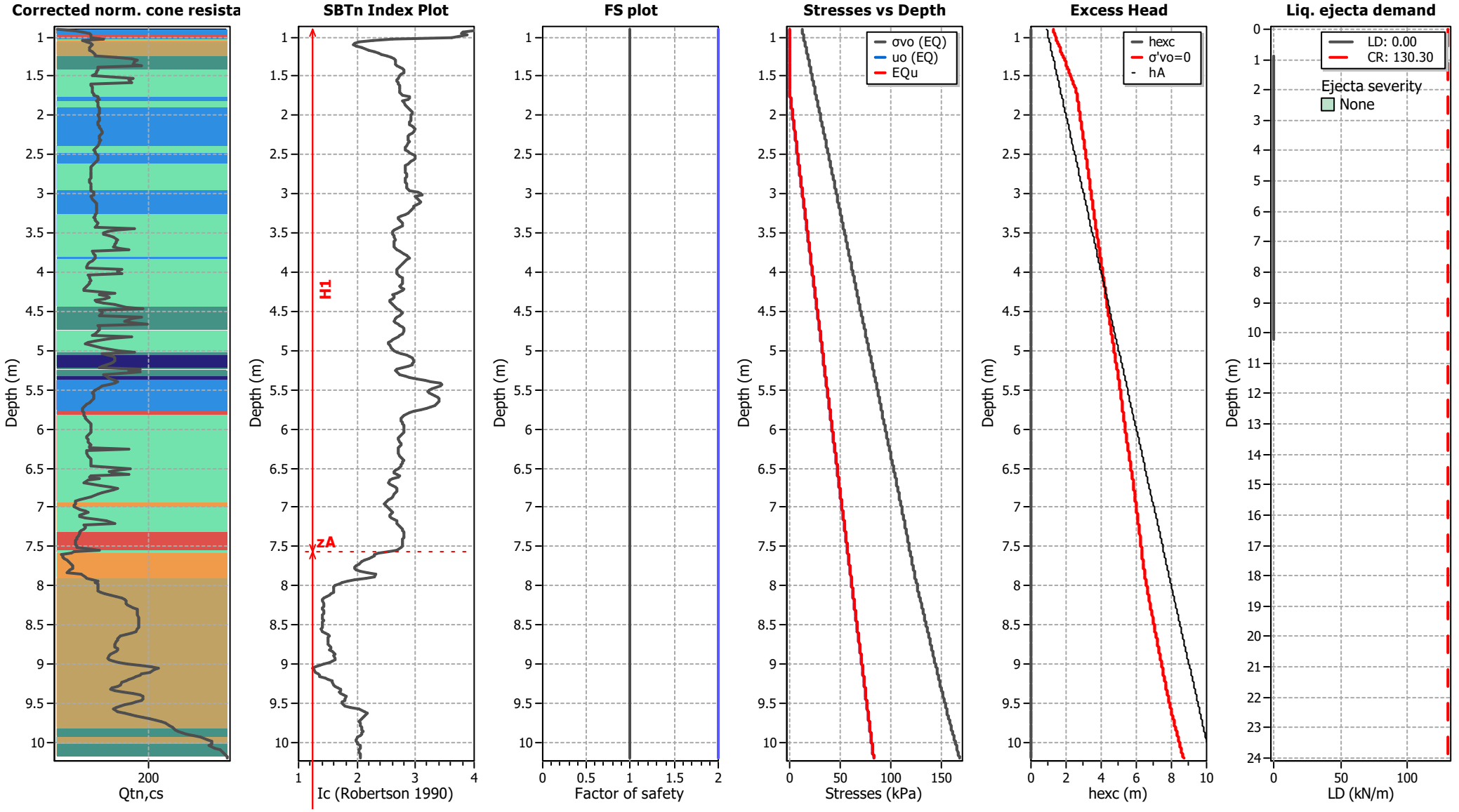
Abbreviations

q_t: Total cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
I_c: Soil behavior type index
$S_{u(liq)}/\sigma'_v$: Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$: Calculated peak undrained strength ratio

Aging Calculation Estimation



Ejecta Severity Estimation



Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

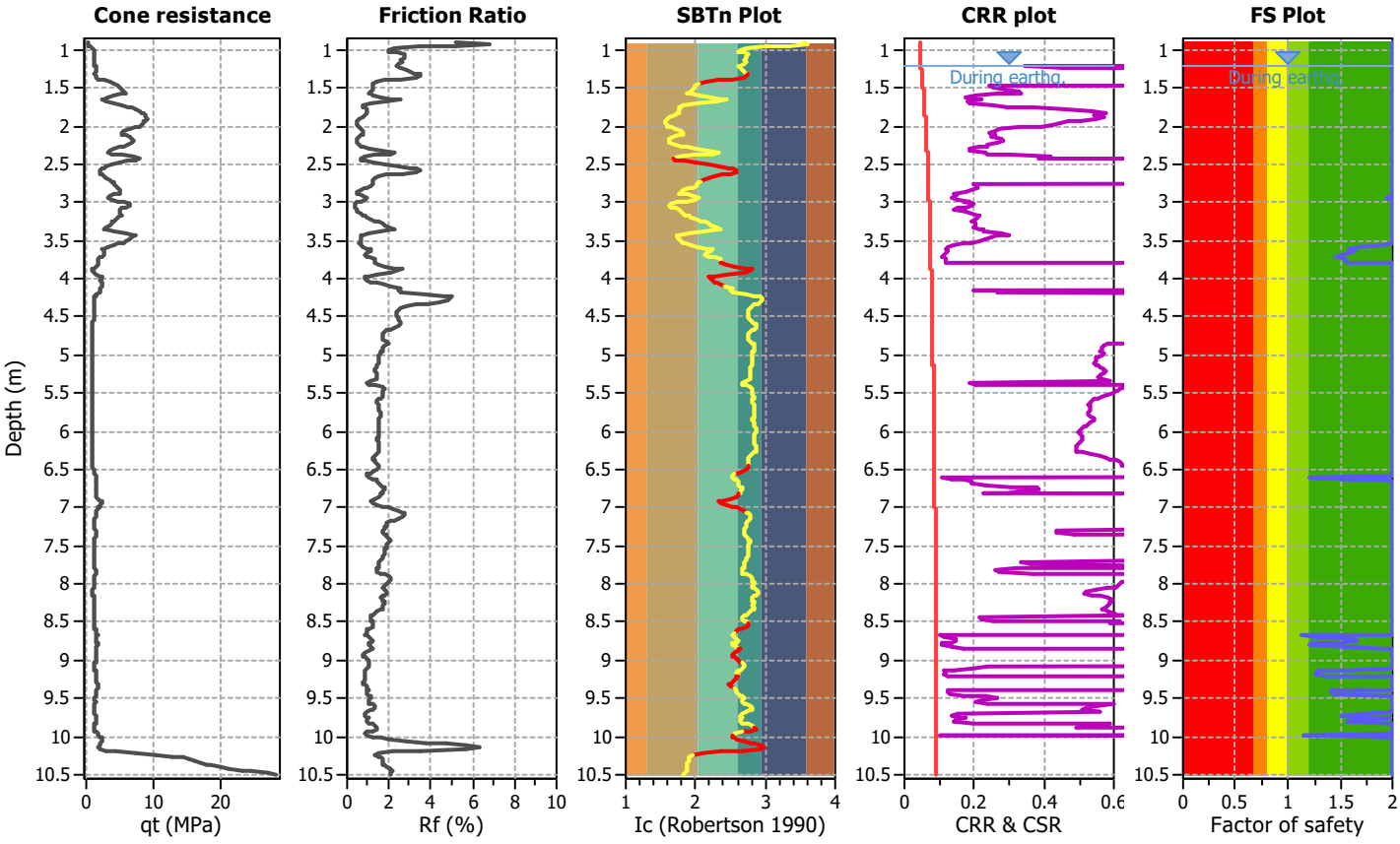
LIQUEFACTION ANALYSIS REPORT

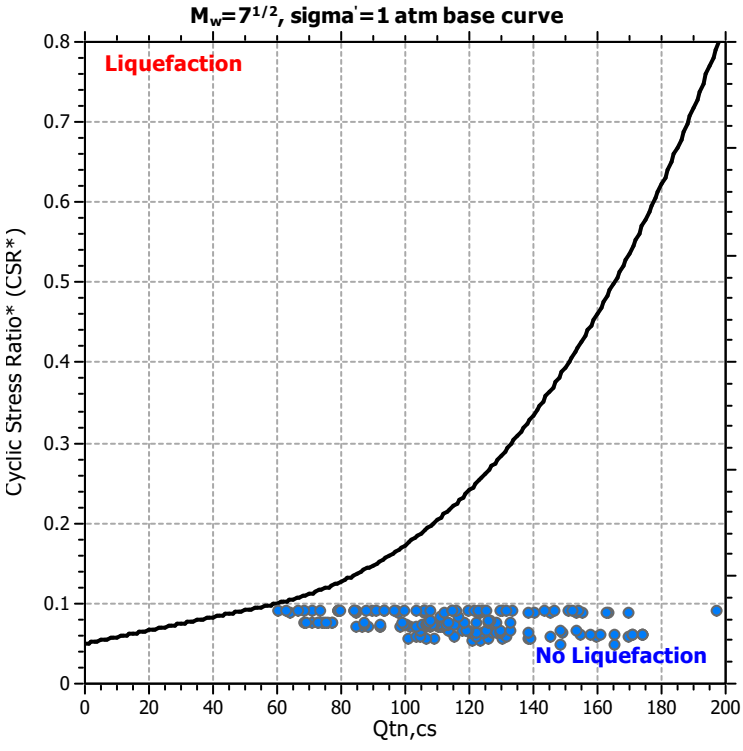
Project title : CWLP Free Face Liquefaction Analysis **Location : East Lake Shore Drive, Springfield, Illinois**

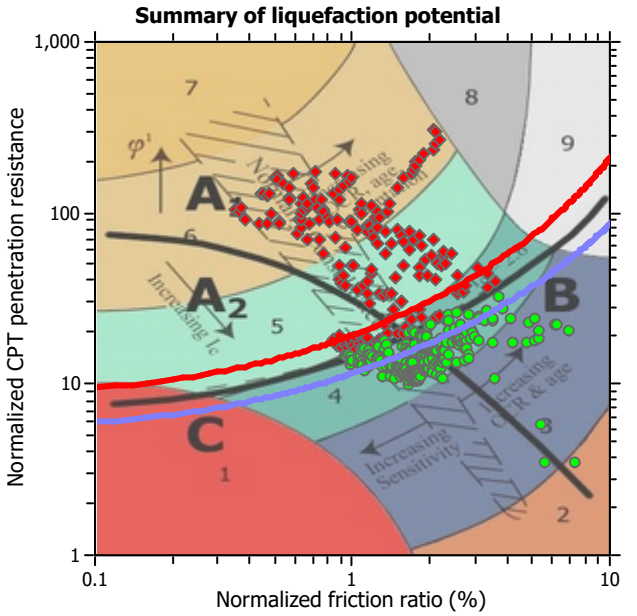
CPT file : CWLP CPT-7L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	1.20 m	Use fill:	No	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	1.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.10	Unit weight calculation:	Based on SBT	K_σ applied:	No		

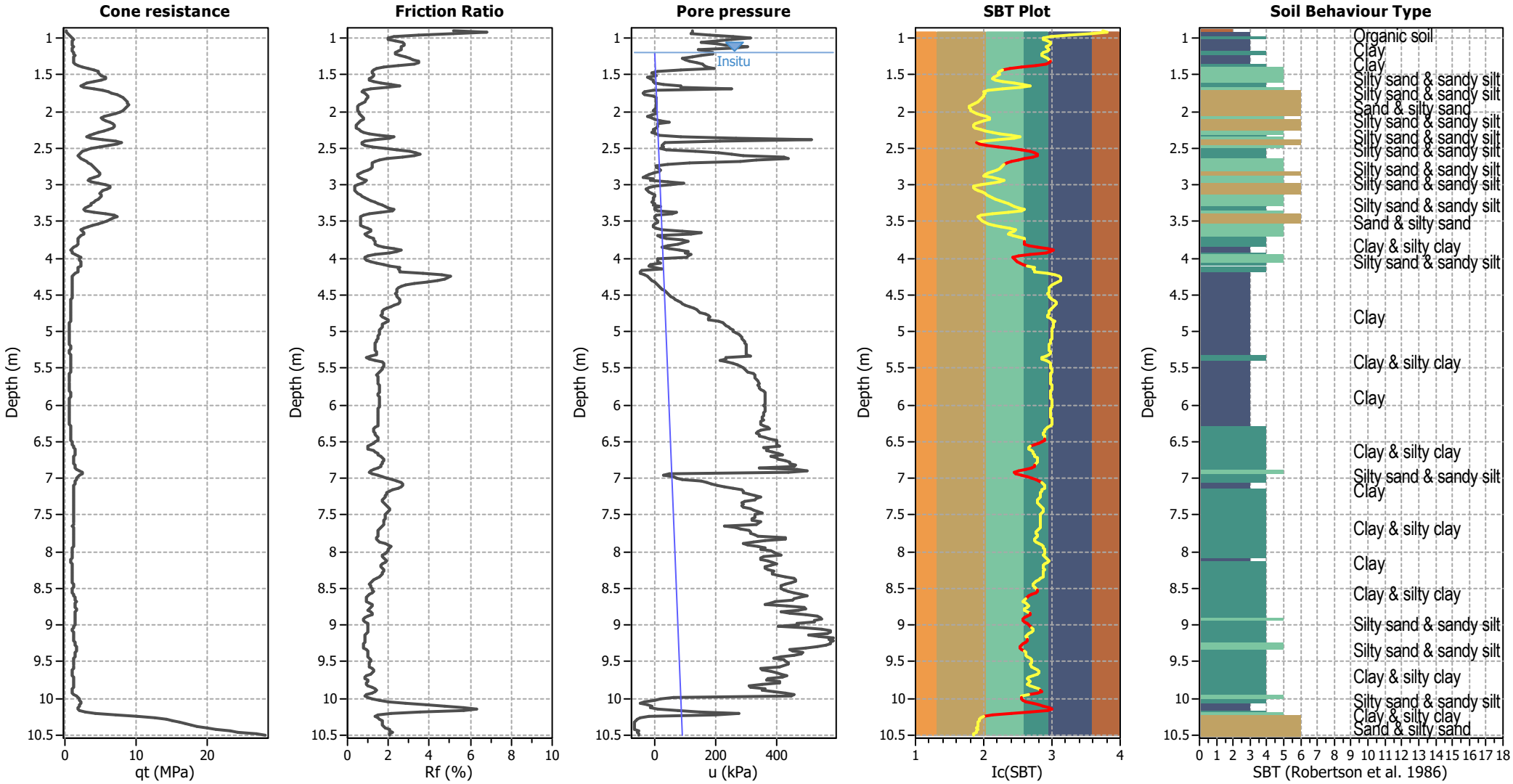






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



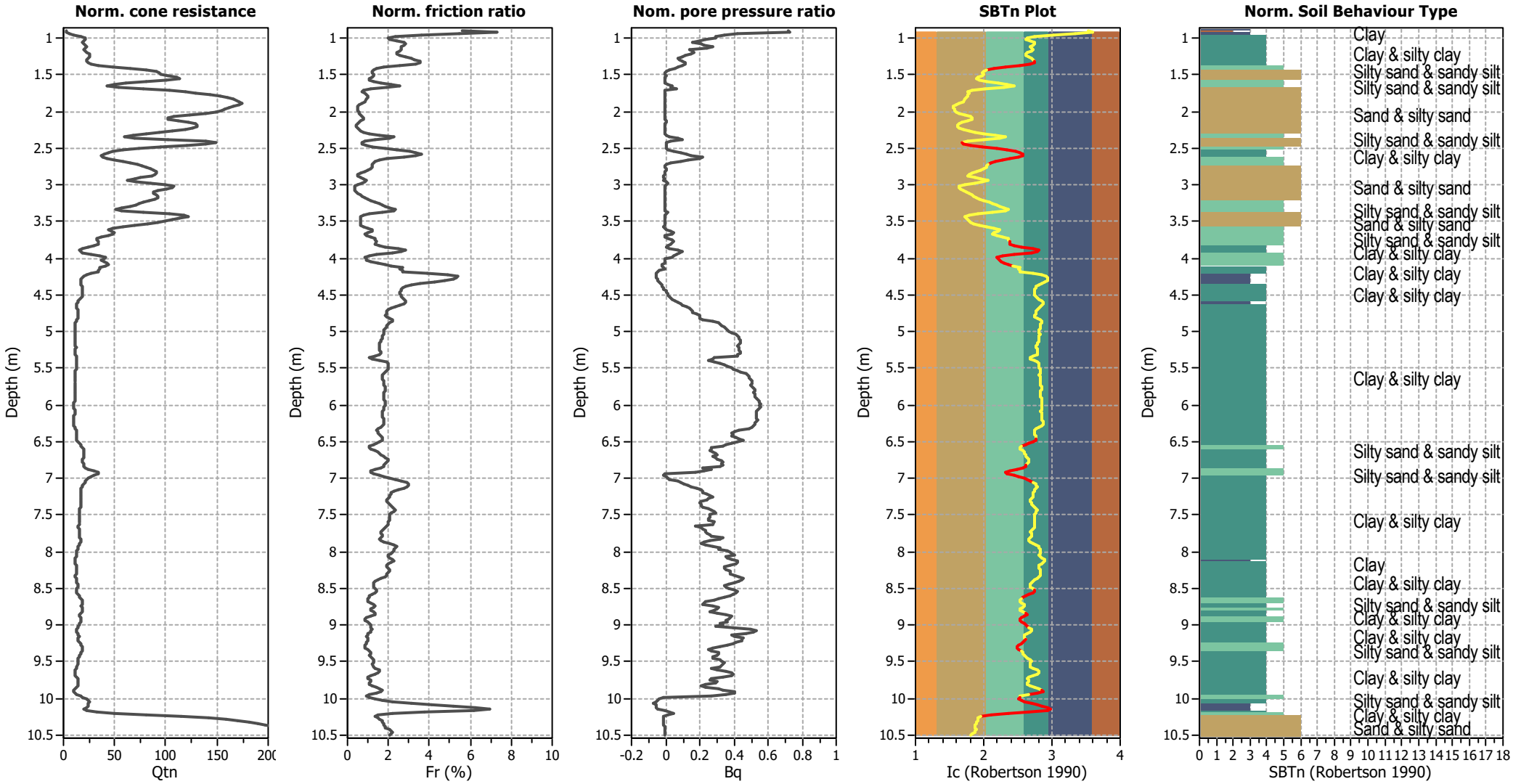
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.20 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



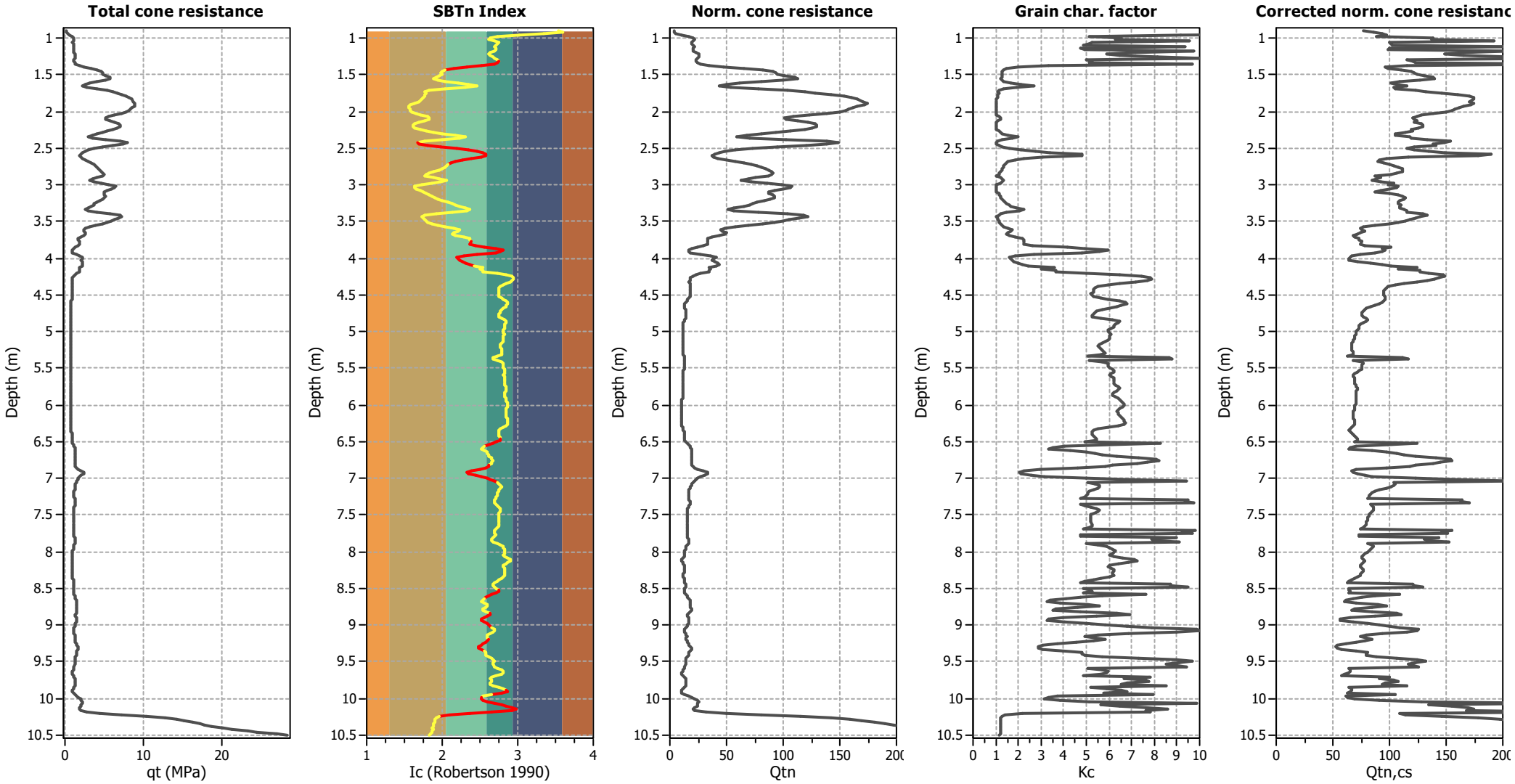
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.20 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	N/A	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

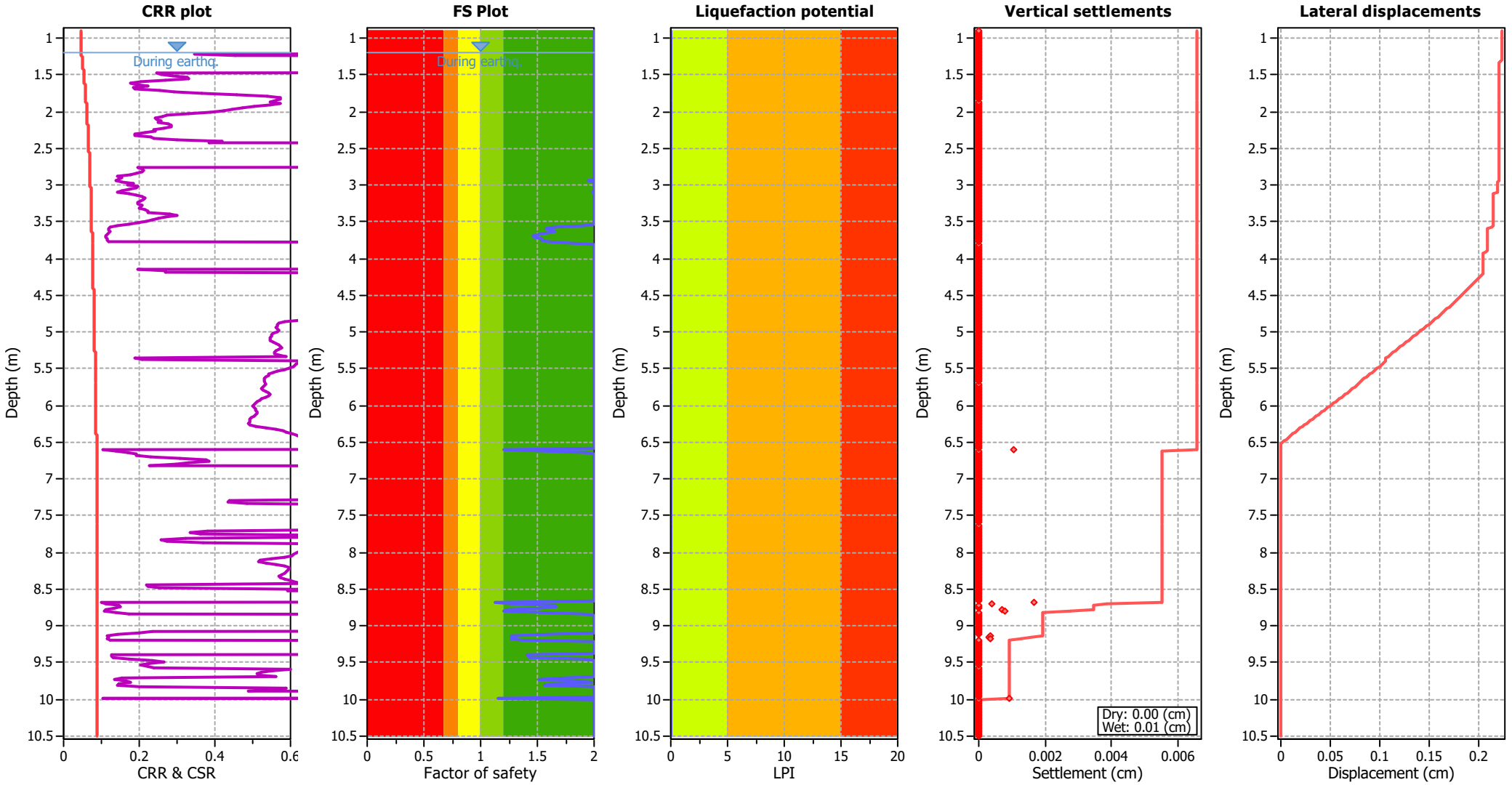
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.20 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	N/A	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.20 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	N/A	Limit depth:	N/A

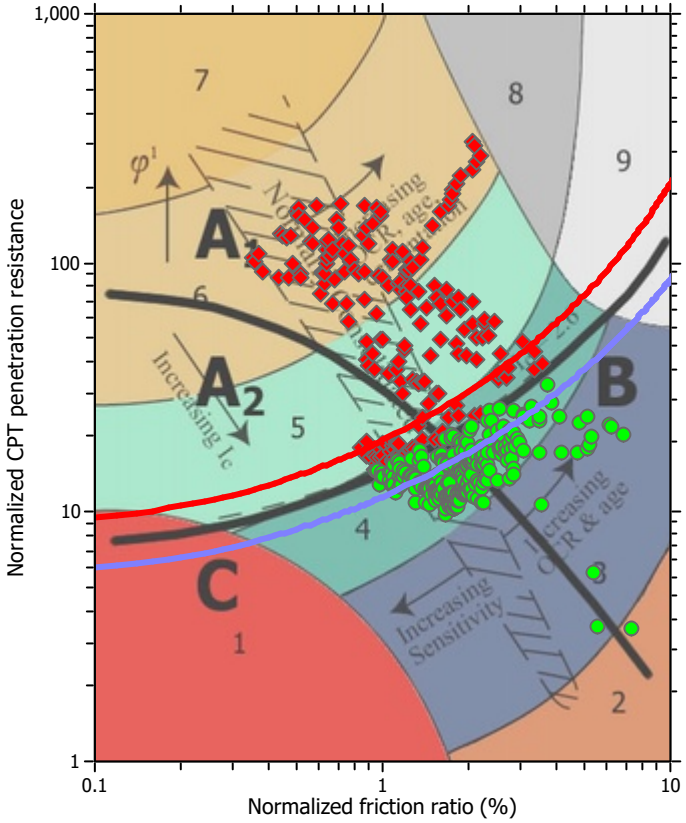
F.S. color scheme

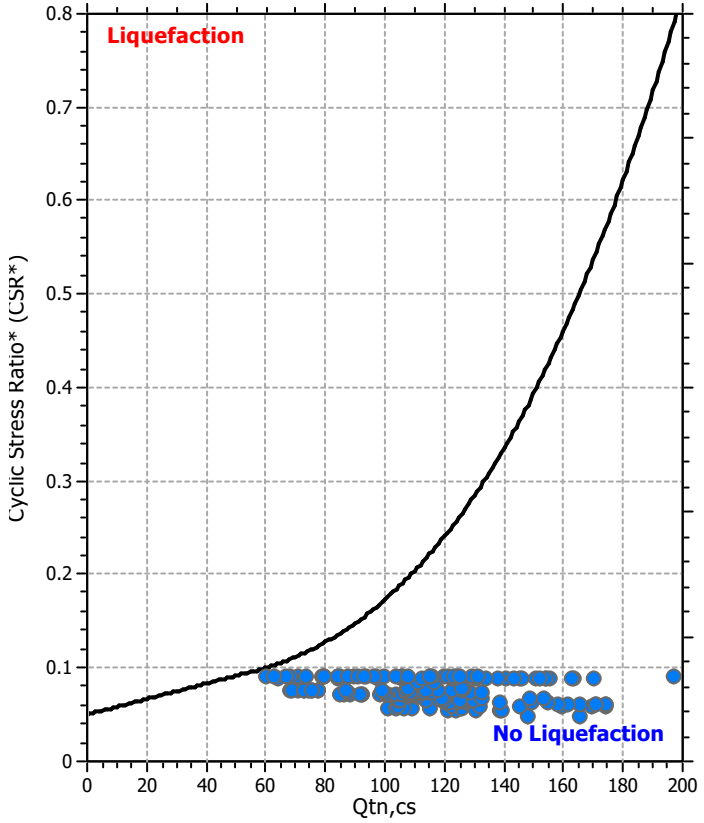
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

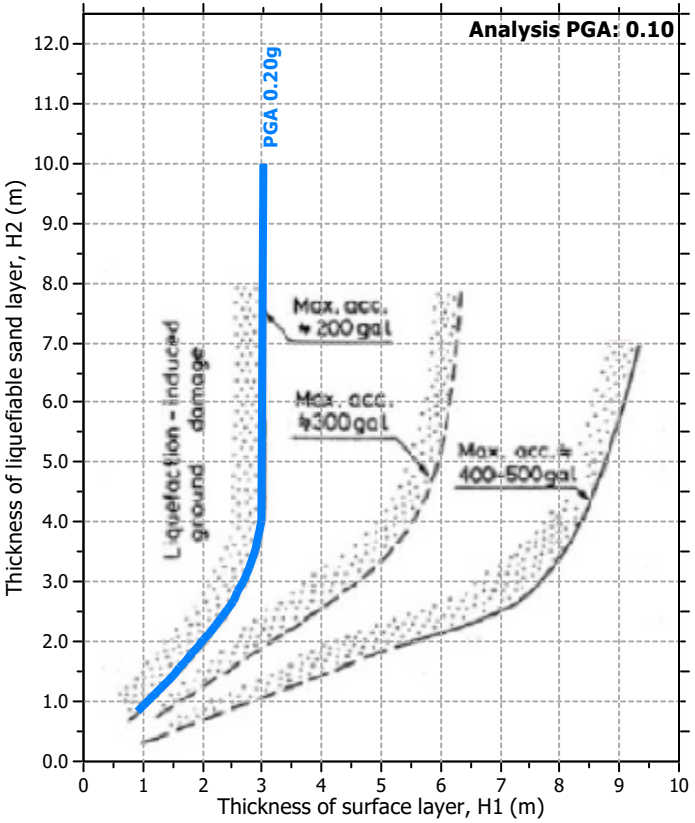
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



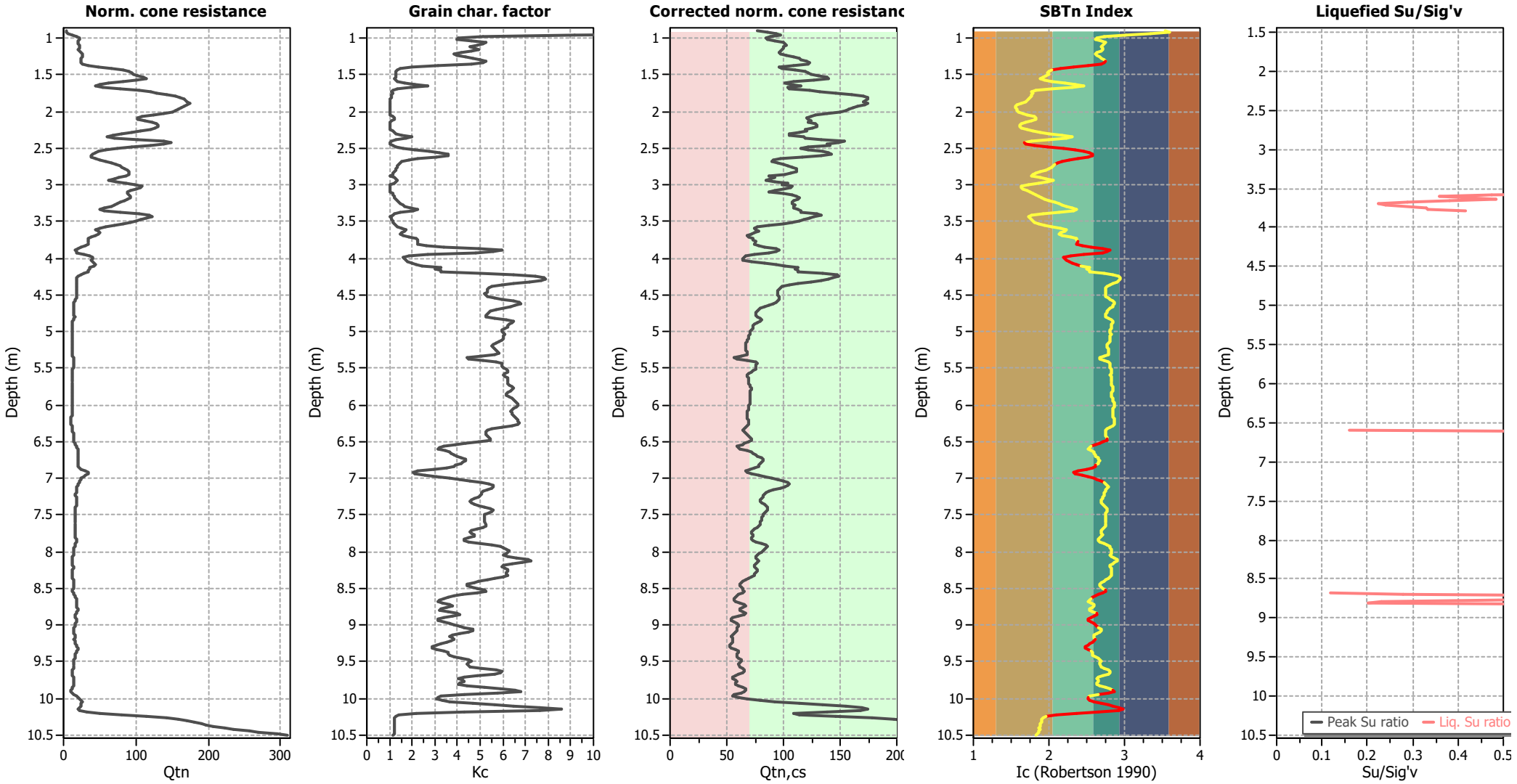




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.20 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	N/A	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

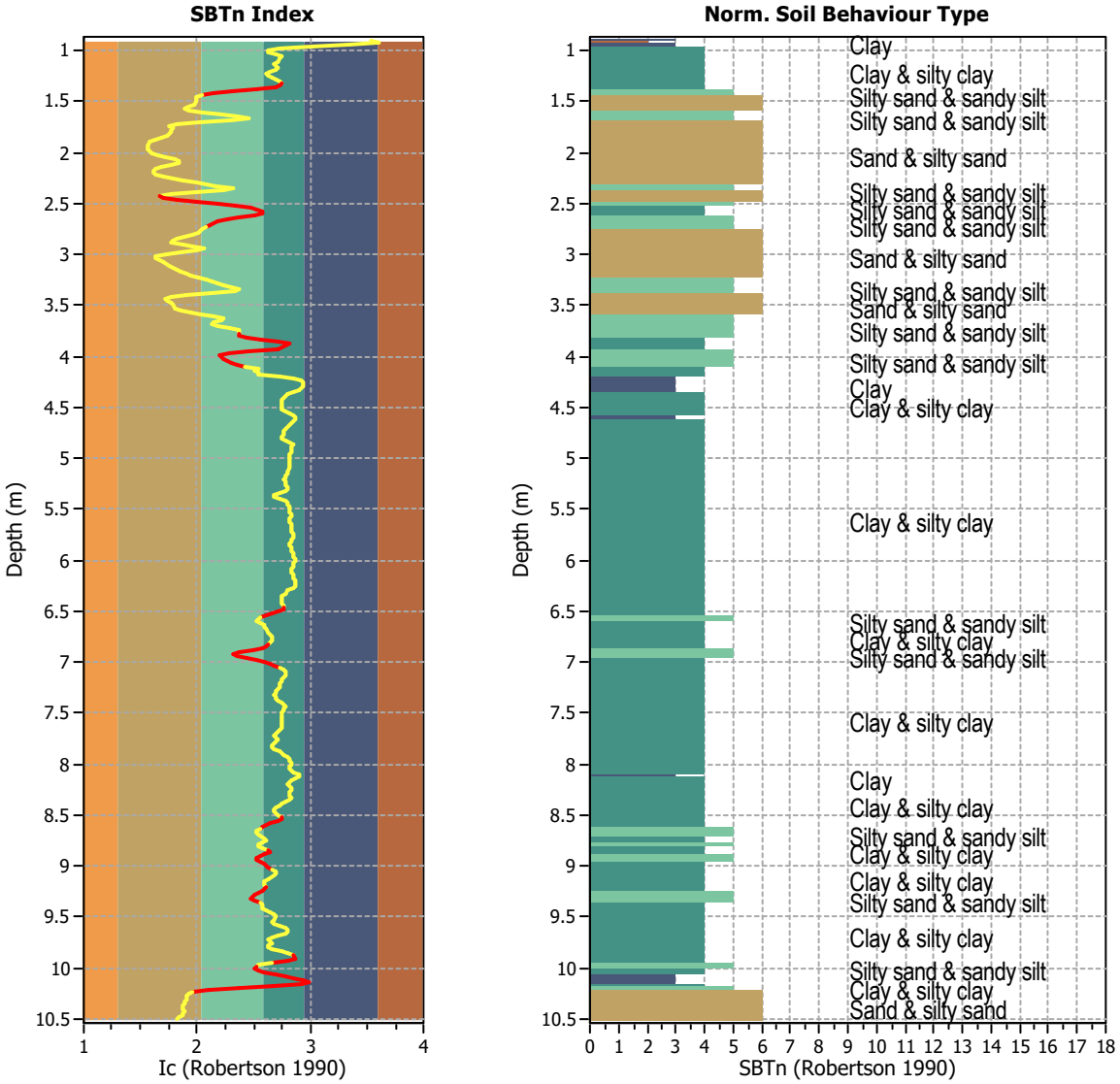
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	1.20 m	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	N/A	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		General statistics	
I_c minimum check value:	1.70	Total points in CPT file:	481
I_c maximum check value:	3.00	Total points excluded:	107
I_c change ratio value:	0.0100	Exclusion percentage:	22.25%
Minimum number of points in layer:	4	Number of layers detected:	17

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	7	Start depth: 1.34 (m)	4	Clay & silty clay
		End depth: 1.46 (m)	6	Sand & silty sand
Transition layer 2	8	Start depth: 2.44 (m)	6	Sand & silty sand
		End depth: 2.58 (m)	4	Clay & silty clay
Transition layer 3	8	Start depth: 2.60 (m)	4	Clay & silty clay
		End depth: 2.74 (m)	5	Silty sand & sandy silt
Transition layer 4	5	Start depth: 3.80 (m)	5	Silty sand & sandy silt
		End depth: 3.88 (m)	4	Clay & silty clay
Transition layer 5	6	Start depth: 3.88 (m)	4	Clay & silty clay
		End depth: 3.98 (m)	5	Silty sand & sandy silt
Transition layer 6	7	Start depth: 4.00 (m)	5	Silty sand & sandy silt
		End depth: 4.12 (m)	4	Clay & silty clay
Transition layer 7	6	Start depth: 6.48 (m)	4	Clay & silty clay
		End depth: 6.58 (m)	5	Silty sand & sandy silt
Transition layer 8	5	Start depth: 6.84 (m)	4	Clay & silty clay
		End depth: 6.92 (m)	5	Silty sand & sandy silt
Transition layer 9	9	Start depth: 6.92 (m)	5	Silty sand & sandy silt
		End depth: 7.08 (m)	4	Clay & silty clay
Transition layer 10	7	Start depth: 8.54 (m)	4	Clay & silty clay
		End depth: 8.66 (m)	5	Silty sand & sandy silt
Transition layer 11	4	Start depth: 8.86 (m)	4	Clay & silty clay
		End depth: 8.92 (m)	5	Silty sand & sandy silt
Transition layer 12	7	Start depth: 8.94 (m)	5	Silty sand & sandy silt
		End depth: 9.06 (m)	4	Clay & silty clay
Transition layer 13	5	Start depth: 9.22 (m)	4	Clay & silty clay
		End depth: 9.30 (m)	5	Silty sand & sandy silt
Transition layer 14	4	Start depth: 9.32 (m)	5	Silty sand & sandy silt
		End depth: 9.38 (m)	4	Clay & silty clay
Transition layer 15	4	Start depth: 9.90 (m)	4	Clay & silty clay
		End depth: 9.96 (m)	5	Silty sand & sandy silt
Transition layer 16	8	Start depth: 10.00 (m)	5	Silty sand & sandy silt
		End depth: 10.14 (m)	3	Clay
Transition layer 17	7	Start depth: 10.14 (m)	3	Clay
		End depth: 10.26 (m)	6	Sand & silty sand

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.17	9.70	125.20	100.00	14.96
2	0.92	0.17	9.70	125.20	100.00	15.27
3	0.94	0.17	18.70	121.80	84.99	15.70
4	0.96	0.50	18.80	183.70	59.88	16.17
5	0.98	0.90	20.70	259.20	42.61	16.41
6	1.00	1.14	21.40	315.20	36.85	16.55
7	1.02	1.09	22.40	254.50	36.52	16.62
8	1.04	1.01	24.00	208.10	39.90	16.68
9	1.06	0.92	26.70	152.90	43.25	16.75
10	1.08	0.90	28.90	206.70	42.61	16.84
11	1.10	1.14	29.10	237.00	41.34	16.92
12	1.12	1.08	30.90	304.40	39.72	16.93
13	1.14	1.05	28.20	260.40	40.69	16.85
14	1.16	0.99	24.70	142.60	41.55	16.78
15	1.18	0.96	27.50	170.90	40.07	16.81
16	1.20	1.21	28.90	191.50	37.56	16.90
17	1.22	1.31	28.20	190.90	36.00	17.02
18	1.24	1.28	34.40	153.50	36.72	17.13
19	1.26	1.29	37.70	123.60	38.57	17.23
20	1.28	1.25	37.70	92.30	40.42	17.26
21	1.30	1.14	38.70	101.30	41.84	17.26
22	1.32	1.16	39.20	116.80	43.23	17.32
23	1.34	1.20	45.00	138.70	42.42	17.40
24	1.36	1.30	45.20	159.50	40.00	17.47
25	1.38	1.49	43.40	165.10	31.91	17.56
26	1.40	2.40	43.60	171.80	23.29	17.68
27	1.42	3.36	44.40	195.10	17.34	17.89
28	1.44	4.20	54.00	85.90	14.12	18.08
29	1.46	4.84	57.20	8.30	12.88	18.21
30	1.48	4.83	57.10	-8.00	12.66	18.25
31	1.50	4.58	58.80	1.50	12.82	18.33
32	1.52	5.10	67.80	4.70	12.15	18.42
33	1.54	5.88	68.60	-21.80	10.96	18.47
34	1.56	5.92	61.70	-13.40	10.15	18.40
35	1.58	5.51	55.30	-5.70	11.22	18.23
36	1.60	3.89	49.50	-3.50	14.15	18.07
37	1.62	3.02	50.60	-1.00	19.45	17.96
38	1.64	2.50	54.80	29.70	24.44	17.94
39	1.66	2.17	56.60	84.50	28.60	17.92
40	1.68	1.95	56.60	84.50	22.63	17.93
41	1.70	4.04	44.80	256.00	13.74	17.92
42	1.72	5.99	35.90	-6.80	8.71	17.89
43	1.74	5.82	41.30	-31.40	7.32	18.03
44	1.76	6.47	54.40	-36.70	7.72	18.33
45	1.78	7.39	70.80	-31.20	7.56	18.59
46	1.80	7.92	76.60	-5.30	7.38	18.76
47	1.82	8.11	80.90	3.00	7.12	18.83
48	1.84	8.46	82.30	4.70	6.73	18.84

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	8.69	76.00	4.60	6.01	18.79
50	1.88	8.95	67.00	4.70	4.90	18.60
51	1.90	8.98	47.00	2.90	4.14	18.39
52	1.92	8.83	44.50	3.10	3.70	18.20
53	1.94	8.54	43.00	3.20	3.77	18.14
54	1.96	8.33	41.50	0.00	3.93	18.11
55	1.98	8.23	42.80	-3.00	4.08	18.09
56	2.00	7.96	41.10	3.30	4.45	18.07
57	2.02	7.28	41.10	3.70	5.17	18.00
58	2.04	6.20	39.70	-11.30	6.52	17.95
59	2.06	5.42	41.00	-23.50	8.10	17.90
60	2.08	4.98	40.30	-10.30	8.88	17.86
61	2.10	5.16	38.00	-0.90	8.87	17.87
62	2.12	5.51	42.60	21.20	7.35	17.84
63	2.14	6.48	33.60	48.50	5.93	17.79
64	2.16	6.81	29.50	8.20	4.89	17.72
65	2.18	7.08	33.80	8.20	4.59	17.69
66	2.20	6.94	30.10	8.30	4.52	17.68
67	2.22	6.95	28.80	4.30	4.89	17.66
68	2.24	6.22	33.70	-3.60	6.16	17.78
69	2.26	5.33	42.80	1.30	7.71	17.75
70	2.28	4.71	30.60	-8.60	9.81	17.77
71	2.30	4.26	40.80	4.90	12.82	17.84
72	2.32	3.37	56.10	14.90	17.91	18.08
73	2.34	2.85	68.30	85.10	23.17	18.27
74	2.36	2.82	80.10	268.10	20.19	18.41
75	2.38	4.93	70.80	514.80	12.70	18.52
76	2.40	7.74	60.40	213.50	7.44	18.49
77	2.42	8.49	55.60	34.70	5.66	18.39
78	2.44	7.69	48.90	30.30	6.15	18.29
79	2.46	5.96	49.70	22.70	8.45	18.28
80	2.48	4.76	63.80	30.90	12.63	18.28
81	2.50	3.73	63.00	20.70	18.54	18.35
82	2.52	2.74	77.10	39.50	24.19	18.33
83	2.54	2.46	75.80	132.50	29.34	18.31
84	2.56	2.23	73.60	211.50	31.99	18.26
85	2.58	1.99	74.60	253.80	34.50	18.18
86	2.60	1.77	67.80	291.00	34.49	18.01
87	2.62	1.84	47.30	427.50	31.29	17.81
88	2.64	2.10	42.70	440.20	25.54	17.60
89	2.66	2.50	36.70	337.10	21.56	17.58
90	2.68	2.86	39.40	282.10	18.28	17.62
91	2.70	3.38	41.40	113.50	16.28	17.74
92	2.72	3.76	43.70	41.60	15.00	17.85
93	2.74	3.93	47.40	4.60	14.33	17.95
94	2.76	4.16	50.30	7.20	13.84	18.02
95	2.78	4.35	50.20	16.80	13.14	18.04
96	2.80	4.46	48.00	20.60	11.72	17.93

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	4.67	34.90	13.40	10.21	17.76
98	2.84	4.86	30.70	-2.90	8.58	17.50
99	2.86	5.03	24.30	-17.50	7.75	17.31
100	2.88	4.84	20.90	-27.40	5.00	17.16
101	2.90	4.49	21.60	-38.20	9.93	17.17
102	2.92	2.66	29.40	-3.70	11.94	17.23
103	2.94	3.54	27.60	-13.60	14.56	17.35
104	2.96	3.45	32.90	43.30	12.60	17.45
105	2.98	4.01	33.30	93.70	9.55	17.52
106	3.00	6.28	26.90	55.30	5.00	17.44
107	3.02	6.51	21.00	1.10	5.02	17.34
108	3.04	6.39	23.00	-18.70	4.96	17.24
109	3.06	5.96	21.70	-30.00	5.00	17.18
110	3.08	5.44	18.80	-23.80	5.00	17.10
111	3.10	4.65	20.50	-18.80	5.00	17.13
112	3.12	4.93	25.00	-8.10	7.98	17.31
113	3.14	5.14	30.30	1.50	8.65	17.58
114	3.16	5.08	39.60	1.40	9.41	17.78
115	3.18	5.03	42.30	-5.40	10.43	17.92
116	3.20	4.76	46.00	-4.90	11.44	17.98
117	3.22	4.42	48.30	-5.70	13.20	18.03
118	3.24	3.84	53.00	-10.80	15.13	18.07
119	3.26	3.67	56.30	1.60	16.90	18.15
120	3.28	3.77	61.70	-3.60	18.41	18.23
121	3.30	3.43	67.80	20.50	19.91	18.18
122	3.32	2.84	53.20	-1.80	22.47	18.08
123	3.34	2.52	54.80	0.40	25.29	18.06
124	3.36	2.51	70.50	11.60	23.61	18.20
125	3.38	3.74	69.30	70.80	16.95	18.35
126	3.40	5.80	59.10	59.50	10.78	18.37
127	3.42	7.61	51.70	6.70	7.63	18.27
128	3.44	7.38	45.10	1.80	6.60	18.16
129	3.46	6.83	42.50	2.60	7.00	18.04
130	3.48	6.13	40.70	4.30	7.57	17.93
131	3.50	5.79	36.00	8.50	7.96	17.82
132	3.52	5.66	34.00	11.90	8.43	17.65
133	3.54	4.68	28.50	1.00	9.42	17.48
134	3.56	3.93	26.30	-5.80	11.32	17.25
135	3.58	3.10	22.80	-3.60	13.83	17.07
136	3.60	2.48	22.20	3.50	17.56	17.05
137	3.62	2.13	29.70	26.50	20.15	17.10
138	3.64	2.34	28.70	89.70	19.64	17.17
139	3.66	2.78	26.50	153.60	17.56	17.09
140	3.68	2.67	21.90	118.70	16.77	16.94
141	3.70	2.32	19.20	9.60	18.39	16.80
142	3.72	1.91	21.40	18.10	21.87	16.75
143	3.74	1.62	22.40	40.90	25.02	16.77
144	3.76	1.70	23.00	89.60	25.24	16.76

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	1.84	21.10	109.70	25.44	16.86
146	3.80	1.74	28.00	78.50	25.30	16.82
147	3.82	1.66	20.50	43.80	28.18	16.81
148	3.84	1.34	22.70	26.60	33.45	16.67
149	3.86	0.86	24.60	49.00	41.48	16.64
150	3.88	0.86	23.60	82.90	46.63	16.55
151	3.90	0.89	20.70	108.30	44.70	16.51
152	3.92	0.94	21.60	103.00	40.89	16.45
153	3.94	1.07	18.60	120.10	28.81	16.58
154	3.96	2.29	19.80	109.60	21.80	16.63
155	3.98	2.31	19.20	106.80	18.89	16.68
156	4.00	2.02	18.20	12.00	19.52	16.64
157	4.02	2.02	18.20	12.00	20.37	16.60
158	4.04	2.02	18.20	12.00	21.20	16.93
159	4.06	2.40	34.90	18.10	22.83	17.30
160	4.08	2.32	43.70	-12.80	24.65	17.56
161	4.10	2.12	43.10	-18.20	27.10	17.62
162	4.12	1.98	44.30	-0.40	32.35	17.66
163	4.14	1.41	54.90	25.90	31.11	17.65
164	4.16	2.32	40.50	-42.60	32.54	17.64
165	4.18	1.73	45.30	-48.60	32.54	17.64
166	4.20	1.42	54.40	-49.00	41.80	17.70
167	4.22	1.21	60.40	-35.30	48.76	17.70
168	4.24	1.07	54.00	-26.00	52.98	17.62
169	4.26	1.00	49.10	-20.70	54.52	17.48
170	4.28	0.96	45.70	-15.50	54.89	17.39
171	4.30	0.96	44.50	-10.40	53.94	17.27
172	4.32	0.94	35.70	-0.60	51.86	17.12
173	4.34	0.95	30.80	4.20	48.86	16.93
174	4.36	0.97	27.20	9.10	46.37	16.80
175	4.38	0.98	25.40	13.40	44.55	16.70
176	4.40	0.99	23.80	18.10	43.64	16.66
177	4.42	0.99	24.30	22.80	43.39	16.65
178	4.44	0.98	24.20	32.40	43.40	16.62
179	4.46	0.96	22.40	37.90	43.34	16.61
180	4.48	0.98	23.70	43.60	43.00	16.61
181	4.50	1.01	24.10	47.40	43.06	16.64
182	4.52	0.98	24.10	52.20	43.53	16.63
183	4.54	0.94	23.50	61.10	44.86	16.59
184	4.56	0.88	22.50	66.70	46.54	16.52
185	4.58	0.81	21.10	75.70	48.70	16.44
186	4.60	0.75	20.60	84.30	50.02	16.35
187	4.62	0.74	18.80	93.40	50.25	16.26
188	4.64	0.74	17.10	101.10	49.22	16.15
189	4.66	0.73	15.50	117.50	48.18	16.04
190	4.68	0.72	14.30	127.50	46.89	15.95
191	4.70	0.74	13.60	137.00	45.38	15.91
192	4.72	0.77	13.60	144.90	44.11	15.91

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	0.78	13.80	150.90	43.75	15.91
194	4.76	0.76	13.60	168.20	43.57	15.90
195	4.78	0.77	13.20	178.40	43.12	15.89
196	4.80	0.80	13.50	179.90	43.21	15.93
197	4.82	0.78	14.90	178.20	44.92	15.99
198	4.84	0.71	15.70	177.80	47.35	15.97
199	4.86	0.65	13.40	210.60	48.95	15.88
200	4.88	0.65	12.40	223.50	48.50	15.75
201	4.90	0.65	11.70	228.90	47.97	15.69
202	4.92	0.64	11.50	235.40	47.70	15.65
203	4.94	0.64	11.30	242.60	47.76	15.64
204	4.96	0.64	11.40	249.90	47.14	15.62
205	4.98	0.65	10.80	257.50	46.54	15.59
206	5.00	0.65	10.40	260.90	46.55	15.55
207	5.02	0.62	10.40	267.30	46.92	15.53
208	5.04	0.62	10.30	277.60	47.19	15.51
209	5.06	0.62	10.10	281.90	46.92	15.49
210	5.08	0.62	9.80	285.90	46.76	15.47
211	5.10	0.62	9.80	285.90	46.77	15.45
212	5.12	0.61	9.70	293.30	46.48	15.44
213	5.14	0.62	9.50	296.30	45.92	15.43
214	5.16	0.64	9.40	297.80	45.17	15.42
215	5.18	0.64	9.20	301.10	44.71	15.43
216	5.20	0.66	9.60	300.60	44.50	15.44
217	5.22	0.66	9.70	302.90	44.56	15.46
218	5.24	0.65	9.50	301.50	44.86	15.45
219	5.26	0.64	9.50	301.00	45.28	15.44
220	5.28	0.64	9.70	300.40	45.59	15.45
221	5.30	0.64	9.70	300.40	45.76	15.46
222	5.32	0.64	9.70	300.40	45.15	15.47
223	5.34	0.68	9.90	315.30	42.08	15.34
224	5.36	0.75	6.10	236.20	39.11	15.19
225	5.38	0.75	6.10	236.20	39.20	15.34
226	5.40	0.78	12.80	214.30	42.42	15.64
227	5.42	0.72	13.50	238.20	45.33	15.87
228	5.44	0.72	13.60	256.50	46.36	15.87
229	5.46	0.72	13.10	270.80	46.36	15.85
230	5.48	0.71	13.00	281.30	46.62	15.84
231	5.50	0.69	13.30	293.70	46.89	15.82
232	5.52	0.69	12.50	297.30	47.35	15.78
233	5.54	0.66	11.90	301.70	47.53	15.70
234	5.56	0.64	11.10	307.60	47.56	15.62
235	5.58	0.64	10.30	326.80	47.21	15.54
236	5.60	0.63	9.90	331.50	46.88	15.50
237	5.62	0.63	9.90	331.50	47.16	15.49
238	5.64	0.62	10.10	330.80	47.55	15.50
239	5.66	0.62	10.20	336.10	47.78	15.51
240	5.68	0.63	10.20	341.10	47.73	15.52

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.63	10.40	343.30	47.65	15.53
242	5.72	0.63	10.40	339.70	48.09	15.55
243	5.74	0.62	10.70	343.00	48.55	15.56
244	5.76	0.62	10.90	346.70	48.90	15.58
245	5.78	0.62	10.90	351.70	48.67	15.59
246	5.80	0.63	10.80	359.90	48.14	15.59
247	5.82	0.65	10.90	361.60	47.63	15.60
248	5.84	0.65	10.90	366.30	47.29	15.60
249	5.86	0.65	10.80	365.40	47.48	15.60
250	5.88	0.64	10.80	362.00	47.90	15.58
251	5.90	0.63	10.60	361.70	48.45	15.57
252	5.92	0.62	10.60	362.20	48.75	15.56
253	5.94	0.62	10.60	364.50	49.03	15.55
254	5.96	0.61	10.40	362.00	49.33	15.54
255	5.98	0.61	10.40	362.40	49.59	15.53
256	6.00	0.61	10.40	360.00	49.58	15.52
257	6.02	0.61	10.20	365.00	49.40	15.52
258	6.04	0.62	10.30	364.90	48.95	15.51
259	6.06	0.63	10.10	365.30	48.65	15.51
260	6.08	0.63	10.10	362.60	48.32	15.51
261	6.10	0.63	10.10	360.80	48.42	15.51
262	6.12	0.63	10.20	361.00	48.46	15.51
263	6.14	0.63	10.00	358.00	48.75	15.50
264	6.16	0.62	9.90	353.20	49.06	15.48
265	6.18	0.61	10.00	353.90	49.42	15.49
266	6.20	0.62	10.20	357.00	49.60	15.50
267	6.22	0.62	10.10	351.20	49.69	15.51
268	6.24	0.61	10.20	349.40	49.83	15.50
269	6.26	0.61	10.20	349.40	49.70	15.52
270	6.28	0.63	10.40	359.00	48.60	15.53
271	6.30	0.67	10.20	373.90	46.46	15.54
272	6.32	0.73	9.80	379.60	44.55	15.54
273	6.34	0.75	10.00	350.30	43.43	15.56
274	6.36	0.76	10.40	341.50	43.21	15.61
275	6.38	0.78	10.80	333.20	43.10	15.68
276	6.40	0.81	11.90	345.20	43.10	15.74
277	6.42	0.80	11.90	342.80	43.50	15.82
278	6.44	0.80	13.10	362.00	43.87	15.86
279	6.46	0.81	13.30	377.60	44.09	15.90
280	6.48	0.81	13.10	400.60	44.00	15.90
281	6.50	0.81	13.10	400.60	41.58	15.90
282	6.52	0.98	12.40	400.30	38.69	15.90
283	6.54	1.04	12.10	404.40	36.16	15.95
284	6.56	1.08	13.50	411.80	33.24	15.86
285	6.58	1.22	8.80	361.30	32.27	15.97
286	6.60	1.27	14.80	372.60	31.84	16.09
287	6.62	1.27	16.90	368.00	33.68	16.33
288	6.64	1.24	18.20	387.60	34.76	16.43

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	1.25	19.50	408.80	35.34	16.50
290	6.68	1.26	20.00	422.00	35.78	16.54
291	6.70	1.25	20.60	383.70	36.56	16.59
292	6.72	1.22	22.30	403.20	37.71	16.65
293	6.74	1.20	23.50	406.30	38.53	16.69
294	6.76	1.20	23.10	432.50	38.66	16.68
295	6.78	1.19	22.00	444.40	38.11	16.64
296	6.80	1.21	20.90	443.00	37.61	16.64
297	6.82	1.26	22.90	466.30	36.38	16.65
298	6.84	1.35	21.70	458.00	35.90	16.67
299	6.86	1.31	21.40	345.50	34.12	16.66
300	6.88	1.47	21.20	471.60	30.34	16.71
301	6.90	1.98	21.60	503.10	25.42	16.87
302	6.92	2.54	26.00	441.40	23.57	17.05
303	6.94	2.37	29.40	49.60	24.34	17.18
304	6.96	2.12	30.30	27.90	28.00	17.20
305	6.98	1.77	31.70	63.20	31.49	17.19
306	7.00	1.66	32.40	71.50	34.78	17.20
307	7.02	1.58	34.00	89.00	37.25	17.24
308	7.04	1.46	37.20	152.40	39.82	17.27
309	7.06	1.37	37.80	172.20	42.18	17.28
310	7.08	1.30	36.60	186.00	43.65	17.23
311	7.10	1.24	34.50	207.30	44.64	17.17
312	7.12	1.20	33.70	227.70	44.82	17.09
313	7.14	1.18	30.30	259.30	44.52	16.98
314	7.16	1.14	26.40	285.20	43.34	16.84
315	7.18	1.15	23.70	291.20	42.67	16.72
316	7.20	1.12	22.60	289.90	42.10	16.64
317	7.22	1.11	21.60	311.20	42.17	16.59
318	7.24	1.10	21.30	328.20	42.01	16.58
319	7.26	1.11	21.90	350.10	41.52	16.58
320	7.28	1.15	21.20	337.30	40.60	16.58
321	7.30	1.19	20.80	331.60	39.86	16.57
322	7.32	1.19	21.00	298.10	39.72	16.60
323	7.34	1.21	22.80	287.50	40.08	16.64
324	7.36	1.20	22.70	292.40	40.74	16.68
325	7.38	1.18	23.70	286.90	41.64	16.69
326	7.40	1.14	23.80	291.90	42.91	16.70
327	7.42	1.09	23.70	317.40	44.11	16.67
328	7.44	1.04	22.80	324.80	44.77	16.64
329	7.46	1.05	22.60	339.80	44.39	16.59
330	7.48	1.07	21.10	354.10	43.68	16.57
331	7.50	1.09	21.30	331.00	43.00	16.56
332	7.52	1.11	21.60	328.70	42.85	16.56
333	7.54	1.09	20.80	332.00	42.78	16.55
334	7.56	1.09	20.80	319.00	42.80	16.53
335	7.58	1.09	20.80	319.00	42.73	16.53
336	7.60	1.09	20.50	349.20	42.87	16.49

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	1.05	19.20	336.00	43.21	16.45
338	7.64	1.05	19.00	230.20	43.29	16.41
339	7.66	1.06	18.60	268.40	42.61	16.39
340	7.68	1.10	17.90	282.90	41.32	16.37
341	7.70	1.14	17.90	309.20	40.13	16.37
342	7.72	1.16	17.70	316.70	39.62	16.35
343	7.74	1.13	16.90	316.90	40.00	16.34
344	7.76	1.09	17.60	330.70	40.78	16.34
345	7.78	1.09	18.10	341.30	40.53	16.35
346	7.80	1.15	17.20	430.20	39.42	16.36
347	7.82	1.20	17.50	428.90	38.32	16.39
348	7.84	1.23	18.60	366.30	38.36	16.45
349	7.86	1.23	20.10	326.90	39.48	16.54
350	7.88	1.20	21.90	290.10	42.06	16.64
351	7.90	1.09	24.80	308.80	44.33	16.67
352	7.92	1.06	23.10	337.90	46.22	16.66
353	7.94	1.02	22.60	365.20	46.68	16.56
354	7.96	0.96	19.90	351.00	47.39	16.49
355	7.98	0.94	19.90	383.80	47.88	16.42
356	8.00	0.93	19.50	392.80	47.69	16.38
357	8.02	0.94	18.00	400.20	47.44	16.33
358	8.04	0.92	17.40	414.60	46.80	16.26
359	8.06	0.93	16.20	359.50	47.60	16.20
360	8.08	0.85	16.20	349.70	49.41	16.15
361	8.10	0.78	16.10	351.00	51.67	16.14
362	8.12	0.79	16.50	374.40	52.17	16.15
363	8.14	0.83	16.80	386.10	50.40	16.16
364	8.16	0.88	15.60	400.10	48.38	16.16
365	8.18	0.91	15.90	385.10	46.78	16.17
366	8.20	0.95	16.40	362.00	46.48	16.21
367	8.22	0.94	17.20	365.40	47.00	16.25
368	8.24	0.92	17.80	372.50	47.73	16.28
369	8.26	0.92	17.80	392.40	47.75	16.27
370	8.28	0.93	16.50	389.00	47.47	16.23
371	8.30	0.91	16.30	388.30	47.48	16.19
372	8.32	0.88	16.10	405.80	47.68	16.16
373	8.34	0.89	15.40	429.70	46.74	16.11
374	8.36	0.93	14.10	460.40	44.89	16.04
375	8.38	0.95	13.00	464.20	43.36	15.98
376	8.40	0.95	13.00	464.20	41.76	15.92
377	8.42	1.01	11.70	450.70	40.54	15.91
378	8.44	1.06	12.30	432.90	39.14	15.92
379	8.46	1.10	12.80	417.60	39.13	15.96
380	8.48	1.06	13.00	415.80	39.87	15.95
381	8.50	0.99	12.30	417.90	41.40	15.93
382	8.52	0.95	12.60	426.30	42.92	15.91
383	8.54	0.92	12.90	439.90	43.14	15.92
384	8.56	0.97	12.60	461.40	41.26	15.95

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	1.12	12.90	485.50	38.05	15.96
386	8.60	1.21	12.10	503.40	35.73	15.97
387	8.62	1.23	12.10	481.20	34.39	15.97
388	8.64	1.28	12.30	457.60	33.28	16.01
389	8.66	1.41	13.00	455.30	32.05	16.09
390	8.68	1.49	13.80	396.30	31.74	16.20
391	8.70	1.46	15.60	381.80	32.90	16.31
392	8.72	1.39	17.40	363.60	34.84	16.40
393	8.74	1.34	18.50	438.00	35.55	16.43
394	8.76	1.38	16.80	492.20	34.22	16.41
395	8.78	1.52	15.90	500.30	32.48	16.36
396	8.80	1.52	15.70	476.40	32.30	16.35
397	8.82	1.41	16.40	418.80	34.37	16.39
398	8.84	1.30	18.50	445.70	36.60	16.37
399	8.86	1.22	16.00	495.80	37.25	16.29
400	8.88	1.23	13.40	534.90	35.40	16.10
401	8.90	1.30	11.20	545.90	33.13	15.96
402	8.92	1.35	11.00	552.40	31.90	15.91
403	8.94	1.34	11.50	526.20	31.78	15.92
404	8.96	1.34	11.50	526.20	33.24	16.01
405	8.98	1.27	14.10	468.90	34.78	16.08
406	9.00	1.23	14.10	476.30	35.95	16.10
407	9.02	1.25	12.70	407.20	37.13	16.02
408	9.04	1.06	11.90	491.80	38.35	15.91
409	9.06	1.00	11.40	552.20	40.19	15.82
410	9.08	0.98	10.60	578.50	40.28	15.77
411	9.10	1.00	10.60	578.00	39.42	15.76
412	9.12	1.07	10.90	570.20	37.18	15.77
413	9.14	1.21	10.20	506.30	35.48	15.79
414	9.16	1.21	10.70	540.80	34.71	15.81
415	9.18	1.17	11.00	587.60	35.36	15.82
416	9.20	1.14	10.80	574.30	35.95	15.83
417	9.22	1.15	11.10	588.90	35.21	15.85
418	9.24	1.28	11.40	578.50	34.07	15.91
419	9.26	1.33	11.90	581.60	32.63	15.94
420	9.28	1.37	11.30	566.50	31.35	15.95
421	9.30	1.49	11.40	535.00	30.13	16.02
422	9.32	1.61	13.30	496.60	29.88	16.15
423	9.34	1.59	15.00	445.90	31.32	16.26
424	9.36	1.42	15.80	452.70	33.12	16.28
425	9.38	1.37	14.60	486.80	34.51	16.24
426	9.40	1.36	14.30	482.10	34.51	16.18
427	9.42	1.35	13.60	460.50	34.65	16.13
428	9.44	1.32	13.20	414.60	35.77	16.08
429	9.46	1.19	13.10	392.20	37.69	16.08
430	9.48	1.15	14.30	426.50	39.39	16.08
431	9.50	1.15	13.80	430.50	40.05	16.08
432	9.52	1.11	13.20	442.80	39.49	16.02

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
433	9.54	1.15	12.30	441.50	38.94	15.99
434	9.56	1.18	12.70	411.30	39.79	16.00
435	9.58	1.06	13.80	348.70	42.19	16.03
436	9.60	0.98	14.00	352.30	45.25	16.02
437	9.62	0.94	13.50	383.30	46.47	15.94
438	9.64	0.90	11.60	401.20	46.34	15.86
439	9.66	0.92	11.50	417.10	44.86	15.75
440	9.68	0.96	10.10	438.00	41.18	15.71
441	9.70	1.16	9.50	423.50	38.23	15.70
442	9.72	1.19	10.50	373.20	36.98	15.82
443	9.74	1.20	12.60	368.20	38.03	15.92
444	9.76	1.15	12.70	414.00	38.22	15.99
445	9.78	1.23	12.60	411.70	37.15	15.97
446	9.80	1.29	11.40	354.60	36.85	15.96
447	9.82	1.19	12.30	313.40	38.93	16.00
448	9.84	1.07	14.50	316.90	42.96	16.06
449	9.86	0.98	14.80	363.70	46.33	16.05
450	9.88	0.92	13.00	354.40	49.00	15.97
451	9.90	0.82	12.80	393.40	50.19	15.88
452	9.92	0.84	12.20	431.10	45.71	15.88
453	9.94	1.19	11.70	460.20	38.37	15.87
454	9.96	1.43	10.30	451.20	32.62	16.07
455	9.98	1.79	16.10	63.70	31.82	16.46
456	10.00	1.86	24.60	20.90	31.44	16.92
457	10.02	2.25	32.00	-0.20	32.83	17.30
458	10.04	2.23	43.00	-33.60	34.95	17.65
459	10.06	2.15	58.20	-48.00	40.17	18.01
460	10.08	2.06	81.90	-25.10	45.01	18.31
461	10.10	2.08	98.90	-10.60	48.91	18.55
462	10.12	2.10	115.80	-11.70	53.91	18.64
463	10.14	1.60	114.70	10.50	57.65	18.65
464	10.16	1.67	109.10	75.00	53.65	18.65
465	10.18	2.51	105.30	148.70	38.28	18.67
466	10.20	4.18	83.50	279.90	24.99	18.76
467	10.22	6.30	89.30	203.20	15.70	19.10
468	10.24	10.91	142.70	-16.90	11.87	19.56
469	10.26	13.51	185.80	-48.10	10.83	19.99
470	10.28	13.79	235.00	-58.90	10.51	20.23
471	10.30	15.49	251.50	-63.70	10.58	20.40
472	10.32	16.34	278.00	-64.50	10.26	20.52
473	10.34	16.91	299.60	-66.70	10.10	20.62
474	10.36	17.96	311.20	-66.30	9.80	20.68
475	10.38	18.52	311.20	-66.30	9.83	20.80
476	10.40	19.37	381.00	-66.20	9.65	20.95
477	10.42	22.42	430.70	-64.60	10.06	21.14
478	10.44	21.79	482.30	-54.50	9.73	21.31
479	10.46	25.62	544.50	-56.70	9.78	21.42
480	10.48	25.62	554.30	-52.40	8.93	21.53

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
481	10.50	29.52	584.80	-50.70	8.51	21.58

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	0.90	13.46	0.00	13.46	1.00	0.065	1.38	0.047	1.00	1.00	2.000	No
2	0.92	13.77	0.00	13.77	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
3	0.94	14.08	0.00	14.08	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
4	0.96	14.41	0.00	14.41	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
5	0.98	14.73	0.00	14.73	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
6	1.00	15.06	0.00	15.06	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
7	1.02	15.40	0.00	15.40	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
8	1.04	15.73	0.00	15.73	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
9	1.06	16.07	0.00	16.07	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
10	1.08	16.40	0.00	16.40	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
11	1.10	16.74	0.00	16.74	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
12	1.12	17.08	0.00	17.08	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
13	1.14	17.42	0.00	17.42	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
14	1.16	17.75	0.00	17.75	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
15	1.18	18.09	0.00	18.09	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
16	1.20	18.43	0.00	18.43	0.99	0.065	1.38	0.047	1.00	1.00	2.000	No
17	1.22	18.77	0.20	18.57	0.99	0.065	1.38	0.047	1.00	1.00	0.047	No
18	1.24	19.11	0.39	18.72	0.99	0.066	1.38	0.048	1.00	1.00	0.048	No
19	1.26	19.45	0.59	18.86	0.99	0.067	1.38	0.048	1.00	1.00	0.048	No
20	1.28	19.80	0.78	19.01	0.99	0.067	1.38	0.049	1.00	1.00	0.049	No
21	1.30	20.14	0.98	19.16	0.99	0.068	1.38	0.049	1.00	1.00	0.049	No
22	1.32	20.49	1.18	19.31	0.99	0.068	1.38	0.050	1.00	1.00	0.050	No
23	1.34	20.84	1.37	19.46	0.99	0.069	1.38	0.050	1.00	1.00	2.000	Yes
24	1.36	21.19	1.57	19.62	0.99	0.070	1.38	0.051	1.00	1.00	2.000	Yes
25	1.38	21.54	1.77	19.77	0.99	0.070	1.38	0.051	1.00	1.00	2.000	Yes
26	1.40	21.89	1.96	19.93	0.99	0.071	1.38	0.051	1.00	1.00	2.000	Yes
27	1.42	22.25	2.16	20.09	0.99	0.071	1.38	0.052	1.00	1.00	2.000	Yes
28	1.44	22.61	2.35	20.26	0.99	0.072	1.38	0.052	1.00	1.00	2.000	Yes
29	1.46	22.98	2.55	20.43	0.99	0.072	1.38	0.053	1.00	1.00	2.000	Yes
30	1.48	23.34	2.75	20.59	0.99	0.073	1.38	0.053	1.00	1.00	0.053	No
31	1.50	23.71	2.94	20.76	0.99	0.074	1.38	0.053	1.00	1.00	0.053	No
32	1.52	24.08	3.14	20.94	0.99	0.074	1.38	0.054	1.00	1.00	0.054	No
33	1.54	24.45	3.34	21.11	0.99	0.075	1.38	0.054	1.00	1.00	0.054	No
34	1.56	24.81	3.53	21.28	0.99	0.075	1.38	0.055	1.00	1.00	0.055	No
35	1.58	25.18	3.73	21.45	0.99	0.076	1.38	0.055	1.00	1.00	0.055	No
36	1.60	25.54	3.92	21.62	0.99	0.076	1.38	0.055	1.00	1.00	0.055	No
37	1.62	25.90	4.12	21.78	0.99	0.076	1.38	0.056	1.00	1.00	0.056	No
38	1.64	26.26	4.32	21.94	0.99	0.077	1.38	0.056	1.00	1.00	0.056	No
39	1.66	26.62	4.51	22.10	0.99	0.077	1.38	0.056	1.00	1.00	0.056	No
40	1.68	26.97	4.71	22.27	0.99	0.078	1.38	0.057	1.00	1.00	0.057	No
41	1.70	27.33	4.91	22.43	0.99	0.078	1.38	0.057	1.00	1.00	0.057	No
42	1.72	27.69	5.10	22.59	0.99	0.079	1.38	0.057	1.00	1.00	0.057	No
43	1.74	28.05	5.30	22.75	0.99	0.079	1.38	0.058	1.00	1.00	0.058	No
44	1.76	28.42	5.49	22.92	0.99	0.080	1.38	0.058	1.00	1.00	0.058	No
45	1.78	28.79	5.69	23.10	0.99	0.080	1.38	0.058	1.00	1.00	0.058	No
46	1.80	29.16	5.89	23.28	0.99	0.080	1.38	0.058	1.00	1.00	0.058	No
47	1.82	29.54	6.08	23.46	0.99	0.081	1.38	0.059	1.00	1.00	0.059	No
48	1.84	29.92	6.28	23.64	0.99	0.081	1.38	0.059	1.00	1.00	0.059	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	1.86	30.29	6.47	23.82	0.99	0.082	1.38	0.059	1.00	1.00	0.059	No
50	1.88	30.67	6.67	24.00	0.99	0.082	1.38	0.060	1.00	1.00	0.060	No
51	1.90	31.03	6.87	24.17	0.99	0.082	1.38	0.060	1.00	1.00	0.060	No
52	1.92	31.40	7.06	24.33	0.99	0.083	1.38	0.060	1.00	1.00	0.060	No
53	1.94	31.76	7.26	24.50	0.99	0.083	1.38	0.060	1.00	1.00	0.060	No
54	1.96	32.12	7.46	24.67	0.99	0.084	1.38	0.061	1.00	1.00	0.061	No
55	1.98	32.48	7.65	24.83	0.99	0.084	1.38	0.061	1.00	1.00	0.061	No
56	2.00	32.85	7.85	25.00	0.99	0.084	1.38	0.061	1.00	1.00	0.061	No
57	2.02	33.21	8.04	25.16	0.99	0.085	1.38	0.062	1.00	1.00	0.062	No
58	2.04	33.57	8.24	25.32	0.99	0.085	1.38	0.062	1.00	1.00	0.062	No
59	2.06	33.92	8.44	25.49	0.99	0.085	1.38	0.062	1.00	1.00	0.062	No
60	2.08	34.28	8.63	25.65	0.99	0.086	1.38	0.062	1.00	1.00	0.062	No
61	2.10	34.64	8.83	25.81	0.99	0.086	1.38	0.063	1.00	1.00	0.063	No
62	2.12	34.99	9.03	25.97	0.99	0.086	1.38	0.063	1.00	1.00	0.063	No
63	2.14	35.35	9.22	26.13	0.99	0.087	1.38	0.063	1.00	1.00	0.063	No
64	2.16	35.70	9.42	26.29	0.99	0.087	1.38	0.063	1.00	1.00	0.063	No
65	2.18	36.06	9.61	26.44	0.99	0.087	1.38	0.063	1.00	1.00	0.063	No
66	2.20	36.41	9.81	26.60	0.99	0.088	1.38	0.064	1.00	1.00	0.064	No
67	2.22	36.77	10.01	26.76	0.99	0.088	1.38	0.064	1.00	1.00	0.064	No
68	2.24	37.12	10.20	26.92	0.98	0.088	1.38	0.064	1.00	1.00	0.064	No
69	2.26	37.48	10.40	27.08	0.98	0.089	1.38	0.064	1.00	1.00	0.064	No
70	2.28	37.83	10.59	27.24	0.98	0.089	1.38	0.065	1.00	1.00	0.065	No
71	2.30	38.19	10.79	27.40	0.98	0.089	1.38	0.065	1.00	1.00	0.065	No
72	2.32	38.55	10.99	27.56	0.98	0.089	1.38	0.065	1.00	1.00	0.065	No
73	2.34	38.92	11.18	27.73	0.98	0.090	1.38	0.065	1.00	1.00	0.065	No
74	2.36	39.28	11.38	27.90	0.98	0.090	1.38	0.065	1.00	1.00	0.065	No
75	2.38	39.65	11.58	28.08	0.98	0.090	1.38	0.066	1.00	1.00	0.066	No
76	2.40	40.02	11.77	28.25	0.98	0.091	1.38	0.066	1.00	1.00	0.066	No
77	2.42	40.39	11.97	28.42	0.98	0.091	1.38	0.066	1.00	1.00	0.066	No
78	2.44	40.76	12.16	28.59	0.98	0.091	1.38	0.066	1.00	1.00	2.000	Yes
79	2.46	41.12	12.36	28.76	0.98	0.091	1.38	0.066	1.00	1.00	2.000	Yes
80	2.48	41.49	12.56	28.93	0.98	0.092	1.38	0.067	1.00	1.00	2.000	Yes
81	2.50	41.86	12.75	29.10	0.98	0.092	1.38	0.067	1.00	1.00	2.000	Yes
82	2.52	42.22	12.95	29.27	0.98	0.092	1.38	0.067	1.00	1.00	2.000	Yes
83	2.54	42.59	13.15	29.44	0.98	0.092	1.38	0.067	1.00	1.00	2.000	Yes
84	2.56	42.95	13.34	29.61	0.98	0.093	1.38	0.067	1.00	1.00	2.000	Yes
85	2.58	43.32	13.54	29.78	0.98	0.093	1.38	0.068	1.00	1.00	2.000	Yes
86	2.60	43.68	13.73	29.94	0.98	0.093	1.38	0.068	1.00	1.00	2.000	Yes
87	2.62	44.03	13.93	30.10	0.98	0.093	1.38	0.068	1.00	1.00	2.000	Yes
88	2.64	44.38	14.13	30.26	0.98	0.094	1.38	0.068	1.00	1.00	2.000	Yes
89	2.66	44.74	14.32	30.41	0.98	0.094	1.38	0.068	1.00	1.00	2.000	Yes
90	2.68	45.09	14.52	30.57	0.98	0.094	1.38	0.068	1.00	1.00	2.000	Yes
91	2.70	45.44	14.72	30.73	0.98	0.094	1.38	0.069	1.00	1.00	2.000	Yes
92	2.72	45.80	14.91	30.89	0.98	0.095	1.38	0.069	1.00	1.00	2.000	Yes
93	2.74	46.16	15.11	31.05	0.98	0.095	1.38	0.069	1.00	1.00	2.000	Yes
94	2.76	46.52	15.30	31.22	0.98	0.095	1.38	0.069	1.00	1.00	0.069	No
95	2.78	46.88	15.50	31.38	0.98	0.095	1.38	0.069	1.00	1.00	0.069	No
96	2.80	47.24	15.70	31.54	0.98	0.095	1.38	0.069	1.00	1.00	0.069	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	2.82	47.59	15.89	31.70	0.98	0.096	1.38	0.070	1.00	1.00	0.070	No
98	2.84	47.94	16.09	31.86	0.98	0.096	1.38	0.070	1.00	1.00	0.070	No
99	2.86	48.29	16.28	32.01	0.98	0.096	1.38	0.070	1.00	1.00	0.070	No
100	2.88	48.63	16.48	32.15	0.98	0.096	1.38	0.070	1.00	1.00	0.070	No
101	2.90	48.98	16.68	32.30	0.98	0.097	1.38	0.070	1.00	1.00	0.070	No
102	2.92	49.32	16.87	32.45	0.98	0.097	1.38	0.070	1.00	1.00	0.070	No
103	2.94	49.67	17.07	32.60	0.98	0.097	1.38	0.071	1.00	1.00	0.071	No
104	2.96	50.02	17.27	32.75	0.98	0.097	1.38	0.071	1.00	1.00	0.071	No
105	2.98	50.37	17.46	32.91	0.98	0.097	1.38	0.071	1.00	1.00	0.071	No
106	3.00	50.72	17.66	33.06	0.98	0.098	1.38	0.071	1.00	1.00	0.071	No
107	3.02	51.06	17.85	33.21	0.98	0.098	1.38	0.071	1.00	1.00	0.071	No
108	3.04	51.41	18.05	33.36	0.98	0.098	1.38	0.071	1.00	1.00	0.071	No
109	3.06	51.75	18.25	33.51	0.98	0.098	1.38	0.071	1.00	1.00	0.071	No
110	3.08	52.09	18.44	33.65	0.98	0.099	1.38	0.072	1.00	1.00	0.072	No
111	3.10	52.44	18.64	33.80	0.98	0.099	1.38	0.072	1.00	1.00	0.072	No
112	3.12	52.78	18.84	33.95	0.98	0.099	1.38	0.072	1.00	1.00	0.072	No
113	3.14	53.13	19.03	34.10	0.98	0.099	1.38	0.072	1.00	1.00	0.072	No
114	3.16	53.49	19.23	34.26	0.98	0.099	1.38	0.072	1.00	1.00	0.072	No
115	3.18	53.85	19.42	34.43	0.98	0.099	1.38	0.072	1.00	1.00	0.072	No
116	3.20	54.21	19.62	34.59	0.98	0.100	1.38	0.072	1.00	1.00	0.072	No
117	3.22	54.57	19.82	34.75	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
118	3.24	54.93	20.01	34.92	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
119	3.26	55.29	20.21	35.08	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
120	3.28	55.66	20.40	35.25	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
121	3.30	56.02	20.60	35.42	0.98	0.100	1.38	0.073	1.00	1.00	0.073	No
122	3.32	56.38	20.80	35.59	0.98	0.101	1.38	0.073	1.00	1.00	0.073	No
123	3.34	56.74	20.99	35.75	0.98	0.101	1.38	0.073	1.00	1.00	0.073	No
124	3.36	57.11	21.19	35.92	0.98	0.101	1.38	0.073	1.00	1.00	0.073	No
125	3.38	57.48	21.39	36.09	0.98	0.101	1.38	0.073	1.00	1.00	0.073	No
126	3.40	57.84	21.58	36.26	0.98	0.101	1.38	0.074	1.00	1.00	0.074	No
127	3.42	58.21	21.78	36.43	0.98	0.101	1.38	0.074	1.00	1.00	0.074	No
128	3.44	58.57	21.97	36.60	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
129	3.46	58.93	22.17	36.76	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
130	3.48	59.29	22.37	36.92	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
131	3.50	59.65	22.56	37.08	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
132	3.52	60.00	22.76	37.24	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
133	3.54	60.35	22.96	37.39	0.98	0.102	1.38	0.074	1.00	1.00	0.074	No
134	3.56	60.69	23.15	37.54	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
135	3.58	61.04	23.35	37.69	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
136	3.60	61.38	23.54	37.83	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
137	3.62	61.72	23.74	37.98	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
138	3.64	62.06	23.94	38.13	0.98	0.103	1.38	0.075	1.00	1.00	0.075	No
139	3.66	62.40	24.13	38.27	0.97	0.103	1.38	0.075	1.00	1.00	0.075	No
140	3.68	62.74	24.33	38.41	0.97	0.103	1.38	0.075	1.00	1.00	0.075	No
141	3.70	63.08	24.53	38.55	0.97	0.104	1.38	0.075	1.00	1.00	0.075	No
142	3.72	63.41	24.72	38.69	0.97	0.104	1.38	0.075	1.00	1.00	0.075	No
143	3.74	63.75	24.92	38.83	0.97	0.104	1.38	0.076	1.00	1.00	0.076	No
144	3.76	64.08	25.11	38.97	0.97	0.104	1.38	0.076	1.00	1.00	0.076	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	3.78	64.42	25.31	39.11	0.97	0.104	1.38	0.076	1.00	1.00	0.076	No
146	3.80	64.76	25.51	39.25	0.97	0.104	1.38	0.076	1.00	1.00	2.000	Yes
147	3.82	65.09	25.70	39.39	0.97	0.105	1.38	0.076	1.00	1.00	2.000	Yes
148	3.84	65.43	25.90	39.53	0.97	0.105	1.38	0.076	1.00	1.00	2.000	Yes
149	3.86	65.76	26.09	39.67	0.97	0.105	1.38	0.076	1.00	1.00	2.000	Yes
150	3.88	66.09	26.29	39.80	0.97	0.105	1.38	0.076	1.00	1.00	2.000	Yes
151	3.90	66.42	26.49	39.93	0.97	0.105	1.38	0.076	1.00	1.00	2.000	Yes
152	3.92	66.75	26.68	40.07	0.97	0.105	1.38	0.077	1.00	1.00	2.000	Yes
153	3.94	67.08	26.88	40.20	0.97	0.106	1.38	0.077	1.00	1.00	2.000	Yes
154	3.96	67.42	27.08	40.34	0.97	0.106	1.38	0.077	1.00	1.00	2.000	Yes
155	3.98	67.75	27.27	40.48	0.97	0.106	1.38	0.077	1.00	1.00	2.000	Yes
156	4.00	68.08	27.47	40.61	0.97	0.106	1.38	0.077	1.00	1.00	2.000	Yes
157	4.02	68.41	27.66	40.75	0.97	0.106	1.38	0.077	1.00	1.00	2.000	Yes
158	4.04	68.75	27.86	40.89	0.97	0.106	1.38	0.077	1.00	1.00	2.000	Yes
159	4.06	69.10	28.06	41.04	0.97	0.106	1.38	0.077	1.00	1.00	2.000	Yes
160	4.08	69.45	28.25	41.20	0.97	0.107	1.38	0.077	1.00	1.00	2.000	Yes
161	4.10	69.80	28.45	41.35	0.97	0.107	1.38	0.077	1.00	1.00	2.000	Yes
162	4.12	70.15	28.65	41.51	0.97	0.107	1.38	0.078	1.00	1.00	2.000	Yes
163	4.14	70.51	28.84	41.67	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
164	4.16	70.86	29.04	41.82	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
165	4.18	71.21	29.23	41.98	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
166	4.20	71.57	29.43	42.14	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
167	4.22	71.92	29.63	42.30	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
168	4.24	72.27	29.82	42.45	0.97	0.107	1.38	0.078	1.00	1.00	0.078	No
169	4.26	72.62	30.02	42.60	0.97	0.108	1.38	0.078	1.00	1.00	0.078	No
170	4.28	72.97	30.21	42.76	0.97	0.108	1.38	0.078	1.00	1.00	0.078	No
171	4.30	73.32	30.41	42.91	0.97	0.108	1.38	0.078	1.00	1.00	0.078	No
172	4.32	73.66	30.61	43.05	0.97	0.108	1.38	0.078	1.00	1.00	0.078	No
173	4.34	74.00	30.80	43.19	0.97	0.108	1.38	0.079	1.00	1.00	0.079	No
174	4.36	74.33	31.00	43.33	0.97	0.108	1.38	0.079	1.00	1.00	0.079	No
175	4.38	74.67	31.20	43.47	0.97	0.108	1.38	0.079	1.00	1.00	0.079	No
176	4.40	75.00	31.39	43.61	0.97	0.108	1.38	0.079	1.00	1.00	0.079	No
177	4.42	75.33	31.59	43.75	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
178	4.44	75.67	31.78	43.88	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
179	4.46	76.00	31.98	44.02	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
180	4.48	76.33	32.18	44.15	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
181	4.50	76.66	32.37	44.29	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
182	4.52	77.00	32.57	44.43	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
183	4.54	77.33	32.77	44.56	0.97	0.109	1.38	0.079	1.00	1.00	0.079	No
184	4.56	77.66	32.96	44.70	0.97	0.109	1.38	0.080	1.00	1.00	0.080	No
185	4.58	77.99	33.16	44.83	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
186	4.60	78.31	33.35	44.96	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
187	4.62	78.64	33.55	45.09	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
188	4.64	78.96	33.75	45.22	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
189	4.66	79.28	33.94	45.34	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
190	4.68	79.60	34.14	45.46	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
191	4.70	79.92	34.34	45.59	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No
192	4.72	80.24	34.53	45.71	0.97	0.110	1.38	0.080	1.00	1.00	0.080	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	4.74	80.56	34.73	45.83	0.97	0.111	1.38	0.080	1.00	1.00	0.080	No
194	4.76	80.87	34.92	45.95	0.97	0.111	1.38	0.080	1.00	1.00	0.080	No
195	4.78	81.19	35.12	46.07	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
196	4.80	81.51	35.32	46.20	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
197	4.82	81.83	35.51	46.32	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
198	4.84	82.15	35.71	46.44	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
199	4.86	82.47	35.90	46.56	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
200	4.88	82.78	36.10	46.68	0.97	0.111	1.38	0.081	1.00	1.00	0.081	No
201	4.90	83.10	36.30	46.80	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
202	4.92	83.41	36.49	46.92	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
203	4.94	83.72	36.69	47.03	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
204	4.96	84.03	36.89	47.15	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
205	4.98	84.35	37.08	47.26	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
206	5.00	84.66	37.28	47.38	0.97	0.112	1.38	0.081	1.00	1.00	0.081	No
207	5.02	84.97	37.47	47.49	0.97	0.112	1.38	0.082	1.00	1.00	0.082	No
208	5.04	85.28	37.67	47.61	0.97	0.112	1.38	0.082	1.00	1.00	0.082	No
209	5.06	85.59	37.87	47.72	0.97	0.113	1.38	0.082	1.00	1.00	0.082	No
210	5.08	85.90	38.06	47.83	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
211	5.10	86.21	38.26	47.95	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
212	5.12	86.52	38.46	48.06	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
213	5.14	86.82	38.65	48.17	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
214	5.16	87.13	38.85	48.28	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
215	5.18	87.44	39.04	48.40	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
216	5.20	87.75	39.24	48.51	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
217	5.22	88.06	39.44	48.62	0.96	0.113	1.38	0.082	1.00	1.00	0.082	No
218	5.24	88.37	39.63	48.74	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
219	5.26	88.68	39.83	48.85	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
220	5.28	88.99	40.02	48.96	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
221	5.30	89.29	40.22	49.07	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
222	5.32	89.60	40.42	49.19	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
223	5.34	89.91	40.61	49.30	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
224	5.36	90.22	40.81	49.41	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
225	5.38	90.52	41.01	49.52	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
226	5.40	90.83	41.20	49.63	0.96	0.114	1.38	0.083	1.00	1.00	0.083	No
227	5.42	91.15	41.40	49.75	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
228	5.44	91.47	41.59	49.87	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
229	5.46	91.79	41.79	50.00	0.96	0.115	1.38	0.083	1.00	1.00	0.083	No
230	5.48	92.10	41.99	50.12	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
231	5.50	92.42	42.18	50.24	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
232	5.52	92.74	42.38	50.36	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
233	5.54	93.05	42.58	50.47	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
234	5.56	93.36	42.77	50.59	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
235	5.58	93.67	42.97	50.70	0.96	0.115	1.38	0.084	1.00	1.00	0.084	No
236	5.60	93.98	43.16	50.82	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
237	5.62	94.29	43.36	50.93	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
238	5.64	94.60	43.56	51.05	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
239	5.66	94.91	43.75	51.16	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
240	5.68	95.22	43.95	51.27	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	5.70	95.53	44.15	51.39	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
242	5.72	95.84	44.34	51.50	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
243	5.74	96.16	44.54	51.62	0.96	0.116	1.38	0.084	1.00	1.00	0.084	No
244	5.76	96.47	44.73	51.73	0.96	0.116	1.38	0.085	1.00	1.00	0.085	No
245	5.78	96.78	44.93	51.85	0.96	0.116	1.38	0.085	1.00	1.00	0.085	No
246	5.80	97.09	45.13	51.96	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
247	5.82	97.40	45.32	52.08	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
248	5.84	97.71	45.52	52.20	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
249	5.86	98.03	45.71	52.31	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
250	5.88	98.34	45.91	52.43	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
251	5.90	98.65	46.11	52.54	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
252	5.92	98.96	46.30	52.66	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
253	5.94	99.27	46.50	52.77	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
254	5.96	99.58	46.70	52.89	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
255	5.98	99.89	46.89	53.00	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
256	6.00	100.20	47.09	53.12	0.96	0.117	1.38	0.085	1.00	1.00	0.085	No
257	6.02	100.51	47.28	53.23	0.96	0.118	1.38	0.085	1.00	1.00	0.085	No
258	6.04	100.82	47.48	53.34	0.96	0.118	1.38	0.085	1.00	1.00	0.085	No
259	6.06	101.13	47.68	53.46	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
260	6.08	101.44	47.87	53.57	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
261	6.10	101.75	48.07	53.69	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
262	6.12	102.07	48.27	53.80	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
263	6.14	102.37	48.46	53.91	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
264	6.16	102.68	48.66	54.03	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
265	6.18	102.99	48.85	54.14	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
266	6.20	103.30	49.05	54.25	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
267	6.22	103.61	49.25	54.37	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
268	6.24	103.92	49.44	54.48	0.96	0.118	1.38	0.086	1.00	1.00	0.086	No
269	6.26	104.23	49.64	54.60	0.96	0.119	1.38	0.086	1.00	1.00	0.086	No
270	6.28	104.55	49.83	54.71	0.96	0.119	1.38	0.086	1.00	1.00	0.086	No
271	6.30	104.86	50.03	54.83	0.96	0.119	1.38	0.086	1.00	1.00	0.086	No
272	6.32	105.17	50.23	54.94	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
273	6.34	105.48	50.42	55.05	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
274	6.36	105.79	50.62	55.17	0.95	0.119	1.38	0.086	1.00	1.00	0.086	No
275	6.38	106.10	50.82	55.29	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
276	6.40	106.42	51.01	55.41	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
277	6.42	106.74	51.21	55.53	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
278	6.44	107.05	51.40	55.65	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
279	6.46	107.37	51.60	55.77	0.95	0.119	1.38	0.087	1.00	1.00	0.087	No
280	6.48	107.69	51.80	55.89	0.95	0.119	1.38	0.087	1.00	1.00	2.000	Yes
281	6.50	108.01	51.99	56.01	0.95	0.119	1.38	0.087	1.00	1.00	2.000	Yes
282	6.52	108.32	52.19	56.14	0.95	0.120	1.38	0.087	1.00	1.00	2.000	Yes
283	6.54	108.64	52.39	56.26	0.95	0.120	1.38	0.087	1.00	1.00	2.000	Yes
284	6.56	108.96	52.58	56.38	0.95	0.120	1.38	0.087	1.00	1.00	2.000	Yes
285	6.58	109.28	52.78	56.50	0.95	0.120	1.38	0.087	1.00	1.00	2.000	Yes
286	6.60	109.60	52.97	56.63	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
287	6.62	109.93	53.17	56.76	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
288	6.64	110.26	53.37	56.89	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	6.66	110.59	53.56	57.02	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
290	6.68	110.92	53.76	57.16	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
291	6.70	111.25	53.96	57.29	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
292	6.72	111.58	54.15	57.43	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
293	6.74	111.92	54.35	57.57	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
294	6.76	112.25	54.54	57.71	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
295	6.78	112.58	54.74	57.84	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
296	6.80	112.92	54.94	57.98	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
297	6.82	113.25	55.13	58.12	0.95	0.120	1.38	0.087	1.00	1.00	0.087	No
298	6.84	113.58	55.33	58.25	0.95	0.120	1.38	0.088	1.00	1.00	2.000	Yes
299	6.86	113.91	55.52	58.39	0.95	0.120	1.38	0.088	1.00	1.00	2.000	Yes
300	6.88	114.25	55.72	58.53	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
301	6.90	114.59	55.92	58.67	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
302	6.92	114.93	56.11	58.81	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
303	6.94	115.27	56.31	58.96	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
304	6.96	115.61	56.51	59.11	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
305	6.98	115.96	56.70	59.26	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
306	7.00	116.30	56.90	59.40	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
307	7.02	116.65	57.09	59.55	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
308	7.04	116.99	57.29	59.70	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
309	7.06	117.34	57.49	59.85	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
310	7.08	117.68	57.68	60.00	0.95	0.121	1.38	0.088	1.00	1.00	2.000	Yes
311	7.10	118.03	57.88	60.15	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
312	7.12	118.37	58.08	60.29	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
313	7.14	118.71	58.27	60.44	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
314	7.16	119.04	58.47	60.58	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
315	7.18	119.38	58.66	60.72	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
316	7.20	119.71	58.86	60.85	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
317	7.22	120.04	59.06	60.99	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
318	7.24	120.38	59.25	61.12	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
319	7.26	120.71	59.45	61.26	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
320	7.28	121.04	59.64	61.39	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
321	7.30	121.37	59.84	61.53	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
322	7.32	121.70	60.04	61.66	0.95	0.121	1.38	0.088	1.00	1.00	0.088	No
323	7.34	122.03	60.23	61.80	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
324	7.36	122.37	60.43	61.94	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
325	7.38	122.70	60.63	62.08	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
326	7.40	123.04	60.82	62.21	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
327	7.42	123.37	61.02	62.35	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
328	7.44	123.70	61.21	62.49	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
329	7.46	124.03	61.41	62.62	0.94	0.121	1.38	0.088	1.00	1.00	0.088	No
330	7.48	124.37	61.61	62.76	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No
331	7.50	124.70	61.80	62.89	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No
332	7.52	125.03	62.00	63.03	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No
333	7.54	125.36	62.20	63.16	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No
334	7.56	125.69	62.39	63.30	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No
335	7.58	126.02	62.59	63.43	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No
336	7.60	126.35	62.78	63.57	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	7.62	126.68	62.98	63.70	0.94	0.122	1.38	0.088	1.00	1.00	0.088	No
338	7.64	127.01	63.18	63.83	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
339	7.66	127.33	63.37	63.96	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
340	7.68	127.66	63.57	64.09	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
341	7.70	127.99	63.77	64.22	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
342	7.72	128.32	63.96	64.36	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
343	7.74	128.64	64.16	64.49	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
344	7.76	128.97	64.35	64.62	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
345	7.78	129.30	64.55	64.75	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
346	7.80	129.62	64.75	64.88	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
347	7.82	129.95	64.94	65.01	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
348	7.84	130.28	65.14	65.14	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
349	7.86	130.61	65.33	65.28	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
350	7.88	130.94	65.53	65.41	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
351	7.90	131.28	65.73	65.55	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
352	7.92	131.61	65.92	65.69	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
353	7.94	131.94	66.12	65.82	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
354	7.96	132.27	66.32	65.96	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
355	7.98	132.60	66.51	66.09	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
356	8.00	132.93	66.71	66.22	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
357	8.02	133.26	66.90	66.35	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
358	8.04	133.58	67.10	66.48	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
359	8.06	133.90	67.30	66.61	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
360	8.08	134.23	67.49	66.73	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
361	8.10	134.55	67.69	66.86	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
362	8.12	134.87	67.89	66.99	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
363	8.14	135.20	68.08	67.11	0.94	0.122	1.38	0.089	1.00	1.00	0.089	No
364	8.16	135.52	68.28	67.24	0.94	0.123	1.38	0.089	1.00	1.00	0.089	No
365	8.18	135.84	68.47	67.37	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
366	8.20	136.17	68.67	67.50	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
367	8.22	136.49	68.87	67.63	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
368	8.24	136.82	69.06	67.76	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
369	8.26	137.14	69.26	67.88	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
370	8.28	137.47	69.45	68.01	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
371	8.30	137.79	69.65	68.14	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
372	8.32	138.11	69.85	68.27	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
373	8.34	138.44	70.04	68.39	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
374	8.36	138.76	70.24	68.52	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
375	8.38	139.08	70.44	68.64	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
376	8.40	139.40	70.63	68.76	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
377	8.42	139.71	70.83	68.89	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
378	8.44	140.03	71.02	69.01	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
379	8.46	140.35	71.22	69.13	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
380	8.48	140.67	71.42	69.25	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
381	8.50	140.99	71.61	69.38	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
382	8.52	141.31	71.81	69.50	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
383	8.54	141.63	72.01	69.62	0.93	0.123	1.38	0.089	1.00	1.00	2.000	Yes
384	8.56	141.94	72.20	69.74	0.93	0.123	1.38	0.089	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	8.58	142.26	72.40	69.87	0.93	0.123	1.38	0.089	1.00	1.00	2.000	Yes
386	8.60	142.58	72.59	69.99	0.93	0.123	1.38	0.089	1.00	1.00	2.000	Yes
387	8.62	142.90	72.79	70.11	0.93	0.123	1.38	0.089	1.00	1.00	2.000	Yes
388	8.64	143.22	72.99	70.24	0.93	0.123	1.38	0.089	1.00	1.00	2.000	Yes
389	8.66	143.54	73.18	70.36	0.93	0.123	1.38	0.089	1.00	1.00	2.000	Yes
390	8.68	143.87	73.38	70.49	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
391	8.70	144.19	73.58	70.62	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
392	8.72	144.52	73.77	70.75	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
393	8.74	144.85	73.97	70.88	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
394	8.76	145.18	74.16	71.02	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
395	8.78	145.51	74.36	71.15	0.93	0.123	1.38	0.089	1.00	1.00	0.089	No
396	8.80	145.83	74.56	71.28	0.93	0.123	1.38	0.090	1.00	1.00	0.090	No
397	8.82	146.16	74.75	71.41	0.93	0.123	1.38	0.090	1.00	1.00	0.090	No
398	8.84	146.49	74.95	71.54	0.93	0.123	1.38	0.090	1.00	1.00	0.090	No
399	8.86	146.81	75.14	71.67	0.93	0.123	1.38	0.090	1.00	1.00	2.000	Yes
400	8.88	147.14	75.34	71.80	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
401	8.90	147.46	75.54	71.92	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
402	8.92	147.77	75.73	72.04	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
403	8.94	148.09	75.93	72.16	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
404	8.96	148.41	76.13	72.29	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
405	8.98	148.73	76.32	72.41	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
406	9.00	149.06	76.52	72.54	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
407	9.02	149.38	76.71	72.66	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
408	9.04	149.69	76.91	72.78	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
409	9.06	150.01	77.11	72.90	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
410	9.08	150.33	77.30	73.02	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
411	9.10	150.64	77.50	73.14	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
412	9.12	150.96	77.70	73.26	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
413	9.14	151.27	77.89	73.38	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
414	9.16	151.59	78.09	73.50	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
415	9.18	151.91	78.28	73.62	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
416	9.20	152.22	78.48	73.74	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
417	9.22	152.54	78.68	73.86	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
418	9.24	152.86	78.87	73.98	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
419	9.26	153.18	79.07	74.11	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
420	9.28	153.49	79.26	74.23	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
421	9.30	153.82	79.46	74.35	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
422	9.32	154.14	79.66	74.48	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
423	9.34	154.46	79.85	74.61	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
424	9.36	154.79	80.05	74.74	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
425	9.38	155.11	80.25	74.87	0.92	0.123	1.38	0.090	1.00	1.00	2.000	Yes
426	9.40	155.44	80.44	75.00	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
427	9.42	155.76	80.64	75.12	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
428	9.44	156.08	80.83	75.25	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
429	9.46	156.40	81.03	75.37	0.92	0.123	1.38	0.090	1.00	1.00	0.090	No
430	9.48	156.73	81.23	75.50	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
431	9.50	157.05	81.42	75.62	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
432	9.52	157.37	81.62	75.75	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
433	9.54	157.69	81.82	75.87	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
434	9.56	158.01	82.01	76.00	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
435	9.58	158.33	82.21	76.12	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
436	9.60	158.65	82.40	76.24	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
437	9.62	158.97	82.60	76.37	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
438	9.64	159.28	82.80	76.49	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
439	9.66	159.60	82.99	76.61	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
440	9.68	159.91	83.19	76.72	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
441	9.70	160.23	83.39	76.84	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
442	9.72	160.54	83.58	76.96	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
443	9.74	160.86	83.78	77.08	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
444	9.76	161.18	83.97	77.21	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
445	9.78	161.50	84.17	77.33	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
446	9.80	161.82	84.37	77.45	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
447	9.82	162.14	84.56	77.58	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
448	9.84	162.46	84.76	77.70	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
449	9.86	162.78	84.95	77.83	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
450	9.88	163.10	85.15	77.95	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
451	9.90	163.42	85.35	78.07	0.91	0.123	1.38	0.090	1.00	1.00	2.000	Yes
452	9.92	163.74	85.54	78.19	0.91	0.123	1.38	0.090	1.00	1.00	2.000	Yes
453	9.94	164.05	85.74	78.32	0.91	0.123	1.38	0.090	1.00	1.00	2.000	Yes
454	9.96	164.38	85.94	78.44	0.91	0.123	1.38	0.090	1.00	1.00	2.000	Yes
455	9.98	164.71	86.13	78.57	0.91	0.123	1.38	0.090	1.00	1.00	0.090	No
456	10.00	165.04	86.33	78.72	0.90	0.123	1.38	0.090	1.00	1.00	2.000	Yes
457	10.02	165.39	86.52	78.87	0.90	0.123	1.38	0.090	1.00	1.00	2.000	Yes
458	10.04	165.74	86.72	79.02	0.90	0.123	1.38	0.090	1.00	1.00	2.000	Yes
459	10.06	166.10	86.92	79.19	0.90	0.123	1.38	0.090	1.00	1.00	2.000	Yes
460	10.08	166.47	87.11	79.36	0.90	0.123	1.38	0.090	1.00	1.00	2.000	Yes
461	10.10	166.84	87.31	79.53	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
462	10.12	167.21	87.51	79.71	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
463	10.14	167.59	87.70	79.88	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
464	10.16	167.96	87.90	80.06	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
465	10.18	168.33	88.09	80.24	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
466	10.20	168.71	88.29	80.42	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
467	10.22	169.09	88.49	80.60	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
468	10.24	169.48	88.68	80.80	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
469	10.26	169.88	88.88	81.00	0.90	0.123	1.38	0.089	1.00	1.00	2.000	Yes
470	10.28	170.29	89.07	81.21	0.90	0.123	1.38	0.089	1.00	1.00	0.089	No
471	10.30	170.69	89.27	81.42	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
472	10.32	171.10	89.47	81.64	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
473	10.34	171.52	89.66	81.85	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
474	10.36	171.93	89.86	82.07	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
475	10.38	172.35	90.06	82.29	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
476	10.40	172.76	90.25	82.51	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
477	10.42	173.19	90.45	82.74	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
478	10.44	173.61	90.64	82.97	0.90	0.122	1.38	0.089	1.00	1.00	0.089	No
479	10.46	174.04	90.84	83.20	0.90	0.122	1.38	0.088	1.00	1.00	0.088	No
480	10.48	174.47	91.04	83.44	0.89	0.122	1.38	0.088	1.00	1.00	0.088	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
481	10.50	174.90	91.23	83.67	0.89	0.122	1.38	0.088	1.00	1.00	0.088	No

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	0.90	0.19	3.53	5.59	1.00	3.43	22.59	77.38	4.000	No	Yes	2.00
2	0.92	0.19	3.60	7.34	1.00	3.42	25.32	86.46	4.000	No	Yes	2.00
3	0.94	0.30	3.35	5.45	1.00	5.69	16.45	93.67	4.000	No	Yes	2.00
4	0.96	0.55	3.02	3.60	1.00	10.64	9.14	97.22	4.000	No	Yes	2.00
5	0.98	0.89	2.74	2.33	0.90	17.23	5.14	88.55	4.000	No	Yes	2.00
6	1.00	1.09	2.63	2.01	0.86	21.15	6.56	138.79	4.000	No	No	2.00
7	1.02	1.12	2.62	2.04	0.86	21.83	6.29	137.29	4.000	No	No	2.00
8	1.04	1.04	2.69	2.38	0.88	20.21	9.54	192.78	4.000	No	No	2.00
9	1.06	0.98	2.75	2.77	0.91	18.93	5.27	99.79	4.000	No	Yes	2.00
10	1.08	1.02	2.74	2.81	0.90	19.82	5.14	101.88	4.000	No	Yes	2.00
11	1.10	1.08	2.72	2.78	0.89	21.03	4.88	102.70	4.000	No	Yes	2.00
12	1.12	1.13	2.69	2.63	0.88	22.04	9.33	205.70	4.000	No	No	2.00
13	1.14	1.08	2.70	2.64	0.89	20.91	4.75	99.39	4.000	No	Yes	2.00
14	1.16	1.03	2.72	2.64	0.90	20.00	4.93	98.53	4.000	No	Yes	2.00
15	1.18	1.08	2.69	2.54	0.88	21.02	9.73	204.55	4.000	No	No	2.00
16	1.20	1.19	2.64	2.40	0.87	23.18	7.17	166.31	4.000	No	No	2.00
17	1.22	1.30	2.61	2.38	0.85	25.24	5.88	148.44	0.346	No	No	2.00
18	1.24	1.32	2.63	2.57	0.86	25.66	6.46	165.69	0.453	No	No	2.00
19	1.26	1.29	2.66	2.87	0.87	25.17	8.13	204.56	3.600	No	No	2.00
20	1.28	1.24	2.70	3.11	0.89	24.17	10.14	244.99	3.600	No	No	2.00
21	1.30	1.20	2.73	3.27	0.90	23.28	4.98	116.01	1.111	No	Yes	2.00
22	1.32	1.18	2.75	3.52	0.91	22.97	5.27	120.97	1.096	No	Yes	2.00
23	1.34	1.24	2.74	3.53	0.90	24.09	5.10	122.85	4.000	Yes	Yes	2.00
24	1.36	1.35	2.69	3.34	0.89	26.30	9.65	253.95	4.000	Yes	No	2.00
25	1.38	1.76	2.53	2.54	0.82	34.24	3.36	115.01	4.000	Yes	No	2.00
26	1.40	2.45	2.32	1.81	0.74	47.85	2.01	95.97	4.000	Yes	No	2.00
27	1.42	3.35	2.15	1.42	0.68	65.59	1.50	98.55	4.000	Yes	No	2.00
28	1.44	4.15	2.04	1.26	0.64	81.47	1.35	109.71	4.000	Yes	No	2.00
29	1.46	4.63	2.00	1.22	0.62	90.87	1.31	118.60	4.000	Yes	No	2.00
30	1.48	4.75	1.99	1.22	0.62	93.30	1.30	121.16	0.245	No	No	2.00
31	1.50	4.84	2.00	1.27	0.62	95.03	1.30	123.84	0.257	No	No	2.00
32	1.52	5.19	1.97	1.26	0.61	101.91	1.28	130.85	0.288	No	No	2.00
33	1.54	5.63	1.92	1.18	0.59	110.72	1.25	138.66	0.328	No	No	2.00
34	1.56	5.77	1.89	1.08	0.58	113.39	1.23	139.47	0.332	No	No	2.00
35	1.58	5.11	1.93	1.09	0.60	100.35	1.26	126.35	0.268	No	No	2.00
36	1.60	4.14	2.04	1.26	0.64	81.27	1.35	109.53	0.202	No	No	2.00
37	1.62	3.14	2.21	1.66	0.70	61.46	1.65	101.33	0.177	No	No	2.00
38	1.64	2.57	2.35	2.12	0.76	50.17	2.13	107.03	0.194	No	No	2.00
39	1.66	2.22	2.45	2.56	0.80	43.23	2.67	115.42	0.223	No	No	2.00
40	1.68	2.74	2.30	1.94	0.74	53.60	1.94	103.76	0.184	No	No	2.00
41	1.70	4.01	2.03	1.15	0.63	78.67	1.33	104.88	0.187	No	No	2.00
42	1.72	5.29	1.83	0.77	0.56	103.95	1.18	122.75	0.252	No	No	2.00
43	1.74	6.09	1.76	0.72	0.53	119.64	1.10	131.95	0.294	No	No	2.00
44	1.76	6.55	1.78	0.85	0.54	128.82	1.13	145.52	0.367	No	No	2.00
45	1.78	7.26	1.77	0.93	0.54	142.70	1.12	159.72	0.459	No	No	2.00
46	1.80	7.81	1.76	0.98	0.53	153.52	1.11	169.97	0.537	No	No	2.00
47	1.82	8.16	1.75	0.98	0.53	160.58	1.09	174.59	0.575	No	No	2.00
48	1.84	8.42	1.73	0.95	0.52	165.60	1.05	174.36	0.573	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	1.86	8.70	1.69	0.87	0.51	171.09	1.00	171.09	0.546	No	No	2.00
50	1.88	8.87	1.63	0.72	0.48	174.49	1.00	174.49	0.574	No	No	2.00
51	1.90	8.92	1.59	0.59	0.47	171.29	1.00	171.29	0.547	No	No	2.00
52	1.92	8.78	1.56	0.51	0.46	165.73	1.00	165.73	0.503	No	No	2.00
53	1.94	8.56	1.56	0.50	0.46	161.53	1.00	161.53	0.472	No	No	2.00
54	1.96	8.36	1.57	0.51	0.46	158.13	1.00	158.13	0.448	No	No	2.00
55	1.98	8.17	1.58	0.51	0.47	154.79	1.00	154.79	0.425	No	No	2.00
56	2.00	7.82	1.61	0.53	0.47	149.44	1.00	149.44	0.390	No	No	2.00
57	2.02	7.15	1.65	0.57	0.49	139.03	1.00	139.03	0.330	No	No	2.00
58	2.04	6.30	1.72	0.65	0.52	123.67	1.03	127.58	0.273	No	No	2.00
59	2.06	5.53	1.80	0.73	0.55	108.51	1.15	124.97	0.262	No	No	2.00
60	2.08	5.19	1.83	0.77	0.56	101.68	1.19	120.77	0.244	No	No	2.00
61	2.10	5.22	1.83	0.78	0.56	102.31	1.19	121.50	0.247	No	No	2.00
62	2.12	5.72	1.76	0.67	0.53	112.29	1.11	124.08	0.258	No	No	2.00
63	2.14	6.27	1.69	0.56	0.51	122.36	1.00	122.36	0.250	No	No	2.00
64	2.16	6.80	1.63	0.48	0.49	128.48	1.00	128.48	0.277	No	No	2.00
65	2.18	6.95	1.61	0.45	0.48	129.84	1.00	129.84	0.284	No	No	2.00
66	2.20	6.99	1.61	0.44	0.48	130.11	1.00	130.11	0.285	No	No	2.00
67	2.22	6.70	1.63	0.46	0.49	125.74	1.00	125.74	0.265	No	No	2.00
68	2.24	6.17	1.70	0.57	0.51	119.29	1.00	119.29	0.238	No	No	2.00
69	2.26	5.42	1.78	0.66	0.54	106.21	1.13	119.93	0.240	No	No	2.00
70	2.28	4.76	1.88	0.81	0.58	93.30	1.22	113.84	0.217	No	No	2.00
71	2.30	4.11	2.00	1.04	0.62	80.45	1.30	104.85	0.187	No	No	2.00
72	2.32	3.50	2.17	1.59	0.69	68.31	1.54	105.09	0.188	No	No	2.00
73	2.34	3.04	2.32	2.27	0.75	59.16	1.99	117.82	0.232	No	No	2.00
74	2.36	3.58	2.23	2.06	0.72	69.96	1.71	119.49	0.239	No	No	2.00
75	2.38	5.22	1.99	1.36	0.62	102.30	1.30	132.96	0.299	No	No	2.00
76	2.40	7.10	1.77	0.88	0.54	138.41	1.11	153.85	0.419	No	No	2.00
77	2.42	7.99	1.68	0.69	0.50	148.82	1.00	148.82	0.387	No	No	2.00
78	2.44	7.39	1.70	0.70	0.51	138.84	1.00	138.84	4.000	Yes	No	2.00
79	2.46	6.14	1.82	0.89	0.56	120.43	1.17	140.78	4.000	Yes	No	2.00
80	2.48	4.82	1.99	1.23	0.62	94.33	1.30	122.41	4.000	Yes	No	2.00
81	2.50	3.75	2.19	1.83	0.70	73.13	1.58	115.62	4.000	Yes	No	2.00
82	2.52	2.99	2.34	2.44	0.76	58.12	2.10	122.34	4.000	Yes	No	2.00
83	2.54	2.50	2.47	3.07	0.81	48.51	2.78	134.71	4.000	Yes	No	2.00
84	2.56	2.26	2.53	3.37	0.83	43.80	3.40	148.90	4.000	Yes	No	2.00
85	2.58	2.04	2.58	3.60	0.85	39.44	4.83	190.36	4.000	Yes	No	2.00
86	2.60	1.92	2.58	3.37	0.85	37.06	4.82	178.55	4.000	Yes	No	2.00
87	2.62	1.97	2.51	2.73	0.82	37.99	3.07	116.58	4.000	Yes	No	2.00
88	2.64	2.21	2.38	1.95	0.77	42.83	2.26	96.98	4.000	Yes	No	2.00
89	2.66	2.55	2.27	1.58	0.73	49.39	1.83	90.41	4.000	Yes	No	2.00
90	2.68	2.96	2.18	1.35	0.70	57.45	1.56	89.82	4.000	Yes	No	2.00
91	2.70	3.36	2.12	1.25	0.67	65.36	1.44	94.29	4.000	Yes	No	2.00
92	2.72	3.70	2.07	1.21	0.66	72.06	1.38	99.57	4.000	Yes	No	2.00
93	2.74	3.95	2.05	1.21	0.65	77.04	1.35	104.37	4.000	Yes	No	2.00
94	2.76	4.15	2.03	1.20	0.64	80.92	1.34	108.14	0.198	No	No	2.00
95	2.78	4.33	2.01	1.16	0.63	84.46	1.31	110.92	0.207	No	No	2.00
96	2.80	4.50	1.95	1.00	0.61	87.82	1.27	111.73	0.210	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	2.82	4.67	1.89	0.82	0.59	90.13	1.23	111.03	0.207	No	No	2.00
98	2.84	4.85	1.82	0.62	0.56	90.75	1.18	106.64	0.193	No	No	2.00
99	2.86	4.91	1.78	0.52	0.54	89.83	1.13	101.67	0.178	No	No	2.00
100	2.88	4.78	1.77	0.47	0.54	86.90	1.00	86.90	0.141	No	No	2.00
101	2.90	3.99	1.88	0.61	0.58	75.79	1.22	92.74	0.154	No	No	2.00
102	2.92	3.56	1.96	0.75	0.61	69.29	1.28	88.57	0.145	No	No	2.00
103	2.94	3.22	2.06	0.95	0.65	62.49	1.36	85.20	0.138	No	No	1.95
104	2.96	3.67	1.99	0.86	0.62	71.48	1.30	92.69	0.154	No	No	2.00
105	2.98	4.59	1.86	0.68	0.58	85.74	1.21	103.89	0.184	No	No	2.00
106	3.00	5.61	1.73	0.49	0.53	98.83	1.00	98.83	0.170	No	No	2.00
107	3.02	6.39	1.64	0.37	0.49	108.19	1.00	108.19	0.198	No	No	2.00
108	3.04	6.28	1.64	0.35	0.49	105.89	1.00	105.89	0.190	No	No	2.00
109	3.06	5.93	1.66	0.36	0.50	100.64	1.00	100.64	0.175	No	No	2.00
110	3.08	5.35	1.71	0.38	0.52	92.28	1.00	92.28	0.153	No	No	2.00
111	3.10	5.00	1.75	0.43	0.53	87.75	1.00	87.75	0.143	No	No	1.99
112	3.12	4.90	1.79	0.52	0.55	87.30	1.15	99.96	0.173	No	No	2.00
113	3.14	5.05	1.82	0.63	0.56	90.87	1.18	107.07	0.194	No	No	2.00
114	3.16	5.08	1.86	0.74	0.57	92.53	1.21	111.69	0.210	No	No	2.00
115	3.18	4.96	1.90	0.87	0.59	91.75	1.24	113.59	0.216	No	No	2.00
116	3.20	4.74	1.94	0.97	0.61	88.84	1.26	112.38	0.212	No	No	2.00
117	3.22	4.34	2.01	1.15	0.63	83.27	1.31	109.50	0.202	No	No	2.00
118	3.24	3.98	2.08	1.34	0.66	77.40	1.39	107.38	0.195	No	No	2.00
119	3.26	3.76	2.14	1.54	0.68	73.09	1.48	107.93	0.197	No	No	2.00
120	3.28	3.62	2.18	1.74	0.70	70.39	1.57	110.67	0.206	No	No	2.00
121	3.30	3.35	2.23	1.85	0.72	64.95	1.69	109.46	0.202	No	No	2.00
122	3.32	2.93	2.30	2.04	0.74	56.74	1.92	108.92	0.200	No	No	2.00
123	3.34	2.62	2.37	2.32	0.77	50.69	2.23	113.24	0.215	No	No	2.00
124	3.36	2.93	2.33	2.26	0.76	56.66	2.04	115.60	0.224	No	No	2.00
125	3.38	4.02	2.14	1.67	0.68	78.28	1.48	115.84	0.225	No	No	2.00
126	3.40	5.72	1.92	1.06	0.60	103.31	1.25	128.86	0.279	No	No	2.00
127	3.42	6.93	1.78	0.76	0.54	118.43	1.12	133.16	0.300	No	No	2.00
128	3.44	7.27	1.73	0.64	0.52	121.54	1.04	126.42	0.268	No	No	2.00
129	3.46	6.78	1.75	0.64	0.53	113.83	1.08	122.59	0.251	No	No	2.00
130	3.48	6.25	1.77	0.64	0.54	105.75	1.12	118.45	0.235	No	No	2.00
131	3.50	5.86	1.79	0.64	0.55	99.61	1.14	113.99	0.218	No	No	2.00
132	3.52	5.38	1.81	0.62	0.56	91.87	1.17	107.33	0.195	No	No	2.00
133	3.54	4.76	1.86	0.63	0.58	82.34	1.21	99.44	0.171	No	No	2.00
134	3.56	3.90	1.94	0.67	0.61	69.23	1.26	87.35	0.142	No	No	1.91
135	3.58	3.17	2.03	0.76	0.64	58.02	1.34	77.52	0.123	No	No	1.65
136	3.60	2.57	2.16	0.99	0.69	48.92	1.52	74.18	0.118	No	No	1.58
137	3.62	2.32	2.23	1.19	0.72	44.64	1.70	76.10	0.121	No	No	1.62
138	3.64	2.43	2.22	1.20	0.71	46.74	1.66	77.76	0.124	No	No	1.65
139	3.66	2.62	2.16	1.01	0.69	49.41	1.52	74.91	0.119	No	No	1.59
140	3.68	2.61	2.13	0.89	0.68	48.62	1.47	71.44	0.114	No	No	1.51
141	3.70	2.31	2.18	0.93	0.70	43.60	1.57	68.50	0.110	No	No	1.46
142	3.72	1.95	2.28	1.11	0.74	37.26	1.86	69.30	0.111	No	No	1.47
143	3.74	1.75	2.37	1.32	0.77	33.24	2.20	73.17	0.116	No	No	1.54
144	3.76	1.73	2.37	1.33	0.77	32.88	2.23	73.24	0.117	No	No	1.54

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	3.78	1.77	2.38	1.41	0.77	33.70	2.25	75.91	0.121	No	No	1.59
146	3.80	1.76	2.37	1.37	0.77	33.41	2.23	74.67	4.000	Yes	No	2.00
147	3.82	1.59	2.44	1.56	0.80	30.04	2.61	78.43	4.000	Yes	No	2.00
148	3.84	1.29	2.56	1.84	0.84	24.23	4.18	101.24	4.000	Yes	No	2.00
149	3.86	1.03	2.72	2.46	0.91	19.00	4.91	93.31	4.000	Yes	Yes	2.00
150	3.88	0.88	2.81	2.81	0.94	16.14	5.99	96.67	4.000	Yes	Yes	2.00
151	3.90	0.91	2.78	2.59	0.93	16.74	5.57	93.32	4.000	Yes	Yes	2.00
152	3.92	0.99	2.71	2.21	0.90	18.16	4.79	87.01	4.000	Yes	Yes	2.00
153	3.94	1.45	2.46	1.44	0.81	27.33	2.70	73.79	4.000	Yes	No	2.00
154	3.96	1.91	2.28	1.04	0.74	35.89	1.85	66.52	4.000	Yes	No	2.00
155	3.98	2.22	2.20	0.89	0.71	40.66	1.61	65.30	4.000	Yes	No	2.00
156	4.00	2.12	2.22	0.90	0.72	39.03	1.65	64.57	4.000	Yes	No	2.00
157	4.02	2.02	2.24	0.93	0.72	37.29	1.72	64.27	4.000	Yes	No	2.00
158	4.04	2.15	2.26	1.14	0.73	39.95	1.80	71.77	4.000	Yes	No	2.00
159	4.06	2.25	2.31	1.48	0.75	42.39	1.96	82.92	4.000	Yes	No	2.00
160	4.08	2.28	2.36	1.83	0.77	43.60	2.16	94.06	4.000	Yes	No	2.00
161	4.10	2.14	2.42	2.11	0.79	40.86	2.46	100.65	4.000	Yes	No	2.00
162	4.12	1.84	2.54	2.68	0.84	34.87	3.58	124.71	4.000	Yes	No	2.00
163	4.14	1.90	2.51	2.54	0.83	36.14	2.99	107.93	0.197	No	No	2.00
164	4.16	1.82	2.54	2.69	0.84	34.45	3.68	126.70	0.269	No	No	2.00
165	4.18	1.81	2.54	2.68	0.84	34.40	3.68	126.42	0.268	No	No	2.00
166	4.20	1.44	2.73	3.89	0.91	27.08	4.98	134.76	1.292	No	Yes	2.00
167	4.22	1.22	2.85	4.88	0.96	22.76	6.46	147.10	1.086	No	Yes	2.00
168	4.24	1.09	2.92	5.37	0.98	20.05	7.44	149.09	0.956	No	Yes	2.00
169	4.26	1.01	2.94	5.31	0.99	18.44	7.80	143.90	0.880	No	Yes	2.00
170	4.28	0.97	2.95	5.17	0.99	17.71	7.89	139.82	0.845	No	Yes	2.00
171	4.30	0.95	2.93	4.78	0.99	17.31	7.67	132.73	0.826	No	Yes	2.00
172	4.32	0.95	2.90	4.23	0.98	17.25	7.17	123.75	0.823	No	Yes	2.00
173	4.34	0.95	2.85	3.56	0.96	17.33	6.48	112.38	0.827	No	Yes	2.00
174	4.36	0.97	2.81	3.11	0.94	17.65	5.93	104.72	0.842	No	Yes	2.00
175	4.38	0.98	2.77	2.81	0.93	17.90	5.54	99.25	0.854	No	Yes	2.00
176	4.40	0.99	2.76	2.67	0.92	18.08	5.35	96.80	0.863	No	Yes	2.00
177	4.42	0.99	2.75	2.63	0.92	18.09	5.30	95.89	0.863	No	Yes	2.00
178	4.44	0.98	2.75	2.60	0.92	17.94	5.30	95.11	0.856	No	Yes	2.00
179	4.46	0.98	2.75	2.58	0.92	17.90	5.29	94.72	0.854	No	Yes	2.00
180	4.48	0.99	2.75	2.56	0.92	18.07	5.22	94.35	0.862	No	Yes	2.00
181	4.50	1.00	2.75	2.60	0.92	18.22	5.23	95.37	0.869	No	Yes	2.00
182	4.52	0.99	2.76	2.63	0.92	17.95	5.33	95.68	0.856	No	Yes	2.00
183	4.54	0.94	2.78	2.70	0.93	17.10	5.61	95.94	0.816	No	Yes	2.00
184	4.56	0.89	2.81	2.76	0.94	16.00	5.97	95.52	0.763	No	Yes	2.00
185	4.58	0.83	2.85	2.86	0.96	14.78	6.45	95.34	0.705	No	Yes	2.00
186	4.60	0.78	2.87	2.86	0.96	13.91	6.75	93.85	0.663	No	Yes	2.00
187	4.62	0.76	2.87	2.77	0.97	13.43	6.80	91.35	0.641	No	Yes	2.00
188	4.64	0.75	2.85	2.55	0.96	13.29	6.57	87.24	0.634	No	Yes	2.00
189	4.66	0.75	2.84	2.34	0.95	13.18	6.33	83.43	0.629	No	Yes	2.00
190	4.68	0.75	2.82	2.16	0.95	13.24	6.05	80.10	0.632	No	Yes	2.00
191	4.70	0.77	2.79	2.01	0.94	13.59	5.72	77.74	0.648	No	Yes	2.00
192	4.72	0.79	2.77	1.92	0.93	14.04	5.45	76.53	0.670	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	4.74	0.80	2.76	1.90	0.92	14.19	5.38	76.28	0.677	No	Yes	2.00
194	4.76	0.80	2.76	1.88	0.92	14.21	5.34	75.87	0.678	No	Yes	2.00
195	4.78	0.81	2.75	1.85	0.92	14.36	5.25	75.33	0.685	No	Yes	2.00
196	4.80	0.82	2.75	1.89	0.92	14.50	5.26	76.34	0.692	No	Yes	2.00
197	4.82	0.80	2.78	2.06	0.93	14.11	5.62	79.32	0.673	No	Yes	2.00
198	4.84	0.75	2.82	2.20	0.95	13.14	6.15	80.82	0.627	No	Yes	2.00
199	4.86	0.70	2.85	2.22	0.96	12.28	6.50	79.88	0.586	No	Yes	2.00
200	4.88	0.69	2.84	2.06	0.96	11.95	6.40	76.52	0.570	No	Yes	2.00
201	4.90	0.69	2.83	1.97	0.95	11.89	6.29	74.70	0.567	No	Yes	2.00
202	4.92	0.68	2.83	1.92	0.95	11.83	6.23	73.66	0.564	No	Yes	2.00
203	4.94	0.68	2.83	1.91	0.95	11.77	6.24	73.44	0.561	No	Yes	2.00
204	4.96	0.69	2.82	1.85	0.95	11.89	6.10	72.53	0.567	No	Yes	2.00
205	4.98	0.69	2.81	1.79	0.94	11.97	5.97	71.45	0.571	No	Yes	2.00
206	5.00	0.68	2.81	1.76	0.94	11.82	5.97	70.62	0.564	No	Yes	2.00
207	5.02	0.67	2.82	1.76	0.95	11.63	6.05	70.39	0.555	No	Yes	2.00
208	5.04	0.67	2.82	1.76	0.95	11.50	6.11	70.27	0.548	No	Yes	2.00
209	5.06	0.67	2.82	1.73	0.95	11.50	6.05	69.61	0.548	No	Yes	2.00
210	5.08	0.67	2.81	1.70	0.95	11.48	6.02	69.09	0.548	No	Yes	2.00
211	5.10	0.66	2.81	1.69	0.95	11.42	6.02	68.75	0.545	No	Yes	2.00
212	5.12	0.67	2.81	1.66	0.94	11.47	5.96	68.33	0.547	No	Yes	2.00
213	5.14	0.67	2.80	1.62	0.94	11.60	5.84	67.69	0.553	No	Yes	2.00
214	5.16	0.68	2.79	1.57	0.94	11.78	5.68	66.84	0.562	No	Yes	2.00
215	5.18	0.69	2.78	1.55	0.93	11.93	5.58	66.57	0.569	No	Yes	2.00
216	5.20	0.70	2.77	1.55	0.93	12.04	5.53	66.64	0.574	No	Yes	2.00
217	5.22	0.70	2.77	1.56	0.93	12.06	5.55	66.88	0.575	No	Yes	2.00
218	5.24	0.70	2.78	1.57	0.93	11.93	5.61	66.95	0.569	No	Yes	2.00
219	5.26	0.69	2.79	1.59	0.94	11.79	5.70	67.18	0.562	No	Yes	2.00
220	5.28	0.69	2.79	1.61	0.94	11.71	5.77	67.51	0.558	No	Yes	2.00
221	5.30	0.69	2.80	1.62	0.94	11.67	5.80	67.74	0.557	No	Yes	2.00
222	5.32	0.70	2.79	1.59	0.94	11.89	5.67	67.45	0.567	No	Yes	2.00
223	5.34	0.74	2.73	1.32	0.92	12.36	5.03	62.20	0.590	No	Yes	2.00
224	5.36	0.77	2.67	1.08	0.89	12.80	8.68	111.13	0.187	No	No	2.00
225	5.38	0.80	2.68	1.17	0.89	13.32	8.78	116.93	0.206	No	No	2.00
226	5.40	0.79	2.74	1.54	0.92	13.30	5.10	67.84	0.634	No	Yes	2.00
227	5.42	0.78	2.79	1.93	0.94	13.26	5.71	75.73	0.633	No	Yes	2.00
228	5.44	0.76	2.81	2.00	0.94	12.92	5.93	76.67	0.616	No	Yes	2.00
229	5.46	0.76	2.81	1.98	0.94	12.85	5.93	76.22	0.613	No	Yes	2.00
230	5.48	0.75	2.81	1.98	0.95	12.71	5.99	76.12	0.606	No	Yes	2.00
231	5.50	0.75	2.82	1.98	0.95	12.53	6.05	75.80	0.598	No	Yes	2.00
232	5.52	0.73	2.82	1.97	0.95	12.23	6.15	75.21	0.583	No	Yes	2.00
233	5.54	0.71	2.83	1.91	0.95	11.88	6.19	73.54	0.567	No	Yes	2.00
234	5.56	0.70	2.83	1.83	0.95	11.58	6.19	71.72	0.552	No	Yes	2.00
235	5.58	0.69	2.82	1.74	0.95	11.41	6.12	69.77	0.544	No	Yes	2.00
236	5.60	0.69	2.82	1.68	0.95	11.33	6.05	68.50	0.540	No	Yes	2.00
237	5.62	0.69	2.82	1.69	0.95	11.21	6.11	68.45	0.535	No	Yes	2.00
238	5.64	0.68	2.83	1.72	0.95	11.12	6.19	68.89	0.531	No	Yes	2.00
239	5.66	0.68	2.83	1.74	0.95	11.09	6.24	69.23	0.529	No	Yes	2.00
240	5.68	0.68	2.83	1.74	0.95	11.14	6.23	69.40	0.531	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	5.70	0.69	2.83	1.74	0.95	11.18	6.22	69.47	0.533	No	Yes	2.00
242	5.72	0.69	2.84	1.78	0.96	11.11	6.31	70.10	0.530	No	Yes	2.00
243	5.74	0.68	2.84	1.82	0.96	11.03	6.42	70.75	0.526	No	Yes	2.00
244	5.76	0.68	2.85	1.86	0.96	10.98	6.49	71.31	0.524	No	Yes	2.00
245	5.78	0.69	2.85	1.85	0.96	11.05	6.44	71.20	0.527	No	Yes	2.00
246	5.80	0.70	2.84	1.81	0.96	11.20	6.32	70.83	0.534	No	Yes	2.00
247	5.82	0.71	2.83	1.78	0.95	11.34	6.21	70.45	0.541	No	Yes	2.00
248	5.84	0.71	2.82	1.76	0.95	11.44	6.14	70.19	0.546	No	Yes	2.00
249	5.86	0.71	2.83	1.77	0.95	11.36	6.18	70.17	0.542	No	Yes	2.00
250	5.88	0.70	2.83	1.78	0.96	11.18	6.27	70.12	0.534	No	Yes	2.00
251	5.90	0.69	2.84	1.80	0.96	10.99	6.39	70.24	0.524	No	Yes	2.00
252	5.92	0.69	2.85	1.81	0.96	10.87	6.46	70.19	0.518	No	Yes	2.00
253	5.94	0.68	2.85	1.81	0.96	10.75	6.52	70.14	0.513	No	Yes	2.00
254	5.96	0.68	2.86	1.82	0.96	10.63	6.59	70.08	0.507	No	Yes	2.00
255	5.98	0.67	2.86	1.82	0.97	10.53	6.65	70.01	0.502	No	Yes	2.00
256	6.00	0.67	2.86	1.81	0.97	10.50	6.65	69.78	0.501	No	Yes	2.00
257	6.02	0.67	2.86	1.80	0.97	10.52	6.61	69.54	0.502	No	Yes	2.00
258	6.04	0.68	2.85	1.76	0.96	10.61	6.50	68.98	0.506	No	Yes	2.00
259	6.06	0.69	2.85	1.74	0.96	10.67	6.44	68.67	0.509	No	Yes	2.00
260	6.08	0.69	2.84	1.71	0.96	10.73	6.36	68.27	0.512	No	Yes	2.00
261	6.10	0.69	2.84	1.72	0.96	10.71	6.39	68.35	0.511	No	Yes	2.00
262	6.12	0.69	2.84	1.72	0.96	10.67	6.40	68.25	0.509	No	Yes	2.00
263	6.14	0.69	2.85	1.72	0.96	10.55	6.46	68.19	0.503	No	Yes	2.00
264	6.16	0.68	2.85	1.73	0.96	10.43	6.53	68.14	0.498	No	Yes	2.00
265	6.18	0.68	2.86	1.75	0.97	10.35	6.61	68.46	0.494	No	Yes	2.00
266	6.20	0.67	2.86	1.77	0.97	10.32	6.65	68.67	0.492	No	Yes	2.00
267	6.22	0.68	2.86	1.78	0.97	10.32	6.67	68.84	0.492	No	Yes	2.00
268	6.24	0.67	2.86	1.78	0.97	10.27	6.70	68.86	0.490	No	Yes	2.00
269	6.26	0.68	2.86	1.78	0.97	10.34	6.67	68.99	0.493	No	Yes	2.00
270	6.28	0.70	2.84	1.72	0.96	10.63	6.43	68.34	0.507	No	Yes	2.00
271	6.30	0.74	2.81	1.60	0.95	11.21	5.95	66.71	0.534	No	Yes	2.00
272	6.32	0.78	2.77	1.49	0.93	11.75	5.54	65.15	0.561	No	Yes	2.00
273	6.34	0.80	2.75	1.44	0.93	12.15	5.31	64.53	0.580	No	Yes	2.00
274	6.36	0.82	2.75	1.46	0.93	12.37	5.26	65.11	0.590	No	Yes	2.00
275	6.38	0.84	2.75	1.50	0.93	12.67	5.24	66.43	0.605	No	Yes	2.00
276	6.40	0.85	2.75	1.55	0.93	12.88	5.24	67.49	0.614	No	Yes	2.00
277	6.42	0.86	2.76	1.63	0.93	13.03	5.32	69.37	0.622	No	Yes	2.00
278	6.44	0.87	2.76	1.68	0.93	13.07	5.40	70.58	0.623	No	Yes	2.00
279	6.46	0.87	2.77	1.73	0.93	13.13	5.45	71.53	0.626	No	Yes	2.00
280	6.48	0.87	2.76	1.72	0.93	13.16	5.43	71.40	4.000	Yes	Yes	2.00
281	6.50	0.93	2.72	1.56	0.92	13.97	4.93	68.90	4.000	Yes	Yes	2.00
282	6.52	1.01	2.67	1.39	0.89	15.08	8.25	124.45	4.000	Yes	No	2.00
283	6.54	1.10	2.62	1.28	0.87	16.39	6.01	98.45	4.000	Yes	No	2.00
284	6.56	1.18	2.56	1.07	0.85	17.40	4.06	70.64	4.000	Yes	No	2.00
285	6.58	1.25	2.54	1.08	0.84	18.48	3.54	65.42	4.000	Yes	No	2.00
286	6.60	1.31	2.53	1.12	0.84	19.36	3.32	64.35	0.105	No	No	1.20
287	6.62	1.32	2.57	1.37	0.86	19.65	4.32	84.77	0.137	No	No	1.57
288	6.64	1.32	2.59	1.51	0.86	19.62	5.00	98.01	0.168	No	No	1.92

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	6.66	1.32	2.60	1.59	0.87	19.66	5.40	106.06	0.191	No	No	2.00
290	6.68	1.32	2.61	1.65	0.87	19.68	5.72	112.52	0.191	No	No	2.00
291	6.70	1.31	2.62	1.75	0.88	19.54	6.32	123.50	0.230	No	No	2.00
292	6.72	1.29	2.65	1.88	0.89	19.25	7.32	140.85	0.306	No	No	2.00
293	6.74	1.28	2.66	1.97	0.89	19.04	8.09	154.04	0.378	No	No	2.00
294	6.76	1.27	2.67	1.97	0.89	18.92	8.22	155.47	0.387	No	No	2.00
295	6.78	1.28	2.66	1.89	0.89	18.92	7.68	145.39	0.329	No	No	2.00
296	6.80	1.30	2.65	1.85	0.89	19.17	7.22	138.53	0.295	No	No	2.00
297	6.82	1.35	2.62	1.77	0.88	19.87	6.18	122.82	0.227	No	No	2.00
298	6.84	1.38	2.61	1.74	0.87	20.22	5.81	117.42	4.000	Yes	No	2.00
299	6.86	1.45	2.57	1.60	0.86	21.18	4.58	97.10	4.000	Yes	No	2.00
300	6.88	1.66	2.49	1.38	0.83	24.08	2.93	70.47	4.000	Yes	No	2.00
301	6.90	2.08	2.38	1.17	0.78	29.75	2.25	66.94	4.000	Yes	No	2.00
302	6.92	2.35	2.33	1.15	0.77	33.51	2.03	68.20	4.000	Yes	No	2.00
303	6.94	2.37	2.35	1.27	0.77	33.86	2.12	71.85	4.000	Yes	No	2.00
304	6.96	2.09	2.44	1.54	0.81	30.15	2.59	77.97	4.000	Yes	No	2.00
305	6.98	1.86	2.52	1.81	0.84	26.96	3.16	85.18	4.000	Yes	No	2.00
306	7.00	1.68	2.59	2.09	0.87	24.53	5.01	122.89	4.000	Yes	No	2.00
307	7.02	1.59	2.64	2.35	0.89	23.21	6.91	160.29	4.000	Yes	No	2.00
308	7.04	1.49	2.69	2.64	0.90	21.93	9.45	207.30	4.000	Yes	No	2.00
309	7.06	1.41	2.73	2.88	0.92	20.68	5.05	104.46	4.000	Yes	Yes	2.00
310	7.08	1.34	2.76	2.98	0.93	19.61	5.36	105.00	4.000	Yes	Yes	2.00
311	7.10	1.28	2.78	3.00	0.94	18.74	5.56	104.26	0.894	No	Yes	2.00
312	7.12	1.25	2.78	2.91	0.94	18.14	5.60	101.58	0.865	No	Yes	2.00
313	7.14	1.22	2.77	2.74	0.94	17.61	5.54	97.51	0.840	No	Yes	2.00
314	7.16	1.21	2.75	2.47	0.93	17.30	5.29	91.54	0.825	No	Yes	2.00
315	7.18	1.19	2.74	2.27	0.92	16.90	5.15	87.05	0.806	No	Yes	2.00
316	7.20	1.18	2.73	2.14	0.92	16.68	5.04	84.04	0.796	No	Yes	2.00
317	7.22	1.16	2.73	2.10	0.92	16.40	5.05	82.81	0.782	No	Yes	2.00
318	7.24	1.16	2.73	2.07	0.92	16.39	5.02	82.23	0.782	No	Yes	2.00
319	7.26	1.18	2.72	2.03	0.92	16.57	4.92	81.50	0.790	No	Yes	2.00
320	7.28	1.21	2.70	1.96	0.91	16.96	4.73	80.30	0.809	No	Yes	2.00
321	7.30	1.23	2.69	1.89	0.91	17.23	9.49	163.53	0.438	No	No	2.00
322	7.32	1.25	2.69	1.91	0.90	17.46	9.34	163.00	0.435	No	No	2.00
323	7.34	1.25	2.69	1.96	0.91	17.46	9.75	170.20	0.485	No	No	2.00
324	7.36	1.25	2.71	2.05	0.91	17.39	4.76	82.80	0.829	No	Yes	2.00
325	7.38	1.22	2.72	2.13	0.92	17.02	4.94	84.11	0.812	No	Yes	2.00
326	7.40	1.19	2.75	2.23	0.93	16.48	5.20	85.76	0.786	No	Yes	2.00
327	7.42	1.14	2.77	2.30	0.94	15.84	5.45	86.34	0.756	No	Yes	2.00
328	7.44	1.12	2.78	2.32	0.94	15.43	5.59	86.24	0.736	No	Yes	2.00
329	7.46	1.11	2.77	2.24	0.94	15.33	5.51	84.51	0.731	No	Yes	2.00
330	7.48	1.13	2.76	2.16	0.93	15.49	5.36	83.04	0.739	No	Yes	2.00
331	7.50	1.15	2.75	2.09	0.93	15.68	5.22	81.86	0.748	No	Yes	2.00
332	7.52	1.15	2.74	2.07	0.93	15.71	5.19	81.51	0.749	No	Yes	2.00
333	7.54	1.15	2.74	2.05	0.93	15.68	5.17	81.12	0.748	No	Yes	2.00
334	7.56	1.15	2.74	2.04	0.93	15.58	5.18	80.66	0.743	No	Yes	2.00
335	7.58	1.15	2.74	2.03	0.93	15.57	5.16	80.38	0.742	No	Yes	2.00
336	7.60	1.13	2.74	2.00	0.93	15.33	5.19	79.61	0.731	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	7.62	1.11	2.75	1.98	0.93	14.98	5.26	78.89	0.715	No	Yes	2.00
338	7.64	1.10	2.75	1.95	0.93	14.75	5.28	77.87	0.703	No	Yes	2.00
339	7.66	1.11	2.74	1.88	0.93	14.89	5.14	76.54	0.710	No	Yes	2.00
340	7.68	1.15	2.72	1.78	0.92	15.34	4.88	74.80	0.732	No	Yes	2.00
341	7.70	1.18	2.69	1.69	0.91	15.78	9.80	154.61	0.381	No	No	2.00
342	7.72	1.20	2.68	1.64	0.90	15.90	9.22	146.63	0.336	No	No	2.00
343	7.74	1.18	2.69	1.65	0.91	15.66	9.66	151.26	0.362	No	No	2.00
344	7.76	1.16	2.71	1.70	0.91	15.33	4.77	73.17	0.731	No	Yes	2.00
345	7.78	1.17	2.70	1.69	0.91	15.47	4.72	73.06	0.738	No	Yes	2.00
346	7.80	1.21	2.68	1.63	0.90	15.98	9.01	143.95	0.322	No	No	2.00
347	7.82	1.26	2.66	1.57	0.90	16.59	7.88	130.77	0.259	No	No	2.00
348	7.84	1.28	2.66	1.63	0.90	16.90	7.93	133.92	0.273	No	No	2.00
349	7.86	1.27	2.68	1.77	0.90	16.80	9.07	152.44	0.369	No	No	2.00
350	7.88	1.22	2.73	2.04	0.92	16.16	5.03	81.25	0.771	No	Yes	2.00
351	7.90	1.17	2.77	2.24	0.94	15.40	5.50	84.67	0.735	No	Yes	2.00
352	7.92	1.12	2.80	2.39	0.95	14.66	5.90	86.52	0.699	No	Yes	2.00
353	7.94	1.08	2.81	2.32	0.95	14.05	6.00	84.30	0.670	No	Yes	2.00
354	7.96	1.04	2.82	2.30	0.96	13.49	6.16	83.07	0.644	No	Yes	2.00
355	7.98	1.01	2.83	2.26	0.96	13.04	6.27	81.67	0.622	No	Yes	2.00
356	8.00	1.00	2.83	2.20	0.96	12.92	6.22	80.43	0.616	No	Yes	2.00
357	8.02	1.00	2.82	2.12	0.96	12.77	6.17	78.79	0.609	No	Yes	2.00
358	8.04	0.99	2.81	2.00	0.96	12.68	6.03	76.41	0.605	No	Yes	2.00
359	8.06	0.96	2.83	2.01	0.96	12.22	6.20	75.82	0.583	No	Yes	2.00
360	8.08	0.91	2.86	2.08	0.97	11.51	6.61	76.10	0.549	No	Yes	2.00
361	8.10	0.87	2.89	2.22	0.99	10.87	7.13	77.50	0.519	No	Yes	2.00
362	8.12	0.86	2.90	2.27	0.99	10.77	7.25	78.08	0.514	No	Yes	2.00
363	8.14	0.90	2.87	2.14	0.98	11.23	6.83	76.75	0.536	No	Yes	2.00
364	8.16	0.94	2.84	2.00	0.97	11.78	6.38	75.15	0.562	No	Yes	2.00
365	8.18	0.98	2.81	1.90	0.96	12.26	6.02	73.86	0.585	No	Yes	2.00
366	8.20	1.00	2.81	1.92	0.95	12.51	5.96	74.56	0.597	No	Yes	2.00
367	8.22	1.00	2.82	1.99	0.96	12.51	6.07	75.95	0.597	No	Yes	2.00
368	8.24	0.99	2.83	2.07	0.96	12.38	6.23	77.18	0.591	No	Yes	2.00
369	8.26	0.99	2.83	2.05	0.96	12.30	6.24	76.73	0.587	No	Yes	2.00
370	8.28	0.98	2.83	1.99	0.96	12.25	6.18	75.63	0.584	No	Yes	2.00
371	8.30	0.97	2.83	1.95	0.96	12.07	6.18	74.59	0.576	No	Yes	2.00
372	8.32	0.96	2.83	1.93	0.96	11.89	6.22	74.01	0.567	No	Yes	2.00
373	8.34	0.97	2.81	1.82	0.96	11.98	6.02	72.06	0.571	No	Yes	2.00
374	8.36	1.00	2.78	1.65	0.94	12.28	5.62	68.96	0.586	No	Yes	2.00
375	8.38	1.02	2.75	1.51	0.93	12.55	5.29	66.45	0.599	No	Yes	2.00
376	8.40	1.05	2.72	1.38	0.92	12.86	4.97	63.87	0.613	No	Yes	2.00
377	8.42	1.08	2.70	1.31	0.91	13.25	4.72	62.56	0.632	No	Yes	2.00
378	8.44	1.13	2.68	1.24	0.90	13.80	8.71	120.23	0.217	No	No	2.00
379	8.46	1.14	2.67	1.27	0.90	13.97	8.70	121.57	0.222	No	No	2.00
380	8.48	1.12	2.69	1.30	0.91	13.64	9.51	129.71	0.255	No	No	2.00
381	8.50	1.07	2.72	1.36	0.92	12.98	4.90	63.56	0.619	No	Yes	2.00
382	8.52	1.03	2.75	1.43	0.93	12.39	5.20	64.46	0.591	No	Yes	2.00
383	8.54	1.02	2.75	1.44	0.93	12.34	5.25	64.75	4.000	Yes	Yes	2.00
384	8.56	1.08	2.72	1.36	0.92	13.08	4.87	63.66	4.000	Yes	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	8.58	1.18	2.65	1.20	0.90	14.34	7.63	109.42	4.000	Yes	No	2.00
386	8.60	1.27	2.61	1.10	0.88	15.39	5.68	87.41	4.000	Yes	No	2.00
387	8.62	1.32	2.58	1.03	0.87	16.00	4.75	76.09	4.000	Yes	No	2.00
388	8.64	1.38	2.56	1.01	0.86	16.77	4.08	68.41	4.000	Yes	No	2.00
389	8.66	1.47	2.53	0.99	0.85	17.78	3.43	60.94	4.000	Yes	No	2.00
390	8.68	1.52	2.52	1.03	0.85	18.50	3.28	60.59	0.101	No	No	1.13
391	8.70	1.51	2.55	1.14	0.86	18.39	3.87	71.11	0.113	No	No	1.27
392	8.72	1.46	2.59	1.30	0.87	17.82	5.05	89.93	0.148	No	No	1.65
393	8.74	1.44	2.60	1.35	0.88	17.54	5.55	97.34	0.149	No	No	1.67
394	8.76	1.50	2.58	1.26	0.87	18.13	4.65	84.23	0.136	No	No	1.52
395	8.78	1.56	2.54	1.14	0.85	18.85	3.65	68.71	0.110	No	No	1.23
396	8.80	1.57	2.54	1.13	0.85	18.91	3.55	67.12	0.108	No	No	1.21
397	8.82	1.49	2.58	1.26	0.87	17.93	4.74	84.98	0.137	No	No	1.53
398	8.84	1.39	2.63	1.37	0.89	16.67	6.35	105.95	0.172	No	No	1.92
399	8.86	1.33	2.64	1.35	0.89	15.95	6.91	110.14	4.000	Yes	No	2.00
400	8.88	1.34	2.60	1.13	0.88	15.95	5.44	86.72	4.000	Yes	No	2.00
401	8.90	1.39	2.55	0.96	0.86	16.45	4.00	65.77	4.000	Yes	No	2.00
402	8.92	1.43	2.53	0.88	0.85	16.86	3.36	56.57	4.000	Yes	No	2.00
403	8.94	1.44	2.52	0.88	0.85	16.98	3.30	55.96	4.000	Yes	No	2.00
404	8.96	1.41	2.56	0.98	0.86	16.60	4.06	67.38	4.000	Yes	No	2.00
405	8.98	1.37	2.59	1.09	0.87	16.11	5.01	80.70	4.000	Yes	No	2.00
406	9.00	1.33	2.61	1.15	0.88	15.64	5.85	91.48	4.000	Yes	No	2.00
407	9.02	1.26	2.64	1.16	0.89	14.74	6.80	100.24	4.000	Yes	No	2.00
408	9.04	1.19	2.66	1.16	0.90	13.81	7.91	109.21	4.000	Yes	No	2.00
409	9.06	1.11	2.69	1.18	0.91	12.74	9.87	125.75	4.000	Yes	No	2.00
410	9.08	1.09	2.70	1.15	0.91	12.53	9.98	124.95	0.235	No	No	2.00
411	9.10	1.12	2.68	1.11	0.91	12.79	9.01	115.23	0.200	No	No	2.00
412	9.12	1.19	2.64	1.02	0.89	13.69	6.85	93.71	0.141	No	No	1.57
413	9.14	1.26	2.60	0.96	0.88	14.50	5.49	79.67	0.114	No	No	1.28
414	9.16	1.29	2.59	0.93	0.87	14.90	4.96	73.92	0.118	No	No	1.31
415	9.18	1.27	2.60	0.97	0.88	14.65	5.41	79.32	0.114	No	No	1.27
416	9.20	1.26	2.61	0.99	0.88	14.42	5.84	84.25	0.122	No	No	1.36
417	9.22	1.29	2.60	0.97	0.88	14.84	5.30	78.69	4.000	Yes	No	2.00
418	9.24	1.36	2.57	0.95	0.87	15.60	4.55	71.00	4.000	Yes	No	2.00
419	9.26	1.43	2.54	0.90	0.86	16.44	3.72	61.22	4.000	Yes	No	2.00
420	9.28	1.49	2.51	0.86	0.85	17.21	3.10	53.28	4.000	Yes	No	2.00
421	9.30	1.58	2.49	0.84	0.83	18.25	2.89	52.82	4.000	Yes	No	2.00
422	9.32	1.65	2.48	0.89	0.83	19.04	2.86	54.42	4.000	Yes	No	2.00
423	9.34	1.62	2.51	1.00	0.85	18.73	3.08	57.70	4.000	Yes	No	2.00
424	9.36	1.54	2.55	1.09	0.86	17.74	3.99	70.73	4.000	Yes	No	2.00
425	9.38	1.46	2.58	1.14	0.87	16.80	4.83	81.10	4.000	Yes	No	2.00
426	9.40	1.44	2.58	1.10	0.87	16.48	4.83	79.60	0.127	No	No	1.41
427	9.42	1.42	2.59	1.08	0.87	16.20	4.92	79.77	0.127	No	No	1.42
428	9.44	1.36	2.61	1.11	0.88	15.42	5.71	88.11	0.129	No	No	1.44
429	9.46	1.29	2.65	1.20	0.90	14.56	7.29	106.20	0.172	No	No	1.92
430	9.48	1.23	2.68	1.28	0.91	13.85	8.98	124.40	0.233	No	No	2.00
431	9.50	1.21	2.69	1.31	0.91	13.57	9.71	131.80	0.264	No	No	2.00
432	9.52	1.21	2.68	1.24	0.91	13.56	9.09	123.25	0.229	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
433	9.54	1.22	2.67	1.20	0.91	13.66	8.50	116.08	0.203	No	No	2.00
434	9.56	1.20	2.69	1.24	0.91	13.36	9.42	125.82	0.239	No	No	2.00
435	9.58	1.14	2.73	1.38	0.93	12.60	5.05	63.65	0.601	No	Yes	2.00
436	9.60	1.05	2.79	1.54	0.95	11.58	5.69	65.95	0.553	No	Yes	2.00
437	9.62	1.01	2.81	1.54	0.96	10.96	5.96	65.27	0.523	No	Yes	2.00
438	9.64	0.99	2.81	1.47	0.96	10.73	5.93	63.61	0.512	No	Yes	2.00
439	9.66	1.00	2.78	1.32	0.95	10.81	5.61	60.64	0.516	No	Yes	2.00
440	9.68	1.08	2.71	1.12	0.92	11.80	4.85	57.22	0.563	No	Yes	2.00
441	9.70	1.17	2.66	0.99	0.90	12.81	7.80	99.87	0.155	No	No	1.73
442	9.72	1.25	2.63	1.00	0.89	13.70	6.68	91.49	0.136	No	No	1.52
443	9.74	1.24	2.65	1.10	0.90	13.67	7.60	103.99	0.166	No	No	1.85
444	9.76	1.26	2.66	1.15	0.90	13.86	7.79	107.92	0.177	No	No	1.98
445	9.78	1.29	2.64	1.08	0.89	14.18	6.82	96.70	0.148	No	No	1.65
446	9.80	1.30	2.63	1.06	0.89	14.26	6.56	93.59	0.141	No	No	1.57
447	9.82	1.24	2.67	1.18	0.91	13.56	8.50	115.24	0.200	No	No	2.00
448	9.84	1.14	2.75	1.42	0.93	12.34	5.21	64.32	0.589	No	Yes	2.00
449	9.86	1.05	2.81	1.59	0.96	11.25	5.92	66.67	0.537	No	Yes	2.00
450	9.88	0.97	2.85	1.68	0.97	10.28	6.52	67.00	0.490	No	Yes	2.00
451	9.90	0.93	2.87	1.66	0.98	9.71	6.79	65.89	4.000	Yes	Yes	2.00
452	9.92	1.02	2.80	1.42	0.95	10.86	5.79	62.87	4.000	Yes	Yes	2.00
453	9.94	1.23	2.66	1.07	0.90	13.24	7.94	105.07	4.000	Yes	No	2.00
454	9.96	1.52	2.54	0.93	0.86	16.72	3.72	62.16	4.000	Yes	No	2.00
455	9.98	1.72	2.53	1.09	0.85	19.08	3.31	63.24	0.104	No	No	1.15
456	10.00	1.97	2.52	1.34	0.85	22.09	3.14	69.32	4.000	Yes	No	2.00
457	10.02	2.11	2.55	1.71	0.86	23.83	3.83	91.31	4.000	Yes	No	2.00
458	10.04	2.21	2.59	2.18	0.88	25.04	5.12	128.30	4.000	Yes	No	2.00
459	10.06	2.14	2.69	3.09	0.92	24.41	9.85	240.52	4.000	Yes	No	2.00
460	10.08	2.09	2.78	4.14	0.95	23.96	5.64	135.18	4.000	Yes	Yes	2.00
461	10.10	2.08	2.85	5.18	0.97	23.85	6.50	154.96	4.000	Yes	Yes	2.00
462	10.12	1.92	2.93	6.25	1.00	22.04	7.66	168.81	4.000	Yes	Yes	2.00
463	10.14	1.79	2.99	6.96	1.00	20.36	8.57	174.56	4.000	Yes	Yes	2.00
464	10.16	1.94	2.93	6.19	1.00	22.13	7.60	168.12	4.000	Yes	Yes	2.00
465	10.18	2.82	2.66	3.75	0.90	32.24	7.85	253.02	4.000	Yes	No	2.00
466	10.20	4.37	2.36	2.21	0.79	49.73	2.20	109.29	4.000	Yes	No	2.00
467	10.22	7.16	2.10	1.50	0.69	80.76	1.41	114.16	4.000	Yes	No	2.00
468	10.24	10.25	1.96	1.38	0.64	114.90	1.28	146.63	4.000	Yes	No	2.00
469	10.26	12.73	1.92	1.50	0.62	142.46	1.25	177.88	4.000	Yes	No	2.00
470	10.28	14.25	1.90	1.59	0.62	159.30	1.24	197.56	0.797	No	No	2.00
471	10.30	15.20	1.91	1.70	0.62	169.73	1.24	210.80	4.000	No	No	2.00
472	10.32	16.24	1.89	1.72	0.61	180.96	1.23	223.16	4.000	No	No	2.00
473	10.34	17.06	1.89	1.75	0.61	189.82	1.23	233.22	4.000	No	No	2.00
474	10.36	17.79	1.88	1.74	0.61	197.48	1.22	240.88	4.000	No	No	2.00
475	10.38	18.61	1.88	1.81	0.61	206.38	1.22	251.94	4.000	No	No	2.00
476	10.40	20.09	1.87	1.88	0.60	222.53	1.22	270.39	4.000	No	No	2.00
477	10.42	21.19	1.89	2.05	0.61	234.64	1.23	288.01	4.000	No	No	2.00
478	10.44	23.27	1.87	2.10	0.60	257.18	1.22	313.09	4.000	No	No	2.00
479	10.46	24.33	1.87	2.18	0.61	268.66	1.22	327.53	4.000	No	No	2.00
480	10.48	26.91	1.84	2.10	0.59	295.98	1.19	352.18	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
481	10.50	28.21	1.82	2.05	0.58	309.43	1.17	362.66	4.000	No	No	2.00

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
0.90	2.00	0.00	0.00	0.02	0.00	0.92	2.00	0.00	0.00	0.02	0.00
0.94	2.00	0.00	0.00	0.02	0.00	0.96	2.00	0.00	0.00	0.02	0.00
0.98	2.00	0.00	0.00	0.02	0.00	1.00	2.00	0.00	0.00	0.02	0.00
1.02	2.00	0.00	0.00	0.02	0.00	1.04	2.00	0.00	0.00	0.02	0.00
1.06	2.00	0.00	0.00	0.02	0.00	1.08	2.00	0.00	0.00	0.02	0.00
1.10	2.00	0.00	0.00	0.02	0.00	1.12	2.00	0.00	0.00	0.02	0.00
1.14	2.00	0.00	0.00	0.02	0.00	1.16	2.00	0.00	0.00	0.02	0.00
1.18	2.00	0.00	0.00	0.02	0.00	1.20	2.00	0.00	0.00	0.02	0.00
1.22	2.00	0.00	0.00	0.02	0.00	1.24	2.00	0.00	0.00	0.02	0.00
1.26	2.00	0.00	0.00	0.02	0.00	1.28	2.00	0.00	0.00	0.02	0.00
1.30	2.00	0.00	0.00	0.02	0.00	1.32	2.00	0.00	0.00	0.02	0.00
1.34	2.00	0.00	0.00	0.02	0.00	1.36	2.00	0.00	0.00	0.02	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.42	2.00	0.00	0.00	0.02	0.00	1.44	2.00	0.00	0.00	0.02	0.00
1.46	2.00	0.00	0.00	0.02	0.00	1.48	2.00	0.00	0.00	0.02	0.00
1.50	2.00	0.00	0.00	0.02	0.00	1.52	2.00	0.00	0.00	0.02	0.00
1.54	2.00	0.00	0.00	0.02	0.00	1.56	2.00	0.00	0.00	0.02	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.02	0.00
1.62	2.00	0.00	0.00	0.02	0.00	1.64	2.00	0.00	0.00	0.02	0.00
1.66	2.00	0.00	0.00	0.02	0.00	1.68	2.00	0.00	0.00	0.02	0.00
1.70	2.00	0.00	0.00	0.02	0.00	1.72	2.00	0.00	0.00	0.02	0.00
1.74	2.00	0.00	0.00	0.02	0.00	1.76	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.02	0.00
1.82	2.00	0.00	0.00	0.02	0.00	1.84	2.00	0.00	0.00	0.02	0.00
1.86	2.00	0.00	0.00	0.02	0.00	1.88	2.00	0.00	0.00	0.02	0.00
1.90	2.00	0.00	0.00	0.02	0.00	1.92	2.00	0.00	0.00	0.02	0.00
1.94	2.00	0.00	0.00	0.02	0.00	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.02	2.00	0.00	0.00	0.02	0.00	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	2.00	0.00	0.00	0.02	0.00
2.10	2.00	0.00	0.00	0.02	0.00	2.12	2.00	0.00	0.00	0.02	0.00
2.14	2.00	0.00	0.00	0.02	0.00	2.16	2.00	0.00	0.00	0.02	0.00
2.18	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00
2.42	2.00	0.00	0.00	0.02	0.00	2.44	2.00	0.00	0.00	0.02	0.00
2.46	2.00	0.00	0.00	0.02	0.00	2.48	2.00	0.00	0.00	0.02	0.00
2.50	2.00	0.00	0.00	0.02	0.00	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	2.00	0.00	0.00	0.02	0.00	2.64	2.00	0.00	0.00	0.02	0.00
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	2.00	0.00	0.00	0.02	0.00
2.74	2.00	0.00	0.00	0.02	0.00	2.76	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
2.82	2.00	0.00	0.00	0.02	0.00	2.84	2.00	0.00	0.00	0.02	0.00
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	1.95	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	2.00	0.00	0.00	0.02	0.00	3.08	2.00	0.00	0.00	0.02	0.00
3.10	1.99	0.00	0.00	0.02	0.00	3.12	2.00	0.00	0.00	0.02	0.00
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.42	2.00	0.00	0.00	0.02	0.00	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	1.91	0.00	0.00	0.02	0.00
3.58	1.65	0.00	0.00	0.02	0.00	3.60	1.58	0.00	0.00	0.02	0.00
3.62	1.62	0.00	0.00	0.02	0.00	3.64	1.65	0.00	0.00	0.02	0.00
3.66	1.59	0.00	0.00	0.02	0.00	3.68	1.51	0.00	0.00	0.02	0.00
3.70	1.46	0.00	0.00	0.02	0.00	3.72	1.47	0.00	0.00	0.02	0.00
3.74	1.54	0.00	0.00	0.02	0.00	3.76	1.54	0.00	0.00	0.02	0.00
3.78	1.59	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.82	2.00	0.00	0.00	0.02	0.00	3.84	2.00	0.00	0.00	0.02	0.00
3.86	2.00	0.00	0.00	0.02	0.00	3.88	2.00	0.00	0.00	0.02	0.00
3.90	2.00	0.00	0.00	0.02	0.00	3.92	2.00	0.00	0.00	0.02	0.00
3.94	2.00	0.00	0.00	0.02	0.00	3.96	2.00	0.00	0.00	0.02	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.02	2.00	0.00	0.00	0.02	0.00	4.04	2.00	0.00	0.00	0.02	0.00
4.06	2.00	0.00	0.00	0.02	0.00	4.08	2.00	0.00	0.00	0.02	0.00
4.10	2.00	0.00	0.00	0.02	0.00	4.12	2.00	0.00	0.00	0.02	0.00
4.14	2.00	0.00	0.00	0.02	0.00	4.16	2.00	0.00	0.00	0.02	0.00
4.18	2.00	0.00	0.00	0.02	0.00	4.20	2.00	0.00	0.00	0.02	0.00
4.22	2.00	0.00	0.00	0.02	0.00	4.24	2.00	0.00	0.00	0.02	0.00
4.26	2.00	0.00	0.00	0.02	0.00	4.28	2.00	0.00	0.00	0.02	0.00
4.30	2.00	0.00	0.00	0.02	0.00	4.32	2.00	0.00	0.00	0.02	0.00
4.34	2.00	0.00	0.00	0.02	0.00	4.36	2.00	0.00	0.00	0.02	0.00
4.38	2.00	0.00	0.00	0.02	0.00	4.40	2.00	0.00	0.00	0.02	0.00
4.42	2.00	0.00	0.00	0.02	0.00	4.44	2.00	0.00	0.00	0.02	0.00
4.46	2.00	0.00	0.00	0.02	0.00	4.48	2.00	0.00	0.00	0.02	0.00
4.50	2.00	0.00	0.00	0.02	0.00	4.52	2.00	0.00	0.00	0.02	0.00
4.54	2.00	0.00	0.00	0.02	0.00	4.56	2.00	0.00	0.00	0.02	0.00
4.58	2.00	0.00	0.00	0.02	0.00	4.60	2.00	0.00	0.00	0.02	0.00
4.62	2.00	0.00	0.00	0.02	0.00	4.64	2.00	0.00	0.00	0.02	0.00
4.66	2.00	0.00	0.00	0.02	0.00	4.68	2.00	0.00	0.00	0.02	0.00
4.70	2.00	0.00	0.00	0.02	0.00	4.72	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
4.74	2.00	0.00	0.00	0.02	0.00	4.76	2.00	0.00	0.00	0.02	0.00
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	2.00	0.00	0.00	0.02	0.00
4.86	2.00	0.00	0.00	0.02	0.00	4.88	2.00	0.00	0.00	0.02	0.00
4.90	2.00	0.00	0.00	0.02	0.00	4.92	2.00	0.00	0.00	0.02	0.00
4.94	2.00	0.00	0.00	0.02	0.00	4.96	2.00	0.00	0.00	0.02	0.00
4.98	2.00	0.00	0.00	0.02	0.00	5.00	2.00	0.00	0.00	0.02	0.00
5.02	2.00	0.00	0.00	0.02	0.00	5.04	2.00	0.00	0.00	0.02	0.00
5.06	2.00	0.00	0.00	0.02	0.00	5.08	2.00	0.00	0.00	0.02	0.00
5.10	2.00	0.00	0.00	0.02	0.00	5.12	2.00	0.00	0.00	0.02	0.00
5.14	2.00	0.00	0.00	0.02	0.00	5.16	2.00	0.00	0.00	0.02	0.00
5.18	2.00	0.00	0.00	0.02	0.00	5.20	2.00	0.00	0.00	0.02	0.00
5.22	2.00	0.00	0.00	0.02	0.00	5.24	2.00	0.00	0.00	0.02	0.00
5.26	2.00	0.00	0.00	0.02	0.00	5.28	2.00	0.00	0.00	0.02	0.00
5.30	2.00	0.00	0.00	0.02	0.00	5.32	2.00	0.00	0.00	0.02	0.00
5.34	2.00	0.00	0.00	0.02	0.00	5.36	2.00	0.00	0.00	0.02	0.00
5.38	2.00	0.00	0.00	0.02	0.00	5.40	2.00	0.00	0.00	0.02	0.00
5.42	2.00	0.00	0.00	0.02	0.00	5.44	2.00	0.00	0.00	0.02	0.00
5.46	2.00	0.00	0.00	0.02	0.00	5.48	2.00	0.00	0.00	0.02	0.00
5.50	2.00	0.00	0.00	0.02	0.00	5.52	2.00	0.00	0.00	0.02	0.00
5.54	2.00	0.00	0.00	0.02	0.00	5.56	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.02	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.62	2.00	0.00	0.00	0.02	0.00	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	2.00	0.00	0.00	0.02	0.00
5.86	2.00	0.00	0.00	0.02	0.00	5.88	2.00	0.00	0.00	0.02	0.00
5.90	2.00	0.00	0.00	0.02	0.00	5.92	2.00	0.00	0.00	0.02	0.00
5.94	2.00	0.00	0.00	0.02	0.00	5.96	2.00	0.00	0.00	0.02	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.02	0.00
6.02	2.00	0.00	0.00	0.02	0.00	6.04	2.00	0.00	0.00	0.02	0.00
6.06	2.00	0.00	0.00	0.02	0.00	6.08	2.00	0.00	0.00	0.02	0.00
6.10	2.00	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	1.20	0.00	0.00	0.02	0.00
6.62	1.57	0.00	0.00	0.02	0.00	6.64	1.92	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	1.13	0.00	0.00	0.02	0.00
8.70	1.27	0.00	0.00	0.02	0.00	8.72	1.65	0.00	0.00	0.02	0.00
8.74	1.67	0.00	0.00	0.02	0.00	8.76	1.52	0.00	0.00	0.02	0.00
8.78	1.23	0.00	0.00	0.02	0.00	8.80	1.21	0.00	0.00	0.02	0.00
8.82	1.53	0.00	0.00	0.02	0.00	8.84	1.92	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	1.57	0.00	0.00	0.02	0.00
9.14	1.28	0.00	0.00	0.02	0.00	9.16	1.31	0.00	0.00	0.02	0.00
9.18	1.27	0.00	0.00	0.02	0.00	9.20	1.36	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	1.41	0.00	0.00	0.02	0.00
9.42	1.42	0.00	0.00	0.02	0.00	9.44	1.44	0.00	0.00	0.02	0.00
9.46	1.92	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00
9.62	2.00	0.00	0.00	0.02	0.00	9.64	2.00	0.00	0.00	0.02	0.00
9.66	2.00	0.00	0.00	0.02	0.00	9.68	2.00	0.00	0.00	0.02	0.00
9.70	1.73	0.00	0.00	0.02	0.00	9.72	1.52	0.00	0.00	0.02	0.00
9.74	1.85	0.00	0.00	0.02	0.00	9.76	1.98	0.00	0.00	0.02	0.00
9.78	1.65	0.00	0.00	0.02	0.00	9.80	1.57	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	1.15	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.22	2.00	0.00	0.00	0.02	0.00	10.24	2.00	0.00	0.00	0.02	0.00
10.26	2.00	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	2.00	0.00	0.00	0.02	0.00	10.32	2.00	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
10.50	2.00	0.00	0.00	0.02	0.00						

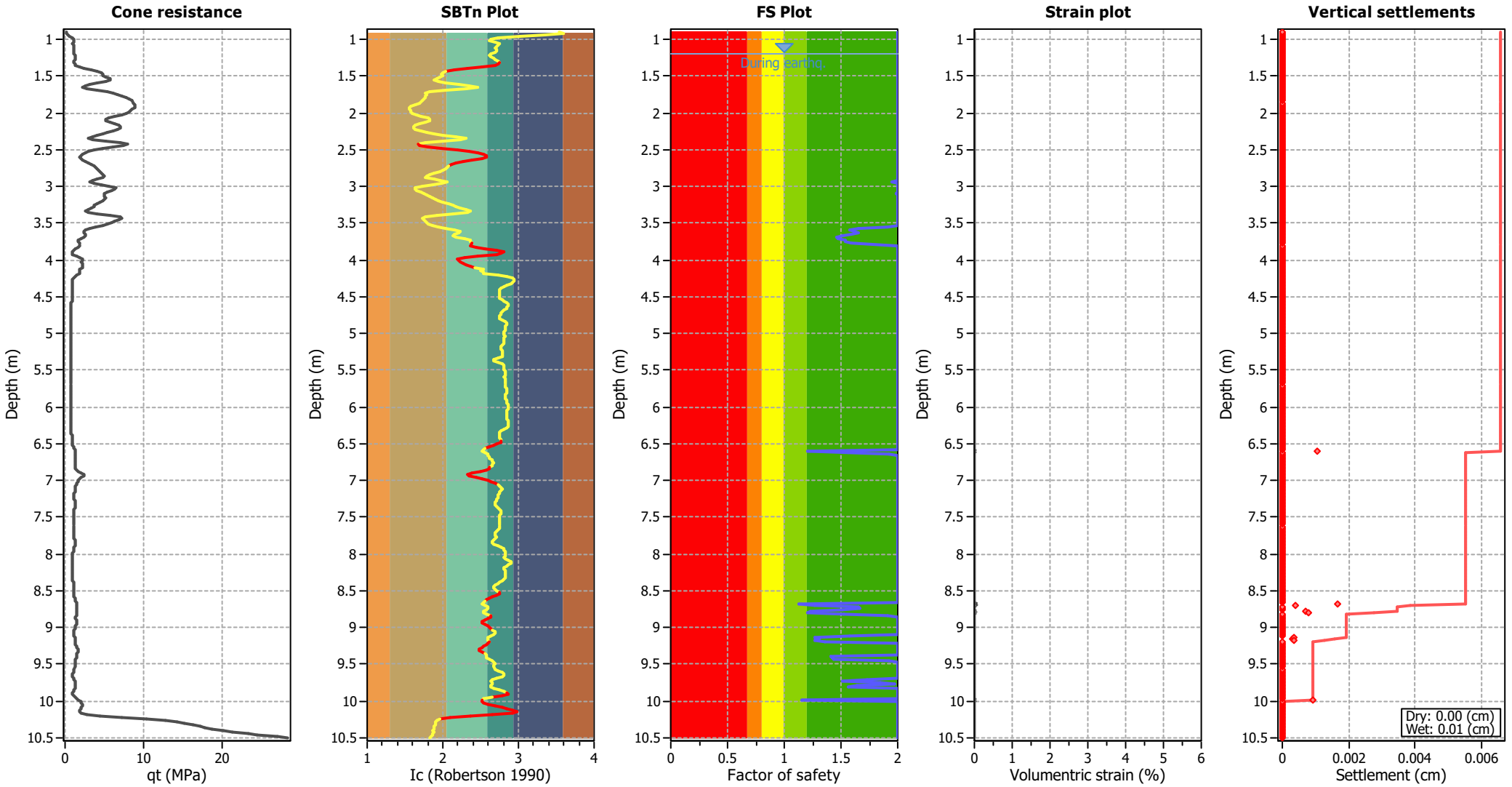
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
1.20	166.31	2.00	0.00	0.93	0.00	1.22	148.44	2.00	0.00	0.93	0.00
1.24	165.69	2.00	0.00	0.93	0.00	1.26	204.56	2.00	0.00	0.93	0.00
1.28	244.99	2.00	0.00	0.93	0.00	1.30	116.01	2.00	0.00	0.93	0.00
1.32	120.97	2.00	0.00	0.93	0.00	1.34	122.85	2.00	0.00	0.93	0.00
1.36	253.95	2.00	0.00	0.92	0.00	1.38	115.01	2.00	0.00	0.92	0.00
1.40	95.97	2.00	0.00	0.92	0.00	1.42	98.55	2.00	0.00	0.92	0.00
1.44	109.71	2.00	0.00	0.92	0.00	1.46	118.60	2.00	0.00	0.92	0.00
1.48	121.16	2.00	0.00	0.92	0.00	1.50	123.84	2.00	0.00	0.92	0.00
1.52	130.85	2.00	0.00	0.92	0.00	1.54	138.66	2.00	0.00	0.91	0.00
1.56	139.47	2.00	0.00	0.91	0.00	1.58	126.35	2.00	0.00	0.91	0.00
1.60	109.53	2.00	0.00	0.91	0.00	1.62	101.33	2.00	0.00	0.91	0.00
1.64	107.03	2.00	0.00	0.91	0.00	1.66	115.42	2.00	0.00	0.91	0.00
1.68	103.76	2.00	0.00	0.91	0.00	1.70	104.88	2.00	0.00	0.91	0.00
1.72	122.75	2.00	0.00	0.90	0.00	1.74	131.95	2.00	0.00	0.90	0.00
1.76	145.52	2.00	0.00	0.90	0.00	1.78	159.72	2.00	0.00	0.90	0.00
1.80	169.97	2.00	0.00	0.90	0.00	1.82	174.59	2.00	0.00	0.90	0.00
1.84	174.36	2.00	0.00	0.90	0.00	1.86	171.09	2.00	0.00	0.90	0.00
1.88	174.49	2.00	0.00	0.90	0.00	1.90	171.29	2.00	0.00	0.89	0.00
1.92	165.73	2.00	0.00	0.89	0.00	1.94	161.53	2.00	0.00	0.89	0.00
1.96	158.13	2.00	0.00	0.89	0.00	1.98	154.79	2.00	0.00	0.89	0.00
2.00	149.44	2.00	0.00	0.89	0.00	2.02	139.03	2.00	0.00	0.89	0.00
2.04	127.58	2.00	0.00	0.89	0.00	2.06	124.97	2.00	0.00	0.89	0.00
2.08	120.77	2.00	0.00	0.88	0.00	2.10	121.50	2.00	0.00	0.88	0.00
2.12	124.08	2.00	0.00	0.88	0.00	2.14	122.36	2.00	0.00	0.88	0.00
2.16	128.48	2.00	0.00	0.88	0.00	2.18	129.84	2.00	0.00	0.88	0.00
2.20	130.11	2.00	0.00	0.88	0.00	2.22	125.74	2.00	0.00	0.88	0.00
2.24	119.29	2.00	0.00	0.88	0.00	2.26	119.93	2.00	0.00	0.87	0.00
2.28	113.84	2.00	0.00	0.87	0.00	2.30	104.85	2.00	0.00	0.87	0.00
2.32	105.09	2.00	0.00	0.87	0.00	2.34	117.82	2.00	0.00	0.87	0.00
2.36	119.49	2.00	0.00	0.87	0.00	2.38	132.96	2.00	0.00	0.87	0.00
2.40	153.85	2.00	0.00	0.87	0.00	2.42	148.82	2.00	0.00	0.87	0.00
2.44	138.84	2.00	0.00	0.86	0.00	2.46	140.78	2.00	0.00	0.86	0.00
2.48	122.41	2.00	0.00	0.86	0.00	2.50	115.62	2.00	0.00	0.86	0.00
2.52	122.34	2.00	0.00	0.86	0.00	2.54	134.71	2.00	0.00	0.86	0.00
2.56	148.90	2.00	0.00	0.86	0.00	2.58	190.36	2.00	0.00	0.86	0.00
2.60	178.55	2.00	0.00	0.86	0.00	2.62	116.58	2.00	0.00	0.85	0.00
2.64	96.98	2.00	0.00	0.85	0.00	2.66	90.41	2.00	0.00	0.85	0.00
2.68	89.82	2.00	0.00	0.85	0.00	2.70	94.29	2.00	0.00	0.85	0.00
2.72	99.57	2.00	0.00	0.85	0.00	2.74	104.37	2.00	0.00	0.85	0.00
2.76	108.14	2.00	0.00	0.85	0.00	2.78	110.92	2.00	0.00	0.85	0.00
2.80	111.73	2.00	0.00	0.84	0.00	2.82	111.03	2.00	0.00	0.84	0.00
2.84	106.64	2.00	0.00	0.84	0.00	2.86	101.67	2.00	0.00	0.84	0.00
2.88	86.90	2.00	0.00	0.84	0.00	2.90	92.74	2.00	0.00	0.84	0.00
2.92	88.57	2.00	0.00	0.84	0.00	2.94	85.20	1.95	0.00	0.84	0.00
2.96	92.69	2.00	0.00	0.84	0.00	2.98	103.89	2.00	0.00	0.83	0.00
3.00	98.83	2.00	0.00	0.83	0.00	3.02	108.19	2.00	0.00	0.83	0.00
3.04	105.89	2.00	0.00	0.83	0.00	3.06	100.64	2.00	0.00	0.83	0.00
3.08	92.28	2.00	0.00	0.83	0.00	3.10	87.75	1.99	0.00	0.83	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
3.12	99.96	2.00	0.00	0.83	0.00	3.14	107.07	2.00	0.00	0.83	0.00
3.16	111.69	2.00	0.00	0.82	0.00	3.18	113.59	2.00	0.00	0.82	0.00
3.20	112.38	2.00	0.00	0.82	0.00	3.22	109.50	2.00	0.00	0.82	0.00
3.24	107.38	2.00	0.00	0.82	0.00	3.26	107.93	2.00	0.00	0.82	0.00
3.28	110.67	2.00	0.00	0.82	0.00	3.30	109.46	2.00	0.00	0.82	0.00
3.32	108.92	2.00	0.00	0.82	0.00	3.34	113.24	2.00	0.00	0.81	0.00
3.36	115.60	2.00	0.00	0.81	0.00	3.38	115.84	2.00	0.00	0.81	0.00
3.40	128.86	2.00	0.00	0.81	0.00	3.42	133.16	2.00	0.00	0.81	0.00
3.44	126.42	2.00	0.00	0.81	0.00	3.46	122.59	2.00	0.00	0.81	0.00
3.48	118.45	2.00	0.00	0.81	0.00	3.50	113.99	2.00	0.00	0.81	0.00
3.52	107.33	2.00	0.00	0.80	0.00	3.54	99.44	2.00	0.00	0.80	0.00
3.56	87.35	1.91	0.00	0.80	0.00	3.58	77.52	1.65	0.00	0.80	0.00
3.60	74.18	1.58	0.00	0.80	0.00	3.62	76.10	1.62	0.00	0.80	0.00
3.64	77.76	1.65	0.00	0.80	0.00	3.66	74.91	1.59	0.00	0.80	0.00
3.68	71.44	1.51	0.00	0.80	0.00	3.70	68.50	1.46	0.00	0.79	0.00
3.72	69.30	1.47	0.00	0.79	0.00	3.74	73.17	1.54	0.00	0.79	0.00
3.76	73.24	1.54	0.00	0.79	0.00	3.78	75.91	1.59	0.00	0.79	0.00
3.80	74.67	2.00	0.00	0.79	0.00	3.82	78.43	2.00	0.00	0.79	0.00
3.84	101.24	2.00	0.00	0.79	0.00	3.86	93.31	2.00	0.00	0.79	0.00
3.88	96.67	2.00	0.00	0.78	0.00	3.90	93.32	2.00	0.00	0.78	0.00
3.92	87.01	2.00	0.00	0.78	0.00	3.94	73.79	2.00	0.00	0.78	0.00
3.96	66.52	2.00	0.00	0.78	0.00	3.98	65.30	2.00	0.00	0.78	0.00
4.00	64.57	2.00	0.00	0.78	0.00	4.02	64.27	2.00	0.00	0.78	0.00
4.04	71.77	2.00	0.00	0.78	0.00	4.06	82.92	2.00	0.00	0.77	0.00
4.08	94.06	2.00	0.00	0.77	0.00	4.10	100.65	2.00	0.00	0.77	0.00
4.12	124.71	2.00	0.00	0.77	0.00	4.14	107.93	2.00	0.00	0.77	0.00
4.16	126.70	2.00	0.00	0.77	0.00	4.18	126.42	2.00	0.00	0.77	0.00
4.20	134.76	2.00	0.00	0.77	0.00	4.22	147.10	2.00	0.00	0.77	0.00
4.24	149.09	2.00	0.00	0.76	0.00	4.26	143.90	2.00	0.00	0.76	0.00
4.28	139.82	2.00	0.00	0.76	0.00	4.30	132.73	2.00	0.00	0.76	0.00
4.32	123.75	2.00	0.00	0.76	0.00	4.34	112.38	2.00	0.00	0.76	0.00
4.36	104.72	2.00	0.00	0.76	0.00	4.38	99.25	2.00	0.00	0.76	0.00
4.40	96.80	2.00	0.00	0.76	0.00	4.42	95.89	2.00	0.00	0.75	0.00
4.44	95.11	2.00	0.00	0.75	0.00	4.46	94.72	2.00	0.00	0.75	0.00
4.48	94.35	2.00	0.00	0.75	0.00	4.50	95.37	2.00	0.00	0.75	0.00
4.52	95.68	2.00	0.00	0.75	0.00	4.54	95.94	2.00	0.00	0.75	0.00
4.56	95.52	2.00	0.00	0.75	0.00	4.58	95.34	2.00	0.00	0.75	0.00
4.60	93.85	2.00	0.00	0.74	0.00	4.62	91.35	2.00	0.00	0.74	0.00
4.64	87.24	2.00	0.00	0.74	0.00	4.66	83.43	2.00	0.00	0.74	0.00
4.68	80.10	2.00	0.00	0.74	0.00	4.70	77.74	2.00	0.00	0.74	0.00
4.72	76.53	2.00	0.00	0.74	0.00	4.74	76.28	2.00	0.00	0.74	0.00
4.76	75.87	2.00	0.00	0.74	0.00	4.78	75.33	2.00	0.00	0.73	0.00
4.80	76.34	2.00	0.00	0.73	0.00	4.82	79.32	2.00	0.00	0.73	0.00
4.84	80.82	2.00	0.00	0.73	0.00	4.86	79.88	2.00	0.00	0.73	0.00
4.88	76.52	2.00	0.00	0.73	0.00	4.90	74.70	2.00	0.00	0.73	0.00
4.92	73.66	2.00	0.00	0.73	0.00	4.94	73.44	2.00	0.00	0.73	0.00
4.96	72.53	2.00	0.00	0.72	0.00	4.98	71.45	2.00	0.00	0.72	0.00
5.00	70.62	2.00	0.00	0.72	0.00	5.02	70.39	2.00	0.00	0.72	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
5.04	70.27	2.00	0.00	0.72	0.00	5.06	69.61	2.00	0.00	0.72	0.00
5.08	69.09	2.00	0.00	0.72	0.00	5.10	68.75	2.00	0.00	0.72	0.00
5.12	68.33	2.00	0.00	0.72	0.00	5.14	67.69	2.00	0.00	0.71	0.00
5.16	66.84	2.00	0.00	0.71	0.00	5.18	66.57	2.00	0.00	0.71	0.00
5.20	66.64	2.00	0.00	0.71	0.00	5.22	66.88	2.00	0.00	0.71	0.00
5.24	66.95	2.00	0.00	0.71	0.00	5.26	67.18	2.00	0.00	0.71	0.00
5.28	67.51	2.00	0.00	0.71	0.00	5.30	67.74	2.00	0.00	0.71	0.00
5.32	67.45	2.00	0.00	0.70	0.00	5.34	62.20	2.00	0.00	0.70	0.00
5.36	111.13	2.00	0.00	0.70	0.00	5.38	116.93	2.00	0.00	0.70	0.00
5.40	67.84	2.00	0.00	0.70	0.00	5.42	75.73	2.00	0.00	0.70	0.00
5.44	76.67	2.00	0.00	0.70	0.00	5.46	76.22	2.00	0.00	0.70	0.00
5.48	76.12	2.00	0.00	0.70	0.00	5.50	75.80	2.00	0.00	0.69	0.00
5.52	75.21	2.00	0.00	0.69	0.00	5.54	73.54	2.00	0.00	0.69	0.00
5.56	71.72	2.00	0.00	0.69	0.00	5.58	69.77	2.00	0.00	0.69	0.00
5.60	68.50	2.00	0.00	0.69	0.00	5.62	68.45	2.00	0.00	0.69	0.00
5.64	68.89	2.00	0.00	0.69	0.00	5.66	69.23	2.00	0.00	0.69	0.00
5.68	69.40	2.00	0.00	0.68	0.00	5.70	69.47	2.00	0.00	0.68	0.00
5.72	70.10	2.00	0.00	0.68	0.00	5.74	70.75	2.00	0.00	0.68	0.00
5.76	71.31	2.00	0.00	0.68	0.00	5.78	71.20	2.00	0.00	0.68	0.00
5.80	70.83	2.00	0.00	0.68	0.00	5.82	70.45	2.00	0.00	0.68	0.00
5.84	70.19	2.00	0.00	0.68	0.00	5.86	70.17	2.00	0.00	0.67	0.00
5.88	70.12	2.00	0.00	0.67	0.00	5.90	70.24	2.00	0.00	0.67	0.00
5.92	70.19	2.00	0.00	0.67	0.00	5.94	70.14	2.00	0.00	0.67	0.00
5.96	70.08	2.00	0.00	0.67	0.00	5.98	70.01	2.00	0.00	0.67	0.00
6.00	69.78	2.00	0.00	0.67	0.00	6.02	69.54	2.00	0.00	0.67	0.00
6.04	68.98	2.00	0.00	0.66	0.00	6.06	68.67	2.00	0.00	0.66	0.00
6.08	68.27	2.00	0.00	0.66	0.00	6.10	68.35	2.00	0.00	0.66	0.00
6.12	68.25	2.00	0.00	0.66	0.00	6.14	68.19	2.00	0.00	0.66	0.00
6.16	68.14	2.00	0.00	0.66	0.00	6.18	68.46	2.00	0.00	0.66	0.00
6.20	68.67	2.00	0.00	0.66	0.00	6.22	68.84	2.00	0.00	0.65	0.00
6.24	68.86	2.00	0.00	0.65	0.00	6.26	68.99	2.00	0.00	0.65	0.00
6.28	68.34	2.00	0.00	0.65	0.00	6.30	66.71	2.00	0.00	0.65	0.00
6.32	65.15	2.00	0.00	0.65	0.00	6.34	64.53	2.00	0.00	0.65	0.00
6.36	65.11	2.00	0.00	0.65	0.00	6.38	66.43	2.00	0.00	0.65	0.00
6.40	67.49	2.00	0.00	0.64	0.00	6.42	69.37	2.00	0.00	0.64	0.00
6.44	70.58	2.00	0.00	0.64	0.00	6.46	71.53	2.00	0.00	0.64	0.00
6.48	71.40	2.00	0.00	0.64	0.00	6.50	68.90	2.00	0.00	0.64	0.00
6.52	124.45	2.00	0.00	0.64	0.00	6.54	98.45	2.00	0.00	0.64	0.00
6.56	70.64	2.00	0.00	0.64	0.00	6.58	65.42	2.00	0.00	0.63	0.00
6.60	64.35	1.20	0.05	0.63	0.00	6.62	84.77	1.57	0.00	0.63	0.00
6.64	98.01	1.92	0.00	0.63	0.00	6.66	106.06	2.00	0.00	0.63	0.00
6.68	112.52	2.00	0.00	0.63	0.00	6.70	123.50	2.00	0.00	0.63	0.00
6.72	140.85	2.00	0.00	0.63	0.00	6.74	154.04	2.00	0.00	0.63	0.00
6.76	155.47	2.00	0.00	0.62	0.00	6.78	145.39	2.00	0.00	0.62	0.00
6.80	138.53	2.00	0.00	0.62	0.00	6.82	122.82	2.00	0.00	0.62	0.00
6.84	117.42	2.00	0.00	0.62	0.00	6.86	97.10	2.00	0.00	0.62	0.00
6.88	70.47	2.00	0.00	0.62	0.00	6.90	66.94	2.00	0.00	0.62	0.00
6.92	68.20	2.00	0.00	0.62	0.00	6.94	71.85	2.00	0.00	0.61	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
6.96	77.97	2.00	0.00	0.61	0.00	6.98	85.18	2.00	0.00	0.61	0.00
7.00	122.89	2.00	0.00	0.61	0.00	7.02	160.29	2.00	0.00	0.61	0.00
7.04	207.30	2.00	0.00	0.61	0.00	7.06	104.46	2.00	0.00	0.61	0.00
7.08	105.00	2.00	0.00	0.61	0.00	7.10	104.26	2.00	0.00	0.61	0.00
7.12	101.58	2.00	0.00	0.60	0.00	7.14	97.51	2.00	0.00	0.60	0.00
7.16	91.54	2.00	0.00	0.60	0.00	7.18	87.05	2.00	0.00	0.60	0.00
7.20	84.04	2.00	0.00	0.60	0.00	7.22	82.81	2.00	0.00	0.60	0.00
7.24	82.23	2.00	0.00	0.60	0.00	7.26	81.50	2.00	0.00	0.60	0.00
7.28	80.30	2.00	0.00	0.60	0.00	7.30	163.53	2.00	0.00	0.59	0.00
7.32	163.00	2.00	0.00	0.59	0.00	7.34	170.20	2.00	0.00	0.59	0.00
7.36	82.80	2.00	0.00	0.59	0.00	7.38	84.11	2.00	0.00	0.59	0.00
7.40	85.76	2.00	0.00	0.59	0.00	7.42	86.34	2.00	0.00	0.59	0.00
7.44	86.24	2.00	0.00	0.59	0.00	7.46	84.51	2.00	0.00	0.59	0.00
7.48	83.04	2.00	0.00	0.58	0.00	7.50	81.86	2.00	0.00	0.58	0.00
7.52	81.51	2.00	0.00	0.58	0.00	7.54	81.12	2.00	0.00	0.58	0.00
7.56	80.66	2.00	0.00	0.58	0.00	7.58	80.38	2.00	0.00	0.58	0.00
7.60	79.61	2.00	0.00	0.58	0.00	7.62	78.89	2.00	0.00	0.58	0.00
7.64	77.87	2.00	0.00	0.58	0.00	7.66	76.54	2.00	0.00	0.57	0.00
7.68	74.80	2.00	0.00	0.57	0.00	7.70	154.61	2.00	0.00	0.57	0.00
7.72	146.63	2.00	0.00	0.57	0.00	7.74	151.26	2.00	0.00	0.57	0.00
7.76	73.17	2.00	0.00	0.57	0.00	7.78	73.06	2.00	0.00	0.57	0.00
7.80	143.95	2.00	0.00	0.57	0.00	7.82	130.77	2.00	0.00	0.57	0.00
7.84	133.92	2.00	0.00	0.56	0.00	7.86	152.44	2.00	0.00	0.56	0.00
7.88	81.25	2.00	0.00	0.56	0.00	7.90	84.67	2.00	0.00	0.56	0.00
7.92	86.52	2.00	0.00	0.56	0.00	7.94	84.30	2.00	0.00	0.56	0.00
7.96	83.07	2.00	0.00	0.56	0.00	7.98	81.67	2.00	0.00	0.56	0.00
8.00	80.43	2.00	0.00	0.56	0.00	8.02	78.79	2.00	0.00	0.55	0.00
8.04	76.41	2.00	0.00	0.55	0.00	8.06	75.82	2.00	0.00	0.55	0.00
8.08	76.10	2.00	0.00	0.55	0.00	8.10	77.50	2.00	0.00	0.55	0.00
8.12	78.08	2.00	0.00	0.55	0.00	8.14	76.75	2.00	0.00	0.55	0.00
8.16	75.15	2.00	0.00	0.55	0.00	8.18	73.86	2.00	0.00	0.55	0.00
8.20	74.56	2.00	0.00	0.54	0.00	8.22	75.95	2.00	0.00	0.54	0.00
8.24	77.18	2.00	0.00	0.54	0.00	8.26	76.73	2.00	0.00	0.54	0.00
8.28	75.63	2.00	0.00	0.54	0.00	8.30	74.59	2.00	0.00	0.54	0.00
8.32	74.01	2.00	0.00	0.54	0.00	8.34	72.06	2.00	0.00	0.54	0.00
8.36	68.96	2.00	0.00	0.54	0.00	8.38	66.45	2.00	0.00	0.53	0.00
8.40	63.87	2.00	0.00	0.53	0.00	8.42	62.56	2.00	0.00	0.53	0.00
8.44	120.23	2.00	0.00	0.53	0.00	8.46	121.57	2.00	0.00	0.53	0.00
8.48	129.71	2.00	0.00	0.53	0.00	8.50	63.56	2.00	0.00	0.53	0.00
8.52	64.46	2.00	0.00	0.53	0.00	8.54	64.75	2.00	0.00	0.53	0.00
8.56	63.66	2.00	0.00	0.52	0.00	8.58	109.42	2.00	0.00	0.52	0.00
8.60	87.41	2.00	0.00	0.52	0.00	8.62	76.09	2.00	0.00	0.52	0.00
8.64	68.41	2.00	0.00	0.52	0.00	8.66	60.94	2.00	0.00	0.52	0.00
8.68	60.59	1.13	0.08	0.52	0.00	8.70	71.11	1.27	0.02	0.52	0.00
8.72	89.93	1.65	0.00	0.52	0.00	8.74	97.34	1.67	0.00	0.51	0.00
8.76	84.23	1.52	0.00	0.51	0.00	8.78	68.71	1.23	0.04	0.51	0.00
8.80	67.12	1.21	0.04	0.51	0.00	8.82	84.98	1.53	0.00	0.51	0.00
8.84	105.95	1.92	0.00	0.51	0.00	8.86	110.14	2.00	0.00	0.51	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
8.88	86.72	2.00	0.00	0.51	0.00	8.90	65.77	2.00	0.00	0.51	0.00
8.92	56.57	2.00	0.00	0.50	0.00	8.94	55.96	2.00	0.00	0.50	0.00
8.96	67.38	2.00	0.00	0.50	0.00	8.98	80.70	2.00	0.00	0.50	0.00
9.00	91.48	2.00	0.00	0.50	0.00	9.02	100.24	2.00	0.00	0.50	0.00
9.04	109.21	2.00	0.00	0.50	0.00	9.06	125.75	2.00	0.00	0.50	0.00
9.08	124.95	2.00	0.00	0.50	0.00	9.10	115.23	2.00	0.00	0.49	0.00
9.12	93.71	1.57	0.00	0.49	0.00	9.14	79.67	1.28	0.02	0.49	0.00
9.16	73.92	1.31	0.02	0.49	0.00	9.18	79.32	1.27	0.02	0.49	0.00
9.20	84.25	1.36	0.00	0.49	0.00	9.22	78.69	2.00	0.00	0.49	0.00
9.24	71.00	2.00	0.00	0.49	0.00	9.26	61.22	2.00	0.00	0.49	0.00
9.28	53.28	2.00	0.00	0.48	0.00	9.30	52.82	2.00	0.00	0.48	0.00
9.32	54.42	2.00	0.00	0.48	0.00	9.34	57.70	2.00	0.00	0.48	0.00
9.36	70.73	2.00	0.00	0.48	0.00	9.38	81.10	2.00	0.00	0.48	0.00
9.40	79.60	1.41	0.00	0.48	0.00	9.42	79.77	1.42	0.00	0.48	0.00
9.44	88.11	1.44	0.00	0.48	0.00	9.46	106.20	1.92	0.00	0.47	0.00
9.48	124.40	2.00	0.00	0.47	0.00	9.50	131.80	2.00	0.00	0.47	0.00
9.52	123.25	2.00	0.00	0.47	0.00	9.54	116.08	2.00	0.00	0.47	0.00
9.56	125.82	2.00	0.00	0.47	0.00	9.58	63.65	2.00	0.00	0.47	0.00
9.60	65.95	2.00	0.00	0.47	0.00	9.62	65.27	2.00	0.00	0.47	0.00
9.64	63.61	2.00	0.00	0.46	0.00	9.66	60.64	2.00	0.00	0.46	0.00
9.68	57.22	2.00	0.00	0.46	0.00	9.70	99.87	1.73	0.00	0.46	0.00
9.72	91.49	1.52	0.00	0.46	0.00	9.74	103.99	1.85	0.00	0.46	0.00
9.76	107.92	1.98	0.00	0.46	0.00	9.78	96.70	1.65	0.00	0.46	0.00
9.80	93.59	1.57	0.00	0.46	0.00	9.82	115.24	2.00	0.00	0.45	0.00
9.84	64.32	2.00	0.00	0.45	0.00	9.86	66.67	2.00	0.00	0.45	0.00
9.88	67.00	2.00	0.00	0.45	0.00	9.90	65.89	2.00	0.00	0.45	0.00
9.92	62.87	2.00	0.00	0.45	0.00	9.94	105.07	2.00	0.00	0.45	0.00
9.96	62.16	2.00	0.00	0.45	0.00	9.98	63.24	1.15	0.05	0.45	0.00
10.00	69.32	2.00	0.00	0.44	0.00	10.02	91.31	2.00	0.00	0.44	0.00
10.04	128.30	2.00	0.00	0.44	0.00	10.06	240.52	2.00	0.00	0.44	0.00
10.08	135.18	2.00	0.00	0.44	0.00	10.10	154.96	2.00	0.00	0.44	0.00
10.12	168.81	2.00	0.00	0.44	0.00	10.14	174.56	2.00	0.00	0.44	0.00
10.16	168.12	2.00	0.00	0.44	0.00	10.18	253.02	2.00	0.00	0.43	0.00
10.20	109.29	2.00	0.00	0.43	0.00	10.22	114.16	2.00	0.00	0.43	0.00
10.24	146.63	2.00	0.00	0.43	0.00	10.26	177.88	2.00	0.00	0.43	0.00
10.28	197.56	2.00	0.00	0.43	0.00	10.30	210.80	2.00	0.00	0.43	0.00
10.32	223.16	2.00	0.00	0.43	0.00	10.34	233.22	2.00	0.00	0.43	0.00
10.36	240.88	2.00	0.00	0.42	0.00	10.38	251.94	2.00	0.00	0.42	0.00
10.40	270.39	2.00	0.00	0.42	0.00	10.42	288.01	2.00	0.00	0.42	0.00
10.44	313.09	2.00	0.00	0.42	0.00	10.46	327.53	2.00	0.00	0.42	0.00
10.48	352.18	2.00	0.00	0.42	0.00	10.50	362.66	2.00	0.00	0.42	0.00

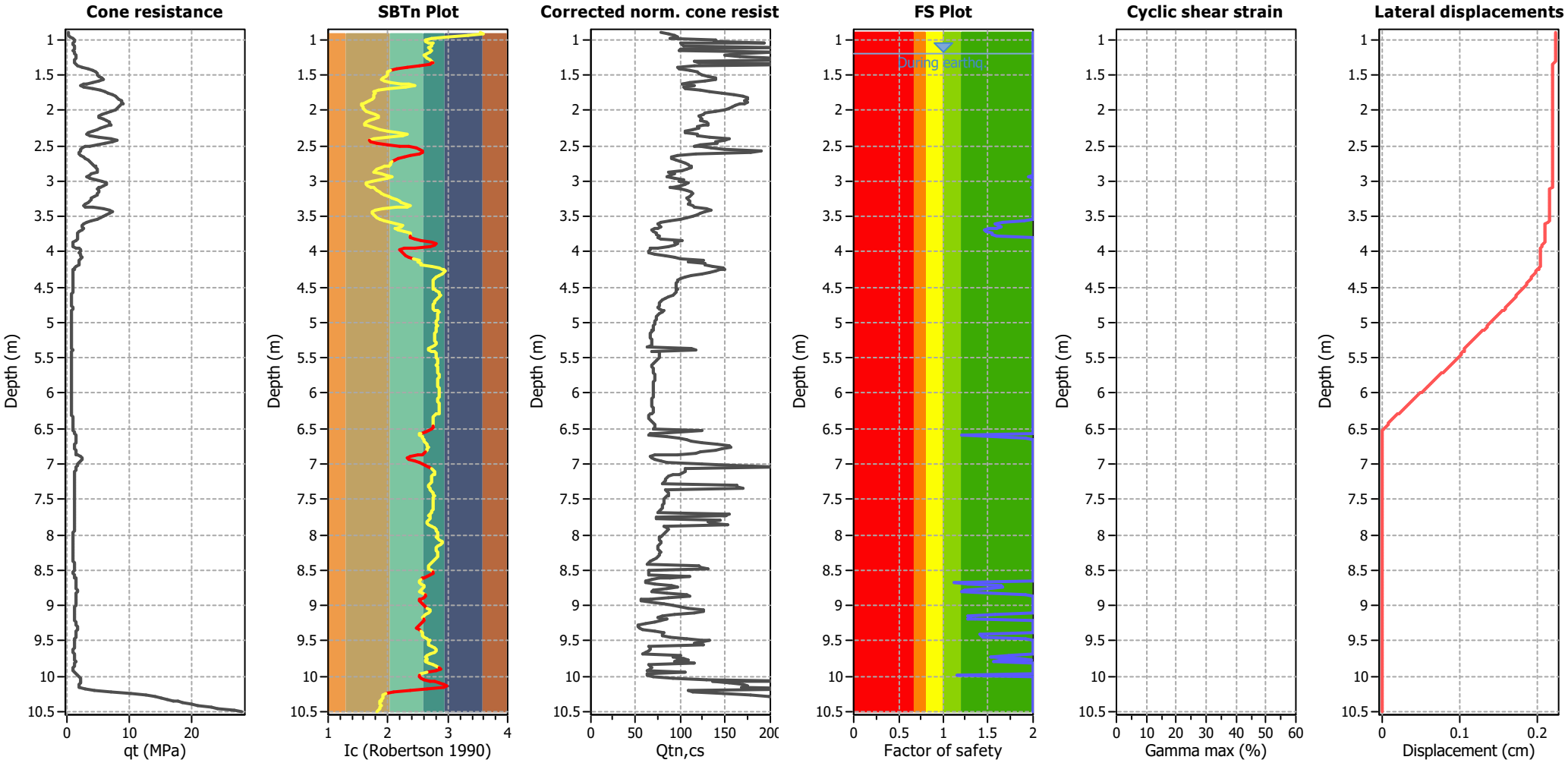
Total estimated settlement: 0.01

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Estimation of post-earthquake lateral Displacements

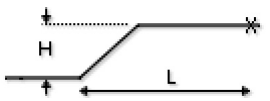
Geometric parameters: Level ground (or gently sloping) with free face (L: 27.70 m - H: 3.40 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
1.20	1.19	23.18	2.36	166.31	2.00	18.75	0.00	0.00
1.22	1.30	25.24	2.35	148.44	2.00	21.57	0.00	0.00
1.24	1.32	25.66	2.53	165.69	2.00	22.10	0.00	0.00
1.26	1.29	25.17	2.83	204.56	2.00	21.47	0.00	0.00
1.28	1.24	24.17	3.06	244.99	2.00	20.13	0.00	0.00
1.30	1.20	23.28	3.21	116.01	2.00	18.89	0.05	0.00
1.32	1.18	22.97	3.46	120.97	2.00	18.44	0.05	0.00
1.34	1.24	24.09	3.48	122.85	2.00	20.02	0.05	0.00
1.36	1.35	26.30	3.29	253.95	2.00	22.92	0.00	0.00
1.38	1.76	34.24	2.51	115.01	2.00	31.62	0.00	0.00
1.40	2.45	47.85	1.79	95.97	2.00	42.67	0.00	0.00
1.42	3.35	65.59	1.41	98.55	2.00	53.08	0.00	0.00
1.44	4.15	81.47	1.25	109.71	2.00	60.24	0.00	0.00
1.46	4.63	90.87	1.21	118.60	2.00	63.84	0.00	0.00
1.48	4.75	93.30	1.21	121.16	2.00	64.71	0.00	0.00
1.50	4.84	95.03	1.27	123.84	2.00	65.32	0.00	0.00
1.52	5.19	101.91	1.25	130.85	2.00	67.62	0.00	0.00
1.54	5.63	110.72	1.17	138.66	2.00	70.36	0.00	0.00
1.56	5.77	113.39	1.07	139.47	2.00	71.15	0.00	0.00
1.58	5.11	100.35	1.09	126.35	2.00	67.12	0.00	0.00
1.60	4.14	81.27	1.25	109.53	2.00	60.15	0.00	0.00
1.62	3.14	61.46	1.64	101.33	2.00	50.93	0.00	0.00
1.64	2.57	50.17	2.10	107.03	2.00	44.23	0.00	0.00
1.66	2.22	43.23	2.53	115.42	2.00	39.32	0.00	0.00
1.68	2.74	53.60	1.92	103.76	2.00	46.42	0.00	0.00
1.70	4.01	78.67	1.14	104.88	2.00	59.08	0.00	0.00
1.72	5.29	103.95	0.77	122.75	2.00	68.28	0.00	0.00
1.74	6.09	119.64	0.72	131.95	2.00	72.92	0.00	0.00
1.76	6.55	128.82	0.85	145.52	2.00	75.36	0.00	0.00
1.78	7.26	142.70	0.93	159.72	2.00	78.74	0.00	0.00
1.80	7.81	153.52	0.97	169.97	2.00	81.15	0.00	0.00
1.82	8.16	160.58	0.98	174.59	2.00	82.63	0.00	0.00
1.84	8.42	165.60	0.95	174.36	2.00	83.65	0.00	0.00
1.86	8.70	171.09	0.86	171.09	2.00	84.72	0.00	0.00
1.88	8.87	174.49	0.71	174.49	2.00	85.37	0.00	0.00
1.90	8.92	171.29	0.59	171.29	2.00	84.76	0.00	0.00
1.92	8.78	165.73	0.51	165.73	2.00	83.67	0.00	0.00
1.94	8.56	161.53	0.50	161.53	2.00	82.83	0.00	0.00
1.96	8.36	158.13	0.51	158.13	2.00	82.12	0.00	0.00
1.98	8.17	154.79	0.51	154.79	2.00	81.42	0.00	0.00
2.00	7.82	149.44	0.53	149.44	2.00	80.26	0.00	0.00
2.02	7.15	139.03	0.57	139.03	2.00	77.88	0.00	0.00
2.04	6.30	123.67	0.64	127.58	2.00	74.01	0.00	0.00
2.06	5.53	108.51	0.73	124.97	2.00	69.70	0.00	0.00
2.08	5.19	101.68	0.77	120.77	2.00	67.55	0.00	0.00
2.10	5.22	102.31	0.77	121.50	2.00	67.75	0.00	0.00
2.12	5.72	112.29	0.67	124.08	2.00	70.83	0.00	0.00
2.14	6.27	122.36	0.56	122.36	2.00	73.66	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
2.16	6.80	128.48	0.48	128.48	2.00	75.27	0.00	0.00
2.18	6.95	129.84	0.45	129.84	2.00	75.62	0.00	0.00
2.20	6.99	130.11	0.44	130.11	2.00	75.69	0.00	0.00
2.22	6.70	125.74	0.46	125.74	2.00	74.56	0.00	0.00
2.24	6.17	119.29	0.57	119.29	2.00	72.82	0.00	0.00
2.26	5.42	106.21	0.66	119.93	2.00	68.99	0.00	0.00
2.28	4.76	93.30	0.80	113.84	2.00	64.71	0.00	0.00
2.30	4.11	80.45	1.03	104.85	2.00	59.82	0.00	0.00
2.32	3.50	68.31	1.57	105.09	2.00	54.42	0.00	0.00
2.34	3.04	59.16	2.25	117.82	2.00	49.67	0.00	0.00
2.36	3.58	69.96	2.04	119.49	2.00	55.21	0.00	0.00
2.38	5.22	102.30	1.35	132.96	2.00	67.75	0.00	0.00
2.40	7.10	138.41	0.88	153.85	2.00	77.73	0.00	0.00
2.42	7.99	148.82	0.69	148.82	2.00	80.12	0.00	0.00
2.44	7.39	138.84	0.70	138.84	2.00	77.83	0.00	0.00
2.46	6.14	120.43	0.88	140.78	2.00	73.14	0.00	0.00
2.48	4.82	94.33	1.22	122.41	2.00	65.07	0.00	0.00
2.50	3.75	73.13	1.81	115.62	2.00	56.67	0.00	0.00
2.52	2.99	58.12	2.41	122.34	2.00	49.09	0.00	0.00
2.54	2.50	48.51	3.02	134.71	2.00	43.12	0.00	0.00
2.56	2.26	43.80	3.30	148.90	2.00	39.75	0.00	0.00
2.58	2.04	39.44	3.53	190.36	2.00	36.29	0.00	0.00
2.60	1.92	37.06	3.29	178.55	2.00	34.24	0.00	0.00
2.62	1.97	37.99	2.67	116.58	2.00	35.05	0.00	0.00
2.64	2.21	42.83	1.91	96.98	2.00	39.01	0.00	0.00
2.66	2.55	49.39	1.55	90.41	2.00	43.72	0.00	0.00
2.68	2.96	57.45	1.33	89.82	2.00	48.71	0.00	0.00
2.70	3.36	65.36	1.24	94.29	2.00	52.96	0.00	0.00
2.72	3.70	72.06	1.19	99.57	2.00	56.18	0.00	0.00
2.74	3.95	77.04	1.19	104.37	2.00	58.39	0.00	0.00
2.76	4.15	80.92	1.19	108.14	2.00	60.01	0.00	0.00
2.78	4.33	84.46	1.14	110.92	2.00	61.43	0.00	0.00
2.80	4.50	87.82	0.99	111.73	2.00	62.71	0.00	0.00
2.82	4.67	90.13	0.81	111.03	2.00	63.57	0.00	0.00
2.84	4.85	90.75	0.62	106.64	2.00	63.80	0.00	0.00
2.86	4.91	89.83	0.52	101.67	2.00	63.46	0.00	0.00
2.88	4.78	86.90	0.47	86.90	2.00	62.37	0.00	0.00
2.90	3.99	75.79	0.60	92.74	2.00	57.85	0.00	0.00
2.92	3.56	69.29	0.74	88.57	2.00	54.89	0.00	0.00
2.94	3.22	62.49	0.93	85.20	1.95	51.48	0.06	0.00
2.96	3.67	71.48	0.85	92.69	2.00	55.92	0.00	0.00
2.98	4.59	85.74	0.68	103.89	2.00	61.92	0.00	0.00
3.00	5.61	98.83	0.48	98.83	2.00	66.61	0.00	0.00
3.02	6.39	108.19	0.37	108.19	2.00	69.60	0.00	0.00
3.04	6.28	105.89	0.35	105.89	2.00	68.89	0.00	0.00
3.06	5.93	100.64	0.36	100.64	2.00	67.21	0.00	0.00
3.08	5.35	92.28	0.38	92.28	2.00	64.35	0.00	0.00
3.10	5.00	87.75	0.43	87.75	1.99	62.69	0.17	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
3.12	4.90	87.30	0.52	99.96	2.00	62.52	0.00	0.00
3.14	5.05	90.87	0.63	107.07	2.00	63.84	0.00	0.00
3.16	5.08	92.53	0.74	111.69	2.00	64.44	0.00	0.00
3.18	4.96	91.75	0.86	113.59	2.00	64.16	0.00	0.00
3.20	4.74	88.84	0.96	112.38	2.00	63.09	0.00	0.00
3.22	4.34	83.27	1.13	109.50	2.00	60.96	0.00	0.00
3.24	3.98	77.40	1.32	107.38	2.00	58.54	0.00	0.00
3.26	3.76	73.09	1.52	107.93	2.00	56.65	0.00	0.00
3.28	3.62	70.39	1.71	110.67	2.00	55.41	0.00	0.00
3.30	3.35	64.95	1.82	109.46	2.00	52.75	0.00	0.00
3.32	2.93	56.74	2.00	108.92	2.00	48.29	0.00	0.00
3.34	2.62	50.69	2.27	113.24	2.00	44.58	0.00	0.00
3.36	2.93	56.66	2.22	115.60	2.00	48.25	0.00	0.00
3.38	4.02	78.28	1.65	115.84	2.00	58.92	0.00	0.00
3.40	5.72	103.31	1.05	128.86	2.00	68.07	0.00	0.00
3.42	6.93	118.43	0.75	133.16	2.00	72.58	0.00	0.00
3.44	7.27	121.54	0.64	126.42	2.00	73.44	0.00	0.00
3.46	6.78	113.83	0.63	122.59	2.00	71.28	0.00	0.00
3.48	6.25	105.75	0.64	118.45	2.00	68.85	0.00	0.00
3.50	5.86	99.61	0.63	113.99	2.00	66.87	0.00	0.00
3.52	5.38	91.87	0.61	107.33	2.00	64.20	0.00	0.00
3.54	4.76	82.34	0.62	99.44	2.00	60.59	0.00	0.00
3.56	3.90	69.23	0.66	87.35	1.91	54.86	0.07	0.00
3.58	3.17	58.02	0.75	77.52	1.65	49.03	0.17	0.00
3.60	2.57	48.92	0.97	74.18	1.58	43.40	0.00	0.00
3.62	2.32	44.64	1.16	76.10	1.62	40.38	0.00	0.00
3.64	2.43	46.74	1.16	77.76	1.65	41.90	0.00	0.00
3.66	2.62	49.41	0.98	74.91	1.59	43.73	0.00	0.00
3.68	2.61	48.62	0.86	71.44	1.51	43.20	0.00	0.00
3.70	2.31	43.60	0.90	68.50	1.46	39.60	0.00	0.00
3.72	1.95	37.26	1.08	69.30	1.47	34.41	0.00	0.00
3.74	1.75	33.24	1.27	73.17	1.54	30.65	0.00	0.00
3.76	1.73	32.88	1.28	73.24	1.54	30.28	0.00	0.00
3.78	1.77	33.70	1.36	75.91	1.59	31.10	0.00	0.00
3.80	1.76	33.41	1.32	74.67	2.00	30.82	0.00	0.00
3.82	1.59	30.04	1.50	78.43	2.00	27.30	0.00	0.00
3.84	1.29	24.23	1.75	101.24	2.00	20.22	0.00	0.00
3.86	1.03	19.00	2.30	93.31	2.00	12.18	0.06	0.00
3.88	0.88	16.14	2.60	96.67	2.00	6.80	0.07	0.00
3.90	0.91	16.74	2.40	93.32	2.00	8.01	0.07	0.00
3.92	0.99	18.16	2.06	87.01	2.00	10.69	0.06	0.00
3.94	1.45	27.33	1.38	73.79	2.00	24.19	0.00	0.00
3.96	1.91	35.89	1.01	66.52	2.00	33.18	0.00	0.00
3.98	2.22	40.66	0.86	65.30	2.00	37.30	0.00	0.00
4.00	2.12	39.03	0.87	64.57	2.00	35.95	0.00	0.00
4.02	2.02	37.29	0.90	64.27	2.00	34.44	0.00	0.00
4.04	2.15	39.95	1.11	71.77	2.00	36.71	0.00	0.00
4.06	2.25	42.39	1.43	82.92	2.00	38.67	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
4.08	2.28	43.60	1.78	94.06	2.00	39.60	0.00	0.00
4.10	2.14	40.86	2.04	100.65	2.00	37.46	0.00	0.00
4.12	1.84	34.87	2.58	124.71	2.00	32.23	0.00	0.00
4.14	1.90	36.14	2.45	107.93	2.00	33.41	0.00	0.00
4.16	1.82	34.45	2.58	126.70	2.00	31.83	0.00	0.00
4.18	1.81	34.40	2.58	126.42	2.00	31.78	0.00	0.00
4.20	1.44	27.08	3.70	134.76	2.00	23.89	0.05	0.00
4.22	1.22	22.76	4.59	147.10	2.00	18.14	0.05	0.00
4.24	1.09	20.05	5.01	149.09	2.00	13.96	0.06	0.00
4.26	1.01	18.44	4.93	143.90	2.00	11.20	0.06	0.00
4.28	0.97	17.71	4.79	139.82	2.00	9.87	0.06	0.00
4.30	0.95	17.31	4.42	132.73	2.00	9.11	0.07	0.00
4.32	0.95	17.25	3.90	123.75	2.00	9.00	0.07	0.00
4.34	0.95	17.33	3.28	112.38	2.00	9.15	0.07	0.00
4.36	0.97	17.65	2.87	104.72	2.00	9.75	0.07	0.00
4.38	0.98	17.90	2.59	99.25	2.00	10.22	0.06	0.00
4.40	0.99	18.08	2.47	96.80	2.00	10.55	0.06	0.00
4.42	0.99	18.09	2.43	95.89	2.00	10.57	0.06	0.00
4.44	0.98	17.94	2.40	95.11	2.00	10.28	0.06	0.00
4.46	0.98	17.90	2.38	94.72	2.00	10.22	0.06	0.00
4.48	0.99	18.07	2.36	94.35	2.00	10.53	0.06	0.00
4.50	1.00	18.22	2.40	95.37	2.00	10.81	0.06	0.00
4.52	0.99	17.95	2.42	95.68	2.00	10.31	0.06	0.00
4.54	0.94	17.10	2.48	95.94	2.00	8.71	0.07	0.00
4.56	0.89	16.00	2.52	95.52	2.00	6.51	0.07	0.00
4.58	0.83	14.78	2.59	95.34	2.00	3.90	0.07	0.00
4.60	0.78	13.91	2.58	93.85	2.00	1.89	0.08	0.00
4.62	0.76	13.43	2.48	91.35	2.00	0.74	0.08	0.00
4.64	0.75	13.29	2.28	87.24	2.00	0.38	0.08	0.00
4.66	0.75	13.18	2.09	83.43	2.00	0.11	0.08	0.00
4.68	0.75	13.24	1.93	80.10	2.00	0.28	0.08	0.00
4.70	0.77	13.59	1.80	77.74	2.00	1.12	0.08	0.00
4.72	0.79	14.04	1.73	76.53	2.00	2.19	0.08	0.00
4.74	0.80	14.19	1.71	76.28	2.00	2.55	0.08	0.00
4.76	0.80	14.21	1.69	75.87	2.00	2.60	0.08	0.00
4.78	0.81	14.36	1.66	75.33	2.00	2.95	0.07	0.00
4.80	0.82	14.50	1.70	76.34	2.00	3.27	0.07	0.00
4.82	0.80	14.11	1.85	79.32	2.00	2.36	0.08	0.00
4.84	0.75	13.14	1.96	80.82	2.00	0.02	0.08	0.00
4.86	0.70	12.28	1.96	79.88	2.00	0.00	0.08	0.00
4.88	0.69	11.95	1.82	76.52	2.00	0.00	0.08	0.00
4.90	0.69	11.89	1.73	74.70	2.00	0.00	0.08	0.00
4.92	0.68	11.83	1.68	73.66	2.00	0.00	0.08	0.00
4.94	0.68	11.77	1.68	73.44	2.00	0.00	0.08	0.00
4.96	0.69	11.89	1.63	72.53	2.00	0.00	0.08	0.00
4.98	0.69	11.97	1.57	71.45	2.00	0.00	0.08	0.00
5.00	0.68	11.82	1.54	70.62	2.00	0.00	0.08	0.00
5.02	0.67	11.63	1.54	70.39	2.00	0.00	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
5.04	0.67	11.50	1.54	70.27	2.00	0.00	0.08	0.00
5.06	0.67	11.50	1.51	69.61	2.00	0.00	0.08	0.00
5.08	0.67	11.48	1.48	69.09	2.00	0.00	0.08	0.00
5.10	0.66	11.42	1.47	68.75	2.00	0.00	0.09	0.00
5.12	0.67	11.47	1.45	68.33	2.00	0.00	0.08	0.00
5.14	0.67	11.60	1.41	67.69	2.00	0.00	0.08	0.00
5.16	0.68	11.78	1.37	66.84	2.00	0.00	0.08	0.00
5.18	0.69	11.93	1.35	66.57	2.00	0.00	0.08	0.00
5.20	0.70	12.04	1.35	66.64	2.00	0.00	0.08	0.00
5.22	0.70	12.06	1.36	66.88	2.00	0.00	0.08	0.00
5.24	0.70	11.93	1.37	66.95	2.00	0.00	0.08	0.00
5.26	0.69	11.79	1.38	67.18	2.00	0.00	0.08	0.00
5.28	0.69	11.71	1.40	67.51	2.00	0.00	0.08	0.00
5.30	0.69	11.67	1.41	67.74	2.00	0.00	0.08	0.00
5.32	0.70	11.89	1.39	67.45	2.00	0.00	0.08	0.00
5.34	0.74	12.36	1.16	62.20	2.00	0.00	0.08	0.00
5.36	0.77	12.80	0.95	111.13	2.00	0.00	0.00	0.00
5.38	0.80	13.32	1.04	116.93	2.00	0.47	0.00	0.00
5.40	0.79	13.30	1.37	67.84	2.00	0.41	0.08	0.00
5.42	0.78	13.26	1.70	75.73	2.00	0.32	0.08	0.00
5.44	0.76	12.92	1.76	76.67	2.00	0.00	0.08	0.00
5.46	0.76	12.85	1.74	76.22	2.00	0.00	0.08	0.00
5.48	0.75	12.71	1.74	76.12	2.00	0.00	0.08	0.00
5.50	0.75	12.53	1.74	75.80	2.00	0.00	0.08	0.00
5.52	0.73	12.23	1.72	75.21	2.00	0.00	0.08	0.00
5.54	0.71	11.88	1.66	73.54	2.00	0.00	0.08	0.00
5.56	0.70	11.58	1.59	71.72	2.00	0.00	0.08	0.00
5.58	0.69	11.41	1.51	69.77	2.00	0.00	0.09	0.00
5.60	0.69	11.33	1.45	68.50	2.00	0.00	0.09	0.00
5.62	0.69	11.21	1.45	68.45	2.00	0.00	0.09	0.00
5.64	0.68	11.12	1.48	68.89	2.00	0.00	0.09	0.00
5.66	0.68	11.09	1.49	69.23	2.00	0.00	0.09	0.00
5.68	0.68	11.14	1.50	69.40	2.00	0.00	0.09	0.00
5.70	0.69	11.18	1.50	69.47	2.00	0.00	0.09	0.00
5.72	0.69	11.11	1.53	70.10	2.00	0.00	0.09	0.00
5.74	0.68	11.03	1.57	70.75	2.00	0.00	0.09	0.00
5.76	0.68	10.98	1.59	71.31	2.00	0.00	0.09	0.00
5.78	0.69	11.05	1.59	71.20	2.00	0.00	0.09	0.00
5.80	0.70	11.20	1.56	70.83	2.00	0.00	0.09	0.00
5.82	0.71	11.34	1.54	70.45	2.00	0.00	0.09	0.00
5.84	0.71	11.44	1.52	70.19	2.00	0.00	0.08	0.00
5.86	0.71	11.36	1.52	70.17	2.00	0.00	0.09	0.00
5.88	0.70	11.18	1.53	70.12	2.00	0.00	0.09	0.00
5.90	0.69	10.99	1.54	70.24	2.00	0.00	0.09	0.00
5.92	0.69	10.87	1.55	70.19	2.00	0.00	0.09	0.00
5.94	0.68	10.75	1.55	70.14	2.00	0.00	0.09	0.00
5.96	0.68	10.63	1.55	70.08	2.00	0.00	0.09	0.00
5.98	0.67	10.53	1.55	70.01	2.00	0.00	0.09	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.00	0.67	10.50	1.54	69.78	2.00	0.00	0.09	0.00
6.02	0.67	10.52	1.53	69.54	2.00	0.00	0.09	0.00
6.04	0.68	10.61	1.50	68.98	2.00	0.00	0.09	0.00
6.06	0.69	10.67	1.48	68.67	2.00	0.00	0.09	0.00
6.08	0.69	10.73	1.46	68.27	2.00	0.00	0.09	0.00
6.10	0.69	10.71	1.47	68.35	2.00	0.00	0.09	0.00
6.12	0.69	10.67	1.46	68.25	2.00	0.00	0.09	0.00
6.14	0.69	10.55	1.46	68.19	2.00	0.00	0.09	0.00
6.16	0.68	10.43	1.47	68.14	2.00	0.00	0.09	0.00
6.18	0.68	10.35	1.49	68.46	2.00	0.00	0.09	0.00
6.20	0.67	10.32	1.50	68.67	2.00	0.00	0.09	0.00
6.22	0.68	10.32	1.50	68.84	2.00	0.00	0.09	0.00
6.24	0.67	10.27	1.51	68.86	2.00	0.00	0.09	0.00
6.26	0.68	10.34	1.51	68.99	2.00	0.00	0.09	0.00
6.28	0.70	10.63	1.47	68.34	2.00	0.00	0.09	0.00
6.30	0.74	11.21	1.37	66.71	2.00	0.00	0.09	0.00
6.32	0.78	11.75	1.29	65.15	2.00	0.00	0.08	0.00
6.34	0.80	12.15	1.25	64.53	2.00	0.00	0.08	0.00
6.36	0.82	12.37	1.27	65.11	2.00	0.00	0.08	0.00
6.38	0.84	12.67	1.31	66.43	2.00	0.00	0.08	0.00
6.40	0.85	12.88	1.35	67.49	2.00	0.00	0.08	0.00
6.42	0.86	13.03	1.43	69.37	2.00	0.00	0.08	0.00
6.44	0.87	13.07	1.48	70.58	2.00	0.00	0.08	0.00
6.46	0.87	13.13	1.51	71.53	2.00	0.00	0.08	0.00
6.48	0.87	13.16	1.51	71.40	2.00	0.05	0.08	0.00
6.50	0.93	13.97	1.38	68.90	2.00	2.04	0.08	0.00
6.52	1.01	15.08	1.24	124.45	2.00	4.57	0.00	0.00
6.54	1.10	16.39	1.15	98.45	2.00	7.30	0.00	0.00
6.56	1.18	17.40	0.97	70.64	2.00	9.29	0.00	0.00
6.58	1.25	18.48	0.99	65.42	2.00	11.27	0.00	0.00
6.60	1.31	19.36	1.03	64.35	1.20	12.81	0.00	0.00
6.62	1.32	19.65	1.26	84.77	1.57	13.29	0.00	0.00
6.64	1.32	19.62	1.38	98.01	1.92	13.24	0.00	0.00
6.66	1.32	19.66	1.46	106.06	2.00	13.31	0.00	0.00
6.68	1.32	19.68	1.52	112.52	2.00	13.35	0.00	0.00
6.70	1.31	19.54	1.60	123.50	2.00	13.11	0.00	0.00
6.72	1.29	19.25	1.72	140.85	2.00	12.62	0.00	0.00
6.74	1.28	19.04	1.80	154.04	2.00	12.26	0.00	0.00
6.76	1.27	18.92	1.80	155.47	2.00	12.05	0.00	0.00
6.78	1.28	18.92	1.72	145.39	2.00	12.05	0.00	0.00
6.80	1.30	19.17	1.69	138.53	2.00	12.49	0.00	0.00
6.82	1.35	19.87	1.62	122.82	2.00	13.67	0.00	0.00
6.84	1.38	20.22	1.60	117.42	2.00	14.25	0.00	0.00
6.86	1.45	21.18	1.48	97.10	2.00	15.78	0.00	0.00
6.88	1.66	24.08	1.29	70.47	2.00	20.01	0.00	0.00
6.90	2.08	29.75	1.10	66.94	2.00	26.99	0.00	0.00
6.92	2.35	33.51	1.09	68.20	2.00	30.92	0.00	0.00
6.94	2.37	33.86	1.20	71.85	2.00	31.26	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.96	2.09	30.15	1.46	77.97	2.00	27.43	0.00	0.00
6.98	1.86	26.96	1.69	85.18	2.00	23.73	0.00	0.00
7.00	1.68	24.53	1.94	122.89	2.00	20.62	0.00	0.00
7.02	1.59	23.21	2.18	160.29	2.00	18.79	0.00	0.00
7.04	1.49	21.93	2.43	207.30	2.00	16.93	0.00	0.00
7.06	1.41	20.68	2.64	104.46	2.00	14.98	0.06	0.00
7.08	1.34	19.61	2.71	105.00	2.00	13.22	0.06	0.00
7.10	1.28	18.74	2.72	104.26	2.00	11.74	0.06	0.00
7.12	1.25	18.14	2.63	101.58	2.00	10.65	0.06	0.00
7.14	1.22	17.61	2.47	97.51	2.00	9.67	0.07	0.00
7.16	1.21	17.30	2.22	91.54	2.00	9.09	0.07	0.00
7.18	1.19	16.90	2.04	87.05	2.00	8.32	0.07	0.00
7.20	1.18	16.68	1.92	84.04	2.00	7.90	0.07	0.00
7.22	1.16	16.40	1.88	82.81	2.00	7.32	0.07	0.00
7.24	1.16	16.39	1.86	82.23	2.00	7.30	0.07	0.00
7.26	1.18	16.57	1.82	81.50	2.00	7.66	0.07	0.00
7.28	1.21	16.96	1.76	80.30	2.00	8.44	0.07	0.00
7.30	1.23	17.23	1.70	163.53	2.00	8.95	0.00	0.00
7.32	1.25	17.46	1.72	163.00	2.00	9.40	0.00	0.00
7.34	1.25	17.46	1.77	170.20	2.00	9.39	0.00	0.00
7.36	1.25	17.39	1.85	82.80	2.00	9.26	0.07	0.00
7.38	1.22	17.02	1.91	84.11	2.00	8.55	0.07	0.00
7.40	1.19	16.48	2.00	85.76	2.00	7.50	0.07	0.00
7.42	1.14	15.84	2.05	86.34	2.00	6.18	0.07	0.00
7.44	1.12	15.43	2.06	86.24	2.00	5.31	0.07	0.00
7.46	1.11	15.33	1.99	84.51	2.00	5.11	0.07	0.00
7.48	1.13	15.49	1.92	83.04	2.00	5.45	0.07	0.00
7.50	1.15	15.68	1.86	81.86	2.00	5.85	0.07	0.00
7.52	1.15	15.71	1.85	81.51	2.00	5.91	0.07	0.00
7.54	1.15	15.68	1.83	81.12	2.00	5.84	0.07	0.00
7.56	1.15	15.58	1.81	80.66	2.00	5.63	0.07	0.00
7.58	1.15	15.57	1.80	80.38	2.00	5.60	0.07	0.00
7.60	1.13	15.33	1.78	79.61	2.00	5.10	0.07	0.00
7.62	1.11	14.98	1.76	78.89	2.00	4.35	0.07	0.00
7.64	1.10	14.75	1.72	77.87	2.00	3.82	0.07	0.00
7.66	1.11	14.89	1.66	76.54	2.00	4.15	0.07	0.00
7.68	1.15	15.34	1.58	74.80	2.00	5.11	0.07	0.00
7.70	1.18	15.78	1.51	154.61	2.00	6.05	0.00	0.00
7.72	1.20	15.90	1.46	146.63	2.00	6.30	0.00	0.00
7.74	1.18	15.66	1.47	151.26	2.00	5.81	0.00	0.00
7.76	1.16	15.33	1.51	73.17	2.00	5.11	0.07	0.00
7.78	1.17	15.47	1.50	73.06	2.00	5.41	0.07	0.00
7.80	1.21	15.98	1.45	143.95	2.00	6.48	0.00	0.00
7.82	1.26	16.59	1.41	130.77	2.00	7.70	0.00	0.00
7.84	1.28	16.90	1.46	133.92	2.00	8.31	0.00	0.00
7.86	1.27	16.80	1.58	152.44	2.00	8.13	0.00	0.00
7.88	1.22	16.16	1.82	81.25	2.00	6.84	0.07	0.00
7.90	1.17	15.40	1.99	84.67	2.00	5.25	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
7.92	1.12	14.66	2.11	86.52	2.00	3.63	0.07	0.00
7.94	1.08	14.05	2.03	84.30	2.00	2.22	0.08	0.00
7.96	1.04	13.49	2.00	83.07	2.00	0.89	0.08	0.00
7.98	1.01	13.04	1.96	81.67	2.00	0.00	0.08	0.00
8.00	1.00	12.92	1.91	80.43	2.00	0.00	0.08	0.00
8.02	1.00	12.77	1.84	78.79	2.00	0.00	0.08	0.00
8.04	0.99	12.68	1.73	76.41	2.00	0.00	0.08	0.00
8.06	0.96	12.22	1.73	75.82	2.00	0.00	0.08	0.00
8.08	0.91	11.51	1.77	76.10	2.00	0.00	0.08	0.00
8.10	0.87	10.87	1.88	77.50	2.00	0.00	0.09	0.00
8.12	0.86	10.77	1.91	78.08	2.00	0.00	0.09	0.00
8.14	0.90	11.23	1.82	76.75	2.00	0.00	0.09	0.00
8.16	0.94	11.78	1.71	75.15	2.00	0.00	0.08	0.00
8.18	0.98	12.26	1.63	73.86	2.00	0.00	0.08	0.00
8.20	1.00	12.51	1.65	74.56	2.00	0.00	0.08	0.00
8.22	1.00	12.51	1.72	75.95	2.00	0.00	0.08	0.00
8.24	0.99	12.38	1.78	77.18	2.00	0.00	0.08	0.00
8.26	0.99	12.30	1.76	76.73	2.00	0.00	0.08	0.00
8.28	0.98	12.25	1.71	75.63	2.00	0.00	0.08	0.00
8.30	0.97	12.07	1.67	74.59	2.00	0.00	0.08	0.00
8.32	0.96	11.89	1.66	74.01	2.00	0.00	0.08	0.00
8.34	0.97	11.98	1.56	72.06	2.00	0.00	0.08	0.00
8.36	1.00	12.28	1.42	68.96	2.00	0.00	0.08	0.00
8.38	1.02	12.55	1.31	66.45	2.00	0.00	0.08	0.00
8.40	1.05	12.86	1.20	63.87	2.00	0.00	0.08	0.00
8.42	1.08	13.25	1.14	62.56	2.00	0.28	0.08	0.00
8.44	1.13	13.80	1.09	120.23	2.00	1.63	0.00	0.00
8.46	1.14	13.97	1.11	121.57	2.00	2.04	0.00	0.00
8.48	1.12	13.64	1.14	129.71	2.00	1.25	0.00	0.00
8.50	1.07	12.98	1.18	63.56	2.00	0.00	0.08	0.00
8.52	1.03	12.39	1.23	64.46	2.00	0.00	0.08	0.00
8.54	1.02	12.34	1.24	64.75	2.00	0.00	0.08	0.00
8.56	1.08	13.08	1.18	63.66	2.00	0.00	0.08	0.00
8.58	1.18	14.34	1.06	109.42	2.00	2.90	0.00	0.00
8.60	1.27	15.39	0.97	87.41	2.00	5.23	0.00	0.00
8.62	1.32	16.00	0.92	76.09	2.00	6.52	0.00	0.00
8.64	1.38	16.77	0.90	68.41	2.00	8.06	0.00	0.00
8.66	1.47	17.78	0.89	60.94	2.00	10.00	0.00	0.00
8.68	1.52	18.50	0.93	60.59	1.13	11.31	0.00	0.00
8.70	1.51	18.39	1.03	71.11	1.27	11.11	0.00	0.00
8.72	1.46	17.82	1.17	89.93	1.65	10.06	0.00	0.00
8.74	1.44	17.54	1.22	97.34	1.67	9.54	0.00	0.00
8.76	1.50	18.13	1.14	84.23	1.52	10.64	0.00	0.00
8.78	1.56	18.85	1.04	68.71	1.23	11.92	0.00	0.00
8.80	1.57	18.91	1.02	67.12	1.21	12.02	0.00	0.00
8.82	1.49	17.93	1.13	84.98	1.53	10.27	0.00	0.00
8.84	1.39	16.67	1.22	105.95	1.92	7.88	0.00	0.00
8.86	1.33	15.95	1.20	110.14	2.00	6.40	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.88	1.34	15.95	1.01	86.72	2.00	6.40	0.00	0.00
8.90	1.39	16.45	0.85	65.77	2.00	7.43	0.00	0.00
8.92	1.43	16.86	0.79	56.57	2.00	8.24	0.00	0.00
8.94	1.44	16.98	0.79	55.96	2.00	8.48	0.00	0.00
8.96	1.41	16.60	0.88	67.38	2.00	7.73	0.00	0.00
8.98	1.37	16.11	0.97	80.70	2.00	6.74	0.00	0.00
9.00	1.33	15.64	1.03	91.48	2.00	5.77	0.00	0.00
9.02	1.26	14.74	1.02	100.24	2.00	3.82	0.00	0.00
9.04	1.19	13.81	1.01	109.21	2.00	1.65	0.00	0.00
9.06	1.11	12.74	1.02	125.75	2.00	0.00	0.00	0.00
9.08	1.09	12.53	1.00	124.95	2.00	0.00	0.00	0.00
9.10	1.12	12.79	0.96	115.23	2.00	0.00	0.00	0.00
9.12	1.19	13.69	0.89	93.71	1.57	1.36	0.00	0.00
9.14	1.26	14.50	0.84	79.67	1.28	3.27	0.00	0.00
9.16	1.29	14.90	0.82	73.92	1.31	4.15	0.00	0.00
9.18	1.27	14.65	0.85	79.32	1.27	3.60	0.00	0.00
9.20	1.26	14.42	0.87	84.25	1.36	3.08	0.00	0.00
9.22	1.29	14.84	0.86	78.69	2.00	4.03	0.00	0.00
9.24	1.36	15.60	0.85	71.00	2.00	5.67	0.00	0.00
9.26	1.43	16.44	0.81	61.22	2.00	7.41	0.00	0.00
9.28	1.49	17.21	0.77	53.28	2.00	8.93	0.00	0.00
9.30	1.58	18.25	0.76	52.82	2.00	10.86	0.00	0.00
9.32	1.65	19.04	0.80	54.42	2.00	12.26	0.00	0.00
9.34	1.62	18.73	0.91	57.70	2.00	11.71	0.00	0.00
9.36	1.54	17.74	0.98	70.73	2.00	9.91	0.00	0.00
9.38	1.46	16.80	1.02	81.10	2.00	8.12	0.00	0.00
9.40	1.44	16.48	0.98	79.60	1.41	7.50	0.00	0.00
9.42	1.42	16.20	0.96	79.77	1.42	6.92	0.00	0.00
9.44	1.36	15.42	0.98	88.11	1.44	5.30	0.00	0.00
9.46	1.29	14.56	1.05	106.20	1.92	3.40	0.00	0.00
9.48	1.23	13.85	1.12	124.40	2.00	1.76	0.00	0.00
9.50	1.21	13.57	1.14	131.80	2.00	1.09	0.00	0.00
9.52	1.21	13.56	1.08	123.25	2.00	1.05	0.00	0.00
9.54	1.22	13.66	1.04	116.08	2.00	1.28	0.00	0.00
9.56	1.20	13.36	1.08	125.82	2.00	0.55	0.00	0.00
9.58	1.14	12.60	1.19	63.65	2.00	0.00	0.08	0.00
9.60	1.05	11.58	1.31	65.95	2.00	0.00	0.08	0.00
9.62	1.01	10.96	1.30	65.27	2.00	0.00	0.09	0.00
9.64	0.99	10.73	1.23	63.61	2.00	0.00	0.09	0.00
9.66	1.00	10.81	1.11	60.64	2.00	0.00	0.09	0.00
9.68	1.08	11.80	0.96	57.22	2.00	0.00	0.08	0.00
9.70	1.17	12.81	0.86	99.87	1.73	0.00	0.00	0.00
9.72	1.25	13.70	0.87	91.49	1.52	1.40	0.00	0.00
9.74	1.24	13.67	0.96	103.99	1.85	1.33	0.00	0.00
9.76	1.26	13.86	1.00	107.92	1.98	1.77	0.00	0.00
9.78	1.29	14.18	0.95	96.70	1.65	2.53	0.00	0.00
9.80	1.30	14.26	0.93	93.59	1.57	2.71	0.00	0.00
9.82	1.24	13.56	1.03	115.24	2.00	1.05	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
9.84	1.14	12.34	1.22	64.32	2.00	0.00	0.08	0.00
9.86	1.05	11.25	1.34	66.67	2.00	0.00	0.09	0.00
9.88	0.97	10.28	1.40	67.00	2.00	0.00	0.09	0.00
9.90	0.93	9.71	1.37	65.89	2.00	0.00	0.09	0.00
9.92	1.02	10.86	1.20	62.87	2.00	0.00	0.09	0.00
9.94	1.23	13.24	0.93	105.07	2.00	0.27	0.00	0.00
9.96	1.52	16.72	0.83	62.16	2.00	7.97	0.00	0.00
9.98	1.72	19.08	0.99	63.24	1.15	12.33	0.00	0.00
10.00	1.97	22.09	1.23	69.32	2.00	17.16	0.00	0.00
10.02	2.11	23.83	1.57	91.31	2.00	19.67	0.00	0.00
10.04	2.21	25.04	2.01	128.30	2.00	21.30	0.00	0.00
10.06	2.14	24.41	2.85	240.52	2.00	20.46	0.00	0.00
10.08	2.09	23.96	3.81	135.18	2.00	19.84	0.05	0.00
10.10	2.08	23.85	4.76	154.96	2.00	19.69	0.05	0.00
10.12	1.92	22.04	5.71	168.81	2.00	17.09	0.06	0.00
10.14	1.79	20.36	6.31	174.56	2.00	14.47	0.06	0.00
10.16	1.94	22.13	5.65	168.12	2.00	17.22	0.05	0.00
10.18	2.82	32.24	3.53	253.02	2.00	29.64	0.00	0.00
10.20	4.37	49.73	2.12	109.29	2.00	43.94	0.00	0.00
10.22	7.16	80.76	1.47	114.16	2.00	59.95	0.00	0.00
10.24	10.25	114.90	1.36	146.63	2.00	71.58	0.00	0.00
10.26	12.73	142.46	1.48	177.88	2.00	78.68	0.00	0.00
10.28	14.25	159.30	1.57	197.56	2.00	82.37	0.00	0.00
10.30	15.20	169.73	1.68	210.80	2.00	84.46	0.00	0.00
10.32	16.24	180.96	1.70	223.16	2.00	86.58	0.00	0.00
10.34	17.06	189.82	1.74	233.22	2.00	88.15	0.00	0.00
10.36	17.79	197.48	1.73	240.88	2.00	89.46	0.00	0.00
10.38	18.61	206.38	1.80	251.94	2.00	90.91	0.00	0.00
10.40	20.09	222.53	1.86	270.39	2.00	93.40	0.00	0.00
10.42	21.19	234.64	2.04	288.01	2.00	95.15	0.00	0.00
10.44	23.27	257.18	2.09	313.09	2.00	98.18	0.00	0.00
10.46	24.33	268.66	2.17	327.53	2.00	99.62	0.00	0.00
10.48	26.91	295.98	2.09	352.18	2.00	100.00	0.00	0.00
10.50	28.21	309.43	2.04	362.66	2.00	100.00	0.00	0.00

Total estimated displacement: 0.22

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
0.90	0.19	3.43	22.59	77.38	3.53	0.72	0.92
0.92	0.19	3.42	25.32	86.46	3.60	0.70	0.90
0.94	0.30	5.69	16.45	93.67	3.35	1.33	1.46
0.96	0.55	10.64	9.14	97.22	3.02	1.31	2.67
0.98	0.89	17.23	5.14	88.55	2.74	0.73	0.73
1.00	1.09	21.15	4.02	85.03	2.63	0.81	0.81
1.02	1.12	21.83	3.96	86.45	2.62	0.81	0.81
1.04	1.04	20.21	4.60	92.92	2.69	0.88	0.88
1.06	0.98	18.93	5.27	99.79	2.75	0.75	0.75
1.08	1.02	19.82	5.14	101.88	2.74	0.75	0.75
1.10	1.08	21.03	4.88	102.70	2.72	0.75	0.75
1.12	1.13	22.04	4.56	100.53	2.69	0.89	0.89
1.14	1.08	20.91	4.75	99.39	2.70	0.75	0.75
1.16	1.03	20.00	4.93	98.53	2.72	0.75	0.75
1.18	1.08	21.02	4.63	97.33	2.69	0.89	0.89
1.20	1.19	23.18	4.15	96.23	2.64	0.85	0.85
1.22	1.30	25.24	3.87	97.59	2.61	0.82	0.82
1.24	1.32	25.66	4.00	102.57	2.63	0.85	0.85
1.26	1.29	25.17	4.34	109.26	2.66	0.89	0.89
1.28	1.24	24.17	4.70	113.57	2.70	0.93	0.93
1.30	1.20	23.28	4.98	116.01	2.73	0.78	0.78
1.32	1.18	22.97	5.27	120.97	2.75	0.78	0.78
1.34	1.24	24.09	5.10	122.85	2.74	0.79	0.79
1.36	1.35	26.30	4.62	121.46	2.69	0.94	0.94
1.38	1.76	34.24	3.17	108.58	2.53	0.77	0.77
1.40	2.45	47.85	2.01	95.97	2.32	0.74	0.74
1.42	3.35	65.59	1.50	98.55	2.15	0.75	0.75
1.44	4.15	81.47	1.35	109.71	2.04	0.77	0.77
1.46	4.63	90.87	1.31	118.60	2.00	0.78	0.78
1.48	4.75	93.30	1.30	121.16	1.99	0.78	0.78
1.50	4.84	95.03	1.30	123.84	2.00	0.79	0.79
1.52	5.19	101.91	1.28	130.85	1.97	0.80	0.80
1.54	5.63	110.72	1.25	138.66	1.92	0.81	0.81
1.56	5.77	113.39	1.23	139.47	1.89	0.81	0.81
1.58	5.11	100.35	1.26	126.35	1.93	0.79	0.79
1.60	4.14	81.27	1.35	109.53	2.04	0.77	0.77
1.62	3.14	61.46	1.65	101.33	2.21	0.75	0.75
1.64	2.57	50.17	2.13	107.03	2.35	0.76	0.76
1.66	2.22	43.23	2.67	115.42	2.45	0.78	0.78
1.68	2.74	53.60	1.94	103.76	2.30	0.76	0.76
1.70	4.01	78.67	1.33	104.88	2.03	0.76	0.76
1.72	5.29	103.95	1.18	122.75	1.83	0.79	0.79
1.74	6.09	119.64	1.10	131.95	1.76	0.80	0.80
1.76	6.55	128.82	1.13	145.52	1.78	0.82	0.82
1.78	7.26	142.70	1.12	159.72	1.77	0.84	0.84
1.80	7.81	153.52	1.11	169.97	1.76	0.85	0.85
1.82	8.16	160.58	1.09	174.59	1.75	0.86	0.86
1.84	8.42	165.60	1.05	174.36	1.73	0.86	0.86

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
1.86	8.70	171.09	1.00	171.09	1.69	0.85	0.85
1.88	8.87	174.49	1.00	174.49	1.63	0.86	0.86
1.90	8.92	171.29	1.00	171.29	1.59	0.85	0.85
1.92	8.78	165.73	1.00	165.73	1.56	0.85	0.85
1.94	8.56	161.53	1.00	161.53	1.56	0.84	0.84
1.96	8.36	158.13	1.00	158.13	1.57	0.84	0.84
1.98	8.17	154.79	1.00	154.79	1.58	0.83	0.83
2.00	7.82	149.44	1.00	149.44	1.61	0.83	0.83
2.02	7.15	139.03	1.00	139.03	1.65	0.81	0.81
2.04	6.30	123.67	1.03	127.58	1.72	0.79	0.79
2.06	5.53	108.51	1.15	124.97	1.80	0.79	0.79
2.08	5.19	101.68	1.19	120.77	1.83	0.78	0.78
2.10	5.22	102.31	1.19	121.50	1.83	0.79	0.79
2.12	5.72	112.29	1.11	124.08	1.76	0.79	0.79
2.14	6.27	122.36	1.00	122.36	1.69	0.79	0.79
2.16	6.80	128.48	1.00	128.48	1.63	0.80	0.80
2.18	6.95	129.84	1.00	129.84	1.61	0.80	0.80
2.20	6.99	130.11	1.00	130.11	1.61	0.80	0.80
2.22	6.70	125.74	1.00	125.74	1.63	0.79	0.79
2.24	6.17	119.29	1.00	119.29	1.70	0.78	0.78
2.26	5.42	106.21	1.13	119.93	1.78	0.78	0.78
2.28	4.76	93.30	1.22	113.84	1.88	0.77	0.77
2.30	4.11	80.45	1.30	104.85	2.00	0.76	0.76
2.32	3.50	68.31	1.54	105.09	2.17	0.76	0.76
2.34	3.04	59.16	1.99	117.82	2.32	0.78	0.78
2.36	3.58	69.96	1.71	119.49	2.23	0.78	0.78
2.38	5.22	102.30	1.30	132.96	1.99	0.80	0.80
2.40	7.10	138.41	1.11	153.85	1.77	0.83	0.83
2.42	7.99	148.82	1.00	148.82	1.68	0.83	0.83
2.44	7.39	138.84	1.00	138.84	1.70	0.81	0.81
2.46	6.14	120.43	1.17	140.78	1.82	0.81	0.81
2.48	4.82	94.33	1.30	122.41	1.99	0.79	0.79
2.50	3.75	73.13	1.58	115.62	2.19	0.78	0.78
2.52	2.99	58.12	2.10	122.34	2.34	0.79	0.79
2.54	2.50	48.51	2.78	134.71	2.47	0.81	0.81
2.56	2.26	43.80	3.18	139.48	2.53	0.83	0.83
2.58	2.04	39.44	3.60	142.12	2.58	0.88	0.88
2.60	1.92	37.06	3.60	133.46	2.58	0.86	0.86
2.62	1.97	37.99	3.07	116.75	2.51	0.78	0.78
2.64	2.21	42.83	2.26	96.98	2.38	0.74	0.74
2.66	2.55	49.39	1.83	90.41	2.27	0.73	0.73
2.68	2.96	57.45	1.56	89.82	2.18	0.73	0.73
2.70	3.36	65.36	1.44	94.29	2.12	0.74	0.74
2.72	3.70	72.06	1.38	99.57	2.07	0.75	0.75
2.74	3.95	77.04	1.35	104.37	2.05	0.76	0.76
2.76	4.15	80.92	1.34	108.14	2.03	0.76	0.76
2.78	4.33	84.46	1.31	110.92	2.01	0.77	0.77
2.80	4.50	87.82	1.27	111.73	1.95	0.77	0.77

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
2.82	4.67	90.13	1.23	111.03	1.89	0.77	0.77
2.84	4.85	90.75	1.18	106.64	1.82	0.76	0.76
2.86	4.91	89.83	1.13	101.67	1.78	0.75	0.75
2.88	4.78	86.90	1.00	86.90	1.77	0.72	0.72
2.90	3.99	75.79	1.22	92.74	1.88	0.73	0.73
2.92	3.56	69.29	1.28	88.57	1.96	0.73	0.73
2.94	3.22	62.49	1.36	85.20	2.06	0.72	0.72
2.96	3.67	71.48	1.30	92.69	1.99	0.73	0.73
2.98	4.59	85.74	1.21	103.89	1.86	0.76	0.76
3.00	5.61	98.83	1.00	98.83	1.73	0.75	0.75
3.02	6.39	108.19	1.00	108.19	1.64	0.76	0.76
3.04	6.28	105.89	1.00	105.89	1.64	0.76	0.76
3.06	5.93	100.64	1.00	100.64	1.66	0.75	0.75
3.08	5.35	92.28	1.00	92.28	1.71	0.73	0.73
3.10	5.00	87.75	1.00	87.75	1.75	0.72	0.72
3.12	4.90	87.30	1.15	99.96	1.79	0.75	0.75
3.14	5.05	90.87	1.18	107.07	1.82	0.76	0.76
3.16	5.08	92.53	1.21	111.69	1.86	0.77	0.77
3.18	4.96	91.75	1.24	113.59	1.90	0.77	0.77
3.20	4.74	88.84	1.26	112.38	1.94	0.77	0.77
3.22	4.34	83.27	1.31	109.50	2.01	0.77	0.77
3.24	3.98	77.40	1.39	107.38	2.08	0.76	0.76
3.26	3.76	73.09	1.48	107.93	2.14	0.76	0.76
3.28	3.62	70.39	1.57	110.67	2.18	0.77	0.77
3.30	3.35	64.95	1.69	109.46	2.23	0.77	0.77
3.32	2.93	56.74	1.92	108.92	2.30	0.76	0.76
3.34	2.62	50.69	2.23	113.24	2.37	0.77	0.77
3.36	2.93	56.66	2.04	115.60	2.33	0.78	0.78
3.38	4.02	78.28	1.48	115.84	2.14	0.78	0.78
3.40	5.72	103.31	1.25	128.86	1.92	0.80	0.80
3.42	6.93	118.43	1.12	133.16	1.78	0.80	0.80
3.44	7.27	121.54	1.04	126.42	1.73	0.79	0.79
3.46	6.78	113.83	1.08	122.59	1.75	0.79	0.79
3.48	6.25	105.75	1.12	118.45	1.77	0.78	0.78
3.50	5.86	99.61	1.14	113.99	1.79	0.77	0.77
3.52	5.38	91.87	1.17	107.33	1.81	0.76	0.76
3.54	4.76	82.34	1.21	99.44	1.86	0.75	0.75
3.56	3.90	69.23	1.26	87.35	1.94	0.72	0.72
3.58	3.17	58.02	1.34	77.52	2.03	0.48	0.70
3.60	2.57	48.92	1.52	74.18	2.16	0.36	0.69
3.62	2.32	44.64	1.70	76.10	2.23	0.42	0.70
3.64	2.43	46.74	1.66	77.76	2.22	0.48	0.70
3.66	2.62	49.41	1.52	74.91	2.16	0.38	0.70
3.68	2.61	48.62	1.47	71.44	2.13	0.29	0.69
3.70	2.31	43.60	1.57	68.50	2.18	0.23	0.68
3.72	1.95	37.26	1.86	69.30	2.28	0.24	0.68
3.74	1.75	33.24	2.20	73.17	2.37	0.33	0.69
3.76	1.73	32.88	2.23	73.24	2.37	0.33	0.69

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
3.78	1.77	33.70	2.25	75.91	2.38	0.42	0.70
3.80	1.76	33.41	2.23	74.67	2.37	0.37	0.69
3.82	1.59	30.04	2.61	78.43	2.44	0.51	0.70
3.84	1.29	24.23	3.42	82.97	2.56	0.75	0.75
3.86	1.03	19.00	4.91	93.31	2.72	0.74	0.74
3.88	0.88	16.14	5.99	96.67	2.81	0.74	0.74
3.90	0.91	16.74	5.57	93.32	2.78	0.74	0.74
3.92	0.99	18.16	4.79	87.01	2.71	0.72	0.72
3.94	1.45	27.33	2.70	73.79	2.46	0.35	0.69
3.96	1.91	35.89	1.85	66.52	2.28	0.19	0.67
3.98	2.22	40.66	1.61	65.30	2.20	0.17	0.67
4.00	2.12	39.03	1.65	64.57	2.22	0.16	0.67
4.02	2.02	37.29	1.72	64.27	2.24	0.16	0.67
4.04	2.15	39.95	1.80	71.77	2.26	0.29	0.69
4.06	2.25	42.39	1.96	82.92	2.31	0.71	0.71
4.08	2.28	43.60	2.16	94.06	2.36	0.74	0.74
4.10	2.14	40.86	2.46	100.65	2.42	0.75	0.75
4.12	1.84	34.87	3.24	113.04	2.54	0.79	0.79
4.14	1.90	36.14	3.04	110.04	2.51	0.76	0.76
4.16	1.82	34.45	3.27	112.78	2.54	0.79	0.79
4.18	1.81	34.40	3.27	112.58	2.54	0.79	0.79
4.20	1.44	27.08	4.98	134.76	2.73	0.81	0.81
4.22	1.22	22.76	6.46	147.10	2.85	0.82	0.82
4.24	1.09	20.05	7.44	149.09	2.92	0.83	0.83
4.26	1.01	18.44	7.80	143.90	2.94	0.82	0.82
4.28	0.97	17.71	7.89	139.82	2.95	0.81	0.81
4.30	0.95	17.31	7.67	132.73	2.93	0.80	0.80
4.32	0.95	17.25	7.17	123.75	2.90	0.79	0.79
4.34	0.95	17.33	6.48	112.38	2.85	0.77	0.77
4.36	0.97	17.65	5.93	104.72	2.81	0.76	0.76
4.38	0.98	17.90	5.54	99.25	2.77	0.75	0.75
4.40	0.99	18.08	5.35	96.80	2.76	0.74	0.74
4.42	0.99	18.09	5.30	95.89	2.75	0.74	0.74
4.44	0.98	17.94	5.30	95.11	2.75	0.74	0.74
4.46	0.98	17.90	5.29	94.72	2.75	0.74	0.74
4.48	0.99	18.07	5.22	94.35	2.75	0.74	0.74
4.50	1.00	18.22	5.23	95.37	2.75	0.74	0.74
4.52	0.99	17.95	5.33	95.68	2.76	0.74	0.74
4.54	0.94	17.10	5.61	95.94	2.78	0.74	0.74
4.56	0.89	16.00	5.97	95.52	2.81	0.74	0.74
4.58	0.83	14.78	6.45	95.34	2.85	0.74	0.74
4.60	0.78	13.91	6.75	93.85	2.87	0.74	0.74
4.62	0.76	13.43	6.80	91.35	2.87	0.73	0.73
4.64	0.75	13.29	6.57	87.24	2.85	0.72	0.72
4.66	0.75	13.18	6.33	83.43	2.84	0.71	0.71
4.68	0.75	13.24	6.05	80.10	2.82	0.59	0.71
4.70	0.77	13.59	5.72	77.74	2.79	0.48	0.70
4.72	0.79	14.04	5.45	76.53	2.77	0.44	0.70

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
4.74	0.80	14.19	5.38	76.28	2.76	0.43	0.70
4.76	0.80	14.21	5.34	75.87	2.76	0.41	0.70
4.78	0.81	14.36	5.25	75.33	2.75	0.40	0.70
4.80	0.82	14.50	5.26	76.34	2.75	0.43	0.70
4.82	0.80	14.11	5.62	79.32	2.78	0.55	0.71
4.84	0.75	13.14	6.15	80.82	2.82	0.63	0.71
4.86	0.70	12.28	6.50	79.88	2.85	0.58	0.71
4.88	0.69	11.95	6.40	76.52	2.84	0.44	0.70
4.90	0.69	11.89	6.29	74.70	2.83	0.38	0.69
4.92	0.68	11.83	6.23	73.66	2.83	0.34	0.69
4.94	0.68	11.77	6.24	73.44	2.83	0.34	0.69
4.96	0.69	11.89	6.10	72.53	2.82	0.31	0.69
4.98	0.69	11.97	5.97	71.45	2.81	0.29	0.69
5.00	0.68	11.82	5.97	70.62	2.81	0.27	0.68
5.02	0.67	11.63	6.05	70.39	2.82	0.26	0.68
5.04	0.67	11.50	6.11	70.27	2.82	0.26	0.68
5.06	0.67	11.50	6.05	69.61	2.82	0.25	0.68
5.08	0.67	11.48	6.02	69.09	2.81	0.24	0.68
5.10	0.66	11.42	6.02	68.75	2.81	0.23	0.68
5.12	0.67	11.47	5.96	68.33	2.81	0.22	0.68
5.14	0.67	11.60	5.84	67.69	2.80	0.21	0.68
5.16	0.68	11.78	5.68	66.84	2.79	0.20	0.68
5.18	0.69	11.93	5.58	66.57	2.78	0.19	0.67
5.20	0.70	12.04	5.53	66.64	2.77	0.19	0.67
5.22	0.70	12.06	5.55	66.88	2.77	0.20	0.68
5.24	0.70	11.93	5.61	66.95	2.78	0.20	0.68
5.26	0.69	11.79	5.70	67.18	2.79	0.20	0.68
5.28	0.69	11.71	5.77	67.51	2.79	0.21	0.68
5.30	0.69	11.67	5.80	67.74	2.80	0.21	0.68
5.32	0.70	11.89	5.67	67.45	2.79	0.21	0.68
5.34	0.74	12.36	5.03	62.20	2.73	0.13	0.66
5.36	0.77	12.80	4.44	56.91	2.67	0.77	0.77
5.38	0.80	13.32	4.46	59.45	2.68	0.78	0.78
5.40	0.79	13.30	5.10	67.84	2.74	0.21	0.68
5.42	0.78	13.26	5.71	75.73	2.79	0.41	0.70
5.44	0.76	12.92	5.93	76.67	2.81	0.44	0.70
5.46	0.76	12.85	5.93	76.22	2.81	0.43	0.70
5.48	0.75	12.71	5.99	76.12	2.81	0.42	0.70
5.50	0.75	12.53	6.05	75.80	2.82	0.41	0.70
5.52	0.73	12.23	6.15	75.21	2.82	0.39	0.70
5.54	0.71	11.88	6.19	73.54	2.83	0.34	0.69
5.56	0.70	11.58	6.19	71.72	2.83	0.29	0.69
5.58	0.69	11.41	6.12	69.77	2.82	0.25	0.68
5.60	0.69	11.33	6.05	68.50	2.82	0.23	0.68
5.62	0.69	11.21	6.11	68.45	2.82	0.22	0.68
5.64	0.68	11.12	6.19	68.89	2.83	0.23	0.68
5.66	0.68	11.09	6.24	69.23	2.83	0.24	0.68
5.68	0.68	11.14	6.23	69.40	2.83	0.24	0.68

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
5.70	0.69	11.18	6.22	69.47	2.83	0.24	0.68
5.72	0.69	11.11	6.31	70.10	2.84	0.26	0.68
5.74	0.68	11.03	6.42	70.75	2.84	0.27	0.69
5.76	0.68	10.98	6.49	71.31	2.85	0.28	0.69
5.78	0.69	11.05	6.44	71.20	2.85	0.28	0.69
5.80	0.70	11.20	6.32	70.83	2.84	0.27	0.69
5.82	0.71	11.34	6.21	70.45	2.83	0.26	0.68
5.84	0.71	11.44	6.14	70.19	2.82	0.26	0.68
5.86	0.71	11.36	6.18	70.17	2.83	0.26	0.68
5.88	0.70	11.18	6.27	70.12	2.83	0.26	0.68
5.90	0.69	10.99	6.39	70.24	2.84	0.26	0.68
5.92	0.69	10.87	6.46	70.19	2.85	0.26	0.68
5.94	0.68	10.75	6.52	70.14	2.85	0.26	0.68
5.96	0.68	10.63	6.59	70.08	2.86	0.26	0.68
5.98	0.67	10.53	6.65	70.01	2.86	0.25	0.68
6.00	0.67	10.50	6.65	69.78	2.86	0.25	0.68
6.02	0.67	10.52	6.61	69.54	2.86	0.25	0.68
6.04	0.68	10.61	6.50	68.98	2.85	0.23	0.68
6.06	0.69	10.67	6.44	68.67	2.85	0.23	0.68
6.08	0.69	10.73	6.36	68.27	2.84	0.22	0.68
6.10	0.69	10.71	6.39	68.35	2.84	0.22	0.68
6.12	0.69	10.67	6.40	68.25	2.84	0.22	0.68
6.14	0.69	10.55	6.46	68.19	2.85	0.22	0.68
6.16	0.68	10.43	6.53	68.14	2.85	0.22	0.68
6.18	0.68	10.35	6.61	68.46	2.86	0.22	0.68
6.20	0.67	10.32	6.65	68.67	2.86	0.23	0.68
6.22	0.68	10.32	6.67	68.84	2.86	0.23	0.68
6.24	0.67	10.27	6.70	68.86	2.86	0.23	0.68
6.26	0.68	10.34	6.67	68.99	2.86	0.23	0.68
6.28	0.70	10.63	6.43	68.34	2.84	0.22	0.68
6.30	0.74	11.21	5.95	66.71	2.81	0.19	0.67
6.32	0.78	11.75	5.54	65.15	2.77	0.17	0.67
6.34	0.80	12.15	5.31	64.53	2.75	0.16	0.67
6.36	0.82	12.37	5.26	65.11	2.75	0.17	0.67
6.38	0.84	12.67	5.24	66.43	2.75	0.19	0.67
6.40	0.85	12.88	5.24	67.49	2.75	0.21	0.68
6.42	0.86	13.03	5.32	69.37	2.76	0.24	0.68
6.44	0.87	13.07	5.40	70.58	2.76	0.27	0.68
6.46	0.87	13.13	5.45	71.53	2.77	0.29	0.69
6.48	0.87	13.16	5.43	71.40	2.76	0.29	0.69
6.50	0.93	13.97	4.93	68.90	2.72	0.23	0.68
6.52	1.01	15.08	4.36	65.83	2.67	0.79	0.79
6.54	1.10	16.39	3.90	63.84	2.62	0.75	0.75
6.56	1.18	17.40	3.39	58.98	2.56	0.27	0.68
6.58	1.25	18.48	3.23	59.69	2.54	0.18	0.67
6.60	1.31	19.36	3.16	61.18	2.53	0.16	0.67
6.62	1.32	19.65	3.46	68.04	2.57	0.72	0.72
6.64	1.32	19.62	3.65	71.56	2.59	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
6.66	1.32	19.66	3.75	73.70	2.60	0.76	0.76
6.68	1.32	19.68	3.83	75.33	2.61	0.77	0.77
6.70	1.31	19.54	3.97	77.51	2.62	0.79	0.79
6.72	1.29	19.25	4.18	80.47	2.65	0.81	0.81
6.74	1.28	19.04	4.33	82.53	2.66	0.83	0.83
6.76	1.27	18.92	4.36	82.45	2.67	0.83	0.83
6.78	1.28	18.92	4.25	80.50	2.66	0.82	0.82
6.80	1.30	19.17	4.16	79.80	2.65	0.81	0.81
6.82	1.35	19.87	3.94	78.20	2.62	0.79	0.79
6.84	1.38	20.22	3.85	77.83	2.61	0.78	0.78
6.86	1.45	21.18	3.54	74.95	2.57	0.74	0.74
6.88	1.66	24.08	2.93	70.47	2.49	0.26	0.68
6.90	2.08	29.75	2.25	66.94	2.38	0.20	0.68
6.92	2.35	33.51	2.03	68.20	2.33	0.22	0.68
6.94	2.37	33.86	2.12	71.85	2.35	0.30	0.69
6.96	2.09	30.15	2.59	77.97	2.44	0.49	0.70
6.98	1.86	26.96	3.10	83.69	2.52	0.72	0.72
7.00	1.68	24.53	3.65	89.57	2.59	0.79	0.79
7.02	1.59	23.21	4.09	95.04	2.64	0.84	0.84
7.04	1.49	21.93	4.58	100.51	2.69	0.89	0.89
7.06	1.41	20.68	5.05	104.46	2.73	0.76	0.76
7.08	1.34	19.61	5.36	105.00	2.76	0.76	0.76
7.10	1.28	18.74	5.56	104.26	2.78	0.76	0.76
7.12	1.25	18.14	5.60	101.58	2.78	0.75	0.75
7.14	1.22	17.61	5.54	97.51	2.77	0.74	0.74
7.16	1.21	17.30	5.29	91.54	2.75	0.73	0.73
7.18	1.19	16.90	5.15	87.05	2.74	0.72	0.72
7.20	1.18	16.68	5.04	84.04	2.73	0.72	0.72
7.22	1.16	16.40	5.05	82.81	2.73	0.71	0.71
7.24	1.16	16.39	5.02	82.23	2.73	0.70	0.71
7.26	1.18	16.57	4.92	81.50	2.72	0.66	0.71
7.28	1.21	16.96	4.73	80.30	2.70	0.60	0.71
7.30	1.23	17.23	4.59	79.06	2.69	0.84	0.84
7.32	1.25	17.46	4.56	79.66	2.69	0.84	0.84
7.34	1.25	17.46	4.63	80.90	2.69	0.85	0.85
7.36	1.25	17.39	4.76	82.80	2.71	0.71	0.71
7.38	1.22	17.02	4.94	84.11	2.72	0.72	0.72
7.40	1.19	16.48	5.20	85.76	2.75	0.72	0.72
7.42	1.14	15.84	5.45	86.34	2.77	0.72	0.72
7.44	1.12	15.43	5.59	86.24	2.78	0.72	0.72
7.46	1.11	15.33	5.51	84.51	2.77	0.72	0.72
7.48	1.13	15.49	5.36	83.04	2.76	0.71	0.71
7.50	1.15	15.68	5.22	81.86	2.75	0.68	0.71
7.52	1.15	15.71	5.19	81.51	2.74	0.66	0.71
7.54	1.15	15.68	5.17	81.12	2.74	0.64	0.71
7.56	1.15	15.58	5.18	80.66	2.74	0.62	0.71
7.58	1.15	15.57	5.16	80.38	2.74	0.60	0.71
7.60	1.13	15.33	5.19	79.61	2.74	0.57	0.71

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.62	1.11	14.98	5.26	78.89	2.75	0.53	0.70
7.64	1.10	14.75	5.28	77.87	2.75	0.49	0.70
7.66	1.11	14.89	5.14	76.54	2.74	0.44	0.70
7.68	1.15	15.34	4.88	74.80	2.72	0.38	0.70
7.70	1.18	15.78	4.64	73.24	2.69	0.83	0.83
7.72	1.20	15.90	4.54	72.21	2.68	0.82	0.82
7.74	1.18	15.66	4.62	72.34	2.69	0.83	0.83
7.76	1.16	15.33	4.77	73.17	2.71	0.33	0.69
7.78	1.17	15.47	4.72	73.06	2.70	0.33	0.69
7.80	1.21	15.98	4.50	71.99	2.68	0.82	0.82
7.82	1.26	16.59	4.29	71.22	2.66	0.80	0.80
7.84	1.28	16.90	4.30	72.69	2.66	0.80	0.80
7.86	1.27	16.80	4.52	75.87	2.68	0.83	0.83
7.88	1.22	16.16	5.03	81.25	2.73	0.65	0.71
7.90	1.17	15.40	5.50	84.67	2.77	0.72	0.72
7.92	1.12	14.66	5.90	86.52	2.80	0.72	0.72
7.94	1.08	14.05	6.00	84.30	2.81	0.72	0.72
7.96	1.04	13.49	6.16	83.07	2.82	0.71	0.71
7.98	1.01	13.04	6.27	81.67	2.83	0.67	0.71
8.00	1.00	12.92	6.22	80.43	2.83	0.61	0.71
8.02	1.00	12.77	6.17	78.79	2.82	0.53	0.70
8.04	0.99	12.68	6.03	76.41	2.81	0.43	0.70
8.06	0.96	12.22	6.20	75.82	2.83	0.41	0.70
8.08	0.91	11.51	6.61	76.10	2.86	0.42	0.70
8.10	0.87	10.87	7.13	77.50	2.89	0.47	0.70
8.12	0.86	10.77	7.25	78.08	2.90	0.50	0.70
8.14	0.90	11.23	6.83	76.75	2.87	0.45	0.70
8.16	0.94	11.78	6.38	75.15	2.84	0.39	0.70
8.18	0.98	12.26	6.02	73.86	2.81	0.35	0.69
8.20	1.00	12.51	5.96	74.56	2.81	0.37	0.69
8.22	1.00	12.51	6.07	75.95	2.82	0.42	0.70
8.24	0.99	12.38	6.23	77.18	2.83	0.46	0.70
8.26	0.99	12.30	6.24	76.73	2.83	0.44	0.70
8.28	0.98	12.25	6.18	75.63	2.83	0.41	0.70
8.30	0.97	12.07	6.18	74.59	2.83	0.37	0.69
8.32	0.96	11.89	6.22	74.01	2.83	0.35	0.69
8.34	0.97	11.98	6.02	72.06	2.81	0.30	0.69
8.36	1.00	12.28	5.62	68.96	2.78	0.23	0.68
8.38	1.02	12.55	5.29	66.45	2.75	0.19	0.67
8.40	1.05	12.86	4.97	63.87	2.72	0.15	0.67
8.42	1.08	13.25	4.72	62.56	2.70	0.14	0.66
8.44	1.13	13.80	4.45	61.42	2.68	0.78	0.78
8.46	1.14	13.97	4.45	62.15	2.67	0.79	0.79
8.48	1.12	13.64	4.59	62.65	2.69	0.80	0.80
8.50	1.07	12.98	4.90	63.56	2.72	0.15	0.67
8.52	1.03	12.39	5.20	64.46	2.75	0.16	0.67
8.54	1.02	12.34	5.25	64.75	2.75	0.17	0.67
8.56	1.08	13.08	4.87	63.66	2.72	0.15	0.67

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.58	1.18	14.34	4.24	60.85	2.65	0.77	0.77
8.60	1.27	15.39	3.82	58.77	2.61	0.72	0.72
8.62	1.32	16.00	3.58	57.36	2.58	0.42	0.70
8.64	1.38	16.77	3.40	56.93	2.56	0.22	0.68
8.66	1.47	17.78	3.19	56.79	2.53	0.12	0.66
8.68	1.52	18.50	3.14	58.16	2.52	0.12	0.66
8.70	1.51	18.39	3.33	61.27	2.55	0.28	0.69
8.72	1.46	17.82	3.66	65.23	2.59	0.73	0.73
8.74	1.44	17.54	3.79	66.42	2.60	0.74	0.74
8.76	1.50	18.13	3.55	64.45	2.58	0.72	0.72
8.78	1.56	18.85	3.26	61.52	2.54	0.23	0.68
8.80	1.57	18.91	3.23	61.13	2.54	0.20	0.68
8.82	1.49	17.93	3.58	64.19	2.58	0.72	0.72
8.84	1.39	16.67	3.97	66.27	2.63	0.76	0.76
8.86	1.33	15.95	4.10	65.30	2.64	0.77	0.77
8.88	1.34	15.95	3.76	59.95	2.60	0.72	0.72
8.90	1.39	16.45	3.37	55.45	2.55	0.18	0.67
8.92	1.43	16.86	3.17	53.45	2.53	0.09	0.65
8.94	1.44	16.98	3.15	53.50	2.52	0.08	0.64
8.96	1.41	16.60	3.39	56.26	2.56	0.21	0.68
8.98	1.37	16.11	3.65	58.82	2.59	0.62	0.71
9.00	1.33	15.64	3.86	60.36	2.61	0.73	0.73
9.02	1.26	14.74	4.07	60.04	2.64	0.75	0.75
9.04	1.19	13.81	4.30	59.35	2.66	0.76	0.76
9.06	1.11	12.74	4.65	59.30	2.69	0.79	0.79
9.08	1.09	12.53	4.67	58.52	2.70	0.79	0.79
9.10	1.12	12.79	4.50	57.63	2.68	0.77	0.77
9.12	1.19	13.69	4.08	55.87	2.64	0.74	0.74
9.14	1.26	14.50	3.77	54.72	2.60	0.57	0.71
9.16	1.29	14.90	3.64	54.21	2.59	0.35	0.69
9.18	1.27	14.65	3.75	54.99	2.60	0.55	0.71
9.20	1.26	14.42	3.86	55.61	2.61	0.72	0.72
9.22	1.29	14.84	3.73	55.29	2.60	0.52	0.70
9.24	1.36	15.60	3.53	55.05	2.57	0.28	0.69
9.26	1.43	16.44	3.29	54.05	2.54	0.12	0.66
9.28	1.49	17.21	3.08	53.06	2.51	0.07	0.64
9.30	1.58	18.25	2.89	52.82	2.49	0.06	0.63
9.32	1.65	19.04	2.86	54.42	2.48	0.07	0.64
9.34	1.62	18.73	3.08	57.64	2.51	0.09	0.65
9.36	1.54	17.74	3.37	59.74	2.55	0.27	0.69
9.38	1.46	16.80	3.60	60.53	2.58	0.64	0.71
9.40	1.44	16.48	3.60	59.41	2.58	0.56	0.71
9.42	1.42	16.20	3.63	58.79	2.59	0.57	0.71
9.44	1.36	15.42	3.83	59.01	2.61	0.72	0.72
9.46	1.29	14.56	4.18	60.80	2.65	0.76	0.76
9.48	1.23	13.85	4.50	62.33	2.68	0.79	0.79
9.50	1.21	13.57	4.63	62.81	2.69	0.80	0.80
9.52	1.21	13.56	4.52	61.28	2.68	0.79	0.79

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
9.54	1.22	13.66	4.41	60.24	2.67	0.78	0.78
9.56	1.20	13.36	4.58	61.14	2.69	0.79	0.79
9.58	1.14	12.60	5.05	63.65	2.73	0.15	0.67
9.60	1.05	11.58	5.69	65.95	2.79	0.18	0.67
9.62	1.01	10.96	5.96	65.27	2.81	0.17	0.67
9.64	0.99	10.73	5.93	63.61	2.81	0.15	0.67
9.66	1.00	10.81	5.61	60.64	2.78	0.12	0.66
9.68	1.08	11.80	4.85	57.22	2.71	0.09	0.65
9.70	1.17	12.81	4.28	54.77	2.66	0.75	0.75
9.72	1.25	13.70	4.05	55.44	2.63	0.73	0.73
9.74	1.24	13.67	4.24	57.96	2.65	0.76	0.76
9.76	1.26	13.86	4.27	59.24	2.66	0.76	0.76
9.78	1.29	14.18	4.08	57.80	2.64	0.74	0.74
9.80	1.30	14.26	4.02	57.34	2.63	0.74	0.74
9.82	1.24	13.56	4.41	59.81	2.67	0.78	0.78
9.84	1.14	12.34	5.21	64.32	2.75	0.16	0.67
9.86	1.05	11.25	5.92	66.67	2.81	0.19	0.67
9.88	0.97	10.28	6.52	67.00	2.85	0.20	0.68
9.90	0.93	9.71	6.79	65.89	2.87	0.18	0.67
9.92	1.02	10.86	5.79	62.87	2.80	0.14	0.66
9.94	1.23	13.24	4.30	56.99	2.66	0.76	0.76
9.96	1.52	16.72	3.29	54.95	2.54	0.13	0.66
9.98	1.72	19.08	3.16	60.23	2.53	0.15	0.67
10.00	1.97	22.09	3.10	68.42	2.52	0.24	0.68
10.02	2.11	23.83	3.32	79.15	2.55	0.73	0.73
10.04	2.21	25.04	3.68	92.18	2.59	0.80	0.80
10.06	2.14	24.41	4.65	113.55	2.69	0.93	0.93
10.08	2.09	23.96	5.64	135.18	2.78	0.81	0.81
10.10	2.08	23.85	6.50	154.96	2.85	0.83	0.83
10.12	1.92	22.04	7.66	168.81	2.93	0.85	0.85
10.14	1.79	20.36	8.57	174.56	2.99	0.86	0.86
10.16	1.94	22.13	7.60	168.12	2.93	0.85	0.85
10.18	2.82	32.24	4.29	138.22	2.66	0.94	0.94
10.20	4.37	49.73	2.20	109.29	2.36	0.76	0.76
10.22	7.16	80.76	1.41	114.16	2.10	0.77	0.77
10.24	10.25	114.90	1.28	146.63	1.96	0.82	0.82
10.26	12.73	142.46	1.25	177.88	1.92	0.86	0.86
10.28	14.25	159.30	1.24	197.56	1.90	0.88	0.88
10.30	15.20	169.73	1.24	210.80	1.91	0.90	0.90
10.32	16.24	180.96	1.23	223.16	1.89	0.91	0.91
10.34	17.06	189.82	1.23	233.22	1.89	0.92	0.92
10.36	17.79	197.48	1.22	240.88	1.88	0.93	0.93
10.38	18.61	206.38	1.22	251.94	1.88	0.94	0.94
10.40	20.09	222.53	1.22	270.39	1.87	0.95	0.95
10.42	21.19	234.64	1.23	288.01	1.89	0.97	0.97
10.44	23.27	257.18	1.22	313.09	1.87	0.99	0.99
10.46	24.33	268.66	1.22	327.53	1.87	1.00	1.00
10.48	26.91	295.98	1.19	352.18	1.84	1.02	1.02

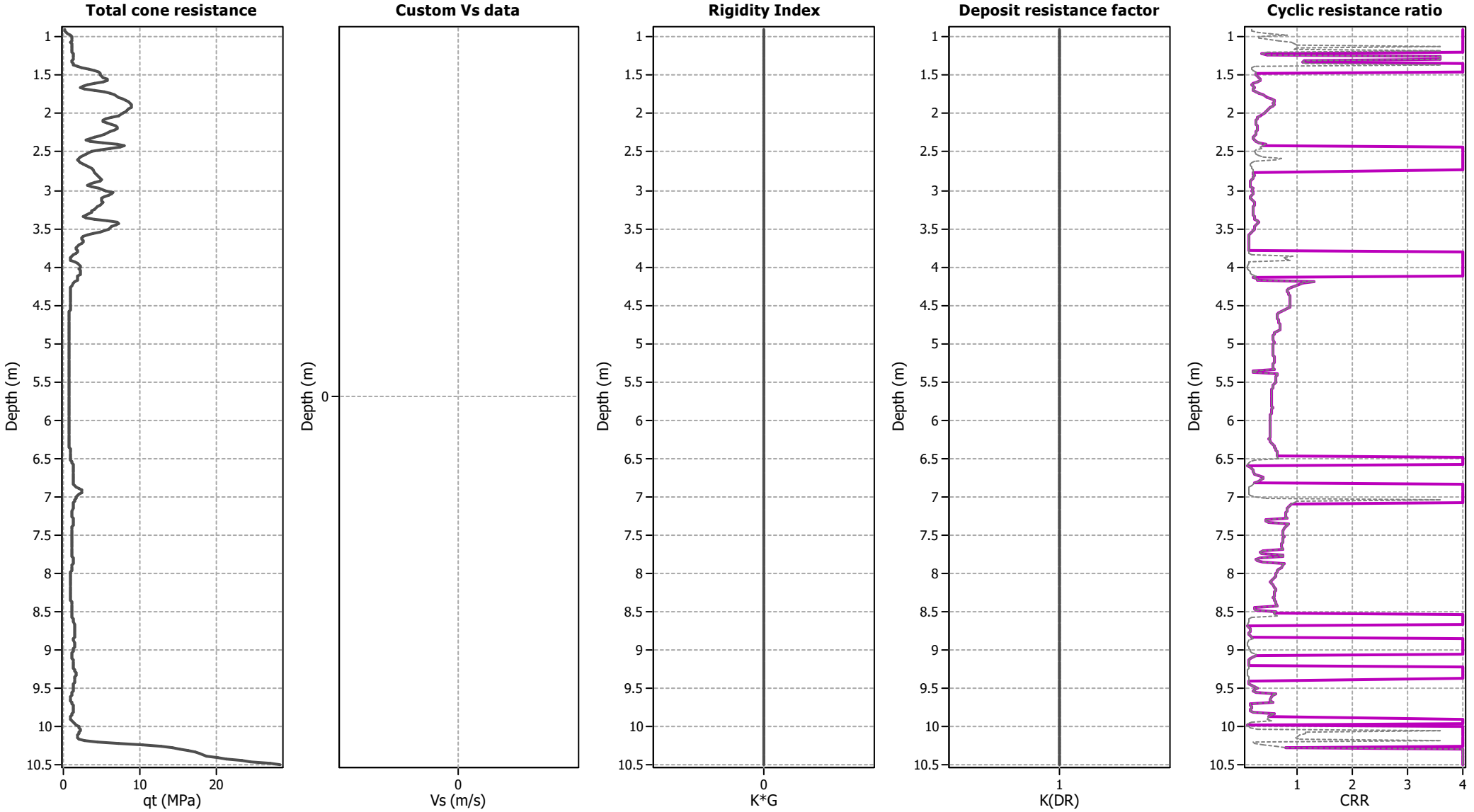
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
10.50	28.21	309.43	1.17	362.66	1.82	1.02	1.02

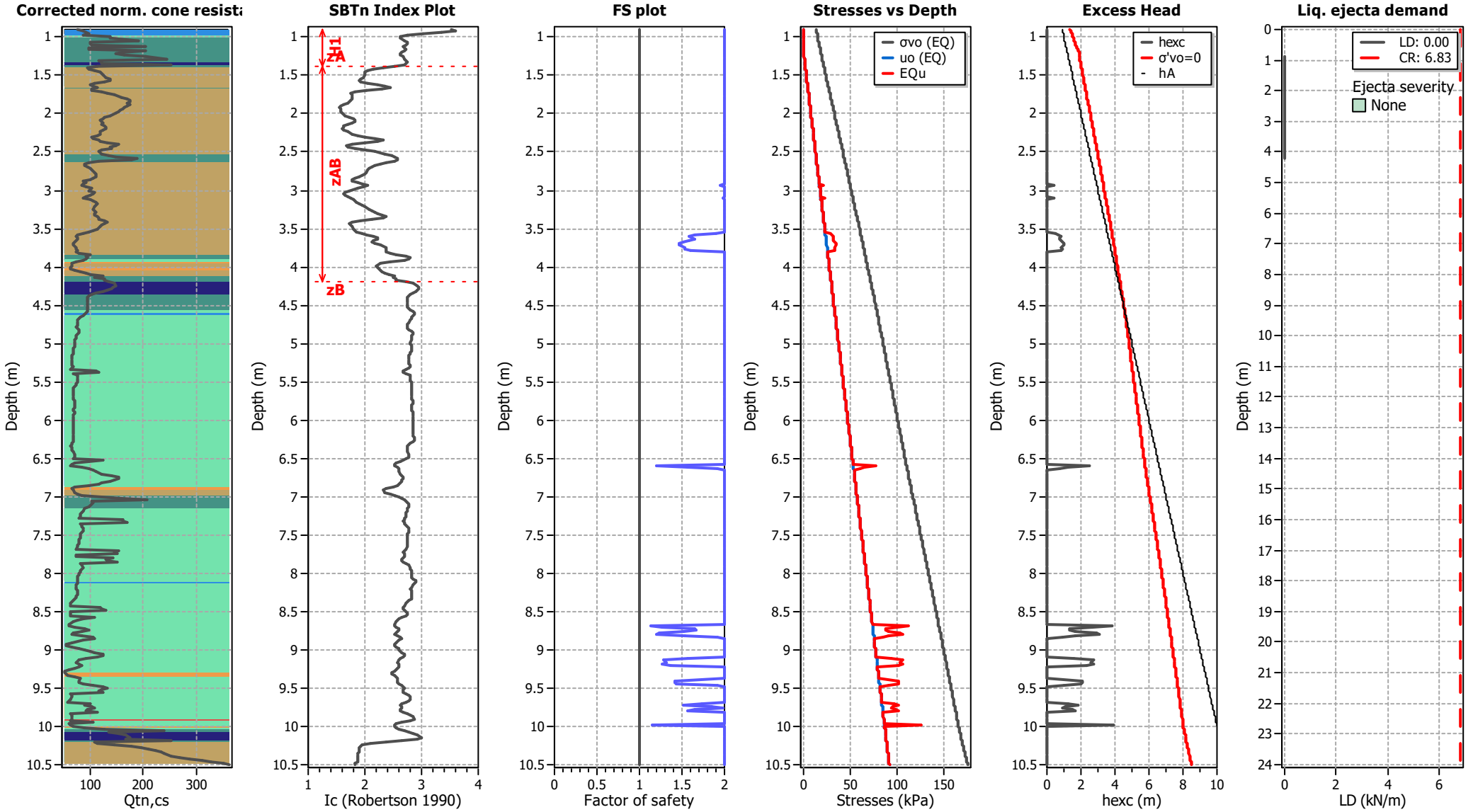
Abbreviations

q_t: Total cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
I_c: Soil behavior type index
$S_{u(liq)}/\sigma'_v$: Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$: Calculated peak undrained strength ratio

Aging Calculation Estimation

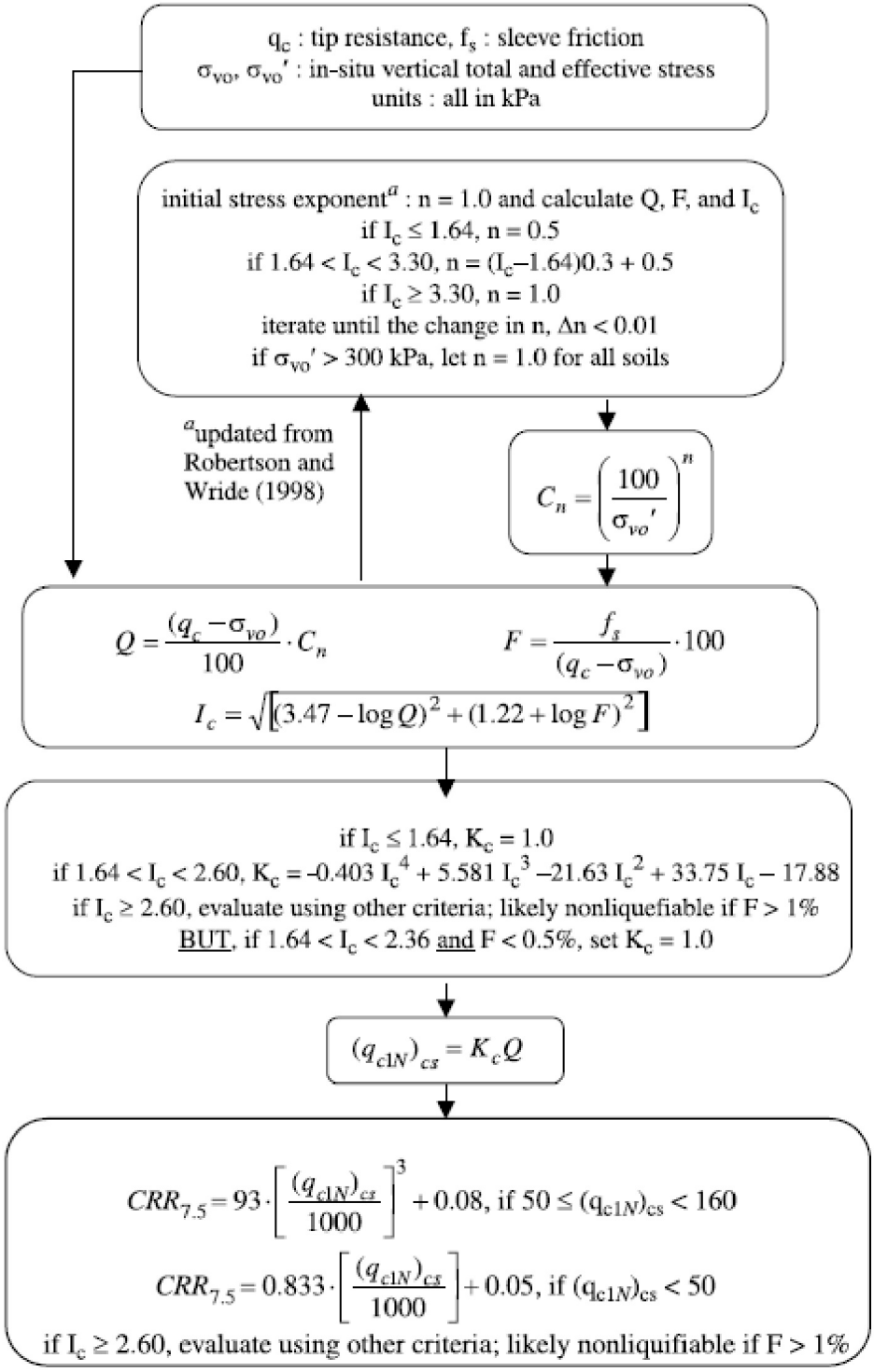


Ejecta Severity Estimation



Procedure for the evaluation of soil liquefaction resistance, NCEER (1998)

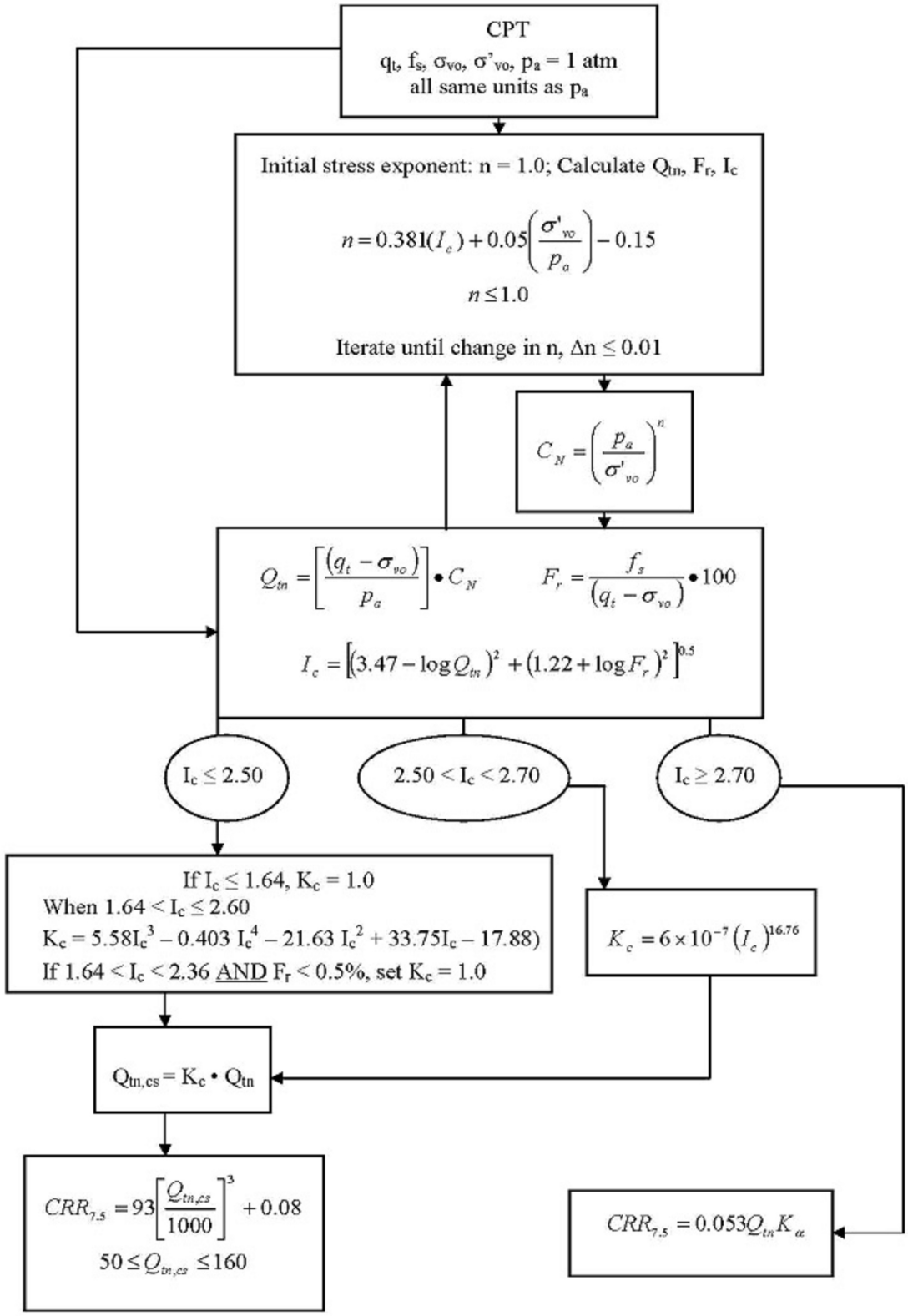
Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. The procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:



[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

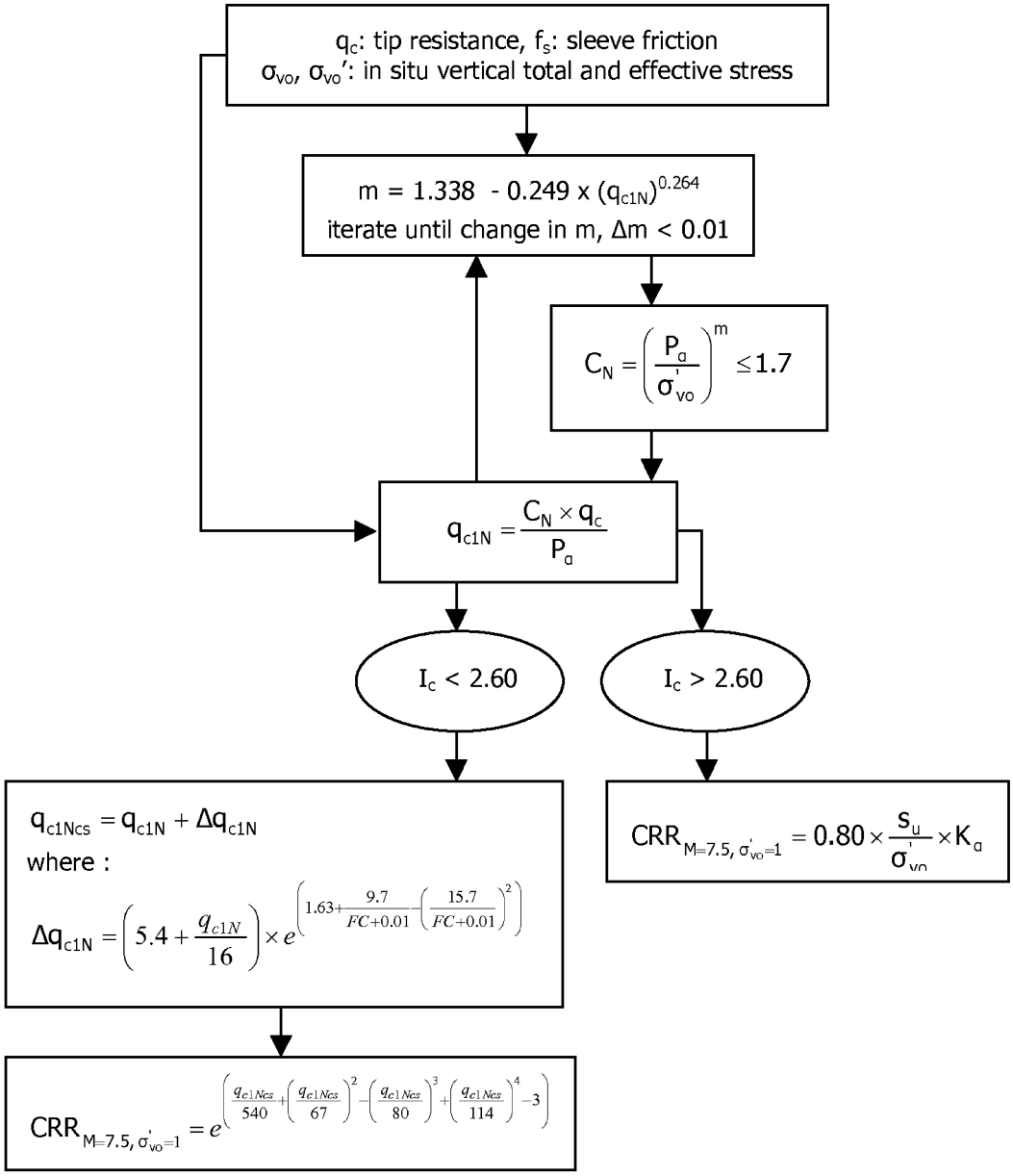
Procedure for the evaluation of soil liquefaction resistance (all soils), Robertson (2010)

Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. This procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:

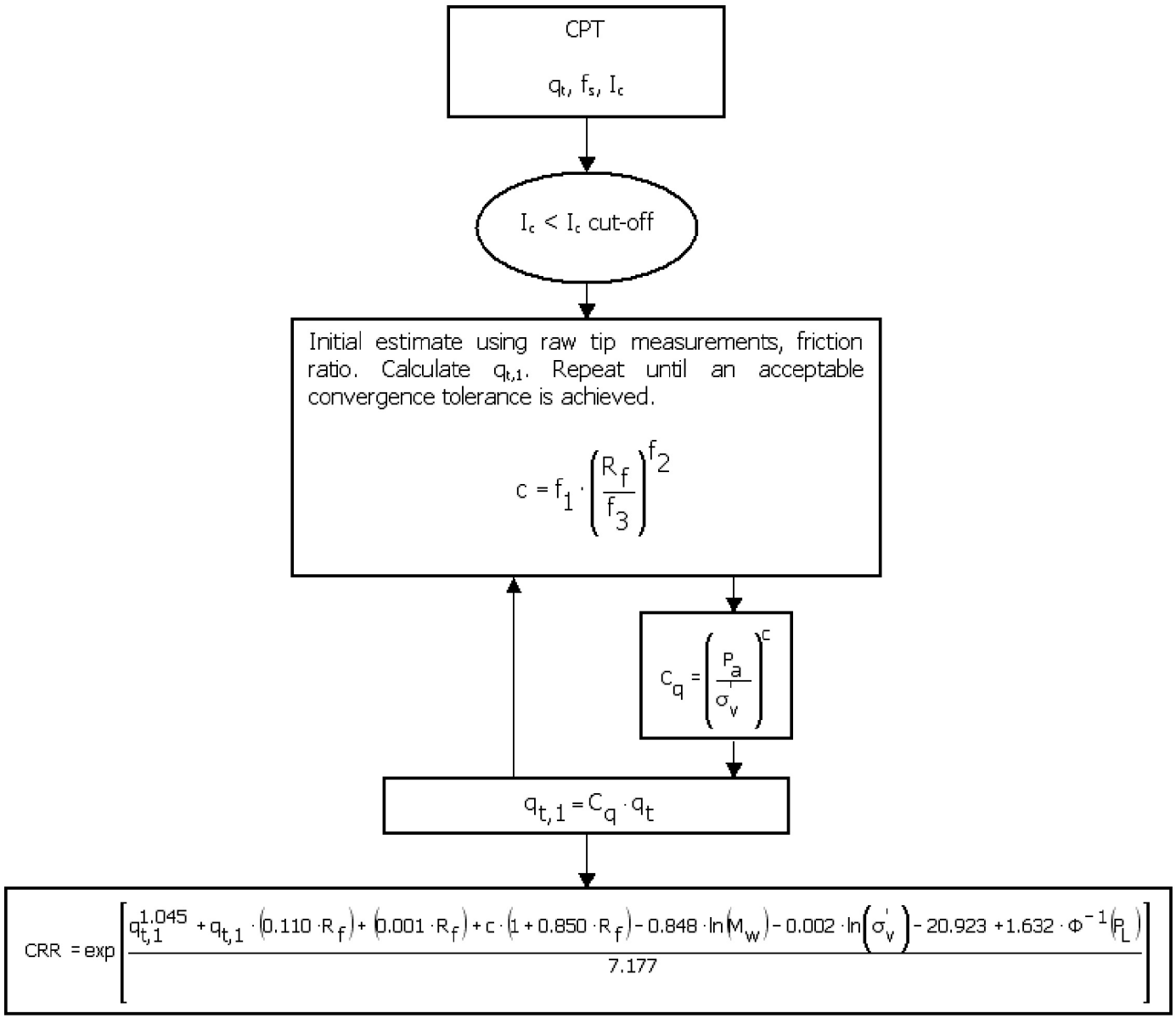


[1] P.K. Robertson, 2009. "Performance based earthquake design using the CPT", Keynote Lecture, International Conference on Performance-based Design in Earthquake Geotechnical Engineering – from case history to practice, IS-Tokyo, June 2009

Procedure for the evaluation of soil liquefaction resistance, Idriss & Boulanger (2008)



Procedure for the evaluation of soil liquefaction resistance (sandy soils), Moss et al. (2006)



Procedure for the evaluation of soil liquefaction resistance, Boulanger & Idriss(2014)

$$FS_{liq} = \frac{CRR_{M=7.5,\sigma'_v=1atm}}{CSR_{M=7.5,\sigma'_v=1atm}}$$

$$CSR_{M=7.5,\sigma'_v=1atm} = 0.65 \frac{\sigma_v}{\sigma'_v} \frac{a_{max}}{g} r_d \frac{1}{MSF} \frac{1}{K_\sigma}$$

$$r_d = \exp\left[\alpha(z) + \beta(z) \cdot M\right]$$

$$\alpha(z) = -1.012 - 1.126 \sin\left(\frac{z}{11.73} + 5.133\right)$$

$$\beta(z) = 0.106 + 0.118 \sin\left(\frac{z}{11.28} + 5.142\right)$$

$$K_\sigma = 1 - C_\sigma \ln\left(\frac{\sigma'_v}{P_a}\right) \leq 1.1$$

$$C_\sigma = \frac{1}{37.3 - 8.27\left(q_{c1Ncs}\right)^{0.264}} \leq 0.3$$

$$MSF = 1 + \left(MSF_{max} - 1\right)\left(8.64 \exp\left(\frac{-M}{4}\right) - 1.325\right)$$

$$MSF_{max} = 1.09 + \left(\frac{q_{c1Ncs}}{180}\right)^3 \leq 2.2$$

σ'_v *and* σ_v *at start of earthquake shaking*

$$CRR_{M=7.5,\sigma'_v=1atm} = \exp\left(\frac{q_{c1Ncs}}{113} + \left(\frac{q_{c1Ncs}}{1000}\right)^2 - \left(\frac{q_{c1Ncs}}{140}\right)^3 + \left(\frac{q_{c1Ncs}}{137}\right)^4 - 2.80\right)$$

$$q_{c1Ncs} = q_{c1N} + \Delta q_{c1N}$$

$$\Delta q_{c1N} = \left(11.9 + \frac{q_{c1N}}{14.6}\right) \exp\left(1.63 - \frac{9.7}{FC+2} - \left(\frac{15.7}{FC+2}\right)^2\right)$$

$$q_{c1N} = C_{Ne} \frac{q_c}{P_a}$$

$$C_{Ne} = \left(\frac{P_a}{\sigma'_v}\right)^m \leq 1.7$$

$$m = 1.338 - 0.249\left(q_{c1Ncs}\right)^{0.264} \quad with \quad 0.264 \leq m \leq 0.782$$

$$FC = 80\left(I_C + C_{FC}\right) - 137 \quad with \quad 0\% \leq FC \leq 100\%$$

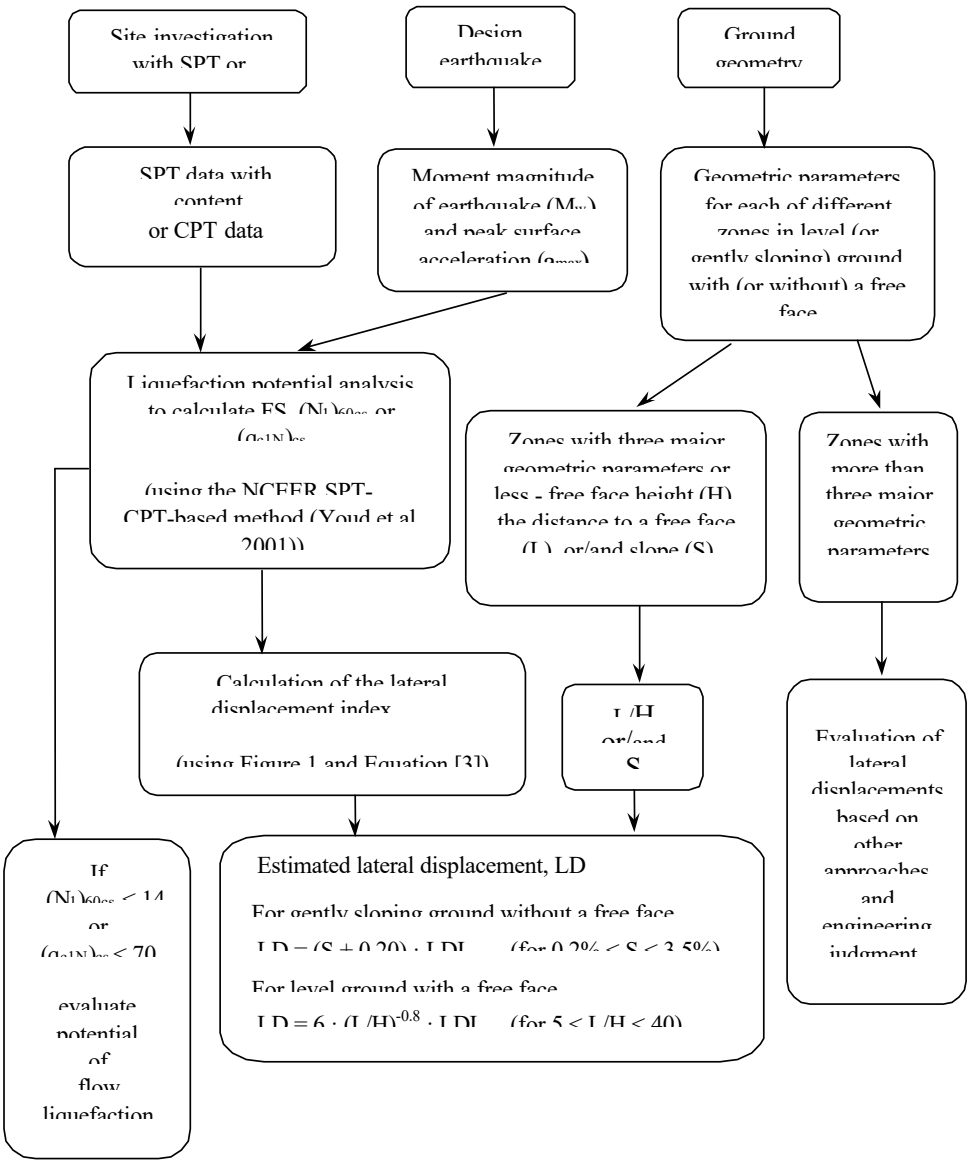
$$I_c = \left[\left(3.47 - \log\left(Q\right)\right)^2 + \left(1.22 + \log\left(F\right)\right)^2\right]^{0.5}$$

$$Q = \left(\frac{q_c - \sigma_{vc}}{P_a}\right)\left(\frac{P_a}{\sigma'_{vc}}\right)^n \; with \; 0.5 \leq n \leq 1.0 \; per \; Robertson \; \& \; Wride \; (1998)$$

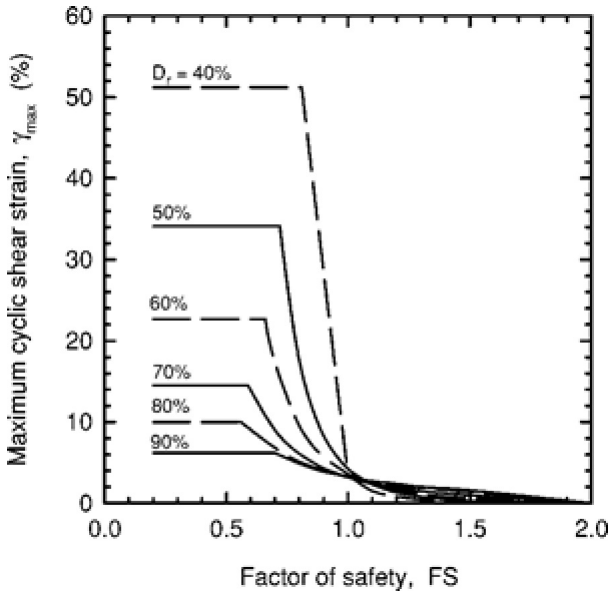
$$F = \left(\frac{f_s}{q_c - \sigma_{vc}}\right) \cdot 100\%$$

σ'_v *at time of CPT sounding*

Procedure for the evaluation of liquefaction-induced lateral spreading displacements



[1] Flow chart illustrating major steps in estimating liquefaction-induced lateral spreading displacements using the proposed approach



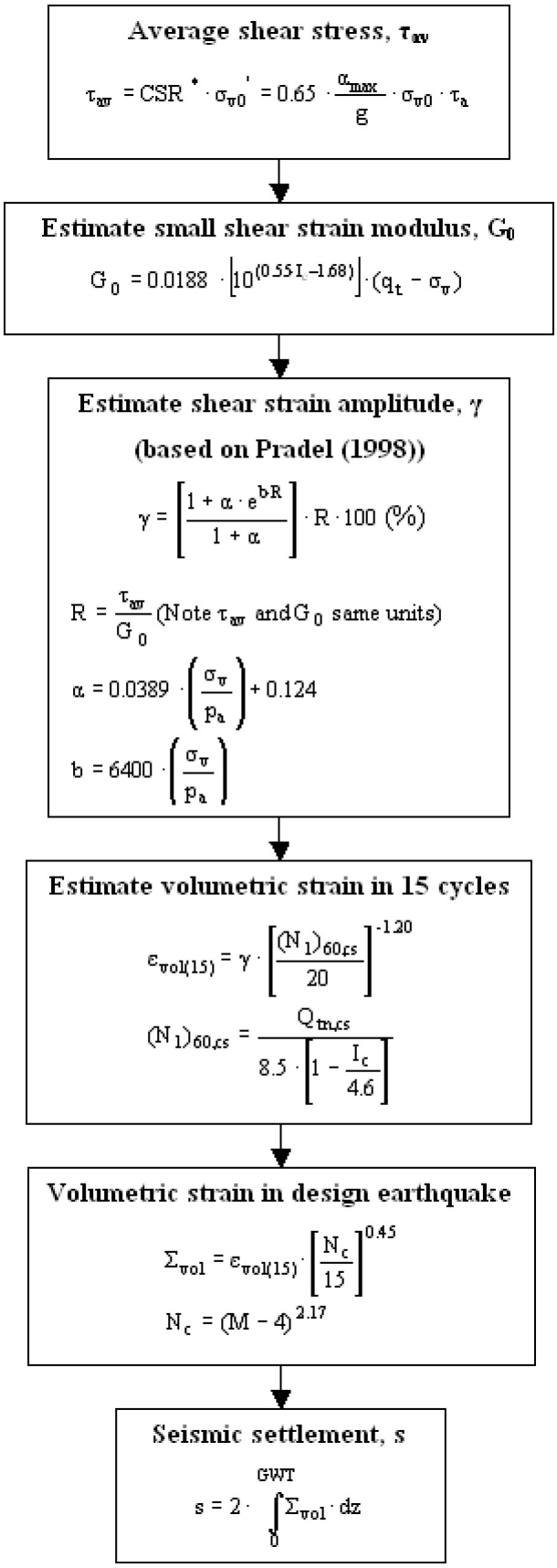
[1] **Figure 1**

$$\mathrm{LDI} = \int_0^{z_{max}} \gamma_{max} dz$$

[1] **Equation [3]**

[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

Procedure for the estimation of seismic induced settlements in dry sands



Robertson, P.K. and Lisheng, S., 2010, "Estimation of seismic compression in dry soils using the CPT" FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS, Symposium in honor of professor I. M. Idriss, San Diego, CA

Liquefaction Potential Index (LPI) calculation procedure

Calculation of the Liquefaction Potential Index (LPI) is used to interpret the liquefaction assessment calculations in terms of severity over depth. The calculation procedure is based on the methology developed by Iwasaki (1982) and is adopted by AFPS.

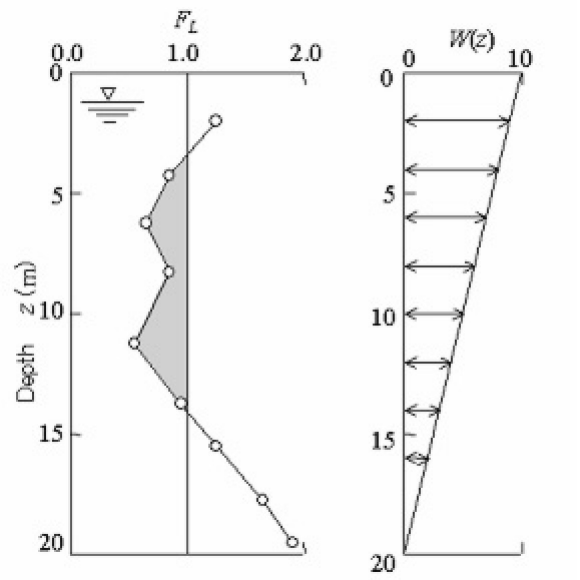
To estimate the severity of liquefaction extent at a given site, LPI is calculated based on the following equation:

$$\mathbf{LPI} = \int_0^{20} (10 - 0{,}5z) \times F_L \times dz$$

where:
F_L = 1 - F.S. when F.S. less than 1
F_L = 0 when F.S. greater than 1
z depth of measurment in meters

Values of LPI range between zero (0) when no test point is characterized as liquefiable and 100 when all points are characterized as susceptible to liquefaction. Iwasaki proposed four (4) discrete categories based on the numeric value of LPI:

- LPI = 0 : Liquefaction risk is very low
- 0 < LPI <= 5 : Liquefaction risk is low
- 5 < LPI <= 15 : Liquefaction risk is high
- LPI > 15 : Liquefaction risk is very high



Graphical presentation of the LPI calculation procedure

Shear-Induced Building Settlement (Ds) calculation procedure

The shear-induced building settlement (Ds) due to liquefaction below the building can be estimated using the relationship developed by Bray and Macedo (2017):

$$Ln(Ds) = c1 + c2 * LBS + 0.58 * Ln\left(Tanh\left(\frac{HL}{6}\right)\right) + 4.59 * Ln(Q) - 0.42 * Ln(Q)^2 - 0.02 * B + 0.84 * Ln(CAVdp) + 0.41 * Ln(Sa1) + \varepsilon$$

where Ds is in the units of mm, c1= -8.35 and c2= 0.072 for LBS ≤ 16, and c1= -7.48 and c2= 0.014 otherwise. Q is the building contact pressure in units of kPa, HL is the cumulative thickness of the liquefiable layers in the units of m, B is the building width in the units of m, CAVdp is a standardized version of the cumulative absolute velocity in the units of g-s, Sa1 is 5%-damped pseudo-acceleration response spectral value at a period of 1 s in the units of g, and ε is a normal random variable with zero mean and 0.50 standard deviation in Ln units. The liquefaction-induced building settlement index (LBS) is:

$$LBS = \sum W * \frac{\varepsilon_{shear}}{z} dz$$

where z (m) is the depth measured from the ground surface > 0, W is a foundation-weighting factor wherein W = 0.0 for z less than Df, which is the embedment depth of the foundation, and W = 1.0 otherwise. The shear strain parameter (ε_shear) is the liquefaction-induced free-field shear strain (in %) estimated using Zhang et al. (2004). It is calculated based on the estimated Dr of the liquefied soil layer and the calculated safety factor against liquefaction triggering (FSL).

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APPENDIX E-2:
Liquefaction Analysis at Crest of Embankment

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Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

LIQUEFACTION ANALYSIS REPORT

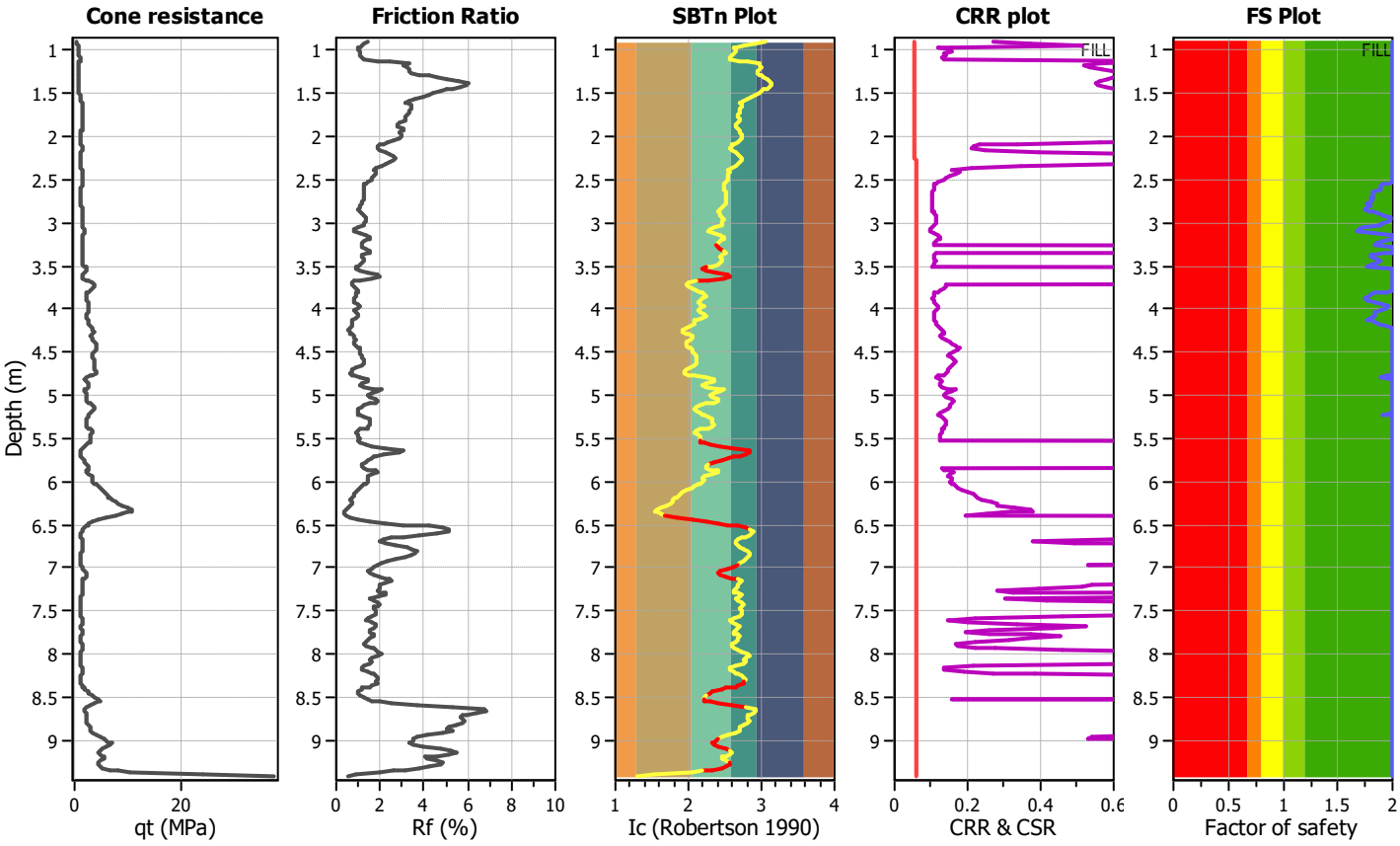
Project title : CWLP Liquefaction Analysis

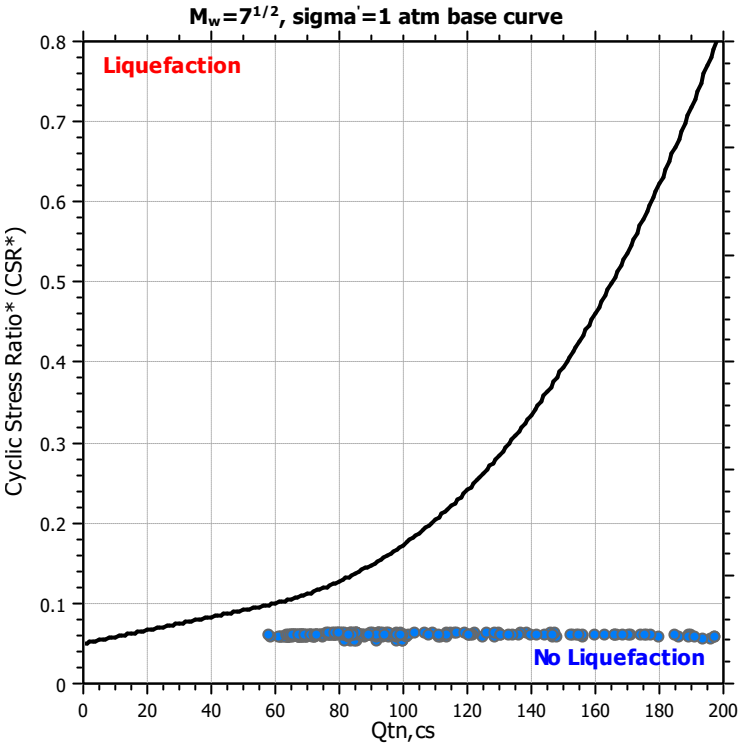
Location : East Lake Shore Drive, Springfield, Illinois

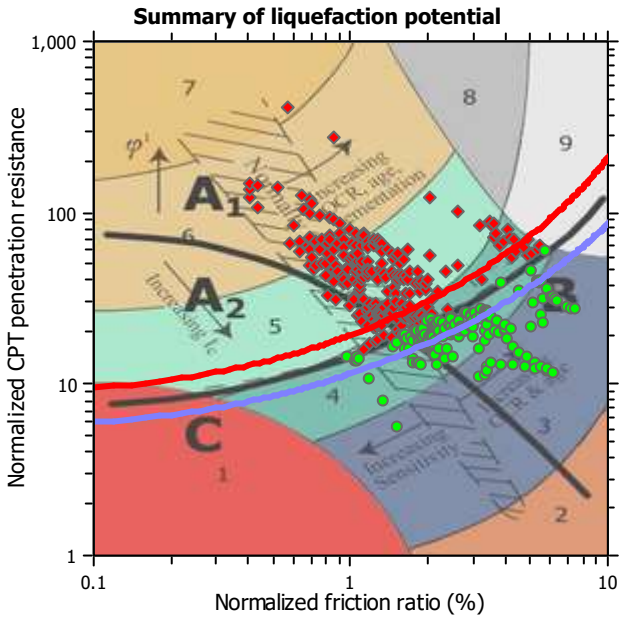
CPT file : CWLP CPT-2L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	0.50 m	Use fill:	Yes	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	4.63 m	Fill height:	5.52 m	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	19.32 kN/m³	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.10	Unit weight calculation:	Based on SBT	K_σ applied:	No		

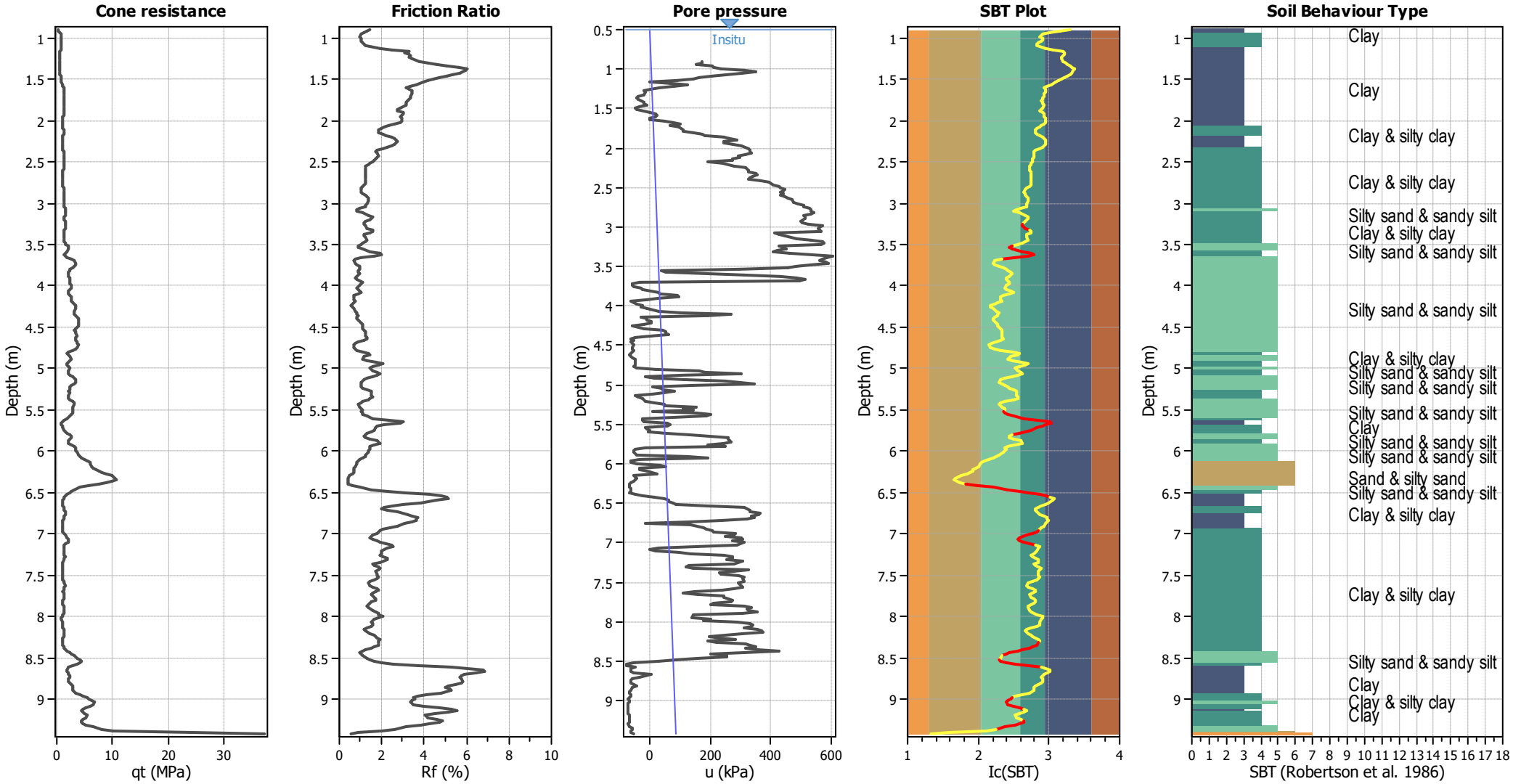






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



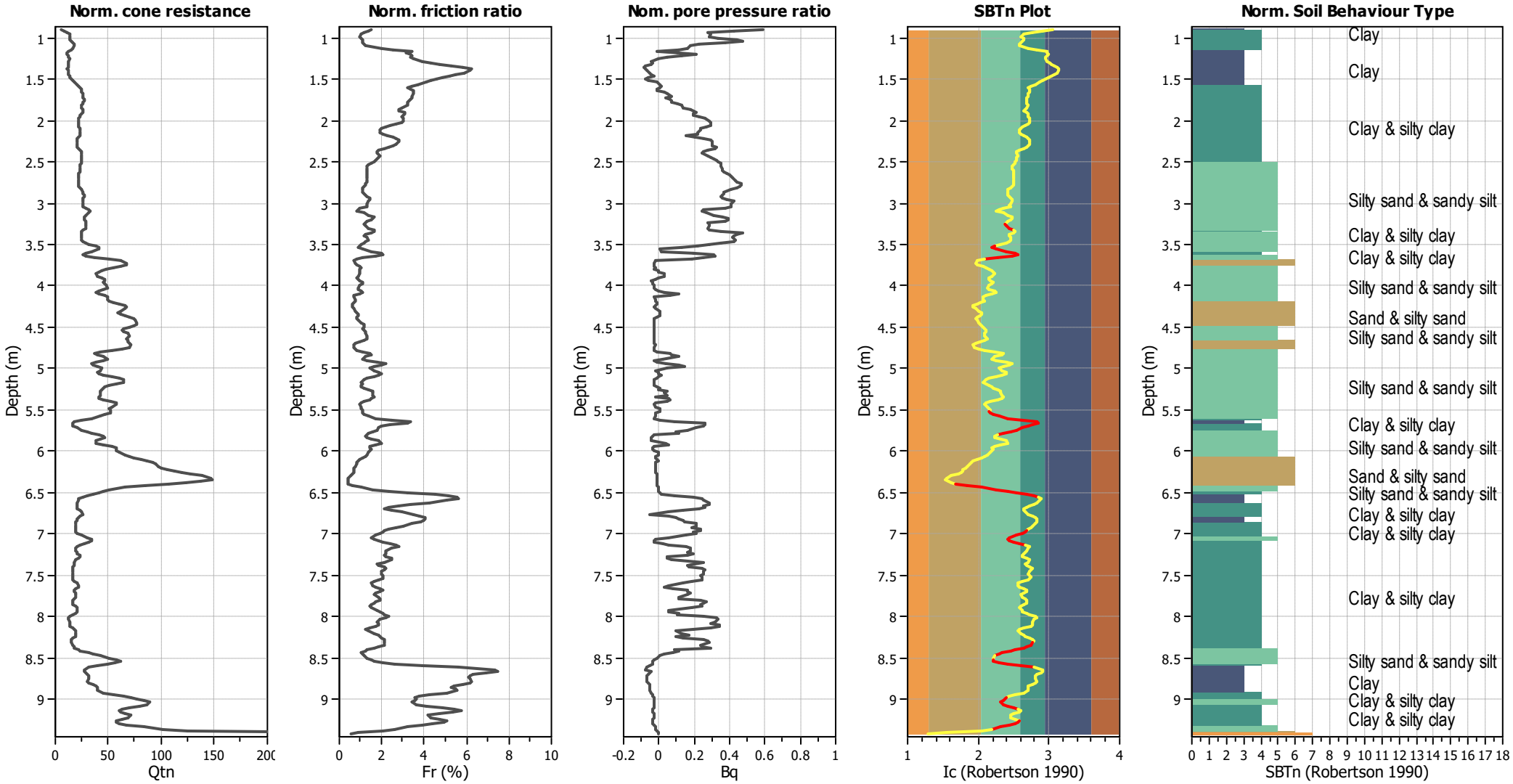
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.32 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	5.52 m	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



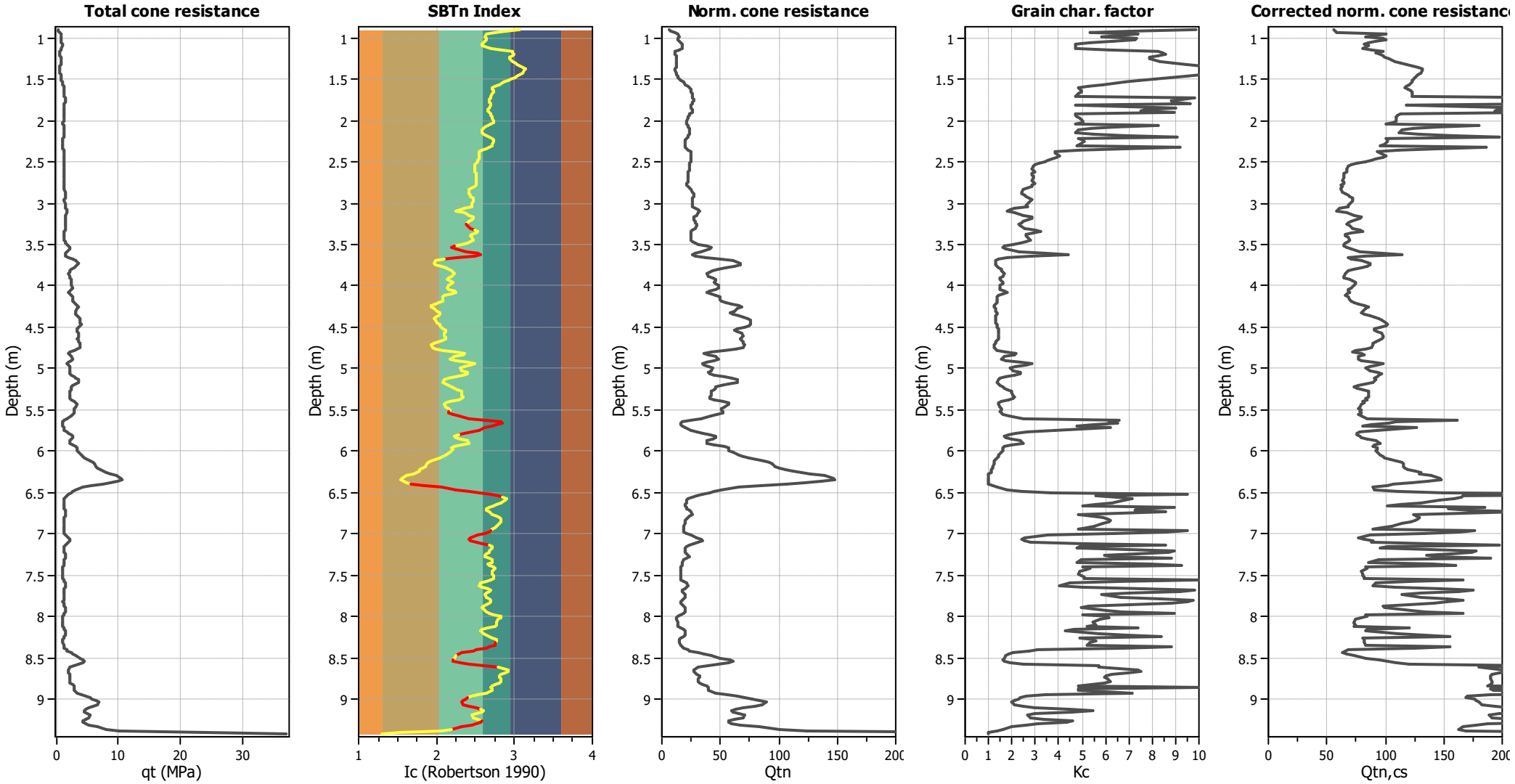
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.32 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	5.52 m	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

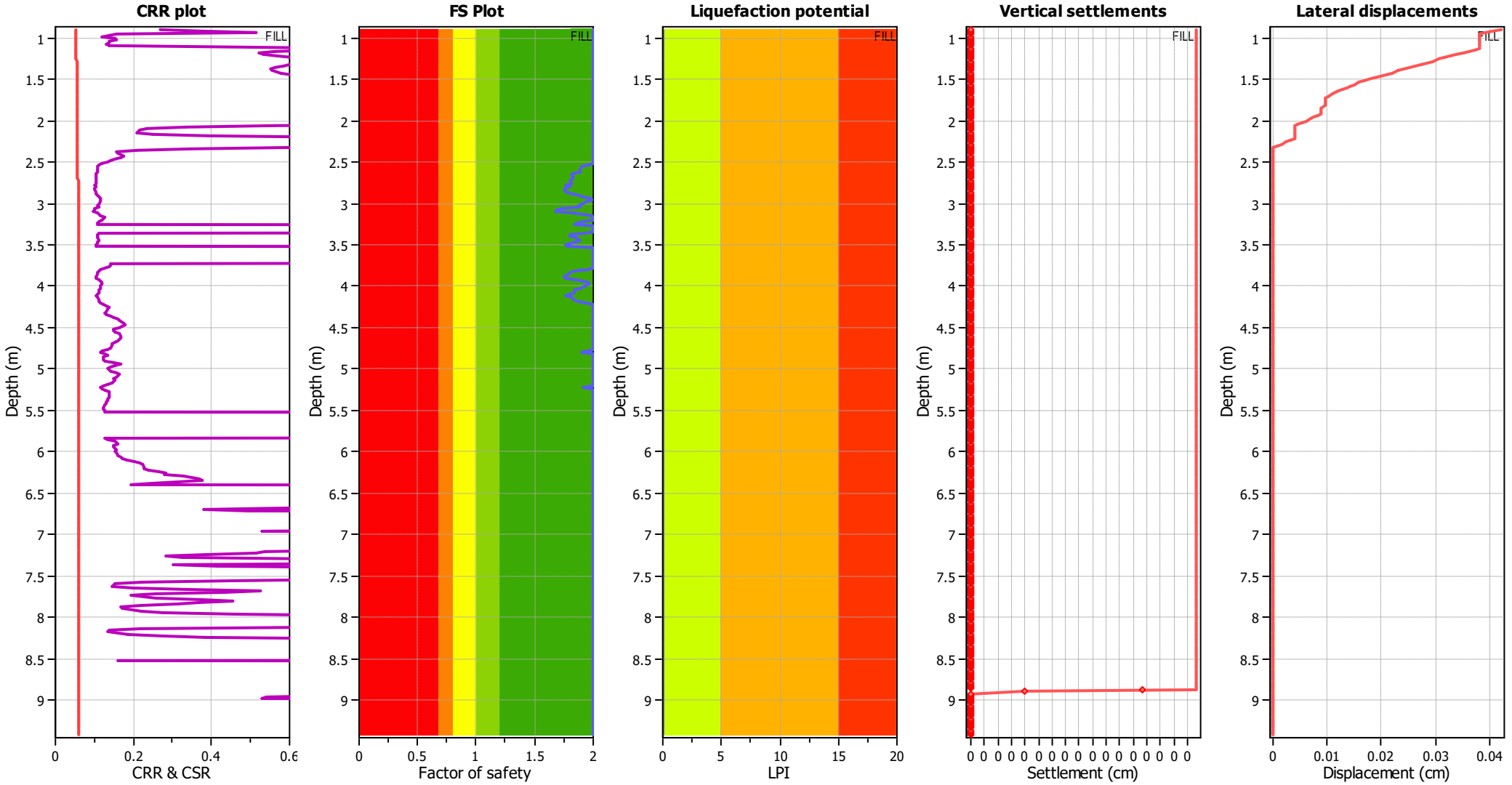
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.32 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	5.52 m	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.32 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	5.52 m	Limit depth:	N/A

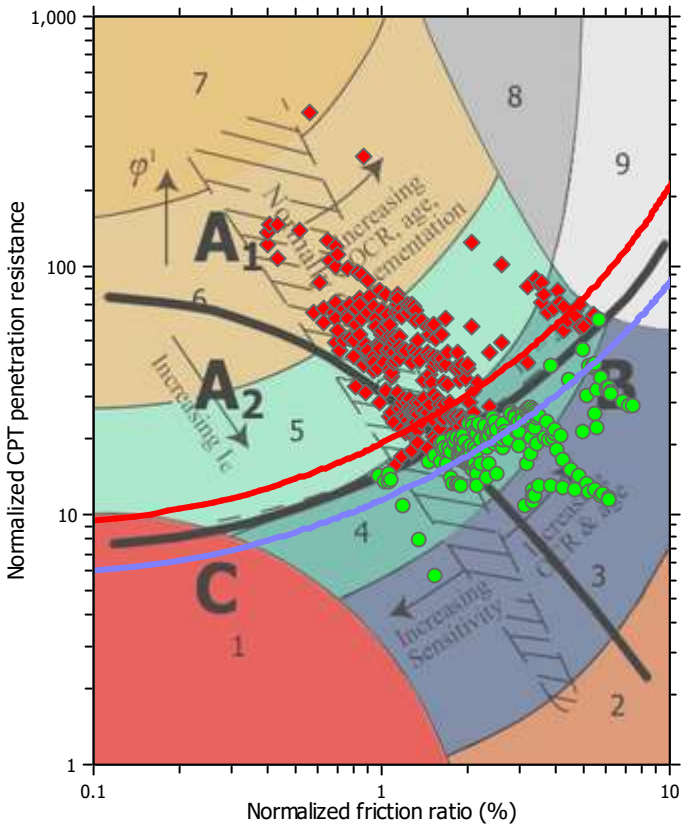
F.S. color scheme

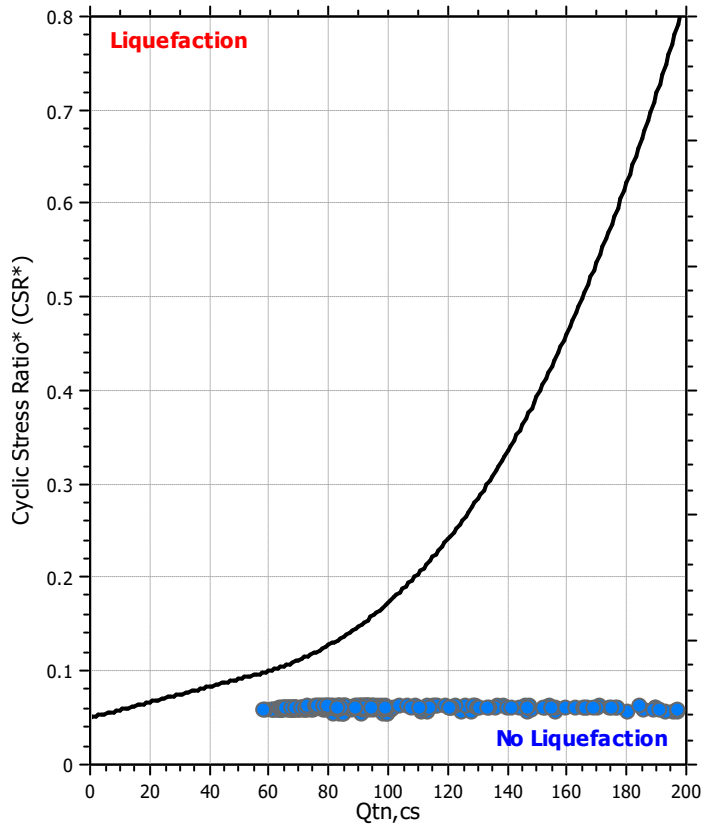
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

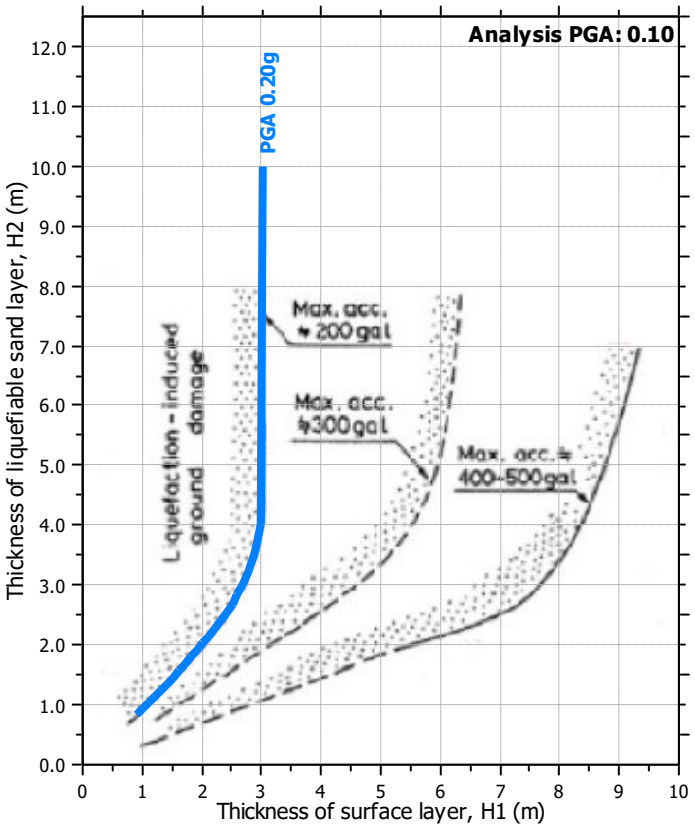
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



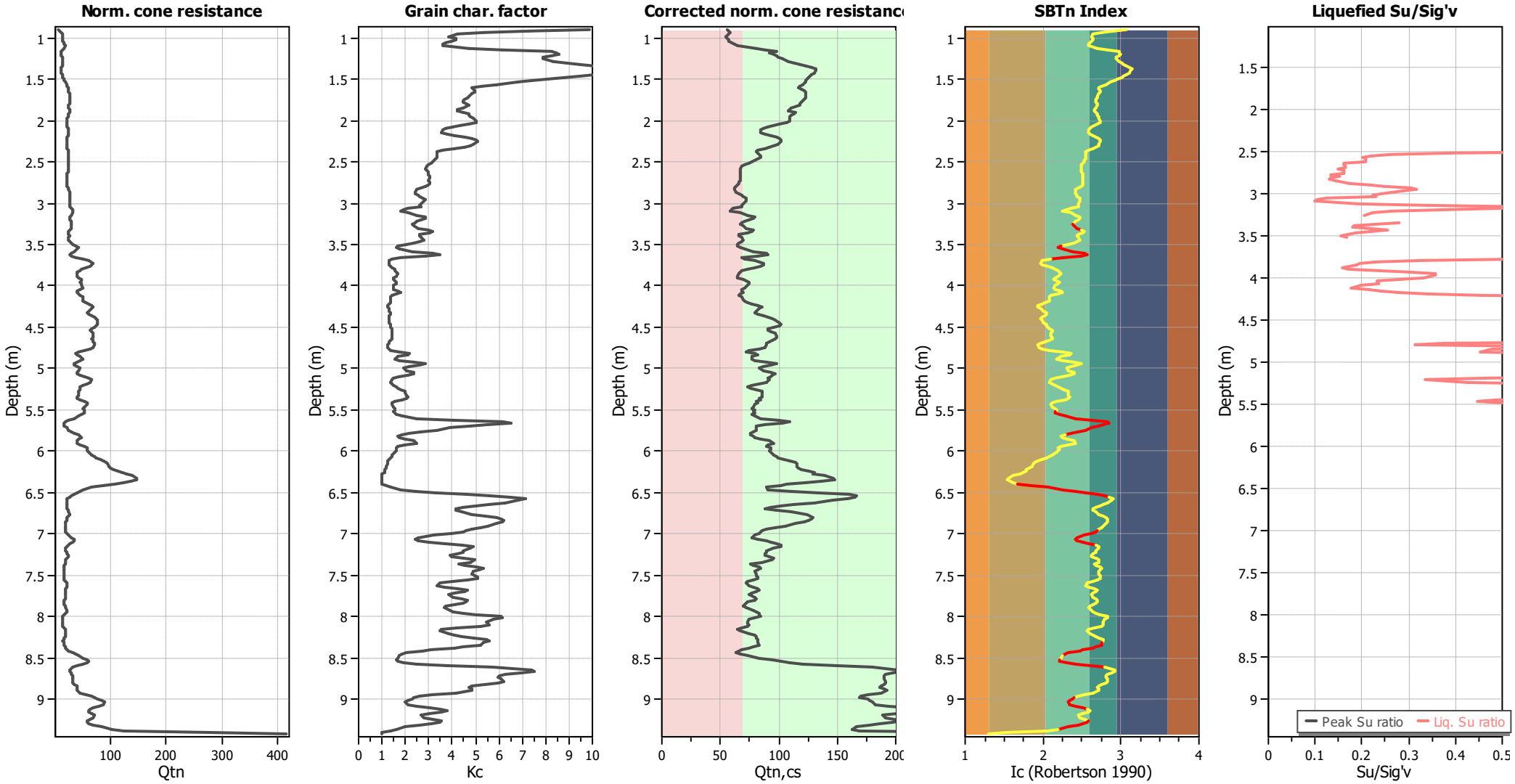




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.32 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	5.52 m	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

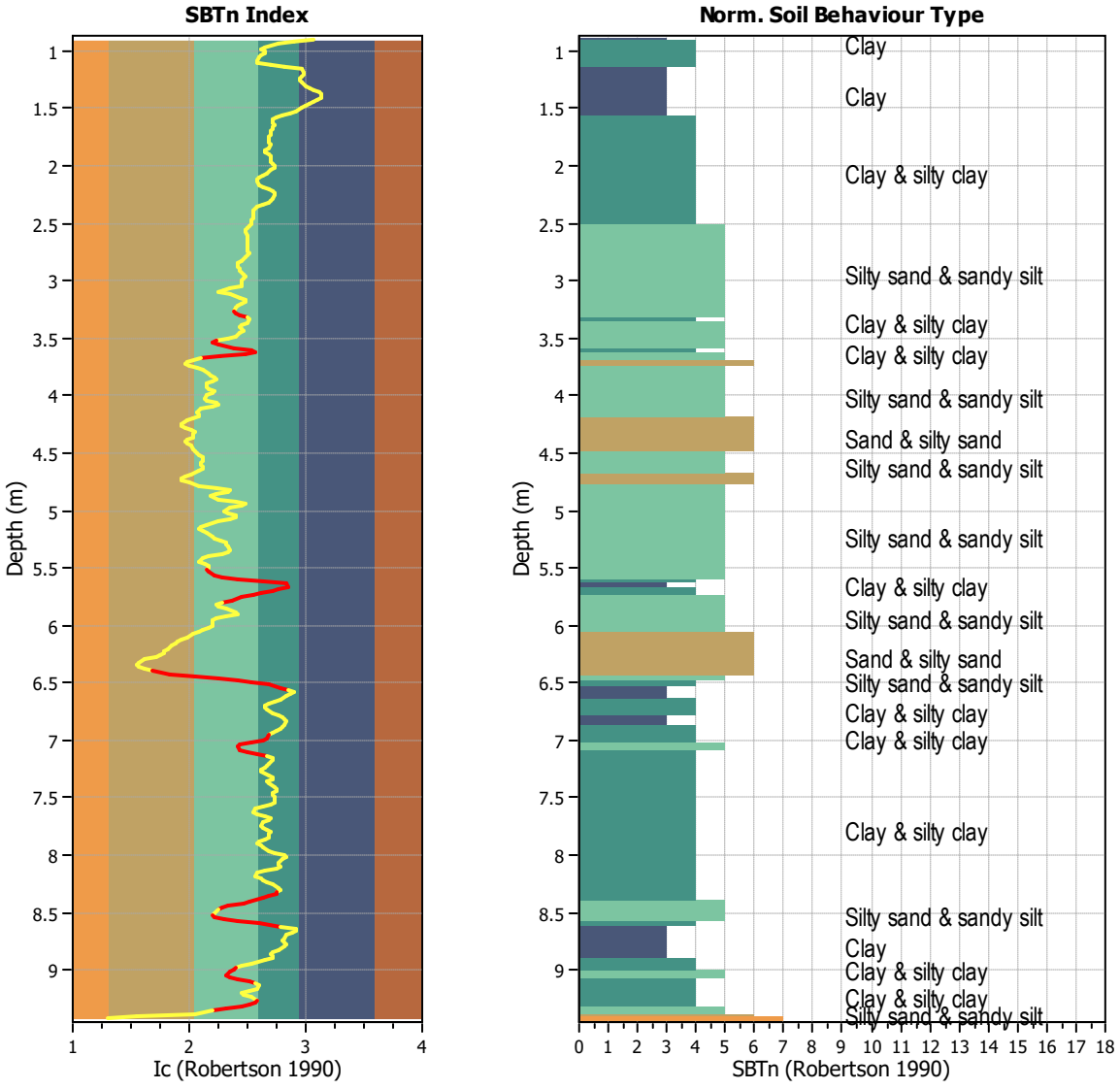
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.32 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.50 m	Fill height:	5.52 m	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between 1.80 < I_c < 3.0) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		General statistics	
I_c minimum check value:	1.70	Total points in CPT file:	427
I_c maximum check value:	3.00	Total points excluded:	80
I_c change ratio value:	0.0100	Exclusion percentage:	18.74%
Minimum number of points in layer:	3	Number of layers detected:	13

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	4	Start depth: 3.28 (m)	5	Silty sand & sandy silt
		End depth: 3.34 (m)	4	Clay & silty clay
Transition layer 2	5	Start depth: 3.54 (m)	5	Silty sand & sandy silt
		End depth: 3.62 (m)	4	Clay & silty clay
Transition layer 3	5	Start depth: 3.62 (m)	4	Clay & silty clay
		End depth: 3.70 (m)	6	Sand & silty sand
Transition layer 4	7	Start depth: 5.54 (m)	5	Silty sand & sandy silt
		End depth: 5.66 (m)	3	Clay
Transition layer 5	9	Start depth: 5.66 (m)	3	Clay
		End depth: 5.82 (m)	5	Silty sand & sandy silt
Transition layer 6	9	Start depth: 6.42 (m)	6	Sand & silty sand
		End depth: 6.58 (m)	3	Clay
Transition layer 7	5	Start depth: 6.98 (m)	4	Clay & silty clay
		End depth: 7.06 (m)	5	Silty sand & sandy silt
Transition layer 8	6	Start depth: 7.06 (m)	5	Silty sand & sandy silt
		End depth: 7.16 (m)	4	Clay & silty clay
Transition layer 9	9	Start depth: 8.34 (m)	4	Clay & silty clay
		End depth: 8.50 (m)	5	Silty sand & sandy silt
Transition layer 10	6	Start depth: 8.54 (m)	5	Silty sand & sandy silt
		End depth: 8.64 (m)	3	Clay
Transition layer 11	3	Start depth: 9.00 (m)	4	Clay & silty clay
		End depth: 9.04 (m)	5	Silty sand & sandy silt
Transition layer 12	6	Start depth: 9.04 (m)	5	Silty sand & sandy silt
		End depth: 9.14 (m)	4	Clay & silty clay
Transition layer 13	6	Start depth: 9.28 (m)	4	Clay & silty clay
		End depth: 9.38 (m)	5	Silty sand & sandy silt

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.27	4.40	172.40	62.64	14.23
2	0.92	0.27	4.40	172.40	52.39	14.58
3	0.94	0.61	7.30	154.80	43.66	14.91
4	0.96	0.71	7.70	206.80	37.78	15.14
5	0.98	0.69	6.90	213.70	35.95	15.13
6	1.00	0.71	6.70	233.70	37.70	15.10
7	1.02	0.57	7.70	311.80	37.66	15.18
8	1.04	0.71	8.10	351.50	36.56	15.24
9	1.06	0.81	7.60	309.30	35.28	15.45
10	1.08	0.81	11.60	207.60	34.38	15.63
11	1.10	0.93	11.70	165.80	34.38	15.76
12	1.12	0.94	11.10	146.10	40.63	16.20
13	1.14	0.69	28.20	90.20	47.36	16.23
14	1.16	0.57	16.10	-1.00	56.46	16.26
15	1.18	0.56	16.60	66.40	57.14	16.07
16	1.20	0.56	20.00	126.90	57.63	16.18
17	1.22	0.59	20.80	83.20	56.40	16.29
18	1.24	0.67	21.20	34.50	54.87	16.37
19	1.26	0.69	23.00	5.10	54.79	16.46
20	1.28	0.67	25.60	-20.00	56.73	16.57
21	1.30	0.67	28.10	-13.60	58.84	16.66
22	1.32	0.67	30.00	-21.60	60.99	16.75
23	1.34	0.65	32.60	-38.10	63.44	16.82
24	1.36	0.63	35.00	-43.10	66.33	16.89
25	1.38	0.60	36.80	-37.20	68.28	16.93
26	1.40	0.61	37.20	-30.00	67.91	16.93
27	1.42	0.64	35.20	-20.70	66.02	16.93
28	1.44	0.67	35.20	-20.10	63.62	16.93
29	1.46	0.69	35.30	-11.50	61.23	16.95
30	1.48	0.75	35.30	-35.40	58.71	16.97
31	1.50	0.80	34.90	-47.70	55.92	17.00
32	1.52	0.86	35.90	-41.30	53.03	17.06
33	1.54	0.95	37.90	-1.60	50.30	17.13
34	1.56	1.01	38.20	17.80	46.31	17.20
35	1.58	1.19	38.20	22.10	43.25	17.24
36	1.60	1.25	38.70	17.60	41.22	17.29
37	1.62	1.26	41.00	-1.20	41.45	17.35
38	1.64	1.24	43.30	2.10	41.87	17.40
39	1.66	1.27	44.10	49.50	41.79	17.44
40	1.68	1.31	44.90	76.00	41.11	17.47
41	1.70	1.33	45.30	102.60	40.62	17.49
42	1.72	1.34	45.60	67.80	40.14	17.50
43	1.74	1.37	45.30	96.50	39.70	17.49
44	1.76	1.38	44.60	109.90	39.22	17.48
45	1.78	1.37	43.30	112.20	39.29	17.44
46	1.80	1.30	41.60	145.90	39.97	17.40
47	1.82	1.23	41.10	172.00	40.55	17.36
48	1.84	1.25	40.40	183.40	39.41	17.21

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	1.22	27.70	244.60	38.10	17.24
50	1.88	1.39	41.80	264.00	37.96	17.24
51	1.90	1.24	40.20	286.90	39.37	17.34
52	1.92	1.20	37.90	246.50	40.52	17.26
53	1.94	1.17	35.80	243.30	40.63	17.18
54	1.96	1.14	33.50	276.40	40.88	17.12
55	1.98	1.10	33.50	302.30	41.51	17.09
56	2.00	1.07	34.40	326.00	42.09	17.06
57	2.02	1.05	31.80	333.20	41.92	17.01
58	2.04	1.05	29.20	331.50	40.55	16.91
59	2.06	1.08	26.50	339.20	38.68	16.82
60	2.08	1.12	24.70	319.10	36.80	16.75
61	2.10	1.15	23.40	295.10	35.36	16.69
62	2.12	1.17	22.40	299.50	34.52	16.67
63	2.14	1.19	23.00	275.40	34.31	16.68
64	2.16	1.20	24.10	275.90	35.42	16.76
65	2.18	1.16	27.40	190.70	37.20	16.82
66	2.20	1.09	27.80	242.70	39.47	16.87
67	2.22	1.04	29.00	280.10	41.12	16.87
68	2.24	1.00	28.70	316.20	42.02	16.87
69	2.26	1.00	28.50	323.40	42.34	16.86
70	2.28	0.99	28.20	326.00	41.61	16.81
71	2.30	1.00	24.80	326.00	40.89	16.75
72	2.32	0.99	24.30	351.30	39.56	16.67
73	2.34	1.02	22.90	358.20	37.29	16.63
74	2.36	1.16	21.20	340.50	34.59	16.59
75	2.38	1.22	20.50	330.60	32.89	16.61
76	2.40	1.24	23.00	328.80	32.88	16.68
77	2.42	1.24	24.70	367.10	33.21	16.74
78	2.44	1.24	23.90	395.30	33.01	16.72
79	2.46	1.23	22.00	409.60	32.59	16.66
80	2.48	1.21	21.30	428.00	32.30	16.62
81	2.50	1.21	21.20	435.60	32.02	16.53
82	2.52	1.16	17.80	446.00	31.44	16.43
83	2.54	1.16	16.40	442.10	30.63	16.30
84	2.56	1.16	15.50	435.50	30.18	16.23
85	2.58	1.14	14.90	441.90	30.07	16.19
86	2.60	1.14	14.90	435.70	30.39	16.18
87	2.62	1.12	15.40	448.30	30.62	16.17
88	2.64	1.10	14.60	458.80	30.83	16.16
89	2.66	1.09	14.60	471.60	30.88	16.13
90	2.68	1.08	14.50	479.40	30.94	16.13
91	2.70	1.09	14.50	491.80	30.94	16.12
92	2.72	1.08	14.40	509.00	30.84	16.10
93	2.74	1.07	13.90	512.60	31.00	16.08
94	2.76	1.04	13.90	528.80	31.09	16.05
95	2.78	1.04	13.30	534.10	30.83	16.02
96	2.80	1.07	12.90	537.00	29.91	16.02

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	1.14	13.40	546.80	28.45	16.02
98	2.84	1.22	12.90	536.90	27.26	16.08
99	2.86	1.28	13.90	510.20	26.83	16.17
100	2.88	1.31	16.10	517.10	26.99	16.29
101	2.90	1.34	17.20	516.00	27.50	16.39
102	2.92	1.33	18.00	502.60	28.09	16.43
103	2.94	1.28	18.30	505.20	29.20	16.48
104	2.96	1.24	19.70	525.40	29.71	16.47
105	2.98	1.24	17.90	574.50	29.42	16.44
106	3.00	1.27	16.80	564.70	28.64	16.38
107	3.02	1.28	17.10	558.90	28.35	16.36
108	3.04	1.26	16.70	562.40	28.51	16.36
109	3.06	1.25	16.90	570.40	24.49	16.20
110	3.08	1.71	9.10	416.00	22.35	16.19
111	3.10	1.65	15.20	431.10	20.98	16.18
112	3.12	1.55	16.10	447.30	24.50	16.49
113	3.14	1.45	22.20	486.10	27.46	16.64
114	3.16	1.35	24.00	536.50	29.83	16.74
115	3.18	1.31	22.70	575.80	29.72	16.70
116	3.20	1.40	20.30	578.20	28.81	16.62
117	3.22	1.36	19.10	567.20	27.35	16.51
118	3.24	1.41	16.80	428.00	26.60	16.46
119	3.26	1.48	17.70	443.70	25.88	16.45
120	3.28	1.49	18.40	451.40	26.25	16.51
121	3.30	1.43	19.50	425.60	27.68	16.55
122	3.32	1.31	20.10	408.90	30.68	16.63
123	3.34	1.18	24.40	461.70	31.70	16.55
124	3.36	1.17	16.20	607.20	30.97	16.43
125	3.38	1.22	14.20	588.00	28.37	16.23
126	3.40	1.27	15.40	571.50	28.11	16.24
127	3.42	1.22	16.30	565.50	28.81	16.31
128	3.44	1.21	17.20	585.10	29.32	16.37
129	3.46	1.27	18.00	593.10	28.05	16.36
130	3.48	1.39	15.40	532.70	26.09	16.39
131	3.50	1.55	16.90	488.70	23.47	16.41
132	3.52	1.78	17.50	457.80	20.04	16.58
133	3.54	2.44	19.70	298.90	18.84	16.69
134	3.56	2.15	20.70	40.00	20.56	16.87
135	3.58	1.73	27.70	55.20	25.88	16.94
136	3.60	1.39	28.40	311.30	32.06	17.00
137	3.62	1.19	29.80	431.40	33.85	16.91
138	3.64	1.31	23.70	488.70	30.00	16.83
139	3.66	1.76	20.60	513.80	21.52	16.72
140	3.68	2.55	17.30	496.20	15.69	16.82
141	3.70	3.32	23.00	-33.10	12.64	16.96
142	3.72	3.56	24.20	-59.60	12.12	17.18
143	3.74	3.57	28.30	-59.50	12.83	17.28
144	3.76	3.26	30.50	-54.30	14.65	17.33

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	2.79	30.30	-30.90	16.41	17.20
146	3.80	2.44	22.10	-25.40	17.68	16.98
147	3.82	2.24	18.80	27.50	18.47	16.79
148	3.84	2.12	21.10	32.90	19.38	16.69
149	3.86	1.98	18.40	92.70	20.16	16.66
150	3.88	1.97	18.00	96.80	18.95	16.56
151	3.90	2.26	16.00	28.30	17.42	16.60
152	3.92	2.51	18.80	-9.80	17.16	16.79
153	3.94	2.46	26.00	-60.90	18.09	16.94
154	3.96	2.30	24.50	-54.10	19.36	17.03
155	3.98	2.32	25.00	-45.60	18.84	17.03
156	4.00	2.62	25.70	-25.00	17.57	16.99
157	4.02	2.61	20.80	-30.30	16.65	16.88
158	4.04	2.38	18.40	-8.50	17.60	16.79
159	4.06	2.09	22.10	27.20	20.00	16.78
160	4.08	1.88	22.60	101.60	20.94	16.77
161	4.10	2.07	18.50	269.80	18.92	16.71
162	4.12	2.48	17.50	190.90	15.86	16.56
163	4.14	2.58	14.10	-27.40	14.97	16.63
164	4.16	2.58	20.30	-10.80	15.15	16.71
165	4.18	2.63	21.10	-10.60	15.33	16.81
166	4.20	2.73	18.70	2.70	13.81	16.80
167	4.22	3.20	18.60	6.00	12.37	16.82
168	4.24	3.35	20.20	-21.80	11.03	16.86
169	4.26	3.60	19.20	-56.50	11.13	17.00
170	4.28	3.56	25.40	-20.70	12.00	17.04
171	4.30	2.94	23.20	44.80	13.18	17.07
172	4.32	3.05	22.40	52.80	14.21	17.08
173	4.34	3.08	27.20	55.20	14.08	17.20
174	4.36	3.34	30.00	61.20	13.64	17.35
175	4.38	3.72	31.20	2.70	12.55	17.38
176	4.40	3.81	27.80	-49.30	12.06	17.46
177	4.42	3.92	34.60	-61.20	12.44	17.58
178	4.44	3.94	41.20	-54.60	13.31	17.76
179	4.46	3.94	44.30	-61.20	13.92	17.86
180	4.48	3.95	45.60	-59.10	14.22	17.82
181	4.50	3.61	37.70	-54.20	14.73	17.73
182	4.52	3.35	37.40	-59.00	15.41	17.59
183	4.54	3.13	34.20	-57.20	16.15	17.60
184	4.56	3.30	40.00	-54.80	16.24	17.69
185	4.58	3.62	45.90	-58.30	15.78	17.81
186	4.60	3.73	43.90	-63.60	15.76	17.85
187	4.62	3.46	44.00	-66.80	16.14	17.85
188	4.64	3.43	46.60	-61.50	16.44	17.83
189	4.66	3.52	42.40	-56.10	15.31	17.72
190	4.68	3.64	31.70	-46.30	13.54	17.52
191	4.70	3.76	26.60	-48.60	12.13	17.34
192	4.72	3.85	27.00	-46.80	11.24	17.26

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	4.03	24.90	-48.70	11.41	17.23
194	4.76	3.54	24.90	-51.90	12.86	17.18
195	4.78	2.70	26.10	-41.70	15.36	16.98
196	4.80	2.16	17.70	17.70	20.35	16.94
197	4.82	1.75	27.70	162.90	24.63	17.03
198	4.84	1.84	35.80	184.50	24.04	17.20
199	4.86	2.55	28.20	302.10	20.03	17.16
200	4.88	2.70	20.40	107.20	18.42	17.15
201	4.90	2.36	33.40	-15.30	20.90	17.24
202	4.92	2.04	36.60	15.60	26.13	17.35
203	4.94	1.67	35.00	110.10	29.89	17.39
204	4.96	1.69	41.50	248.80	28.17	17.33
205	4.98	2.17	29.00	347.60	24.65	17.33
206	5.00	2.40	31.50	144.90	22.41	17.31
207	5.02	2.22	37.00	9.60	23.73	17.39
208	5.04	2.06	36.70	37.90	26.16	17.46
209	5.06	2.01	40.40	43.20	26.48	17.54
210	5.08	2.31	44.80	83.30	24.21	17.60
211	5.10	2.73	39.40	47.10	20.86	17.71
212	5.12	3.26	45.80	10.00	17.59	17.70
213	5.14	3.58	37.20	-49.10	15.80	17.70
214	5.16	3.66	35.80	-41.10	15.08	17.60
215	5.18	3.35	35.70	-25.90	16.29	17.43
216	5.20	2.41	26.00	-15.90	17.61	17.21
217	5.22	2.48	22.60	15.60	18.72	17.03
218	5.24	2.50	26.20	50.10	19.75	17.13
219	5.26	2.28	33.10	46.20	21.43	17.24
220	5.28	2.16	31.60	155.30	23.31	17.33
221	5.30	2.22	35.50	109.90	23.37	17.35
222	5.32	2.29	34.90	144.60	23.52	17.34
223	5.34	2.11	30.30	9.70	24.26	17.31
224	5.36	1.97	34.10	154.30	23.70	17.26
225	5.38	2.32	30.70	202.40	21.86	17.36
226	5.40	2.81	35.90	186.70	17.99	17.39
227	5.42	3.48	30.50	-23.10	16.21	17.43
228	5.44	3.28	30.20	-26.10	15.53	17.34
229	5.46	2.95	28.70	-17.30	16.63	17.28
230	5.48	2.76	28.00	58.30	17.67	17.25
231	5.50	2.73	29.40	69.00	17.89	17.34
232	5.52	3.12	35.70	56.00	17.39	17.32
233	5.54	2.94	25.60	-13.10	17.81	17.35
234	5.56	2.66	32.20	-7.50	19.28	17.25
235	5.58	2.28	30.50	-0.20	22.15	17.22
236	5.60	1.95	27.50	-3.10	27.42	17.08
237	5.62	1.14	28.60	54.70	36.86	17.04
238	5.64	0.90	36.20	131.30	47.49	16.89
239	5.66	0.84	24.80	258.80	48.89	16.68
240	5.68	0.84	16.20	261.70	44.45	16.35

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.88	16.60	263.90	40.95	16.23
242	5.72	0.99	18.50	267.80	36.42	16.42
243	5.74	1.38	21.80	247.40	32.86	16.63
244	5.76	1.48	24.30	194.40	28.54	16.80
245	5.78	1.80	24.50	250.30	24.94	16.96
246	5.80	2.38	27.40	-12.90	21.73	17.15
247	5.82	2.74	32.70	-47.80	20.04	17.30
248	5.84	2.75	32.00	-50.80	20.43	17.37
249	5.86	2.44	33.20	-53.40	22.87	17.42
250	5.88	2.07	39.80	-42.00	26.53	17.46
251	5.90	1.85	40.60	125.30	27.09	17.52
252	5.92	2.41	39.60	191.60	23.36	17.62
253	5.94	3.31	43.60	-34.10	19.97	17.76
254	5.96	3.47	47.80	-62.30	18.96	17.89
255	5.98	3.31	50.70	-61.20	19.26	17.90
256	6.00	3.22	45.30	-41.90	18.94	17.88
257	6.02	3.57	45.40	34.50	17.92	17.94
258	6.04	4.00	54.70	51.80	16.51	18.01
259	6.06	4.26	49.40	-34.40	15.45	18.07
260	6.08	4.51	49.90	-31.90	14.08	18.06
261	6.10	4.93	49.50	-9.70	12.46	18.08
262	6.12	5.67	47.00	25.60	11.11	18.12
263	6.14	6.04	50.30	-52.60	10.28	18.17
264	6.16	6.14	52.40	-47.20	9.85	18.17
265	6.18	6.23	45.70	-43.40	9.19	18.14
266	6.20	6.71	44.80	-46.50	8.42	18.11
267	6.22	7.03	46.50	-51.00	7.75	18.14
268	6.24	7.49	46.90	-61.50	7.64	18.31
269	6.26	8.11	63.50	-66.40	7.15	18.41
270	6.28	8.68	56.40	-67.50	6.34	18.45
271	6.30	9.47	48.60	-68.60	4.76	18.37
272	6.32	11.21	45.50	-64.10	3.76	18.27
273	6.34	10.85	41.50	-62.40	3.47	18.22
274	6.36	9.95	41.80	-65.80	3.87	18.09
275	6.38	8.78	35.00	-49.60	4.50	17.90
276	6.40	7.55	27.50	-22.00	5.00	17.75
277	6.42	6.16	33.40	11.90	8.90	17.73
278	6.44	3.60	41.90	45.90	14.49	17.82
279	6.46	2.87	49.00	60.90	20.93	17.84
280	6.48	2.87	49.00	60.90	27.01	18.08
281	6.50	2.23	83.10	75.70	32.47	18.25
282	6.52	1.92	85.80	85.10	39.85	18.34
283	6.54	1.67	82.30	189.90	44.85	18.21
284	6.56	1.25	70.20	311.80	48.78	18.03
285	6.58	1.17	62.50	331.60	51.65	17.85
286	6.60	1.15	58.80	334.20	50.45	17.67
287	6.62	1.12	44.10	365.40	47.98	17.44
288	6.64	1.11	33.00	360.10	44.79	17.16

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	1.11	29.40	336.10	42.12	16.96
290	6.68	1.16	27.50	349.00	39.35	16.83
291	6.70	1.24	22.30	321.90	37.70	16.78
292	6.72	1.25	25.00	243.00	37.63	17.12
293	6.74	1.62	49.40	135.20	39.00	17.38
294	6.76	1.50	45.80	-13.10	41.22	17.61
295	6.78	1.33	50.20	134.20	43.95	17.54
296	6.80	1.22	45.80	176.00	46.30	17.51
297	6.82	1.20	45.00	185.50	47.07	17.44
298	6.84	1.17	43.80	208.20	47.55	17.39
299	6.86	1.12	40.50	211.50	47.42	17.31
300	6.88	1.11	37.10	282.00	46.23	17.16
301	6.90	1.11	30.20	278.00	44.58	17.00
302	6.92	1.08	26.40	250.80	42.84	16.83
303	6.94	1.09	24.60	304.10	41.14	16.69
304	6.96	1.12	20.60	308.60	39.87	16.59
305	6.98	1.10	20.40	274.10	39.09	16.61
306	7.00	1.19	24.80	313.60	36.63	16.69
307	7.02	1.47	23.20	290.50	32.26	16.85
308	7.04	1.91	26.30	160.80	27.69	17.06
309	7.06	2.37	33.10	30.70	26.77	17.34
310	7.08	2.26	41.90	0.10	27.93	17.50
311	7.10	2.01	41.60	16.80	30.73	17.46
312	7.12	1.68	32.80	97.20	34.76	17.36
313	7.14	1.38	38.40	135.70	38.97	17.23
314	7.16	1.21	34.70	244.20	41.60	17.10
315	7.18	1.20	25.20	272.20	40.92	16.92
316	7.20	1.22	25.10	273.20	39.38	16.80
317	7.22	1.23	25.80	256.20	39.11	16.83
318	7.24	1.26	26.80	309.50	37.80	16.89
319	7.26	1.44	27.70	280.10	36.12	16.98
320	7.28	1.57	30.10	127.70	36.47	17.06
321	7.30	1.36	32.50	120.70	39.24	17.06
322	7.32	1.14	30.50	146.30	41.66	16.88
323	7.34	1.08	19.60	325.60	40.94	16.62
324	7.36	1.14	17.10	280.70	38.33	16.40
325	7.38	1.16	18.50	233.40	39.63	16.43
326	7.40	1.00	21.60	234.30	42.03	16.49
327	7.42	0.99	21.30	296.20	43.58	16.47
328	7.44	1.00	18.30	311.00	42.74	16.43
329	7.46	1.03	19.30	308.10	41.49	16.39
330	7.48	1.05	18.60	310.90	41.25	16.42
331	7.50	1.06	19.70	292.30	41.82	16.43
332	7.52	0.99	20.10	299.50	42.50	16.45
333	7.54	1.01	19.70	303.00	42.32	16.43
334	7.56	1.06	18.60	310.40	40.30	16.40
335	7.58	1.15	17.60	280.30	36.98	16.40
336	7.60	1.36	18.20	240.60	33.89	16.53

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	1.59	22.20	147.60	33.18	16.69
338	7.64	1.48	25.10	112.50	34.80	16.75
339	7.66	1.24	22.50	160.40	37.95	16.71
340	7.68	1.15	22.00	246.10	40.13	16.63
341	7.70	1.15	22.00	246.10	39.62	16.55
342	7.72	1.19	18.20	273.60	37.39	16.51
343	7.74	1.34	19.20	269.10	35.98	16.53
344	7.76	1.34	22.10	212.10	36.97	16.66
345	7.78	1.23	24.80	201.30	38.77	16.61
346	7.80	1.09	18.00	314.90	40.08	16.48
347	7.82	1.06	16.60	337.20	39.84	16.28
348	7.84	1.04	15.80	322.30	39.22	16.24
349	7.86	1.12	16.20	326.90	37.44	16.27
350	7.88	1.26	17.00	355.00	35.17	16.34
351	7.90	1.37	17.30	310.10	34.77	16.53
352	7.92	1.41	24.00	145.50	36.16	16.71
353	7.94	1.34	26.60	138.10	36.99	16.77
354	7.96	1.36	21.00	200.90	39.36	16.73
355	7.98	1.10	23.60	178.80	42.17	16.58
356	8.00	0.89	20.40	289.40	47.01	16.43
357	8.02	0.83	16.20	330.70	47.48	16.22
358	8.04	0.88	14.70	340.70	45.52	16.08
359	8.06	0.92	14.40	334.90	44.16	16.06
360	8.08	0.91	14.90	315.40	44.45	16.10
361	8.10	0.89	16.10	357.20	44.68	16.13
362	8.12	0.92	15.50	372.50	42.91	16.13
363	8.14	1.04	14.40	377.00	37.82	16.18
364	8.16	1.39	15.70	307.20	34.26	16.20
365	8.18	1.36	14.70	199.80	33.61	16.38
366	8.20	1.34	20.60	232.30	35.80	16.58
367	8.22	1.35	25.70	285.60	37.26	16.70
368	8.24	1.34	21.60	192.90	38.81	16.71
369	8.26	1.18	22.10	223.80	41.37	16.59
370	8.28	0.96	20.70	316.40	44.17	16.51
371	8.30	1.00	19.20	333.60	44.82	16.46
372	8.32	1.07	20.20	354.00	43.60	16.50
373	8.34	1.09	21.70	318.00	43.06	16.58
374	8.36	1.12	22.90	357.80	39.24	16.61
375	8.38	1.46	19.60	427.40	37.17	16.56
376	8.40	1.29	18.20	201.30	31.42	16.59
377	8.42	1.94	20.80	257.20	29.22	16.65
378	8.44	1.94	20.80	257.20	23.57	16.91
379	8.46	3.01	26.70	159.90	22.17	17.16
380	8.48	2.94	34.10	88.20	20.44	17.53
381	8.50	3.56	44.70	31.10	19.72	17.94
382	8.52	4.68	63.90	-51.90	19.25	18.32
383	8.54	4.72	81.00	-76.50	19.54	18.52
384	8.56	4.31	76.20	-77.30	22.46	18.61

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	3.57	90.40	-47.10	27.17	18.64
386	8.60	2.82	100.30	-63.80	35.73	18.71
387	8.62	2.02	118.50	-64.90	45.24	18.77
388	8.64	1.85	132.40	-53.20	52.82	18.81
389	8.66	1.84	133.20	3.40	53.28	18.83
390	8.68	2.00	125.30	-13.00	51.01	18.84
391	8.70	2.15	126.60	-32.80	48.05	18.85
392	8.72	2.30	128.30	-58.40	46.65	18.89
393	8.74	2.33	132.70	-60.70	46.40	18.90
394	8.76	2.24	129.60	-62.60	46.98	18.88
395	8.78	2.16	123.20	-63.50	47.58	18.88
396	8.80	2.23	132.70	-53.70	46.62	18.93
397	8.82	2.51	141.00	-44.50	43.77	19.02
398	8.84	2.92	143.20	-55.80	41.25	19.09
399	8.86	2.94	144.70	-64.10	40.40	19.12
400	8.88	2.80	146.60	-67.50	41.00	19.14
401	8.90	2.87	152.60	-65.60	41.11	19.18
402	8.92	3.06	159.40	-62.10	37.53	19.29
403	8.94	4.07	169.00	-61.00	32.03	19.43
404	8.96	5.23	177.80	-65.50	28.37	19.55
405	8.98	5.23	184.70	-71.20	26.41	19.65
406	9.00	5.66	196.40	-69.80	25.78	19.79
407	9.02	6.52	235.20	-68.60	24.38	19.90
408	9.04	6.95	226.70	-72.70	23.37	19.98
409	9.06	7.03	228.20	-73.00	24.34	19.97
410	9.08	5.78	240.60	-72.30	27.03	19.97
411	9.10	5.17	248.20	-72.00	31.07	19.96
412	9.12	4.76	253.60	-72.10	33.84	19.94
413	9.14	4.42	250.60	-72.10	35.47	19.91
414	9.16	4.37	243.30	-71.70	34.15	19.87
415	9.18	5.07	220.80	-65.60	31.08	19.86
416	9.20	5.74	225.40	-67.20	28.56	19.85
417	9.22	5.59	218.60	-66.50	29.31	19.84
418	9.24	4.60	218.80	-67.30	31.89	19.79
419	9.26	4.23	218.00	-69.30	34.17	19.73
420	9.28	4.38	206.80	-69.20	33.78	19.69
421	9.30	4.54	195.30	-71.90	31.39	19.66
422	9.32	5.09	191.20	-66.70	28.37	19.72
423	9.34	6.14	213.30	-58.10	23.24	19.84
424	9.36	8.54	212.80	-56.00	18.96	19.93
425	9.38	9.61	198.40	-62.50	14.55	19.99
426	9.40	12.28	199.60	-64.60	3.54	20.32
427	9.42	49.58	213.60	-55.50	0.33	20.52

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	6.42	119.45	17.56	101.89	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
2	6.44	119.74	17.76	101.99	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
3	6.46	120.04	17.95	102.09	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
4	6.48	120.35	18.15	102.20	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
5	6.50	120.65	18.34	102.30	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
6	6.52	120.95	18.54	102.41	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
7	6.54	121.25	18.74	102.52	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
8	6.56	121.56	18.93	102.63	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
9	6.58	121.87	19.13	102.74	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
10	6.60	122.18	19.33	102.85	0.95	0.074	1.38	0.053	1.00	1.00	0.053	No
11	6.62	122.50	19.52	102.97	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
12	6.64	122.82	19.72	103.10	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
13	6.66	123.14	19.91	103.23	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
14	6.68	123.47	20.11	103.36	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
15	6.70	123.79	20.31	103.48	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
16	6.72	124.11	20.50	103.61	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
17	6.74	124.44	20.70	103.74	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
18	6.76	124.77	20.90	103.87	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
19	6.78	125.10	21.09	104.00	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
20	6.80	125.43	21.29	104.14	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
21	6.82	125.76	21.48	104.28	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
22	6.84	126.10	21.68	104.42	0.95	0.075	1.38	0.054	1.00	1.00	0.054	No
23	6.86	126.43	21.88	104.56	0.95	0.075	1.38	0.054	1.00	1.00	0.054	No
24	6.88	126.77	22.07	104.70	0.95	0.075	1.38	0.054	1.00	1.00	0.054	No
25	6.90	127.11	22.27	104.84	0.95	0.075	1.38	0.054	1.00	1.00	0.054	No
26	6.92	127.45	22.46	104.98	0.95	0.075	1.38	0.054	1.00	1.00	0.054	No
27	6.94	127.79	22.66	105.12	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
28	6.96	128.12	22.86	105.27	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
29	6.98	128.46	23.05	105.41	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
30	7.00	128.80	23.25	105.55	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
31	7.02	129.14	23.45	105.70	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
32	7.04	129.48	23.64	105.84	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
33	7.06	129.83	23.84	105.99	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
34	7.08	130.17	24.03	106.14	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
35	7.10	130.52	24.23	106.28	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
36	7.12	130.86	24.43	106.43	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
37	7.14	131.21	24.62	106.58	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
38	7.16	131.56	24.82	106.74	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
39	7.18	131.90	25.02	106.89	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
40	7.20	132.25	25.21	107.04	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
41	7.22	132.60	25.41	107.20	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
42	7.24	132.95	25.60	107.35	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
43	7.26	133.30	25.80	107.50	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
44	7.28	133.65	26.00	107.66	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
45	7.30	134.00	26.19	107.81	0.95	0.076	1.38	0.056	1.00	1.00	0.056	No
46	7.32	134.35	26.39	107.96	0.95	0.076	1.38	0.056	1.00	1.00	0.056	No
47	7.34	134.70	26.59	108.11	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
48	7.36	135.04	26.78	108.26	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	7.38	135.39	26.98	108.41	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
50	7.40	135.73	27.17	108.56	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
51	7.42	136.08	27.37	108.71	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
52	7.44	136.42	27.57	108.86	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
53	7.46	136.77	27.76	109.00	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
54	7.48	137.11	27.96	109.15	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
55	7.50	137.45	28.15	109.30	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
56	7.52	137.79	28.35	109.44	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
57	7.54	138.13	28.55	109.58	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
58	7.56	138.47	28.74	109.73	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
59	7.58	138.81	28.94	109.87	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
60	7.60	139.14	29.14	110.01	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
61	7.62	139.48	29.33	110.14	0.94	0.078	1.38	0.056	1.00	1.00	0.056	No
62	7.64	139.81	29.53	110.28	0.94	0.078	1.38	0.056	1.00	1.00	0.056	No
63	7.66	140.14	29.72	110.42	0.94	0.078	1.38	0.056	1.00	1.00	0.056	No
64	7.68	140.48	29.92	110.56	0.94	0.078	1.38	0.056	1.00	1.00	0.056	No
65	7.70	140.81	30.12	110.70	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
66	7.72	141.15	30.31	110.84	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
67	7.74	141.49	30.51	110.98	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
68	7.76	141.83	30.71	111.12	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
69	7.78	142.16	30.90	111.26	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
70	7.80	142.50	31.10	111.40	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
71	7.82	142.83	31.29	111.54	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
72	7.84	143.17	31.49	111.68	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
73	7.86	143.50	31.69	111.81	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
74	7.88	143.83	31.88	111.95	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
75	7.90	144.16	32.08	112.09	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
76	7.92	144.50	32.27	112.22	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
77	7.94	144.83	32.47	112.36	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
78	7.96	145.17	32.67	112.50	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
79	7.98	145.50	32.86	112.64	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
80	8.00	145.83	33.06	112.77	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
81	8.02	146.16	33.26	112.91	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
82	8.04	146.49	33.45	113.04	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
83	8.06	146.82	33.65	113.17	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
84	8.08	147.14	33.84	113.30	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
85	8.10	147.47	34.04	113.43	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
86	8.12	147.79	34.24	113.55	0.94	0.079	1.38	0.058	1.00	1.00	0.058	No
87	8.14	148.11	34.43	113.68	0.94	0.079	1.38	0.058	1.00	1.00	0.058	No
88	8.16	148.44	34.63	113.81	0.94	0.079	1.38	0.058	1.00	1.00	0.058	No
89	8.18	148.76	34.83	113.93	0.93	0.079	1.38	0.058	1.00	1.00	0.058	No
90	8.20	149.08	35.02	114.06	0.93	0.079	1.38	0.058	1.00	1.00	0.058	No
91	8.22	149.40	35.22	114.19	0.93	0.079	1.38	0.058	1.00	1.00	0.058	No
92	8.24	149.73	35.41	114.31	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
93	8.26	150.05	35.61	114.44	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
94	8.28	150.37	35.81	114.56	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
95	8.30	150.69	36.00	114.69	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
96	8.32	151.01	36.20	114.81	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	8.34	151.33	36.40	114.93	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
98	8.36	151.65	36.59	115.06	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
99	8.38	151.97	36.79	115.19	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
100	8.40	152.30	36.98	115.32	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
101	8.42	152.63	37.18	115.45	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
102	8.44	152.96	37.38	115.58	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
103	8.46	153.29	37.57	115.71	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
104	8.48	153.62	37.77	115.85	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
105	8.50	153.94	37.96	115.98	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
106	8.52	154.27	38.16	116.11	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
107	8.54	154.60	38.36	116.24	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
108	8.56	154.93	38.55	116.37	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
109	8.58	155.25	38.75	116.50	0.93	0.080	1.38	0.059	1.00	1.00	0.059	No
110	8.60	155.57	38.95	116.63	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
111	8.62	155.90	39.14	116.76	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
112	8.64	156.23	39.34	116.89	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
113	8.66	156.56	39.53	117.03	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
114	8.68	156.90	39.73	117.16	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
115	8.70	157.23	39.93	117.30	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
116	8.72	157.56	40.12	117.44	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
117	8.74	157.89	40.32	117.57	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
118	8.76	158.22	40.52	117.71	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
119	8.78	158.55	40.71	117.84	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
120	8.80	158.88	40.91	117.97	0.93	0.081	1.38	0.059	1.00	1.00	2.000	Yes
121	8.82	159.21	41.10	118.11	0.93	0.081	1.38	0.059	1.00	1.00	2.000	Yes
122	8.84	159.54	41.30	118.24	0.93	0.081	1.38	0.059	1.00	1.00	2.000	Yes
123	8.86	159.87	41.50	118.38	0.93	0.081	1.38	0.059	1.00	1.00	2.000	Yes
124	8.88	160.20	41.69	118.51	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
125	8.90	160.53	41.89	118.64	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
126	8.92	160.85	42.08	118.77	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
127	8.94	161.18	42.28	118.90	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
128	8.96	161.51	42.48	119.03	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
129	8.98	161.83	42.67	119.16	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
130	9.00	162.16	42.87	119.29	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
131	9.02	162.49	43.07	119.42	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
132	9.04	162.82	43.26	119.56	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
133	9.06	163.15	43.46	119.70	0.92	0.082	1.38	0.059	1.00	1.00	2.000	Yes
134	9.08	163.49	43.65	119.84	0.92	0.082	1.38	0.059	1.00	1.00	2.000	Yes
135	9.10	163.83	43.85	119.98	0.92	0.082	1.38	0.059	1.00	1.00	2.000	Yes
136	9.12	164.17	44.05	120.12	0.92	0.082	1.38	0.059	1.00	1.00	2.000	Yes
137	9.14	164.51	44.24	120.27	0.92	0.082	1.38	0.059	1.00	1.00	2.000	Yes
138	9.16	164.85	44.44	120.41	0.92	0.082	1.38	0.060	1.00	1.00	2.000	Yes
139	9.18	165.18	44.64	120.54	0.92	0.082	1.38	0.060	1.00	1.00	2.000	Yes
140	9.20	165.52	44.83	120.68	0.92	0.082	1.38	0.060	1.00	1.00	2.000	Yes
141	9.22	165.86	45.03	120.83	0.92	0.082	1.38	0.060	1.00	1.00	2.000	Yes
142	9.24	166.20	45.22	120.97	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
143	9.26	166.54	45.42	121.12	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
144	9.28	166.89	45.62	121.27	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	9.30	167.24	45.81	121.42	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
146	9.32	167.58	46.01	121.57	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
147	9.34	167.91	46.21	121.71	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
148	9.36	168.24	46.40	121.84	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
149	9.38	168.58	46.60	121.98	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
150	9.40	168.91	46.79	122.12	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
151	9.42	169.24	46.99	122.25	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
152	9.44	169.58	47.19	122.39	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
153	9.46	169.92	47.38	122.53	0.92	0.082	1.38	0.060	1.00	1.00	0.060	No
154	9.48	170.26	47.58	122.68	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
155	9.50	170.60	47.77	122.82	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
156	9.52	170.94	47.97	122.97	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
157	9.54	171.27	48.17	123.11	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
158	9.56	171.61	48.36	123.25	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
159	9.58	171.95	48.56	123.39	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
160	9.60	172.28	48.76	123.52	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
161	9.62	172.61	48.95	123.66	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
162	9.64	172.95	49.15	123.80	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
163	9.66	173.28	49.34	123.93	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
164	9.68	173.61	49.54	124.07	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
165	9.70	173.95	49.74	124.21	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
166	9.72	174.28	49.93	124.35	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
167	9.74	174.62	50.13	124.49	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
168	9.76	174.96	50.33	124.63	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
169	9.78	175.30	50.52	124.78	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
170	9.80	175.64	50.72	124.92	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
171	9.82	175.98	50.91	125.07	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
172	9.84	176.32	51.11	125.21	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
173	9.86	176.67	51.31	125.36	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
174	9.88	177.01	51.50	125.51	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
175	9.90	177.36	51.70	125.66	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
176	9.92	177.71	51.89	125.82	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
177	9.94	178.06	52.09	125.97	0.91	0.083	1.38	0.061	1.00	1.00	0.061	No
178	9.96	178.42	52.29	126.13	0.91	0.083	1.38	0.061	1.00	1.00	0.061	No
179	9.98	178.77	52.48	126.29	0.91	0.083	1.38	0.061	1.00	1.00	0.061	No
180	10.00	179.13	52.68	126.45	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
181	10.02	179.49	52.88	126.61	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
182	10.04	179.84	53.07	126.76	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
183	10.06	180.19	53.27	126.92	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
184	10.08	180.54	53.46	127.08	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
185	10.10	180.90	53.66	127.24	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
186	10.12	181.26	53.86	127.40	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
187	10.14	181.61	54.05	127.56	0.90	0.083	1.38	0.061	1.00	1.00	0.061	No
188	10.16	181.97	54.25	127.72	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
189	10.18	182.32	54.45	127.88	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
190	10.20	182.67	54.64	128.03	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
191	10.22	183.02	54.84	128.18	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
192	10.24	183.37	55.03	128.33	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	10.26	183.71	55.23	128.48	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
194	10.28	184.05	55.43	128.63	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
195	10.30	184.39	55.62	128.77	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
196	10.32	184.73	55.82	128.91	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
197	10.34	185.07	56.02	129.06	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
198	10.36	185.42	56.21	129.21	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
199	10.38	185.76	56.41	129.35	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
200	10.40	186.10	56.60	129.50	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
201	10.42	186.45	56.80	129.65	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
202	10.44	186.80	57.00	129.80	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
203	10.46	187.14	57.19	129.95	0.90	0.084	1.38	0.061	1.00	1.00	0.061	No
204	10.48	187.49	57.39	130.10	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
205	10.50	187.84	57.58	130.25	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
206	10.52	188.18	57.78	130.40	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
207	10.54	188.53	57.98	130.55	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
208	10.56	188.88	58.17	130.71	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
209	10.58	189.23	58.37	130.86	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
210	10.60	189.58	58.57	131.02	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
211	10.62	189.94	58.76	131.18	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
212	10.64	190.29	58.96	131.33	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
213	10.66	190.64	59.15	131.49	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
214	10.68	191.00	59.35	131.65	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
215	10.70	191.35	59.55	131.80	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
216	10.72	191.69	59.74	131.95	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
217	10.74	192.03	59.94	132.09	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
218	10.76	192.37	60.14	132.24	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
219	10.78	192.72	60.33	132.39	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
220	10.80	193.06	60.53	132.54	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
221	10.82	193.41	60.72	132.69	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
222	10.84	193.76	60.92	132.84	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
223	10.86	194.10	61.12	132.99	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
224	10.88	194.45	61.31	133.14	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
225	10.90	194.80	61.51	133.29	0.89	0.084	1.38	0.061	1.00	1.00	0.061	No
226	10.92	195.14	61.70	133.44	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
227	10.94	195.49	61.90	133.59	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
228	10.96	195.84	62.10	133.74	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
229	10.98	196.19	62.29	133.89	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
230	11.00	196.53	62.49	134.04	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
231	11.02	196.88	62.69	134.19	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
232	11.04	197.22	62.88	134.34	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
233	11.06	197.57	63.08	134.49	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
234	11.08	197.92	63.27	134.64	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
235	11.10	198.26	63.47	134.79	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
236	11.12	198.60	63.67	134.94	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
237	11.14	198.94	63.86	135.08	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
238	11.16	199.28	64.06	135.22	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
239	11.18	199.61	64.26	135.36	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
240	11.20	199.94	64.45	135.49	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	11.22	200.27	64.65	135.62	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
242	11.24	200.59	64.84	135.75	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
243	11.26	200.93	65.04	135.89	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
244	11.28	201.26	65.24	136.03	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
245	11.30	201.60	65.43	136.17	0.88	0.084	1.38	0.061	1.00	1.00	2.000	Yes
246	11.32	201.95	65.63	136.32	0.87	0.084	1.38	0.061	1.00	1.00	2.000	Yes
247	11.34	202.29	65.83	136.47	0.87	0.084	1.38	0.061	1.00	1.00	2.000	Yes
248	11.36	202.64	66.02	136.62	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
249	11.38	202.99	66.22	136.77	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
250	11.40	203.34	66.41	136.92	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
251	11.42	203.69	66.61	137.08	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
252	11.44	204.04	66.81	137.23	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
253	11.46	204.39	67.00	137.39	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
254	11.48	204.75	67.20	137.55	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
255	11.50	205.11	67.39	137.72	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
256	11.52	205.47	67.59	137.88	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
257	11.54	205.83	67.79	138.04	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
258	11.56	206.19	67.98	138.20	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
259	11.58	206.55	68.18	138.37	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
260	11.60	206.91	68.38	138.53	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
261	11.62	207.27	68.57	138.70	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
262	11.64	207.63	68.77	138.87	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
263	11.66	208.00	68.96	139.03	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
264	11.68	208.36	69.16	139.20	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
265	11.70	208.72	69.36	139.37	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
266	11.72	209.08	69.55	139.53	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
267	11.74	209.45	69.75	139.70	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
268	11.76	209.81	69.95	139.87	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
269	11.78	210.18	70.14	140.04	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
270	11.80	210.55	70.34	140.21	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
271	11.82	210.92	70.53	140.38	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
272	11.84	211.28	70.73	140.55	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
273	11.86	211.65	70.93	140.72	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
274	11.88	212.01	71.12	140.89	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
275	11.90	212.37	71.32	141.05	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
276	11.92	212.72	71.51	141.21	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
277	11.94	213.08	71.71	141.37	0.86	0.084	1.38	0.061	1.00	1.00	2.000	Yes
278	11.96	213.43	71.91	141.53	0.86	0.084	1.38	0.061	1.00	1.00	2.000	Yes
279	11.98	213.79	72.10	141.69	0.86	0.084	1.38	0.061	1.00	1.00	2.000	Yes
280	12.00	214.15	72.30	141.85	0.86	0.084	1.38	0.061	1.00	1.00	2.000	Yes
281	12.02	214.52	72.50	142.02	0.86	0.084	1.38	0.061	1.00	1.00	2.000	Yes
282	12.04	214.88	72.69	142.19	0.86	0.084	1.38	0.061	1.00	1.00	2.000	Yes
283	12.06	215.25	72.89	142.36	0.85	0.084	1.38	0.061	1.00	1.00	2.000	Yes
284	12.08	215.61	73.08	142.52	0.85	0.084	1.38	0.061	1.00	1.00	2.000	Yes
285	12.10	215.97	73.28	142.69	0.85	0.084	1.38	0.061	1.00	1.00	2.000	Yes
286	12.12	216.32	73.48	142.84	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
287	12.14	216.67	73.67	143.00	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
288	12.16	217.01	73.87	143.14	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	12.18	217.35	74.07	143.29	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
290	12.20	217.69	74.26	143.43	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
291	12.22	218.02	74.46	143.57	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
292	12.24	218.37	74.65	143.71	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
293	12.26	218.71	74.85	143.86	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
294	12.28	219.07	75.05	144.02	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
295	12.30	219.42	75.24	144.17	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
296	12.32	219.77	75.44	144.33	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
297	12.34	220.12	75.64	144.48	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
298	12.36	220.46	75.83	144.63	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
299	12.38	220.81	76.03	144.78	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
300	12.40	221.15	76.22	144.93	0.84	0.084	1.38	0.061	1.00	1.00	0.061	No
301	12.42	221.49	76.42	145.07	0.84	0.084	1.38	0.061	1.00	1.00	0.061	No
302	12.44	221.83	76.62	145.21	0.84	0.084	1.38	0.061	1.00	1.00	0.061	No
303	12.46	222.16	76.81	145.35	0.84	0.084	1.38	0.061	1.00	1.00	0.061	No
304	12.48	222.49	77.01	145.49	0.84	0.084	1.38	0.061	1.00	1.00	0.061	No
305	12.50	222.83	77.20	145.62	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
306	12.52	223.16	77.40	145.76	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
307	12.54	223.50	77.60	145.90	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
308	12.56	223.84	77.79	146.05	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
309	12.58	224.19	77.99	146.20	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
310	12.60	224.54	78.19	146.35	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
311	12.62	224.88	78.38	146.50	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
312	12.64	225.23	78.58	146.65	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
313	12.66	225.58	78.77	146.80	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
314	12.68	225.92	78.97	146.95	0.84	0.084	1.38	0.061	1.00	1.00	2.000	Yes
315	12.70	226.26	79.17	147.09	0.84	0.084	1.38	0.061	1.00	1.00	0.061	No
316	12.72	226.59	79.36	147.23	0.84	0.084	1.38	0.061	1.00	1.00	0.061	No
317	12.74	226.93	79.56	147.37	0.83	0.084	1.38	0.061	1.00	1.00	0.061	No
318	12.76	227.27	79.76	147.51	0.83	0.084	1.38	0.061	1.00	1.00	0.061	No
319	12.78	227.61	79.95	147.66	0.83	0.084	1.38	0.061	1.00	1.00	0.061	No
320	12.80	227.95	80.15	147.80	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
321	12.82	228.29	80.34	147.95	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
322	12.84	228.63	80.54	148.09	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
323	12.86	228.96	80.74	148.22	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
324	12.88	229.29	80.93	148.35	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
325	12.90	229.62	81.13	148.49	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
326	12.92	229.95	81.32	148.62	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
327	12.94	230.28	81.52	148.75	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
328	12.96	230.60	81.72	148.89	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
329	12.98	230.93	81.91	149.02	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
330	13.00	231.26	82.11	149.15	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
331	13.02	231.59	82.31	149.28	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
332	13.04	231.92	82.50	149.42	0.83	0.083	1.38	0.061	1.00	1.00	0.061	No
333	13.06	232.25	82.70	149.55	0.82	0.083	1.38	0.061	1.00	1.00	0.061	No
334	13.08	232.57	82.89	149.68	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
335	13.10	232.90	83.09	149.81	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
336	13.12	233.23	83.29	149.95	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	13.14	233.57	83.48	150.08	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
338	13.16	233.90	83.68	150.22	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
339	13.18	234.24	83.88	150.36	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
340	13.20	234.57	84.07	150.50	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
341	13.22	234.90	84.27	150.63	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
342	13.24	235.23	84.46	150.77	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
343	13.26	235.56	84.66	150.90	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
344	13.28	235.89	84.86	151.04	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
345	13.30	236.23	85.05	151.17	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
346	13.32	236.56	85.25	151.31	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
347	13.34	236.88	85.45	151.44	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
348	13.36	237.21	85.64	151.56	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
349	13.38	237.53	85.84	151.69	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
350	13.40	237.86	86.03	151.82	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
351	13.42	238.19	86.23	151.96	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
352	13.44	238.52	86.43	152.10	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
353	13.46	238.86	86.62	152.24	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
354	13.48	239.19	86.82	152.37	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
355	13.50	239.52	87.01	152.51	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
356	13.52	239.85	87.21	152.64	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
357	13.54	240.18	87.41	152.77	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
358	13.56	240.50	87.60	152.90	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
359	13.58	240.82	87.80	153.02	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
360	13.60	241.14	88.00	153.15	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
361	13.62	241.46	88.19	153.27	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
362	13.64	241.79	88.39	153.40	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
363	13.66	242.11	88.58	153.53	0.81	0.083	1.38	0.060	1.00	1.00	0.060	No
364	13.68	242.44	88.78	153.65	0.80	0.083	1.38	0.060	1.00	1.00	0.060	No
365	13.70	242.76	88.98	153.79	0.80	0.083	1.38	0.060	1.00	1.00	0.060	No
366	13.72	243.09	89.17	153.92	0.80	0.082	1.38	0.060	1.00	1.00	0.060	No
367	13.74	243.43	89.37	154.06	0.80	0.082	1.38	0.060	1.00	1.00	0.060	No
368	13.76	243.76	89.57	154.20	0.80	0.082	1.38	0.060	1.00	1.00	0.060	No
369	13.78	244.09	89.76	154.33	0.80	0.082	1.38	0.060	1.00	1.00	0.060	No
370	13.80	244.42	89.96	154.47	0.80	0.082	1.38	0.060	1.00	1.00	0.060	No
371	13.82	244.75	90.15	154.60	0.80	0.082	1.38	0.060	1.00	1.00	0.060	No
372	13.84	245.08	90.35	154.73	0.80	0.082	1.38	0.060	1.00	1.00	0.060	No
373	13.86	245.42	90.55	154.87	0.80	0.082	1.38	0.060	1.00	1.00	2.000	Yes
374	13.88	245.75	90.74	155.00	0.80	0.082	1.38	0.060	1.00	1.00	2.000	Yes
375	13.90	246.08	90.94	155.14	0.80	0.082	1.38	0.060	1.00	1.00	2.000	Yes
376	13.92	246.41	91.13	155.28	0.80	0.082	1.38	0.060	1.00	1.00	2.000	Yes
377	13.94	246.74	91.33	155.41	0.80	0.082	1.38	0.060	1.00	1.00	2.000	Yes
378	13.96	247.08	91.53	155.55	0.80	0.082	1.38	0.060	1.00	1.00	2.000	Yes
379	13.98	247.42	91.72	155.70	0.79	0.082	1.38	0.060	1.00	1.00	2.000	Yes
380	14.00	247.78	91.92	155.86	0.79	0.082	1.38	0.060	1.00	1.00	2.000	Yes
381	14.02	248.13	92.12	156.02	0.79	0.082	1.38	0.060	1.00	1.00	2.000	Yes
382	14.04	248.50	92.31	156.19	0.79	0.082	1.38	0.060	1.00	1.00	0.060	No
383	14.06	248.87	92.51	156.36	0.79	0.082	1.38	0.060	1.00	1.00	2.000	Yes
384	14.08	249.24	92.70	156.54	0.79	0.082	1.38	0.060	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	14.10	249.62	92.90	156.72	0.79	0.082	1.38	0.060	1.00	1.00	2.000	Yes
386	14.12	249.99	93.10	156.89	0.79	0.082	1.38	0.059	1.00	1.00	2.000	Yes
387	14.14	250.37	93.29	157.07	0.79	0.082	1.38	0.059	1.00	1.00	2.000	Yes
388	14.16	250.74	93.49	157.25	0.79	0.082	1.38	0.059	1.00	1.00	2.000	Yes
389	14.18	251.12	93.69	157.43	0.79	0.082	1.38	0.059	1.00	1.00	0.059	No
390	14.20	251.50	93.88	157.61	0.79	0.082	1.38	0.059	1.00	1.00	0.059	No
391	14.22	251.87	94.08	157.79	0.79	0.082	1.38	0.059	1.00	1.00	0.059	No
392	14.24	252.25	94.27	157.98	0.79	0.082	1.38	0.059	1.00	1.00	0.059	No
393	14.26	252.63	94.47	158.16	0.79	0.082	1.38	0.059	1.00	1.00	0.059	No
394	14.28	253.01	94.67	158.34	0.78	0.082	1.38	0.059	1.00	1.00	0.059	No
395	14.30	253.38	94.86	158.52	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
396	14.32	253.76	95.06	158.70	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
397	14.34	254.14	95.26	158.89	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
398	14.36	254.52	95.45	159.07	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
399	14.38	254.91	95.65	159.26	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
400	14.40	255.29	95.84	159.45	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
401	14.42	255.67	96.04	159.63	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
402	14.44	256.06	96.24	159.82	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
403	14.46	256.45	96.43	160.01	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
404	14.48	256.84	96.63	160.21	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
405	14.50	257.23	96.82	160.41	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
406	14.52	257.63	97.02	160.61	0.78	0.081	1.38	0.059	1.00	1.00	2.000	Yes
407	14.54	258.02	97.22	160.81	0.78	0.081	1.38	0.059	1.00	1.00	2.000	Yes
408	14.56	258.42	97.41	161.01	0.78	0.081	1.38	0.059	1.00	1.00	2.000	Yes
409	14.58	258.82	97.61	161.21	0.77	0.081	1.38	0.059	1.00	1.00	2.000	Yes
410	14.60	259.22	97.81	161.42	0.77	0.081	1.38	0.059	1.00	1.00	2.000	Yes
411	14.62	259.62	98.00	161.62	0.77	0.081	1.38	0.059	1.00	1.00	2.000	Yes
412	14.64	260.02	98.20	161.82	0.77	0.081	1.38	0.059	1.00	1.00	2.000	Yes
413	14.66	260.42	98.39	162.03	0.77	0.081	1.38	0.059	1.00	1.00	2.000	Yes
414	14.68	260.82	98.59	162.23	0.77	0.081	1.38	0.059	1.00	1.00	0.059	No
415	14.70	261.21	98.79	162.43	0.77	0.081	1.38	0.059	1.00	1.00	0.059	No
416	14.72	261.61	98.98	162.63	0.77	0.081	1.38	0.059	1.00	1.00	0.059	No
417	14.74	262.01	99.18	162.83	0.77	0.080	1.38	0.058	1.00	1.00	0.058	No
418	14.76	262.40	99.38	163.03	0.77	0.080	1.38	0.058	1.00	1.00	0.058	No
419	14.78	262.80	99.57	163.23	0.77	0.080	1.38	0.058	1.00	1.00	0.058	No
420	14.80	263.19	99.77	163.42	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
421	14.82	263.59	99.96	163.62	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
422	14.84	263.98	100.16	163.82	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
423	14.86	264.38	100.36	164.02	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
424	14.88	264.77	100.55	164.22	0.76	0.080	1.38	0.058	1.00	1.00	2.000	Yes
425	14.90	265.17	100.75	164.43	0.76	0.080	1.38	0.058	1.00	1.00	2.000	Yes
426	14.92	265.58	100.94	164.64	0.76	0.080	1.38	0.058	1.00	1.00	0.058	No
427	14.94	265.99	101.14	164.85	0.76	0.080	1.38	0.058	1.00	1.00	0.058	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	6.42	0.30	3.06	1.54	1.00	5.65	9.86	55.69	0.270	No	Yes	2.00
2	6.44	0.41	2.91	1.35	0.96	7.87	7.30	57.42	0.375	No	Yes	2.00
3	6.46	0.56	2.76	1.18	0.91	10.79	5.36	57.79	0.515	No	Yes	2.00
4	6.48	0.70	2.65	1.06	0.86	13.57	7.38	100.16	0.156	No	No	2.00
5	6.50	0.74	2.61	0.98	0.85	14.31	5.85	83.66	0.121	No	No	2.00
6	6.52	0.70	2.65	1.04	0.86	13.48	7.30	98.42	0.152	No	No	2.00
7	6.54	0.71	2.65	1.08	0.86	13.76	7.27	100.03	0.156	No	No	2.00
8	6.56	0.75	2.62	1.06	0.85	14.47	6.33	91.60	0.136	No	No	2.00
9	6.58	0.82	2.60	1.12	0.84	15.98	5.35	85.56	0.138	No	No	2.00
10	6.60	0.89	2.58	1.18	0.84	17.25	4.74	81.84	0.131	No	No	2.00
11	6.62	0.92	2.58	1.26	0.84	17.94	4.75	85.18	0.137	No	No	2.00
12	6.64	0.88	2.70	1.97	0.88	17.02	4.74	80.70	0.812	No	Yes	2.00
13	6.66	0.75	2.82	2.53	0.93	14.43	6.15	88.75	0.688	No	Yes	2.00
14	6.68	0.61	2.97	3.40	0.99	11.79	8.28	97.64	0.563	No	Yes	2.00
15	6.70	0.57	2.98	3.18	0.99	10.92	8.45	92.20	0.521	No	Yes	2.00
16	6.72	0.58	2.99	3.38	0.99	11.17	8.57	95.75	0.533	No	Yes	2.00
17	6.74	0.62	2.97	3.43	0.99	11.90	8.26	98.35	0.568	No	Yes	2.00
18	6.76	0.66	2.95	3.39	0.98	12.62	7.89	99.57	0.602	No	Yes	2.00
19	6.78	0.68	2.94	3.52	0.98	13.04	7.87	102.61	0.622	No	Yes	2.00
20	6.80	0.67	2.97	3.90	0.99	12.93	8.35	107.92	0.617	No	Yes	2.00
21	6.82	0.67	3.01	4.32	1.00	12.76	8.87	113.19	0.608	No	Yes	2.00
22	6.84	0.66	3.04	4.75	1.00	12.55	9.43	118.31	0.599	No	Yes	2.00
23	6.86	0.64	3.07	5.24	1.00	12.25	10.07	123.33	0.584	No	Yes	2.00
24	6.88	0.62	3.11	5.81	1.00	11.83	10.85	128.28	0.564	No	Yes	2.00
25	6.90	0.61	3.14	6.21	1.00	11.55	11.39	131.51	0.551	No	Yes	2.00
26	6.92	0.61	3.13	6.17	1.00	11.65	11.28	131.49	0.556	No	Yes	2.00
27	6.94	0.63	3.11	5.86	1.00	12.07	10.76	129.93	0.576	No	Yes	2.00
28	6.96	0.66	3.07	5.50	1.00	12.64	10.12	127.92	0.603	No	Yes	2.00
29	6.98	0.70	3.04	5.20	1.00	13.38	9.49	126.89	0.638	No	Yes	2.00
30	7.00	0.74	3.00	4.89	1.00	14.19	8.84	125.42	0.677	No	Yes	2.00
31	7.02	0.79	2.96	4.58	0.98	15.23	8.15	124.10	0.727	No	Yes	2.00
32	7.04	0.86	2.92	4.31	0.97	16.58	7.45	123.47	0.791	No	Yes	2.00
33	7.06	0.94	2.87	4.08	0.95	18.05	6.81	122.98	0.861	No	Yes	2.00
34	7.08	1.05	2.81	3.70	0.93	20.33	5.92	120.39	0.970	No	Yes	2.00
35	7.10	1.15	2.75	3.40	0.90	22.28	5.27	117.45	1.063	No	Yes	2.00
36	7.12	1.24	2.71	3.24	0.89	23.93	4.86	116.29	1.141	No	Yes	2.00
37	7.14	1.25	2.72	3.34	0.89	24.23	4.91	118.84	1.156	No	Yes	2.00
38	7.16	1.26	2.73	3.46	0.90	24.40	4.99	121.73	1.164	No	Yes	2.00
39	7.18	1.28	2.72	3.51	0.90	24.79	4.97	123.31	1.183	No	Yes	2.00
40	7.20	1.32	2.71	3.47	0.89	25.48	4.84	123.26	1.216	No	Yes	2.00
41	7.22	1.34	2.70	3.44	0.89	26.00	4.74	123.23	1.240	No	Yes	2.00
42	7.24	1.36	2.69	3.39	0.88	26.42	9.82	259.38	3.600	No	No	2.00
43	7.26	1.38	2.69	3.34	0.88	26.73	9.31	248.90	3.600	No	No	2.00
44	7.28	1.39	2.68	3.26	0.88	26.92	8.79	236.70	3.600	No	No	2.00
45	7.30	1.37	2.68	3.21	0.88	26.51	8.87	235.23	3.600	No	No	2.00
46	7.32	1.33	2.69	3.23	0.88	25.64	9.61	246.48	3.600	No	No	2.00
47	7.34	1.29	2.70	3.25	0.89	24.91	4.72	117.72	1.188	No	Yes	2.00
48	7.36	1.27	2.68	2.94	0.88	24.45	8.99	219.95	3.600	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	7.38	1.32	2.65	2.83	0.87	25.55	7.68	196.25	0.705	No	No	2.00
50	7.40	1.33	2.65	2.81	0.87	25.65	7.54	193.51	0.679	No	No	2.00
51	7.42	1.32	2.68	3.09	0.88	25.53	8.96	228.71	3.600	No	No	2.00
52	7.44	1.25	2.70	3.11	0.89	24.08	4.72	113.61	1.148	No	Yes	2.00
53	7.46	1.21	2.70	3.02	0.89	23.35	4.74	110.70	1.114	No	Yes	2.00
54	7.48	1.18	2.71	2.97	0.89	22.74	4.79	108.94	1.085	No	Yes	2.00
55	7.50	1.15	2.72	3.01	0.89	22.17	4.92	109.02	1.058	No	Yes	2.00
56	7.52	1.13	2.73	3.03	0.90	21.62	5.03	108.86	1.031	No	Yes	2.00
57	7.54	1.11	2.73	2.95	0.90	21.31	5.00	106.57	1.017	No	Yes	2.00
58	7.56	1.12	2.70	2.69	0.89	21.40	4.72	101.12	1.021	No	Yes	2.00
59	7.58	1.14	2.67	2.42	0.87	21.88	8.24	180.26	0.562	No	No	2.00
60	7.60	1.17	2.63	2.18	0.86	22.52	6.52	146.78	0.337	No	No	2.00
61	7.62	1.20	2.60	2.01	0.85	23.07	5.41	124.79	0.235	No	No	2.00
62	7.64	1.22	2.58	1.93	0.84	23.49	4.84	113.69	0.217	No	No	2.00
63	7.66	1.24	2.58	1.92	0.84	23.77	4.70	111.72	0.210	No	No	2.00
64	7.68	1.23	2.60	2.08	0.85	23.56	5.45	128.47	0.249	No	No	2.00
65	7.70	1.19	2.64	2.29	0.86	22.81	6.86	156.41	0.392	No	No	2.00
66	7.72	1.14	2.68	2.55	0.88	21.77	9.06	197.25	0.714	No	No	2.00
67	7.74	1.09	2.71	2.70	0.89	20.82	4.84	100.72	0.993	No	Yes	2.00
68	7.76	1.06	2.73	2.79	0.90	20.33	5.02	102.04	0.970	No	Yes	2.00
69	7.78	1.05	2.73	2.80	0.90	20.05	5.08	101.96	0.956	No	Yes	2.00
70	7.80	1.05	2.72	2.67	0.90	20.09	4.94	99.17	0.958	No	Yes	2.00
71	7.82	1.05	2.71	2.53	0.89	20.07	4.79	96.21	0.957	No	Yes	2.00
72	7.84	1.06	2.68	2.33	0.88	20.29	9.17	186.04	0.611	No	No	2.00
73	7.86	1.12	2.64	2.11	0.86	21.36	6.94	148.28	0.345	No	No	2.00
74	7.88	1.19	2.58	1.86	0.84	22.84	4.88	111.44	0.209	No	No	2.00
75	7.90	1.27	2.55	1.76	0.83	24.24	3.86	93.67	0.156	No	No	2.00
76	7.92	1.29	2.55	1.81	0.83	24.79	3.86	95.58	0.161	No	No	2.00
77	7.94	1.30	2.56	1.88	0.83	25.00	4.04	101.07	0.176	No	No	2.00
78	7.96	1.31	2.55	1.86	0.83	25.03	3.93	98.35	0.168	No	No	2.00
79	7.98	1.30	2.54	1.78	0.83	24.89	3.70	92.12	0.153	No	No	2.00
80	8.00	1.29	2.54	1.72	0.83	24.72	3.55	87.84	0.143	No	No	2.00
81	8.02	1.27	2.53	1.63	0.82	24.30	3.41	82.90	0.133	No	No	2.00
82	8.04	1.25	2.52	1.52	0.82	23.97	3.14	75.21	0.120	No	No	2.00
83	8.06	1.24	2.50	1.38	0.81	23.66	2.97	70.29	0.112	No	No	1.96
84	8.08	1.23	2.49	1.31	0.81	23.51	2.90	68.20	0.110	No	No	1.91
85	8.10	1.22	2.49	1.28	0.81	23.31	2.88	67.24	0.108	No	No	1.88
86	8.12	1.21	2.49	1.29	0.81	23.00	2.93	67.50	0.109	No	No	1.89
87	8.14	1.19	2.50	1.30	0.81	22.75	2.97	67.54	0.109	No	No	1.89
88	8.16	1.18	2.50	1.30	0.81	22.51	2.87	64.51	0.105	No	No	1.82
89	8.18	1.17	2.50	1.29	0.81	22.30	2.89	64.36	0.105	No	No	1.82
90	8.20	1.17	2.51	1.29	0.82	22.22	2.91	64.76	0.105	No	No	1.82
91	8.22	1.17	2.51	1.29	0.82	22.19	2.91	64.63	0.105	No	No	1.82
92	8.24	1.17	2.50	1.27	0.81	22.15	2.87	63.54	0.104	No	No	1.80
93	8.26	1.15	2.51	1.27	0.82	21.90	2.94	64.38	0.105	No	No	1.81
94	8.28	1.14	2.51	1.25	0.82	21.61	2.98	64.38	0.105	No	No	1.81
95	8.30	1.14	2.50	1.22	0.81	21.62	2.87	61.93	0.102	No	No	1.76
96	8.32	1.17	2.48	1.17	0.81	22.27	2.86	63.73	0.104	No	No	1.80

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	8.34	1.23	2.45	1.10	0.79	23.47	2.65	62.19	0.102	No	No	1.76
98	8.36	1.30	2.42	1.06	0.78	24.85	2.48	61.76	0.102	No	No	1.76
99	8.38	1.36	2.41	1.09	0.78	25.91	2.43	62.93	0.103	No	No	1.78
100	8.40	1.40	2.41	1.16	0.78	26.71	2.45	65.41	0.106	No	No	1.82
101	8.42	1.42	2.43	1.25	0.79	27.02	2.52	68.05	0.109	No	No	1.88
102	8.44	1.41	2.44	1.31	0.79	26.85	2.60	69.76	0.112	No	No	1.92
103	8.46	1.37	2.47	1.41	0.80	26.18	2.76	72.19	0.115	No	No	1.97
104	8.48	1.35	2.48	1.43	0.81	25.66	2.83	72.67	0.116	No	No	1.98
105	8.50	1.35	2.47	1.39	0.80	25.67	2.79	71.58	0.114	No	No	1.96
106	8.52	1.36	2.45	1.31	0.80	25.94	2.68	69.42	0.111	No	No	1.90
107	8.54	1.37	2.45	1.28	0.79	26.00	2.63	68.49	0.110	No	No	1.88
108	8.56	1.36	2.45	1.29	0.80	25.86	2.66	68.70	0.110	No	No	1.88
109	8.58	1.49	2.35	0.98	0.76	28.53	2.14	61.02	0.101	No	No	1.73
110	8.60	1.62	2.30	0.88	0.74	30.95	1.91	59.04	0.099	No	No	1.69
111	8.62	1.71	2.26	0.81	0.72	32.75	1.78	58.20	0.098	No	No	1.68
112	8.64	1.63	2.35	1.13	0.76	31.10	2.14	66.54	0.107	No	No	1.83
113	8.66	1.53	2.43	1.40	0.79	29.25	2.51	73.49	0.117	No	No	1.99
114	8.68	1.46	2.48	1.63	0.81	27.82	2.85	79.27	0.126	No	No	2.00
115	8.70	1.45	2.48	1.60	0.81	27.61	2.83	78.23	0.125	No	No	2.00
116	8.72	1.46	2.46	1.47	0.80	27.72	2.70	74.83	0.119	No	No	2.00
117	8.74	1.48	2.42	1.31	0.79	28.18	2.50	70.40	0.112	No	No	1.91
118	8.76	1.50	2.40	1.24	0.78	28.51	2.40	68.38	0.110	No	No	1.86
119	8.78	1.53	2.39	1.19	0.77	29.22	2.31	67.38	0.108	No	No	1.84
120	8.80	1.54	2.40	1.25	0.78	29.34	2.35	69.05	4.000	Yes	No	2.00
121	8.82	1.48	2.43	1.35	0.79	28.17	2.54	71.62	4.000	Yes	No	2.00
122	8.84	1.38	2.50	1.61	0.81	26.14	2.98	77.86	4.000	Yes	No	2.00
123	8.86	1.30	2.52	1.62	0.82	24.64	3.26	80.32	4.000	Yes	No	2.00
124	8.88	1.28	2.51	1.48	0.82	24.29	2.93	71.07	0.113	No	No	1.92
125	8.90	1.32	2.45	1.21	0.79	24.99	2.64	65.91	0.107	No	No	1.80
126	8.92	1.33	2.44	1.20	0.79	25.26	2.60	65.72	0.106	No	No	1.80
127	8.94	1.33	2.46	1.28	0.80	25.20	2.70	68.03	0.109	No	No	1.85
128	8.96	1.33	2.47	1.34	0.80	25.21	2.77	69.94	0.112	No	No	1.89
129	8.98	1.39	2.44	1.27	0.79	26.31	2.59	68.20	0.110	No	No	1.85
130	9.00	1.49	2.39	1.17	0.77	28.40	2.33	66.25	0.107	No	No	1.81
131	9.02	1.66	2.33	1.04	0.75	31.63	2.02	64.02	0.104	No	No	1.76
132	9.04	1.99	2.23	0.93	0.71	38.24	1.70	64.85	0.105	No	No	1.78
133	9.06	2.17	2.20	0.91	0.70	41.65	1.60	66.74	4.000	Yes	No	2.00
134	9.08	2.13	2.25	1.10	0.72	40.85	1.74	71.08	4.000	Yes	No	2.00
135	9.10	1.78	2.39	1.49	0.77	33.98	2.31	78.38	4.000	Yes	No	2.00
136	9.12	1.48	2.53	2.01	0.83	28.14	3.43	96.55	4.000	Yes	No	2.00
137	9.14	1.37	2.57	2.08	0.84	25.88	4.42	114.31	4.000	Yes	No	2.00
138	9.16	1.50	2.48	1.71	0.81	28.50	2.87	81.91	4.000	Yes	No	2.00
139	9.18	1.96	2.27	1.08	0.73	37.52	1.83	68.54	4.000	Yes	No	2.00
140	9.20	2.60	2.10	0.80	0.66	50.13	1.41	70.83	4.000	Yes	No	2.00
141	9.22	3.17	1.99	0.69	0.62	61.34	1.30	79.61	4.000	Yes	No	2.00
142	9.24	3.48	1.97	0.74	0.61	67.42	1.28	86.51	0.140	No	No	2.00
143	9.26	3.45	2.00	0.82	0.62	66.98	1.30	87.32	0.142	No	No	2.00
144	9.28	3.20	2.06	0.95	0.65	61.93	1.37	84.67	0.136	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	9.30	2.82	2.12	1.00	0.67	54.54	1.45	79.05	0.126	No	No	2.00
146	9.32	2.49	2.16	0.98	0.69	47.93	1.52	73.04	0.116	No	No	1.95
147	9.34	2.27	2.18	0.94	0.70	43.58	1.58	68.69	0.110	No	No	1.84
148	9.36	2.12	2.21	0.94	0.71	40.66	1.64	66.80	0.108	No	No	1.80
149	9.38	2.03	2.23	0.97	0.72	38.94	1.71	66.41	0.107	No	No	1.79
150	9.40	2.08	2.20	0.87	0.70	39.85	1.61	64.19	0.105	No	No	1.75
151	9.42	2.25	2.15	0.80	0.68	43.22	1.51	65.15	0.106	No	No	1.77
152	9.44	2.41	2.14	0.86	0.68	46.26	1.49	69.01	0.111	No	No	1.85
153	9.46	2.42	2.17	0.98	0.69	46.43	1.55	71.99	0.115	No	No	1.91
154	9.48	2.35	2.21	1.10	0.71	45.13	1.64	74.09	0.118	No	No	1.96
155	9.50	2.41	2.20	1.07	0.70	46.22	1.60	74.09	0.118	No	No	1.96
156	9.52	2.51	2.16	0.97	0.69	48.30	1.52	73.25	0.117	No	No	1.94
157	9.54	2.54	2.13	0.88	0.68	48.77	1.46	71.32	0.114	No	No	1.89
158	9.56	2.36	2.16	0.89	0.69	45.35	1.52	68.88	0.110	No	No	1.84
159	9.58	2.13	2.23	1.02	0.71	40.69	1.69	68.88	0.110	No	No	1.84
160	9.60	2.04	2.26	1.07	0.72	38.94	1.77	69.06	0.111	No	No	1.84
161	9.62	2.18	2.20	0.93	0.70	41.68	1.61	67.03	0.108	No	No	1.80
162	9.64	2.40	2.10	0.72	0.67	46.09	1.42	65.51	0.106	No	No	1.76
163	9.66	2.56	2.07	0.70	0.65	49.13	1.38	67.81	0.109	No	No	1.81
164	9.68	2.59	2.08	0.73	0.66	49.86	1.39	69.21	0.111	No	No	1.84
165	9.70	2.65	2.08	0.78	0.66	50.89	1.40	71.05	0.113	No	No	1.88
166	9.72	2.85	2.03	0.70	0.64	54.95	1.34	73.39	0.117	No	No	1.94
167	9.74	3.09	1.98	0.63	0.62	59.69	1.29	77.02	0.122	No	No	2.00
168	9.76	3.38	1.93	0.58	0.60	65.39	1.25	82.00	0.131	No	No	2.00
169	9.78	3.50	1.93	0.63	0.60	67.72	1.26	85.11	0.137	No	No	2.00
170	9.80	3.37	1.96	0.69	0.61	65.09	1.28	83.32	0.134	No	No	2.00
171	9.82	3.19	2.01	0.76	0.63	61.57	1.31	80.94	0.129	No	No	2.00
172	9.84	3.03	2.05	0.82	0.65	58.51	1.35	78.98	0.126	No	No	2.00
173	9.86	3.17	2.04	0.86	0.64	61.11	1.35	82.20	0.132	No	No	2.00
174	9.88	3.39	2.03	0.89	0.64	65.46	1.33	87.04	0.141	No	No	2.00
175	9.90	3.62	1.99	0.83	0.62	70.15	1.30	90.86	0.150	No	No	2.00
176	9.92	3.81	1.97	0.83	0.62	73.87	1.28	94.66	0.159	No	No	2.00
177	9.94	3.88	1.98	0.91	0.62	75.26	1.29	97.24	0.166	No	No	2.00
178	9.96	3.93	2.01	1.04	0.63	76.08	1.32	100.31	0.174	No	No	2.00
179	9.98	3.94	2.04	1.13	0.64	76.28	1.34	102.17	0.179	No	No	2.00
180	10.00	3.82	2.05	1.13	0.65	74.06	1.35	100.01	0.173	No	No	2.00
181	10.02	3.63	2.06	1.13	0.65	70.19	1.37	96.20	0.163	No	No	2.00
182	10.04	3.35	2.09	1.11	0.66	64.74	1.40	90.61	0.149	No	No	2.00
183	10.06	3.25	2.11	1.17	0.67	62.73	1.44	90.07	0.148	No	No	2.00
184	10.08	3.34	2.11	1.23	0.67	64.46	1.44	92.86	0.154	No	No	2.00
185	10.10	3.54	2.10	1.25	0.67	68.41	1.42	96.95	0.165	No	No	2.00
186	10.12	3.59	2.10	1.27	0.67	69.41	1.42	98.32	0.168	No	No	2.00
187	10.14	3.53	2.11	1.30	0.67	68.15	1.44	97.83	0.167	No	No	2.00
188	10.16	3.46	2.12	1.31	0.68	66.76	1.45	96.86	0.165	No	No	2.00
189	10.18	3.52	2.08	1.17	0.66	67.98	1.40	94.84	0.159	No	No	2.00
190	10.20	3.63	2.02	0.94	0.64	69.10	1.33	91.63	0.152	No	No	2.00
191	10.22	3.74	1.97	0.78	0.62	69.65	1.28	89.40	0.146	No	No	2.00
192	10.24	3.87	1.93	0.69	0.61	70.93	1.26	89.34	0.146	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	10.26	3.80	1.94	0.69	0.61	69.56	1.26	87.92	0.143	No	No	2.00
194	10.28	3.42	2.00	0.76	0.63	63.60	1.30	82.96	0.133	No	No	2.00
195	10.30	2.80	2.08	0.84	0.66	53.46	1.40	74.71	0.119	No	No	1.95
196	10.32	2.21	2.24	1.12	0.72	42.08	1.72	72.47	0.115	No	No	1.90
197	10.34	1.93	2.36	1.46	0.77	36.64	2.16	78.96	0.126	No	No	2.00
198	10.36	2.08	2.34	1.53	0.76	39.55	2.09	82.58	0.132	No	No	2.00
199	10.38	2.40	2.23	1.21	0.72	45.76	1.70	77.57	0.123	No	No	2.00
200	10.40	2.56	2.18	1.10	0.70	48.93	1.57	76.94	0.122	No	No	2.00
201	10.42	2.37	2.26	1.32	0.73	45.21	1.77	80.02	0.128	No	No	2.00
202	10.44	2.03	2.39	1.80	0.78	38.47	2.34	89.91	0.148	No	No	2.00
203	10.46	1.82	2.48	2.17	0.81	34.35	2.86	98.18	0.168	No	No	2.00
204	10.48	1.88	2.44	1.95	0.80	35.56	2.61	92.78	0.154	No	No	2.00
205	10.50	2.13	2.36	1.66	0.77	40.37	2.16	87.08	0.141	No	No	2.00
206	10.52	2.29	2.30	1.47	0.74	43.61	1.91	83.43	0.134	No	No	2.00
207	10.54	2.24	2.33	1.63	0.76	42.55	2.05	87.33	0.142	No	No	2.00
208	10.56	2.10	2.39	1.88	0.78	39.86	2.34	93.31	0.156	No	No	2.00
209	10.58	2.14	2.40	1.98	0.78	40.53	2.38	96.54	0.164	No	No	2.00
210	10.60	2.36	2.34	1.82	0.76	44.92	2.11	94.65	0.159	No	No	2.00
211	10.62	2.77	2.25	1.61	0.73	53.09	1.77	93.79	0.157	No	No	2.00
212	10.64	3.19	2.16	1.31	0.69	60.02	1.52	91.11	0.150	No	No	2.00
213	10.66	3.50	2.10	1.16	0.67	64.42	1.42	91.38	0.151	No	No	2.00
214	10.68	3.52	2.08	1.05	0.66	64.21	1.39	88.94	0.145	No	No	2.00
215	10.70	3.14	2.12	1.06	0.68	57.67	1.44	83.22	0.134	No	No	2.00
216	10.72	2.75	2.16	1.06	0.69	50.89	1.52	77.32	0.123	No	No	2.00
217	10.74	2.47	2.19	1.05	0.70	46.00	1.59	73.31	0.117	No	No	1.91
218	10.76	2.42	2.22	1.17	0.72	45.55	1.67	76.17	0.121	No	No	1.98
219	10.78	2.33	2.27	1.35	0.73	44.23	1.82	80.41	0.128	No	No	2.00
220	10.80	2.24	2.32	1.55	0.75	42.41	2.01	85.12	0.137	No	No	2.00
221	10.82	2.25	2.32	1.57	0.75	42.62	2.01	85.84	0.139	No	No	2.00
222	10.84	2.22	2.33	1.57	0.76	42.11	2.03	85.49	0.138	No	No	2.00
223	10.86	2.14	2.35	1.61	0.76	40.56	2.11	85.67	0.138	No	No	2.00
224	10.88	2.15	2.33	1.53	0.76	40.77	2.05	83.56	0.134	No	No	2.00
225	10.90	2.40	2.28	1.45	0.74	45.11	1.86	83.86	0.135	No	No	2.00
226	10.92	2.89	2.17	1.15	0.70	52.50	1.54	81.04	0.129	No	No	2.00
227	10.94	3.20	2.11	1.04	0.68	56.92	1.44	81.91	0.131	No	No	2.00
228	10.96	3.23	2.09	0.95	0.67	56.98	1.41	80.07	0.128	No	No	2.00
229	10.98	3.00	2.13	1.00	0.68	53.26	1.46	77.84	0.124	No	No	2.00
230	11.00	2.82	2.16	1.05	0.69	50.45	1.52	76.82	0.122	No	No	2.00
231	11.02	2.88	2.17	1.11	0.70	51.52	1.54	79.19	0.126	No	No	2.00
232	11.04	2.94	2.15	1.06	0.69	52.13	1.51	78.47	0.125	No	No	2.00
233	11.06	2.91	2.16	1.11	0.69	51.70	1.53	79.20	4.000	Yes	No	2.00
234	11.08	2.63	2.21	1.16	0.71	47.18	1.64	77.16	4.000	Yes	No	2.00
235	11.10	2.30	2.29	1.36	0.74	42.04	1.89	79.37	4.000	Yes	No	2.00
236	11.12	1.79	2.42	1.70	0.79	33.61	2.51	84.24	4.000	Yes	No	2.00
237	11.14	1.34	2.63	2.47	0.87	24.63	6.57	161.88	4.000	Yes	No	2.00
238	11.16	0.99	2.83	3.34	0.95	17.65	6.18	109.04	4.000	Yes	Yes	2.00
239	11.18	0.90	2.85	3.19	0.96	15.91	6.49	103.28	4.000	Yes	Yes	2.00
240	11.20	0.90	2.77	2.38	0.93	15.94	5.52	88.03	4.000	Yes	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	11.22	0.95	2.71	2.00	0.90	16.89	4.80	81.16	4.000	Yes	Yes	2.00
242	11.24	1.13	2.62	1.84	0.87	20.37	6.21	126.55	4.000	Yes	No	2.00
243	11.26	1.32	2.55	1.75	0.84	24.25	3.85	93.30	4.000	Yes	No	2.00
244	11.28	1.59	2.45	1.57	0.81	29.48	2.66	78.46	4.000	Yes	No	2.00
245	11.30	1.91	2.36	1.40	0.77	34.72	2.19	76.10	4.000	Yes	No	2.00
246	11.32	2.32	2.28	1.27	0.74	41.21	1.85	76.09	4.000	Yes	No	2.00
247	11.34	2.62	2.23	1.22	0.72	45.84	1.70	77.72	4.000	Yes	No	2.00
248	11.36	2.63	2.24	1.29	0.73	46.19	1.73	79.84	0.127	No	No	2.00
249	11.38	2.41	2.31	1.51	0.75	42.96	1.96	84.23	0.136	No	No	2.00
250	11.40	2.12	2.40	1.87	0.79	38.59	2.39	92.19	0.153	No	No	2.00
251	11.42	2.12	2.42	1.97	0.79	38.69	2.46	95.30	0.160	No	No	2.00
252	11.44	2.54	2.32	1.69	0.76	45.14	2.01	90.82	0.150	No	No	2.00
253	11.46	3.07	2.23	1.47	0.72	53.17	1.69	89.87	0.147	No	No	2.00
254	11.48	3.35	2.20	1.45	0.71	57.58	1.61	92.78	0.154	No	No	2.00
255	11.50	3.32	2.21	1.49	0.71	57.04	1.63	93.22	0.155	No	No	2.00
256	11.52	3.36	2.20	1.45	0.71	57.38	1.61	92.37	0.153	No	No	2.00
257	11.54	3.60	2.17	1.39	0.70	60.79	1.54	93.55	0.156	No	No	2.00
258	11.56	3.94	2.12	1.30	0.68	65.73	1.45	95.61	0.161	No	No	2.00
259	11.58	4.25	2.09	1.24	0.67	70.10	1.40	98.26	0.168	No	No	2.00
260	11.60	4.56	2.04	1.11	0.65	74.04	1.35	99.59	0.172	No	No	2.00
261	11.62	5.03	1.98	0.99	0.63	80.25	1.29	103.75	0.184	No	No	2.00
262	11.64	5.54	1.93	0.90	0.61	86.93	1.26	109.19	0.201	No	No	2.00
263	11.66	5.94	1.90	0.85	0.59	92.16	1.23	113.71	0.217	No	No	2.00
264	11.68	6.13	1.88	0.82	0.59	94.32	1.22	115.18	0.222	No	No	2.00
265	11.70	6.35	1.85	0.76	0.58	96.83	1.20	116.14	0.226	No	No	2.00
266	11.72	6.65	1.81	0.70	0.56	100.20	1.17	117.00	0.229	No	No	2.00
267	11.74	7.07	1.78	0.66	0.55	105.42	1.13	119.29	0.238	No	No	2.00
268	11.76	7.53	1.78	0.70	0.55	112.04	1.12	126.01	0.266	No	No	2.00
269	11.78	8.08	1.75	0.70	0.54	119.22	1.09	129.86	0.284	No	No	2.00
270	11.80	8.74	1.71	0.65	0.53	127.31	1.01	128.89	0.279	No	No	2.00
271	11.82	9.78	1.62	0.52	0.49	138.70	1.00	138.70	0.328	No	No	2.00
272	11.84	10.50	1.56	0.43	0.47	146.20	1.00	146.20	0.371	No	No	2.00
273	11.86	10.66	1.54	0.41	0.46	147.40	1.00	147.40	0.378	No	No	2.00
274	11.88	9.85	1.57	0.40	0.47	136.90	1.00	136.90	0.319	No	No	2.00
275	11.90	8.75	1.61	0.40	0.49	122.63	1.00	122.63	0.252	No	No	2.00
276	11.92	7.49	1.68	0.43	0.51	106.66	1.00	106.66	0.193	No	No	2.00
277	11.94	5.77	1.84	0.60	0.57	85.42	1.19	101.53	4.000	Yes	No	2.00
278	11.96	4.22	2.06	1.01	0.66	65.83	1.36	89.58	4.000	Yes	No	2.00
279	11.98	3.13	2.26	1.54	0.73	51.01	1.77	90.43	4.000	Yes	No	2.00
280	12.00	2.67	2.41	2.36	0.79	45.14	2.45	110.70	4.000	Yes	No	2.00
281	12.02	2.35	2.54	3.23	0.84	40.84	3.64	148.62	4.000	Yes	No	2.00
282	12.04	1.96	2.69	4.53	0.90	34.98	9.48	331.62	4.000	Yes	No	2.00
283	12.06	1.65	2.78	5.17	0.93	29.68	5.61	166.45	4.000	Yes	Yes	2.00
284	12.08	1.41	2.85	5.52	0.96	25.48	6.47	164.79	4.000	Yes	Yes	2.00
285	12.10	1.24	2.89	5.63	0.98	22.38	7.12	159.45	4.000	Yes	Yes	2.00
286	12.12	1.20	2.87	5.04	0.97	21.49	6.85	147.14	1.025	No	Yes	2.00
287	12.14	1.18	2.83	4.21	0.95	20.82	6.29	130.97	0.993	No	Yes	2.00
288	12.16	1.17	2.78	3.34	0.93	20.24	5.59	113.23	0.966	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	12.18	1.19	2.73	2.78	0.92	20.19	5.04	101.74	0.963	No	Yes	2.00
290	12.20	1.23	2.68	2.36	0.90	20.67	8.94	184.80	0.600	No	No	2.00
291	12.22	1.27	2.65	2.15	0.88	21.17	7.30	154.56	0.381	No	No	2.00
292	12.24	1.41	2.65	2.48	0.88	23.65	7.24	171.32	0.493	No	No	2.00
293	12.26	1.48	2.67	2.93	0.89	24.97	8.57	214.02	3.600	No	No	2.00
294	12.28	1.50	2.71	3.50	0.91	25.53	4.86	124.03	1.218	No	Yes	2.00
295	12.30	1.37	2.76	3.77	0.93	23.37	5.42	126.64	1.115	No	Yes	2.00
296	12.32	1.28	2.81	4.03	0.94	21.87	5.92	129.48	1.043	No	Yes	2.00
297	12.34	1.23	2.82	4.02	0.95	20.96	6.09	127.59	1.000	No	Yes	2.00
298	12.36	1.20	2.83	3.98	0.95	20.30	6.19	125.71	0.968	No	Yes	2.00
299	12.38	1.17	2.82	3.83	0.95	19.77	6.16	121.85	0.943	No	Yes	2.00
300	12.40	1.15	2.80	3.45	0.94	19.30	5.90	113.99	0.921	No	Yes	2.00
301	12.42	1.15	2.78	3.03	0.93	18.94	5.55	105.15	0.904	No	Yes	2.00
302	12.44	1.14	2.74	2.64	0.92	18.66	5.19	96.79	0.890	No	Yes	2.00
303	12.46	1.15	2.71	2.32	0.91	18.55	4.84	89.82	0.885	No	Yes	2.00
304	12.48	1.15	2.69	2.11	0.90	18.54	9.50	176.19	0.530	No	No	2.00
305	12.50	1.19	2.67	2.05	0.89	18.97	8.66	164.37	4.000	Yes	No	2.00
306	12.52	1.30	2.63	1.92	0.88	20.76	6.38	132.51	4.000	Yes	No	2.00
307	12.54	1.57	2.53	1.71	0.84	24.71	3.53	87.34	4.000	Yes	No	2.00
308	12.56	1.94	2.43	1.51	0.80	30.30	2.54	77.07	4.000	Yes	No	2.00
309	12.58	2.19	2.41	1.63	0.79	34.13	2.42	82.59	4.000	Yes	No	2.00
310	12.60	2.22	2.44	1.85	0.80	34.70	2.58	89.39	4.000	Yes	No	2.00
311	12.62	1.99	2.50	2.07	0.83	31.37	2.82	88.53	4.000	Yes	No	2.00
312	12.64	1.70	2.59	2.37	0.86	27.07	5.00	135.25	4.000	Yes	No	2.00
313	12.66	1.45	2.67	2.66	0.90	23.12	8.54	197.47	4.000	Yes	No	2.00
314	12.68	1.30	2.72	2.78	0.91	20.72	4.93	102.24	4.000	Yes	Yes	2.00
315	12.70	1.25	2.71	2.50	0.91	19.82	4.80	95.12	0.945	No	Yes	2.00
316	12.72	1.26	2.68	2.22	0.90	19.77	8.96	177.22	0.538	No	No	2.00
317	12.74	1.28	2.67	2.22	0.90	20.09	8.68	174.28	0.515	No	No	2.00
318	12.76	1.36	2.65	2.16	0.89	21.16	7.40	156.48	0.393	No	No	2.00
319	12.78	1.47	2.62	2.10	0.87	22.76	5.98	136.00	0.283	No	No	2.00
320	12.80	1.49	2.62	2.20	0.88	23.12	6.25	144.54	0.325	No	No	2.00
321	12.82	1.38	2.68	2.47	0.90	21.52	8.82	189.73	0.644	No	No	2.00
322	12.84	1.23	2.72	2.49	0.92	19.04	4.95	94.17	0.908	No	Yes	2.00
323	12.86	1.16	2.71	2.16	0.91	17.81	4.80	85.55	0.850	No	Yes	2.00
324	12.88	1.17	2.66	1.75	0.89	17.77	7.90	140.31	0.303	No	No	2.00
325	12.90	1.14	2.68	1.87	0.90	17.31	9.23	159.88	0.414	No	No	2.00
326	12.92	1.09	2.73	2.11	0.92	16.59	5.02	83.31	0.791	No	Yes	2.00
327	12.94	1.05	2.76	2.21	0.93	15.84	5.34	84.60	0.756	No	Yes	2.00
328	12.96	1.06	2.74	2.10	0.92	15.96	5.17	82.44	0.761	No	Yes	2.00
329	12.98	1.08	2.72	1.96	0.91	16.22	4.91	79.67	0.774	No	Yes	2.00
330	13.00	1.10	2.71	1.97	0.91	16.48	4.86	80.17	0.786	No	Yes	2.00
331	13.02	1.09	2.73	2.02	0.92	16.29	4.98	81.08	0.777	No	Yes	2.00
332	13.04	1.07	2.74	2.09	0.92	16.08	5.12	82.27	0.767	No	Yes	2.00
333	13.06	1.07	2.73	2.05	0.92	16.03	5.08	81.42	0.764	No	Yes	2.00
334	13.08	1.12	2.70	1.87	0.91	16.69	10.00	166.90	0.461	No	No	2.00
335	13.10	1.24	2.63	1.63	0.88	18.25	6.67	121.76	0.223	No	No	2.00
336	13.12	1.40	2.57	1.51	0.86	20.66	4.44	91.78	0.152	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	13.14	1.51	2.55	1.58	0.85	22.19	4.03	89.33	0.146	No	No	2.00
338	13.16	1.46	2.59	1.75	0.86	21.56	5.02	108.34	0.198	No	No	2.00
339	13.18	1.32	2.65	1.95	0.89	19.49	7.54	146.86	0.337	No	No	2.00
340	13.20	1.21	2.69	2.04	0.91	17.90	9.80	175.39	0.524	No	No	2.00
341	13.22	1.20	2.68	1.93	0.90	17.67	9.22	162.99	0.434	No	No	2.00
342	13.24	1.27	2.64	1.73	0.89	18.56	7.02	130.35	0.257	No	No	2.00
343	13.26	1.33	2.61	1.65	0.87	19.40	5.87	113.77	0.195	No	No	2.00
344	13.28	1.34	2.63	1.82	0.88	19.59	6.67	130.59	0.258	No	No	2.00
345	13.30	1.26	2.67	1.91	0.90	18.38	8.33	153.16	0.373	No	No	2.00
346	13.32	1.18	2.69	1.89	0.91	17.04	9.75	166.09	0.456	No	No	2.00
347	13.34	1.12	2.69	1.70	0.90	16.07	9.47	152.21	0.367	No	No	2.00
348	13.36	1.13	2.68	1.62	0.90	16.13	8.80	141.93	0.311	No	No	2.00
349	13.38	1.20	2.64	1.53	0.89	17.09	7.07	120.79	0.219	No	No	2.00
350	13.40	1.30	2.60	1.43	0.87	18.57	5.28	98.01	0.168	No	No	2.00
351	13.42	1.39	2.59	1.54	0.86	19.89	5.00	99.43	0.171	No	No	2.00
352	13.44	1.41	2.62	1.77	0.88	20.19	6.00	121.24	0.221	No	No	2.00
353	13.46	1.40	2.63	1.88	0.88	20.08	6.68	134.15	0.274	No	No	2.00
354	13.48	1.30	2.68	2.04	0.90	18.61	8.95	166.51	0.458	No	No	2.00
355	13.50	1.16	2.73	2.12	0.92	16.49	5.05	83.31	0.787	No	Yes	2.00
356	13.52	0.99	2.82	2.35	0.95	13.96	6.07	84.79	0.666	No	Yes	2.00
357	13.54	0.92	2.83	2.17	0.96	12.91	6.18	79.79	0.616	No	Yes	2.00
358	13.56	0.93	2.79	1.89	0.94	12.97	5.75	74.57	0.618	No	Yes	2.00
359	13.58	0.96	2.77	1.77	0.93	13.31	5.46	72.70	0.635	No	Yes	2.00
360	13.60	0.96	2.77	1.82	0.94	13.35	5.52	73.75	0.637	No	Yes	2.00
361	13.62	0.97	2.78	1.86	0.94	13.38	5.57	74.55	0.638	No	Yes	2.00
362	13.64	1.01	2.75	1.75	0.93	14.00	5.20	72.84	0.668	No	Yes	2.00
363	13.66	1.18	2.65	1.46	0.89	16.26	7.42	120.55	0.219	No	No	2.00
364	13.68	1.31	2.58	1.27	0.86	18.11	4.67	84.57	0.136	No	No	2.00
365	13.70	1.41	2.56	1.34	0.86	19.43	4.27	82.97	0.133	No	No	2.00
366	13.72	1.39	2.61	1.62	0.87	19.36	5.74	111.06	0.187	No	No	2.00
367	13.74	1.38	2.64	1.82	0.89	19.28	6.92	133.32	0.270	No	No	2.00
368	13.76	1.33	2.67	1.94	0.90	18.53	8.37	155.10	0.384	No	No	2.00
369	13.78	1.20	2.72	2.02	0.92	16.64	4.89	81.33	0.794	No	Yes	2.00
370	13.80	1.10	2.77	2.16	0.94	15.10	5.46	82.53	0.720	No	Yes	2.00
371	13.82	1.07	2.78	2.16	0.94	14.63	5.60	81.97	0.698	No	Yes	2.00
372	13.84	1.11	2.76	2.09	0.93	15.23	5.34	81.43	0.727	No	Yes	2.00
373	13.86	1.15	2.75	2.13	0.93	15.83	5.23	82.84	4.000	Yes	Yes	2.00
374	13.88	1.29	2.68	1.86	0.90	17.63	8.82	155.58	4.000	Yes	No	2.00
375	13.90	1.35	2.64	1.68	0.89	18.37	6.83	125.58	4.000	Yes	No	2.00
376	13.92	1.62	2.52	1.32	0.84	21.93	3.13	68.59	4.000	Yes	No	2.00
377	13.94	1.77	2.47	1.22	0.82	23.91	2.76	65.97	4.000	Yes	No	2.00
378	13.96	2.34	2.33	1.04	0.77	31.40	2.04	63.91	4.000	Yes	No	2.00
379	13.98	2.66	2.29	1.08	0.75	35.72	1.89	67.46	4.000	Yes	No	2.00
380	14.00	3.19	2.24	1.15	0.74	42.72	1.73	73.89	4.000	Yes	No	2.00
381	14.02	3.73	2.22	1.32	0.73	50.09	1.67	83.64	4.000	Yes	No	2.00
382	14.04	4.32	2.21	1.51	0.72	57.95	1.63	94.66	0.159	No	No	2.00
383	14.06	4.56	2.22	1.67	0.73	61.29	1.66	101.48	4.000	Yes	No	2.00
384	14.08	4.19	2.30	2.04	0.76	56.85	1.92	109.04	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	14.10	3.56	2.42	2.61	0.80	48.88	2.47	120.87	4.000	Yes	No	2.00
386	14.12	2.79	2.61	3.89	0.88	39.15	5.68	222.54	4.000	Yes	No	2.00
387	14.14	2.22	2.79	5.64	0.94	31.60	5.69	179.83	4.000	Yes	Yes	2.00
388	14.16	1.90	2.91	7.31	0.99	27.17	7.40	201.05	4.000	Yes	Yes	2.00
389	14.18	1.89	2.92	7.45	0.99	27.07	7.51	203.27	1.291	No	Yes	2.00
390	14.20	1.99	2.88	6.94	0.98	28.38	6.98	197.95	1.354	No	Yes	2.00
391	14.22	2.15	2.84	6.34	0.96	30.36	6.30	191.41	1.448	No	Yes	2.00
392	14.24	2.25	2.81	6.13	0.95	31.77	5.99	190.44	1.515	No	Yes	2.00
393	14.26	2.28	2.81	6.10	0.95	32.06	5.94	190.47	1.529	No	Yes	2.00
394	14.28	2.23	2.82	6.16	0.96	31.32	6.07	190.03	1.494	No	Yes	2.00
395	14.30	2.20	2.83	6.26	0.96	30.79	6.20	190.88	1.469	No	Yes	2.00
396	14.32	2.29	2.81	6.17	0.95	32.01	5.99	191.67	1.527	No	Yes	2.00
397	14.34	2.55	2.76	5.79	0.93	35.40	5.38	190.46	1.689	No	Yes	2.00
398	14.36	2.78	2.71	5.42	0.92	38.51	4.87	187.33	1.837	No	Yes	2.00
399	14.38	2.88	2.70	5.31	0.91	39.67	10.12	401.58	3.600	No	No	2.00
400	14.40	2.86	2.71	5.46	0.92	39.37	4.81	189.56	1.878	No	Yes	2.00
401	14.42	2.90	2.71	5.56	0.92	39.85	4.84	192.77	1.901	No	Yes	2.00
402	14.44	3.32	2.64	5.06	0.89	45.35	7.15	324.40	3.600	No	No	2.00
403	14.46	4.11	2.53	4.26	0.85	55.47	3.42	189.61	0.714	No	No	2.00
404	14.48	4.83	2.45	3.78	0.82	64.59	2.64	170.37	0.540	No	No	2.00
405	14.50	5.36	2.40	3.57	0.80	71.24	2.37	169.06	0.529	No	No	2.00
406	14.52	5.79	2.38	3.64	0.79	76.71	2.29	176.01	4.000	Yes	No	2.00
407	14.54	6.36	2.35	3.53	0.78	83.84	2.13	178.23	4.000	Yes	No	2.00
408	14.56	6.82	2.32	3.45	0.77	89.43	2.01	180.12	4.000	Yes	No	2.00
409	14.58	6.58	2.35	3.61	0.78	86.28	2.12	183.02	4.000	Yes	No	2.00
410	14.60	5.98	2.42	4.10	0.80	78.93	2.45	193.71	4.000	Yes	No	2.00
411	14.62	5.22	2.51	4.88	0.84	69.45	2.97	206.28	4.000	Yes	No	2.00
412	14.64	4.77	2.57	5.43	0.86	63.65	4.41	280.82	4.000	Yes	No	2.00
413	14.66	4.51	2.60	5.73	0.88	60.11	5.49	329.81	4.000	Yes	No	2.00
414	14.68	4.61	2.58	5.35	0.87	61.13	4.60	281.26	4.000	No	No	2.00
415	14.70	5.05	2.51	4.70	0.84	66.38	2.97	197.44	0.796	No	No	2.00
416	14.72	5.45	2.45	4.18	0.82	71.09	2.66	189.42	0.712	No	No	2.00
417	14.74	5.30	2.47	4.30	0.83	69.00	2.77	191.29	0.731	No	No	2.00
418	14.76	4.79	2.53	4.71	0.85	62.60	3.35	209.71	4.000	No	No	2.00
419	14.78	4.39	2.58	5.07	0.87	57.40	4.61	264.73	4.000	No	No	2.00
420	14.80	4.37	2.57	4.91	0.86	56.93	4.37	248.97	4.000	Yes	No	2.00
421	14.82	4.66	2.52	4.40	0.84	60.21	3.11	187.33	4.000	Yes	No	2.00
422	14.84	5.24	2.45	3.93	0.82	67.30	2.64	177.54	4.000	Yes	No	2.00
423	14.86	6.58	2.32	3.20	0.77	83.31	2.00	166.55	4.000	Yes	No	2.00
424	14.88	8.09	2.20	2.63	0.72	100.98	1.61	162.72	4.000	Yes	No	2.00
425	14.90	10.13	2.06	2.04	0.67	124.39	1.36	169.53	4.000	Yes	No	2.00
426	14.92	23.81	1.55	0.86	0.48	275.25	1.00	275.25	4.000	No	No	2.00
427	14.94	37.13	1.29	0.57	0.38	415.53	1.00	415.53	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	1.96	0.00	0.00	0.02	0.00	8.08	1.91	0.00	0.00	0.02	0.00
8.10	1.88	0.00	0.00	0.02	0.00	8.12	1.89	0.00	0.00	0.02	0.00
8.14	1.89	0.00	0.00	0.02	0.00	8.16	1.82	0.00	0.00	0.02	0.00
8.18	1.82	0.00	0.00	0.02	0.00	8.20	1.82	0.00	0.00	0.02	0.00
8.22	1.82	0.00	0.00	0.02	0.00	8.24	1.80	0.00	0.00	0.02	0.00
8.26	1.81	0.00	0.00	0.02	0.00	8.28	1.81	0.00	0.00	0.02	0.00
8.30	1.76	0.00	0.00	0.02	0.00	8.32	1.80	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
8.34	1.76	0.00	0.00	0.02	0.00	8.36	1.76	0.00	0.00	0.02	0.00
8.38	1.78	0.00	0.00	0.02	0.00	8.40	1.82	0.00	0.00	0.02	0.00
8.42	1.88	0.00	0.00	0.02	0.00	8.44	1.92	0.00	0.00	0.02	0.00
8.46	1.97	0.00	0.00	0.02	0.00	8.48	1.98	0.00	0.00	0.02	0.00
8.50	1.96	0.00	0.00	0.02	0.00	8.52	1.90	0.00	0.00	0.02	0.00
8.54	1.88	0.00	0.00	0.02	0.00	8.56	1.88	0.00	0.00	0.02	0.00
8.58	1.73	0.00	0.00	0.02	0.00	8.60	1.69	0.00	0.00	0.02	0.00
8.62	1.68	0.00	0.00	0.02	0.00	8.64	1.83	0.00	0.00	0.02	0.00
8.66	1.99	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	1.91	0.00	0.00	0.02	0.00	8.76	1.86	0.00	0.00	0.02	0.00
8.78	1.84	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	1.92	0.00	0.00	0.02	0.00
8.90	1.80	0.00	0.00	0.02	0.00	8.92	1.80	0.00	0.00	0.02	0.00
8.94	1.85	0.00	0.00	0.02	0.00	8.96	1.89	0.00	0.00	0.02	0.00
8.98	1.85	0.00	0.00	0.02	0.00	9.00	1.81	0.00	0.00	0.02	0.00
9.02	1.76	0.00	0.00	0.02	0.00	9.04	1.78	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	1.95	0.00	0.00	0.02	0.00
9.34	1.84	0.00	0.00	0.02	0.00	9.36	1.80	0.00	0.00	0.02	0.00
9.38	1.79	0.00	0.00	0.02	0.00	9.40	1.75	0.00	0.00	0.02	0.00
9.42	1.77	0.00	0.00	0.02	0.00	9.44	1.85	0.00	0.00	0.02	0.00
9.46	1.91	0.00	0.00	0.02	0.00	9.48	1.96	0.00	0.00	0.02	0.00
9.50	1.96	0.00	0.00	0.02	0.00	9.52	1.94	0.00	0.00	0.02	0.00
9.54	1.89	0.00	0.00	0.02	0.00	9.56	1.84	0.00	0.00	0.02	0.00
9.58	1.84	0.00	0.00	0.02	0.00	9.60	1.84	0.00	0.00	0.02	0.00
9.62	1.80	0.00	0.00	0.02	0.00	9.64	1.76	0.00	0.00	0.02	0.00
9.66	1.81	0.00	0.00	0.02	0.00	9.68	1.84	0.00	0.00	0.02	0.00
9.70	1.88	0.00	0.00	0.02	0.00	9.72	1.94	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.22	2.00	0.00	0.00	0.02	0.00	10.24	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
10.26	2.00	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	1.95	0.00	0.00	0.02	0.00	10.32	1.90	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00
10.50	2.00	0.00	0.00	0.02	0.00	10.52	2.00	0.00	0.00	0.02	0.00
10.54	2.00	0.00	0.00	0.02	0.00	10.56	2.00	0.00	0.00	0.02	0.00
10.58	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.02	0.00
10.62	2.00	0.00	0.00	0.02	0.00	10.64	2.00	0.00	0.00	0.02	0.00
10.66	2.00	0.00	0.00	0.02	0.00	10.68	2.00	0.00	0.00	0.02	0.00
10.70	2.00	0.00	0.00	0.02	0.00	10.72	2.00	0.00	0.00	0.02	0.00
10.74	1.91	0.00	0.00	0.02	0.00	10.76	1.98	0.00	0.00	0.02	0.00
10.78	2.00	0.00	0.00	0.02	0.00	10.80	2.00	0.00	0.00	0.02	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.84	2.00	0.00	0.00	0.02	0.00
10.86	2.00	0.00	0.00	0.02	0.00	10.88	2.00	0.00	0.00	0.02	0.00
10.90	2.00	0.00	0.00	0.02	0.00	10.92	2.00	0.00	0.00	0.02	0.00
10.94	2.00	0.00	0.00	0.02	0.00	10.96	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.02	0.00	11.00	2.00	0.00	0.00	0.02	0.00
11.02	2.00	0.00	0.00	0.02	0.00	11.04	2.00	0.00	0.00	0.02	0.00
11.06	2.00	0.00	0.00	0.02	0.00	11.08	2.00	0.00	0.00	0.02	0.00
11.10	2.00	0.00	0.00	0.02	0.00	11.12	2.00	0.00	0.00	0.02	0.00
11.14	2.00	0.00	0.00	0.02	0.00	11.16	2.00	0.00	0.00	0.02	0.00
11.18	2.00	0.00	0.00	0.02	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.22	2.00	0.00	0.00	0.02	0.00	11.24	2.00	0.00	0.00	0.02	0.00
11.26	2.00	0.00	0.00	0.02	0.00	11.28	2.00	0.00	0.00	0.02	0.00
11.30	2.00	0.00	0.00	0.02	0.00	11.32	2.00	0.00	0.00	0.02	0.00
11.34	2.00	0.00	0.00	0.02	0.00	11.36	2.00	0.00	0.00	0.02	0.00
11.38	2.00	0.00	0.00	0.02	0.00	11.40	2.00	0.00	0.00	0.02	0.00
11.42	2.00	0.00	0.00	0.02	0.00	11.44	2.00	0.00	0.00	0.02	0.00
11.46	2.00	0.00	0.00	0.02	0.00	11.48	2.00	0.00	0.00	0.02	0.00
11.50	2.00	0.00	0.00	0.02	0.00	11.52	2.00	0.00	0.00	0.02	0.00
11.54	2.00	0.00	0.00	0.02	0.00	11.56	2.00	0.00	0.00	0.02	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.02	0.00
11.62	2.00	0.00	0.00	0.02	0.00	11.64	2.00	0.00	0.00	0.02	0.00
11.66	2.00	0.00	0.00	0.02	0.00	11.68	2.00	0.00	0.00	0.02	0.00
11.70	2.00	0.00	0.00	0.02	0.00	11.72	2.00	0.00	0.00	0.02	0.00
11.74	2.00	0.00	0.00	0.02	0.00	11.76	2.00	0.00	0.00	0.02	0.00
11.78	2.00	0.00	0.00	0.02	0.00	11.80	2.00	0.00	0.00	0.02	0.00
11.82	2.00	0.00	0.00	0.02	0.00	11.84	2.00	0.00	0.00	0.02	0.00
11.86	2.00	0.00	0.00	0.02	0.00	11.88	2.00	0.00	0.00	0.02	0.00
11.90	2.00	0.00	0.00	0.02	0.00	11.92	2.00	0.00	0.00	0.02	0.00
11.94	2.00	0.00	0.00	0.02	0.00	11.96	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.02	0.00	12.00	2.00	0.00	0.00	0.02	0.00
12.02	2.00	0.00	0.00	0.02	0.00	12.04	2.00	0.00	0.00	0.02	0.00
12.06	2.00	0.00	0.00	0.02	0.00	12.08	2.00	0.00	0.00	0.02	0.00
12.10	2.00	0.00	0.00	0.02	0.00	12.12	2.00	0.00	0.00	0.02	0.00
12.14	2.00	0.00	0.00	0.02	0.00	12.16	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
12.18	2.00	0.00	0.00	0.02	0.00	12.20	2.00	0.00	0.00	0.02	0.00
12.22	2.00	0.00	0.00	0.02	0.00	12.24	2.00	0.00	0.00	0.02	0.00
12.26	2.00	0.00	0.00	0.02	0.00	12.28	2.00	0.00	0.00	0.02	0.00
12.30	2.00	0.00	0.00	0.02	0.00	12.32	2.00	0.00	0.00	0.02	0.00
12.34	2.00	0.00	0.00	0.02	0.00	12.36	2.00	0.00	0.00	0.02	0.00
12.38	2.00	0.00	0.00	0.02	0.00	12.40	2.00	0.00	0.00	0.02	0.00
12.42	2.00	0.00	0.00	0.02	0.00	12.44	2.00	0.00	0.00	0.02	0.00
12.46	2.00	0.00	0.00	0.02	0.00	12.48	2.00	0.00	0.00	0.02	0.00
12.50	2.00	0.00	0.00	0.02	0.00	12.52	2.00	0.00	0.00	0.02	0.00
12.54	2.00	0.00	0.00	0.02	0.00	12.56	2.00	0.00	0.00	0.02	0.00
12.58	2.00	0.00	0.00	0.02	0.00	12.60	2.00	0.00	0.00	0.02	0.00
12.62	2.00	0.00	0.00	0.02	0.00	12.64	2.00	0.00	0.00	0.02	0.00
12.66	2.00	0.00	0.00	0.02	0.00	12.68	2.00	0.00	0.00	0.02	0.00
12.70	2.00	0.00	0.00	0.02	0.00	12.72	2.00	0.00	0.00	0.02	0.00
12.74	2.00	0.00	0.00	0.02	0.00	12.76	2.00	0.00	0.00	0.02	0.00
12.78	2.00	0.00	0.00	0.02	0.00	12.80	2.00	0.00	0.00	0.02	0.00
12.82	2.00	0.00	0.00	0.02	0.00	12.84	2.00	0.00	0.00	0.02	0.00
12.86	2.00	0.00	0.00	0.02	0.00	12.88	2.00	0.00	0.00	0.02	0.00
12.90	2.00	0.00	0.00	0.02	0.00	12.92	2.00	0.00	0.00	0.02	0.00
12.94	2.00	0.00	0.00	0.02	0.00	12.96	2.00	0.00	0.00	0.02	0.00
12.98	2.00	0.00	0.00	0.02	0.00	13.00	2.00	0.00	0.00	0.02	0.00
13.02	2.00	0.00	0.00	0.02	0.00	13.04	2.00	0.00	0.00	0.02	0.00
13.06	2.00	0.00	0.00	0.02	0.00	13.08	2.00	0.00	0.00	0.02	0.00
13.10	2.00	0.00	0.00	0.02	0.00	13.12	2.00	0.00	0.00	0.02	0.00
13.14	2.00	0.00	0.00	0.02	0.00	13.16	2.00	0.00	0.00	0.02	0.00
13.18	2.00	0.00	0.00	0.02	0.00	13.20	2.00	0.00	0.00	0.02	0.00
13.22	2.00	0.00	0.00	0.02	0.00	13.24	2.00	0.00	0.00	0.02	0.00
13.26	2.00	0.00	0.00	0.02	0.00	13.28	2.00	0.00	0.00	0.02	0.00
13.30	2.00	0.00	0.00	0.02	0.00	13.32	2.00	0.00	0.00	0.02	0.00
13.34	2.00	0.00	0.00	0.02	0.00	13.36	2.00	0.00	0.00	0.02	0.00
13.38	2.00	0.00	0.00	0.02	0.00	13.40	2.00	0.00	0.00	0.02	0.00
13.42	2.00	0.00	0.00	0.02	0.00	13.44	2.00	0.00	0.00	0.02	0.00
13.46	2.00	0.00	0.00	0.02	0.00	13.48	2.00	0.00	0.00	0.02	0.00
13.50	2.00	0.00	0.00	0.02	0.00	13.52	2.00	0.00	0.00	0.02	0.00
13.54	2.00	0.00	0.00	0.02	0.00	13.56	2.00	0.00	0.00	0.02	0.00
13.58	2.00	0.00	0.00	0.02	0.00	13.60	2.00	0.00	0.00	0.02	0.00
13.62	2.00	0.00	0.00	0.02	0.00	13.64	2.00	0.00	0.00	0.02	0.00
13.66	2.00	0.00	0.00	0.02	0.00	13.68	2.00	0.00	0.00	0.02	0.00
13.70	2.00	0.00	0.00	0.02	0.00	13.72	2.00	0.00	0.00	0.02	0.00
13.74	2.00	0.00	0.00	0.02	0.00	13.76	2.00	0.00	0.00	0.02	0.00
13.78	2.00	0.00	0.00	0.02	0.00	13.80	2.00	0.00	0.00	0.02	0.00
13.82	2.00	0.00	0.00	0.02	0.00	13.84	2.00	0.00	0.00	0.02	0.00
13.86	2.00	0.00	0.00	0.02	0.00	13.88	2.00	0.00	0.00	0.02	0.00
13.90	2.00	0.00	0.00	0.02	0.00	13.92	2.00	0.00	0.00	0.02	0.00
13.94	2.00	0.00	0.00	0.02	0.00	13.96	2.00	0.00	0.00	0.02	0.00
13.98	2.00	0.00	0.00	0.02	0.00	14.00	2.00	0.00	0.00	0.02	0.00
14.02	2.00	0.00	0.00	0.02	0.00	14.04	2.00	0.00	0.00	0.02	0.00
14.06	2.00	0.00	0.00	0.02	0.00	14.08	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
14.10	2.00	0.00	0.00	0.02	0.00	14.12	2.00	0.00	0.00	0.02	0.00
14.14	2.00	0.00	0.00	0.02	0.00	14.16	2.00	0.00	0.00	0.02	0.00
14.18	2.00	0.00	0.00	0.02	0.00	14.20	2.00	0.00	0.00	0.02	0.00
14.22	2.00	0.00	0.00	0.02	0.00	14.24	2.00	0.00	0.00	0.02	0.00
14.26	2.00	0.00	0.00	0.02	0.00	14.28	2.00	0.00	0.00	0.02	0.00
14.30	2.00	0.00	0.00	0.02	0.00	14.32	2.00	0.00	0.00	0.02	0.00
14.34	2.00	0.00	0.00	0.02	0.00	14.36	2.00	0.00	0.00	0.02	0.00
14.38	2.00	0.00	0.00	0.02	0.00	14.40	2.00	0.00	0.00	0.02	0.00
14.42	2.00	0.00	0.00	0.02	0.00	14.44	2.00	0.00	0.00	0.02	0.00
14.46	2.00	0.00	0.00	0.02	0.00	14.48	2.00	0.00	0.00	0.02	0.00
14.50	2.00	0.00	0.00	0.02	0.00	14.52	2.00	0.00	0.00	0.02	0.00
14.54	2.00	0.00	0.00	0.02	0.00	14.56	2.00	0.00	0.00	0.02	0.00
14.58	2.00	0.00	0.00	0.02	0.00	14.60	2.00	0.00	0.00	0.02	0.00
14.62	2.00	0.00	0.00	0.02	0.00	14.64	2.00	0.00	0.00	0.02	0.00
14.66	2.00	0.00	0.00	0.02	0.00	14.68	2.00	0.00	0.00	0.02	0.00
14.70	2.00	0.00	0.00	0.02	0.00	14.72	2.00	0.00	0.00	0.02	0.00
14.74	2.00	0.00	0.00	0.02	0.00	14.76	2.00	0.00	0.00	0.02	0.00
14.78	2.00	0.00	0.00	0.02	0.00	14.80	2.00	0.00	0.00	0.02	0.00
14.82	2.00	0.00	0.00	0.02	0.00	14.84	2.00	0.00	0.00	0.02	0.00
14.86	2.00	0.00	0.00	0.02	0.00	14.88	2.00	0.00	0.00	0.02	0.00
14.90	2.00	0.00	0.00	0.02	0.00	14.92	2.00	0.00	0.00	0.02	0.00
14.94	2.00	0.00	0.00	0.02	0.00						

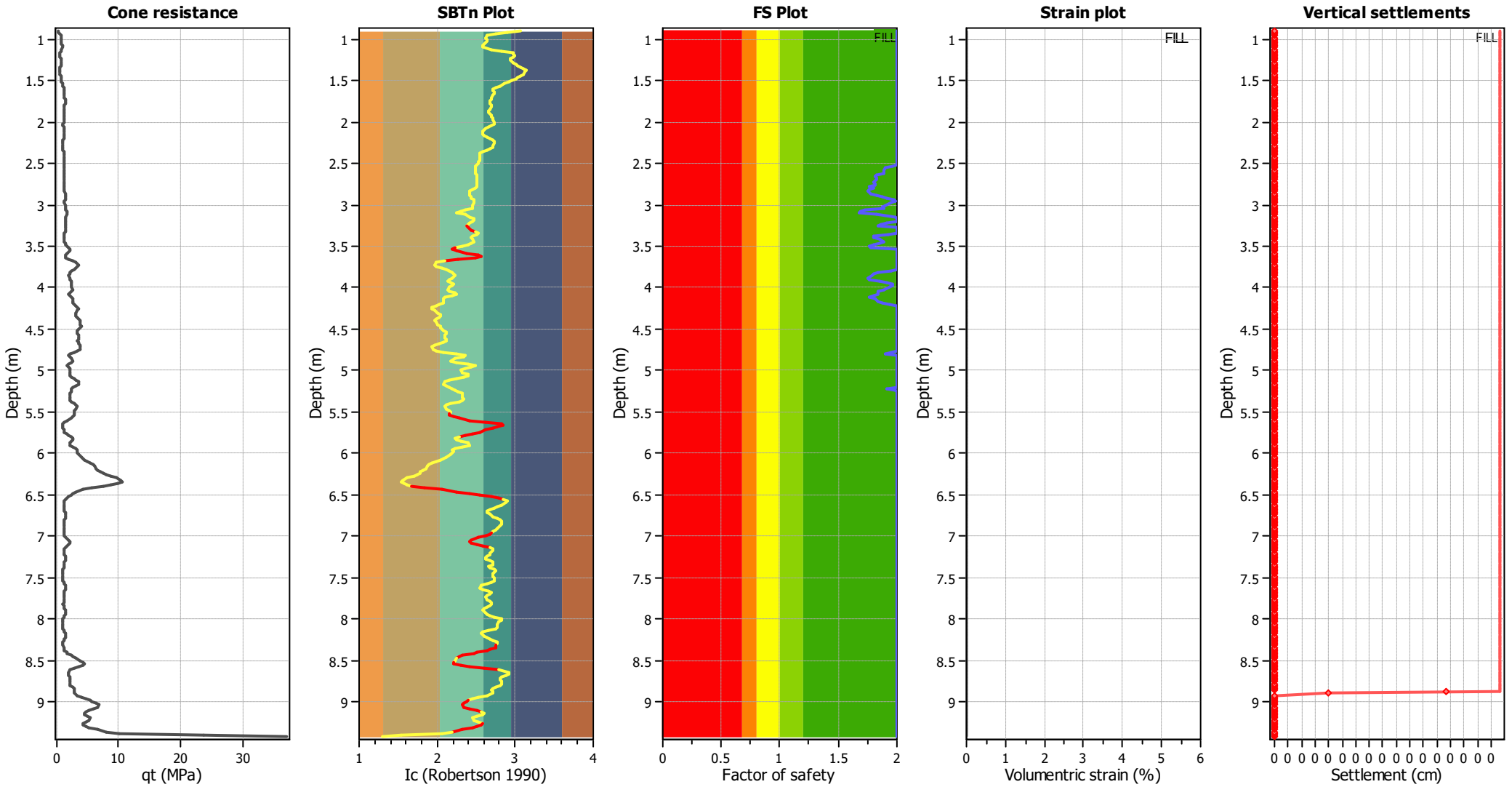
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
6.42	55.69	2.00	0.00	0.64	0.00	6.44	57.42	2.00	0.00	0.64	0.00
6.46	57.79	2.00	0.00	0.64	0.00	6.48	100.16	2.00	0.00	0.64	0.00
6.50	83.66	2.00	0.00	0.64	0.00	6.52	98.42	2.00	0.00	0.64	0.00
6.54	100.03	2.00	0.00	0.64	0.00	6.56	91.60	2.00	0.00	0.64	0.00
6.58	85.56	2.00	0.00	0.63	0.00	6.60	81.84	2.00	0.00	0.63	0.00
6.62	85.18	2.00	0.00	0.63	0.00	6.64	80.70	2.00	0.00	0.63	0.00
6.66	88.75	2.00	0.00	0.63	0.00	6.68	97.64	2.00	0.00	0.63	0.00
6.70	92.20	2.00	0.00	0.63	0.00	6.72	95.75	2.00	0.00	0.63	0.00
6.74	98.35	2.00	0.00	0.63	0.00	6.76	99.57	2.00	0.00	0.62	0.00
6.78	102.61	2.00	0.00	0.62	0.00	6.80	107.92	2.00	0.00	0.62	0.00
6.82	113.19	2.00	0.00	0.62	0.00	6.84	118.31	2.00	0.00	0.62	0.00
6.86	123.33	2.00	0.00	0.62	0.00	6.88	128.28	2.00	0.00	0.62	0.00
6.90	131.51	2.00	0.00	0.62	0.00	6.92	131.49	2.00	0.00	0.62	0.00
6.94	129.93	2.00	0.00	0.61	0.00	6.96	127.92	2.00	0.00	0.61	0.00
6.98	126.89	2.00	0.00	0.61	0.00	7.00	125.42	2.00	0.00	0.61	0.00
7.02	124.10	2.00	0.00	0.61	0.00	7.04	123.47	2.00	0.00	0.61	0.00
7.06	122.98	2.00	0.00	0.61	0.00	7.08	120.39	2.00	0.00	0.61	0.00
7.10	117.45	2.00	0.00	0.61	0.00	7.12	116.29	2.00	0.00	0.60	0.00
7.14	118.84	2.00	0.00	0.60	0.00	7.16	121.73	2.00	0.00	0.60	0.00
7.18	123.31	2.00	0.00	0.60	0.00	7.20	123.26	2.00	0.00	0.60	0.00
7.22	123.23	2.00	0.00	0.60	0.00	7.24	259.38	2.00	0.00	0.60	0.00
7.26	248.90	2.00	0.00	0.60	0.00	7.28	236.70	2.00	0.00	0.60	0.00
7.30	235.23	2.00	0.00	0.59	0.00	7.32	246.48	2.00	0.00	0.59	0.00
7.34	117.72	2.00	0.00	0.59	0.00	7.36	219.95	2.00	0.00	0.59	0.00
7.38	196.25	2.00	0.00	0.59	0.00	7.40	193.51	2.00	0.00	0.59	0.00
7.42	228.71	2.00	0.00	0.59	0.00	7.44	113.61	2.00	0.00	0.59	0.00
7.46	110.70	2.00	0.00	0.59	0.00	7.48	108.94	2.00	0.00	0.58	0.00
7.50	109.02	2.00	0.00	0.58	0.00	7.52	108.86	2.00	0.00	0.58	0.00
7.54	106.57	2.00	0.00	0.58	0.00	7.56	101.12	2.00	0.00	0.58	0.00
7.58	180.26	2.00	0.00	0.58	0.00	7.60	146.78	2.00	0.00	0.58	0.00
7.62	124.79	2.00	0.00	0.58	0.00	7.64	113.69	2.00	0.00	0.58	0.00
7.66	111.72	2.00	0.00	0.57	0.00	7.68	128.47	2.00	0.00	0.57	0.00
7.70	156.41	2.00	0.00	0.57	0.00	7.72	197.25	2.00	0.00	0.57	0.00
7.74	100.72	2.00	0.00	0.57	0.00	7.76	102.04	2.00	0.00	0.57	0.00
7.78	101.96	2.00	0.00	0.57	0.00	7.80	99.17	2.00	0.00	0.57	0.00
7.82	96.21	2.00	0.00	0.57	0.00	7.84	186.04	2.00	0.00	0.56	0.00
7.86	148.28	2.00	0.00	0.56	0.00	7.88	111.44	2.00	0.00	0.56	0.00
7.90	93.67	2.00	0.00	0.56	0.00	7.92	95.58	2.00	0.00	0.56	0.00
7.94	101.07	2.00	0.00	0.56	0.00	7.96	98.35	2.00	0.00	0.56	0.00
7.98	92.12	2.00	0.00	0.56	0.00	8.00	87.84	2.00	0.00	0.56	0.00
8.02	82.90	2.00	0.00	0.55	0.00	8.04	75.21	2.00	0.00	0.55	0.00
8.06	70.29	1.96	0.00	0.55	0.00	8.08	68.20	1.91	0.00	0.55	0.00
8.10	67.24	1.88	0.00	0.55	0.00	8.12	67.50	1.89	0.00	0.55	0.00
8.14	67.54	1.89	0.00	0.55	0.00	8.16	64.51	1.82	0.00	0.55	0.00
8.18	64.36	1.82	0.00	0.55	0.00	8.20	64.76	1.82	0.00	0.54	0.00
8.22	64.63	1.82	0.00	0.54	0.00	8.24	63.54	1.80	0.00	0.54	0.00
8.26	64.38	1.81	0.00	0.54	0.00	8.28	64.38	1.81	0.00	0.54	0.00
8.30	61.93	1.76	0.00	0.54	0.00	8.32	63.73	1.80	0.00	0.54	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
8.34	62.19	1.76	0.00	0.54	0.00	8.36	61.76	1.76	0.00	0.54	0.00
8.38	62.93	1.78	0.00	0.53	0.00	8.40	65.41	1.82	0.00	0.53	0.00
8.42	68.05	1.88	0.00	0.53	0.00	8.44	69.76	1.92	0.00	0.53	0.00
8.46	72.19	1.97	0.00	0.53	0.00	8.48	72.67	1.98	0.00	0.53	0.00
8.50	71.58	1.96	0.00	0.53	0.00	8.52	69.42	1.90	0.00	0.53	0.00
8.54	68.49	1.88	0.00	0.53	0.00	8.56	68.70	1.88	0.00	0.52	0.00
8.58	61.02	1.73	0.00	0.52	0.00	8.60	59.04	1.69	0.00	0.52	0.00
8.62	58.20	1.68	0.00	0.52	0.00	8.64	66.54	1.83	0.00	0.52	0.00
8.66	73.49	1.99	0.00	0.52	0.00	8.68	79.27	2.00	0.00	0.52	0.00
8.70	78.23	2.00	0.00	0.52	0.00	8.72	74.83	2.00	0.00	0.52	0.00
8.74	70.40	1.91	0.00	0.51	0.00	8.76	68.38	1.86	0.00	0.51	0.00
8.78	67.38	1.84	0.00	0.51	0.00	8.80	69.05	2.00	0.00	0.51	0.00
8.82	71.62	2.00	0.00	0.51	0.00	8.84	77.86	2.00	0.00	0.51	0.00
8.86	80.32	2.00	0.00	0.51	0.00	8.88	71.07	1.92	0.00	0.51	0.00
8.90	65.91	1.80	0.00	0.51	0.00	8.92	65.72	1.80	0.00	0.50	0.00
8.94	68.03	1.85	0.00	0.50	0.00	8.96	69.94	1.89	0.00	0.50	0.00
8.98	68.20	1.85	0.00	0.50	0.00	9.00	66.25	1.81	0.00	0.50	0.00
9.02	64.02	1.76	0.00	0.50	0.00	9.04	64.85	1.78	0.00	0.50	0.00
9.06	66.74	2.00	0.00	0.50	0.00	9.08	71.08	2.00	0.00	0.50	0.00
9.10	78.38	2.00	0.00	0.49	0.00	9.12	96.55	2.00	0.00	0.49	0.00
9.14	114.31	2.00	0.00	0.49	0.00	9.16	81.91	2.00	0.00	0.49	0.00
9.18	68.54	2.00	0.00	0.49	0.00	9.20	70.83	2.00	0.00	0.49	0.00
9.22	79.61	2.00	0.00	0.49	0.00	9.24	86.51	2.00	0.00	0.49	0.00
9.26	87.32	2.00	0.00	0.49	0.00	9.28	84.67	2.00	0.00	0.48	0.00
9.30	79.05	2.00	0.00	0.48	0.00	9.32	73.04	1.95	0.00	0.48	0.00
9.34	68.69	1.84	0.00	0.48	0.00	9.36	66.80	1.80	0.00	0.48	0.00
9.38	66.41	1.79	0.00	0.48	0.00	9.40	64.19	1.75	0.00	0.48	0.00
9.42	65.15	1.77	0.00	0.48	0.00	9.44	69.01	1.85	0.00	0.48	0.00
9.46	71.99	1.91	0.00	0.47	0.00	9.48	74.09	1.96	0.00	0.47	0.00
9.50	74.09	1.96	0.00	0.47	0.00	9.52	73.25	1.94	0.00	0.47	0.00
9.54	71.32	1.89	0.00	0.47	0.00	9.56	68.88	1.84	0.00	0.47	0.00
9.58	68.88	1.84	0.00	0.47	0.00	9.60	69.06	1.84	0.00	0.47	0.00
9.62	67.03	1.80	0.00	0.47	0.00	9.64	65.51	1.76	0.00	0.46	0.00
9.66	67.81	1.81	0.00	0.46	0.00	9.68	69.21	1.84	0.00	0.46	0.00
9.70	71.05	1.88	0.00	0.46	0.00	9.72	73.39	1.94	0.00	0.46	0.00
9.74	77.02	2.00	0.00	0.46	0.00	9.76	82.00	2.00	0.00	0.46	0.00
9.78	85.11	2.00	0.00	0.46	0.00	9.80	83.32	2.00	0.00	0.46	0.00
9.82	80.94	2.00	0.00	0.45	0.00	9.84	78.98	2.00	0.00	0.45	0.00
9.86	82.20	2.00	0.00	0.45	0.00	9.88	87.04	2.00	0.00	0.45	0.00
9.90	90.86	2.00	0.00	0.45	0.00	9.92	94.66	2.00	0.00	0.45	0.00
9.94	97.24	2.00	0.00	0.45	0.00	9.96	100.31	2.00	0.00	0.45	0.00
9.98	102.17	2.00	0.00	0.45	0.00	10.00	100.01	2.00	0.00	0.44	0.00
10.02	96.20	2.00	0.00	0.44	0.00	10.04	90.61	2.00	0.00	0.44	0.00
10.06	90.07	2.00	0.00	0.44	0.00	10.08	92.86	2.00	0.00	0.44	0.00
10.10	96.95	2.00	0.00	0.44	0.00	10.12	98.32	2.00	0.00	0.44	0.00
10.14	97.83	2.00	0.00	0.44	0.00	10.16	96.86	2.00	0.00	0.44	0.00
10.18	94.84	2.00	0.00	0.43	0.00	10.20	91.63	2.00	0.00	0.43	0.00
10.22	89.40	2.00	0.00	0.43	0.00	10.24	89.34	2.00	0.00	0.43	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
10.26	87.92	2.00	0.00	0.43	0.00	10.28	82.96	2.00	0.00	0.43	0.00
10.30	74.71	1.95	0.00	0.43	0.00	10.32	72.47	1.90	0.00	0.43	0.00
10.34	78.96	2.00	0.00	0.43	0.00	10.36	82.58	2.00	0.00	0.42	0.00
10.38	77.57	2.00	0.00	0.42	0.00	10.40	76.94	2.00	0.00	0.42	0.00
10.42	80.02	2.00	0.00	0.42	0.00	10.44	89.91	2.00	0.00	0.42	0.00
10.46	98.18	2.00	0.00	0.42	0.00	10.48	92.78	2.00	0.00	0.42	0.00
10.50	87.08	2.00	0.00	0.42	0.00	10.52	83.43	2.00	0.00	0.42	0.00
10.54	87.33	2.00	0.00	0.41	0.00	10.56	93.31	2.00	0.00	0.41	0.00
10.58	96.54	2.00	0.00	0.41	0.00	10.60	94.65	2.00	0.00	0.41	0.00
10.62	93.79	2.00	0.00	0.41	0.00	10.64	91.11	2.00	0.00	0.41	0.00
10.66	91.38	2.00	0.00	0.41	0.00	10.68	88.94	2.00	0.00	0.41	0.00
10.70	83.22	2.00	0.00	0.41	0.00	10.72	77.32	2.00	0.00	0.40	0.00
10.74	73.31	1.91	0.00	0.40	0.00	10.76	76.17	1.98	0.00	0.40	0.00
10.78	80.41	2.00	0.00	0.40	0.00	10.80	85.12	2.00	0.00	0.40	0.00
10.82	85.84	2.00	0.00	0.40	0.00	10.84	85.49	2.00	0.00	0.40	0.00
10.86	85.67	2.00	0.00	0.40	0.00	10.88	83.56	2.00	0.00	0.40	0.00
10.90	83.86	2.00	0.00	0.39	0.00	10.92	81.04	2.00	0.00	0.39	0.00
10.94	81.91	2.00	0.00	0.39	0.00	10.96	80.07	2.00	0.00	0.39	0.00
10.98	77.84	2.00	0.00	0.39	0.00	11.00	76.82	2.00	0.00	0.39	0.00
11.02	79.19	2.00	0.00	0.39	0.00	11.04	78.47	2.00	0.00	0.39	0.00
11.06	79.20	2.00	0.00	0.39	0.00	11.08	77.16	2.00	0.00	0.38	0.00
11.10	79.37	2.00	0.00	0.38	0.00	11.12	84.24	2.00	0.00	0.38	0.00
11.14	161.88	2.00	0.00	0.38	0.00	11.16	109.04	2.00	0.00	0.38	0.00
11.18	103.28	2.00	0.00	0.38	0.00	11.20	88.03	2.00	0.00	0.38	0.00
11.22	81.16	2.00	0.00	0.38	0.00	11.24	126.55	2.00	0.00	0.38	0.00
11.26	93.30	2.00	0.00	0.37	0.00	11.28	78.46	2.00	0.00	0.37	0.00
11.30	76.10	2.00	0.00	0.37	0.00	11.32	76.09	2.00	0.00	0.37	0.00
11.34	77.72	2.00	0.00	0.37	0.00	11.36	79.84	2.00	0.00	0.37	0.00
11.38	84.23	2.00	0.00	0.37	0.00	11.40	92.19	2.00	0.00	0.37	0.00
11.42	95.30	2.00	0.00	0.37	0.00	11.44	90.82	2.00	0.00	0.36	0.00
11.46	89.87	2.00	0.00	0.36	0.00	11.48	92.78	2.00	0.00	0.36	0.00
11.50	93.22	2.00	0.00	0.36	0.00	11.52	92.37	2.00	0.00	0.36	0.00
11.54	93.55	2.00	0.00	0.36	0.00	11.56	95.61	2.00	0.00	0.36	0.00
11.58	98.26	2.00	0.00	0.36	0.00	11.60	99.59	2.00	0.00	0.36	0.00
11.62	103.75	2.00	0.00	0.35	0.00	11.64	109.19	2.00	0.00	0.35	0.00
11.66	113.71	2.00	0.00	0.35	0.00	11.68	115.18	2.00	0.00	0.35	0.00
11.70	116.14	2.00	0.00	0.35	0.00	11.72	117.00	2.00	0.00	0.35	0.00
11.74	119.29	2.00	0.00	0.35	0.00	11.76	126.01	2.00	0.00	0.35	0.00
11.78	129.86	2.00	0.00	0.35	0.00	11.80	128.89	2.00	0.00	0.34	0.00
11.82	138.70	2.00	0.00	0.34	0.00	11.84	146.20	2.00	0.00	0.34	0.00
11.86	147.40	2.00	0.00	0.34	0.00	11.88	136.90	2.00	0.00	0.34	0.00
11.90	122.63	2.00	0.00	0.34	0.00	11.92	106.66	2.00	0.00	0.34	0.00
11.94	101.53	2.00	0.00	0.34	0.00	11.96	89.58	2.00	0.00	0.34	0.00
11.98	90.43	2.00	0.00	0.33	0.00	12.00	110.70	2.00	0.00	0.33	0.00
12.02	148.62	2.00	0.00	0.33	0.00	12.04	331.62	2.00	0.00	0.33	0.00
12.06	166.45	2.00	0.00	0.33	0.00	12.08	164.79	2.00	0.00	0.33	0.00
12.10	159.45	2.00	0.00	0.33	0.00	12.12	147.14	2.00	0.00	0.33	0.00
12.14	130.97	2.00	0.00	0.33	0.00	12.16	113.23	2.00	0.00	0.32	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
12.18	101.74	2.00	0.00	0.32	0.00	12.20	184.80	2.00	0.00	0.32	0.00
12.22	154.56	2.00	0.00	0.32	0.00	12.24	171.32	2.00	0.00	0.32	0.00
12.26	214.02	2.00	0.00	0.32	0.00	12.28	124.03	2.00	0.00	0.32	0.00
12.30	126.64	2.00	0.00	0.32	0.00	12.32	129.48	2.00	0.00	0.32	0.00
12.34	127.59	2.00	0.00	0.31	0.00	12.36	125.71	2.00	0.00	0.31	0.00
12.38	121.85	2.00	0.00	0.31	0.00	12.40	113.99	2.00	0.00	0.31	0.00
12.42	105.15	2.00	0.00	0.31	0.00	12.44	96.79	2.00	0.00	0.31	0.00
12.46	89.82	2.00	0.00	0.31	0.00	12.48	176.19	2.00	0.00	0.31	0.00
12.50	164.37	2.00	0.00	0.31	0.00	12.52	132.51	2.00	0.00	0.30	0.00
12.54	87.34	2.00	0.00	0.30	0.00	12.56	77.07	2.00	0.00	0.30	0.00
12.58	82.59	2.00	0.00	0.30	0.00	12.60	89.39	2.00	0.00	0.30	0.00
12.62	88.53	2.00	0.00	0.30	0.00	12.64	135.25	2.00	0.00	0.30	0.00
12.66	197.47	2.00	0.00	0.30	0.00	12.68	102.24	2.00	0.00	0.30	0.00
12.70	95.12	2.00	0.00	0.29	0.00	12.72	177.22	2.00	0.00	0.29	0.00
12.74	174.28	2.00	0.00	0.29	0.00	12.76	156.48	2.00	0.00	0.29	0.00
12.78	136.00	2.00	0.00	0.29	0.00	12.80	144.54	2.00	0.00	0.29	0.00
12.82	189.73	2.00	0.00	0.29	0.00	12.84	94.17	2.00	0.00	0.29	0.00
12.86	85.55	2.00	0.00	0.29	0.00	12.88	140.31	2.00	0.00	0.28	0.00
12.90	159.88	2.00	0.00	0.28	0.00	12.92	83.31	2.00	0.00	0.28	0.00
12.94	84.60	2.00	0.00	0.28	0.00	12.96	82.44	2.00	0.00	0.28	0.00
12.98	79.67	2.00	0.00	0.28	0.00	13.00	80.17	2.00	0.00	0.28	0.00
13.02	81.08	2.00	0.00	0.28	0.00	13.04	82.27	2.00	0.00	0.28	0.00
13.06	81.42	2.00	0.00	0.27	0.00	13.08	166.90	2.00	0.00	0.27	0.00
13.10	121.76	2.00	0.00	0.27	0.00	13.12	91.78	2.00	0.00	0.27	0.00
13.14	89.33	2.00	0.00	0.27	0.00	13.16	108.34	2.00	0.00	0.27	0.00
13.18	146.86	2.00	0.00	0.27	0.00	13.20	175.39	2.00	0.00	0.27	0.00
13.22	162.99	2.00	0.00	0.27	0.00	13.24	130.35	2.00	0.00	0.26	0.00
13.26	113.77	2.00	0.00	0.26	0.00	13.28	130.59	2.00	0.00	0.26	0.00
13.30	153.16	2.00	0.00	0.26	0.00	13.32	166.09	2.00	0.00	0.26	0.00
13.34	152.21	2.00	0.00	0.26	0.00	13.36	141.93	2.00	0.00	0.26	0.00
13.38	120.79	2.00	0.00	0.26	0.00	13.40	98.01	2.00	0.00	0.26	0.00
13.42	99.43	2.00	0.00	0.25	0.00	13.44	121.24	2.00	0.00	0.25	0.00
13.46	134.15	2.00	0.00	0.25	0.00	13.48	166.51	2.00	0.00	0.25	0.00
13.50	83.31	2.00	0.00	0.25	0.00	13.52	84.79	2.00	0.00	0.25	0.00
13.54	79.79	2.00	0.00	0.25	0.00	13.56	74.57	2.00	0.00	0.25	0.00
13.58	72.70	2.00	0.00	0.25	0.00	13.60	73.75	2.00	0.00	0.24	0.00
13.62	74.55	2.00	0.00	0.24	0.00	13.64	72.84	2.00	0.00	0.24	0.00
13.66	120.55	2.00	0.00	0.24	0.00	13.68	84.57	2.00	0.00	0.24	0.00
13.70	82.97	2.00	0.00	0.24	0.00	13.72	111.06	2.00	0.00	0.24	0.00
13.74	133.32	2.00	0.00	0.24	0.00	13.76	155.10	2.00	0.00	0.24	0.00
13.78	81.33	2.00	0.00	0.23	0.00	13.80	82.53	2.00	0.00	0.23	0.00
13.82	81.97	2.00	0.00	0.23	0.00	13.84	81.43	2.00	0.00	0.23	0.00
13.86	82.84	2.00	0.00	0.23	0.00	13.88	155.58	2.00	0.00	0.23	0.00
13.90	125.58	2.00	0.00	0.23	0.00	13.92	68.59	2.00	0.00	0.23	0.00
13.94	65.97	2.00	0.00	0.23	0.00	13.96	63.91	2.00	0.00	0.22	0.00
13.98	67.46	2.00	0.00	0.22	0.00	14.00	73.89	2.00	0.00	0.22	0.00
14.02	83.64	2.00	0.00	0.22	0.00	14.04	94.66	2.00	0.00	0.22	0.00
14.06	101.48	2.00	0.00	0.22	0.00	14.08	109.04	2.00	0.00	0.22	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
14.10	120.87	2.00	0.00	0.22	0.00	14.12	222.54	2.00	0.00	0.22	0.00
14.14	179.83	2.00	0.00	0.21	0.00	14.16	201.05	2.00	0.00	0.21	0.00
14.18	203.27	2.00	0.00	0.21	0.00	14.20	197.95	2.00	0.00	0.21	0.00
14.22	191.41	2.00	0.00	0.21	0.00	14.24	190.44	2.00	0.00	0.21	0.00
14.26	190.47	2.00	0.00	0.21	0.00	14.28	190.03	2.00	0.00	0.21	0.00
14.30	190.88	2.00	0.00	0.21	0.00	14.32	191.67	2.00	0.00	0.20	0.00
14.34	190.46	2.00	0.00	0.20	0.00	14.36	187.33	2.00	0.00	0.20	0.00
14.38	401.58	2.00	0.00	0.20	0.00	14.40	189.56	2.00	0.00	0.20	0.00
14.42	192.77	2.00	0.00	0.20	0.00	14.44	324.40	2.00	0.00	0.20	0.00
14.46	189.61	2.00	0.00	0.20	0.00	14.48	170.37	2.00	0.00	0.20	0.00
14.50	169.06	2.00	0.00	0.19	0.00	14.52	176.01	2.00	0.00	0.19	0.00
14.54	178.23	2.00	0.00	0.19	0.00	14.56	180.12	2.00	0.00	0.19	0.00
14.58	183.02	2.00	0.00	0.19	0.00	14.60	193.71	2.00	0.00	0.19	0.00
14.62	206.28	2.00	0.00	0.19	0.00	14.64	280.82	2.00	0.00	0.19	0.00
14.66	329.81	2.00	0.00	0.19	0.00	14.68	281.26	2.00	0.00	0.18	0.00
14.70	197.44	2.00	0.00	0.18	0.00	14.72	189.42	2.00	0.00	0.18	0.00
14.74	191.29	2.00	0.00	0.18	0.00	14.76	209.71	2.00	0.00	0.18	0.00
14.78	264.73	2.00	0.00	0.18	0.00	14.80	248.97	2.00	0.00	0.18	0.00
14.82	187.33	2.00	0.00	0.18	0.00	14.84	177.54	2.00	0.00	0.18	0.00
14.86	166.55	2.00	0.00	0.17	0.00	14.88	162.72	2.00	0.00	0.17	0.00
14.90	169.53	2.00	0.00	0.17	0.00	14.92	275.25	2.00	0.00	0.17	0.00
14.94	415.53	2.00	0.00	0.17	0.00						

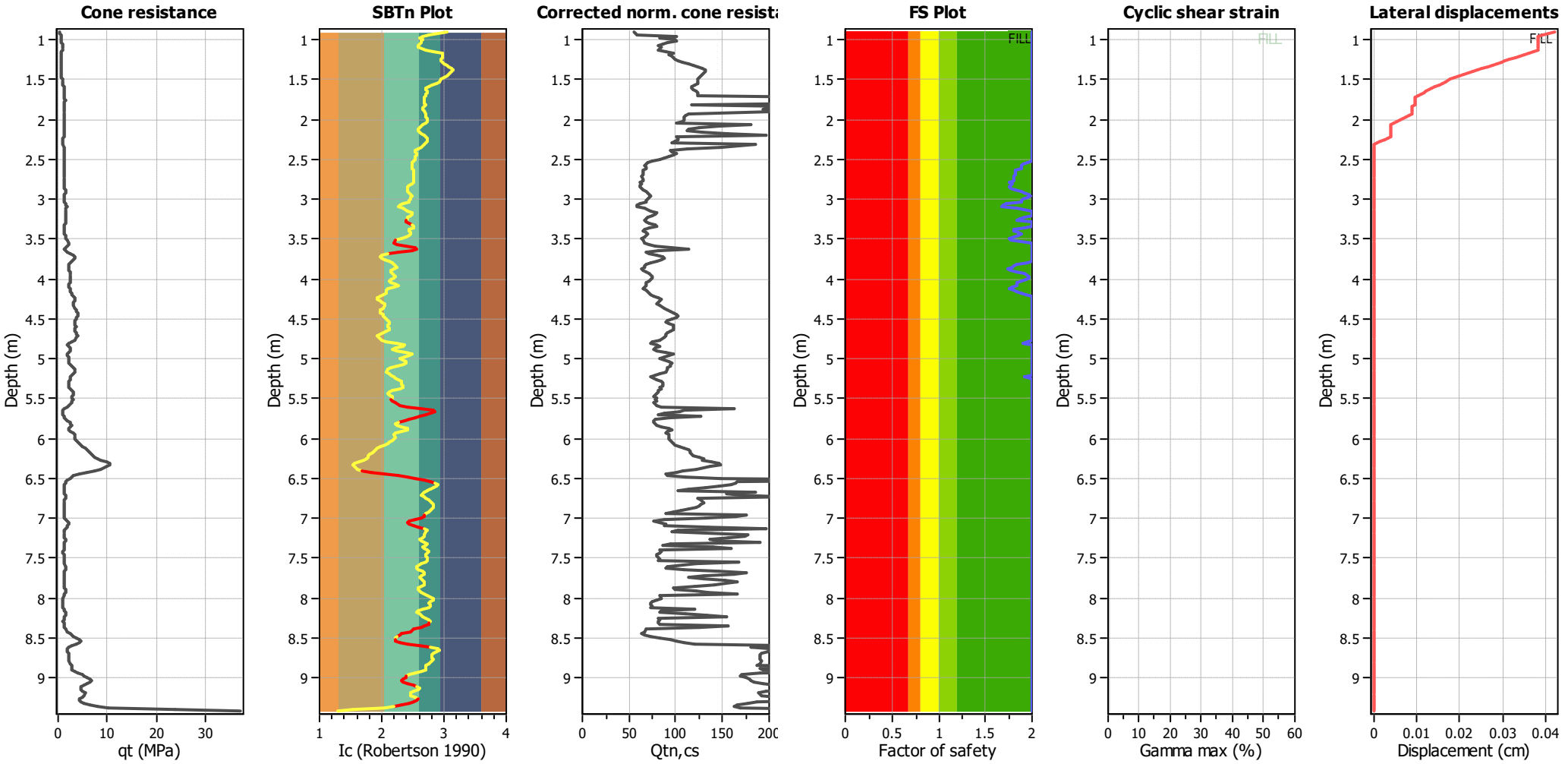
Total estimated settlement: 0.00

Abbreviations

$Q_{tn,cs}$: Equivalent clean sand normalized cone resistance
FS: Factor of safety against liquefaction
e_v (%): Post-liquefaction volumentric strain
DF: e_v depth weighting factor
Settlement: Calculated settlement

Estimation of post-earthquake lateral Displacements

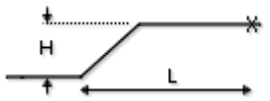
Geometric parameters: Level ground (or gently sloping) with free face (L: 72.00 m - H: 4.60 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.42	0.30	5.65	1.47	55.69	2.00	0.00	0.12	0.00
6.44	0.41	7.87	1.30	57.42	2.00	0.00	0.10	0.00
6.46	0.56	10.79	1.15	57.79	2.00	0.00	0.09	0.00
6.48	0.70	13.57	1.04	100.16	2.00	1.09	0.00	0.00
6.50	0.74	14.31	0.96	83.66	2.00	2.82	0.00	0.00
6.52	0.70	13.48	1.02	98.42	2.00	0.86	0.00	0.00
6.54	0.71	13.76	1.05	100.03	2.00	1.53	0.00	0.00
6.56	0.75	14.47	1.04	91.60	2.00	3.21	0.00	0.00
6.58	0.82	15.98	1.10	85.56	2.00	6.47	0.00	0.00
6.60	0.89	17.25	1.16	81.84	2.00	8.99	0.00	0.00
6.62	0.92	17.94	1.24	85.18	2.00	10.30	0.00	0.00
6.64	0.88	17.02	1.94	80.70	2.00	8.55	0.07	0.00
6.66	0.75	14.43	2.47	88.75	2.00	3.10	0.07	0.00
6.68	0.61	11.79	3.30	97.64	2.00	0.00	0.08	0.00
6.70	0.57	10.92	3.08	92.20	2.00	0.00	0.09	0.00
6.72	0.58	11.17	3.28	95.75	2.00	0.00	0.09	0.00
6.74	0.62	11.90	3.33	98.35	2.00	0.00	0.08	0.00
6.76	0.66	12.62	3.30	99.57	2.00	0.00	0.08	0.00
6.78	0.68	13.04	3.43	102.61	2.00	0.00	0.08	0.00
6.80	0.67	12.93	3.79	107.92	2.00	0.00	0.08	0.00
6.82	0.67	12.76	4.19	113.19	2.00	0.00	0.08	0.00
6.84	0.66	12.55	4.61	118.31	2.00	0.00	0.08	0.00
6.86	0.64	12.25	5.08	123.33	2.00	0.00	0.08	0.00
6.88	0.62	11.83	5.62	128.28	2.00	0.00	0.08	0.00
6.90	0.61	11.55	6.00	131.51	2.00	0.00	0.08	0.00
6.92	0.61	11.65	5.96	131.49	2.00	0.00	0.08	0.00
6.94	0.63	12.07	5.67	129.93	2.00	0.00	0.08	0.00
6.96	0.66	12.64	5.32	127.92	2.00	0.00	0.08	0.00
6.98	0.70	13.38	5.04	126.89	2.00	0.60	0.08	0.00
7.00	0.74	14.19	4.75	125.42	2.00	2.55	0.08	0.00
7.02	0.79	15.23	4.45	124.10	2.00	4.89	0.07	0.00
7.04	0.86	16.58	4.20	123.47	2.00	7.68	0.07	0.00
7.06	0.94	18.05	3.98	122.98	2.00	10.50	0.06	0.00
7.08	1.05	20.33	3.62	120.39	2.00	14.42	0.06	0.00
7.10	1.15	22.28	3.33	117.45	2.00	17.44	0.05	0.00
7.12	1.24	23.93	3.18	116.29	2.00	19.80	0.05	0.00
7.14	1.25	24.23	3.27	118.84	2.00	20.21	0.05	0.00
7.16	1.26	24.40	3.39	121.73	2.00	20.44	0.05	0.00
7.18	1.28	24.79	3.44	123.31	2.00	20.97	0.05	0.00
7.20	1.32	25.48	3.40	123.26	2.00	21.88	0.05	0.00
7.22	1.34	26.00	3.37	123.23	2.00	22.54	0.05	0.00
7.24	1.36	26.42	3.33	259.38	2.00	23.07	0.00	0.00
7.26	1.38	26.73	3.27	248.90	2.00	23.45	0.00	0.00
7.28	1.39	26.92	3.19	236.70	2.00	23.68	0.00	0.00
7.30	1.37	26.51	3.15	235.23	2.00	23.18	0.00	0.00
7.32	1.33	25.64	3.17	246.48	2.00	22.07	0.00	0.00
7.34	1.29	24.91	3.18	117.72	2.00	21.13	0.05	0.00
7.36	1.27	24.45	2.87	219.95	2.00	20.51	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
7.38	1.32	25.55	2.77	196.25	2.00	21.97	0.00	0.00
7.40	1.33	25.65	2.75	193.51	2.00	22.09	0.00	0.00
7.42	1.32	25.53	3.02	228.71	2.00	21.94	0.00	0.00
7.44	1.25	24.08	3.04	113.61	2.00	20.00	0.05	0.00
7.46	1.21	23.35	2.95	110.70	2.00	18.99	0.05	0.00
7.48	1.18	22.74	2.90	108.94	2.00	18.12	0.05	0.00
7.50	1.15	22.17	2.93	109.02	2.00	17.28	0.05	0.00
7.52	1.13	21.62	2.95	108.86	2.00	16.45	0.06	0.00
7.54	1.11	21.31	2.86	106.57	2.00	15.98	0.06	0.00
7.56	1.12	21.40	2.61	101.12	2.00	16.11	0.06	0.00
7.58	1.14	21.88	2.35	180.26	2.00	16.84	0.00	0.00
7.60	1.17	22.52	2.12	146.78	2.00	17.79	0.00	0.00
7.62	1.20	23.07	1.96	124.79	2.00	18.59	0.00	0.00
7.64	1.22	23.49	1.87	113.69	2.00	19.19	0.00	0.00
7.66	1.24	23.77	1.87	111.72	2.00	19.57	0.00	0.00
7.68	1.23	23.56	2.02	128.47	2.00	19.29	0.00	0.00
7.70	1.19	22.81	2.22	156.41	2.00	18.22	0.00	0.00
7.72	1.14	21.77	2.47	197.25	2.00	16.67	0.00	0.00
7.74	1.09	20.82	2.62	100.72	2.00	15.20	0.06	0.00
7.76	1.06	20.33	2.70	102.04	2.00	14.41	0.06	0.00
7.78	1.05	20.05	2.71	101.96	2.00	13.96	0.06	0.00
7.80	1.05	20.09	2.58	99.17	2.00	14.03	0.06	0.00
7.82	1.05	20.07	2.45	96.21	2.00	13.99	0.06	0.00
7.84	1.06	20.29	2.25	186.04	2.00	14.36	0.00	0.00
7.86	1.12	21.36	2.04	148.28	2.00	16.05	0.00	0.00
7.88	1.19	22.84	1.80	111.44	2.00	18.25	0.00	0.00
7.90	1.27	24.24	1.70	93.67	2.00	20.22	0.00	0.00
7.92	1.29	24.79	1.76	95.58	2.00	20.96	0.00	0.00
7.94	1.30	25.00	1.83	101.07	2.00	21.24	0.00	0.00
7.96	1.31	25.03	1.80	98.35	2.00	21.28	0.00	0.00
7.98	1.30	24.89	1.72	92.12	2.00	21.10	0.00	0.00
8.00	1.29	24.72	1.66	87.84	2.00	20.88	0.00	0.00
8.02	1.27	24.30	1.58	82.90	2.00	20.30	0.00	0.00
8.04	1.25	23.97	1.47	75.21	2.00	19.86	0.00	0.00
8.06	1.24	23.66	1.34	70.29	1.96	19.42	0.00	0.00
8.08	1.23	23.51	1.27	68.20	1.91	19.21	0.00	0.00
8.10	1.22	23.31	1.24	67.24	1.88	18.93	0.00	0.00
8.12	1.21	23.00	1.25	67.50	1.89	18.50	0.00	0.00
8.14	1.19	22.75	1.25	67.54	1.89	18.13	0.00	0.00
8.16	1.18	22.51	1.26	64.51	1.82	17.79	0.00	0.00
8.18	1.17	22.30	1.24	64.36	1.82	17.47	0.00	0.00
8.20	1.17	22.22	1.24	64.76	1.82	17.36	0.00	0.00
8.22	1.17	22.19	1.24	64.63	1.82	17.30	0.00	0.00
8.24	1.17	22.15	1.22	63.54	1.80	17.26	0.00	0.00
8.26	1.15	21.90	1.22	64.38	1.81	16.87	0.00	0.00
8.28	1.14	21.61	1.20	64.38	1.81	16.43	0.00	0.00
8.30	1.14	21.62	1.17	61.93	1.76	16.44	0.00	0.00
8.32	1.17	22.27	1.13	63.73	1.80	17.43	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.34	1.23	23.47	1.06	62.19	1.76	19.17	0.00	0.00
8.36	1.30	24.85	1.03	61.76	1.76	21.05	0.00	0.00
8.38	1.36	25.91	1.05	62.93	1.78	22.42	0.00	0.00
8.40	1.40	26.71	1.12	65.41	1.82	23.43	0.00	0.00
8.42	1.42	27.02	1.21	68.05	1.88	23.81	0.00	0.00
8.44	1.41	26.85	1.27	69.76	1.92	23.59	0.00	0.00
8.46	1.37	26.18	1.36	72.19	1.97	22.77	0.00	0.00
8.48	1.35	25.66	1.38	72.67	1.98	22.11	0.00	0.00
8.50	1.35	25.67	1.35	71.58	1.96	22.12	0.00	0.00
8.52	1.36	25.94	1.27	69.42	1.90	22.46	0.00	0.00
8.54	1.37	26.00	1.24	68.49	1.88	22.54	0.00	0.00
8.56	1.36	25.86	1.24	68.70	1.88	22.36	0.00	0.00
8.58	1.49	28.53	0.95	61.02	1.73	25.61	0.00	0.00
8.60	1.62	30.95	0.85	59.04	1.69	28.29	0.00	0.00
8.62	1.71	32.75	0.79	58.20	1.68	30.15	0.00	0.00
8.64	1.63	31.10	1.10	66.54	1.83	28.45	0.00	0.00
8.66	1.53	29.25	1.36	73.49	1.99	26.43	0.00	0.00
8.68	1.46	27.82	1.57	79.27	2.00	24.77	0.00	0.00
8.70	1.45	27.61	1.54	78.23	2.00	24.52	0.00	0.00
8.72	1.46	27.72	1.42	74.83	2.00	24.65	0.00	0.00
8.74	1.48	28.18	1.27	70.40	1.91	25.20	0.00	0.00
8.76	1.50	28.51	1.19	68.38	1.86	25.58	0.00	0.00
8.78	1.53	29.22	1.15	67.38	1.84	26.39	0.00	0.00
8.80	1.54	29.34	1.20	69.05	2.00	26.53	0.00	0.00
8.82	1.48	28.17	1.31	71.62	2.00	25.19	0.00	0.00
8.84	1.38	26.14	1.55	77.86	2.00	22.72	0.00	0.00
8.86	1.30	24.64	1.55	80.32	2.00	20.77	0.00	0.00
8.88	1.28	24.29	1.42	71.07	1.92	20.29	0.00	0.00
8.90	1.32	24.99	1.16	65.91	1.80	21.23	0.00	0.00
8.92	1.33	25.26	1.15	65.72	1.80	21.59	0.00	0.00
8.94	1.33	25.20	1.22	68.03	1.85	21.50	0.00	0.00
8.96	1.33	25.21	1.29	69.94	1.89	21.52	0.00	0.00
8.98	1.39	26.31	1.22	68.20	1.85	22.93	0.00	0.00
9.00	1.49	28.40	1.12	66.25	1.81	25.45	0.00	0.00
9.02	1.66	31.63	1.00	64.02	1.76	29.01	0.00	0.00
9.04	1.99	38.24	0.90	64.85	1.78	35.27	0.00	0.00
9.06	2.17	41.65	0.89	66.74	2.00	38.09	0.00	0.00
9.08	2.13	40.85	1.07	71.08	2.00	37.45	0.00	0.00
9.10	1.78	33.98	1.44	78.38	2.00	31.37	0.00	0.00
9.12	1.48	28.14	1.93	96.55	2.00	25.14	0.00	0.00
9.14	1.37	25.88	1.99	114.31	2.00	22.38	0.00	0.00
9.16	1.50	28.50	1.64	81.91	2.00	25.56	0.00	0.00
9.18	1.96	37.52	1.05	68.54	2.00	34.64	0.00	0.00
9.20	2.60	50.13	0.78	70.83	2.00	44.21	0.00	0.00
9.22	3.17	61.34	0.68	79.61	2.00	50.87	0.00	0.00
9.24	3.48	67.42	0.72	86.51	2.00	53.99	0.00	0.00
9.26	3.45	66.98	0.80	87.32	2.00	53.77	0.00	0.00
9.28	3.20	61.93	0.93	84.67	2.00	51.19	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
9.30	2.82	54.54	0.98	79.05	2.00	46.99	0.00	0.00
9.32	2.49	47.93	0.95	73.04	1.95	42.73	0.00	0.00
9.34	2.27	43.58	0.91	68.69	1.84	39.59	0.00	0.00
9.36	2.12	40.66	0.92	66.80	1.80	37.30	0.00	0.00
9.38	2.03	38.94	0.94	66.41	1.79	35.87	0.00	0.00
9.40	2.08	39.85	0.84	64.19	1.75	36.63	0.00	0.00
9.42	2.25	43.22	0.78	65.15	1.77	39.31	0.00	0.00
9.44	2.41	46.26	0.84	69.01	1.85	41.56	0.00	0.00
9.46	2.42	46.43	0.96	71.99	1.91	41.68	0.00	0.00
9.48	2.35	45.13	1.07	74.09	1.96	40.74	0.00	0.00
9.50	2.41	46.22	1.04	74.09	1.96	41.53	0.00	0.00
9.52	2.51	48.30	0.95	73.25	1.94	42.98	0.00	0.00
9.54	2.54	48.77	0.85	71.32	1.89	43.30	0.00	0.00
9.56	2.36	45.35	0.86	68.88	1.84	40.90	0.00	0.00
9.58	2.13	40.69	0.99	68.88	1.84	37.32	0.00	0.00
9.60	2.04	38.94	1.03	69.06	1.84	35.87	0.00	0.00
9.62	2.18	41.68	0.90	67.03	1.80	38.11	0.00	0.00
9.64	2.40	46.09	0.70	65.51	1.76	41.43	0.00	0.00
9.66	2.56	49.13	0.68	67.81	1.81	43.54	0.00	0.00
9.68	2.59	49.86	0.71	69.21	1.84	44.03	0.00	0.00
9.70	2.65	50.89	0.76	71.05	1.88	44.70	0.00	0.00
9.72	2.85	54.95	0.68	73.39	1.94	47.24	0.06	0.00
9.74	3.09	59.69	0.62	77.02	2.00	49.97	0.00	0.00
9.76	3.38	65.39	0.57	82.00	2.00	52.98	0.00	0.00
9.78	3.50	67.72	0.62	85.11	2.00	54.13	0.00	0.00
9.80	3.37	65.09	0.67	83.32	2.00	52.83	0.00	0.00
9.82	3.19	61.57	0.74	80.94	2.00	50.99	0.00	0.00
9.84	3.03	58.51	0.80	78.98	2.00	49.31	0.00	0.00
9.86	3.17	61.11	0.84	82.20	2.00	50.75	0.00	0.00
9.88	3.39	65.46	0.87	87.04	2.00	53.02	0.00	0.00
9.90	3.62	70.15	0.82	90.86	2.00	55.30	0.00	0.00
9.92	3.81	73.87	0.82	94.66	2.00	57.00	0.00	0.00
9.94	3.88	75.26	0.89	97.24	2.00	57.62	0.00	0.00
9.96	3.93	76.08	1.02	100.31	2.00	57.98	0.00	0.00
9.98	3.94	76.28	1.11	102.17	2.00	58.06	0.00	0.00
10.00	3.82	74.06	1.11	100.01	2.00	57.09	0.00	0.00
10.02	3.63	70.19	1.11	96.20	2.00	55.32	0.00	0.00
10.04	3.35	64.74	1.09	90.61	2.00	52.65	0.00	0.00
10.06	3.25	62.73	1.14	90.07	2.00	51.61	0.00	0.00
10.08	3.34	64.46	1.20	92.86	2.00	52.50	0.00	0.00
10.10	3.54	68.41	1.22	96.95	2.00	54.47	0.00	0.00
10.12	3.59	69.41	1.24	98.32	2.00	54.95	0.00	0.00
10.14	3.53	68.15	1.27	97.83	2.00	54.35	0.00	0.00
10.16	3.46	66.76	1.28	96.86	2.00	53.66	0.00	0.00
10.18	3.52	67.98	1.14	94.84	2.00	54.26	0.00	0.00
10.20	3.63	69.10	0.92	91.63	2.00	54.80	0.00	0.00
10.22	3.74	69.65	0.76	89.40	2.00	55.06	0.00	0.00
10.24	3.87	70.93	0.68	89.34	2.00	55.66	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
10.26	3.80	69.56	0.67	87.92	2.00	55.02	0.00	0.00
10.28	3.42	63.60	0.74	82.96	2.00	52.06	0.00	0.00
10.30	2.80	53.46	0.82	74.71	1.95	46.33	0.06	0.00
10.32	2.21	42.08	1.08	72.47	1.90	38.43	0.00	0.00
10.34	1.93	36.64	1.40	78.96	2.00	33.86	0.00	0.00
10.36	2.08	39.55	1.47	82.58	2.00	36.38	0.00	0.00
10.38	2.40	45.76	1.17	77.57	2.00	41.20	0.00	0.00
10.40	2.56	48.93	1.07	76.94	2.00	43.41	0.00	0.00
10.42	2.37	45.21	1.27	80.02	2.00	40.80	0.00	0.00
10.44	2.03	38.47	1.73	89.91	2.00	35.47	0.00	0.00
10.46	1.82	34.35	2.07	98.18	2.00	31.73	0.00	0.00
10.48	1.88	35.56	1.87	92.78	2.00	32.87	0.00	0.00
10.50	2.13	40.37	1.60	87.08	2.00	37.06	0.00	0.00
10.52	2.29	43.61	1.42	83.43	2.00	39.61	0.00	0.00
10.54	2.24	42.55	1.57	87.33	2.00	38.79	0.00	0.00
10.56	2.10	39.86	1.81	93.31	2.00	36.64	0.00	0.00
10.58	2.14	40.53	1.90	96.54	2.00	37.19	0.00	0.00
10.60	2.36	44.92	1.76	94.65	2.00	40.59	0.00	0.00
10.62	2.77	53.09	1.56	93.79	2.00	46.10	0.00	0.00
10.64	3.19	60.02	1.28	91.11	2.00	50.15	0.00	0.00
10.66	3.50	64.42	1.13	91.38	2.00	52.49	0.00	0.00
10.68	3.52	64.21	1.03	88.94	2.00	52.38	0.00	0.00
10.70	3.14	57.67	1.04	83.22	2.00	48.83	0.00	0.00
10.72	2.75	50.89	1.02	77.32	2.00	44.70	0.00	0.00
10.74	2.47	46.00	1.01	73.31	1.91	41.37	0.00	0.00
10.76	2.42	45.55	1.13	76.17	1.98	41.04	0.00	0.00
10.78	2.33	44.23	1.30	80.41	2.00	40.07	0.00	0.00
10.80	2.24	42.41	1.49	85.12	2.00	38.69	0.00	0.00
10.82	2.25	42.62	1.51	85.84	2.00	38.85	0.00	0.00
10.84	2.22	42.11	1.51	85.49	2.00	38.46	0.00	0.00
10.86	2.14	40.56	1.55	85.67	2.00	37.21	0.00	0.00
10.88	2.15	40.77	1.47	83.56	2.00	37.39	0.00	0.00
10.90	2.40	45.11	1.40	83.86	2.00	40.72	0.00	0.00
10.92	2.89	52.50	1.12	81.04	2.00	45.73	0.00	0.00
10.94	3.20	56.92	1.01	81.91	2.00	48.40	0.00	0.00
10.96	3.23	56.98	0.92	80.07	2.00	48.43	0.00	0.00
10.98	3.00	53.26	0.97	77.84	2.00	46.20	0.00	0.00
11.00	2.82	50.45	1.02	76.82	2.00	44.41	0.00	0.00
11.02	2.88	51.52	1.08	79.19	2.00	45.11	0.00	0.00
11.04	2.94	52.13	1.03	78.47	2.00	45.50	0.00	0.00
11.06	2.91	51.70	1.07	79.20	2.00	45.23	0.00	0.00
11.08	2.63	47.18	1.12	77.16	2.00	42.21	0.00	0.00
11.10	2.30	42.04	1.31	79.37	2.00	38.40	0.00	0.00
11.12	1.79	33.61	1.61	84.24	2.00	31.01	0.00	0.00
11.14	1.34	24.63	2.30	161.88	2.00	20.75	0.00	0.00
11.16	0.99	17.65	3.03	109.04	2.00	9.75	0.07	0.00
11.18	0.90	15.91	2.86	103.28	2.00	6.32	0.07	0.00
11.20	0.90	15.94	2.13	88.03	2.00	6.39	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
11.22	0.95	16.89	1.80	81.16	2.00	8.30	0.07	0.00
11.24	1.13	20.37	1.68	126.55	2.00	14.49	0.00	0.00
11.26	1.32	24.25	1.63	93.30	2.00	20.24	0.00	0.00
11.28	1.59	29.48	1.48	78.46	2.00	26.68	0.00	0.00
11.30	1.91	34.72	1.33	76.10	2.00	32.08	0.00	0.00
11.32	2.32	41.21	1.22	76.09	2.00	37.74	0.00	0.00
11.34	2.62	45.84	1.17	77.72	2.00	41.25	0.00	0.00
11.36	2.63	46.19	1.24	79.84	2.00	41.50	0.00	0.00
11.38	2.41	42.96	1.45	84.23	2.00	39.12	0.00	0.00
11.40	2.12	38.59	1.79	92.19	2.00	35.58	0.00	0.00
11.42	2.12	38.69	1.88	95.30	2.00	35.66	0.00	0.00
11.44	2.54	45.14	1.63	90.82	2.00	40.74	0.00	0.00
11.46	3.07	53.17	1.42	89.87	2.00	46.15	0.00	0.00
11.48	3.35	57.58	1.41	92.78	2.00	48.78	0.00	0.00
11.50	3.32	57.04	1.44	93.22	2.00	48.47	0.00	0.00
11.52	3.36	57.38	1.40	92.37	2.00	48.66	0.00	0.00
11.54	3.60	60.79	1.35	93.55	2.00	50.57	0.00	0.00
11.56	3.94	65.73	1.26	95.61	2.00	53.15	0.00	0.00
11.58	4.25	70.10	1.21	98.26	2.00	55.27	0.00	0.00
11.60	4.56	74.04	1.09	99.59	2.00	57.08	0.00	0.00
11.62	5.03	80.25	0.97	103.75	2.00	59.74	0.00	0.00
11.64	5.54	86.93	0.88	109.19	2.00	62.38	0.00	0.00
11.66	5.94	92.16	0.84	113.71	2.00	64.30	0.00	0.00
11.68	6.13	94.32	0.81	115.18	2.00	65.07	0.00	0.00
11.70	6.35	96.83	0.75	116.14	2.00	65.94	0.00	0.00
11.72	6.65	100.20	0.69	117.00	2.00	67.07	0.00	0.00
11.74	7.07	105.42	0.65	119.29	2.00	68.74	0.00	0.00
11.76	7.53	112.04	0.69	126.01	2.00	70.75	0.00	0.00
11.78	8.08	119.22	0.69	129.86	2.00	72.80	0.00	0.00
11.80	8.74	127.31	0.64	128.89	2.00	74.97	0.00	0.00
11.82	9.78	138.70	0.51	138.70	2.00	77.80	0.00	0.00
11.84	10.50	146.20	0.43	146.20	2.00	79.54	0.00	0.00
11.86	10.66	147.40	0.40	147.40	2.00	79.81	0.00	0.00
11.88	9.85	136.90	0.40	136.90	2.00	77.37	0.00	0.00
11.90	8.75	122.63	0.40	122.63	2.00	73.73	0.00	0.00
11.92	7.49	106.66	0.43	106.66	2.00	69.13	0.00	0.00
11.94	5.77	85.42	0.59	101.53	2.00	61.80	0.00	0.00
11.96	4.22	65.83	0.98	89.58	2.00	53.20	0.00	0.00
11.98	3.13	51.01	1.49	90.43	2.00	44.78	0.00	0.00
12.00	2.67	45.14	2.26	110.70	2.00	40.75	0.00	0.00
12.02	2.35	40.84	3.09	148.62	2.00	37.44	0.00	0.00
12.04	1.96	34.98	4.28	331.62	2.00	32.33	0.00	0.00
12.06	1.65	29.68	4.83	166.45	2.00	26.91	0.04	0.00
12.08	1.41	25.48	5.09	164.79	2.00	21.87	0.05	0.00
12.10	1.24	22.38	5.13	159.45	2.00	17.59	0.05	0.00
12.12	1.20	21.49	4.58	147.14	2.00	16.25	0.06	0.00
12.14	1.18	20.82	3.82	130.97	2.00	15.21	0.06	0.00
12.16	1.17	20.24	3.03	113.23	2.00	14.27	0.06	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
12.18	1.19	20.19	2.52	101.74	2.00	14.19	0.06	0.00
12.20	1.23	20.67	2.14	184.80	2.00	14.97	0.00	0.00
12.22	1.27	21.17	1.96	154.56	2.00	15.76	0.00	0.00
12.24	1.41	23.65	2.28	171.32	2.00	19.41	0.00	0.00
12.26	1.48	24.97	2.71	214.02	2.00	21.20	0.00	0.00
12.28	1.50	25.53	3.24	124.03	2.00	21.93	0.05	0.00
12.30	1.37	23.37	3.45	126.64	2.00	19.02	0.05	0.00
12.32	1.28	21.87	3.68	129.48	2.00	16.83	0.06	0.00
12.34	1.23	20.96	3.65	127.59	2.00	15.43	0.06	0.00
12.36	1.20	20.30	3.61	125.71	2.00	14.37	0.06	0.00
12.38	1.17	19.77	3.46	121.85	2.00	13.49	0.06	0.00
12.40	1.15	19.30	3.11	113.99	2.00	12.71	0.06	0.00
12.42	1.15	18.94	2.73	105.15	2.00	12.09	0.06	0.00
12.44	1.14	18.66	2.37	96.79	2.00	11.59	0.06	0.00
12.46	1.15	18.55	2.08	89.82	2.00	11.39	0.06	0.00
12.48	1.15	18.54	1.89	176.19	2.00	11.38	0.00	0.00
12.50	1.19	18.97	1.85	164.37	2.00	12.14	0.00	0.00
12.52	1.30	20.76	1.75	132.51	2.00	15.11	0.00	0.00
12.54	1.57	24.71	1.58	87.34	2.00	20.86	0.00	0.00
12.56	1.94	30.30	1.42	77.07	2.00	27.59	0.00	0.00
12.58	2.19	34.13	1.54	82.59	2.00	31.51	0.00	0.00
12.60	2.22	34.70	1.75	89.39	2.00	32.07	0.00	0.00
12.62	1.99	31.37	1.95	88.53	2.00	28.73	0.00	0.00
12.64	1.70	27.07	2.21	135.25	2.00	23.86	0.00	0.00
12.66	1.45	23.12	2.44	197.47	2.00	18.67	0.00	0.00
12.68	1.30	20.72	2.52	102.24	2.00	15.05	0.06	0.00
12.70	1.25	19.82	2.26	95.12	2.00	13.58	0.06	0.00
12.72	1.26	19.77	2.01	177.22	2.00	13.50	0.00	0.00
12.74	1.28	20.09	2.02	174.28	2.00	14.02	0.00	0.00
12.76	1.36	21.16	1.97	156.48	2.00	15.74	0.00	0.00
12.78	1.47	22.76	1.92	136.00	2.00	18.14	0.00	0.00
12.80	1.49	23.12	2.02	144.54	2.00	18.66	0.00	0.00
12.82	1.38	21.52	2.25	189.73	2.00	16.30	0.00	0.00
12.84	1.23	19.04	2.25	94.17	2.00	12.25	0.06	0.00
12.86	1.16	17.81	1.93	85.55	2.00	10.06	0.06	0.00
12.88	1.17	17.77	1.57	140.31	2.00	9.97	0.00	0.00
12.90	1.14	17.31	1.67	159.88	2.00	9.12	0.00	0.00
12.92	1.09	16.59	1.87	83.31	2.00	7.71	0.07	0.00
12.94	1.05	15.84	1.95	84.60	2.00	6.19	0.07	0.00
12.96	1.06	15.96	1.86	82.44	2.00	6.43	0.07	0.00
12.98	1.08	16.22	1.73	79.67	2.00	6.96	0.07	0.00
13.00	1.10	16.48	1.75	80.17	2.00	7.49	0.07	0.00
13.02	1.09	16.29	1.79	81.08	2.00	7.10	0.07	0.00
13.04	1.07	16.08	1.85	82.27	2.00	6.68	0.07	0.00
13.06	1.07	16.03	1.81	81.42	2.00	6.57	0.07	0.00
13.08	1.12	16.69	1.66	166.90	2.00	7.90	0.00	0.00
13.10	1.24	18.25	1.47	121.76	2.00	10.86	0.00	0.00
13.12	1.40	20.66	1.38	91.78	2.00	14.96	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
13.14	1.51	22.19	1.45	89.33	2.00	17.30	0.00	0.00
13.16	1.46	21.56	1.59	108.34	2.00	16.36	0.00	0.00
13.18	1.32	19.49	1.76	146.86	2.00	13.02	0.00	0.00
13.20	1.21	17.90	1.83	175.39	2.00	10.21	0.00	0.00
13.22	1.20	17.67	1.72	162.99	2.00	9.80	0.00	0.00
13.24	1.27	18.56	1.56	130.35	2.00	11.41	0.00	0.00
13.26	1.33	19.40	1.49	113.77	2.00	12.87	0.00	0.00
13.28	1.34	19.59	1.64	130.59	2.00	13.20	0.00	0.00
13.30	1.26	18.38	1.71	153.16	2.00	11.09	0.00	0.00
13.32	1.18	17.04	1.68	166.09	2.00	8.58	0.00	0.00
13.34	1.12	16.07	1.50	152.21	2.00	6.65	0.00	0.00
13.36	1.13	16.13	1.44	141.93	2.00	6.78	0.00	0.00
13.38	1.20	17.09	1.36	120.79	2.00	8.68	0.00	0.00
13.40	1.30	18.57	1.29	98.01	2.00	11.43	0.00	0.00
13.42	1.39	19.89	1.40	99.43	2.00	13.69	0.00	0.00
13.44	1.41	20.19	1.61	121.24	2.00	14.20	0.00	0.00
13.46	1.40	20.08	1.71	134.15	2.00	14.01	0.00	0.00
13.48	1.30	18.61	1.83	166.51	2.00	11.51	0.00	0.00
13.50	1.16	16.49	1.87	83.31	2.00	7.52	0.07	0.00
13.52	0.99	13.96	2.03	84.79	2.00	2.02	0.08	0.00
13.54	0.92	12.91	1.85	79.79	2.00	0.00	0.08	0.00
13.56	0.93	12.97	1.62	74.57	2.00	0.00	0.08	0.00
13.58	0.96	13.31	1.53	72.70	2.00	0.44	0.08	0.00
13.60	0.96	13.35	1.57	73.75	2.00	0.54	0.08	0.00
13.62	0.97	13.38	1.60	74.55	2.00	0.61	0.08	0.00
13.64	1.01	14.00	1.51	72.84	2.00	2.11	0.08	0.00
13.66	1.18	16.26	1.29	120.55	2.00	7.04	0.00	0.00
13.68	1.31	18.11	1.14	84.57	2.00	10.60	0.00	0.00
13.70	1.41	19.43	1.21	82.97	2.00	12.92	0.00	0.00
13.72	1.39	19.36	1.46	111.06	2.00	12.81	0.00	0.00
13.74	1.38	19.28	1.64	133.32	2.00	12.66	0.00	0.00
13.76	1.33	18.53	1.74	155.10	2.00	11.35	0.00	0.00
13.78	1.20	16.64	1.79	81.33	2.00	7.80	0.07	0.00
13.80	1.10	15.10	1.88	82.53	2.00	4.61	0.07	0.00
13.82	1.07	14.63	1.88	81.97	2.00	3.57	0.07	0.00
13.84	1.11	15.23	1.83	81.43	2.00	4.90	0.07	0.00
13.86	1.15	15.83	1.87	82.84	2.00	6.16	0.07	0.00
13.88	1.29	17.63	1.66	155.58	2.00	9.72	0.00	0.00
13.90	1.35	18.37	1.50	125.58	2.00	11.08	0.00	0.00
13.92	1.62	21.93	1.21	68.59	2.00	16.92	0.00	0.00
13.94	1.77	23.91	1.13	65.97	2.00	19.78	0.00	0.00
13.96	2.34	31.40	0.97	63.91	2.00	28.77	0.00	0.00
13.98	2.66	35.72	1.02	67.46	2.00	33.02	0.00	0.00
14.00	3.19	42.72	1.10	73.89	2.00	38.93	0.00	0.00
14.02	3.73	50.09	1.27	83.64	2.00	44.18	0.00	0.00
14.04	4.32	57.95	1.46	94.66	2.00	48.99	0.00	0.00
14.06	4.56	61.29	1.62	101.48	2.00	50.84	0.00	0.00
14.08	4.19	56.85	1.97	109.04	2.00	48.36	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
14.10	3.56	48.88	2.50	120.87	2.00	43.37	0.00	0.00
14.12	2.79	39.15	3.69	222.54	2.00	36.05	0.00	0.00
14.14	2.22	31.60	5.27	179.83	2.00	28.98	0.04	0.00
14.16	1.90	27.17	6.75	201.05	2.00	23.99	0.05	0.00
14.18	1.89	27.07	6.88	203.27	2.00	23.87	0.05	0.00
14.20	1.99	28.38	6.44	197.95	2.00	25.43	0.04	0.00
14.22	2.15	30.36	5.91	191.41	2.00	27.66	0.04	0.00
14.24	2.25	31.77	5.73	190.44	2.00	29.15	0.04	0.00
14.26	2.28	32.06	5.71	190.47	2.00	29.45	0.04	0.00
14.28	2.23	31.32	5.75	190.03	2.00	28.69	0.04	0.00
14.30	2.20	30.79	5.84	190.88	2.00	28.12	0.04	0.00
14.32	2.29	32.01	5.77	191.67	2.00	29.40	0.04	0.00
14.34	2.55	35.40	5.46	190.46	2.00	32.73	0.03	0.00
14.36	2.78	38.51	5.14	187.33	2.00	35.50	0.03	0.00
14.38	2.88	39.67	5.03	401.58	2.00	36.48	0.00	0.00
14.40	2.86	39.37	5.18	189.56	2.00	36.23	0.03	0.00
14.42	2.90	39.85	5.27	192.77	2.00	36.63	0.03	0.00
14.44	3.32	45.35	4.83	324.40	2.00	40.90	0.00	0.00
14.46	4.11	55.47	4.11	189.61	2.00	47.55	0.00	0.00
14.48	4.83	64.59	3.67	170.37	2.00	52.57	0.00	0.00
14.50	5.36	71.24	3.47	169.06	2.00	55.81	0.00	0.00
14.52	5.79	76.71	3.55	176.01	2.00	58.25	0.00	0.00
14.54	6.36	83.84	3.45	178.23	2.00	61.18	0.00	0.00
14.56	6.82	89.43	3.37	180.12	2.00	63.31	0.00	0.00
14.58	6.58	86.28	3.53	183.02	2.00	62.13	0.00	0.00
14.60	5.98	78.93	3.99	193.71	2.00	59.19	0.00	0.00
14.62	5.22	69.45	4.74	206.28	2.00	54.97	0.00	0.00
14.64	4.77	63.65	5.26	280.82	2.00	52.09	0.00	0.00
14.66	4.51	60.11	5.53	329.81	2.00	50.20	0.00	0.00
14.68	4.61	61.13	5.17	281.26	2.00	50.76	0.00	0.00
14.70	5.05	66.38	4.55	197.44	2.00	53.47	0.00	0.00
14.72	5.45	71.09	4.06	189.42	2.00	55.74	0.00	0.00
14.74	5.30	69.00	4.17	191.29	2.00	54.75	0.00	0.00
14.76	4.79	62.60	4.56	209.71	2.00	51.54	0.00	0.00
14.78	4.39	57.40	4.89	264.73	2.00	48.68	0.00	0.00
14.80	4.37	56.93	4.73	248.97	2.00	48.41	0.00	0.00
14.82	4.66	60.21	4.25	187.33	2.00	50.25	0.00	0.00
14.84	5.24	67.30	3.81	177.54	2.00	53.93	0.00	0.00
14.86	6.58	83.31	3.13	166.55	2.00	60.97	0.00	0.00
14.88	8.09	100.98	2.57	162.72	2.00	67.32	0.00	0.00
14.90	10.13	124.39	2.01	169.53	2.00	74.20	0.00	0.00
14.92	23.81	275.25	0.86	275.25	2.00	100.00	0.00	0.00
14.94	37.13	415.53	0.56	415.53	2.00	100.00	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)

Total estimated displacement: 0.04

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
6.42	0.30	5.65	9.86	55.69	3.06	0.04	2.30
6.44	0.41	7.87	7.30	57.42	2.91	0.09	0.65
6.46	0.56	10.79	5.36	57.79	2.76	0.09	0.65
6.48	0.70	13.57	4.19	56.92	2.65	0.75	0.75
6.50	0.74	14.31	3.86	55.20	2.61	0.72	0.72
6.52	0.70	13.48	4.18	56.32	2.65	0.75	0.75
6.54	0.71	13.76	4.17	57.38	2.65	0.75	0.75
6.56	0.75	14.47	3.97	57.45	2.62	0.73	0.73
6.58	0.82	15.98	3.74	59.74	2.60	0.72	0.72
6.60	0.89	17.25	3.58	61.78	2.58	0.68	0.71
6.62	0.92	17.94	3.58	64.28	2.58	0.72	0.72
6.64	0.88	17.02	4.74	80.70	2.70	0.62	0.71
6.66	0.75	14.43	6.15	88.75	2.82	0.73	0.73
6.68	0.61	11.79	8.28	97.64	2.97	0.74	0.74
6.70	0.57	10.92	8.45	92.20	2.98	0.73	0.73
6.72	0.58	11.17	8.57	95.75	2.99	0.74	0.74
6.74	0.62	11.90	8.26	98.35	2.97	0.74	0.74
6.76	0.66	12.62	7.89	99.57	2.95	0.75	0.75
6.78	0.68	13.04	7.87	102.61	2.94	0.75	0.75
6.80	0.67	12.93	8.35	107.92	2.97	0.76	0.76
6.82	0.67	12.76	8.87	113.19	3.01	0.27	4.10
6.84	0.66	12.55	9.43	118.31	3.04	0.29	3.98
6.86	0.64	12.25	10.07	123.33	3.07	0.31	3.84
6.88	0.62	11.83	10.85	128.28	3.11	0.33	3.66
6.90	0.61	11.55	11.39	131.51	3.14	0.35	3.53
6.92	0.61	11.65	11.28	131.49	3.13	0.35	3.52
6.94	0.63	12.07	10.76	129.93	3.11	0.33	3.61
6.96	0.66	12.64	10.12	127.92	3.07	0.33	3.73
6.98	0.70	13.38	9.49	126.89	3.04	0.33	3.90
7.00	0.74	14.19	8.84	125.42	3.00	0.33	4.09
7.02	0.79	15.23	8.15	124.10	2.96	0.79	0.79
7.04	0.86	16.58	7.45	123.47	2.92	0.79	0.79
7.06	0.94	18.05	6.81	122.98	2.87	0.79	0.79
7.08	1.05	20.33	5.92	120.39	2.81	0.78	0.78
7.10	1.15	22.28	5.27	117.45	2.75	0.78	0.78
7.12	1.24	23.93	4.86	116.29	2.71	0.78	0.78
7.14	1.25	24.23	4.91	118.84	2.72	0.78	0.78
7.16	1.26	24.40	4.99	121.73	2.73	0.79	0.79
7.18	1.28	24.79	4.97	123.31	2.72	0.79	0.79
7.20	1.32	25.48	4.84	123.26	2.71	0.79	0.79
7.22	1.34	26.00	4.74	123.23	2.70	0.79	0.79
7.24	1.36	26.42	4.65	122.74	2.69	0.94	0.94
7.26	1.38	26.73	4.56	121.83	2.69	0.93	0.93
7.28	1.39	26.92	4.47	120.20	2.68	0.92	0.92
7.30	1.37	26.51	4.48	118.76	2.68	0.92	0.92
7.32	1.33	25.64	4.61	118.20	2.69	0.93	0.93
7.34	1.29	24.91	4.72	117.72	2.70	0.78	0.78
7.36	1.27	24.45	4.50	110.08	2.68	0.91	0.91

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.38	1.32	25.55	4.25	108.70	2.65	0.88	0.88
7.40	1.33	25.65	4.23	108.42	2.65	0.88	0.88
7.42	1.32	25.53	4.50	114.77	2.68	0.92	0.92
7.44	1.25	24.08	4.72	113.61	2.70	0.77	0.77
7.46	1.21	23.35	4.74	110.70	2.70	0.77	0.77
7.48	1.18	22.74	4.79	108.94	2.71	0.76	0.76
7.50	1.15	22.17	4.92	109.02	2.72	0.76	0.76
7.52	1.13	21.62	5.03	108.86	2.73	0.76	0.76
7.54	1.11	21.31	5.00	106.57	2.73	0.76	0.76
7.56	1.12	21.40	4.72	101.12	2.70	0.75	0.75
7.58	1.14	21.88	4.36	95.43	2.67	0.86	0.86
7.60	1.17	22.52	4.01	90.32	2.63	0.82	0.82
7.62	1.20	23.07	3.75	86.56	2.60	0.79	0.79
7.64	1.22	23.49	3.61	84.73	2.58	0.77	0.77
7.66	1.24	23.77	3.57	84.84	2.58	0.77	0.77
7.68	1.23	23.56	3.76	88.67	2.60	0.80	0.80
7.70	1.19	22.81	4.08	93.17	2.64	0.84	0.84
7.72	1.14	21.77	4.51	98.25	2.68	0.88	0.88
7.74	1.09	20.82	4.84	100.72	2.71	0.75	0.75
7.76	1.06	20.33	5.02	102.04	2.73	0.75	0.75
7.78	1.05	20.05	5.08	101.96	2.73	0.75	0.75
7.80	1.05	20.09	4.94	99.17	2.72	0.75	0.75
7.82	1.05	20.07	4.79	96.21	2.71	0.74	0.74
7.84	1.06	20.29	4.53	91.98	2.68	0.87	0.87
7.86	1.12	21.36	4.10	87.62	2.64	0.82	0.82
7.88	1.19	22.84	3.62	82.61	2.58	0.77	0.77
7.90	1.27	24.24	3.33	80.74	2.55	0.74	0.74
7.92	1.29	24.79	3.33	82.51	2.55	0.74	0.74
7.94	1.30	25.00	3.38	84.60	2.56	0.75	0.75
7.96	1.31	25.03	3.35	83.86	2.55	0.74	0.74
7.98	1.30	24.89	3.28	81.66	2.54	0.73	0.73
8.00	1.29	24.72	3.23	79.96	2.54	0.72	0.72
8.02	1.27	24.30	3.19	77.48	2.53	0.71	0.71
8.04	1.25	23.97	3.10	74.25	2.52	0.39	0.70
8.06	1.24	23.66	2.97	70.29	2.50	0.26	0.68
8.08	1.23	23.51	2.90	68.20	2.49	0.22	0.68
8.10	1.22	23.31	2.88	67.24	2.49	0.20	0.68
8.12	1.21	23.00	2.93	67.50	2.49	0.21	0.68
8.14	1.19	22.75	2.97	67.54	2.50	0.21	0.68
8.16	1.18	22.51	3.00	67.57	2.50	0.16	0.67
8.18	1.17	22.30	3.01	67.09	2.50	0.16	0.67
8.20	1.17	22.22	3.02	67.09	2.51	0.17	0.67
8.22	1.17	22.19	3.02	66.97	2.51	0.16	0.67
8.24	1.17	22.15	3.00	66.51	2.50	0.15	0.67
8.26	1.15	21.90	3.03	66.31	2.51	0.16	0.67
8.28	1.14	21.61	3.04	65.73	2.51	0.16	0.67
8.30	1.14	21.62	3.00	64.87	2.50	0.13	0.66
8.32	1.17	22.27	2.86	63.73	2.48	0.15	0.67

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.34	1.23	23.47	2.65	62.19	2.45	0.13	0.66
8.36	1.30	24.85	2.48	61.76	2.42	0.13	0.66
8.38	1.36	25.91	2.43	62.93	2.41	0.14	0.66
8.40	1.40	26.71	2.45	65.41	2.41	0.17	0.67
8.42	1.42	27.02	2.52	68.05	2.43	0.22	0.68
8.44	1.41	26.85	2.60	69.76	2.44	0.25	0.68
8.46	1.37	26.18	2.76	72.19	2.47	0.31	0.69
8.48	1.35	25.66	2.83	72.67	2.48	0.32	0.69
8.50	1.35	25.67	2.79	71.58	2.47	0.29	0.69
8.52	1.36	25.94	2.68	69.42	2.45	0.24	0.68
8.54	1.37	26.00	2.63	68.49	2.45	0.23	0.68
8.56	1.36	25.86	2.66	68.70	2.45	0.23	0.68
8.58	1.49	28.53	2.14	61.02	2.35	0.12	0.66
8.60	1.62	30.95	1.91	59.04	2.30	0.10	0.65
8.62	1.71	32.75	1.78	58.20	2.26	0.10	0.65
8.64	1.63	31.10	2.14	66.54	2.35	0.19	0.67
8.66	1.53	29.25	2.51	73.49	2.43	0.34	0.69
8.68	1.46	27.82	2.85	79.27	2.48	0.55	0.71
8.70	1.45	27.61	2.83	78.23	2.48	0.50	0.70
8.72	1.46	27.72	2.70	74.83	2.46	0.38	0.70
8.74	1.48	28.18	2.50	70.40	2.42	0.26	0.68
8.76	1.50	28.51	2.40	68.38	2.40	0.22	0.68
8.78	1.53	29.22	2.31	67.38	2.39	0.21	0.68
8.80	1.54	29.34	2.35	69.05	2.40	0.24	0.68
8.82	1.48	28.17	2.54	71.62	2.43	0.29	0.69
8.84	1.38	26.14	2.98	77.86	2.50	0.49	0.70
8.86	1.30	24.64	3.14	77.33	2.52	0.60	0.71
8.88	1.28	24.29	3.02	73.42	2.51	0.28	0.69
8.90	1.32	24.99	2.64	65.91	2.45	0.18	0.67
8.92	1.33	25.26	2.60	65.72	2.44	0.18	0.67
8.94	1.33	25.20	2.70	68.03	2.46	0.22	0.68
8.96	1.33	25.21	2.77	69.94	2.47	0.25	0.68
8.98	1.39	26.31	2.59	68.20	2.44	0.22	0.68
9.00	1.49	28.40	2.33	66.25	2.39	0.19	0.67
9.02	1.66	31.63	2.02	64.02	2.33	0.16	0.67
9.04	1.99	38.24	1.70	64.85	2.23	0.17	0.67
9.06	2.17	41.65	1.60	66.74	2.20	0.19	0.67
9.08	2.13	40.85	1.74	71.08	2.25	0.28	0.69
9.10	1.78	33.98	2.31	78.38	2.39	0.51	0.70
9.12	1.48	28.14	3.20	89.90	2.53	0.74	0.74
9.14	1.37	25.88	3.49	90.37	2.57	0.77	0.77
9.16	1.50	28.50	2.87	81.91	2.48	0.68	0.71
9.18	1.96	37.52	1.83	68.54	2.27	0.23	0.68
9.20	2.60	50.13	1.41	70.83	2.10	0.27	0.69
9.22	3.17	61.34	1.30	79.61	1.99	0.57	0.71
9.24	3.48	67.42	1.28	86.51	1.97	0.72	0.72
9.26	3.45	66.98	1.30	87.32	2.00	0.72	0.72
9.28	3.20	61.93	1.37	84.67	2.06	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
9.30	2.82	54.54	1.45	79.05	2.12	0.54	0.70
9.32	2.49	47.93	1.52	73.04	2.16	0.33	0.69
9.34	2.27	43.58	1.58	68.69	2.18	0.23	0.68
9.36	2.12	40.66	1.64	66.80	2.21	0.20	0.68
9.38	2.03	38.94	1.71	66.41	2.23	0.19	0.67
9.40	2.08	39.85	1.61	64.19	2.20	0.16	0.67
9.42	2.25	43.22	1.51	65.15	2.15	0.17	0.67
9.44	2.41	46.26	1.49	69.01	2.14	0.23	0.68
9.46	2.42	46.43	1.55	71.99	2.17	0.30	0.69
9.48	2.35	45.13	1.64	74.09	2.21	0.36	0.69
9.50	2.41	46.22	1.60	74.09	2.20	0.36	0.69
9.52	2.51	48.30	1.52	73.25	2.16	0.33	0.69
9.54	2.54	48.77	1.46	71.32	2.13	0.28	0.69
9.56	2.36	45.35	1.52	68.88	2.16	0.23	0.68
9.58	2.13	40.69	1.69	68.88	2.23	0.23	0.68
9.60	2.04	38.94	1.77	69.06	2.26	0.24	0.68
9.62	2.18	41.68	1.61	67.03	2.20	0.20	0.68
9.64	2.40	46.09	1.42	65.51	2.10	0.18	0.67
9.66	2.56	49.13	1.38	67.81	2.07	0.21	0.68
9.68	2.59	49.86	1.39	69.21	2.08	0.24	0.68
9.70	2.65	50.89	1.40	71.05	2.08	0.28	0.69
9.72	2.85	54.95	1.34	73.39	2.03	0.34	0.69
9.74	3.09	59.69	1.29	77.02	1.98	0.46	0.70
9.76	3.38	65.39	1.25	82.00	1.93	0.69	0.71
9.78	3.50	67.72	1.26	85.11	1.93	0.72	0.72
9.80	3.37	65.09	1.28	83.32	1.96	0.71	0.71
9.82	3.19	61.57	1.31	80.94	2.01	0.63	0.71
9.84	3.03	58.51	1.35	78.98	2.05	0.54	0.70
9.86	3.17	61.11	1.35	82.20	2.04	0.70	0.71
9.88	3.39	65.46	1.33	87.04	2.03	0.72	0.72
9.90	3.62	70.15	1.30	90.86	1.99	0.73	0.73
9.92	3.81	73.87	1.28	94.66	1.97	0.74	0.74
9.94	3.88	75.26	1.29	97.24	1.98	0.74	0.74
9.96	3.93	76.08	1.32	100.31	2.01	0.75	0.75
9.98	3.94	76.28	1.34	102.17	2.04	0.75	0.75
10.00	3.82	74.06	1.35	100.01	2.05	0.75	0.75
10.02	3.63	70.19	1.37	96.20	2.06	0.74	0.74
10.04	3.35	64.74	1.40	90.61	2.09	0.73	0.73
10.06	3.25	62.73	1.44	90.07	2.11	0.73	0.73
10.08	3.34	64.46	1.44	92.86	2.11	0.73	0.73
10.10	3.54	68.41	1.42	96.95	2.10	0.74	0.74
10.12	3.59	69.41	1.42	98.32	2.10	0.74	0.74
10.14	3.53	68.15	1.44	97.83	2.11	0.74	0.74
10.16	3.46	66.76	1.45	96.86	2.12	0.74	0.74
10.18	3.52	67.98	1.40	94.84	2.08	0.74	0.74
10.20	3.63	69.10	1.33	91.63	2.02	0.73	0.73
10.22	3.74	69.65	1.28	89.40	1.97	0.73	0.73
10.24	3.87	70.93	1.26	89.34	1.93	0.73	0.73

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
10.26	3.80	69.56	1.26	87.92	1.94	0.72	0.72
10.28	3.42	63.60	1.30	82.96	2.00	0.71	0.71
10.30	2.80	53.46	1.40	74.71	2.08	0.38	0.69
10.32	2.21	42.08	1.72	72.47	2.24	0.31	0.69
10.34	1.93	36.64	2.16	78.96	2.36	0.54	0.70
10.36	2.08	39.55	2.09	82.58	2.34	0.71	0.71
10.38	2.40	45.76	1.70	77.57	2.23	0.48	0.70
10.40	2.56	48.93	1.57	76.94	2.18	0.45	0.70
10.42	2.37	45.21	1.77	80.02	2.26	0.58	0.71
10.44	2.03	38.47	2.34	89.91	2.39	0.73	0.73
10.46	1.82	34.35	2.86	98.18	2.48	0.74	0.74
10.48	1.88	35.56	2.61	92.78	2.44	0.73	0.73
10.50	2.13	40.37	2.16	87.08	2.36	0.72	0.72
10.52	2.29	43.61	1.91	83.43	2.30	0.71	0.71
10.54	2.24	42.55	2.05	87.33	2.33	0.72	0.72
10.56	2.10	39.86	2.34	93.31	2.39	0.74	0.74
10.58	2.14	40.53	2.38	96.54	2.40	0.74	0.74
10.60	2.36	44.92	2.11	94.65	2.34	0.74	0.74
10.62	2.77	53.09	1.77	93.79	2.25	0.74	0.74
10.64	3.19	60.02	1.52	91.11	2.16	0.73	0.73
10.66	3.50	64.42	1.42	91.38	2.10	0.73	0.73
10.68	3.52	64.21	1.39	88.94	2.08	0.73	0.73
10.70	3.14	57.67	1.44	83.22	2.12	0.71	0.71
10.72	2.75	50.89	1.52	77.32	2.16	0.47	0.70
10.74	2.47	46.00	1.59	73.31	2.19	0.33	0.69
10.76	2.42	45.55	1.67	76.17	2.22	0.42	0.70
10.78	2.33	44.23	1.82	80.41	2.27	0.60	0.71
10.80	2.24	42.41	2.01	85.12	2.32	0.72	0.72
10.82	2.25	42.62	2.01	85.84	2.32	0.72	0.72
10.84	2.22	42.11	2.03	85.49	2.33	0.72	0.72
10.86	2.14	40.56	2.11	85.67	2.35	0.72	0.72
10.88	2.15	40.77	2.05	83.56	2.33	0.71	0.71
10.90	2.40	45.11	1.86	83.86	2.28	0.72	0.72
10.92	2.89	52.50	1.54	81.04	2.17	0.64	0.71
10.94	3.20	56.92	1.44	81.91	2.11	0.68	0.71
10.96	3.23	56.98	1.41	80.07	2.09	0.59	0.71
10.98	3.00	53.26	1.46	77.84	2.13	0.49	0.70
11.00	2.82	50.45	1.52	76.82	2.16	0.45	0.70
11.02	2.88	51.52	1.54	79.19	2.17	0.55	0.71
11.04	2.94	52.13	1.51	78.47	2.15	0.51	0.70
11.06	2.91	51.70	1.53	79.20	2.16	0.55	0.71
11.08	2.63	47.18	1.64	77.16	2.21	0.46	0.70
11.10	2.30	42.04	1.89	79.37	2.29	0.55	0.71
11.12	1.79	33.61	2.51	84.24	2.42	0.72	0.72
11.14	1.34	24.63	4.02	99.07	2.63	0.84	0.84
11.16	0.99	17.65	6.18	109.04	2.83	0.76	0.76
11.18	0.90	15.91	6.49	103.28	2.85	0.75	0.75
11.20	0.90	15.94	5.52	88.03	2.77	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
11.22	0.95	16.89	4.80	81.16	2.71	0.64	0.71
11.24	1.13	20.37	3.94	80.32	2.62	0.79	0.79
11.26	1.32	24.25	3.33	80.66	2.55	0.74	0.74
11.28	1.59	29.48	2.66	78.46	2.45	0.51	0.70
11.30	1.91	34.72	2.19	76.10	2.36	0.42	0.70
11.32	2.32	41.21	1.85	76.09	2.28	0.42	0.70
11.34	2.62	45.84	1.70	77.72	2.23	0.48	0.70
11.36	2.63	46.19	1.73	79.84	2.24	0.58	0.71
11.38	2.41	42.96	1.96	84.23	2.31	0.72	0.72
11.40	2.12	38.59	2.39	92.19	2.40	0.73	0.73
11.42	2.12	38.69	2.46	95.30	2.42	0.74	0.74
11.44	2.54	45.14	2.01	90.82	2.32	0.73	0.73
11.46	3.07	53.17	1.69	89.87	2.23	0.73	0.73
11.48	3.35	57.58	1.61	92.78	2.20	0.73	0.73
11.50	3.32	57.04	1.63	93.22	2.21	0.74	0.74
11.52	3.36	57.38	1.61	92.37	2.20	0.73	0.73
11.54	3.60	60.79	1.54	93.55	2.17	0.74	0.74
11.56	3.94	65.73	1.45	95.61	2.12	0.74	0.74
11.58	4.25	70.10	1.40	98.26	2.09	0.74	0.74
11.60	4.56	74.04	1.35	99.59	2.04	0.75	0.75
11.62	5.03	80.25	1.29	103.75	1.98	0.76	0.76
11.64	5.54	86.93	1.26	109.19	1.93	0.76	0.76
11.66	5.94	92.16	1.23	113.71	1.90	0.77	0.77
11.68	6.13	94.32	1.22	115.18	1.88	0.77	0.77
11.70	6.35	96.83	1.20	116.14	1.85	0.78	0.78
11.72	6.65	100.20	1.17	117.00	1.81	0.78	0.78
11.74	7.07	105.42	1.13	119.29	1.78	0.78	0.78
11.76	7.53	112.04	1.12	126.01	1.78	0.79	0.79
11.78	8.08	119.22	1.09	129.86	1.75	0.80	0.80
11.80	8.74	127.31	1.01	128.89	1.71	0.80	0.80
11.82	9.78	138.70	1.00	138.70	1.62	0.81	0.81
11.84	10.50	146.20	1.00	146.20	1.56	0.82	0.82
11.86	10.66	147.40	1.00	147.40	1.54	0.82	0.82
11.88	9.85	136.90	1.00	136.90	1.57	0.81	0.81
11.90	8.75	122.63	1.00	122.63	1.61	0.79	0.79
11.92	7.49	106.66	1.00	106.66	1.68	0.76	0.76
11.94	5.77	85.42	1.19	101.53	1.84	0.75	0.75
11.96	4.22	65.83	1.36	89.58	2.06	0.73	0.73
11.98	3.13	51.01	1.77	90.43	2.26	0.73	0.73
12.00	2.67	45.14	2.45	110.70	2.41	0.77	0.77
12.02	2.35	40.84	3.26	133.20	2.54	0.83	0.83
12.04	1.96	34.98	4.59	160.46	2.69	1.00	1.00
12.06	1.65	29.68	5.61	166.45	2.78	0.85	0.85
12.08	1.41	25.48	6.47	164.79	2.85	0.85	0.85
12.10	1.24	22.38	7.12	159.45	2.89	0.84	0.84
12.12	1.20	21.49	6.85	147.14	2.87	0.82	0.82
12.14	1.18	20.82	6.29	130.97	2.83	0.80	0.80
12.16	1.17	20.24	5.59	113.23	2.78	0.77	0.77

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
12.18	1.19	20.19	5.04	101.74	2.73	0.75	0.75
12.20	1.23	20.67	4.49	92.86	2.68	0.87	0.87
12.22	1.27	21.17	4.18	88.44	2.65	0.83	0.83
12.24	1.41	23.65	4.17	98.51	2.65	0.85	0.85
12.26	1.48	24.97	4.42	110.48	2.67	0.90	0.90
12.28	1.50	25.53	4.86	124.03	2.71	0.79	0.79
12.30	1.37	23.37	5.42	126.64	2.76	0.79	0.79
12.32	1.28	21.87	5.92	129.48	2.81	0.80	0.80
12.34	1.23	20.96	6.09	127.59	2.82	0.79	0.79
12.36	1.20	20.30	6.19	125.71	2.83	0.79	0.79
12.38	1.17	19.77	6.16	121.85	2.82	0.79	0.79
12.40	1.15	19.30	5.90	113.99	2.80	0.77	0.77
12.42	1.15	18.94	5.55	105.15	2.78	0.76	0.76
12.44	1.14	18.66	5.19	96.79	2.74	0.74	0.74
12.46	1.15	18.55	4.84	89.82	2.71	0.73	0.73
12.48	1.15	18.54	4.59	85.14	2.69	0.86	0.86
12.50	1.19	18.97	4.44	84.27	2.67	0.85	0.85
12.52	1.30	20.76	3.98	82.64	2.63	0.80	0.80
12.54	1.57	24.71	3.23	79.77	2.53	0.72	0.72
12.56	1.94	30.30	2.54	77.07	2.43	0.46	0.70
12.58	2.19	34.13	2.42	82.59	2.41	0.71	0.71
12.60	2.22	34.70	2.58	89.39	2.44	0.73	0.73
12.62	1.99	31.37	2.99	93.65	2.50	0.73	0.73
12.64	1.70	27.07	3.65	98.74	2.59	0.81	0.81
12.66	1.45	23.12	4.42	102.17	2.67	0.88	0.88
12.68	1.30	20.72	4.93	102.24	2.72	0.75	0.75
12.70	1.25	19.82	4.80	95.12	2.71	0.74	0.74
12.72	1.26	19.77	4.50	88.90	2.68	0.86	0.86
12.74	1.28	20.09	4.44	89.27	2.67	0.86	0.86
12.76	1.36	21.16	4.20	88.79	2.65	0.84	0.84
12.78	1.47	22.76	3.89	88.49	2.62	0.81	0.81
12.80	1.49	23.12	3.95	91.36	2.62	0.82	0.82
12.82	1.38	21.52	4.47	96.19	2.68	0.88	0.88
12.84	1.23	19.04	4.95	94.17	2.72	0.74	0.74
12.86	1.16	17.81	4.80	85.55	2.71	0.72	0.72
12.88	1.17	17.77	4.30	76.33	2.66	0.81	0.81
12.90	1.14	17.31	4.54	78.68	2.68	0.84	0.84
12.92	1.09	16.59	5.02	83.31	2.73	0.71	0.71
12.94	1.05	15.84	5.34	84.60	2.76	0.72	0.72
12.96	1.06	15.96	5.17	82.44	2.74	0.71	0.71
12.98	1.08	16.22	4.91	79.67	2.72	0.57	0.71
13.00	1.10	16.48	4.86	80.17	2.71	0.59	0.71
13.02	1.09	16.29	4.98	81.08	2.73	0.64	0.71
13.04	1.07	16.08	5.12	82.27	2.74	0.71	0.71
13.06	1.07	16.03	5.08	81.42	2.73	0.66	0.71
13.08	1.12	16.69	4.68	78.04	2.70	0.85	0.85
13.10	1.24	18.25	4.04	73.82	2.63	0.79	0.79
13.12	1.40	20.66	3.50	72.30	2.57	0.73	0.73

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
13.14	1.51	22.19	3.38	74.98	2.55	0.73	0.73
13.16	1.46	21.56	3.66	78.82	2.59	0.76	0.76
13.18	1.32	19.49	4.22	82.34	2.65	0.82	0.82
13.20	1.21	17.90	4.64	83.09	2.69	0.86	0.86
13.22	1.20	17.67	4.54	80.28	2.68	0.84	0.84
13.24	1.27	18.56	4.12	76.45	2.64	0.80	0.80
13.26	1.33	19.40	3.86	74.92	2.61	0.77	0.77
13.28	1.34	19.59	4.04	79.21	2.63	0.80	0.80
13.30	1.26	18.38	4.38	80.51	2.67	0.83	0.83
13.32	1.18	17.04	4.63	78.94	2.69	0.85	0.85
13.34	1.12	16.07	4.59	73.69	2.69	0.83	0.83
13.36	1.13	16.13	4.47	72.04	2.68	0.82	0.82
13.38	1.20	17.09	4.13	70.56	2.64	0.78	0.78
13.40	1.30	18.57	3.72	69.08	2.60	0.74	0.74
13.42	1.39	19.89	3.65	72.56	2.59	0.75	0.75
13.44	1.41	20.19	3.89	78.65	2.62	0.78	0.78
13.46	1.40	20.08	4.05	81.26	2.63	0.80	0.80
13.48	1.30	18.61	4.49	83.63	2.68	0.85	0.85
13.50	1.16	16.49	5.05	83.31	2.73	0.71	0.71
13.52	0.99	13.96	6.07	84.79	2.82	0.72	0.72
13.54	0.92	12.91	6.18	79.79	2.83	0.57	0.71
13.56	0.93	12.97	5.75	74.57	2.79	0.37	0.69
13.58	0.96	13.31	5.46	72.70	2.77	0.32	0.69
13.60	0.96	13.35	5.52	73.75	2.77	0.35	0.69
13.62	0.97	13.38	5.57	74.55	2.78	0.37	0.69
13.64	1.01	14.00	5.20	72.84	2.75	0.32	0.69
13.66	1.18	16.26	4.20	68.28	2.65	0.78	0.78
13.68	1.31	18.11	3.56	64.50	2.58	0.72	0.72
13.70	1.41	19.43	3.45	67.04	2.56	0.71	0.71
13.72	1.39	19.36	3.83	74.19	2.61	0.77	0.77
13.74	1.38	19.28	4.10	78.98	2.64	0.80	0.80
13.76	1.33	18.53	4.39	81.28	2.67	0.83	0.83
13.78	1.20	16.64	4.89	81.33	2.72	0.65	0.71
13.80	1.10	15.10	5.46	82.53	2.77	0.71	0.71
13.82	1.07	14.63	5.60	81.97	2.78	0.69	0.71
13.84	1.11	15.23	5.34	81.43	2.76	0.66	0.71
13.86	1.15	15.83	5.23	82.84	2.75	0.71	0.71
13.88	1.29	17.63	4.47	78.84	2.68	0.83	0.83
13.90	1.35	18.37	4.08	74.96	2.64	0.79	0.79
13.92	1.62	21.93	3.09	67.84	2.52	0.23	0.68
13.94	1.77	23.91	2.76	65.97	2.47	0.18	0.67
13.96	2.34	31.40	2.04	63.91	2.33	0.15	0.67
13.98	2.66	35.72	1.89	67.46	2.29	0.21	0.68
14.00	3.19	42.72	1.73	73.89	2.24	0.35	0.69
14.02	3.73	50.09	1.67	83.64	2.22	0.72	0.72
14.04	4.32	57.95	1.63	94.66	2.21	0.74	0.74
14.06	4.56	61.29	1.66	101.48	2.22	0.75	0.75
14.08	4.19	56.85	1.92	109.04	2.30	0.76	0.76

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
14.10	3.56	48.88	2.47	120.87	2.42	0.78	0.78
14.12	2.79	39.15	3.82	149.54	2.61	0.91	0.91
14.14	2.22	31.60	5.69	179.83	2.79	0.86	0.86
14.16	1.90	27.17	7.40	201.05	2.91	0.89	0.89
14.18	1.89	27.07	7.51	203.27	2.92	0.89	0.89
14.20	1.99	28.38	6.98	197.95	2.88	0.88	0.88
14.22	2.15	30.36	6.30	191.41	2.84	0.88	0.88
14.24	2.25	31.77	5.99	190.44	2.81	0.88	0.88
14.26	2.28	32.06	5.94	190.47	2.81	0.88	0.88
14.28	2.23	31.32	6.07	190.03	2.82	0.88	0.88
14.30	2.20	30.79	6.20	190.88	2.83	0.88	0.88
14.32	2.29	32.01	5.99	191.67	2.81	0.88	0.88
14.34	2.55	35.40	5.38	190.46	2.76	0.88	0.88
14.36	2.78	38.51	4.87	187.33	2.71	0.87	0.87
14.38	2.88	39.67	4.70	186.33	2.70	1.05	1.05
14.40	2.86	39.37	4.81	189.56	2.71	0.88	0.88
14.42	2.90	39.85	4.84	192.77	2.71	0.88	0.88
14.44	3.32	45.35	4.15	188.06	2.64	1.00	1.00
14.46	4.11	55.47	3.19	177.00	2.53	0.88	0.88
14.48	4.83	64.59	2.64	170.37	2.45	0.85	0.85
14.50	5.36	71.24	2.37	169.06	2.40	0.85	0.85
14.52	5.79	76.71	2.29	176.01	2.38	0.86	0.86
14.54	6.36	83.84	2.13	178.23	2.35	0.86	0.86
14.56	6.82	89.43	2.01	180.12	2.32	0.86	0.86
14.58	6.58	86.28	2.12	183.02	2.35	0.87	0.87
14.60	5.98	78.93	2.45	193.71	2.42	0.88	0.88
14.62	5.22	69.45	3.04	211.03	2.51	0.89	0.89
14.64	4.77	63.65	3.49	222.16	2.57	0.96	0.96
14.66	4.51	60.11	3.77	226.72	2.60	1.00	1.00
14.68	4.61	61.13	3.54	216.57	2.58	0.96	0.96
14.70	5.05	66.38	3.04	201.80	2.51	0.88	0.88
14.72	5.45	71.09	2.66	189.42	2.45	0.88	0.88
14.74	5.30	69.00	2.77	191.29	2.47	0.88	0.88
14.76	4.79	62.60	3.17	198.34	2.53	0.90	0.90
14.78	4.39	57.40	3.55	203.53	2.58	0.95	0.95
14.80	4.37	56.93	3.48	198.10	2.57	0.93	0.93
14.82	4.66	60.21	3.09	185.93	2.52	0.87	0.87
14.84	5.24	67.30	2.64	177.54	2.45	0.86	0.86
14.86	6.58	83.31	2.00	166.55	2.32	0.85	0.85
14.88	8.09	100.98	1.61	162.72	2.20	0.84	0.84
14.90	10.13	124.39	1.36	169.53	2.06	0.85	0.85
14.92	23.81	275.25	1.00	275.25	1.55	0.96	0.96
14.94	37.13	415.53	1.00	415.53	1.29	1.06	1.06

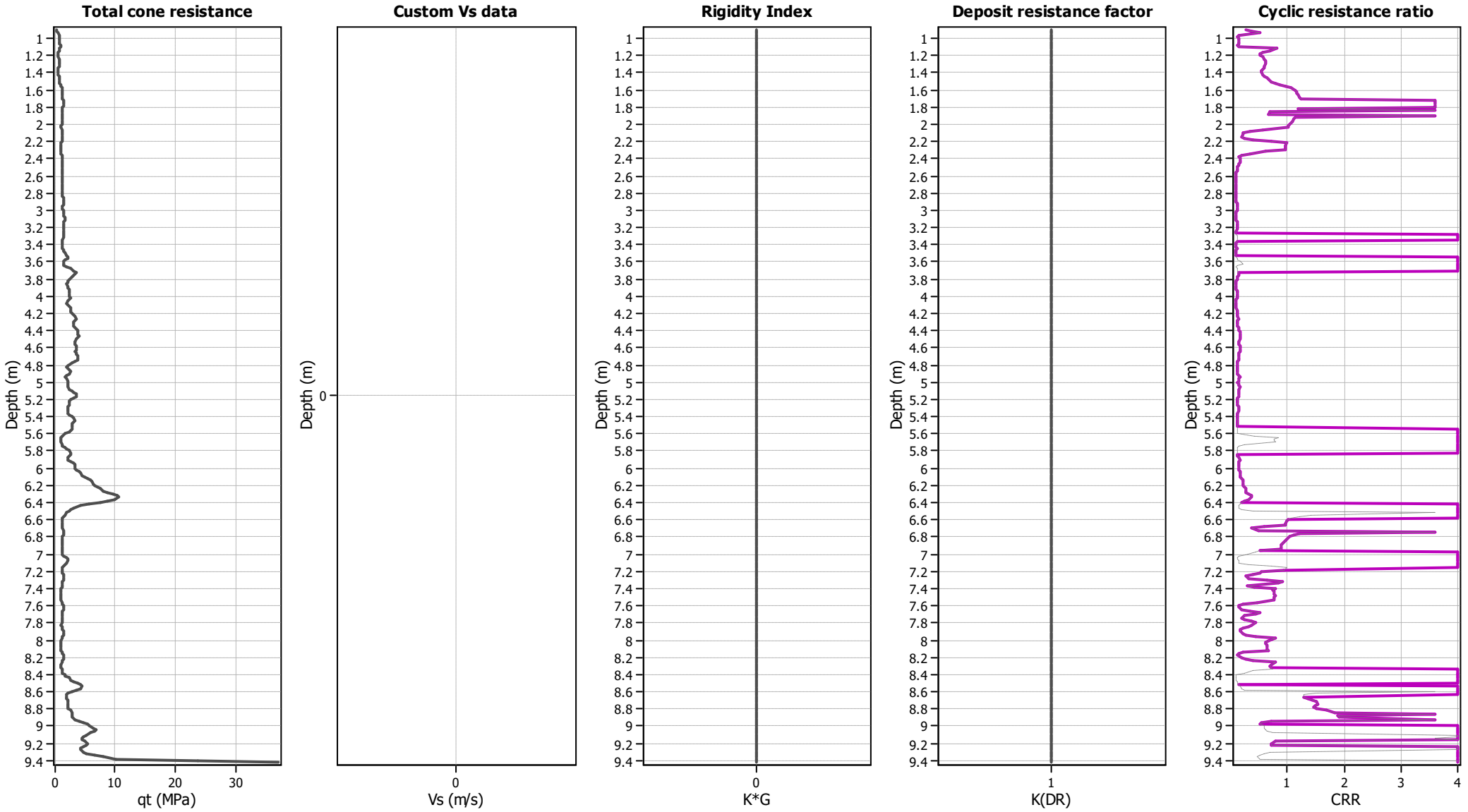
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$

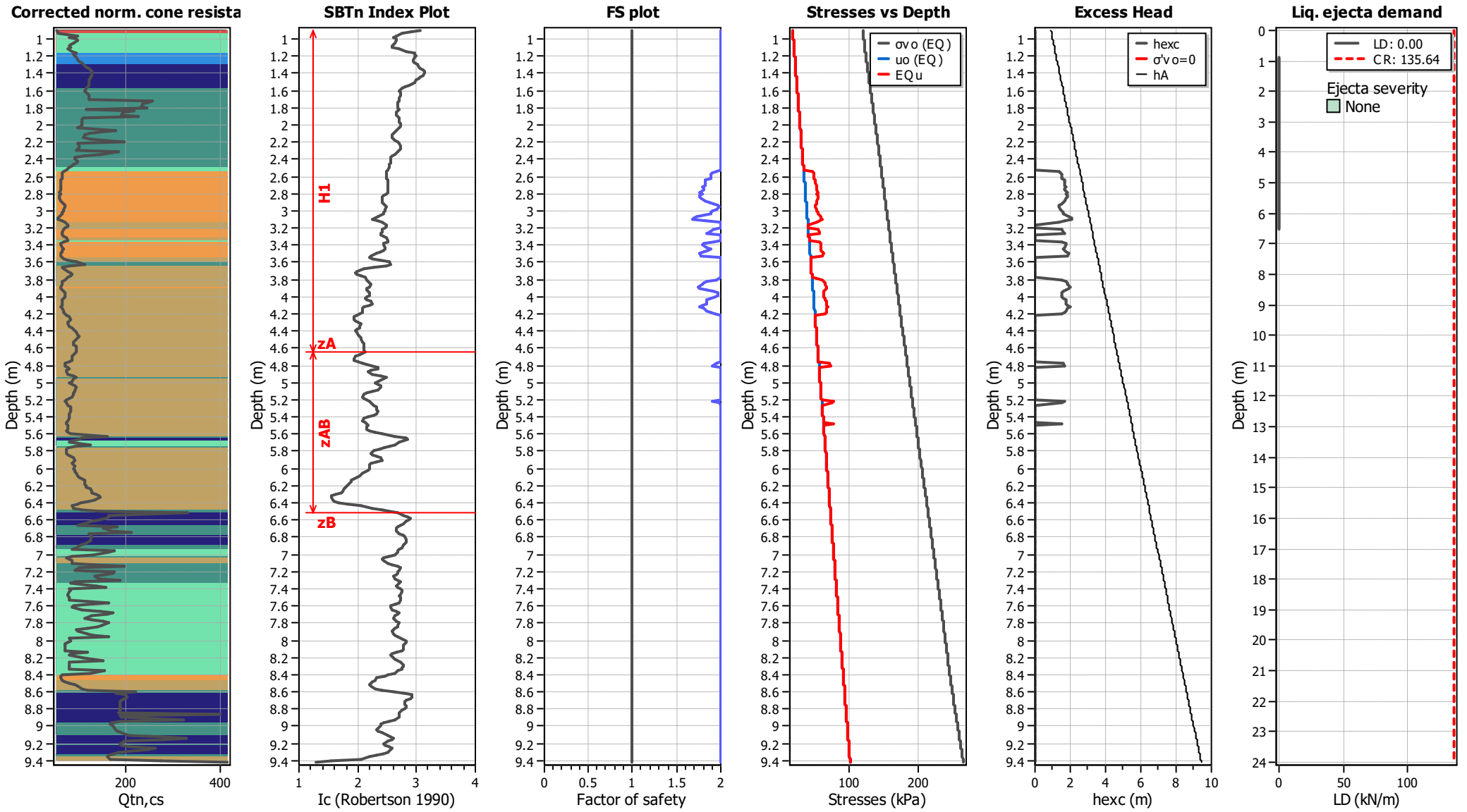
Abbreviations

q_t:	Total cone resistance
K_c:	Cone resistance correction factor due to fines
$Q_{tn,cs}$:	Adjusted and corrected cone resistance due to fines
I_c:	Soil behavior type index
$S_{u(liq)}/\sigma'_v$:	Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$:	Calculated peak undrained strength ratio

Aging Calculation Estimation



Ejecta Severity Estimation



Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

LIQUEFACTION ANALYSIS REPORT

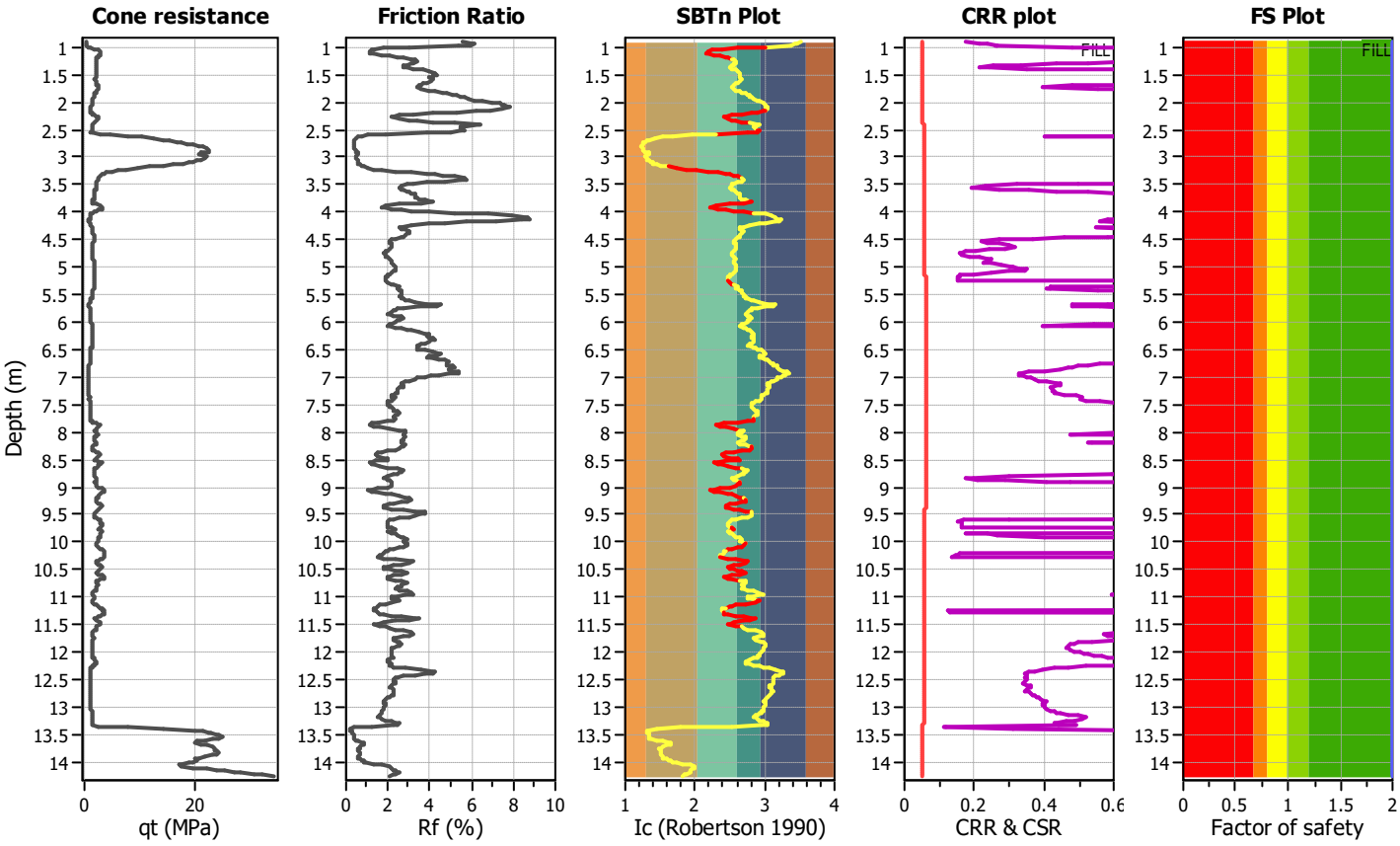
Project title : CWLP Liquefaction Analysis

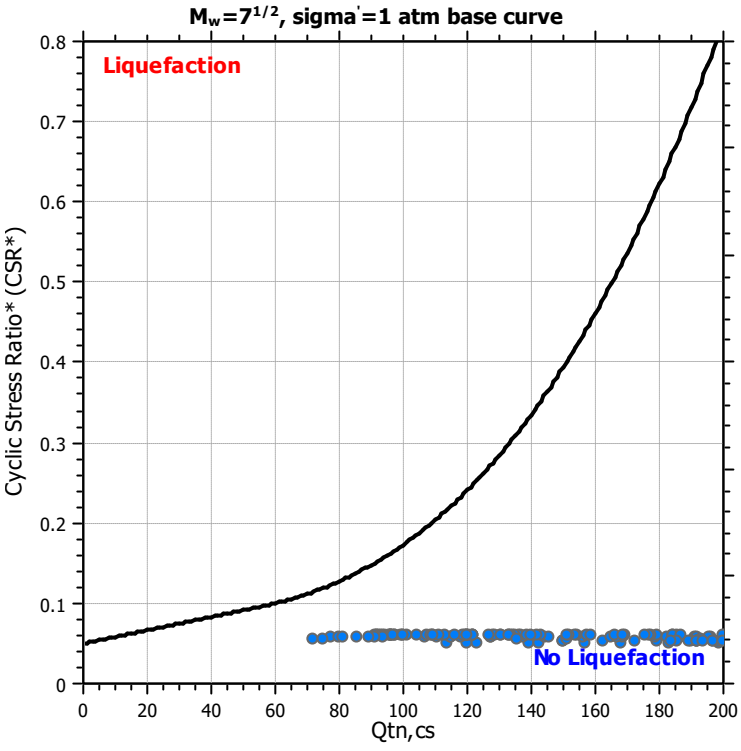
Location : East Lake Shore Drive, Springfield, Illinois

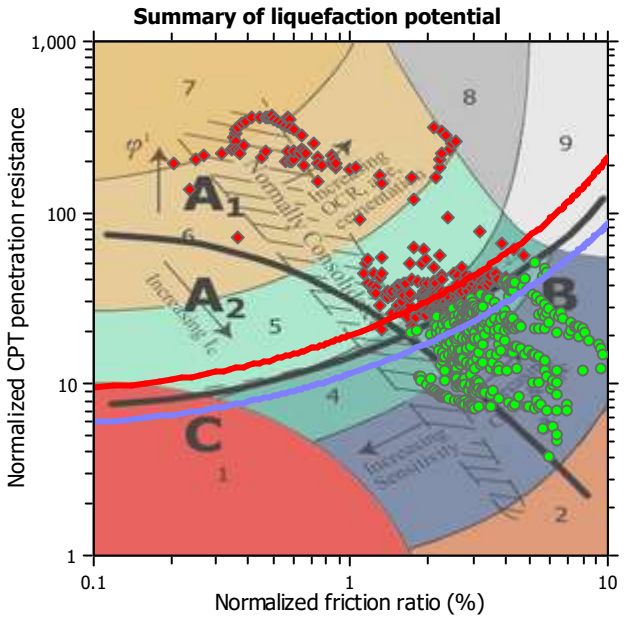
CPT file : CWLP CPT-4L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	0.30 m	Use fill:	Yes	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	4.63 m	Fill height:	4.33 m	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	19.50 kN/m³	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.10	Unit weight calculation:	Based on SBT	K_σ applied:	No		

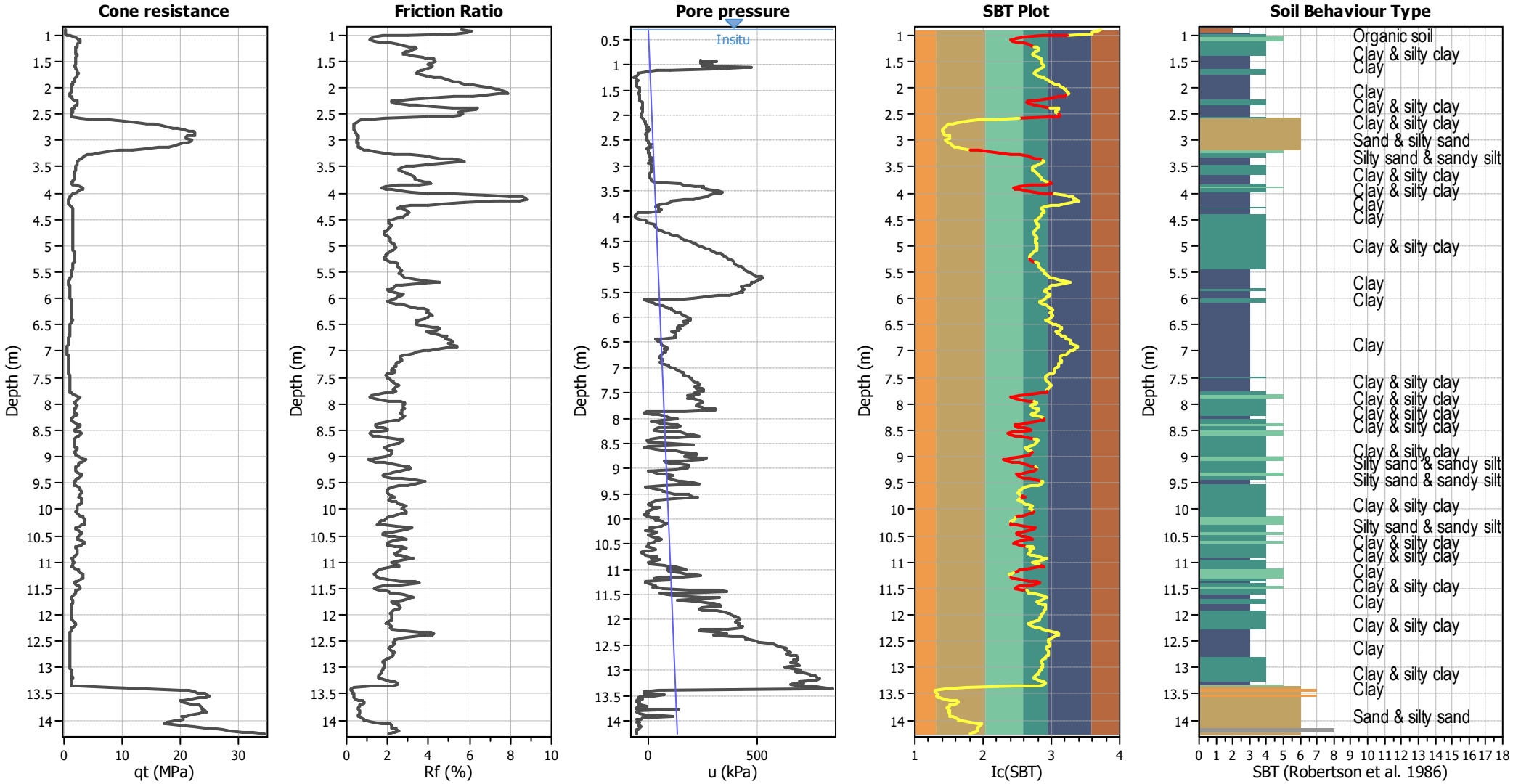






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



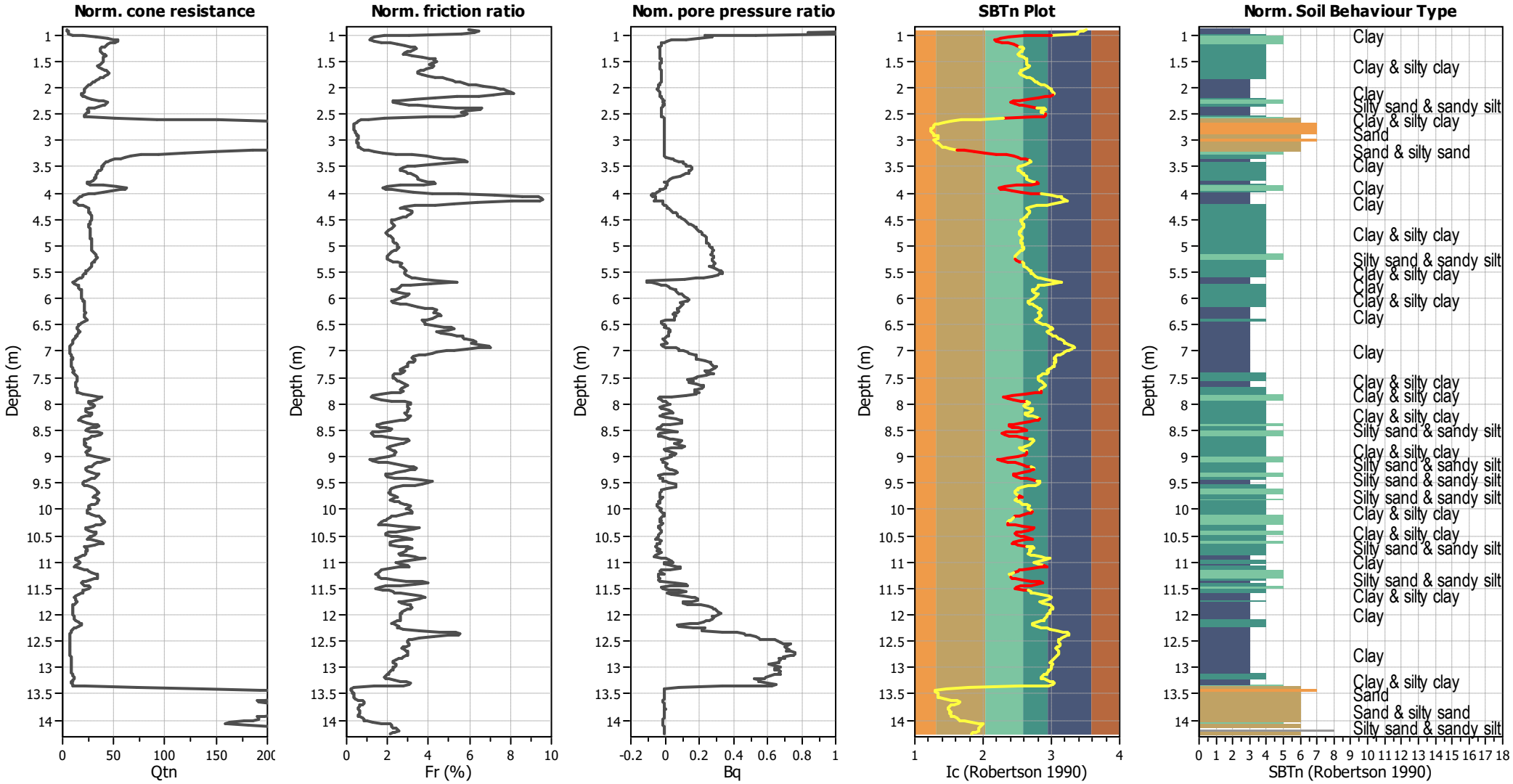
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.50 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.30 m	Fill height:	4.33 m	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



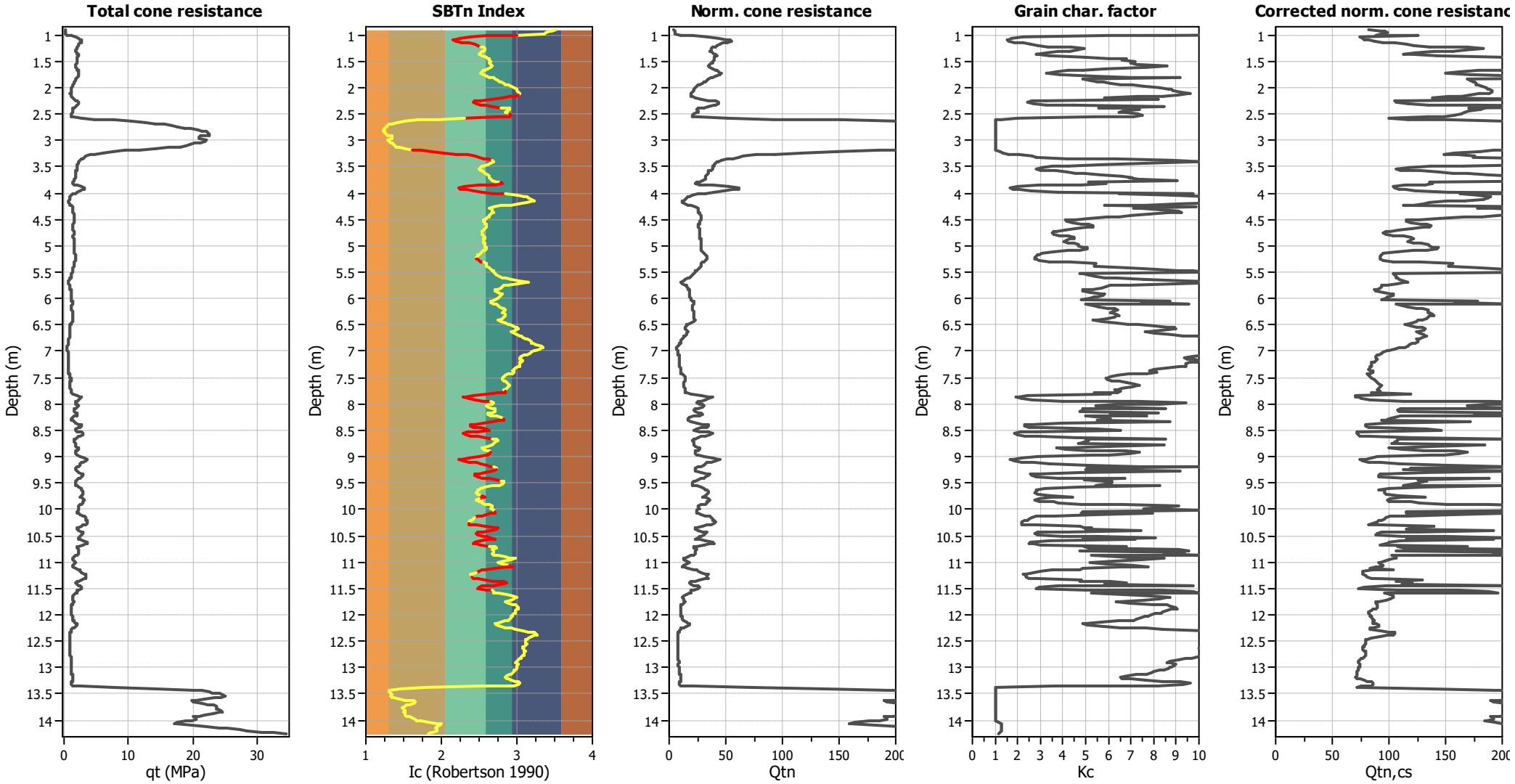
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.50 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.30 m	Fill height:	4.33 m	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

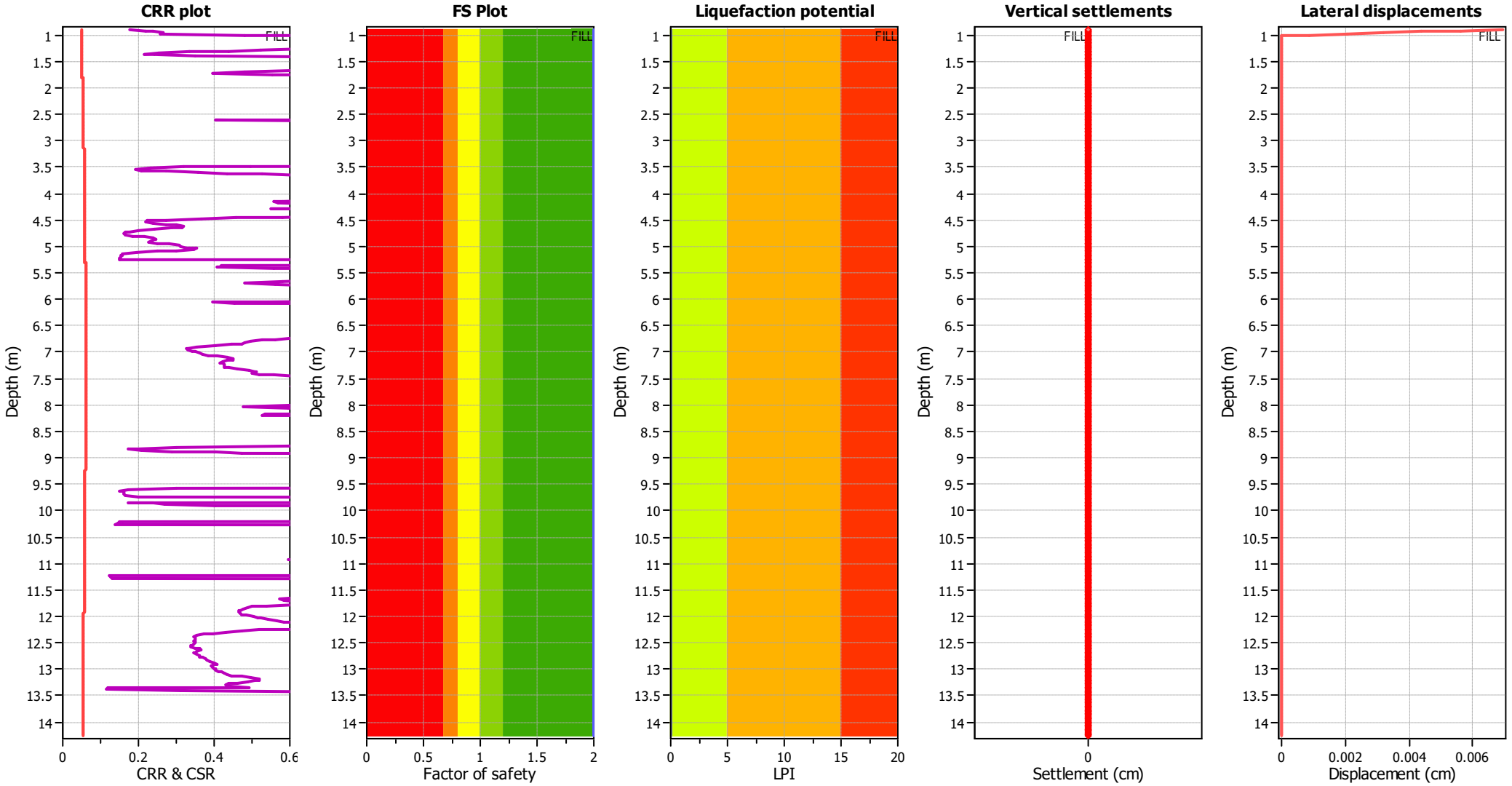
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.50 kN/m^3
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.30 m	Fill height:	4.33 m	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.50 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.30 m	Fill height:	4.33 m	Limit depth:	N/A

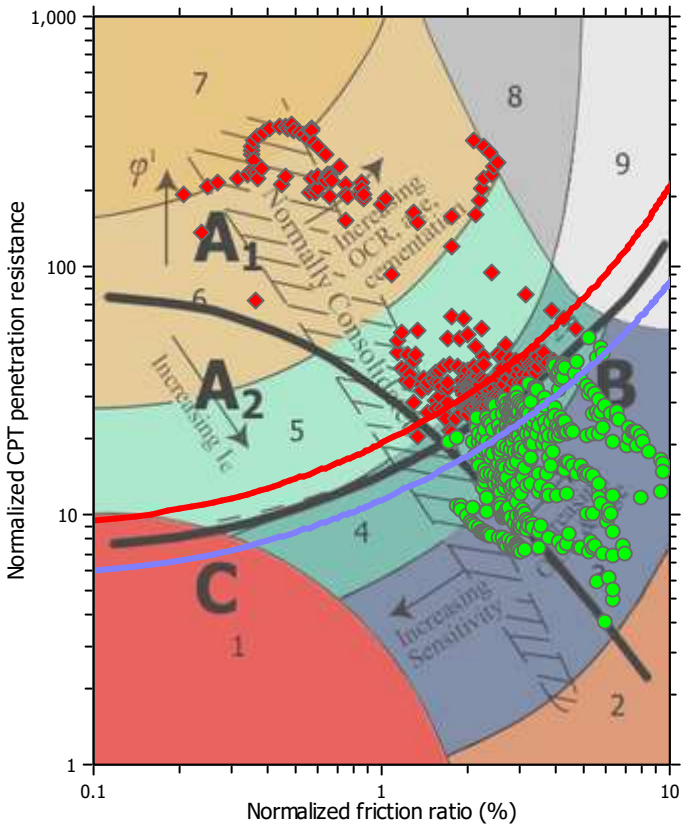
F.S. color scheme

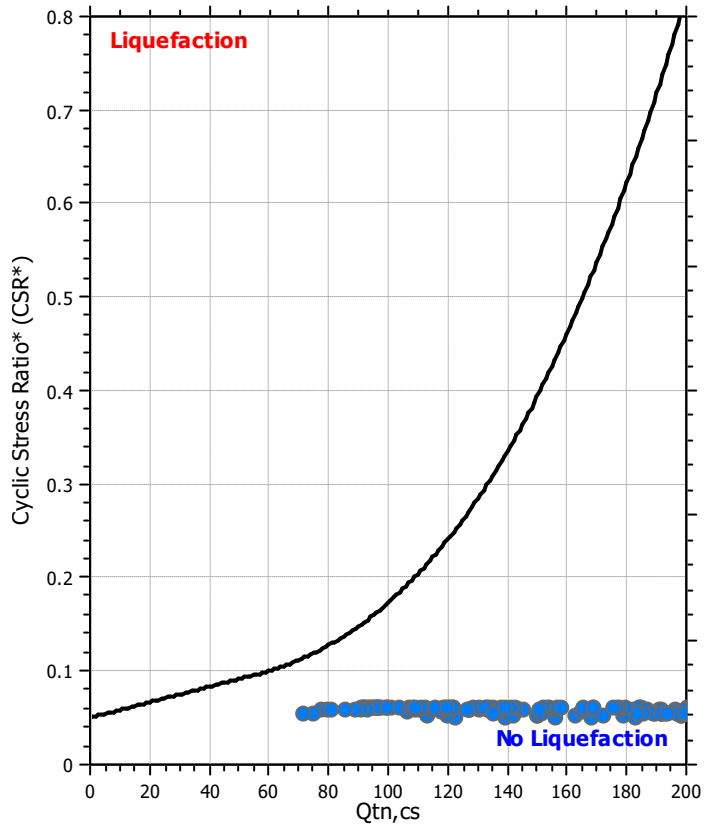
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

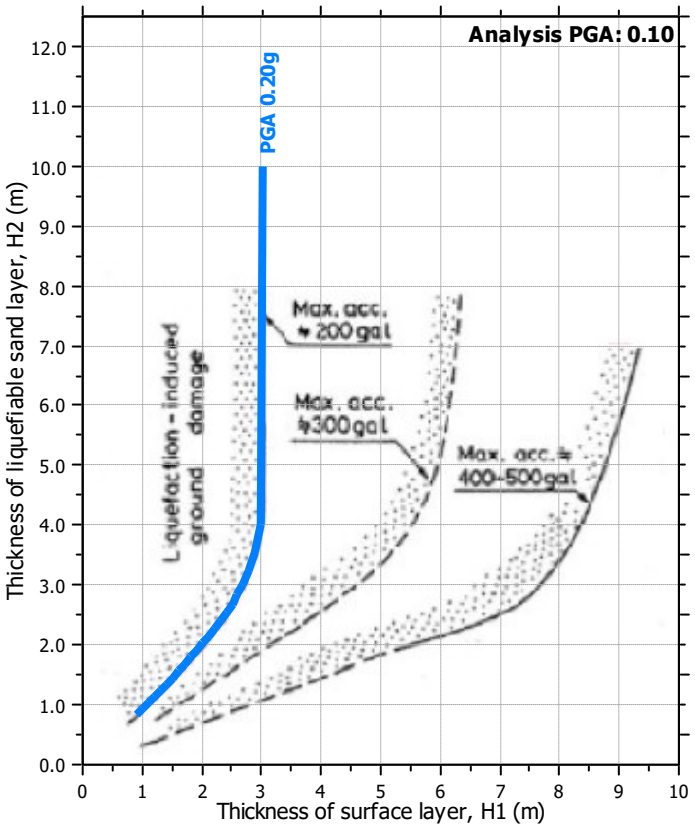
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



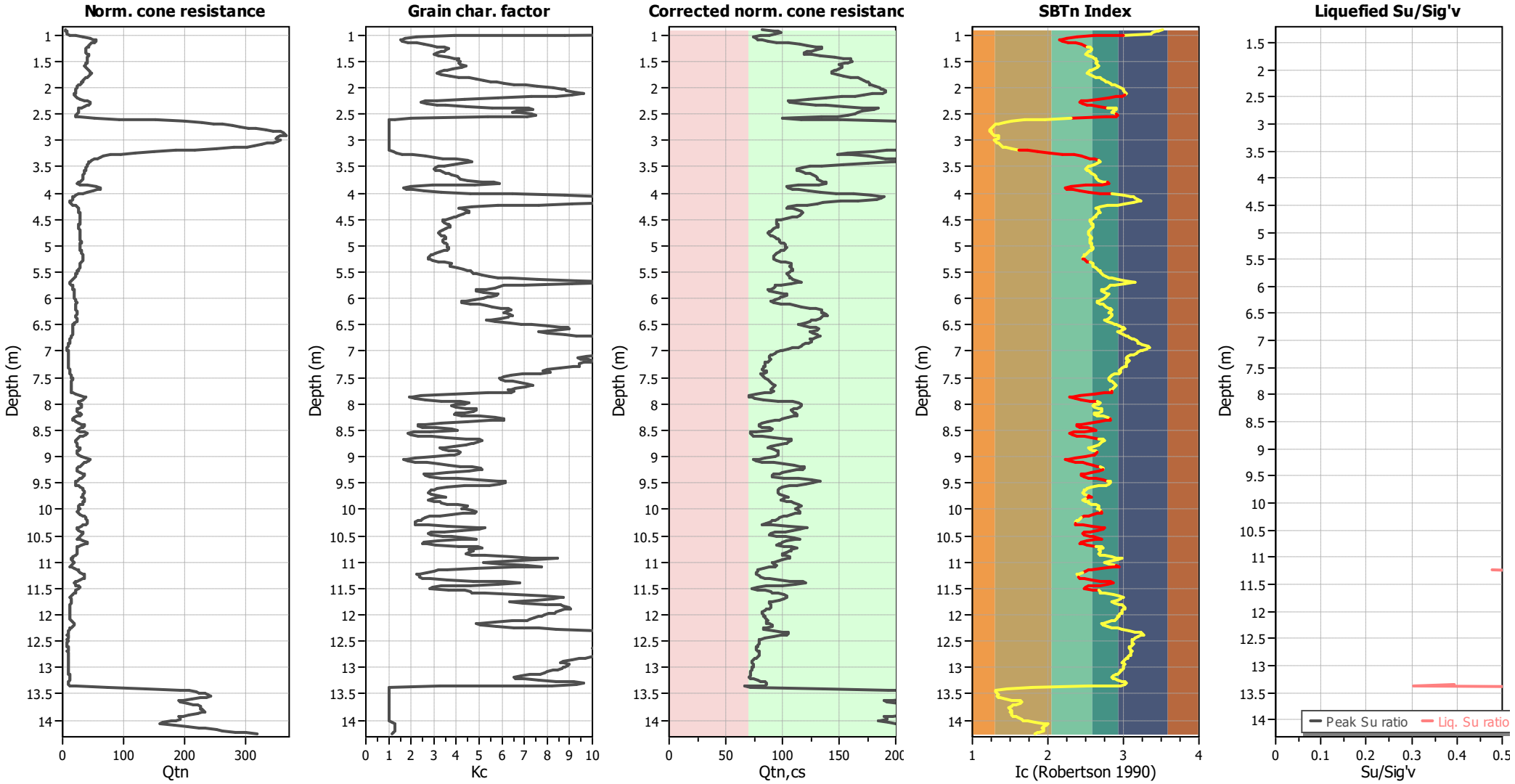




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.50 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.30 m	Fill height:	4.33 m	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

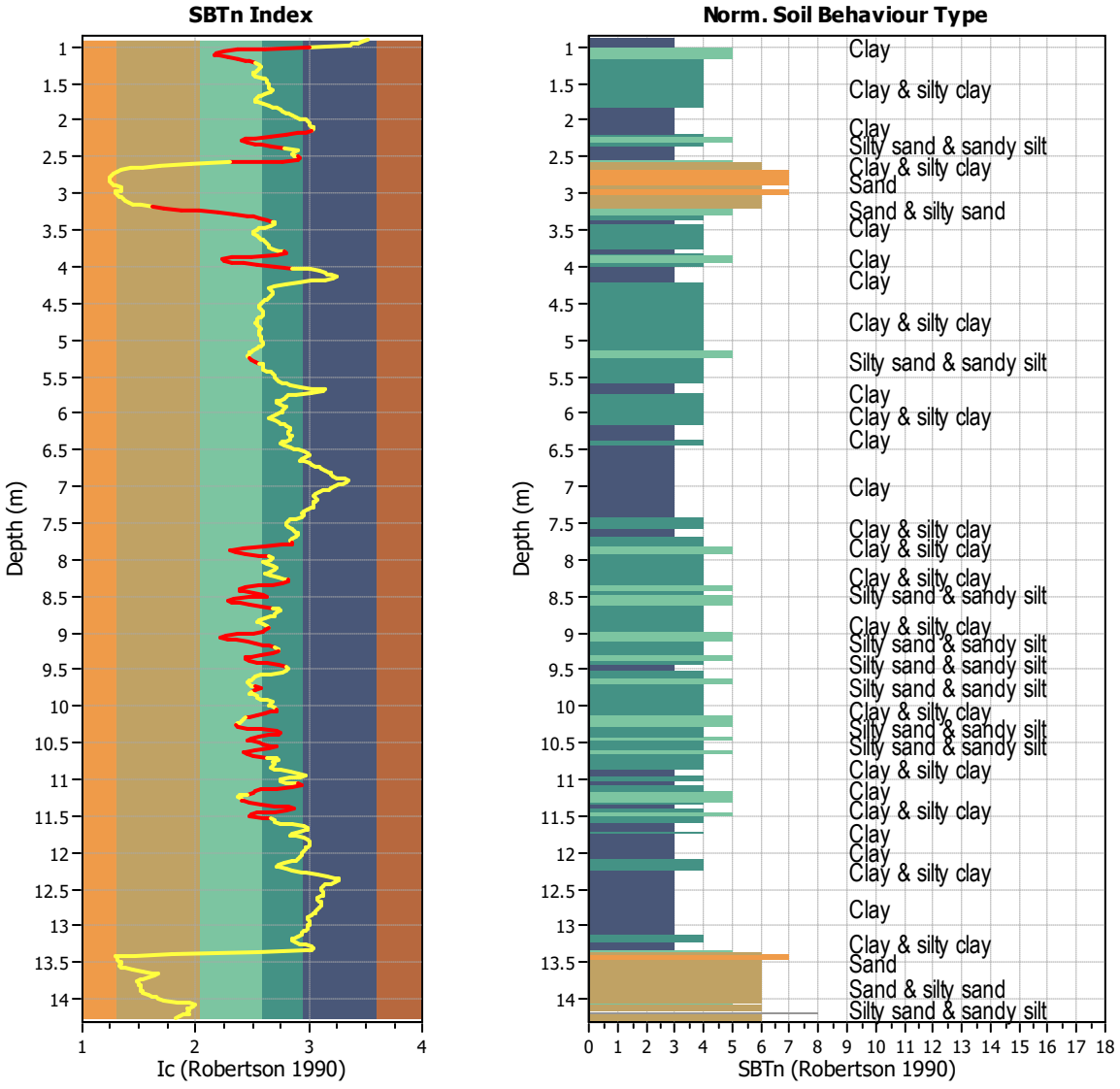
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	4.63 m	Fill weight:	19.50 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	0.30 m	Fill height:	4.33 m	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		**General statistics**	
I_c minimum check value:	1.70	Total points in CPT file:	669
I_c maximum check value:	3.00	Total points excluded:	182
I_c change ratio value:	0.0100	Exclusion percentage:	27.20%
Minimum number of points in layer:	4	Number of layers detected:	30

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	4	Start depth: 1.02 (m)	4	Clay & silty clay
		End depth: 1.08 (m)	5	Silty sand & sandy silt
Transition layer 2	8	Start depth: 1.10 (m)	5	Silty sand & sandy silt
		End depth: 1.24 (m)	4	Clay & silty clay
Transition layer 3	7	Start depth: 2.16 (m)	3	Clay
		End depth: 2.28 (m)	5	Silty sand & sandy silt
Transition layer 4	7	Start depth: 2.28 (m)	5	Silty sand & sandy silt
		End depth: 2.40 (m)	3	Clay
Transition layer 5	5	Start depth: 2.52 (m)	3	Clay
		End depth: 2.60 (m)	6	Sand & silty sand
Transition layer 6	11	Start depth: 3.20 (m)	6	Sand & silty sand
		End depth: 3.40 (m)	3	Clay
Transition layer 7	5	Start depth: 3.82 (m)	3	Clay
		End depth: 3.90 (m)	5	Silty sand & sandy silt
Transition layer 8	8	Start depth: 3.90 (m)	5	Silty sand & sandy silt
		End depth: 4.04 (m)	3	Clay
Transition layer 9	5	Start depth: 5.26 (m)	5	Silty sand & sandy silt
		End depth: 5.34 (m)	4	Clay & silty clay
Transition layer 10	6	Start depth: 7.78 (m)	4	Clay & silty clay
		End depth: 7.88 (m)	5	Silty sand & sandy silt
Transition layer 11	6	Start depth: 7.88 (m)	5	Silty sand & sandy silt
		End depth: 7.98 (m)	4	Clay & silty clay
Transition layer 12	6	Start depth: 8.30 (m)	4	Clay & silty clay
		End depth: 8.40 (m)	5	Silty sand & sandy silt
Transition layer 13	5	Start depth: 8.42 (m)	5	Silty sand & sandy silt
		End depth: 8.50 (m)	4	Clay & silty clay
Transition layer 14	4	Start depth: 8.50 (m)	4	Clay & silty clay
		End depth: 8.56 (m)	5	Silty sand & sandy silt
Transition layer 15	7	Start depth: 8.56 (m)	5	Silty sand & sandy silt
		End depth: 8.68 (m)	4	Clay & silty clay
Transition layer 16	7	Start depth: 8.94 (m)	4	Clay & silty clay
		End depth: 9.06 (m)	5	Silty sand & sandy silt
Transition layer 17	9	Start depth: 9.06 (m)	5	Silty sand & sandy silt
		End depth: 9.22 (m)	4	Clay & silty clay
Transition layer 18	5	Start depth: 9.26 (m)	4	Clay & silty clay
		End depth: 9.34 (m)	5	Silty sand & sandy silt
Transition layer 19	7	Start depth: 9.36 (m)	5	Silty sand & sandy silt
		End depth: 9.48 (m)	3	Clay
Transition layer 20	4	Start depth: 9.76 (m)	4	Clay & silty clay
		End depth: 9.82 (m)	5	Silty sand & sandy silt
Transition layer 21	7	Start depth: 10.06 (m)	4	Clay & silty clay
		End depth: 10.18 (m)	5	Silty sand & sandy silt
Transition layer 22	5	Start depth: 10.28 (m)	5	Silty sand & sandy silt
		End depth: 10.36 (m)	4	Clay & silty clay
Transition layer 23	6	Start depth: 10.36 (m)	4	Clay & silty clay
		End depth: 10.46 (m)	5	Silty sand & sandy silt

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 24	6	Start depth: 10.46 (m)	5	Silty sand & sandy silt
		End depth: 10.56 (m)	4	Clay & silty clay
Transition layer 25	4	Start depth: 10.56 (m)	4	Clay & silty clay
		End depth: 10.62 (m)	5	Silty sand & sandy silt
Transition layer 26	5	Start depth: 10.64 (m)	5	Silty sand & sandy silt
		End depth: 10.72 (m)	4	Clay & silty clay
Transition layer 27	8	Start depth: 11.08 (m)	3	Clay
		End depth: 11.22 (m)	5	Silty sand & sandy silt
Transition layer 28	6	Start depth: 11.30 (m)	5	Silty sand & sandy silt
		End depth: 11.40 (m)	3	Clay
Transition layer 29	5	Start depth: 11.40 (m)	3	Clay
		End depth: 11.48 (m)	5	Silty sand & sandy silt
Transition layer 30	4	Start depth: 11.50 (m)	5	Silty sand & sandy silt
		End depth: 11.56 (m)	4	Clay & silty clay

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.16	11.30	242.90	100.00	15.16
2	0.92	0.16	11.30	242.90	95.67	15.55
3	0.94	0.28	22.00	319.30	92.76	15.69
4	0.96	0.23	15.60	243.90	88.46	15.82
5	0.98	0.24	15.10	296.50	87.28	15.66
6	1.00	0.26	15.50	277.40	58.59	15.91
7	1.02	0.93	16.40	250.50	36.30	16.39
8	1.04	1.80	25.10	478.30	25.45	16.80
9	1.06	2.15	27.70	447.20	20.64	17.09
10	1.08	2.54	28.50	320.60	18.39	17.22
11	1.10	2.83	30.60	102.20	17.77	17.36
12	1.12	2.80	36.70	42.60	18.73	17.52
13	1.14	2.68	42.60	-1.20	21.73	17.70
14	1.16	2.36	52.10	-43.20	25.11	17.84
15	1.18	2.22	57.10	-45.90	28.01	17.94
16	1.20	2.25	60.40	-46.00	29.91	18.01
17	1.22	2.11	64.70	-49.20	31.83	18.07
18	1.24	1.98	69.30	-63.30	33.76	18.07
19	1.26	1.89	63.60	-54.30	34.65	18.03
20	1.28	1.88	60.50	-49.50	34.14	17.94
21	1.30	1.89	56.60	-47.40	33.67	17.88
22	1.32	1.84	54.50	-46.50	32.77	17.84
23	1.34	1.94	53.30	-47.60	31.67	17.83
24	1.36	2.07	54.20	-50.10	30.74	17.91
25	1.38	2.18	62.40	-52.80	30.90	18.02
26	1.40	2.16	68.30	-53.30	32.00	18.14
27	1.42	2.13	74.00	-51.70	34.71	18.23
28	1.44	1.89	83.30	-44.40	36.15	18.32
29	1.46	2.10	86.70	-38.80	37.14	18.38
30	1.48	2.10	87.20	-36.30	36.93	18.39
31	1.50	1.96	86.00	-35.10	37.56	18.38
32	1.52	1.97	86.00	-35.10	37.33	18.33
33	1.54	2.02	76.70	-39.60	37.37	18.27
34	1.56	1.83	75.50	-40.70	37.61	18.18
35	1.58	1.75	70.90	-42.20	39.05	18.15
36	1.60	1.75	74.60	-39.30	39.01	18.15
37	1.62	1.84	75.50	-37.60	38.09	18.20
38	1.64	1.97	77.10	-37.50	36.03	18.25
39	1.66	2.18	78.80	-36.10	34.53	18.29
40	1.68	2.17	78.20	-39.20	33.51	18.31
41	1.70	2.21	78.50	-38.80	32.67	18.30
42	1.72	2.32	74.90	-37.60	31.80	18.34
43	1.74	2.47	84.50	-26.30	31.74	18.36
44	1.76	2.28	81.80	-26.50	32.88	18.38
45	1.78	2.14	81.80	-26.50	35.15	18.37
46	1.80	2.00	87.70	-23.60	37.35	18.37
47	1.82	1.90	87.10	-24.50	39.57	18.38
48	1.84	1.81	88.30	-26.80	41.20	18.35

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	1.71	86.00	-26.10	42.97	18.32
50	1.88	1.60	84.70	-24.00	44.32	18.30
51	1.90	1.60	87.00	-22.70	45.64	18.28
52	1.92	1.52	84.90	-23.20	47.10	18.25
53	1.94	1.39	81.90	-22.20	49.15	18.19
54	1.96	1.30	79.30	-30.90	51.34	18.14
55	1.98	1.26	80.90	-31.10	53.62	18.13
56	2.00	1.19	83.30	-29.60	56.35	18.12
57	2.02	1.08	82.30	-30.60	58.07	18.11
58	2.04	1.13	82.10	-29.90	58.51	18.12
59	2.06	1.16	85.10	-21.60	58.74	18.15
60	2.08	1.10	88.80	-14.10	60.06	18.13
61	2.10	1.01	80.20	-13.90	61.69	18.05
62	2.12	0.97	73.40	-11.90	61.50	17.94
63	2.14	0.99	68.40	-9.50	59.63	17.85
64	2.16	1.03	63.90	-9.10	56.90	17.77
65	2.18	1.06	58.50	-8.10	52.34	17.68
66	2.20	1.19	49.70	-3.40	45.90	17.60
67	2.22	1.45	46.50	-2.30	38.66	17.57
68	2.24	1.75	45.60	1.70	31.73	17.61
69	2.26	2.22	44.30	3.20	28.08	17.68
70	2.28	2.28	49.20	-0.70	26.96	17.79
71	2.30	2.24	55.90	9.10	28.86	17.94
72	2.32	2.15	65.60	6.10	31.72	18.06
73	2.34	1.98	71.20	-1.20	34.00	18.14
74	2.36	1.98	71.20	-1.20	38.92	18.20
75	2.38	1.49	85.20	-7.40	44.82	18.24
76	2.40	1.30	90.40	-5.40	51.90	18.22
77	2.42	1.24	80.80	-5.40	52.67	18.14
78	2.44	1.32	73.10	-1.70	49.60	18.08
79	2.46	1.48	73.70	-1.80	48.85	18.04
80	2.48	1.25	73.20	-0.10	49.87	18.00
81	2.50	1.17	68.20	-0.50	52.55	17.89
82	2.52	1.11	60.30	0.30	53.16	17.76
83	2.54	1.05	54.90	3.80	51.70	17.63
84	2.56	1.13	50.00	9.40	43.93	17.60
85	2.58	1.71	46.70	14.70	22.83	17.83
86	2.60	5.06	49.10	11.30	11.95	18.09
87	2.62	7.29	55.60	6.00	5.93	18.43
88	2.64	10.81	66.80	13.60	3.24	18.58
89	2.66	12.80	56.10	-0.90	1.81	18.64
90	2.68	14.06	52.50	1.60	0.89	18.61
91	2.70	15.80	54.90	2.00	0.46	18.66
92	2.72	16.69	58.60	3.80	0.22	18.75
93	2.74	17.64	62.70	5.30	0.08	18.84
94	2.76	18.66	65.80	7.70	0.00	18.93
95	2.78	19.63	69.80	9.50	0.00	19.03
96	2.80	20.54	76.70	11.40	0.00	19.15

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	21.85	84.90	11.90	0.00	19.27
98	2.84	22.26	91.20	13.40	0.00	19.37
99	2.86	22.57	97.20	13.70	0.00	19.47
100	2.88	22.51	109.10	15.20	0.09	19.53
101	2.90	22.57	106.30	12.80	0.24	19.59
102	2.92	22.47	114.40	20.60	0.84	19.68
103	2.94	18.78	142.40	6.40	0.90	19.67
104	2.96	21.88	105.10	8.20	0.87	19.64
105	2.98	22.12	105.80	17.00	0.24	19.52
106	3.00	22.27	103.20	14.10	0.30	19.55
107	3.02	22.01	112.30	17.30	0.42	19.56
108	3.04	21.11	109.80	15.60	0.63	19.57
109	3.06	20.46	108.10	14.50	0.83	19.54
110	3.08	19.72	110.10	14.30	1.05	19.53
111	3.10	18.94	110.00	14.00	1.31	19.51
112	3.12	18.03	107.60	13.50	1.59	19.48
113	3.14	16.99	105.60	13.10	2.17	19.41
114	3.16	13.86	100.10	13.00	3.09	19.32
115	3.18	11.70	98.20	12.00	4.59	19.21
116	3.20	9.45	96.50	10.90	6.57	19.13
117	3.22	7.45	100.90	10.70	9.62	19.06
118	3.24	5.87	102.80	12.70	13.59	19.04
119	3.26	4.86	112.70	13.90	18.77	19.03
120	3.28	3.61	124.50	19.50	23.95	19.05
121	3.30	3.39	132.10	18.60	28.48	19.06
122	3.32	3.19	133.50	30.90	30.79	19.05
123	3.34	2.87	132.50	136.50	33.40	19.03
124	3.36	2.59	136.50	151.30	36.55	19.01
125	3.38	2.36	137.80	163.30	39.24	18.98
126	3.40	2.23	134.30	216.20	40.43	18.92
127	3.42	2.19	121.30	254.90	40.20	18.80
128	3.44	2.09	105.50	251.50	38.15	18.59
129	3.46	2.05	75.20	276.70	35.80	18.34
130	3.48	2.02	65.10	271.50	33.50	18.09
131	3.50	1.93	58.60	321.00	32.31	17.94
132	3.52	1.94	52.50	343.10	31.32	17.83
133	3.54	1.96	49.60	335.00	30.71	17.75
134	3.56	1.88	48.10	304.80	31.14	17.71
135	3.58	1.79	48.40	283.90	32.44	17.69
136	3.60	1.71	49.00	274.60	33.48	17.71
137	3.62	1.77	52.70	269.30	34.08	17.76
138	3.64	1.79	54.30	238.90	34.68	17.80
139	3.66	1.70	54.50	207.90	35.65	17.81
140	3.68	1.66	55.40	172.50	36.92	17.81
141	3.70	1.64	56.70	111.70	37.39	17.82
142	3.72	1.66	55.90	103.60	37.26	17.82
143	3.74	1.70	55.70	81.20	37.68	17.81
144	3.76	1.57	55.90	69.30	39.48	17.77

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	1.38	53.90	45.70	42.51	17.71
146	3.80	1.27	51.90	33.50	44.99	17.65
147	3.82	1.24	51.80	51.60	46.11	17.62
148	3.84	1.24	51.80	51.60	41.05	17.66
149	3.86	1.83	50.90	64.00	30.30	17.80
150	3.88	3.04	52.30	48.20	23.01	17.94
151	3.90	3.33	55.20	55.70	19.92	18.05
152	3.92	3.25	58.50	2.20	20.94	18.15
153	3.94	2.98	66.80	-43.90	23.50	18.17
154	3.96	2.56	65.10	-47.20	27.67	18.17
155	3.98	2.07	66.90	-57.60	32.76	18.09
156	4.00	1.70	65.50	-55.50	40.09	18.02
157	4.02	1.29	68.00	-54.10	48.73	17.98
158	4.04	1.08	75.20	-50.30	58.44	17.98
159	4.06	0.96	80.50	-29.30	64.72	17.99
160	4.08	0.92	78.30	-11.00	68.30	17.98
161	4.10	0.88	77.50	-4.20	69.80	17.92
162	4.12	0.83	72.50	-1.70	71.90	17.83
163	4.14	0.75	65.10	-0.10	76.11	17.52
164	4.16	0.49	37.40	29.30	73.55	17.28
165	4.18	0.75	41.10	30.20	68.19	17.04
166	4.20	0.77	37.50	31.40	59.71	17.08
167	4.22	0.86	35.00	37.20	53.74	17.04
168	4.24	1.02	33.10	41.30	45.81	17.02
169	4.26	1.26	30.50	50.50	40.21	17.07
170	4.28	1.36	33.60	58.50	37.46	17.15
171	4.30	1.40	37.40	70.30	37.79	17.27
172	4.32	1.37	39.90	80.10	38.70	17.34
173	4.34	1.36	41.30	94.30	39.53	17.39
174	4.36	1.37	42.40	103.40	39.63	17.42
175	4.38	1.40	43.10	125.40	39.09	17.45
176	4.40	1.45	43.00	135.50	38.22	17.47
177	4.42	1.49	43.50	147.80	37.36	17.46
178	4.44	1.49	41.70	159.00	36.73	17.43
179	4.46	1.47	39.00	169.60	36.08	17.35
180	4.48	1.46	36.00	178.90	35.09	17.25
181	4.50	1.46	32.00	199.40	34.11	17.16
182	4.52	1.46	31.00	207.90	33.37	17.09
183	4.54	1.45	30.20	218.00	33.44	17.07
184	4.56	1.41	30.40	226.20	33.84	17.05
185	4.58	1.38	30.30	233.50	34.50	17.05
186	4.60	1.36	30.40	241.00	34.94	17.04
187	4.62	1.34	30.00	257.90	35.21	17.03
188	4.64	1.33	29.90	268.30	35.23	17.02
189	4.66	1.33	29.50	280.00	34.85	17.00
190	4.68	1.37	28.90	291.70	34.11	16.99
191	4.70	1.39	28.30	303.60	33.28	16.97
192	4.72	1.41	27.80	316.80	32.66	16.95

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	1.40	26.70	333.50	32.38	16.93
194	4.76	1.40	26.70	344.50	32.23	16.91
195	4.78	1.40	26.60	347.20	32.41	16.92
196	4.80	1.39	27.50	358.80	32.91	16.94
197	4.82	1.36	28.60	361.00	33.58	16.98
198	4.84	1.36	29.20	367.90	33.99	17.02
199	4.86	1.39	30.60	375.30	33.97	17.07
200	4.88	1.44	32.50	392.30	33.68	17.13
201	4.90	1.47	33.30	395.50	33.42	17.18
202	4.92	1.48	33.40	397.70	33.20	17.18
203	4.94	1.48	32.90	393.30	33.55	17.21
204	4.96	1.47	35.70	408.10	33.97	17.24
205	4.98	1.47	36.20	418.70	34.28	17.27
206	5.00	1.48	35.90	428.60	34.32	17.28
207	5.02	1.46	36.00	435.50	34.54	17.28
208	5.04	1.44	36.50	440.30	34.87	17.27
209	5.06	1.43	35.70	442.60	34.82	17.26
210	5.08	1.45	34.80	452.50	34.33	17.23
211	5.10	1.46	34.10	460.70	33.55	17.22
212	5.12	1.50	33.50	468.60	32.42	17.21
213	5.14	1.59	33.20	475.10	31.27	17.22
214	5.16	1.63	33.30	487.00	30.40	17.23
215	5.18	1.66	33.90	498.50	29.86	17.24
216	5.20	1.69	33.50	523.60	29.48	17.25
217	5.22	1.70	33.30	526.20	29.11	17.24
218	5.24	1.70	32.90	516.10	29.20	17.23
219	5.26	1.66	33.10	509.60	29.66	17.23
220	5.28	1.63	33.80	500.70	30.59	17.24
221	5.30	1.58	34.60	491.00	31.93	17.28
222	5.32	1.53	37.40	473.50	33.64	17.32
223	5.34	1.45	38.80	474.10	35.45	17.36
224	5.36	1.40	39.60	469.00	35.31	17.36
225	5.38	1.55	37.50	457.50	35.29	17.35
226	5.40	1.46	38.20	426.40	35.31	17.32
227	5.42	1.35	36.70	436.20	37.10	17.28
228	5.44	1.29	36.10	435.10	38.43	17.23
229	5.46	1.24	35.60	440.00	39.46	17.19
230	5.48	1.19	33.70	431.30	40.08	17.13
231	5.50	1.16	32.50	434.90	40.44	17.08
232	5.52	1.15	31.50	424.90	40.62	17.03
233	5.54	1.12	30.10	397.10	41.29	16.99
234	5.56	1.08	30.60	375.90	42.47	16.96
235	5.58	1.03	30.40	323.70	44.00	16.94
236	5.60	1.00	29.60	263.50	45.96	16.89
237	5.62	0.91	28.30	207.40	48.25	16.82
238	5.64	0.85	27.20	135.80	53.40	16.73
239	5.66	0.69	27.20	-14.40	60.39	16.67
240	5.68	0.59	28.10	0.40	68.94	16.61

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.54	27.30	13.30	67.94	16.57
242	5.72	0.69	24.10	26.40	59.70	16.53
243	5.74	0.84	21.90	39.00	51.08	16.47
244	5.76	0.89	20.60	57.40	47.03	16.45
245	5.78	0.89	21.20	68.40	46.34	16.45
246	5.80	0.88	21.40	81.10	45.39	16.46
247	5.82	0.94	20.50	98.80	43.50	16.44
248	5.84	0.99	19.60	108.40	41.40	16.43
249	5.86	1.01	19.80	111.20	41.38	16.50
250	5.88	1.01	23.80	123.60	42.94	16.63
251	5.90	0.99	27.20	130.70	45.28	16.77
252	5.92	0.96	28.90	146.90	45.90	16.81
253	5.94	1.00	27.00	154.60	45.46	16.80
254	5.96	1.00	26.20	161.80	44.35	16.76
255	5.98	1.00	25.80	166.70	43.81	16.74
256	6.00	1.03	25.50	186.30	42.82	16.73
257	6.02	1.07	24.90	196.80	41.11	16.71
258	6.04	1.13	23.20	197.90	39.15	16.73
259	6.06	1.23	25.10	198.90	37.81	16.75
260	6.08	1.25	25.40	160.30	38.06	16.85
261	6.10	1.22	28.90	167.70	39.93	16.97
262	6.12	1.19	34.70	180.40	41.90	17.08
263	6.14	1.18	34.90	169.00	43.41	17.17
264	6.16	1.18	36.80	155.30	44.66	17.23
265	6.18	1.16	41.40	141.20	46.40	17.33
266	6.20	1.15	45.70	133.90	47.81	17.42
267	6.22	1.16	46.90	138.90	48.42	17.50
268	6.24	1.20	50.80	150.00	47.72	17.53
269	6.26	1.25	48.10	140.20	46.98	17.56
270	6.28	1.26	48.40	119.60	47.35	17.57
271	6.30	1.20	52.80	111.40	48.36	17.61
272	6.32	1.21	53.40	130.80	48.93	17.61
273	6.34	1.22	49.40	129.30	48.17	17.58
274	6.36	1.23	47.80	122.70	47.83	17.56
275	6.38	1.22	50.60	123.30	46.49	17.58
276	6.40	1.38	50.30	129.80	44.32	17.60
277	6.42	1.49	47.60	67.90	43.51	17.55
278	6.44	1.26	43.70	34.90	45.32	17.44
279	6.46	1.08	41.50	43.00	48.31	17.23
280	6.48	0.99	29.90	51.00	50.48	17.05
281	6.50	0.92	30.70	58.60	52.37	16.95
282	6.52	0.87	35.30	65.20	55.27	17.00
283	6.54	0.87	36.00	62.40	57.66	17.07
284	6.56	0.86	37.90	60.60	59.02	17.17
285	6.58	0.88	44.30	79.30	59.24	17.20
286	6.60	0.88	39.30	86.60	57.01	17.23
287	6.62	1.00	39.20	78.70	54.22	17.19
288	6.64	1.00	37.90	87.30	53.71	17.18

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	0.92	38.20	81.00	55.36	17.19
290	6.68	0.91	41.20	80.20	58.52	17.21
291	6.70	0.86	42.40	78.90	60.49	17.22
292	6.72	0.83	40.30	70.30	62.98	17.19
293	6.74	0.78	40.50	64.80	64.45	17.10
294	6.76	0.74	35.00	61.40	66.27	17.01
295	6.78	0.70	33.80	55.30	68.12	16.94
296	6.80	0.67	35.40	59.60	70.81	16.92
297	6.82	0.64	35.20	64.00	72.22	16.91
298	6.84	0.65	33.60	72.00	72.06	16.86
299	6.86	0.65	30.90	69.80	73.22	16.77
300	6.88	0.56	29.40	55.80	77.08	16.69
301	6.90	0.51	29.40	58.90	82.55	16.60
302	6.92	0.48	27.10	66.40	84.73	16.52
303	6.94	0.48	24.50	90.40	83.15	16.39
304	6.96	0.49	21.50	97.80	80.98	16.31
305	6.98	0.49	21.50	97.80	77.52	16.23
306	7.00	0.52	19.40	110.90	75.18	16.20
307	7.02	0.53	19.30	121.60	72.29	16.13
308	7.04	0.53	17.60	127.30	70.60	16.10
309	7.06	0.55	17.60	145.60	67.87	16.05
310	7.08	0.58	16.60	155.90	64.94	16.05
311	7.10	0.61	16.70	160.00	62.21	16.06
312	7.12	0.64	17.20	165.30	60.80	16.09
313	7.14	0.64	17.30	166.70	61.16	16.11
314	7.16	0.61	17.80	165.70	62.36	16.10
315	7.18	0.59	16.90	187.20	63.24	16.06
316	7.20	0.59	16.00	195.70	62.85	16.00
317	7.22	0.59	15.30	202.40	61.63	15.96
318	7.24	0.61	15.10	206.20	61.08	15.95
319	7.26	0.60	15.50	210.60	60.90	15.96
320	7.28	0.60	15.60	215.80	60.93	15.97
321	7.30	0.61	15.40	230.00	59.93	15.97
322	7.32	0.64	15.30	234.30	57.81	15.98
323	7.34	0.68	15.40	235.60	55.37	16.03
324	7.36	0.73	16.30	229.10	54.60	16.08
325	7.38	0.71	17.10	216.00	55.60	16.16
326	7.40	0.69	18.80	219.80	55.88	16.14
327	7.42	0.70	15.30	250.60	54.12	16.12
328	7.44	0.77	15.80	254.20	50.74	16.12
329	7.46	0.86	17.60	255.40	48.40	16.23
330	7.48	0.92	18.80	231.00	47.11	16.34
331	7.50	0.95	19.80	218.60	46.35	16.41
332	7.52	0.98	20.60	233.30	46.12	16.46
333	7.54	0.99	21.00	185.50	46.49	16.52
334	7.56	0.97	22.50	191.30	47.41	16.52
335	7.58	0.93	21.50	211.60	48.71	16.51
336	7.60	0.89	20.70	184.00	50.10	16.48

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	0.86	21.70	210.60	51.57	16.50
338	7.64	0.86	23.20	232.80	52.58	16.54
339	7.66	0.85	23.10	247.00	52.38	16.55
340	7.68	0.88	22.40	250.40	51.22	16.55
341	7.70	0.92	22.60	252.30	49.44	16.56
342	7.72	0.98	22.60	229.20	48.51	16.58
343	7.74	0.97	23.10	228.10	48.06	16.61
344	7.76	0.98	23.60	224.00	49.12	16.64
345	7.78	0.94	25.00	248.20	48.60	16.59
346	7.80	0.96	20.00	249.00	43.69	16.58
347	7.82	1.34	20.30	307.90	36.24	16.67
348	7.84	1.78	25.30	311.50	27.03	16.97
349	7.86	2.95	29.50	170.10	23.59	17.23
350	7.88	2.80	33.10	-0.20	22.38	17.37
351	7.90	2.57	33.90	-15.80	24.72	17.39
352	7.92	2.29	33.70	20.30	28.17	17.45
353	7.94	2.04	42.70	48.00	33.10	17.56
354	7.96	1.73	49.50	79.80	37.68	17.67
355	7.98	1.71	50.90	93.90	39.81	17.72
356	8.00	1.80	50.90	117.10	38.68	17.82
357	8.02	2.08	60.40	135.30	36.58	17.94
358	8.04	2.29	62.20	67.90	35.43	18.02
359	8.06	2.21	60.00	15.90	36.57	17.93
360	8.08	1.70	50.00	35.10	38.96	17.75
361	8.10	1.58	44.20	57.60	41.37	17.57
362	8.12	1.57	42.90	108.60	41.39	17.50
363	8.14	1.59	43.00	134.90	40.65	17.56
364	8.16	1.75	48.90	149.80	38.64	17.70
365	8.18	2.08	55.10	137.40	36.49	17.85
366	8.20	2.25	58.40	49.80	36.24	17.91
367	8.22	1.93	55.50	37.00	38.14	17.81
368	8.24	1.60	46.00	30.30	42.01	17.57
369	8.26	1.28	35.30	84.40	45.34	17.27
370	8.28	1.15	30.90	147.20	47.21	17.05
371	8.30	1.15	29.50	169.50	47.04	16.99
372	8.32	1.22	30.80	185.40	44.40	16.98
373	8.34	1.37	28.50	207.80	39.16	17.02
374	8.36	1.74	28.00	238.90	33.04	17.16
375	8.38	2.32	35.60	136.50	28.43	17.35
376	8.40	2.66	37.80	56.50	25.86	17.52
377	8.42	2.82	38.50	15.60	25.64	17.57
378	8.44	2.53	39.30	9.30	27.16	17.53
379	8.46	2.18	36.80	-4.70	31.25	17.51
380	8.48	1.83	41.90	4.00	35.47	17.36
381	8.50	1.48	31.10	108.90	36.84	17.23
382	8.52	1.73	27.30	211.30	29.83	17.16
383	8.54	2.88	30.10	169.50	24.17	17.31
384	8.56	3.23	36.00	5.30	21.94	17.44

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	2.83	34.00	-19.80	23.23	17.42
386	8.60	2.42	30.10	0.70	26.07	17.33
387	8.62	2.16	32.20	38.10	29.88	17.38
388	8.64	2.01	42.20	82.20	34.05	17.51
389	8.66	1.84	46.40	130.70	38.96	17.60
390	8.68	1.50	46.70	156.40	41.79	17.57
391	8.70	1.56	42.50	219.60	42.70	17.52
392	8.72	1.64	42.60	222.60	41.47	17.53
393	8.74	1.67	46.00	177.40	40.54	17.53
394	8.76	1.70	41.40	171.60	40.48	17.48
395	8.78	1.59	37.80	208.30	38.92	17.36
396	8.80	1.69	33.60	268.50	36.30	17.30
397	8.82	1.98	33.80	259.50	33.69	17.37
398	8.84	2.14	40.40	164.20	32.56	17.50
399	8.86	2.18	43.80	73.50	33.31	17.58
400	8.88	2.01	41.60	84.30	34.87	17.56
401	8.90	1.84	41.10	112.10	37.05	17.47
402	8.92	1.65	37.70	149.80	37.78	17.45
403	8.94	1.85	40.40	189.70	37.24	17.48
404	8.96	1.96	42.90	187.20	36.19	17.54
405	8.98	1.94	42.60	149.00	35.20	17.62
406	9.00	2.18	47.20	180.10	30.87	17.79
407	9.02	3.21	54.40	126.80	25.01	17.83
408	9.04	3.72	37.70	6.10	21.23	17.86
409	9.06	3.74	43.20	26.30	19.71	17.71
410	9.08	3.42	37.10	32.80	21.76	17.74
411	9.10	2.93	44.00	46.60	24.83	17.76
412	9.12	2.68	50.60	77.10	28.92	17.88
413	9.14	2.51	56.60	114.10	31.99	17.98
414	9.16	2.42	61.50	99.50	34.73	18.06
415	9.18	2.27	65.90	90.80	37.75	18.05
416	9.20	1.91	60.20	94.70	40.45	17.99
417	9.22	1.84	57.60	116.30	42.34	17.91
418	9.24	1.83	57.60	143.20	42.59	17.87
419	9.26	1.79	54.60	155.00	41.78	17.79
420	9.28	1.81	46.60	207.40	39.54	17.74
421	9.30	2.06	48.50	238.40	34.43	17.82
422	9.32	2.84	57.50	225.50	30.45	17.99
423	9.34	3.12	60.00	70.70	27.97	17.99
424	9.36	2.81	44.50	-11.00	28.25	17.92
425	9.38	2.61	49.60	11.40	29.82	17.84
426	9.40	2.51	53.40	25.90	32.74	17.95
427	9.42	2.37	62.60	65.30	37.02	18.07
428	9.44	1.98	71.80	73.10	41.72	18.14
429	9.46	1.85	72.30	73.60	45.83	18.12
430	9.48	1.75	67.00	99.40	47.39	18.04
431	9.50	1.64	61.90	124.60	47.41	17.93
432	9.52	1.65	56.10	188.40	46.34	17.83

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
433	9.54	1.70	51.40	195.80	43.96	17.76
434	9.56	1.81	49.50	211.70	38.70	17.80
435	9.58	2.48	54.40	230.70	34.36	17.87
436	9.60	2.66	54.00	124.10	31.56	17.94
437	9.62	2.62	53.20	47.90	30.76	17.96
438	9.64	2.76	54.90	43.80	30.25	17.99
439	9.66	2.90	57.30	32.00	29.60	18.05
440	9.68	2.97	59.30	11.40	29.17	18.07
441	9.70	2.96	57.10	13.60	29.34	18.07
442	9.72	2.86	57.30	2.70	30.20	18.04
443	9.74	2.66	57.20	13.80	32.14	18.04
444	9.76	2.46	60.00	20.40	33.86	18.05
445	9.78	2.49	62.00	57.10	32.21	18.09
446	9.80	3.16	60.00	29.80	30.38	18.15
447	9.82	3.11	65.00	10.80	29.23	18.15
448	9.84	2.84	59.90	9.90	31.00	18.19
449	9.86	2.77	68.40	-1.70	32.38	18.25
450	9.88	2.92	76.50	3.20	32.74	18.29
451	9.90	2.90	68.00	-18.40	34.44	18.27
452	9.92	2.30	68.30	-15.10	36.90	18.15
453	9.94	2.10	62.80	-6.00	39.48	18.09
454	9.96	2.26	62.50	19.10	38.84	18.05
455	9.98	2.33	61.60	47.10	37.96	18.06
456	10.00	2.28	62.40	29.90	38.54	18.04
457	10.02	2.11	60.30	38.40	40.28	18.01
458	10.04	1.99	61.30	55.60	41.22	18.00
459	10.06	2.09	61.30	70.90	40.81	18.02
460	10.08	2.22	62.80	79.30	38.36	18.05
461	10.10	2.48	62.00	87.10	35.53	18.10
462	10.12	2.77	63.50	74.70	32.46	18.17
463	10.14	3.12	67.30	63.70	29.69	18.24
464	10.16	3.44	65.90	30.20	28.25	18.24
465	10.18	3.26	61.70	10.40	27.41	18.23
466	10.20	3.38	63.50	9.20	26.91	18.19
467	10.22	3.50	59.40	22.40	25.91	18.19
468	10.24	3.61	58.50	-11.80	25.04	18.17
469	10.26	3.65	59.40	44.30	24.89	18.06
470	10.28	3.18	44.40	31.70	25.00	17.94
471	10.30	3.18	44.40	31.70	29.11	17.98
472	10.32	2.48	72.00	6.30	34.35	18.12
473	10.34	2.22	71.60	14.40	41.57	18.18
474	10.36	1.92	65.90	35.20	43.32	18.09
475	10.38	2.02	60.80	46.90	42.04	18.02
476	10.40	2.28	59.70	61.00	37.86	18.04
477	10.42	2.68	61.80	51.90	33.53	18.08
478	10.44	3.04	59.50	34.30	30.02	18.06
479	10.46	3.13	50.20	26.80	29.12	17.95
480	10.48	2.66	46.80	1.50	30.16	17.88

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
481	10.50	2.57	52.30	1.20	33.10	17.90
482	10.52	2.47	57.20	5.80	35.46	17.99
483	10.54	2.38	62.60	-2.90	38.53	18.06
484	10.56	2.12	65.80	-2.70	41.27	18.07
485	10.58	2.03	63.80	21.70	37.55	18.14
486	10.60	3.19	66.10	37.00	31.96	18.25
487	10.62	3.69	71.50	11.40	28.03	18.39
488	10.64	3.71	78.30	-13.50	27.55	18.38
489	10.66	3.36	63.90	-32.50	28.88	18.27
490	10.68	2.87	56.10	-24.80	31.12	18.02
491	10.70	2.35	48.50	-16.60	37.13	17.90
492	10.72	1.73	57.50	-7.10	41.46	17.88
493	10.74	2.09	59.70	21.40	42.41	17.97
494	10.76	2.37	61.40	41.60	39.52	17.99
495	10.78	2.25	56.80	15.50	39.89	17.98
496	10.80	2.00	58.20	28.10	40.50	17.91
497	10.82	2.13	52.80	56.00	39.74	17.86
498	10.84	2.29	49.90	27.00	38.88	17.80
499	10.86	2.04	50.00	3.80	40.36	17.74
500	10.88	1.79	47.70	6.70	43.30	17.69
501	10.90	1.79	47.70	6.70	48.43	17.61
502	10.92	1.29	47.00	76.40	52.51	17.49
503	10.94	1.21	38.90	105.90	57.13	17.35
504	10.96	1.24	37.40	130.40	53.29	17.28
505	10.98	1.49	37.00	156.20	47.84	17.33
506	11.00	1.76	38.90	173.00	43.12	17.37
507	11.02	1.84	36.80	92.20	42.84	17.37
508	11.04	1.55	37.40	94.10	46.31	17.28
509	11.06	1.24	34.10	147.00	51.74	17.17
510	11.08	1.17	31.50	177.60	54.27	17.05
511	11.10	1.21	30.20	207.20	49.41	17.02
512	11.12	1.58	28.50	240.30	41.39	17.17
513	11.14	2.22	36.70	162.20	34.36	17.33
514	11.16	2.58	36.20	57.00	32.19	17.46
515	11.18	2.31	37.10	29.10	31.10	17.53
516	11.20	2.62	41.00	48.60	28.70	17.60
517	11.22	3.36	40.10	104.50	26.21	17.74
518	11.24	3.42	46.80	-7.70	25.50	17.83
519	11.26	3.13	48.80	-12.30	26.33	17.87
520	11.28	3.22	45.80	-1.80	26.59	17.92
521	11.30	3.48	52.20	14.30	27.27	18.00
522	11.32	3.16	59.60	34.20	29.59	18.02
523	11.34	2.57	52.30	21.70	34.47	18.00
524	11.36	2.18	57.50	44.20	40.52	17.98
525	11.38	1.94	66.40	69.30	47.17	18.02
526	11.40	1.64	68.00	192.00	50.11	17.99
527	11.42	1.71	56.20	330.40	45.76	17.91
528	11.44	2.30	49.80	362.90	40.07	17.81

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
529	11.46	2.30	47.90	179.20	32.73	17.73
530	11.48	3.01	37.80	58.90	30.36	17.59
531	11.50	2.59	33.10	88.60	29.68	17.43
532	11.52	2.12	33.30	144.70	34.79	17.36
533	11.54	1.74	37.10	252.60	38.78	17.40
534	11.56	1.96	40.20	327.00	40.09	17.49
535	11.58	2.06	42.40	241.50	40.28	17.56
536	11.60	1.86	44.20	134.80	43.31	17.57
537	11.62	1.58	44.60	165.80	49.50	17.52
538	11.64	1.26	43.30	243.50	54.98	17.45
539	11.66	1.25	41.90	284.50	58.16	17.39
540	11.68	1.25	40.80	305.10	57.79	17.37
541	11.70	1.26	41.10	327.70	56.37	17.33
542	11.72	1.31	37.60	336.50	53.39	17.31
543	11.74	1.45	36.20	317.90	48.95	17.25
544	11.76	1.59	32.20	246.90	48.25	17.17
545	11.78	1.31	31.40	238.30	50.66	17.10
546	11.80	1.16	32.50	248.20	55.16	17.01
547	11.82	1.13	28.30	313.30	57.71	16.98
548	11.84	1.09	30.10	349.00	58.32	16.93
549	11.86	1.07	29.70	367.50	59.35	16.93
550	11.88	1.06	28.90	374.60	59.37	16.89
551	11.90	1.05	27.10	379.70	58.55	16.82
552	11.92	1.06	25.10	393.10	57.77	16.76
553	11.94	1.06	24.70	399.80	56.99	16.73
554	11.96	1.06	24.60	418.10	56.61	16.73
555	11.98	1.08	25.20	424.90	55.63	16.75
556	12.00	1.14	25.30	419.30	54.89	16.80
557	12.02	1.16	27.30	410.50	54.33	16.83
558	12.04	1.16	26.90	403.20	53.92	16.87
559	12.06	1.20	27.40	420.60	53.01	16.91
560	12.08	1.26	29.00	421.70	52.07	16.97
561	12.10	1.30	30.50	414.10	51.49	17.03
562	12.12	1.32	31.50	423.20	48.85	17.11
563	12.14	1.59	32.80	434.60	45.19	17.21
564	12.16	1.80	35.10	432.00	42.06	17.33
565	12.18	1.91	39.30	370.90	41.44	17.48
566	12.20	1.94	44.60	245.50	42.24	17.50
567	12.22	1.77	38.20	238.40	45.64	17.38
568	12.24	1.30	31.30	330.30	48.98	17.10
569	12.26	1.20	24.40	359.70	53.82	16.86
570	12.28	1.10	25.00	320.40	57.02	16.79
571	12.30	1.02	28.60	305.40	63.83	16.97
572	12.32	0.95	39.40	390.00	70.19	17.12
573	12.34	0.89	40.70	437.90	75.24	17.23
574	12.36	0.85	40.60	454.90	77.38	17.20
575	12.38	0.83	38.00	451.40	77.86	17.16
576	12.40	0.84	37.30	471.70	75.66	17.05

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
577	12.42	0.86	29.90	496.10	72.64	16.89
578	12.44	0.84	24.40	512.40	69.08	16.67
579	12.46	0.83	21.30	513.50	67.39	16.54
580	12.48	0.83	21.80	574.10	66.35	16.49
581	12.50	0.84	21.30	588.90	66.24	16.49
582	12.52	0.83	21.50	599.10	66.28	16.48
583	12.54	0.82	21.30	611.30	66.76	16.48
584	12.56	0.81	21.50	632.50	67.44	16.47
585	12.58	0.79	21.00	626.20	66.96	16.46
586	12.60	0.83	20.80	629.70	65.52	16.45
587	12.62	0.87	20.20	640.50	63.93	16.44
588	12.64	0.86	20.30	655.30	63.31	16.44
589	12.66	0.86	20.30	655.30	64.66	16.45
590	12.68	0.81	21.00	636.20	65.55	16.47
591	12.70	0.83	21.70	654.00	66.23	16.50
592	12.72	0.85	22.10	681.90	65.81	16.53
593	12.74	0.84	22.50	692.10	65.30	16.55
594	12.76	0.87	22.40	689.10	65.09	16.55
595	12.78	0.86	22.30	687.30	64.03	16.55
596	12.80	0.90	22.10	666.10	63.01	16.54
597	12.82	0.91	21.40	684.40	61.93	16.51
598	12.84	0.90	20.40	657.60	61.10	16.47
599	12.86	0.91	19.40	672.50	59.78	16.43
600	12.88	0.96	19.10	688.80	58.17	16.42
601	12.90	0.98	19.30	696.70	57.67	16.42
602	12.92	0.95	19.50	679.90	58.29	16.43
603	12.94	0.94	19.50	627.00	59.25	16.44
604	12.96	0.94	20.20	664.70	59.09	16.45
605	12.98	0.96	20.00	700.80	58.53	16.46
606	13.00	0.96	19.50	696.00	58.16	16.44
607	13.02	0.96	19.40	676.50	57.96	16.43
608	13.04	0.97	19.40	686.30	57.29	16.44
609	13.06	1.01	19.60	717.90	56.35	16.45
610	13.08	1.01	19.50	741.80	55.47	16.45
611	13.10	1.02	19.00	747.60	54.80	16.45
612	13.12	1.05	19.50	765.80	53.97	16.47
613	13.14	1.08	19.90	772.20	52.24	16.51
614	13.16	1.18	20.60	779.00	50.38	16.55
615	13.18	1.22	20.20	786.40	49.04	16.57
616	13.20	1.22	20.60	776.20	49.36	16.61
617	13.22	1.21	22.60	698.00	51.13	16.69
618	13.24	1.16	24.90	713.40	53.72	16.76
619	13.26	1.11	26.00	676.30	56.95	16.82
620	13.28	1.05	27.50	656.30	59.88	16.87
621	13.30	1.03	29.30	687.00	61.61	16.92
622	13.32	1.04	30.30	755.80	60.44	16.95
623	13.34	1.13	29.00	792.40	56.08	16.98
624	13.36	1.33	29.20	848.60	32.50	17.15

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
625	13.38	4.20	26.00	745.10	5.00	17.56
626	13.40	17.08	25.70	52.50	2.34	18.03
627	13.42	20.98	47.40	-15.60	0.39	18.40
628	13.44	21.90	48.60	-17.50	0.47	18.72
629	13.46	21.51	61.60	-17.10	0.46	18.89
630	13.48	24.15	69.60	76.90	0.77	19.11
631	13.50	23.41	85.00	29.30	0.79	19.28
632	13.52	25.02	92.10	-30.90	0.92	19.39
633	13.54	25.30	91.80	-41.40	0.73	19.37
634	13.56	24.83	78.30	-22.00	0.88	19.35
635	13.58	23.12	90.20	-41.00	1.17	19.32
636	13.60	22.23	90.40	-47.50	2.07	19.45
637	13.62	20.44	113.40	-51.20	3.18	19.60
638	13.64	19.23	140.20	-38.80	4.78	19.91
639	13.66	20.15	200.00	-46.00	5.39	20.07
640	13.68	21.11	180.70	-31.90	4.99	20.14
641	13.70	22.79	162.40	-4.00	4.05	20.06
642	13.72	23.30	153.90	-45.30	3.34	19.99
643	13.74	23.74	144.80	-50.30	3.05	19.95
644	13.76	23.94	147.00	-49.70	2.62	19.84
645	13.78	23.51	112.30	141.90	2.79	19.90
646	13.80	23.99	165.70	-42.90	2.78	19.91
647	13.82	24.31	149.60	-47.40	3.10	20.04
648	13.84	24.75	162.40	-42.70	2.97	20.04
649	13.86	24.72	160.70	-33.80	3.16	20.03
650	13.88	22.89	150.50	-10.30	3.14	19.94
651	13.90	22.50	129.30	31.70	3.22	19.76
652	13.92	20.06	107.60	118.30	3.37	19.68
653	13.94	20.15	128.30	-20.40	4.05	19.75
654	13.96	20.30	157.50	-33.30	4.60	19.92
655	13.98	20.97	168.90	-52.80	5.17	20.05
656	14.00	20.25	182.60	-40.50	5.54	20.04
657	14.02	18.43	159.10	-48.60	6.58	20.13
658	14.04	18.43	218.30	-36.70	8.83	20.33
659	14.06	16.16	302.30	-46.50	11.24	20.62
660	14.08	17.11	364.20	-42.00	12.95	20.87
661	14.10	18.95	428.60	-34.60	12.32	21.11
662	14.12	23.30	497.40	-29.90	11.64	21.30
663	14.14	24.26	536.60	-38.10	11.19	21.45
664	14.16	24.99	584.70	-40.30	11.50	21.58
665	14.18	26.94	697.90	-47.50	11.23	21.58
666	14.20	29.89	708.80	-48.70	11.28	21.58
667	14.22	28.71	748.30	-48.10	10.18	21.58
668	14.24	33.74	706.50	-52.50	9.49	21.58
669	14.26	34.99	725.90	-52.50	8.55	21.58

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	5.23	98.08	5.89	92.20	0.96	0.067	1.38	0.048	1.00	1.00	0.048	No
2	5.25	98.39	6.08	92.31	0.96	0.067	1.38	0.049	1.00	1.00	0.049	No
3	5.27	98.71	6.28	92.43	0.96	0.067	1.38	0.049	1.00	1.00	0.049	No
4	5.29	99.02	6.47	92.55	0.96	0.067	1.38	0.049	1.00	1.00	0.049	No
5	5.31	99.34	6.67	92.67	0.96	0.067	1.38	0.049	1.00	1.00	0.049	No
6	5.33	99.66	6.87	92.79	0.96	0.067	1.38	0.049	1.00	1.00	0.049	No
7	5.35	99.98	7.06	92.92	0.96	0.067	1.38	0.049	1.00	1.00	2.000	Yes
8	5.37	100.32	7.26	93.06	0.96	0.067	1.38	0.049	1.00	1.00	2.000	Yes
9	5.39	100.66	7.46	93.21	0.96	0.068	1.38	0.049	1.00	1.00	2.000	Yes
10	5.41	101.01	7.65	93.35	0.96	0.068	1.38	0.049	1.00	1.00	2.000	Yes
11	5.43	101.35	7.85	93.51	0.96	0.068	1.38	0.049	1.00	1.00	2.000	Yes
12	5.45	101.70	8.04	93.66	0.96	0.068	1.38	0.049	1.00	1.00	2.000	Yes
13	5.47	102.06	8.24	93.82	0.96	0.068	1.38	0.049	1.00	1.00	2.000	Yes
14	5.49	102.41	8.44	93.98	0.96	0.068	1.38	0.050	1.00	1.00	2.000	Yes
15	5.51	102.77	8.63	94.14	0.96	0.068	1.38	0.050	1.00	1.00	2.000	Yes
16	5.53	103.13	8.83	94.30	0.96	0.068	1.38	0.050	1.00	1.00	2.000	Yes
17	5.55	103.50	9.03	94.47	0.96	0.068	1.38	0.050	1.00	1.00	2.000	Yes
18	5.57	103.86	9.22	94.64	0.96	0.069	1.38	0.050	1.00	1.00	2.000	Yes
19	5.59	104.22	9.42	94.80	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
20	5.61	104.58	9.61	94.96	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
21	5.63	104.93	9.81	95.12	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
22	5.65	105.29	10.01	95.28	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
23	5.67	105.65	10.20	95.44	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
24	5.69	106.01	10.40	95.61	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
25	5.71	106.37	10.59	95.77	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
26	5.73	106.73	10.79	95.94	0.96	0.069	1.38	0.050	1.00	1.00	0.050	No
27	5.75	107.09	10.99	96.11	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
28	5.77	107.46	11.18	96.28	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
29	5.79	107.83	11.38	96.45	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
30	5.81	108.19	11.58	96.62	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
31	5.83	108.56	11.77	96.79	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
32	5.85	108.93	11.97	96.96	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
33	5.87	109.29	12.16	97.13	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
34	5.89	109.66	12.36	97.30	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
35	5.91	110.02	12.56	97.46	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
36	5.93	110.38	12.75	97.63	0.96	0.070	1.38	0.051	1.00	1.00	0.051	No
37	5.95	110.75	12.95	97.80	0.96	0.071	1.38	0.051	1.00	1.00	0.051	No
38	5.97	111.11	13.15	97.97	0.96	0.071	1.38	0.051	1.00	1.00	0.051	No
39	5.99	111.48	13.34	98.14	0.96	0.071	1.38	0.051	1.00	1.00	0.051	No
40	6.01	111.84	13.54	98.31	0.96	0.071	1.38	0.051	1.00	1.00	0.051	No
41	6.03	112.21	13.73	98.48	0.96	0.071	1.38	0.052	1.00	1.00	0.052	No
42	6.05	112.58	13.93	98.65	0.96	0.071	1.38	0.052	1.00	1.00	0.052	No
43	6.07	112.94	14.13	98.82	0.96	0.071	1.38	0.052	1.00	1.00	0.052	No
44	6.09	113.31	14.32	98.99	0.96	0.071	1.38	0.052	1.00	1.00	0.052	No
45	6.11	113.68	14.52	99.16	0.96	0.071	1.38	0.052	1.00	1.00	0.052	No
46	6.13	114.05	14.72	99.33	0.96	0.071	1.38	0.052	1.00	1.00	0.052	No
47	6.15	114.42	14.91	99.50	0.96	0.071	1.38	0.052	1.00	1.00	0.052	No
48	6.17	114.78	15.11	99.67	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	6.19	115.15	15.30	99.85	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No
50	6.21	115.51	15.50	100.01	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No
51	6.23	115.88	15.70	100.18	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No
52	6.25	116.25	15.89	100.35	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No
53	6.27	116.61	16.09	100.52	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No
54	6.29	116.97	16.28	100.69	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No
55	6.31	117.33	16.48	100.85	0.96	0.072	1.38	0.052	1.00	1.00	0.052	No
56	6.33	117.70	16.68	101.02	0.95	0.072	1.38	0.053	1.00	1.00	0.053	No
57	6.35	118.06	16.87	101.19	0.95	0.072	1.38	0.053	1.00	1.00	0.053	No
58	6.37	118.42	17.07	101.35	0.95	0.072	1.38	0.053	1.00	1.00	0.053	No
59	6.39	118.78	17.27	101.52	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
60	6.41	119.15	17.46	101.69	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
61	6.43	119.51	17.66	101.85	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
62	6.45	119.87	17.85	102.01	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
63	6.47	120.22	18.05	102.17	0.95	0.073	1.38	0.053	1.00	1.00	0.053	No
64	6.49	120.58	18.25	102.33	0.95	0.073	1.38	0.053	1.00	1.00	2.000	Yes
65	6.51	120.93	18.44	102.49	0.95	0.073	1.38	0.053	1.00	1.00	2.000	Yes
66	6.53	121.28	18.64	102.65	0.95	0.073	1.38	0.053	1.00	1.00	2.000	Yes
67	6.55	121.64	18.84	102.80	0.95	0.073	1.38	0.053	1.00	1.00	2.000	Yes
68	6.57	121.99	19.03	102.96	0.95	0.073	1.38	0.053	1.00	1.00	2.000	Yes
69	6.59	122.34	19.23	103.11	0.95	0.073	1.38	0.053	1.00	1.00	2.000	Yes
70	6.61	122.70	19.42	103.27	0.95	0.074	1.38	0.053	1.00	1.00	2.000	Yes
71	6.63	123.06	19.62	103.44	0.95	0.074	1.38	0.054	1.00	1.00	2.000	Yes
72	6.65	123.42	19.82	103.60	0.95	0.074	1.38	0.054	1.00	1.00	2.000	Yes
73	6.67	123.78	20.01	103.77	0.95	0.074	1.38	0.054	1.00	1.00	2.000	Yes
74	6.69	124.14	20.21	103.94	0.95	0.074	1.38	0.054	1.00	1.00	2.000	Yes
75	6.71	124.51	20.40	104.10	0.95	0.074	1.38	0.054	1.00	1.00	2.000	Yes
76	6.73	124.87	20.60	104.27	0.95	0.074	1.38	0.054	1.00	1.00	2.000	Yes
77	6.75	125.24	20.80	104.44	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
78	6.77	125.60	20.99	104.60	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
79	6.79	125.96	21.19	104.77	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
80	6.81	126.32	21.39	104.93	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
81	6.83	126.68	21.58	105.09	0.95	0.074	1.38	0.054	1.00	1.00	0.054	No
82	6.85	127.03	21.78	105.25	0.95	0.075	1.38	0.054	1.00	1.00	2.000	Yes
83	6.87	127.38	21.97	105.41	0.95	0.075	1.38	0.054	1.00	1.00	2.000	Yes
84	6.89	127.74	22.17	105.57	0.95	0.075	1.38	0.054	1.00	1.00	2.000	Yes
85	6.91	128.09	22.37	105.73	0.95	0.075	1.38	0.054	1.00	1.00	2.000	Yes
86	6.93	128.46	22.56	105.89	0.95	0.075	1.38	0.054	1.00	1.00	2.000	Yes
87	6.95	128.82	22.76	106.06	0.95	0.075	1.38	0.054	1.00	1.00	0.054	No
88	6.97	129.20	22.96	106.24	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
89	6.99	129.57	23.15	106.42	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
90	7.01	129.94	23.35	106.59	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
91	7.03	130.31	23.54	106.77	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
92	7.05	130.69	23.74	106.95	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
93	7.07	131.07	23.94	107.13	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
94	7.09	131.44	24.13	107.31	0.95	0.075	1.38	0.055	1.00	1.00	0.055	No
95	7.11	131.82	24.33	107.50	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
96	7.13	132.21	24.53	107.68	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	7.15	132.59	24.72	107.87	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
98	7.17	132.98	24.92	108.06	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
99	7.19	133.37	25.11	108.26	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
100	7.21	133.76	25.31	108.45	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
101	7.23	134.15	25.51	108.65	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
102	7.25	134.55	25.70	108.84	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
103	7.27	134.94	25.90	109.04	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
104	7.29	135.33	26.09	109.24	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
105	7.31	135.72	26.29	109.43	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
106	7.33	136.11	26.49	109.63	0.95	0.076	1.38	0.055	1.00	1.00	0.055	No
107	7.35	136.50	26.68	109.82	0.94	0.076	1.38	0.055	1.00	1.00	0.055	No
108	7.37	136.90	26.88	110.02	0.94	0.076	1.38	0.056	1.00	1.00	0.056	No
109	7.39	137.29	27.08	110.21	0.94	0.076	1.38	0.056	1.00	1.00	0.056	No
110	7.41	137.68	27.27	110.41	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
111	7.43	138.07	27.47	110.60	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
112	7.45	138.46	27.66	110.79	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
113	7.47	138.85	27.86	110.98	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
114	7.49	139.23	28.06	111.17	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
115	7.51	139.62	28.25	111.36	0.94	0.077	1.38	0.056	1.00	1.00	0.056	No
116	7.53	140.00	28.45	111.55	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
117	7.55	140.38	28.65	111.73	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
118	7.57	140.76	28.84	111.92	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
119	7.59	141.14	29.04	112.10	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
120	7.61	141.52	29.23	112.29	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
121	7.63	141.90	29.43	112.47	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
122	7.65	142.28	29.63	112.66	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
123	7.67	142.66	29.82	112.84	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
124	7.69	143.04	30.02	113.03	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
125	7.71	143.42	30.21	113.21	0.94	0.077	1.38	0.056	1.00	1.00	2.000	Yes
126	7.73	143.80	30.41	113.39	0.94	0.078	1.38	0.056	1.00	1.00	2.000	Yes
127	7.75	144.18	30.61	113.57	0.94	0.078	1.38	0.056	1.00	1.00	0.056	No
128	7.77	144.55	30.80	113.75	0.94	0.078	1.38	0.056	1.00	1.00	0.056	No
129	7.79	144.92	31.00	113.92	0.94	0.078	1.38	0.056	1.00	1.00	0.056	No
130	7.81	145.28	31.20	114.08	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
131	7.83	145.64	31.39	114.25	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
132	7.85	145.99	31.59	114.41	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
133	7.87	146.35	31.78	114.57	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
134	7.89	146.70	31.98	114.72	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
135	7.91	147.06	32.18	114.88	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
136	7.93	147.41	32.37	115.04	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
137	7.95	147.77	32.57	115.20	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
138	7.97	148.12	32.77	115.36	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
139	7.99	148.48	32.96	115.52	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
140	8.01	148.84	33.16	115.68	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
141	8.03	149.19	33.35	115.84	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
142	8.05	149.55	33.55	116.00	0.94	0.078	1.38	0.057	1.00	1.00	0.057	No
143	8.07	149.90	33.75	116.16	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
144	8.09	150.26	33.94	116.32	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	8.11	150.61	34.14	116.47	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
146	8.13	150.97	34.34	116.63	0.94	0.079	1.38	0.057	1.00	1.00	0.057	No
147	8.15	151.32	34.53	116.79	0.94	0.079	1.38	0.057	1.00	1.00	2.000	Yes
148	8.17	151.67	34.73	116.94	0.94	0.079	1.38	0.057	1.00	1.00	2.000	Yes
149	8.19	152.03	34.92	117.10	0.93	0.079	1.38	0.057	1.00	1.00	2.000	Yes
150	8.21	152.39	35.12	117.27	0.93	0.079	1.38	0.057	1.00	1.00	2.000	Yes
151	8.23	152.75	35.32	117.43	0.93	0.079	1.38	0.057	1.00	1.00	2.000	Yes
152	8.25	153.11	35.51	117.60	0.93	0.079	1.38	0.057	1.00	1.00	2.000	Yes
153	8.27	153.47	35.71	117.77	0.93	0.079	1.38	0.057	1.00	1.00	2.000	Yes
154	8.29	153.84	35.90	117.93	0.93	0.079	1.38	0.058	1.00	1.00	2.000	Yes
155	8.31	154.20	36.10	118.10	0.93	0.079	1.38	0.058	1.00	1.00	2.000	Yes
156	8.33	154.56	36.30	118.26	0.93	0.079	1.38	0.058	1.00	1.00	2.000	Yes
157	8.35	154.92	36.49	118.43	0.93	0.079	1.38	0.058	1.00	1.00	2.000	Yes
158	8.37	155.28	36.69	118.59	0.93	0.079	1.38	0.058	1.00	1.00	2.000	Yes
159	8.39	155.64	36.89	118.75	0.93	0.079	1.38	0.058	1.00	1.00	0.058	No
160	8.41	156.00	37.08	118.92	0.93	0.079	1.38	0.058	1.00	1.00	0.058	No
161	8.43	156.36	37.28	119.08	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
162	8.45	156.71	37.47	119.24	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
163	8.47	157.06	37.67	119.39	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
164	8.49	157.41	37.87	119.54	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
165	8.51	157.75	38.06	119.69	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
166	8.53	158.09	38.26	119.83	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
167	8.55	158.43	38.46	119.98	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
168	8.57	158.77	38.65	120.12	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
169	8.59	159.11	38.85	120.27	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
170	8.61	159.46	39.04	120.41	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
171	8.63	159.80	39.24	120.56	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
172	8.65	160.15	39.44	120.71	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
173	8.67	160.50	39.63	120.87	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
174	8.69	160.85	39.83	121.02	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
175	8.71	161.20	40.02	121.17	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
176	8.73	161.54	40.22	121.32	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
177	8.75	161.89	40.42	121.48	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
178	8.77	162.24	40.61	121.63	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
179	8.79	162.59	40.81	121.78	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
180	8.81	162.93	41.01	121.93	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
181	8.83	163.28	41.20	122.08	0.93	0.080	1.38	0.058	1.00	1.00	0.058	No
182	8.85	163.62	41.40	122.22	0.93	0.081	1.38	0.059	1.00	1.00	0.059	No
183	8.87	163.96	41.59	122.37	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
184	8.89	164.30	41.79	122.51	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
185	8.91	164.64	41.99	122.66	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
186	8.93	164.98	42.18	122.80	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
187	8.95	165.32	42.38	122.95	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
188	8.97	165.66	42.58	123.09	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
189	8.99	166.00	42.77	123.23	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
190	9.01	166.34	42.97	123.38	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
191	9.03	166.68	43.16	123.52	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
192	9.05	167.02	43.36	123.66	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	9.07	167.36	43.56	123.81	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
194	9.09	167.70	43.75	123.95	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
195	9.11	168.04	43.95	124.09	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
196	9.13	168.38	44.15	124.23	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
197	9.15	168.72	44.34	124.38	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
198	9.17	169.06	44.54	124.52	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
199	9.19	169.40	44.73	124.67	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
200	9.21	169.74	44.93	124.81	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
201	9.23	170.08	45.13	124.96	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
202	9.25	170.43	45.32	125.11	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
203	9.27	170.77	45.52	125.25	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
204	9.29	171.12	45.71	125.40	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
205	9.31	171.46	45.91	125.55	0.92	0.081	1.38	0.059	1.00	1.00	0.059	No
206	9.33	171.81	46.11	125.70	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
207	9.35	172.15	46.30	125.85	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
208	9.37	172.50	46.50	126.00	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
209	9.39	172.84	46.70	126.15	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
210	9.41	173.19	46.89	126.30	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
211	9.43	173.53	47.09	126.45	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
212	9.45	173.88	47.28	126.59	0.92	0.082	1.38	0.059	1.00	1.00	0.059	No
213	9.47	174.22	47.48	126.74	0.91	0.082	1.38	0.059	1.00	1.00	0.059	No
214	9.49	174.57	47.68	126.89	0.91	0.082	1.38	0.059	1.00	1.00	0.059	No
215	9.51	174.91	47.87	127.04	0.91	0.082	1.38	0.059	1.00	1.00	0.059	No
216	9.53	175.26	48.07	127.19	0.91	0.082	1.38	0.059	1.00	1.00	0.059	No
217	9.55	175.60	48.27	127.34	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
218	9.57	175.95	48.46	127.48	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
219	9.59	176.29	48.66	127.63	0.91	0.082	1.38	0.060	1.00	1.00	2.000	Yes
220	9.61	176.64	48.85	127.78	0.91	0.082	1.38	0.060	1.00	1.00	2.000	Yes
221	9.63	176.98	49.05	127.93	0.91	0.082	1.38	0.060	1.00	1.00	2.000	Yes
222	9.65	177.33	49.25	128.08	0.91	0.082	1.38	0.060	1.00	1.00	2.000	Yes
223	9.67	177.67	49.44	128.23	0.91	0.082	1.38	0.060	1.00	1.00	2.000	Yes
224	9.69	178.02	49.64	128.38	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
225	9.71	178.37	49.83	128.53	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
226	9.73	178.72	50.03	128.68	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
227	9.75	179.06	50.23	128.83	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
228	9.77	179.41	50.42	128.98	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
229	9.79	179.75	50.62	129.13	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
230	9.81	180.09	50.82	129.28	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
231	9.83	180.43	51.01	129.42	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
232	9.85	180.77	51.21	129.57	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
233	9.87	181.11	51.40	129.71	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
234	9.89	181.45	51.60	129.85	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
235	9.91	181.79	51.80	130.00	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
236	9.93	182.13	51.99	130.14	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
237	9.95	182.47	52.19	130.28	0.91	0.082	1.38	0.060	1.00	1.00	0.060	No
238	9.97	182.80	52.39	130.42	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
239	9.99	183.13	52.58	130.55	0.91	0.083	1.38	0.060	1.00	1.00	0.060	No
240	10.01	183.47	52.78	130.69	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	10.03	183.80	52.97	130.82	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
242	10.05	184.13	53.17	130.96	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
243	10.07	184.46	53.37	131.09	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
244	10.09	184.79	53.56	131.22	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
245	10.11	185.12	53.76	131.36	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
246	10.13	185.45	53.96	131.49	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
247	10.15	185.77	54.15	131.62	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
248	10.17	186.10	54.35	131.76	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
249	10.19	186.43	54.54	131.89	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
250	10.21	186.77	54.74	132.03	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
251	10.23	187.10	54.94	132.16	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
252	10.25	187.44	55.13	132.30	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
253	10.27	187.77	55.33	132.44	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
254	10.29	188.11	55.52	132.58	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
255	10.31	188.44	55.72	132.72	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
256	10.33	188.78	55.92	132.86	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
257	10.35	189.11	56.11	133.00	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
258	10.37	189.45	56.31	133.14	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
259	10.39	189.78	56.51	133.28	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
260	10.41	190.12	56.70	133.42	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
261	10.43	190.46	56.90	133.56	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
262	10.45	190.80	57.09	133.71	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
263	10.47	191.14	57.29	133.85	0.90	0.083	1.38	0.060	1.00	1.00	0.060	No
264	10.49	191.49	57.49	134.00	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
265	10.51	191.83	57.68	134.15	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
266	10.53	192.18	57.88	134.30	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
267	10.55	192.53	58.08	134.46	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
268	10.57	192.88	58.27	134.61	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
269	10.59	193.23	58.47	134.77	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
270	10.61	193.59	58.66	134.92	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
271	10.63	193.94	58.86	135.08	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
272	10.65	194.29	59.06	135.23	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
273	10.67	194.64	59.25	135.39	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
274	10.69	194.99	59.45	135.54	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
275	10.71	195.34	59.64	135.70	0.89	0.083	1.38	0.060	1.00	1.00	0.060	No
276	10.73	195.70	59.84	135.86	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
277	10.75	196.05	60.04	136.01	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
278	10.77	196.40	60.23	136.16	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
279	10.79	196.74	60.43	136.31	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
280	10.81	197.08	60.63	136.46	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
281	10.83	197.42	60.82	136.60	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
282	10.85	197.76	61.02	136.74	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
283	10.87	198.10	61.21	136.89	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
284	10.89	198.45	61.41	137.04	0.89	0.083	1.38	0.061	1.00	1.00	0.061	No
285	10.91	198.79	61.61	137.18	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
286	10.93	199.13	61.80	137.33	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
287	10.95	199.48	62.00	137.48	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
288	10.97	199.82	62.20	137.63	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	10.99	200.17	62.39	137.77	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
290	11.01	200.51	62.59	137.92	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
291	11.03	200.85	62.78	138.07	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
292	11.05	201.20	62.98	138.22	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
293	11.07	201.54	63.18	138.36	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
294	11.09	201.88	63.37	138.51	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
295	11.11	202.22	63.57	138.65	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
296	11.13	202.56	63.77	138.79	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
297	11.15	202.90	63.96	138.93	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
298	11.17	203.23	64.16	139.08	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
299	11.19	203.57	64.35	139.21	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
300	11.21	203.90	64.55	139.35	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
301	11.23	204.23	64.75	139.49	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
302	11.25	204.56	64.94	139.62	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
303	11.27	204.89	65.14	139.75	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
304	11.29	205.22	65.33	139.88	0.88	0.083	1.38	0.061	1.00	1.00	0.061	No
305	11.31	205.54	65.53	140.01	0.88	0.084	1.38	0.061	1.00	1.00	0.061	No
306	11.33	205.87	65.73	140.14	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
307	11.35	206.19	65.92	140.27	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
308	11.37	206.51	66.12	140.39	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
309	11.39	206.83	66.32	140.52	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
310	11.41	207.15	66.51	140.64	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
311	11.43	207.48	66.71	140.77	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
312	11.45	207.80	66.90	140.89	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
313	11.47	208.12	67.10	141.02	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
314	11.49	208.44	67.30	141.14	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
315	11.51	208.76	67.49	141.27	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
316	11.53	209.08	67.69	141.39	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
317	11.55	209.40	67.89	141.52	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
318	11.57	209.72	68.08	141.64	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
319	11.59	210.04	68.28	141.76	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
320	11.61	210.36	68.47	141.89	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
321	11.63	210.68	68.67	142.01	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
322	11.65	211.00	68.87	142.13	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
323	11.67	211.32	69.06	142.26	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
324	11.69	211.64	69.26	142.38	0.87	0.084	1.38	0.061	1.00	1.00	0.061	No
325	11.71	211.96	69.45	142.51	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
326	11.73	212.29	69.65	142.64	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
327	11.75	212.61	69.85	142.76	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
328	11.77	212.93	70.04	142.89	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
329	11.79	213.26	70.24	143.02	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
330	11.81	213.58	70.44	143.15	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
331	11.83	213.91	70.63	143.28	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
332	11.85	214.24	70.83	143.41	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
333	11.87	214.57	71.02	143.55	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
334	11.89	214.90	71.22	143.68	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
335	11.91	215.23	71.42	143.81	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
336	11.93	215.56	71.61	143.95	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	11.95	215.89	71.81	144.08	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
338	11.97	216.22	72.01	144.22	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
339	11.99	216.55	72.20	144.35	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
340	12.01	216.88	72.40	144.49	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
341	12.03	217.21	72.59	144.62	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
342	12.05	217.55	72.79	144.76	0.86	0.084	1.38	0.061	1.00	1.00	0.061	No
343	12.07	217.88	72.99	144.89	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
344	12.09	218.21	73.18	145.03	0.85	0.084	1.38	0.061	1.00	1.00	0.061	No
345	12.11	218.54	73.38	145.16	0.85	0.084	1.38	0.061	1.00	1.00	2.000	Yes
346	12.13	218.87	73.58	145.30	0.85	0.084	1.38	0.061	1.00	1.00	2.000	Yes
347	12.15	219.21	73.77	145.44	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
348	12.17	219.55	73.97	145.58	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
349	12.19	219.89	74.16	145.73	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
350	12.21	220.24	74.36	145.88	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
351	12.23	220.59	74.56	146.03	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
352	12.25	220.94	74.75	146.18	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
353	12.27	221.29	74.95	146.34	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
354	12.29	221.64	75.14	146.50	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
355	12.31	222.00	75.34	146.65	0.85	0.083	1.38	0.061	1.00	1.00	2.000	Yes
356	12.33	222.35	75.54	146.81	0.85	0.083	1.38	0.061	1.00	1.00	0.061	No
357	12.35	222.71	75.73	146.98	0.85	0.083	1.38	0.061	1.00	1.00	0.061	No
358	12.37	223.07	75.93	147.14	0.85	0.083	1.38	0.061	1.00	1.00	0.061	No
359	12.39	223.43	76.13	147.30	0.85	0.083	1.38	0.061	1.00	1.00	0.061	No
360	12.41	223.78	76.32	147.46	0.84	0.083	1.38	0.061	1.00	1.00	0.061	No
361	12.43	224.14	76.52	147.62	0.84	0.083	1.38	0.061	1.00	1.00	0.061	No
362	12.45	224.49	76.71	147.77	0.84	0.083	1.38	0.061	1.00	1.00	0.061	No
363	12.47	224.84	76.91	147.93	0.84	0.083	1.38	0.061	1.00	1.00	0.061	No
364	12.49	225.19	77.11	148.08	0.84	0.083	1.38	0.061	1.00	1.00	0.061	No
365	12.51	225.55	77.30	148.25	0.84	0.083	1.38	0.060	1.00	1.00	0.060	No
366	12.53	225.91	77.50	148.41	0.84	0.083	1.38	0.060	1.00	1.00	0.060	No
367	12.55	226.26	77.70	148.57	0.84	0.083	1.38	0.060	1.00	1.00	0.060	No
368	12.57	226.61	77.89	148.72	0.84	0.083	1.38	0.060	1.00	1.00	0.060	No
369	12.59	226.96	78.09	148.87	0.84	0.083	1.38	0.060	1.00	1.00	0.060	No
370	12.61	227.30	78.28	149.02	0.84	0.083	1.38	0.060	1.00	1.00	0.060	No
371	12.63	227.64	78.48	149.16	0.84	0.083	1.38	0.060	1.00	1.00	2.000	Yes
372	12.65	227.98	78.68	149.30	0.84	0.083	1.38	0.060	1.00	1.00	2.000	Yes
373	12.67	228.32	78.87	149.45	0.84	0.083	1.38	0.060	1.00	1.00	2.000	Yes
374	12.69	228.66	79.07	149.59	0.84	0.083	1.38	0.060	1.00	1.00	2.000	Yes
375	12.71	229.01	79.26	149.75	0.84	0.083	1.38	0.060	1.00	1.00	2.000	Yes
376	12.73	229.36	79.46	149.90	0.84	0.083	1.38	0.060	1.00	1.00	2.000	Yes
377	12.75	229.71	79.66	150.05	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
378	12.77	230.06	79.85	150.21	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
379	12.79	230.41	80.05	150.36	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
380	12.81	230.76	80.25	150.51	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
381	12.83	231.10	80.44	150.66	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
382	12.85	231.45	80.64	150.81	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
383	12.87	231.79	80.83	150.96	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
384	12.89	232.14	81.03	151.11	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	12.91	232.49	81.23	151.26	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
386	12.93	232.84	81.42	151.41	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
387	12.95	233.18	81.62	151.57	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
388	12.97	233.54	81.82	151.72	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
389	12.99	233.89	82.01	151.88	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
390	13.01	234.24	82.21	152.03	0.83	0.083	1.38	0.060	1.00	1.00	2.000	Yes
391	13.03	234.59	82.40	152.18	0.83	0.083	1.38	0.060	1.00	1.00	0.060	No
392	13.05	234.94	82.60	152.34	0.83	0.083	1.38	0.060	1.00	1.00	0.060	No
393	13.07	235.29	82.80	152.49	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
394	13.09	235.64	82.99	152.65	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
395	13.11	235.99	83.19	152.80	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
396	13.13	236.33	83.39	152.95	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
397	13.15	236.68	83.58	153.10	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
398	13.17	237.03	83.78	153.25	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
399	13.19	237.38	83.97	153.41	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
400	13.21	237.73	84.17	153.56	0.82	0.083	1.38	0.060	1.00	1.00	0.060	No
401	13.23	238.08	84.37	153.72	0.82	0.082	1.38	0.060	1.00	1.00	0.060	No
402	13.25	238.43	84.56	153.87	0.82	0.082	1.38	0.060	1.00	1.00	0.060	No
403	13.27	238.78	84.76	154.02	0.82	0.082	1.38	0.060	1.00	1.00	2.000	Yes
404	13.29	239.13	84.95	154.18	0.82	0.082	1.38	0.060	1.00	1.00	2.000	Yes
405	13.31	239.48	85.15	154.33	0.82	0.082	1.38	0.060	1.00	1.00	2.000	Yes
406	13.33	239.84	85.35	154.49	0.82	0.082	1.38	0.060	1.00	1.00	2.000	Yes
407	13.35	240.20	85.54	154.65	0.82	0.082	1.38	0.060	1.00	1.00	2.000	Yes
408	13.37	240.55	85.74	154.81	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
409	13.39	240.91	85.94	154.97	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
410	13.41	241.26	86.13	155.13	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
411	13.43	241.62	86.33	155.29	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
412	13.45	241.98	86.52	155.45	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
413	13.47	242.34	86.72	155.61	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
414	13.49	242.70	86.92	155.78	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
415	13.51	243.06	87.11	155.94	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
416	13.53	243.42	87.31	156.11	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
417	13.55	243.78	87.51	156.27	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
418	13.57	244.13	87.70	156.43	0.81	0.082	1.38	0.060	1.00	1.00	0.060	No
419	13.59	244.49	87.90	156.59	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
420	13.61	244.84	88.09	156.75	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
421	13.63	245.20	88.29	156.91	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
422	13.65	245.56	88.49	157.07	0.81	0.082	1.38	0.060	1.00	1.00	2.000	Yes
423	13.67	245.92	88.68	157.24	0.81	0.082	1.38	0.059	1.00	1.00	2.000	Yes
424	13.69	246.28	88.88	157.40	0.80	0.082	1.38	0.059	1.00	1.00	2.000	Yes
425	13.71	246.63	89.07	157.56	0.80	0.082	1.38	0.059	1.00	1.00	2.000	Yes
426	13.73	246.99	89.27	157.72	0.80	0.082	1.38	0.059	1.00	1.00	2.000	Yes
427	13.75	247.35	89.47	157.89	0.80	0.082	1.38	0.059	1.00	1.00	2.000	Yes
428	13.77	247.72	89.66	158.05	0.80	0.082	1.38	0.059	1.00	1.00	2.000	Yes
429	13.79	248.08	89.86	158.22	0.80	0.082	1.38	0.059	1.00	1.00	2.000	Yes
430	13.81	248.44	90.06	158.39	0.80	0.082	1.38	0.059	1.00	1.00	2.000	Yes
431	13.83	248.80	90.25	158.55	0.80	0.082	1.38	0.059	1.00	1.00	0.059	No
432	13.85	249.16	90.45	158.71	0.80	0.082	1.38	0.059	1.00	1.00	0.059	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
433	13.87	249.51	90.64	158.87	0.80	0.082	1.38	0.059	1.00	1.00	0.059	No
434	13.89	249.87	90.84	159.03	0.80	0.081	1.38	0.059	1.00	1.00	0.059	No
435	13.91	250.22	91.04	159.19	0.80	0.081	1.38	0.059	1.00	1.00	0.059	No
436	13.93	250.58	91.23	159.35	0.80	0.081	1.38	0.059	1.00	1.00	0.059	No
437	13.95	250.94	91.43	159.51	0.80	0.081	1.38	0.059	1.00	1.00	0.059	No
438	13.97	251.30	91.63	159.68	0.80	0.081	1.38	0.059	1.00	1.00	0.059	No
439	13.99	251.66	91.82	159.84	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
440	14.01	252.02	92.02	160.01	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
441	14.03	252.39	92.21	160.17	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
442	14.05	252.75	92.41	160.34	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
443	14.07	253.11	92.61	160.50	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
444	14.09	253.47	92.80	160.67	0.79	0.081	1.38	0.059	1.00	1.00	2.000	Yes
445	14.11	253.83	93.00	160.83	0.79	0.081	1.38	0.059	1.00	1.00	2.000	Yes
446	14.13	254.19	93.20	161.00	0.79	0.081	1.38	0.059	1.00	1.00	2.000	Yes
447	14.15	254.56	93.39	161.17	0.79	0.081	1.38	0.059	1.00	1.00	2.000	Yes
448	14.17	254.92	93.59	161.33	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
449	14.19	255.29	93.78	161.50	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
450	14.21	255.65	93.98	161.67	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
451	14.23	256.02	94.18	161.84	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
452	14.25	256.38	94.37	162.01	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
453	14.27	256.74	94.57	162.17	0.79	0.081	1.38	0.059	1.00	1.00	0.059	No
454	14.29	257.10	94.76	162.34	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
455	14.31	257.46	94.96	162.50	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
456	14.33	257.82	95.16	162.67	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
457	14.35	258.18	95.35	162.83	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
458	14.37	258.54	95.55	163.00	0.78	0.081	1.38	0.059	1.00	1.00	0.059	No
459	14.39	258.91	95.75	163.16	0.78	0.081	1.38	0.059	1.00	1.00	2.000	Yes
460	14.41	259.27	95.94	163.32	0.78	0.081	1.38	0.059	1.00	1.00	2.000	Yes
461	14.43	259.63	96.14	163.49	0.78	0.081	1.38	0.059	1.00	1.00	2.000	Yes
462	14.45	259.99	96.33	163.66	0.78	0.080	1.38	0.058	1.00	1.00	2.000	Yes
463	14.47	260.36	96.53	163.83	0.78	0.080	1.38	0.058	1.00	1.00	2.000	Yes
464	14.49	260.72	96.73	163.99	0.78	0.080	1.38	0.058	1.00	1.00	2.000	Yes
465	14.51	261.09	96.92	164.16	0.78	0.080	1.38	0.058	1.00	1.00	2.000	Yes
466	14.53	261.45	97.12	164.33	0.78	0.080	1.38	0.058	1.00	1.00	0.058	No
467	14.55	261.81	97.32	164.50	0.78	0.080	1.38	0.058	1.00	1.00	0.058	No
468	14.57	262.18	97.51	164.67	0.78	0.080	1.38	0.058	1.00	1.00	0.058	No
469	14.59	262.54	97.71	164.83	0.77	0.080	1.38	0.058	1.00	1.00	0.058	No
470	14.61	262.90	97.90	164.99	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
471	14.63	263.26	98.10	165.16	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
472	14.65	263.62	98.30	165.32	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
473	14.67	263.98	98.49	165.49	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
474	14.69	264.34	98.69	165.66	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
475	14.71	264.70	98.88	165.82	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
476	14.73	265.07	99.08	165.98	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
477	14.75	265.43	99.28	166.15	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
478	14.77	265.79	99.47	166.31	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
479	14.79	266.15	99.67	166.48	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
480	14.81	266.50	99.87	166.64	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
481	14.83	266.86	100.06	166.80	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
482	14.85	267.22	100.26	166.96	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
483	14.87	267.58	100.45	167.13	0.77	0.080	1.38	0.058	1.00	1.00	2.000	Yes
484	14.89	267.94	100.65	167.29	0.76	0.080	1.38	0.058	1.00	1.00	2.000	Yes
485	14.91	268.31	100.85	167.46	0.76	0.080	1.38	0.058	1.00	1.00	2.000	Yes
486	14.93	268.67	101.04	167.63	0.76	0.080	1.38	0.058	1.00	1.00	2.000	Yes
487	14.95	269.04	101.24	167.80	0.76	0.079	1.38	0.058	1.00	1.00	2.000	Yes
488	14.97	269.41	101.44	167.97	0.76	0.079	1.38	0.058	1.00	1.00	2.000	Yes
489	14.99	269.77	101.63	168.14	0.76	0.079	1.38	0.058	1.00	1.00	2.000	Yes
490	15.01	270.13	101.83	168.31	0.76	0.079	1.38	0.058	1.00	1.00	2.000	Yes
491	15.03	270.49	102.02	168.47	0.76	0.079	1.38	0.058	1.00	1.00	2.000	Yes
492	15.05	270.85	102.22	168.63	0.76	0.079	1.38	0.058	1.00	1.00	2.000	Yes
493	15.07	271.21	102.42	168.79	0.76	0.079	1.38	0.058	1.00	1.00	0.058	No
494	15.09	271.57	102.61	168.96	0.76	0.079	1.38	0.058	1.00	1.00	0.058	No
495	15.11	271.93	102.81	169.12	0.76	0.079	1.38	0.058	1.00	1.00	0.058	No
496	15.13	272.29	103.01	169.28	0.76	0.079	1.38	0.057	1.00	1.00	0.057	No
497	15.15	272.64	103.20	169.44	0.76	0.079	1.38	0.057	1.00	1.00	0.057	No
498	15.17	273.00	103.40	169.60	0.76	0.079	1.38	0.057	1.00	1.00	0.057	No
499	15.19	273.35	103.59	169.76	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
500	15.21	273.71	103.79	169.92	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
501	15.23	274.06	103.99	170.07	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
502	15.25	274.41	104.18	170.23	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
503	15.27	274.76	104.38	170.38	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
504	15.29	275.10	104.57	170.53	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
505	15.31	275.45	104.77	170.68	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
506	15.33	275.80	104.97	170.83	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
507	15.35	276.14	105.16	170.98	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
508	15.37	276.49	105.36	171.13	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
509	15.39	276.83	105.56	171.28	0.75	0.079	1.38	0.057	1.00	1.00	0.057	No
510	15.41	277.17	105.75	171.42	0.75	0.079	1.38	0.057	1.00	1.00	2.000	Yes
511	15.43	277.52	105.95	171.57	0.75	0.078	1.38	0.057	1.00	1.00	2.000	Yes
512	15.45	277.86	106.14	171.71	0.75	0.078	1.38	0.057	1.00	1.00	2.000	Yes
513	15.47	278.21	106.34	171.86	0.75	0.078	1.38	0.057	1.00	1.00	2.000	Yes
514	15.49	278.55	106.54	172.02	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
515	15.51	278.90	106.73	172.17	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
516	15.53	279.26	106.93	172.33	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
517	15.55	279.61	107.13	172.49	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
518	15.57	279.97	107.32	172.65	0.74	0.078	1.38	0.057	1.00	1.00	0.057	No
519	15.59	280.33	107.52	172.81	0.74	0.078	1.38	0.057	1.00	1.00	0.057	No
520	15.61	280.68	107.71	172.97	0.74	0.078	1.38	0.057	1.00	1.00	0.057	No
521	15.63	281.04	107.91	173.13	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
522	15.65	281.40	108.11	173.30	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
523	15.67	281.76	108.30	173.46	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
524	15.69	282.12	108.50	173.63	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
525	15.71	282.48	108.69	173.79	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
526	15.73	282.84	108.89	173.95	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
527	15.75	283.20	109.09	174.12	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes
528	15.77	283.56	109.28	174.28	0.74	0.078	1.38	0.057	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
529	15.79	283.91	109.48	174.43	0.73	0.078	1.38	0.056	1.00	1.00	2.000	Yes
530	15.81	284.27	109.68	174.59	0.73	0.078	1.38	0.056	1.00	1.00	2.000	Yes
531	15.83	284.61	109.87	174.74	0.73	0.078	1.38	0.056	1.00	1.00	2.000	Yes
532	15.85	284.96	110.07	174.89	0.73	0.078	1.38	0.056	1.00	1.00	2.000	Yes
533	15.87	285.31	110.26	175.05	0.73	0.078	1.38	0.056	1.00	1.00	2.000	Yes
534	15.89	285.66	110.46	175.20	0.73	0.077	1.38	0.056	1.00	1.00	2.000	Yes
535	15.91	286.01	110.66	175.35	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
536	15.93	286.36	110.85	175.51	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
537	15.95	286.71	111.05	175.66	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
538	15.97	287.06	111.25	175.82	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
539	15.99	287.41	111.44	175.97	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
540	16.01	287.76	111.64	176.12	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
541	16.03	288.10	111.83	176.27	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
542	16.05	288.45	112.03	176.42	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
543	16.07	288.79	112.23	176.57	0.73	0.077	1.38	0.056	1.00	1.00	0.056	No
544	16.09	289.14	112.42	176.72	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
545	16.11	289.48	112.62	176.86	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
546	16.13	289.82	112.82	177.01	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
547	16.15	290.16	113.01	177.15	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
548	16.17	290.50	113.21	177.29	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
549	16.19	290.84	113.40	177.43	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
550	16.21	291.17	113.60	177.57	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
551	16.23	291.51	113.80	177.72	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
552	16.25	291.85	113.99	177.85	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
553	16.27	292.18	114.19	177.99	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
554	16.29	292.52	114.38	178.13	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
555	16.31	292.85	114.58	178.27	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
556	16.33	293.19	114.78	178.41	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
557	16.35	293.52	114.97	178.55	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
558	16.37	293.86	115.17	178.69	0.72	0.077	1.38	0.056	1.00	1.00	0.056	No
559	16.39	294.20	115.37	178.83	0.72	0.076	1.38	0.056	1.00	1.00	0.056	No
560	16.41	294.54	115.56	178.98	0.71	0.076	1.38	0.056	1.00	1.00	0.056	No
561	16.43	294.88	115.76	179.12	0.71	0.076	1.38	0.056	1.00	1.00	0.056	No
562	16.45	295.22	115.95	179.27	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
563	16.47	295.57	116.15	179.41	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
564	16.49	295.91	116.35	179.57	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
565	16.51	296.26	116.54	179.72	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
566	16.53	296.61	116.74	179.87	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
567	16.55	296.96	116.94	180.02	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
568	16.57	297.30	117.13	180.17	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
569	16.59	297.64	117.33	180.31	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
570	16.61	297.97	117.52	180.45	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
571	16.63	298.31	117.72	180.59	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
572	16.65	298.66	117.92	180.74	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
573	16.67	299.00	118.11	180.89	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
574	16.69	299.34	118.31	181.04	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
575	16.71	299.69	118.50	181.18	0.71	0.076	1.38	0.055	1.00	1.00	0.055	No
576	16.73	300.03	118.70	181.33	0.70	0.076	1.38	0.055	1.00	1.00	0.055	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
577	16.75	300.37	118.90	181.47	0.70	0.076	1.38	0.055	1.00	1.00	0.055	No
578	16.77	300.70	119.09	181.61	0.70	0.076	1.38	0.055	1.00	1.00	0.055	No
579	16.79	301.03	119.29	181.74	0.70	0.076	1.38	0.055	1.00	1.00	0.055	No
580	16.81	301.36	119.49	181.87	0.70	0.076	1.38	0.055	1.00	1.00	0.055	No
581	16.83	301.69	119.68	182.01	0.70	0.076	1.38	0.055	1.00	1.00	0.055	No
582	16.85	302.02	119.88	182.14	0.70	0.076	1.38	0.055	1.00	1.00	0.055	No
583	16.87	302.35	120.07	182.28	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
584	16.89	302.68	120.27	182.41	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
585	16.91	303.01	120.47	182.54	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
586	16.93	303.34	120.66	182.67	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
587	16.95	303.67	120.86	182.81	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
588	16.97	303.99	121.06	182.94	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
589	16.99	304.32	121.25	183.07	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
590	17.01	304.65	121.45	183.21	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
591	17.03	304.98	121.64	183.34	0.70	0.075	1.38	0.055	1.00	1.00	0.055	No
592	17.05	305.31	121.84	183.47	0.69	0.075	1.38	0.055	1.00	1.00	0.055	No
593	17.07	305.64	122.04	183.61	0.69	0.075	1.38	0.055	1.00	1.00	0.055	No
594	17.09	305.98	122.23	183.74	0.69	0.075	1.38	0.055	1.00	1.00	0.055	No
595	17.11	306.31	122.43	183.88	0.69	0.075	1.38	0.055	1.00	1.00	0.055	No
596	17.13	306.64	122.63	184.01	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
597	17.15	306.97	122.82	184.15	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
598	17.17	307.30	123.02	184.28	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
599	17.19	307.63	123.21	184.41	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
600	17.21	307.95	123.41	184.54	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
601	17.23	308.28	123.61	184.68	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
602	17.25	308.61	123.80	184.81	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
603	17.27	308.94	124.00	184.94	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
604	17.29	309.27	124.19	185.07	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
605	17.31	309.60	124.39	185.21	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
606	17.33	309.93	124.59	185.34	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
607	17.35	310.26	124.78	185.47	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
608	17.37	310.58	124.98	185.60	0.69	0.075	1.38	0.054	1.00	1.00	0.054	No
609	17.39	310.91	125.18	185.74	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
610	17.41	311.24	125.37	185.87	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
611	17.43	311.57	125.57	186.00	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
612	17.45	311.90	125.76	186.14	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
613	17.47	312.23	125.96	186.27	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
614	17.49	312.56	126.16	186.41	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
615	17.51	312.89	126.35	186.54	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
616	17.53	313.23	126.55	186.68	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
617	17.55	313.56	126.75	186.81	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
618	17.57	313.89	126.94	186.95	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
619	17.59	314.23	127.14	187.09	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
620	17.61	314.57	127.33	187.23	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
621	17.63	314.91	127.53	187.38	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
622	17.65	315.25	127.73	187.52	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
623	17.67	315.58	127.92	187.66	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
624	17.69	315.93	128.12	187.81	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
625	17.71	316.28	128.31	187.96	0.68	0.074	1.38	0.054	1.00	1.00	0.054	No
626	17.73	316.64	128.51	188.13	0.67	0.074	1.38	0.054	1.00	1.00	0.054	No
627	17.75	317.01	128.71	188.30	0.67	0.074	1.38	0.054	1.00	1.00	0.054	No
628	17.77	317.38	128.90	188.48	0.67	0.074	1.38	0.054	1.00	1.00	0.054	No
629	17.79	317.76	129.10	188.66	0.67	0.074	1.38	0.054	1.00	1.00	0.054	No
630	17.81	318.14	129.30	188.85	0.67	0.074	1.38	0.054	1.00	1.00	0.054	No
631	17.83	318.53	129.49	189.04	0.67	0.074	1.38	0.053	1.00	1.00	0.053	No
632	17.85	318.92	129.69	189.23	0.67	0.074	1.38	0.053	1.00	1.00	0.053	No
633	17.87	319.30	129.88	189.42	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
634	17.89	319.69	130.08	189.61	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
635	17.91	320.08	130.28	189.80	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
636	17.93	320.47	130.47	189.99	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
637	17.95	320.86	130.67	190.19	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
638	17.97	321.26	130.87	190.39	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
639	17.99	321.66	131.06	190.60	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
640	18.01	322.06	131.26	190.80	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
641	18.03	322.46	131.45	191.01	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
642	18.05	322.86	131.65	191.21	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
643	18.07	323.26	131.85	191.41	0.67	0.073	1.38	0.053	1.00	1.00	0.053	No
644	18.09	323.66	132.04	191.61	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
645	18.11	324.05	132.24	191.82	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
646	18.13	324.45	132.44	192.02	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
647	18.15	324.85	132.63	192.22	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
648	18.17	325.25	132.83	192.43	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
649	18.19	325.65	133.02	192.63	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
650	18.21	326.05	133.22	192.83	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
651	18.23	326.45	133.42	193.03	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
652	18.25	326.84	133.61	193.23	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
653	18.27	327.24	133.81	193.43	0.66	0.073	1.38	0.053	1.00	1.00	0.053	No
654	18.29	327.64	134.00	193.63	0.66	0.072	1.38	0.053	1.00	1.00	0.053	No
655	18.31	328.04	134.20	193.84	0.66	0.072	1.38	0.053	1.00	1.00	0.053	No
656	18.33	328.44	134.40	194.04	0.66	0.072	1.38	0.053	1.00	1.00	0.053	No
657	18.35	328.84	134.59	194.25	0.66	0.072	1.38	0.053	1.00	1.00	0.053	No
658	18.37	329.25	134.79	194.46	0.66	0.072	1.38	0.053	1.00	1.00	0.053	No
659	18.39	329.66	134.99	194.67	0.66	0.072	1.38	0.053	1.00	1.00	0.053	No
660	18.41	330.08	135.18	194.89	0.66	0.072	1.38	0.052	1.00	1.00	0.052	No
661	18.43	330.50	135.38	195.12	0.66	0.072	1.38	0.052	1.00	1.00	0.052	No
662	18.45	330.92	135.57	195.35	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No
663	18.47	331.35	135.77	195.58	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No
664	18.49	331.79	135.97	195.82	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No
665	18.51	332.22	136.16	196.05	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No
666	18.53	332.65	136.36	196.29	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No
667	18.55	333.08	136.56	196.52	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No
668	18.57	333.51	136.75	196.76	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No
669	18.59	333.94	136.95	197.00	0.65	0.072	1.38	0.052	1.00	1.00	0.052	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	5.23	0.20	3.52	5.98	1.00	3.73	22.06	82.29	0.178	No	Yes	2.00
2	5.25	0.25	3.47	6.42	1.00	4.57	20.15	92.03	0.218	No	Yes	2.00
3	5.27	0.27	3.43	6.43	1.00	5.00	19.10	95.55	0.239	No	Yes	2.00
4	5.29	0.30	3.39	6.21	1.00	5.59	17.61	98.38	0.267	No	Yes	2.00
5	5.31	0.29	3.37	5.63	1.00	5.40	17.21	92.99	0.258	No	Yes	2.00
6	5.33	0.52	3.00	3.08	1.00	10.04	8.81	88.51	0.479	No	Yes	2.00
7	5.35	1.05	2.62	1.83	0.85	20.47	6.12	125.21	4.000	Yes	No	2.00
8	5.37	1.69	2.38	1.37	0.76	33.12	2.25	74.64	4.000	Yes	No	2.00
9	5.39	2.23	2.25	1.22	0.71	43.77	1.75	76.46	4.000	Yes	No	2.00
10	5.41	2.56	2.18	1.14	0.69	50.17	1.57	78.80	4.000	Yes	No	2.00
11	5.43	2.75	2.16	1.17	0.68	53.97	1.53	82.54	4.000	Yes	No	2.00
12	5.45	2.78	2.19	1.33	0.69	54.56	1.59	87.02	4.000	Yes	No	2.00
13	5.47	2.62	2.28	1.69	0.72	51.27	1.85	94.69	4.000	Yes	No	2.00
14	5.49	2.42	2.37	2.11	0.76	47.34	2.21	104.73	4.000	Yes	No	2.00
15	5.51	2.27	2.44	2.51	0.78	44.41	2.59	114.91	4.000	Yes	No	2.00
16	5.53	2.18	2.48	2.80	0.80	42.75	2.86	122.35	4.000	Yes	No	2.00
17	5.55	2.10	2.53	3.11	0.82	41.13	3.32	136.53	4.000	Yes	No	2.00
18	5.57	1.98	2.57	3.36	0.83	38.75	4.36	168.99	4.000	Yes	No	2.00
19	5.59	1.90	2.59	3.42	0.84	37.21	4.92	183.12	0.651	No	No	2.00
20	5.61	1.88	2.57	3.24	0.84	36.64	4.60	168.42	0.524	No	No	2.00
21	5.63	1.86	2.57	3.11	0.83	36.33	4.31	156.60	0.437	No	No	2.00
22	5.65	1.88	2.55	2.94	0.83	36.74	3.80	139.61	0.333	No	No	2.00
23	5.67	1.94	2.52	2.81	0.82	37.94	3.24	123.06	0.253	No	No	2.00
24	5.69	2.05	2.50	2.79	0.81	40.12	2.83	113.44	0.216	No	No	2.00
25	5.71	2.13	2.50	2.93	0.81	41.53	2.89	120.17	0.241	No	No	2.00
26	5.73	2.15	2.53	3.21	0.82	41.92	3.40	142.58	0.350	No	No	2.00
27	5.75	2.05	2.59	3.71	0.84	40.01	4.96	198.55	0.808	No	No	2.00
28	5.77	2.03	2.62	4.05	0.85	39.63	6.00	237.85	3.600	No	No	2.00
29	5.79	2.02	2.64	4.30	0.86	39.39	6.81	268.11	3.600	No	No	2.00
30	5.81	2.04	2.63	4.29	0.86	39.86	6.63	264.31	3.600	No	No	2.00
31	5.83	2.00	2.64	4.37	0.86	39.01	7.18	279.99	3.600	No	No	2.00
32	5.85	1.97	2.64	4.25	0.86	38.50	6.98	268.57	3.600	No	No	2.00
33	5.87	1.93	2.64	4.16	0.86	37.64	7.01	263.73	3.600	No	No	2.00
34	5.89	1.86	2.65	4.06	0.86	36.17	7.22	261.15	3.600	No	No	2.00
35	5.91	1.77	2.67	4.23	0.87	34.40	8.62	296.42	3.600	No	No	2.00
36	5.93	1.77	2.67	4.22	0.87	34.44	8.58	295.38	3.600	No	No	2.00
37	5.95	1.85	2.65	4.16	0.87	35.93	7.67	275.61	3.600	No	No	2.00
38	5.97	1.99	2.61	3.93	0.85	38.77	5.91	228.93	3.600	No	No	2.00
39	5.99	2.10	2.58	3.76	0.84	40.98	4.85	198.61	0.809	No	No	2.00
40	6.01	2.18	2.56	3.64	0.83	42.56	4.22	179.41	0.617	No	No	2.00
41	6.03	2.23	2.54	3.51	0.83	43.47	3.75	162.80	0.481	No	No	2.00
42	6.05	2.33	2.52	3.45	0.82	45.42	3.31	150.19	0.395	No	No	2.00
43	6.07	2.35	2.52	3.46	0.82	45.82	3.28	150.23	0.395	No	No	2.00
44	6.09	2.29	2.55	3.66	0.83	44.64	3.86	172.20	0.555	No	No	2.00
45	6.11	2.14	2.60	3.98	0.85	41.57	5.26	218.83	4.000	No	No	2.00
46	6.13	2.01	2.64	4.32	0.86	39.08	6.99	273.14	3.600	No	No	2.00
47	6.15	1.90	2.68	4.69	0.88	36.89	9.17	338.25	3.600	No	No	2.00
48	6.17	1.80	2.71	4.92	0.89	34.97	4.85	169.77	1.668	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	6.19	1.70	2.75	5.16	0.90	33.02	5.21	172.15	1.575	No	Yes	2.00
50	6.21	1.64	2.77	5.35	0.91	31.67	5.49	173.99	1.511	No	Yes	2.00
51	6.23	1.57	2.79	5.55	0.92	30.42	5.78	175.74	1.451	No	Yes	2.00
52	6.25	1.50	2.82	5.75	0.93	29.04	6.09	176.97	1.385	No	Yes	2.00
53	6.27	1.40	2.85	5.99	0.95	27.04	6.55	177.11	1.290	No	Yes	2.00
54	6.29	1.31	2.89	6.30	0.96	25.30	7.05	178.41	1.207	No	Yes	2.00
55	6.31	1.24	2.93	6.70	0.97	23.92	7.59	181.49	1.141	No	Yes	2.00
56	6.33	1.17	2.97	7.22	0.99	22.46	8.25	185.35	1.072	No	Yes	2.00
57	6.35	1.13	2.99	7.55	1.00	21.59	8.68	187.36	1.030	No	Yes	2.00
58	6.37	1.12	3.00	7.66	1.00	21.43	8.79	188.42	1.022	No	Yes	2.00
59	6.39	1.13	3.00	7.80	1.00	21.59	8.85	191.04	1.030	No	Yes	2.00
60	6.41	1.09	3.02	8.02	1.00	20.84	9.19	191.42	0.994	No	Yes	2.00
61	6.43	1.03	3.05	8.14	1.00	19.59	9.61	188.22	0.935	No	Yes	2.00
62	6.45	0.99	3.04	7.75	1.00	18.85	9.56	180.11	0.899	No	Yes	2.00
63	6.47	1.00	3.02	7.13	1.00	18.98	9.07	172.23	0.905	No	Yes	2.00
64	6.49	1.03	2.98	6.42	0.99	19.55	8.39	164.00	4.000	Yes	Yes	2.00
65	6.51	1.09	2.91	5.42	0.97	20.89	7.28	152.16	4.000	Yes	Yes	2.00
66	6.53	1.24	2.80	4.30	0.93	23.65	5.83	137.92	4.000	Yes	Yes	2.00
67	6.55	1.47	2.67	3.31	0.87	28.20	8.22	231.71	4.000	Yes	No	2.00
68	6.57	1.81	2.52	2.57	0.82	34.96	3.27	114.33	4.000	Yes	No	2.00
69	6.59	2.08	2.44	2.27	0.79	40.40	2.60	104.91	4.000	Yes	No	2.00
70	6.61	2.25	2.41	2.25	0.78	43.61	2.45	106.65	4.000	Yes	No	2.00
71	6.63	2.22	2.46	2.60	0.80	43.12	2.71	116.75	4.000	Yes	No	2.00
72	6.65	2.12	2.52	3.08	0.82	41.12	3.27	134.32	4.000	Yes	No	2.00
73	6.67	2.04	2.57	3.47	0.84	39.40	4.51	177.53	4.000	Yes	No	2.00
74	6.69	1.81	2.67	4.27	0.88	35.03	8.49	297.39	4.000	Yes	No	2.00
75	6.71	1.59	2.78	5.32	0.92	30.54	5.60	171.11	4.000	Yes	Yes	2.00
76	6.73	1.34	2.90	6.58	0.96	25.65	7.18	184.23	4.000	Yes	Yes	2.00
77	6.75	1.28	2.91	6.55	0.97	24.54	7.36	180.75	1.171	No	Yes	2.00
78	6.77	1.34	2.86	5.83	0.95	25.71	6.65	170.98	1.226	No	Yes	2.00
79	6.79	1.35	2.85	5.61	0.95	25.80	6.48	167.23	1.230	No	Yes	2.00
80	6.81	1.30	2.87	5.70	0.95	24.82	6.71	166.65	1.184	No	Yes	2.00
81	6.83	1.18	2.91	5.92	0.97	22.42	7.33	164.43	1.069	No	Yes	2.00
82	6.85	1.11	2.92	5.72	0.97	21.08	7.48	157.65	4.000	Yes	Yes	2.00
83	6.87	1.10	2.90	5.22	0.96	20.83	7.14	148.63	4.000	Yes	Yes	2.00
84	6.89	1.30	2.76	4.02	0.91	24.79	5.41	134.20	4.000	Yes	Yes	2.00
85	6.91	2.64	2.31	1.87	0.74	51.20	1.96	100.16	4.000	Yes	No	2.00
86	6.93	4.69	1.96	1.09	0.61	91.71	1.28	117.25	4.000	Yes	No	2.00
87	6.95	7.72	1.69	0.74	0.50	151.54	1.00	151.54	0.404	No	No	2.00
88	6.97	10.30	1.53	0.58	0.44	199.97	1.00	199.97	0.824	No	No	2.00
89	6.99	12.56	1.42	0.47	0.40	228.50	1.00	228.50	4.000	No	No	2.00
90	7.01	14.22	1.35	0.38	0.37	246.57	1.00	246.57	4.000	No	No	2.00
91	7.03	15.52	1.31	0.36	0.36	262.16	1.00	262.16	4.000	No	No	2.00
92	7.05	16.71	1.28	0.35	0.35	277.73	1.00	277.73	4.000	No	No	2.00
93	7.07	17.67	1.27	0.35	0.34	290.44	1.00	290.44	4.000	No	No	2.00
94	7.09	18.65	1.25	0.36	0.34	303.37	1.00	303.37	4.000	No	No	2.00
95	7.11	19.61	1.24	0.36	0.33	316.56	1.00	316.56	4.000	No	No	2.00
96	7.13	20.67	1.24	0.37	0.33	331.69	1.00	331.69	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	7.15	21.55	1.24	0.39	0.33	344.99	1.00	344.99	4.000	No	No	2.00
98	7.17	22.23	1.24	0.41	0.33	355.69	1.00	355.69	4.000	No	No	2.00
99	7.19	22.45	1.26	0.44	0.34	361.69	1.00	361.69	4.000	No	No	2.00
100	7.21	22.55	1.27	0.46	0.34	364.62	1.00	364.62	4.000	No	No	2.00
101	7.23	22.52	1.28	0.49	0.35	366.23	1.00	366.23	4.000	No	No	2.00
102	7.25	21.28	1.34	0.57	0.37	355.82	1.00	355.82	4.000	No	No	2.00
103	7.27	21.05	1.35	0.57	0.37	352.02	1.00	352.02	4.000	No	No	2.00
104	7.29	20.93	1.34	0.56	0.37	348.53	1.00	348.53	4.000	No	No	2.00
105	7.31	22.09	1.28	0.47	0.35	355.48	1.00	355.48	4.000	No	No	2.00
106	7.33	22.14	1.29	0.48	0.35	356.31	1.00	356.31	4.000	No	No	2.00
107	7.35	21.80	1.30	0.50	0.36	352.20	1.00	352.20	4.000	No	No	2.00
108	7.37	21.20	1.32	0.52	0.37	345.04	1.00	345.04	4.000	No	No	2.00
109	7.39	20.43	1.34	0.54	0.37	334.90	1.00	334.90	4.000	No	No	2.00
110	7.41	19.71	1.36	0.56	0.38	325.50	1.00	325.50	4.000	No	No	2.00
111	7.43	18.90	1.38	0.58	0.39	314.92	1.00	314.92	4.000	No	No	2.00
112	7.45	17.99	1.41	0.60	0.40	302.50	1.00	302.50	4.000	No	No	2.00
113	7.47	16.29	1.45	0.64	0.42	279.56	1.00	279.56	4.000	No	No	2.00
114	7.49	14.18	1.52	0.72	0.44	250.93	1.00	250.93	4.000	No	No	2.00
115	7.51	11.67	1.61	0.85	0.48	216.37	1.00	216.37	4.000	No	No	2.00
116	7.53	9.54	1.72	1.04	0.52	185.80	1.04	192.71	4.000	Yes	No	2.00
117	7.55	7.59	1.87	1.33	0.58	148.75	1.21	180.62	4.000	Yes	No	2.00
118	7.57	6.06	2.02	1.76	0.63	118.54	1.33	157.41	4.000	Yes	No	2.00
119	7.59	4.78	2.19	2.40	0.70	93.26	1.60	149.01	4.000	Yes	No	2.00
120	7.61	3.95	2.34	3.16	0.75	76.92	2.08	159.79	4.000	Yes	No	2.00
121	7.63	3.40	2.45	3.89	0.80	65.97	2.65	175.07	4.000	Yes	No	2.00
122	7.65	3.16	2.50	4.28	0.82	61.19	2.85	174.25	4.000	Yes	No	2.00
123	7.67	2.90	2.56	4.72	0.84	56.09	4.15	232.84	4.000	Yes	No	2.00
124	7.69	2.63	2.62	5.27	0.86	50.74	6.31	320.40	4.000	Yes	No	2.00
125	7.71	2.42	2.68	5.76	0.88	46.66	8.82	411.52	4.000	Yes	No	2.00
126	7.73	2.29	2.70	5.87	0.89	44.10	10.15	447.50	4.000	Yes	No	2.00
127	7.75	2.21	2.70	5.59	0.89	42.47	9.88	419.84	3.600	No	No	2.00
128	7.77	2.15	2.66	4.81	0.88	41.33	7.72	319.24	3.600	No	No	2.00
129	7.79	2.10	2.61	4.02	0.86	40.24	5.73	230.71	3.600	No	No	2.00
130	7.81	2.05	2.56	3.34	0.84	39.22	4.21	165.00	0.498	No	No	2.00
131	7.83	2.02	2.54	3.00	0.83	38.59	3.56	137.25	0.320	No	No	2.00
132	7.85	2.00	2.51	2.76	0.82	38.27	3.08	117.95	0.233	No	No	2.00
133	7.87	1.98	2.50	2.61	0.82	37.92	2.81	106.72	0.193	No	No	2.00
134	7.89	1.93	2.51	2.61	0.82	36.85	3.00	110.61	0.206	No	No	2.00
135	7.91	1.84	2.54	2.73	0.83	35.11	3.63	127.32	0.272	No	No	2.00
136	7.93	1.80	2.56	2.87	0.84	34.36	4.19	144.10	0.358	No	No	2.00
137	7.95	1.80	2.57	3.00	0.85	34.26	4.56	156.16	0.434	No	No	2.00
138	7.97	1.79	2.59	3.11	0.85	34.12	4.94	168.61	0.526	No	No	2.00
139	7.99	1.75	2.61	3.25	0.86	33.29	5.62	187.11	0.620	No	No	2.00
140	8.01	1.69	2.63	3.41	0.87	32.14	6.62	212.86	3.600	No	No	2.00
141	8.03	1.68	2.64	3.48	0.87	31.79	7.02	223.28	3.600	No	No	2.00
142	8.05	1.68	2.64	3.47	0.87	31.94	6.92	220.92	3.600	No	No	2.00
143	8.07	1.66	2.65	3.50	0.87	31.45	7.28	229.08	3.600	No	No	2.00
144	8.09	1.56	2.68	3.69	0.89	29.54	9.07	267.93	3.600	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	8.11	1.42	2.74	3.99	0.91	26.64	5.12	136.39	1.271	No	Yes	2.00
146	8.13	1.31	2.78	4.24	0.93	24.48	5.64	138.02	1.168	No	Yes	2.00
147	8.15	1.26	2.80	4.34	0.93	23.56	5.88	138.52	4.000	Yes	Yes	2.00
148	8.17	1.45	2.71	3.73	0.90	27.25	4.82	131.46	4.000	Yes	Yes	2.00
149	8.19	2.05	2.49	2.61	0.82	39.06	2.92	114.06	4.000	Yes	No	2.00
150	8.21	2.74	2.31	1.97	0.75	52.78	1.98	104.25	4.000	Yes	No	2.00
151	8.23	3.21	2.23	1.76	0.71	62.07	1.69	104.64	4.000	Yes	No	2.00
152	8.25	3.19	2.26	1.93	0.73	61.56	1.77	109.15	4.000	Yes	No	2.00
153	8.27	2.92	2.33	2.22	0.75	56.35	2.03	114.25	4.000	Yes	No	2.00
154	8.29	2.53	2.43	2.70	0.79	48.52	2.54	123.31	4.000	Yes	No	2.00
155	8.31	2.10	2.55	3.24	0.84	40.11	3.79	152.10	4.000	Yes	No	2.00
156	8.33	1.68	2.69	4.15	0.89	31.76	9.76	309.82	4.000	Yes	No	2.00
157	8.35	1.35	2.85	5.44	0.95	25.23	6.45	162.84	4.000	Yes	Yes	2.00
158	8.37	1.10	3.00	7.23	1.00	20.35	8.77	178.48	4.000	Yes	Yes	2.00
159	8.39	0.98	3.09	8.57	1.00	17.96	10.41	186.96	0.857	No	Yes	2.00
160	8.41	0.92	3.14	9.33	1.00	16.66	11.39	189.85	0.795	No	Yes	2.00
161	8.43	0.88	3.16	9.47	1.00	15.86	11.81	187.37	0.757	No	Yes	2.00
162	8.45	0.82	3.19	9.61	1.00	14.73	12.41	182.86	0.703	No	Yes	2.00
163	8.47	0.69	3.24	9.43	1.00	12.22	13.66	166.83	0.583	No	Yes	2.00
164	8.49	0.67	3.21	8.06	1.00	11.73	12.89	151.18	0.559	No	Yes	2.00
165	8.51	0.68	3.14	6.41	1.00	11.91	11.36	135.27	0.568	No	Yes	2.00
166	8.53	0.80	3.02	5.22	1.00	14.32	9.09	130.26	0.683	No	Yes	2.00
167	8.55	0.89	2.93	4.33	0.98	16.06	7.62	122.38	0.766	No	Yes	2.00
168	8.57	1.05	2.80	3.36	0.93	19.30	5.81	112.19	0.921	No	Yes	2.00
169	8.59	1.22	2.70	2.82	0.89	22.64	9.90	224.15	3.600	No	No	2.00
170	8.61	1.35	2.64	2.65	0.87	25.18	7.09	178.56	0.549	No	No	2.00
171	8.63	1.39	2.65	2.82	0.88	25.92	7.38	191.41	0.659	No	No	2.00
172	8.65	1.39	2.67	3.01	0.88	25.95	8.26	214.40	3.600	No	No	2.00
173	8.67	1.38	2.68	3.16	0.89	25.75	9.13	235.26	3.600	No	No	2.00
174	8.69	1.39	2.68	3.21	0.89	25.98	9.24	239.98	3.600	No	No	2.00
175	8.71	1.42	2.67	3.18	0.89	26.58	8.67	230.31	3.600	No	No	2.00
176	8.73	1.47	2.66	3.11	0.88	27.43	7.79	213.69	3.600	No	No	2.00
177	8.75	1.50	2.64	3.01	0.87	28.06	7.00	196.39	0.706	No	No	2.00
178	8.77	1.51	2.63	2.89	0.87	28.23	6.46	182.48	0.581	No	No	2.00
179	8.79	1.50	2.61	2.74	0.86	28.04	5.94	166.66	0.459	No	No	2.00
180	8.81	1.49	2.59	2.53	0.86	27.88	5.22	145.50	0.366	No	No	2.00
181	8.83	1.49	2.57	2.34	0.85	27.85	4.58	127.44	0.272	No	No	2.00
182	8.85	1.49	2.56	2.20	0.84	27.83	4.13	114.97	0.221	No	No	2.00
183	8.87	1.48	2.56	2.19	0.84	27.55	4.17	114.91	0.221	No	No	2.00
184	8.89	1.45	2.57	2.21	0.85	27.08	4.41	119.42	0.238	No	No	2.00
185	8.91	1.42	2.58	2.26	0.85	26.50	4.82	127.82	0.274	No	No	2.00
186	8.93	1.40	2.59	2.29	0.86	26.05	5.12	133.35	0.301	No	No	2.00
187	8.95	1.39	2.60	2.31	0.86	25.77	5.31	136.72	0.318	No	No	2.00
188	8.97	1.38	2.60	2.29	0.86	25.64	5.32	136.38	0.316	No	No	2.00
189	8.99	1.39	2.59	2.25	0.86	25.84	5.05	130.57	0.287	No	No	2.00
190	9.01	1.41	2.57	2.17	0.85	26.28	4.58	120.27	0.242	No	No	2.00
191	9.03	1.44	2.56	2.08	0.84	26.83	4.08	109.41	0.202	No	No	2.00
192	9.05	1.46	2.54	2.01	0.84	27.11	3.74	101.34	0.177	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	9.07	1.46	2.54	1.97	0.84	27.16	3.59	97.53	0.166	No	No	2.00
194	9.09	1.46	2.53	1.94	0.83	27.13	3.52	95.39	0.161	No	No	2.00
195	9.11	1.45	2.54	1.96	0.84	27.06	3.61	97.72	0.167	No	No	2.00
196	9.13	1.44	2.55	2.03	0.84	26.85	3.88	104.10	0.185	No	No	2.00
197	9.15	1.43	2.56	2.11	0.85	26.59	4.25	113.04	0.214	No	No	2.00
198	9.17	1.43	2.57	2.19	0.85	26.62	4.50	119.78	0.240	No	No	2.00
199	9.19	1.46	2.57	2.24	0.85	27.14	4.49	121.76	0.248	No	No	2.00
200	9.21	1.50	2.57	2.27	0.85	27.94	4.31	120.50	0.243	No	No	2.00
201	9.23	1.53	2.56	2.29	0.85	28.55	4.16	118.75	0.236	No	No	2.00
202	9.25	1.55	2.55	2.27	0.84	28.82	4.04	116.29	0.226	No	No	2.00
203	9.27	1.54	2.56	2.33	0.85	28.77	4.23	121.82	0.248	No	No	2.00
204	9.29	1.54	2.57	2.40	0.85	28.69	4.49	128.84	0.279	No	No	2.00
205	9.31	1.54	2.58	2.47	0.85	28.75	4.68	134.56	0.307	No	No	2.00
206	9.33	1.54	2.58	2.47	0.85	28.75	4.71	135.29	0.310	No	No	2.00
207	9.35	1.54	2.58	2.50	0.85	28.57	4.85	138.54	0.327	No	No	2.00
208	9.37	1.52	2.59	2.52	0.86	28.22	5.07	143.14	0.353	No	No	2.00
209	9.39	1.51	2.59	2.50	0.86	28.13	5.04	141.70	0.345	No	No	2.00
210	9.41	1.52	2.58	2.43	0.85	28.32	4.71	133.52	0.301	No	No	2.00
211	9.43	1.55	2.56	2.34	0.85	28.81	4.24	122.13	0.249	No	No	2.00
212	9.45	1.60	2.54	2.23	0.84	29.78	3.61	107.57	0.196	No	No	2.00
213	9.47	1.66	2.51	2.13	0.83	30.92	3.06	94.58	0.159	No	No	2.00
214	9.49	1.71	2.49	2.07	0.82	31.98	2.93	93.86	0.157	No	No	2.00
215	9.51	1.75	2.48	2.03	0.82	32.66	2.85	93.24	0.155	No	No	2.00
216	9.53	1.77	2.47	2.00	0.81	33.14	2.80	92.70	0.154	No	No	2.00
217	9.55	1.79	2.46	1.96	0.81	33.45	2.74	91.79	0.152	No	No	2.00
218	9.57	1.78	2.47	1.96	0.81	33.28	2.76	91.75	0.152	No	No	2.00
219	9.59	1.75	2.48	2.00	0.81	32.79	2.82	92.58	4.000	Yes	No	2.00
220	9.61	1.71	2.50	2.09	0.82	31.91	2.96	94.58	4.000	Yes	No	2.00
221	9.63	1.66	2.53	2.25	0.83	30.95	3.37	104.29	4.000	Yes	No	2.00
222	9.65	1.60	2.56	2.45	0.85	29.76	4.29	127.56	4.000	Yes	No	2.00
223	9.67	1.54	2.60	2.67	0.86	28.54	5.47	156.16	4.000	Yes	No	2.00
224	9.69	1.55	2.60	2.66	0.86	28.68	5.38	154.16	0.421	No	No	2.00
225	9.71	1.54	2.60	2.65	0.86	28.63	5.36	153.52	0.416	No	No	2.00
226	9.73	1.53	2.60	2.61	0.86	28.28	5.38	152.10	0.407	No	No	2.00
227	9.75	1.44	2.64	2.75	0.88	26.52	6.77	179.55	0.556	No	No	2.00
228	9.77	1.37	2.66	2.84	0.89	25.13	8.00	200.96	3.600	No	No	2.00
229	9.79	1.31	2.68	2.89	0.89	24.03	9.05	217.47	3.600	No	No	2.00
230	9.81	1.27	2.69	2.89	0.90	23.21	9.74	226.11	3.600	No	No	2.00
231	9.83	1.24	2.70	2.85	0.90	22.53	10.17	229.12	3.600	No	No	2.00
232	9.85	1.21	2.70	2.81	0.90	22.04	4.74	104.47	1.051	No	Yes	2.00
233	9.87	1.18	2.72	2.83	0.91	21.41	4.87	104.28	1.021	No	Yes	2.00
234	9.89	1.14	2.74	2.92	0.92	20.54	5.11	105.02	0.980	No	Yes	2.00
235	9.91	1.09	2.76	3.04	0.93	19.59	5.43	106.33	0.934	No	Yes	2.00
236	9.93	1.02	2.80	3.17	0.94	18.30	5.85	107.00	0.873	No	Yes	2.00
237	9.95	0.95	2.84	3.31	0.95	16.89	6.35	107.23	0.806	No	Yes	2.00
238	9.97	0.83	2.92	3.74	0.99	14.54	7.54	109.58	0.693	No	Yes	2.00
239	9.99	0.72	3.03	4.45	1.00	12.21	9.27	113.19	0.582	No	Yes	2.00
240	10.01	0.61	3.15	5.41	1.00	10.05	11.57	116.32	0.480	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	10.03	0.61	3.13	5.18	1.00	10.10	11.29	114.09	0.482	No	Yes	2.00
242	10.05	0.70	3.02	4.09	1.00	11.79	9.09	107.21	0.562	No	Yes	2.00
243	10.07	0.81	2.89	3.11	0.97	14.08	6.99	98.42	0.671	No	Yes	2.00
244	10.09	0.88	2.82	2.72	0.95	15.43	6.08	93.82	0.736	No	Yes	2.00
245	10.11	0.90	2.81	2.65	0.94	15.69	5.93	93.00	0.748	No	Yes	2.00
246	10.13	0.92	2.79	2.58	0.94	16.11	5.72	92.20	0.768	No	Yes	2.00
247	10.15	0.95	2.76	2.40	0.92	16.84	5.32	89.68	0.803	No	Yes	2.00
248	10.17	1.00	2.72	2.22	0.91	17.74	4.90	86.84	0.846	No	Yes	2.00
249	10.19	1.02	2.72	2.29	0.91	18.13	4.89	88.68	0.865	No	Yes	2.00
250	10.21	1.02	2.75	2.56	0.92	18.17	5.21	94.63	0.867	No	Yes	2.00
251	10.23	1.01	2.79	2.94	0.94	17.87	5.70	101.84	0.852	No	Yes	2.00
252	10.25	1.01	2.80	3.06	0.94	17.86	5.83	104.15	0.852	No	Yes	2.00
253	10.27	1.01	2.79	3.00	0.94	17.99	5.74	103.21	0.858	No	Yes	2.00
254	10.29	1.03	2.77	2.84	0.93	18.26	5.50	100.44	0.871	No	Yes	2.00
255	10.31	1.04	2.76	2.76	0.93	18.35	5.39	98.89	0.875	No	Yes	2.00
256	10.33	1.07	2.74	2.64	0.92	18.70	5.18	96.94	0.892	No	Yes	2.00
257	10.35	1.11	2.71	2.44	0.91	19.32	4.84	93.41	0.921	No	Yes	2.00
258	10.37	1.18	2.68	2.28	0.89	20.37	8.72	177.66	0.541	No	No	2.00
259	10.39	1.23	2.65	2.18	0.88	21.24	7.41	157.32	0.398	No	No	2.00
260	10.41	1.26	2.65	2.29	0.89	21.73	7.64	165.96	0.455	No	No	2.00
261	10.43	1.25	2.69	2.60	0.90	21.58	9.57	206.54	3.600	No	No	2.00
262	10.45	1.22	2.73	2.94	0.91	21.31	5.00	106.44	1.016	No	Yes	2.00
263	10.47	1.21	2.75	3.22	0.92	21.12	5.31	112.06	1.008	No	Yes	2.00
264	10.49	1.20	2.78	3.46	0.93	20.96	5.57	116.70	1.000	No	Yes	2.00
265	10.51	1.19	2.81	3.83	0.94	20.84	5.94	123.80	0.994	No	Yes	2.00
266	10.53	1.18	2.83	4.17	0.95	20.80	6.25	130.03	0.992	No	Yes	2.00
267	10.55	1.20	2.84	4.39	0.96	21.11	6.39	134.80	1.007	No	Yes	2.00
268	10.57	1.23	2.83	4.33	0.95	21.62	6.23	134.73	1.031	No	Yes	2.00
269	10.59	1.26	2.82	4.25	0.95	22.12	6.07	134.18	1.055	No	Yes	2.00
270	10.61	1.26	2.82	4.33	0.95	22.01	6.15	135.36	1.050	No	Yes	2.00
271	10.63	1.25	2.84	4.54	0.96	21.78	6.37	138.78	1.039	No	Yes	2.00
272	10.65	1.23	2.85	4.62	0.96	21.50	6.50	139.78	1.026	No	Yes	2.00
273	10.67	1.24	2.84	4.43	0.96	21.56	6.33	136.47	1.028	No	Yes	2.00
274	10.69	1.25	2.83	4.34	0.95	21.53	6.25	134.65	1.027	No	Yes	2.00
275	10.71	1.30	2.81	4.17	0.95	22.32	5.96	133.02	1.065	No	Yes	2.00
276	10.73	1.38	2.77	3.89	0.93	23.59	5.49	129.64	1.125	No	Yes	2.00
277	10.75	1.39	2.76	3.70	0.93	23.56	5.33	125.48	1.124	No	Yes	2.00
278	10.77	1.29	2.79	3.77	0.94	21.76	5.71	124.22	1.038	No	Yes	2.00
279	10.79	1.12	2.84	3.82	0.96	18.84	6.36	119.87	0.899	No	Yes	2.00
280	10.81	1.01	2.88	3.80	0.97	16.89	6.85	115.73	0.805	No	Yes	2.00
281	10.83	0.94	2.91	3.87	0.98	15.66	7.29	114.20	0.747	No	Yes	2.00
282	10.85	0.90	2.95	4.33	1.00	14.99	7.99	119.78	0.715	No	Yes	2.00
283	10.87	0.88	2.99	4.77	1.00	14.55	8.58	124.82	0.694	No	Yes	2.00
284	10.89	0.88	3.01	5.14	1.00	14.58	8.92	130.01	0.695	No	Yes	2.00
285	10.91	0.89	3.01	5.24	1.00	14.66	8.97	131.61	0.699	No	Yes	2.00
286	10.93	0.94	2.98	4.98	1.00	15.54	8.41	130.74	0.741	No	Yes	2.00
287	10.95	0.98	2.94	4.49	0.99	16.21	7.73	125.38	0.773	No	Yes	2.00
288	10.97	0.99	2.93	4.40	0.99	16.32	7.61	124.20	0.779	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	10.99	0.96	2.95	4.64	1.00	15.79	8.01	126.50	0.753	No	Yes	2.00
290	11.01	0.91	3.00	5.11	1.00	14.84	8.79	130.51	0.708	No	Yes	2.00
291	11.03	0.88	3.03	5.40	1.00	14.25	9.30	132.46	0.680	No	Yes	2.00
292	11.05	0.84	3.07	5.70	1.00	13.39	9.94	133.18	0.639	No	Yes	2.00
293	11.07	0.80	3.09	5.69	1.00	12.57	10.34	129.95	0.600	No	Yes	2.00
294	11.09	0.75	3.11	5.74	1.00	11.74	10.83	127.14	0.560	No	Yes	2.00
295	11.11	0.71	3.14	5.82	1.00	11.01	11.34	124.91	0.525	No	Yes	2.00
296	11.13	0.68	3.17	6.16	1.00	10.39	12.10	125.68	0.495	No	Yes	2.00
297	11.15	0.67	3.19	6.34	1.00	10.06	12.51	125.80	0.480	No	Yes	2.00
298	11.17	0.66	3.19	6.15	1.00	9.88	12.46	123.14	0.471	No	Yes	2.00
299	11.19	0.63	3.20	6.09	1.00	9.38	12.80	120.03	0.447	No	Yes	2.00
300	11.21	0.58	3.25	6.42	1.00	8.48	13.95	118.25	0.404	No	Yes	2.00
301	11.23	0.53	3.32	6.98	1.00	7.45	15.66	116.70	0.356	No	Yes	2.00
302	11.25	0.50	3.34	7.03	1.00	6.96	16.36	113.84	0.332	No	Yes	2.00
303	11.27	0.50	3.32	6.43	1.00	6.85	15.85	108.56	0.327	No	Yes	2.00
304	11.29	0.50	3.30	5.88	1.00	6.90	15.16	104.53	0.329	No	Yes	2.00
305	11.31	0.52	3.26	5.24	1.00	7.14	14.08	100.53	0.341	No	Yes	2.00
306	11.33	0.53	3.23	4.89	1.00	7.37	13.38	98.58	0.352	No	Yes	2.00
307	11.35	0.55	3.19	4.42	1.00	7.61	12.53	95.27	0.363	No	Yes	2.00
308	11.37	0.56	3.17	4.18	1.00	7.77	12.04	93.59	0.371	No	Yes	2.00
309	11.39	0.58	3.13	3.81	1.00	8.07	11.27	91.00	0.385	No	Yes	2.00
310	11.41	0.60	3.09	3.53	1.00	8.56	10.47	89.58	0.408	No	Yes	2.00
311	11.43	0.63	3.05	3.29	1.00	9.08	9.74	88.46	0.433	No	Yes	2.00
312	11.45	0.66	3.03	3.20	1.00	9.43	9.38	88.44	0.450	No	Yes	2.00
313	11.47	0.66	3.04	3.27	1.00	9.43	9.47	89.25	0.450	No	Yes	2.00
314	11.49	0.64	3.06	3.35	1.00	9.13	9.78	89.33	0.436	No	Yes	2.00
315	11.51	0.63	3.07	3.36	1.00	8.85	10.01	88.58	0.422	No	Yes	2.00
316	11.53	0.62	3.06	3.23	1.00	8.74	9.91	86.59	0.417	No	Yes	2.00
317	11.55	0.63	3.05	3.06	1.00	8.85	9.59	84.85	0.422	No	Yes	2.00
318	11.57	0.64	3.04	3.00	1.00	8.92	9.45	84.24	0.425	No	Yes	2.00
319	11.59	0.64	3.04	2.99	1.00	8.97	9.40	84.34	0.428	No	Yes	2.00
320	11.61	0.64	3.04	3.00	1.00	8.98	9.41	84.49	0.428	No	Yes	2.00
321	11.63	0.65	3.02	2.92	1.00	9.17	9.15	83.97	0.438	No	Yes	2.00
322	11.65	0.68	2.99	2.76	1.00	9.64	8.61	83.04	0.460	No	Yes	2.00
323	11.67	0.72	2.95	2.62	1.00	10.32	8.01	82.69	0.492	No	Yes	2.00
324	11.69	0.75	2.94	2.63	1.00	10.67	7.83	83.54	0.509	No	Yes	2.00
325	11.71	0.75	2.96	2.80	1.00	10.69	8.07	86.21	0.510	No	Yes	2.00
326	11.73	0.74	2.96	2.79	1.00	10.52	8.13	85.58	0.502	No	Yes	2.00
327	11.75	0.76	2.93	2.62	1.00	10.87	7.71	83.80	0.519	No	Yes	2.00
328	11.77	0.82	2.88	2.34	0.98	11.71	6.91	80.96	0.559	No	Yes	2.00
329	11.79	0.89	2.84	2.27	0.96	12.79	6.38	81.60	0.610	No	Yes	2.00
330	11.81	0.95	2.82	2.28	0.95	13.62	6.09	83.03	0.650	No	Yes	2.00
331	11.83	0.99	2.81	2.30	0.95	14.19	5.93	84.13	0.677	No	Yes	2.00
332	11.85	1.01	2.80	2.33	0.95	14.48	5.88	85.12	0.691	No	Yes	2.00
333	11.87	1.02	2.81	2.41	0.95	14.57	5.96	86.87	0.695	No	Yes	2.00
334	11.89	1.00	2.82	2.50	0.96	14.29	6.16	88.04	0.682	No	Yes	2.00
335	11.91	0.96	2.85	2.59	0.96	13.76	6.45	88.81	0.657	No	Yes	2.00
336	11.93	0.93	2.87	2.67	0.97	13.20	6.77	89.30	0.630	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	11.95	0.90	2.89	2.83	0.98	12.84	7.11	91.23	0.612	No	Yes	2.00
338	11.97	0.90	2.91	2.97	0.99	12.70	7.34	93.21	0.606	No	Yes	2.00
339	11.99	0.90	2.91	2.96	0.99	12.80	7.29	93.39	0.611	No	Yes	2.00
340	12.01	0.93	2.89	2.85	0.98	13.12	7.02	92.16	0.626	No	Yes	2.00
341	12.03	0.97	2.86	2.69	0.97	13.68	6.62	90.51	0.653	No	Yes	2.00
342	12.05	1.00	2.84	2.63	0.96	14.06	6.41	90.10	0.671	No	Yes	2.00
343	12.07	1.02	2.84	2.62	0.96	14.31	6.31	90.21	0.682	No	Yes	2.00
344	12.09	1.00	2.85	2.75	0.97	14.10	6.54	92.26	0.672	No	Yes	2.00
345	12.11	1.00	2.84	2.64	0.96	14.02	6.43	90.10	4.000	Yes	Yes	2.00
346	12.13	1.12	2.76	2.20	0.93	15.69	5.36	84.17	4.000	Yes	Yes	2.00
347	12.15	1.41	2.62	1.72	0.88	19.64	6.07	119.25	4.000	Yes	No	2.00
348	12.17	2.07	2.42	1.30	0.80	28.56	2.45	70.11	4.000	Yes	No	2.00
349	12.19	2.54	2.33	1.22	0.77	34.87	2.04	71.04	4.000	Yes	No	2.00
350	12.21	2.78	2.30	1.22	0.76	38.09	1.91	72.74	4.000	Yes	No	2.00
351	12.23	2.55	2.36	1.39	0.78	35.15	2.17	76.11	4.000	Yes	No	2.00
352	12.25	2.30	2.44	1.70	0.81	31.95	2.61	83.38	4.000	Yes	No	2.00
353	12.27	2.03	2.55	2.22	0.85	28.44	3.98	113.09	4.000	Yes	No	2.00
354	12.29	1.84	2.65	2.80	0.89	25.98	7.29	189.37	4.000	Yes	No	2.00
355	12.31	1.76	2.69	3.10	0.91	24.97	9.44	235.72	4.000	Yes	No	2.00
356	12.33	1.88	2.67	3.10	0.90	26.62	8.24	219.35	3.600	No	No	2.00
357	12.35	2.08	2.62	2.99	0.88	29.25	6.34	185.34	0.605	No	No	2.00
358	12.37	2.21	2.60	2.94	0.87	31.01	5.46	169.26	0.478	No	No	2.00
359	12.39	2.07	2.62	2.97	0.88	29.09	6.33	184.27	0.596	No	No	2.00
360	12.41	1.84	2.67	3.03	0.90	25.70	8.52	218.98	3.600	No	No	2.00
361	12.43	1.63	2.72	3.07	0.92	22.68	4.89	110.89	1.082	No	Yes	2.00
362	12.45	1.60	2.72	2.98	0.92	22.12	4.89	108.25	1.055	No	Yes	2.00
363	12.47	1.66	2.70	2.96	0.91	22.95	4.74	108.86	1.095	No	Yes	2.00
364	12.49	1.83	2.67	2.90	0.90	25.29	8.20	207.42	3.600	No	No	2.00
365	12.51	2.04	2.62	2.84	0.88	28.23	6.27	176.94	0.536	No	No	2.00
366	12.53	2.10	2.62	2.88	0.88	28.94	6.07	175.69	0.526	No	No	2.00
367	12.55	1.93	2.66	2.98	0.89	26.59	7.71	205.01	3.600	No	No	2.00
368	12.57	1.61	2.73	3.10	0.92	22.09	5.02	110.85	1.054	No	Yes	2.00
369	12.59	1.36	2.79	3.07	0.94	18.42	5.71	105.22	0.879	No	Yes	2.00
370	12.61	1.22	2.82	2.97	0.96	16.33	6.12	99.91	0.779	No	Yes	2.00
371	12.63	1.20	2.82	2.87	0.96	16.06	6.08	97.64	4.000	Yes	Yes	2.00
372	12.65	1.28	2.77	2.60	0.94	17.05	5.51	94.01	4.000	Yes	Yes	2.00
373	12.67	1.48	2.68	2.17	0.90	19.70	8.74	172.17	4.000	Yes	No	2.00
374	12.69	1.85	2.55	1.80	0.85	24.49	3.94	96.59	4.000	Yes	No	2.00
375	12.71	2.27	2.45	1.59	0.82	29.98	2.65	79.32	4.000	Yes	No	2.00
376	12.73	2.61	2.39	1.51	0.79	34.42	2.30	79.31	4.000	Yes	No	2.00
377	12.75	2.67	2.38	1.52	0.79	35.17	2.28	80.08	4.000	Yes	No	2.00
378	12.77	2.51	2.42	1.62	0.80	33.02	2.47	81.62	4.000	Yes	No	2.00
379	12.79	2.18	2.51	1.94	0.84	28.78	3.05	87.85	4.000	Yes	No	2.00
380	12.81	1.83	2.60	2.17	0.87	24.22	5.49	132.96	4.000	Yes	No	2.00
381	12.83	1.70	2.63	2.16	0.89	22.29	6.56	146.15	4.000	Yes	No	2.00
382	12.85	2.06	2.48	1.54	0.83	26.78	2.85	76.31	4.000	Yes	No	2.00
383	12.87	2.63	2.34	1.25	0.78	34.02	2.10	71.53	4.000	Yes	No	2.00
384	12.89	2.99	2.28	1.17	0.75	38.44	1.87	71.75	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	12.91	2.83	2.32	1.25	0.77	36.35	2.00	72.63	4.000	Yes	No	2.00
386	12.93	2.47	2.39	1.38	0.79	31.85	2.33	74.21	4.000	Yes	No	2.00
387	12.95	2.20	2.48	1.70	0.83	28.53	2.86	81.49	4.000	Yes	No	2.00
388	12.97	2.02	2.57	2.16	0.86	26.26	4.54	119.08	4.000	Yes	No	2.00
389	12.99	1.81	2.67	2.72	0.90	23.59	8.53	201.25	4.000	Yes	No	2.00
390	13.01	1.66	2.72	2.99	0.92	21.70	4.97	107.92	4.000	Yes	Yes	2.00
391	13.03	1.60	2.74	3.02	0.93	20.86	5.16	107.59	0.995	No	Yes	2.00
392	13.05	1.66	2.72	2.89	0.92	21.54	4.91	105.73	1.027	No	Yes	2.00
393	13.07	1.70	2.70	2.79	0.91	22.03	4.72	104.08	1.051	No	Yes	2.00
394	13.09	1.68	2.70	2.72	0.91	21.69	4.71	102.21	1.035	No	Yes	2.00
395	13.11	1.69	2.67	2.44	0.90	21.71	8.49	184.27	0.596	No	No	2.00
396	13.13	1.79	2.62	2.14	0.88	22.85	6.12	139.75	0.300	No	No	2.00
397	13.15	1.97	2.57	1.97	0.86	25.12	4.32	108.53	0.199	No	No	2.00
398	13.17	2.13	2.54	1.99	0.85	27.10	3.69	99.94	0.173	No	No	2.00
399	13.19	2.13	2.56	2.12	0.86	27.14	4.10	111.18	0.208	No	No	2.00
400	13.21	2.03	2.59	2.25	0.87	25.81	5.07	130.90	0.289	No	No	2.00
401	13.23	1.86	2.63	2.36	0.89	23.54	6.73	158.52	0.405	No	No	2.00
402	13.25	1.81	2.65	2.40	0.89	22.89	7.37	168.80	0.475	No	No	2.00
403	13.27	1.85	2.64	2.37	0.89	23.41	6.89	161.35	4.000	Yes	No	2.00
404	13.29	1.95	2.62	2.34	0.88	24.60	6.03	148.38	4.000	Yes	No	2.00
405	13.31	2.06	2.60	2.33	0.87	25.96	5.30	137.54	4.000	Yes	No	2.00
406	13.33	2.47	2.50	2.08	0.84	31.13	2.88	89.77	4.000	Yes	No	2.00
407	13.35	3.06	2.37	1.60	0.79	38.18	2.20	84.01	4.000	Yes	No	2.00
408	13.37	3.57	2.26	1.32	0.75	44.20	1.80	79.55	4.000	Yes	No	2.00
409	13.39	3.63	2.22	1.13	0.73	44.70	1.67	74.62	4.000	Yes	No	2.00
410	13.41	3.37	2.28	1.29	0.75	41.61	1.85	76.95	4.000	Yes	No	2.00
411	13.43	3.02	2.36	1.53	0.78	37.44	2.18	81.57	4.000	Yes	No	2.00
412	13.45	2.72	2.46	1.96	0.82	33.93	2.72	92.16	4.000	Yes	No	2.00
413	13.47	2.55	2.53	2.35	0.85	31.91	3.40	108.39	4.000	Yes	No	2.00
414	13.49	2.42	2.59	2.72	0.87	30.25	4.97	150.47	4.000	Yes	No	2.00
415	13.51	2.21	2.65	3.04	0.89	27.70	7.35	203.52	4.000	Yes	No	2.00
416	13.53	2.02	2.70	3.28	0.91	25.26	10.17	257.01	4.000	Yes	No	2.00
417	13.55	1.88	2.73	3.39	0.93	23.39	5.08	118.90	4.000	Yes	Yes	2.00
418	13.57	1.85	2.74	3.36	0.93	22.86	5.14	117.38	1.090	No	Yes	2.00
419	13.59	1.84	2.72	3.15	0.92	22.68	4.97	112.75	4.000	Yes	Yes	2.00
420	13.61	1.92	2.68	2.84	0.91	23.59	9.14	215.58	4.000	Yes	No	2.00
421	13.63	2.28	2.58	2.41	0.87	27.93	4.78	133.40	4.000	Yes	No	2.00
422	13.65	2.71	2.49	2.17	0.84	33.18	2.94	97.67	4.000	Yes	No	2.00
423	13.67	2.94	2.44	1.94	0.81	35.92	2.58	92.72	4.000	Yes	No	2.00
424	13.69	2.85	2.44	1.91	0.82	34.73	2.62	91.05	4.000	Yes	No	2.00
425	13.71	2.65	2.48	1.98	0.83	32.14	2.85	91.55	4.000	Yes	No	2.00
426	13.73	2.50	2.55	2.36	0.86	30.51	3.78	115.46	4.000	Yes	No	2.00
427	13.75	2.30	2.63	2.93	0.89	28.05	6.70	188.06	4.000	Yes	No	2.00
428	13.77	2.08	2.72	3.60	0.92	25.41	4.96	125.99	4.000	Yes	Yes	2.00
429	13.79	1.87	2.80	4.12	0.95	22.82	5.82	132.78	4.000	Yes	Yes	2.00
430	13.81	1.76	2.82	4.19	0.96	21.37	6.16	131.63	4.000	Yes	Yes	2.00
431	13.83	1.70	2.82	4.01	0.96	20.53	6.16	126.54	0.979	No	Yes	2.00
432	13.85	1.69	2.81	3.70	0.96	20.29	5.93	120.26	0.968	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
433	13.87	1.75	2.76	3.30	0.94	20.93	5.42	113.42	0.998	No	Yes	2.00
434	13.89	2.03	2.67	2.77	0.90	24.30	8.26	200.66	3.600	No	No	2.00
435	13.91	2.35	2.58	2.41	0.87	28.08	4.74	132.99	0.299	No	No	2.00
436	13.93	2.61	2.52	2.20	0.85	31.18	3.19	99.52	0.172	No	No	2.00
437	13.95	2.69	2.50	2.14	0.84	32.09	2.84	90.99	0.150	No	No	2.00
438	13.97	2.77	2.49	2.12	0.84	32.95	2.91	95.94	0.162	No	No	2.00
439	13.99	2.88	2.48	2.11	0.83	34.24	2.81	96.40	0.163	No	No	2.00
440	14.01	2.95	2.47	2.08	0.83	34.95	2.75	96.20	0.163	No	No	2.00
441	14.03	2.93	2.47	2.10	0.83	34.71	2.78	96.38	0.163	No	No	2.00
442	14.05	2.83	2.49	2.15	0.84	33.44	2.90	97.13	0.165	No	No	2.00
443	14.07	2.66	2.53	2.33	0.85	31.44	3.47	109.13	0.201	No	No	2.00
444	14.09	2.54	2.57	2.52	0.87	29.98	4.42	132.62	4.000	Yes	No	2.00
445	14.11	2.71	2.53	2.39	0.85	31.90	3.51	111.93	4.000	Yes	No	2.00
446	14.13	2.93	2.49	2.26	0.84	34.41	2.93	100.90	4.000	Yes	No	2.00
447	14.15	3.04	2.47	2.15	0.83	35.66	2.76	98.46	4.000	Yes	No	2.00
448	14.17	2.91	2.51	2.35	0.84	34.11	2.94	100.21	0.174	No	No	2.00
449	14.19	2.84	2.54	2.55	0.85	33.35	3.59	119.82	0.240	No	No	2.00
450	14.21	2.86	2.54	2.64	0.86	33.50	3.78	126.63	0.269	No	No	2.00
451	14.23	2.70	2.58	2.80	0.87	31.60	4.79	151.28	0.402	No	No	2.00
452	14.25	2.43	2.63	2.94	0.89	28.29	6.60	186.78	0.617	No	No	2.00
453	14.27	2.22	2.68	3.15	0.91	25.76	9.08	233.87	3.600	No	No	2.00
454	14.29	2.24	2.67	3.02	0.91	25.83	8.40	217.09	3.600	No	No	2.00
455	14.31	2.30	2.65	2.93	0.90	26.49	7.55	199.92	0.741	No	No	2.00
456	14.33	2.25	2.66	2.96	0.90	25.86	8.11	209.60	3.600	No	No	2.00
457	14.35	2.14	2.70	3.13	0.92	24.49	9.97	244.24	3.600	No	No	2.00
458	14.37	2.08	2.71	3.21	0.92	23.73	4.86	115.28	1.132	No	Yes	2.00
459	14.39	2.11	2.71	3.19	0.92	24.15	4.78	115.33	4.000	Yes	Yes	2.00
460	14.41	2.28	2.66	2.95	0.90	26.03	7.93	206.31	4.000	Yes	No	2.00
461	14.43	2.50	2.60	2.69	0.88	28.61	5.53	158.27	4.000	Yes	No	2.00
462	14.45	2.80	2.54	2.45	0.86	32.02	3.63	116.33	4.000	Yes	No	2.00
463	14.47	3.12	2.48	2.23	0.83	35.61	2.83	100.71	4.000	Yes	No	2.00
464	14.49	3.28	2.44	2.09	0.82	37.37	2.62	97.94	4.000	Yes	No	2.00
465	14.51	3.36	2.42	2.00	0.81	38.22	2.50	95.73	4.000	Yes	No	2.00
466	14.53	3.38	2.41	1.92	0.81	38.32	2.44	93.48	0.156	No	No	2.00
467	14.55	3.50	2.39	1.82	0.80	39.53	2.31	91.31	0.151	No	No	2.00
468	14.57	3.59	2.37	1.73	0.79	40.49	2.20	89.23	0.146	No	No	2.00
469	14.59	3.48	2.36	1.64	0.79	39.18	2.19	85.61	0.138	No	No	2.00
470	14.61	3.35	2.36	1.56	0.79	37.48	2.20	82.40	4.000	Yes	No	2.00
471	14.63	2.95	2.46	1.93	0.83	33.07	2.74	90.71	4.000	Yes	No	2.00
472	14.65	2.63	2.58	2.56	0.87	29.46	4.73	139.24	4.000	Yes	No	2.00
473	14.67	2.21	2.72	3.44	0.93	24.66	4.93	121.52	4.000	Yes	Yes	2.00
474	14.69	2.06	2.75	3.52	0.94	22.83	5.29	120.69	4.000	Yes	Yes	2.00
475	14.71	2.08	2.73	3.27	0.93	23.02	5.02	115.65	4.000	Yes	Yes	2.00
476	14.73	2.34	2.65	2.82	0.90	25.85	7.45	192.56	4.000	Yes	No	2.00
477	14.75	2.67	2.56	2.42	0.87	29.65	4.23	125.33	4.000	Yes	No	2.00
478	14.77	2.96	2.49	2.06	0.84	32.72	2.88	94.19	4.000	Yes	No	2.00
479	14.79	2.94	2.46	1.89	0.83	32.49	2.74	89.15	4.000	Yes	No	2.00
480	14.81	2.79	2.49	1.91	0.84	30.61	2.90	88.73	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
481	14.83	2.56	2.55	2.19	0.86	28.12	3.98	111.97	4.000	Yes	No	2.00
482	14.85	2.47	2.60	2.51	0.88	27.08	5.49	148.57	4.000	Yes	No	2.00
483	14.87	2.32	2.66	2.89	0.91	25.38	8.09	205.25	4.000	Yes	No	2.00
484	14.89	2.18	2.72	3.21	0.93	23.70	4.87	115.39	4.000	Yes	Yes	2.00
485	14.91	2.45	2.64	2.88	0.90	26.76	7.17	191.75	4.000	Yes	No	2.00
486	14.93	2.98	2.53	2.40	0.85	32.61	3.38	110.34	4.000	Yes	No	2.00
487	14.95	3.53	2.44	2.15	0.82	38.79	2.59	100.47	4.000	Yes	No	2.00
488	14.97	3.59	2.43	2.09	0.82	39.29	2.52	99.19	4.000	Yes	No	2.00
489	14.99	3.31	2.46	2.12	0.83	36.11	2.71	97.85	4.000	Yes	No	2.00
490	15.01	2.86	2.51	2.10	0.85	30.94	2.99	92.59	4.000	Yes	No	2.00
491	15.03	2.31	2.64	2.54	0.90	24.82	6.80	168.72	4.000	Yes	No	2.00
492	15.05	2.06	2.72	2.95	0.93	21.91	4.91	107.51	4.000	Yes	Yes	2.00
493	15.07	2.07	2.74	3.17	0.93	22.01	5.10	112.23	1.050	No	Yes	2.00
494	15.09	2.24	2.68	2.89	0.91	23.94	9.12	218.38	3.600	No	No	2.00
495	15.11	2.21	2.69	2.90	0.92	23.56	9.53	224.59	3.600	No	No	2.00
496	15.13	2.13	2.70	2.88	0.92	22.60	4.72	106.60	1.078	No	Yes	2.00
497	15.15	2.15	2.69	2.74	0.92	22.70	9.36	212.35	3.600	No	No	2.00
498	15.17	2.16	2.67	2.58	0.91	22.76	8.44	192.09	0.665	No	No	2.00
499	15.19	2.04	2.70	2.66	0.92	21.41	10.07	215.69	3.600	No	No	2.00
500	15.21	1.87	2.75	2.88	0.94	19.48	5.28	102.88	0.929	No	Yes	2.00
501	15.23	1.63	2.84	3.30	0.97	16.70	6.39	106.71	0.797	No	Yes	2.00
502	15.25	1.44	2.91	3.56	1.00	14.58	7.33	106.79	0.695	No	Yes	2.00
503	15.27	1.27	2.98	3.82	1.00	12.51	8.44	105.63	0.597	No	Yes	2.00
504	15.29	1.33	2.92	3.30	1.00	13.29	7.51	99.79	0.634	No	Yes	2.00
505	15.31	1.52	2.83	2.84	0.97	15.34	6.26	95.99	0.732	No	Yes	2.00
506	15.33	1.72	2.75	2.46	0.94	17.49	5.24	91.71	0.834	No	Yes	2.00
507	15.35	1.73	2.74	2.44	0.94	17.65	5.19	91.52	0.842	No	Yes	2.00
508	15.37	1.56	2.81	2.64	0.96	15.67	5.92	92.79	0.748	No	Yes	2.00
509	15.39	1.34	2.90	2.98	1.00	13.24	7.15	94.60	0.632	No	Yes	2.00
510	15.41	1.24	2.94	3.05	1.00	12.02	7.75	93.08	4.000	Yes	Yes	2.00
511	15.43	1.36	2.86	2.58	0.98	13.31	6.61	87.98	4.000	Yes	Yes	2.00
512	15.45	1.70	2.72	2.11	0.93	17.12	4.89	83.74	4.000	Yes	Yes	2.00
513	15.47	2.15	2.58	1.73	0.88	21.97	4.74	104.04	4.000	Yes	No	2.00
514	15.49	2.38	2.53	1.68	0.86	24.48	3.49	85.56	4.000	Yes	No	2.00
515	15.51	2.51	2.51	1.64	0.85	25.83	2.98	77.10	4.000	Yes	No	2.00
516	15.53	2.77	2.45	1.53	0.83	28.62	2.68	76.83	4.000	Yes	No	2.00
517	15.55	3.14	2.40	1.45	0.81	32.56	2.35	76.47	4.000	Yes	No	2.00
518	15.57	3.31	2.38	1.45	0.80	34.33	2.26	77.56	0.123	No	No	2.00
519	15.59	3.26	2.40	1.54	0.81	33.76	2.36	79.77	0.127	No	No	2.00
520	15.61	3.28	2.40	1.59	0.81	33.92	2.40	81.29	0.130	No	No	2.00
521	15.63	3.29	2.42	1.70	0.82	34.01	2.49	84.57	4.000	Yes	No	2.00
522	15.65	3.07	2.48	1.90	0.84	31.66	2.81	89.10	4.000	Yes	No	2.00
523	15.67	2.64	2.58	2.31	0.88	27.00	4.81	129.76	4.000	Yes	No	2.00
524	15.69	2.24	2.70	2.88	0.92	22.62	4.72	106.78	4.000	Yes	Yes	2.00
525	15.71	1.94	2.82	3.68	0.97	19.37	6.11	118.37	4.000	Yes	Yes	2.00
526	15.73	1.80	2.87	3.97	0.99	17.83	6.77	120.67	4.000	Yes	Yes	2.00
527	15.75	1.93	2.80	3.34	0.96	19.26	5.80	111.74	4.000	Yes	Yes	2.00
528	15.77	2.15	2.69	2.62	0.92	21.55	9.74	209.82	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
529	15.79	2.57	2.54	1.90	0.86	25.94	3.78	97.97	4.000	Yes	No	2.00
530	15.81	2.65	2.49	1.61	0.84	26.72	2.93	78.26	4.000	Yes	No	2.00
531	15.83	2.59	2.48	1.45	0.84	25.97	2.83	73.40	4.000	Yes	No	2.00
532	15.85	2.18	2.59	1.74	0.88	21.57	5.02	108.22	4.000	Yes	No	2.00
533	15.87	1.98	2.67	2.07	0.91	19.44	8.34	162.13	4.000	Yes	No	2.00
534	15.89	1.97	2.69	2.26	0.92	19.27	9.75	187.99	4.000	Yes	No	2.00
535	15.91	2.00	2.70	2.35	0.92	19.62	9.98	195.78	0.700	No	No	2.00
536	15.93	1.87	2.75	2.63	0.94	18.16	5.28	95.96	0.866	No	Yes	2.00
537	15.95	1.60	2.86	3.15	0.98	15.30	6.63	101.40	0.730	No	Yes	2.00
538	15.97	1.40	2.95	3.60	1.00	13.15	7.92	104.06	0.627	No	Yes	2.00
539	15.99	1.30	3.00	3.83	1.00	11.98	8.70	104.25	0.571	No	Yes	2.00
540	16.01	1.30	2.99	3.75	1.00	11.99	8.61	103.22	0.572	No	Yes	2.00
541	16.03	1.33	2.97	3.55	1.00	12.22	8.26	100.93	0.583	No	Yes	2.00
542	16.05	1.40	2.92	3.21	1.00	12.96	7.53	97.66	0.618	No	Yes	2.00
543	16.07	1.50	2.85	2.72	0.98	14.09	6.51	91.65	0.672	No	Yes	2.00
544	16.09	1.50	2.84	2.57	0.98	14.00	6.35	88.86	0.668	No	Yes	2.00
545	16.11	1.40	2.88	2.68	0.99	12.90	6.90	88.96	0.615	No	Yes	2.00
546	16.13	1.25	2.95	2.95	1.00	11.27	7.96	89.71	0.537	No	Yes	2.00
547	16.15	1.18	2.99	3.11	1.00	10.50	8.59	90.20	0.501	No	Yes	2.00
548	16.17	1.15	3.00	3.10	1.00	10.20	8.74	89.23	0.487	No	Yes	2.00
549	16.19	1.13	3.01	3.19	1.00	9.97	9.00	89.79	0.476	No	Yes	2.00
550	16.21	1.12	3.01	3.12	1.00	9.82	9.01	88.49	0.469	No	Yes	2.00
551	16.23	1.12	3.00	2.96	1.00	9.79	8.80	86.18	0.467	No	Yes	2.00
552	16.25	1.12	2.99	2.81	1.00	9.77	8.60	84.03	0.466	No	Yes	2.00
553	16.27	1.13	2.98	2.70	1.00	9.82	8.41	82.59	0.469	No	Yes	2.00
554	16.29	1.14	2.97	2.67	1.00	9.92	8.31	82.45	0.473	No	Yes	2.00
555	16.31	1.16	2.96	2.62	1.00	10.19	8.08	82.29	0.486	No	Yes	2.00
556	16.33	1.20	2.95	2.62	1.00	10.53	7.90	83.11	0.502	No	Yes	2.00
557	16.35	1.22	2.94	2.62	1.00	10.77	7.76	83.54	0.514	No	Yes	2.00
558	16.37	1.25	2.93	2.63	1.00	10.99	7.66	84.19	0.524	No	Yes	2.00
559	16.39	1.28	2.92	2.59	1.00	11.34	7.44	84.42	0.541	No	Yes	2.00
560	16.41	1.33	2.90	2.59	1.00	11.82	7.22	85.35	0.564	No	Yes	2.00
561	16.43	1.37	2.89	2.62	1.00	12.22	7.09	86.61	0.583	No	Yes	2.00
562	16.45	1.48	2.85	2.50	0.98	13.34	6.48	86.45	0.636	No	Yes	2.00
563	16.47	1.65	2.79	2.31	0.96	15.06	5.68	85.55	0.718	No	Yes	2.00
564	16.49	1.84	2.73	2.20	0.94	17.02	5.03	85.61	0.812	No	Yes	2.00
565	16.51	1.94	2.72	2.29	0.93	18.11	4.90	88.76	0.864	No	Yes	2.00
566	16.53	1.92	2.73	2.38	0.94	17.85	5.06	90.40	0.852	No	Yes	2.00
567	16.55	1.72	2.79	2.53	0.96	15.70	5.78	90.68	0.749	No	Yes	2.00
568	16.57	1.48	2.85	2.48	0.98	13.19	6.51	85.87	0.629	No	Yes	2.00
569	16.59	1.26	2.93	2.58	1.00	10.89	7.64	83.20	0.520	No	Yes	2.00
570	16.61	1.16	2.98	2.74	1.00	9.90	8.42	83.31	0.472	No	Yes	2.00
571	16.63	1.08	3.08	3.57	1.00	9.02	10.17	91.74	0.430	No	Yes	2.00
572	16.65	1.02	3.16	4.51	1.00	8.34	11.92	99.49	0.398	No	Yes	2.00
573	16.67	0.97	3.23	5.32	1.00	7.83	13.40	104.95	0.374	No	Yes	2.00
574	16.69	0.94	3.26	5.52	1.00	7.46	14.04	104.70	0.356	No	Yes	2.00
575	16.71	0.92	3.26	5.48	1.00	7.29	14.19	103.41	0.348	No	Yes	2.00
576	16.73	0.92	3.23	4.95	1.00	7.31	13.52	98.85	0.349	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
577	16.75	0.93	3.20	4.28	1.00	7.34	12.63	92.75	0.350	No	Yes	2.00
578	16.77	0.93	3.15	3.54	1.00	7.33	11.61	85.08	0.350	No	Yes	2.00
579	16.79	0.92	3.13	3.18	1.00	7.27	11.14	80.94	0.347	No	Yes	2.00
580	16.81	0.93	3.11	3.02	1.00	7.30	10.85	79.21	0.348	No	Yes	2.00
581	16.83	0.93	3.11	3.01	1.00	7.32	10.82	79.24	0.349	No	Yes	2.00
582	16.85	0.93	3.11	3.00	1.00	7.29	10.83	78.96	0.348	No	Yes	2.00
583	16.87	0.92	3.12	3.04	1.00	7.22	10.96	79.11	0.344	No	Yes	2.00
584	16.89	0.91	3.13	3.07	1.00	7.08	11.15	78.95	0.338	No	Yes	2.00
585	16.91	0.92	3.12	3.02	1.00	7.13	11.02	78.58	0.340	No	Yes	2.00
586	16.93	0.94	3.10	2.88	1.00	7.30	10.63	77.62	0.348	No	Yes	2.00
587	16.95	0.96	3.08	2.75	1.00	7.54	10.20	76.90	0.360	No	Yes	2.00
588	16.97	0.97	3.07	2.70	1.00	7.62	10.03	76.48	0.364	No	Yes	2.00
589	16.99	0.95	3.09	2.81	1.00	7.42	10.39	77.12	0.354	No	Yes	2.00
590	17.01	0.94	3.10	2.90	1.00	7.33	10.63	77.95	0.350	No	Yes	2.00
591	17.03	0.94	3.11	2.99	1.00	7.29	10.82	78.91	0.348	No	Yes	2.00
592	17.05	0.96	3.10	3.00	1.00	7.43	10.71	79.50	0.354	No	Yes	2.00
593	17.07	0.97	3.10	2.99	1.00	7.54	10.57	79.68	0.360	No	Yes	2.00
594	17.09	0.97	3.09	2.97	1.00	7.58	10.51	79.69	0.362	No	Yes	2.00
595	17.11	0.99	3.08	2.89	1.00	7.75	10.22	79.22	0.370	No	Yes	2.00
596	17.13	1.01	3.07	2.79	1.00	7.88	9.95	78.48	0.376	No	Yes	2.00
597	17.15	1.02	3.05	2.67	1.00	7.99	9.67	77.28	0.381	No	Yes	2.00
598	17.17	1.02	3.04	2.55	1.00	8.01	9.45	75.74	0.382	No	Yes	2.00
599	17.19	1.04	3.02	2.41	1.00	8.15	9.11	74.25	0.389	No	Yes	2.00
600	17.21	1.07	3.00	2.29	1.00	8.41	8.71	73.23	0.401	No	Yes	2.00
601	17.23	1.08	2.99	2.26	1.00	8.52	8.58	73.09	0.406	No	Yes	2.00
602	17.25	1.07	3.00	2.30	1.00	8.41	8.73	73.43	0.401	No	Yes	2.00
603	17.27	1.05	3.01	2.38	1.00	8.25	8.98	74.10	0.394	No	Yes	2.00
604	17.29	1.06	3.01	2.38	1.00	8.31	8.94	74.26	0.396	No	Yes	2.00
605	17.31	1.07	3.00	2.35	1.00	8.42	8.80	74.06	0.402	No	Yes	2.00
606	17.33	1.08	3.00	2.30	1.00	8.45	8.70	73.53	0.403	No	Yes	2.00
607	17.35	1.08	2.99	2.27	1.00	8.46	8.65	73.15	0.403	No	Yes	2.00
608	17.37	1.10	2.98	2.24	1.00	8.60	8.48	72.96	0.410	No	Yes	2.00
609	17.39	1.12	2.97	2.19	1.00	8.81	8.25	72.68	0.420	No	Yes	2.00
610	17.41	1.14	2.95	2.13	1.00	8.98	8.04	72.16	0.428	No	Yes	2.00
611	17.43	1.15	2.94	2.09	1.00	9.13	7.87	71.85	0.435	No	Yes	2.00
612	17.45	1.18	2.93	2.05	1.00	9.35	7.67	71.71	0.446	No	Yes	2.00
613	17.47	1.23	2.90	1.99	1.00	9.88	7.26	71.75	0.471	No	Yes	2.00
614	17.49	1.29	2.87	1.90	1.00	10.43	6.83	71.24	0.498	No	Yes	2.00
615	17.51	1.34	2.85	1.85	0.99	10.86	6.53	70.90	0.518	No	Yes	2.00
616	17.53	1.34	2.86	1.90	0.99	10.89	6.60	71.89	0.520	No	Yes	2.00
617	17.55	1.32	2.89	2.08	1.00	10.66	7.00	74.68	0.509	No	Yes	2.00
618	17.57	1.28	2.93	2.33	1.00	10.25	7.61	78.02	0.489	No	Yes	2.00
619	17.59	1.22	2.98	2.63	1.00	9.67	8.40	81.26	0.461	No	Yes	2.00
620	17.61	1.18	3.02	2.92	1.00	9.19	9.14	84.01	0.438	No	Yes	2.00
621	17.63	1.16	3.05	3.14	1.00	9.00	9.59	86.23	0.429	No	Yes	2.00
622	17.65	1.19	3.03	3.08	1.00	9.31	9.28	86.42	0.444	No	Yes	2.00
623	17.67	1.30	2.96	2.76	1.00	10.36	8.19	84.77	0.494	No	Yes	2.00
624	17.69	2.35	2.54	1.32	0.87	20.57	3.66	75.23	0.120	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
625	17.71	7.63	1.79	0.36	0.58	72.10	1.00	72.10	0.115	No	No	2.00
626	17.73	14.13	1.46	0.24	0.46	135.74	1.00	135.74	0.313	No	No	2.00
627	17.75	19.99	1.30	0.21	0.40	193.07	1.00	193.07	0.749	No	No	2.00
628	17.77	21.46	1.31	0.25	0.40	207.31	1.00	207.31	4.000	No	No	2.00
629	17.79	22.52	1.31	0.27	0.40	217.50	1.00	217.50	4.000	No	No	2.00
630	17.81	23.03	1.33	0.32	0.41	222.23	1.00	222.23	4.000	No	No	2.00
631	17.83	24.20	1.34	0.34	0.41	233.41	1.00	233.41	4.000	No	No	2.00
632	17.85	24.57	1.35	0.37	0.42	236.87	1.00	236.87	4.000	No	No	2.00
633	17.87	25.04	1.33	0.35	0.41	241.30	1.00	241.30	4.000	No	No	2.00
634	17.89	24.41	1.34	0.36	0.41	234.93	1.00	234.93	4.000	No	No	2.00
635	17.91	23.39	1.37	0.37	0.42	224.72	1.00	224.72	4.000	No	No	2.00
636	17.93	21.92	1.44	0.45	0.45	210.10	1.00	210.10	4.000	No	No	2.00
637	17.95	20.63	1.52	0.56	0.48	197.12	1.00	197.12	0.792	No	No	2.00
638	17.97	19.93	1.63	0.77	0.52	189.90	1.00	189.90	0.717	No	No	2.00
639	17.99	20.16	1.66	0.87	0.53	191.76	1.00	191.76	0.736	No	No	2.00
640	18.01	21.35	1.64	0.86	0.53	203.06	1.00	203.06	4.000	No	No	2.00
641	18.03	22.40	1.58	0.75	0.50	213.18	1.00	213.18	4.000	No	No	2.00
642	18.05	23.27	1.53	0.67	0.49	221.59	1.00	221.59	4.000	No	No	2.00
643	18.07	23.65	1.51	0.63	0.48	225.13	1.00	225.13	4.000	No	No	2.00
644	18.09	23.73	1.48	0.57	0.47	225.84	1.00	225.84	4.000	No	No	2.00
645	18.11	23.82	1.50	0.60	0.47	226.37	1.00	226.37	4.000	No	No	2.00
646	18.13	23.94	1.50	0.60	0.47	227.37	1.00	227.37	4.000	No	No	2.00
647	18.15	24.34	1.52	0.66	0.48	230.90	1.00	230.90	4.000	No	No	2.00
648	18.17	24.59	1.51	0.65	0.48	233.07	1.00	233.07	4.000	No	No	2.00
649	18.19	24.12	1.52	0.66	0.48	228.27	1.00	228.27	4.000	No	No	2.00
650	18.21	23.37	1.52	0.63	0.48	220.96	1.00	220.96	4.000	No	No	2.00
651	18.23	21.83	1.53	0.60	0.49	205.97	1.00	205.97	4.000	No	No	2.00
652	18.25	20.91	1.54	0.59	0.49	197.01	1.00	197.01	0.791	No	No	2.00
653	18.27	20.17	1.58	0.66	0.51	189.56	1.00	189.56	0.713	No	No	2.00
654	18.29	20.46	1.61	0.75	0.52	191.97	1.00	191.97	0.738	No	No	2.00
655	18.31	20.50	1.65	0.84	0.53	191.91	1.00	191.91	0.737	No	No	2.00
656	18.33	19.87	1.67	0.87	0.54	185.69	1.00	185.69	0.675	No	No	2.00
657	18.35	19.03	1.72	0.99	0.56	177.20	1.04	184.01	0.659	No	No	2.00
658	18.37	17.66	1.83	1.30	0.60	163.59	1.19	193.98	0.759	No	No	2.00
659	18.39	17.23	1.93	1.74	0.64	158.78	1.26	199.99	0.824	No	No	2.00
660	18.41	17.40	2.00	2.13	0.67	159.86	1.31	208.94	4.000	No	No	2.00
661	18.43	19.78	1.98	2.20	0.66	181.91	1.29	234.44	4.000	No	No	2.00
662	18.45	22.16	1.95	2.22	0.65	203.98	1.27	259.07	4.000	No	No	2.00
663	18.47	24.17	1.93	2.26	0.64	222.54	1.26	280.04	4.000	No	No	2.00
664	18.49	25.39	1.94	2.41	0.65	233.41	1.27	295.59	4.000	No	No	2.00
665	18.51	27.27	1.93	2.46	0.64	250.60	1.26	315.59	4.000	No	No	2.00
666	18.53	28.51	1.94	2.54	0.64	261.74	1.26	329.95	4.000	No	No	2.00
667	18.55	30.77	1.89	2.36	0.63	282.81	1.23	348.12	4.000	No	No	2.00
668	18.57	32.47	1.86	2.26	0.61	298.51	1.21	361.11	4.000	No	No	2.00
669	18.59	34.57	1.82	2.10	0.60	318.01	1.17	373.32	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
5.23	2.00	0.00	0.00	0.02	0.00	5.25	2.00	0.00	0.00	0.02	0.00
5.27	2.00	0.00	0.00	0.02	0.00	5.29	2.00	0.00	0.00	0.02	0.00
5.31	2.00	0.00	0.00	0.02	0.00	5.33	2.00	0.00	0.00	0.02	0.00
5.35	2.00	0.00	0.00	0.02	0.00	5.37	2.00	0.00	0.00	0.02	0.00
5.39	2.00	0.00	0.00	0.02	0.00	5.41	2.00	0.00	0.00	0.02	0.00
5.43	2.00	0.00	0.00	0.02	0.00	5.45	2.00	0.00	0.00	0.02	0.00
5.47	2.00	0.00	0.00	0.02	0.00	5.49	2.00	0.00	0.00	0.02	0.00
5.51	2.00	0.00	0.00	0.02	0.00	5.53	2.00	0.00	0.00	0.02	0.00
5.55	2.00	0.00	0.00	0.02	0.00	5.57	2.00	0.00	0.00	0.02	0.00
5.59	2.00	0.00	0.00	0.02	0.00	5.61	2.00	0.00	0.00	0.02	0.00
5.63	2.00	0.00	0.00	0.02	0.00	5.65	2.00	0.00	0.00	0.02	0.00
5.67	2.00	0.00	0.00	0.02	0.00	5.69	2.00	0.00	0.00	0.02	0.00
5.71	2.00	0.00	0.00	0.02	0.00	5.73	2.00	0.00	0.00	0.02	0.00
5.75	2.00	0.00	0.00	0.02	0.00	5.77	2.00	0.00	0.00	0.02	0.00
5.79	2.00	0.00	0.00	0.02	0.00	5.81	2.00	0.00	0.00	0.02	0.00
5.83	2.00	0.00	0.00	0.02	0.00	5.85	2.00	0.00	0.00	0.02	0.00
5.87	2.00	0.00	0.00	0.02	0.00	5.89	2.00	0.00	0.00	0.02	0.00
5.91	2.00	0.00	0.00	0.02	0.00	5.93	2.00	0.00	0.00	0.02	0.00
5.95	2.00	0.00	0.00	0.02	0.00	5.97	2.00	0.00	0.00	0.02	0.00
5.99	2.00	0.00	0.00	0.02	0.00	6.01	2.00	0.00	0.00	0.02	0.00
6.03	2.00	0.00	0.00	0.02	0.00	6.05	2.00	0.00	0.00	0.02	0.00
6.07	2.00	0.00	0.00	0.02	0.00	6.09	2.00	0.00	0.00	0.02	0.00
6.11	2.00	0.00	0.00	0.02	0.00	6.13	2.00	0.00	0.00	0.02	0.00
6.15	2.00	0.00	0.00	0.02	0.00	6.17	2.00	0.00	0.00	0.02	0.00
6.19	2.00	0.00	0.00	0.02	0.00	6.21	2.00	0.00	0.00	0.02	0.00
6.23	2.00	0.00	0.00	0.02	0.00	6.25	2.00	0.00	0.00	0.02	0.00
6.27	2.00	0.00	0.00	0.02	0.00	6.29	2.00	0.00	0.00	0.02	0.00
6.31	2.00	0.00	0.00	0.02	0.00	6.33	2.00	0.00	0.00	0.02	0.00
6.35	2.00	0.00	0.00	0.02	0.00	6.37	2.00	0.00	0.00	0.02	0.00
6.39	2.00	0.00	0.00	0.02	0.00	6.41	2.00	0.00	0.00	0.02	0.00
6.43	2.00	0.00	0.00	0.02	0.00	6.45	2.00	0.00	0.00	0.02	0.00
6.47	2.00	0.00	0.00	0.02	0.00	6.49	2.00	0.00	0.00	0.02	0.00
6.51	2.00	0.00	0.00	0.02	0.00	6.53	2.00	0.00	0.00	0.02	0.00
6.55	2.00	0.00	0.00	0.02	0.00	6.57	2.00	0.00	0.00	0.02	0.00
6.59	2.00	0.00	0.00	0.02	0.00	6.61	2.00	0.00	0.00	0.02	0.00
6.63	2.00	0.00	0.00	0.02	0.00	6.65	2.00	0.00	0.00	0.02	0.00
6.67	2.00	0.00	0.00	0.02	0.00	6.69	2.00	0.00	0.00	0.02	0.00
6.71	2.00	0.00	0.00	0.02	0.00	6.73	2.00	0.00	0.00	0.02	0.00
6.75	2.00	0.00	0.00	0.02	0.00	6.77	2.00	0.00	0.00	0.02	0.00
6.79	2.00	0.00	0.00	0.02	0.00	6.81	2.00	0.00	0.00	0.02	0.00
6.83	2.00	0.00	0.00	0.02	0.00	6.85	2.00	0.00	0.00	0.02	0.00
6.87	2.00	0.00	0.00	0.02	0.00	6.89	2.00	0.00	0.00	0.02	0.00
6.91	2.00	0.00	0.00	0.02	0.00	6.93	2.00	0.00	0.00	0.02	0.00
6.95	2.00	0.00	0.00	0.02	0.00	6.97	2.00	0.00	0.00	0.02	0.00
6.99	2.00	0.00	0.00	0.02	0.00	7.01	2.00	0.00	0.00	0.02	0.00
7.03	2.00	0.00	0.00	0.02	0.00	7.05	2.00	0.00	0.00	0.02	0.00
7.07	2.00	0.00	0.00	0.02	0.00	7.09	2.00	0.00	0.00	0.02	0.00
7.11	2.00	0.00	0.00	0.02	0.00	7.13	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
7.15	2.00	0.00	0.00	0.02	0.00	7.17	2.00	0.00	0.00	0.02	0.00
7.19	2.00	0.00	0.00	0.02	0.00	7.21	2.00	0.00	0.00	0.02	0.00
7.23	2.00	0.00	0.00	0.02	0.00	7.25	2.00	0.00	0.00	0.02	0.00
7.27	2.00	0.00	0.00	0.02	0.00	7.29	2.00	0.00	0.00	0.02	0.00
7.31	2.00	0.00	0.00	0.02	0.00	7.33	2.00	0.00	0.00	0.02	0.00
7.35	2.00	0.00	0.00	0.02	0.00	7.37	2.00	0.00	0.00	0.02	0.00
7.39	2.00	0.00	0.00	0.02	0.00	7.41	2.00	0.00	0.00	0.02	0.00
7.43	2.00	0.00	0.00	0.02	0.00	7.45	2.00	0.00	0.00	0.02	0.00
7.47	2.00	0.00	0.00	0.02	0.00	7.49	2.00	0.00	0.00	0.02	0.00
7.51	2.00	0.00	0.00	0.02	0.00	7.53	2.00	0.00	0.00	0.02	0.00
7.55	2.00	0.00	0.00	0.02	0.00	7.57	2.00	0.00	0.00	0.02	0.00
7.59	2.00	0.00	0.00	0.02	0.00	7.61	2.00	0.00	0.00	0.02	0.00
7.63	2.00	0.00	0.00	0.02	0.00	7.65	2.00	0.00	0.00	0.02	0.00
7.67	2.00	0.00	0.00	0.02	0.00	7.69	2.00	0.00	0.00	0.02	0.00
7.71	2.00	0.00	0.00	0.02	0.00	7.73	2.00	0.00	0.00	0.02	0.00
7.75	2.00	0.00	0.00	0.02	0.00	7.77	2.00	0.00	0.00	0.02	0.00
7.79	2.00	0.00	0.00	0.02	0.00	7.81	2.00	0.00	0.00	0.02	0.00
7.83	2.00	0.00	0.00	0.02	0.00	7.85	2.00	0.00	0.00	0.02	0.00
7.87	2.00	0.00	0.00	0.02	0.00	7.89	2.00	0.00	0.00	0.02	0.00
7.91	2.00	0.00	0.00	0.02	0.00	7.93	2.00	0.00	0.00	0.02	0.00
7.95	2.00	0.00	0.00	0.02	0.00	7.97	2.00	0.00	0.00	0.02	0.00
7.99	2.00	0.00	0.00	0.02	0.00	8.01	2.00	0.00	0.00	0.02	0.00
8.03	2.00	0.00	0.00	0.02	0.00	8.05	2.00	0.00	0.00	0.02	0.00
8.07	2.00	0.00	0.00	0.02	0.00	8.09	2.00	0.00	0.00	0.02	0.00
8.11	2.00	0.00	0.00	0.02	0.00	8.13	2.00	0.00	0.00	0.02	0.00
8.15	2.00	0.00	0.00	0.02	0.00	8.17	2.00	0.00	0.00	0.02	0.00
8.19	2.00	0.00	0.00	0.02	0.00	8.21	2.00	0.00	0.00	0.02	0.00
8.23	2.00	0.00	0.00	0.02	0.00	8.25	2.00	0.00	0.00	0.02	0.00
8.27	2.00	0.00	0.00	0.02	0.00	8.29	2.00	0.00	0.00	0.02	0.00
8.31	2.00	0.00	0.00	0.02	0.00	8.33	2.00	0.00	0.00	0.02	0.00
8.35	2.00	0.00	0.00	0.02	0.00	8.37	2.00	0.00	0.00	0.02	0.00
8.39	2.00	0.00	0.00	0.02	0.00	8.41	2.00	0.00	0.00	0.02	0.00
8.43	2.00	0.00	0.00	0.02	0.00	8.45	2.00	0.00	0.00	0.02	0.00
8.47	2.00	0.00	0.00	0.02	0.00	8.49	2.00	0.00	0.00	0.02	0.00
8.51	2.00	0.00	0.00	0.02	0.00	8.53	2.00	0.00	0.00	0.02	0.00
8.55	2.00	0.00	0.00	0.02	0.00	8.57	2.00	0.00	0.00	0.02	0.00
8.59	2.00	0.00	0.00	0.02	0.00	8.61	2.00	0.00	0.00	0.02	0.00
8.63	2.00	0.00	0.00	0.02	0.00	8.65	2.00	0.00	0.00	0.02	0.00
8.67	2.00	0.00	0.00	0.02	0.00	8.69	2.00	0.00	0.00	0.02	0.00
8.71	2.00	0.00	0.00	0.02	0.00	8.73	2.00	0.00	0.00	0.02	0.00
8.75	2.00	0.00	0.00	0.02	0.00	8.77	2.00	0.00	0.00	0.02	0.00
8.79	2.00	0.00	0.00	0.02	0.00	8.81	2.00	0.00	0.00	0.02	0.00
8.83	2.00	0.00	0.00	0.02	0.00	8.85	2.00	0.00	0.00	0.02	0.00
8.87	2.00	0.00	0.00	0.02	0.00	8.89	2.00	0.00	0.00	0.02	0.00
8.91	2.00	0.00	0.00	0.02	0.00	8.93	2.00	0.00	0.00	0.02	0.00
8.95	2.00	0.00	0.00	0.02	0.00	8.97	2.00	0.00	0.00	0.02	0.00
8.99	2.00	0.00	0.00	0.02	0.00	9.01	2.00	0.00	0.00	0.02	0.00
9.03	2.00	0.00	0.00	0.02	0.00	9.05	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
9.07	2.00	0.00	0.00	0.02	0.00	9.09	2.00	0.00	0.00	0.02	0.00
9.11	2.00	0.00	0.00	0.02	0.00	9.13	2.00	0.00	0.00	0.02	0.00
9.15	2.00	0.00	0.00	0.02	0.00	9.17	2.00	0.00	0.00	0.02	0.00
9.19	2.00	0.00	0.00	0.02	0.00	9.21	2.00	0.00	0.00	0.02	0.00
9.23	2.00	0.00	0.00	0.02	0.00	9.25	2.00	0.00	0.00	0.02	0.00
9.27	2.00	0.00	0.00	0.02	0.00	9.29	2.00	0.00	0.00	0.02	0.00
9.31	2.00	0.00	0.00	0.02	0.00	9.33	2.00	0.00	0.00	0.02	0.00
9.35	2.00	0.00	0.00	0.02	0.00	9.37	2.00	0.00	0.00	0.02	0.00
9.39	2.00	0.00	0.00	0.02	0.00	9.41	2.00	0.00	0.00	0.02	0.00
9.43	2.00	0.00	0.00	0.02	0.00	9.45	2.00	0.00	0.00	0.02	0.00
9.47	2.00	0.00	0.00	0.02	0.00	9.49	2.00	0.00	0.00	0.02	0.00
9.51	2.00	0.00	0.00	0.02	0.00	9.53	2.00	0.00	0.00	0.02	0.00
9.55	2.00	0.00	0.00	0.02	0.00	9.57	2.00	0.00	0.00	0.02	0.00
9.59	2.00	0.00	0.00	0.02	0.00	9.61	2.00	0.00	0.00	0.02	0.00
9.63	2.00	0.00	0.00	0.02	0.00	9.65	2.00	0.00	0.00	0.02	0.00
9.67	2.00	0.00	0.00	0.02	0.00	9.69	2.00	0.00	0.00	0.02	0.00
9.71	2.00	0.00	0.00	0.02	0.00	9.73	2.00	0.00	0.00	0.02	0.00
9.75	2.00	0.00	0.00	0.02	0.00	9.77	2.00	0.00	0.00	0.02	0.00
9.79	2.00	0.00	0.00	0.02	0.00	9.81	2.00	0.00	0.00	0.02	0.00
9.83	2.00	0.00	0.00	0.02	0.00	9.85	2.00	0.00	0.00	0.02	0.00
9.87	2.00	0.00	0.00	0.02	0.00	9.89	2.00	0.00	0.00	0.02	0.00
9.91	2.00	0.00	0.00	0.02	0.00	9.93	2.00	0.00	0.00	0.02	0.00
9.95	2.00	0.00	0.00	0.02	0.00	9.97	2.00	0.00	0.00	0.02	0.00
9.99	2.00	0.00	0.00	0.02	0.00	10.01	2.00	0.00	0.00	0.02	0.00
10.03	2.00	0.00	0.00	0.02	0.00	10.05	2.00	0.00	0.00	0.02	0.00
10.07	2.00	0.00	0.00	0.02	0.00	10.09	2.00	0.00	0.00	0.02	0.00
10.11	2.00	0.00	0.00	0.02	0.00	10.13	2.00	0.00	0.00	0.02	0.00
10.15	2.00	0.00	0.00	0.02	0.00	10.17	2.00	0.00	0.00	0.02	0.00
10.19	2.00	0.00	0.00	0.02	0.00	10.21	2.00	0.00	0.00	0.02	0.00
10.23	2.00	0.00	0.00	0.02	0.00	10.25	2.00	0.00	0.00	0.02	0.00
10.27	2.00	0.00	0.00	0.02	0.00	10.29	2.00	0.00	0.00	0.02	0.00
10.31	2.00	0.00	0.00	0.02	0.00	10.33	2.00	0.00	0.00	0.02	0.00
10.35	2.00	0.00	0.00	0.02	0.00	10.37	2.00	0.00	0.00	0.02	0.00
10.39	2.00	0.00	0.00	0.02	0.00	10.41	2.00	0.00	0.00	0.02	0.00
10.43	2.00	0.00	0.00	0.02	0.00	10.45	2.00	0.00	0.00	0.02	0.00
10.47	2.00	0.00	0.00	0.02	0.00	10.49	2.00	0.00	0.00	0.02	0.00
10.51	2.00	0.00	0.00	0.02	0.00	10.53	2.00	0.00	0.00	0.02	0.00
10.55	2.00	0.00	0.00	0.02	0.00	10.57	2.00	0.00	0.00	0.02	0.00
10.59	2.00	0.00	0.00	0.02	0.00	10.61	2.00	0.00	0.00	0.02	0.00
10.63	2.00	0.00	0.00	0.02	0.00	10.65	2.00	0.00	0.00	0.02	0.00
10.67	2.00	0.00	0.00	0.02	0.00	10.69	2.00	0.00	0.00	0.02	0.00
10.71	2.00	0.00	0.00	0.02	0.00	10.73	2.00	0.00	0.00	0.02	0.00
10.75	2.00	0.00	0.00	0.02	0.00	10.77	2.00	0.00	0.00	0.02	0.00
10.79	2.00	0.00	0.00	0.02	0.00	10.81	2.00	0.00	0.00	0.02	0.00
10.83	2.00	0.00	0.00	0.02	0.00	10.85	2.00	0.00	0.00	0.02	0.00
10.87	2.00	0.00	0.00	0.02	0.00	10.89	2.00	0.00	0.00	0.02	0.00
10.91	2.00	0.00	0.00	0.02	0.00	10.93	2.00	0.00	0.00	0.02	0.00
10.95	2.00	0.00	0.00	0.02	0.00	10.97	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
10.99	2.00	0.00	0.00	0.02	0.00	11.01	2.00	0.00	0.00	0.02	0.00
11.03	2.00	0.00	0.00	0.02	0.00	11.05	2.00	0.00	0.00	0.02	0.00
11.07	2.00	0.00	0.00	0.02	0.00	11.09	2.00	0.00	0.00	0.02	0.00
11.11	2.00	0.00	0.00	0.02	0.00	11.13	2.00	0.00	0.00	0.02	0.00
11.15	2.00	0.00	0.00	0.02	0.00	11.17	2.00	0.00	0.00	0.02	0.00
11.19	2.00	0.00	0.00	0.02	0.00	11.21	2.00	0.00	0.00	0.02	0.00
11.23	2.00	0.00	0.00	0.02	0.00	11.25	2.00	0.00	0.00	0.02	0.00
11.27	2.00	0.00	0.00	0.02	0.00	11.29	2.00	0.00	0.00	0.02	0.00
11.31	2.00	0.00	0.00	0.02	0.00	11.33	2.00	0.00	0.00	0.02	0.00
11.35	2.00	0.00	0.00	0.02	0.00	11.37	2.00	0.00	0.00	0.02	0.00
11.39	2.00	0.00	0.00	0.02	0.00	11.41	2.00	0.00	0.00	0.02	0.00
11.43	2.00	0.00	0.00	0.02	0.00	11.45	2.00	0.00	0.00	0.02	0.00
11.47	2.00	0.00	0.00	0.02	0.00	11.49	2.00	0.00	0.00	0.02	0.00
11.51	2.00	0.00	0.00	0.02	0.00	11.53	2.00	0.00	0.00	0.02	0.00
11.55	2.00	0.00	0.00	0.02	0.00	11.57	2.00	0.00	0.00	0.02	0.00
11.59	2.00	0.00	0.00	0.02	0.00	11.61	2.00	0.00	0.00	0.02	0.00
11.63	2.00	0.00	0.00	0.02	0.00	11.65	2.00	0.00	0.00	0.02	0.00
11.67	2.00	0.00	0.00	0.02	0.00	11.69	2.00	0.00	0.00	0.02	0.00
11.71	2.00	0.00	0.00	0.02	0.00	11.73	2.00	0.00	0.00	0.02	0.00
11.75	2.00	0.00	0.00	0.02	0.00	11.77	2.00	0.00	0.00	0.02	0.00
11.79	2.00	0.00	0.00	0.02	0.00	11.81	2.00	0.00	0.00	0.02	0.00
11.83	2.00	0.00	0.00	0.02	0.00	11.85	2.00	0.00	0.00	0.02	0.00
11.87	2.00	0.00	0.00	0.02	0.00	11.89	2.00	0.00	0.00	0.02	0.00
11.91	2.00	0.00	0.00	0.02	0.00	11.93	2.00	0.00	0.00	0.02	0.00
11.95	2.00	0.00	0.00	0.02	0.00	11.97	2.00	0.00	0.00	0.02	0.00
11.99	2.00	0.00	0.00	0.02	0.00	12.01	2.00	0.00	0.00	0.02	0.00
12.03	2.00	0.00	0.00	0.02	0.00	12.05	2.00	0.00	0.00	0.02	0.00
12.07	2.00	0.00	0.00	0.02	0.00	12.09	2.00	0.00	0.00	0.02	0.00
12.11	2.00	0.00	0.00	0.02	0.00	12.13	2.00	0.00	0.00	0.02	0.00
12.15	2.00	0.00	0.00	0.02	0.00	12.17	2.00	0.00	0.00	0.02	0.00
12.19	2.00	0.00	0.00	0.02	0.00	12.21	2.00	0.00	0.00	0.02	0.00
12.23	2.00	0.00	0.00	0.02	0.00	12.25	2.00	0.00	0.00	0.02	0.00
12.27	2.00	0.00	0.00	0.02	0.00	12.29	2.00	0.00	0.00	0.02	0.00
12.31	2.00	0.00	0.00	0.02	0.00	12.33	2.00	0.00	0.00	0.02	0.00
12.35	2.00	0.00	0.00	0.02	0.00	12.37	2.00	0.00	0.00	0.02	0.00
12.39	2.00	0.00	0.00	0.02	0.00	12.41	2.00	0.00	0.00	0.02	0.00
12.43	2.00	0.00	0.00	0.02	0.00	12.45	2.00	0.00	0.00	0.02	0.00
12.47	2.00	0.00	0.00	0.02	0.00	12.49	2.00	0.00	0.00	0.02	0.00
12.51	2.00	0.00	0.00	0.02	0.00	12.53	2.00	0.00	0.00	0.02	0.00
12.55	2.00	0.00	0.00	0.02	0.00	12.57	2.00	0.00	0.00	0.02	0.00
12.59	2.00	0.00	0.00	0.02	0.00	12.61	2.00	0.00	0.00	0.02	0.00
12.63	2.00	0.00	0.00	0.02	0.00	12.65	2.00	0.00	0.00	0.02	0.00
12.67	2.00	0.00	0.00	0.02	0.00	12.69	2.00	0.00	0.00	0.02	0.00
12.71	2.00	0.00	0.00	0.02	0.00	12.73	2.00	0.00	0.00	0.02	0.00
12.75	2.00	0.00	0.00	0.02	0.00	12.77	2.00	0.00	0.00	0.02	0.00
12.79	2.00	0.00	0.00	0.02	0.00	12.81	2.00	0.00	0.00	0.02	0.00
12.83	2.00	0.00	0.00	0.02	0.00	12.85	2.00	0.00	0.00	0.02	0.00
12.87	2.00	0.00	0.00	0.02	0.00	12.89	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
12.91	2.00	0.00	0.00	0.02	0.00	12.93	2.00	0.00	0.00	0.02	0.00
12.95	2.00	0.00	0.00	0.02	0.00	12.97	2.00	0.00	0.00	0.02	0.00
12.99	2.00	0.00	0.00	0.02	0.00	13.01	2.00	0.00	0.00	0.02	0.00
13.03	2.00	0.00	0.00	0.02	0.00	13.05	2.00	0.00	0.00	0.02	0.00
13.07	2.00	0.00	0.00	0.02	0.00	13.09	2.00	0.00	0.00	0.02	0.00
13.11	2.00	0.00	0.00	0.02	0.00	13.13	2.00	0.00	0.00	0.02	0.00
13.15	2.00	0.00	0.00	0.02	0.00	13.17	2.00	0.00	0.00	0.02	0.00
13.19	2.00	0.00	0.00	0.02	0.00	13.21	2.00	0.00	0.00	0.02	0.00
13.23	2.00	0.00	0.00	0.02	0.00	13.25	2.00	0.00	0.00	0.02	0.00
13.27	2.00	0.00	0.00	0.02	0.00	13.29	2.00	0.00	0.00	0.02	0.00
13.31	2.00	0.00	0.00	0.02	0.00	13.33	2.00	0.00	0.00	0.02	0.00
13.35	2.00	0.00	0.00	0.02	0.00	13.37	2.00	0.00	0.00	0.02	0.00
13.39	2.00	0.00	0.00	0.02	0.00	13.41	2.00	0.00	0.00	0.02	0.00
13.43	2.00	0.00	0.00	0.02	0.00	13.45	2.00	0.00	0.00	0.02	0.00
13.47	2.00	0.00	0.00	0.02	0.00	13.49	2.00	0.00	0.00	0.02	0.00
13.51	2.00	0.00	0.00	0.02	0.00	13.53	2.00	0.00	0.00	0.02	0.00
13.55	2.00	0.00	0.00	0.02	0.00	13.57	2.00	0.00	0.00	0.02	0.00
13.59	2.00	0.00	0.00	0.02	0.00	13.61	2.00	0.00	0.00	0.02	0.00
13.63	2.00	0.00	0.00	0.02	0.00	13.65	2.00	0.00	0.00	0.02	0.00
13.67	2.00	0.00	0.00	0.02	0.00	13.69	2.00	0.00	0.00	0.02	0.00
13.71	2.00	0.00	0.00	0.02	0.00	13.73	2.00	0.00	0.00	0.02	0.00
13.75	2.00	0.00	0.00	0.02	0.00	13.77	2.00	0.00	0.00	0.02	0.00
13.79	2.00	0.00	0.00	0.02	0.00	13.81	2.00	0.00	0.00	0.02	0.00
13.83	2.00	0.00	0.00	0.02	0.00	13.85	2.00	0.00	0.00	0.02	0.00
13.87	2.00	0.00	0.00	0.02	0.00	13.89	2.00	0.00	0.00	0.02	0.00
13.91	2.00	0.00	0.00	0.02	0.00	13.93	2.00	0.00	0.00	0.02	0.00
13.95	2.00	0.00	0.00	0.02	0.00	13.97	2.00	0.00	0.00	0.02	0.00
13.99	2.00	0.00	0.00	0.02	0.00	14.01	2.00	0.00	0.00	0.02	0.00
14.03	2.00	0.00	0.00	0.02	0.00	14.05	2.00	0.00	0.00	0.02	0.00
14.07	2.00	0.00	0.00	0.02	0.00	14.09	2.00	0.00	0.00	0.02	0.00
14.11	2.00	0.00	0.00	0.02	0.00	14.13	2.00	0.00	0.00	0.02	0.00
14.15	2.00	0.00	0.00	0.02	0.00	14.17	2.00	0.00	0.00	0.02	0.00
14.19	2.00	0.00	0.00	0.02	0.00	14.21	2.00	0.00	0.00	0.02	0.00
14.23	2.00	0.00	0.00	0.02	0.00	14.25	2.00	0.00	0.00	0.02	0.00
14.27	2.00	0.00	0.00	0.02	0.00	14.29	2.00	0.00	0.00	0.02	0.00
14.31	2.00	0.00	0.00	0.02	0.00	14.33	2.00	0.00	0.00	0.02	0.00
14.35	2.00	0.00	0.00	0.02	0.00	14.37	2.00	0.00	0.00	0.02	0.00
14.39	2.00	0.00	0.00	0.02	0.00	14.41	2.00	0.00	0.00	0.02	0.00
14.43	2.00	0.00	0.00	0.02	0.00	14.45	2.00	0.00	0.00	0.02	0.00
14.47	2.00	0.00	0.00	0.02	0.00	14.49	2.00	0.00	0.00	0.02	0.00
14.51	2.00	0.00	0.00	0.02	0.00	14.53	2.00	0.00	0.00	0.02	0.00
14.55	2.00	0.00	0.00	0.02	0.00	14.57	2.00	0.00	0.00	0.02	0.00
14.59	2.00	0.00	0.00	0.02	0.00	14.61	2.00	0.00	0.00	0.02	0.00
14.63	2.00	0.00	0.00	0.02	0.00	14.65	2.00	0.00	0.00	0.02	0.00
14.67	2.00	0.00	0.00	0.02	0.00	14.69	2.00	0.00	0.00	0.02	0.00
14.71	2.00	0.00	0.00	0.02	0.00	14.73	2.00	0.00	0.00	0.02	0.00
14.75	2.00	0.00	0.00	0.02	0.00	14.77	2.00	0.00	0.00	0.02	0.00
14.79	2.00	0.00	0.00	0.02	0.00	14.81	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
14.83	2.00	0.00	0.00	0.02	0.00	14.85	2.00	0.00	0.00	0.02	0.00
14.87	2.00	0.00	0.00	0.02	0.00	14.89	2.00	0.00	0.00	0.02	0.00
14.91	2.00	0.00	0.00	0.02	0.00	14.93	2.00	0.00	0.00	0.02	0.00
14.95	2.00	0.00	0.00	0.02	0.00	14.97	2.00	0.00	0.00	0.02	0.00
14.99	2.00	0.00	0.00	0.02	0.00	15.01	2.00	0.00	0.00	0.02	0.00
15.03	2.00	0.00	0.00	0.02	0.00	15.05	2.00	0.00	0.00	0.02	0.00
15.07	2.00	0.00	0.00	0.02	0.00	15.09	2.00	0.00	0.00	0.02	0.00
15.11	2.00	0.00	0.00	0.02	0.00	15.13	2.00	0.00	0.00	0.02	0.00
15.15	2.00	0.00	0.00	0.02	0.00	15.17	2.00	0.00	0.00	0.02	0.00
15.19	2.00	0.00	0.00	0.02	0.00	15.21	2.00	0.00	0.00	0.02	0.00
15.23	2.00	0.00	0.00	0.02	0.00	15.25	2.00	0.00	0.00	0.02	0.00
15.27	2.00	0.00	0.00	0.02	0.00	15.29	2.00	0.00	0.00	0.02	0.00
15.31	2.00	0.00	0.00	0.02	0.00	15.33	2.00	0.00	0.00	0.02	0.00
15.35	2.00	0.00	0.00	0.02	0.00	15.37	2.00	0.00	0.00	0.02	0.00
15.39	2.00	0.00	0.00	0.02	0.00	15.41	2.00	0.00	0.00	0.02	0.00
15.43	2.00	0.00	0.00	0.02	0.00	15.45	2.00	0.00	0.00	0.02	0.00
15.47	2.00	0.00	0.00	0.02	0.00	15.49	2.00	0.00	0.00	0.02	0.00
15.51	2.00	0.00	0.00	0.02	0.00	15.53	2.00	0.00	0.00	0.02	0.00
15.55	2.00	0.00	0.00	0.02	0.00	15.57	2.00	0.00	0.00	0.02	0.00
15.59	2.00	0.00	0.00	0.02	0.00	15.61	2.00	0.00	0.00	0.02	0.00
15.63	2.00	0.00	0.00	0.02	0.00	15.65	2.00	0.00	0.00	0.02	0.00
15.67	2.00	0.00	0.00	0.02	0.00	15.69	2.00	0.00	0.00	0.02	0.00
15.71	2.00	0.00	0.00	0.02	0.00	15.73	2.00	0.00	0.00	0.02	0.00
15.75	2.00	0.00	0.00	0.02	0.00	15.77	2.00	0.00	0.00	0.02	0.00
15.79	2.00	0.00	0.00	0.02	0.00	15.81	2.00	0.00	0.00	0.02	0.00
15.83	2.00	0.00	0.00	0.02	0.00	15.85	2.00	0.00	0.00	0.02	0.00
15.87	2.00	0.00	0.00	0.02	0.00	15.89	2.00	0.00	0.00	0.02	0.00
15.91	2.00	0.00	0.00	0.02	0.00	15.93	2.00	0.00	0.00	0.02	0.00
15.95	2.00	0.00	0.00	0.02	0.00	15.97	2.00	0.00	0.00	0.02	0.00
15.99	2.00	0.00	0.00	0.02	0.00	16.01	2.00	0.00	0.00	0.02	0.00
16.03	2.00	0.00	0.00	0.02	0.00	16.05	2.00	0.00	0.00	0.02	0.00
16.07	2.00	0.00	0.00	0.02	0.00	16.09	2.00	0.00	0.00	0.02	0.00
16.11	2.00	0.00	0.00	0.02	0.00	16.13	2.00	0.00	0.00	0.02	0.00
16.15	2.00	0.00	0.00	0.02	0.00	16.17	2.00	0.00	0.00	0.02	0.00
16.19	2.00	0.00	0.00	0.02	0.00	16.21	2.00	0.00	0.00	0.02	0.00
16.23	2.00	0.00	0.00	0.02	0.00	16.25	2.00	0.00	0.00	0.02	0.00
16.27	2.00	0.00	0.00	0.02	0.00	16.29	2.00	0.00	0.00	0.02	0.00
16.31	2.00	0.00	0.00	0.02	0.00	16.33	2.00	0.00	0.00	0.02	0.00
16.35	2.00	0.00	0.00	0.02	0.00	16.37	2.00	0.00	0.00	0.02	0.00
16.39	2.00	0.00	0.00	0.02	0.00	16.41	2.00	0.00	0.00	0.02	0.00
16.43	2.00	0.00	0.00	0.02	0.00	16.45	2.00	0.00	0.00	0.02	0.00
16.47	2.00	0.00	0.00	0.02	0.00	16.49	2.00	0.00	0.00	0.02	0.00
16.51	2.00	0.00	0.00	0.02	0.00	16.53	2.00	0.00	0.00	0.02	0.00
16.55	2.00	0.00	0.00	0.02	0.00	16.57	2.00	0.00	0.00	0.02	0.00
16.59	2.00	0.00	0.00	0.02	0.00	16.61	2.00	0.00	0.00	0.02	0.00
16.63	2.00	0.00	0.00	0.02	0.00	16.65	2.00	0.00	0.00	0.02	0.00
16.67	2.00	0.00	0.00	0.02	0.00	16.69	2.00	0.00	0.00	0.02	0.00
16.71	2.00	0.00	0.00	0.02	0.00	16.73	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
16.75	2.00	0.00	0.00	0.02	0.00	16.77	2.00	0.00	0.00	0.02	0.00
16.79	2.00	0.00	0.00	0.02	0.00	16.81	2.00	0.00	0.00	0.02	0.00
16.83	2.00	0.00	0.00	0.02	0.00	16.85	2.00	0.00	0.00	0.02	0.00
16.87	2.00	0.00	0.00	0.02	0.00	16.89	2.00	0.00	0.00	0.02	0.00
16.91	2.00	0.00	0.00	0.02	0.00	16.93	2.00	0.00	0.00	0.02	0.00
16.95	2.00	0.00	0.00	0.02	0.00	16.97	2.00	0.00	0.00	0.02	0.00
16.99	2.00	0.00	0.00	0.02	0.00	17.01	2.00	0.00	0.00	0.02	0.00
17.03	2.00	0.00	0.00	0.02	0.00	17.05	2.00	0.00	0.00	0.02	0.00
17.07	2.00	0.00	0.00	0.02	0.00	17.09	2.00	0.00	0.00	0.02	0.00
17.11	2.00	0.00	0.00	0.02	0.00	17.13	2.00	0.00	0.00	0.02	0.00
17.15	2.00	0.00	0.00	0.02	0.00	17.17	2.00	0.00	0.00	0.02	0.00
17.19	2.00	0.00	0.00	0.02	0.00	17.21	2.00	0.00	0.00	0.02	0.00
17.23	2.00	0.00	0.00	0.02	0.00	17.25	2.00	0.00	0.00	0.02	0.00
17.27	2.00	0.00	0.00	0.02	0.00	17.29	2.00	0.00	0.00	0.02	0.00
17.31	2.00	0.00	0.00	0.02	0.00	17.33	2.00	0.00	0.00	0.02	0.00
17.35	2.00	0.00	0.00	0.02	0.00	17.37	2.00	0.00	0.00	0.02	0.00
17.39	2.00	0.00	0.00	0.02	0.00	17.41	2.00	0.00	0.00	0.02	0.00
17.43	2.00	0.00	0.00	0.02	0.00	17.45	2.00	0.00	0.00	0.02	0.00
17.47	2.00	0.00	0.00	0.02	0.00	17.49	2.00	0.00	0.00	0.02	0.00
17.51	2.00	0.00	0.00	0.02	0.00	17.53	2.00	0.00	0.00	0.02	0.00
17.55	2.00	0.00	0.00	0.02	0.00	17.57	2.00	0.00	0.00	0.02	0.00
17.59	2.00	0.00	0.00	0.02	0.00	17.61	2.00	0.00	0.00	0.02	0.00
17.63	2.00	0.00	0.00	0.02	0.00	17.65	2.00	0.00	0.00	0.02	0.00
17.67	2.00	0.00	0.00	0.02	0.00	17.69	2.00	0.00	0.00	0.02	0.00
17.71	2.00	0.00	0.00	0.02	0.00	17.73	2.00	0.00	0.00	0.02	0.00
17.75	2.00	0.00	0.00	0.02	0.00	17.77	2.00	0.00	0.00	0.02	0.00
17.79	2.00	0.00	0.00	0.02	0.00	17.81	2.00	0.00	0.00	0.02	0.00
17.83	2.00	0.00	0.00	0.02	0.00	17.85	2.00	0.00	0.00	0.02	0.00
17.87	2.00	0.00	0.00	0.02	0.00	17.89	2.00	0.00	0.00	0.02	0.00
17.91	2.00	0.00	0.00	0.02	0.00	17.93	2.00	0.00	0.00	0.02	0.00
17.95	2.00	0.00	0.00	0.02	0.00	17.97	2.00	0.00	0.00	0.02	0.00
17.99	2.00	0.00	0.00	0.02	0.00	18.01	2.00	0.00	0.00	0.02	0.00
18.03	2.00	0.00	0.00	0.02	0.00	18.05	2.00	0.00	0.00	0.02	0.00
18.07	2.00	0.00	0.00	0.02	0.00	18.09	2.00	0.00	0.00	0.02	0.00
18.11	2.00	0.00	0.00	0.02	0.00	18.13	2.00	0.00	0.00	0.02	0.00
18.15	2.00	0.00	0.00	0.02	0.00	18.17	2.00	0.00	0.00	0.02	0.00
18.19	2.00	0.00	0.00	0.02	0.00	18.21	2.00	0.00	0.00	0.02	0.00
18.23	2.00	0.00	0.00	0.02	0.00	18.25	2.00	0.00	0.00	0.02	0.00
18.27	2.00	0.00	0.00	0.02	0.00	18.29	2.00	0.00	0.00	0.02	0.00
18.31	2.00	0.00	0.00	0.02	0.00	18.33	2.00	0.00	0.00	0.02	0.00
18.35	2.00	0.00	0.00	0.02	0.00	18.37	2.00	0.00	0.00	0.02	0.00
18.39	2.00	0.00	0.00	0.02	0.00	18.41	2.00	0.00	0.00	0.02	0.00
18.43	2.00	0.00	0.00	0.02	0.00	18.45	2.00	0.00	0.00	0.02	0.00
18.47	2.00	0.00	0.00	0.02	0.00	18.49	2.00	0.00	0.00	0.02	0.00
18.51	2.00	0.00	0.00	0.02	0.00	18.53	2.00	0.00	0.00	0.02	0.00
18.55	2.00	0.00	0.00	0.02	0.00	18.57	2.00	0.00	0.00	0.02	0.00
18.59	2.00	0.00	0.00	0.02	0.00						

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI

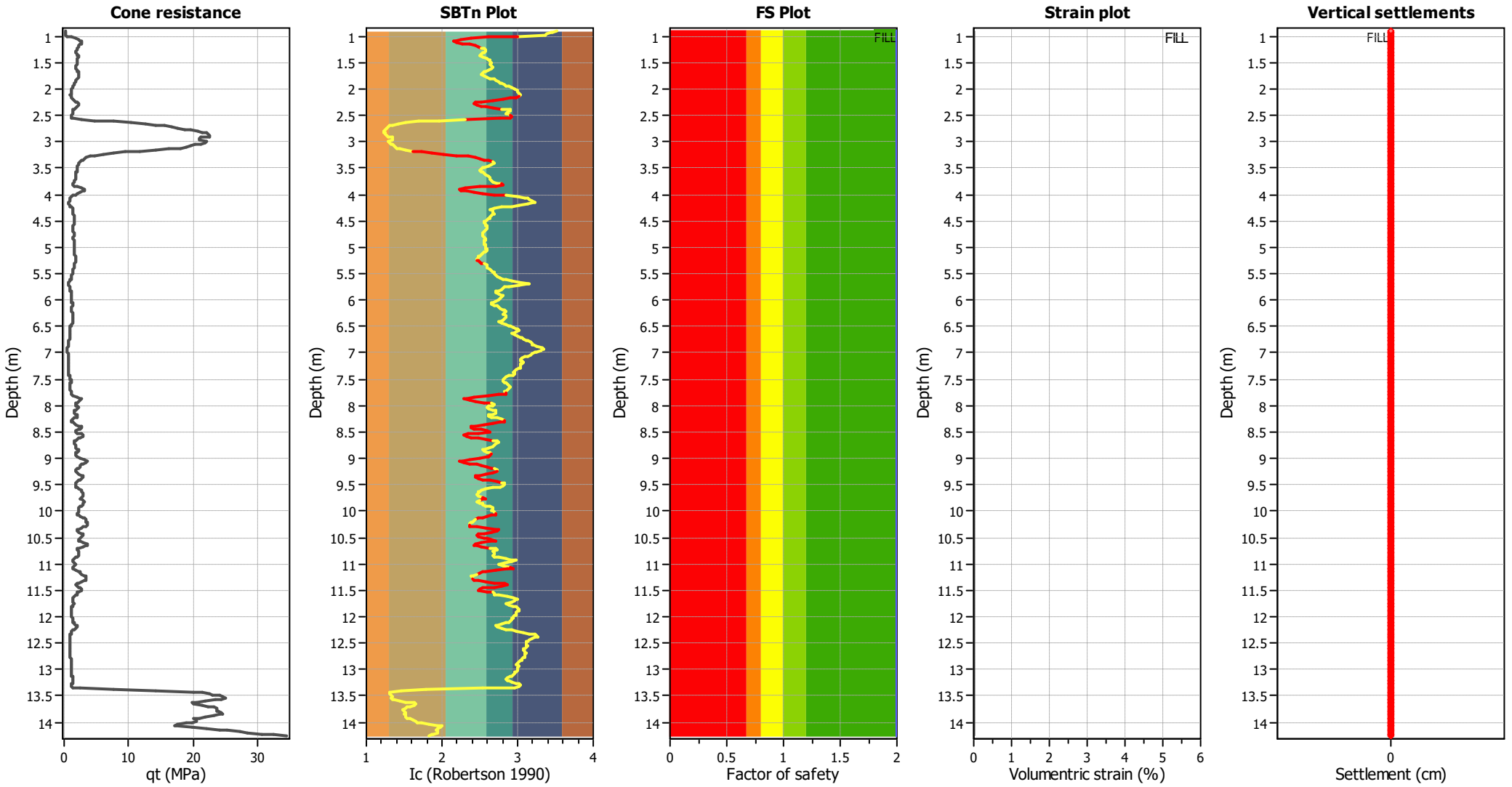
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
5.23	82.29	2.00	0.00	0.71	0.00	5.25	92.03	2.00	0.00	0.71	0.00
5.27	95.55	2.00	0.00	0.71	0.00	5.29	98.38	2.00	0.00	0.71	0.00
5.31	92.99	2.00	0.00	0.70	0.00	5.33	88.51	2.00	0.00	0.70	0.00
5.35	125.21	2.00	0.00	0.70	0.00	5.37	74.64	2.00	0.00	0.70	0.00
5.39	76.46	2.00	0.00	0.70	0.00	5.41	78.80	2.00	0.00	0.70	0.00
5.43	82.54	2.00	0.00	0.70	0.00	5.45	87.02	2.00	0.00	0.70	0.00
5.47	94.69	2.00	0.00	0.70	0.00	5.49	104.73	2.00	0.00	0.69	0.00
5.51	114.91	2.00	0.00	0.69	0.00	5.53	122.35	2.00	0.00	0.69	0.00
5.55	136.53	2.00	0.00	0.69	0.00	5.57	168.99	2.00	0.00	0.69	0.00
5.59	183.12	2.00	0.00	0.69	0.00	5.61	168.42	2.00	0.00	0.69	0.00
5.63	156.60	2.00	0.00	0.69	0.00	5.65	139.61	2.00	0.00	0.69	0.00
5.67	123.06	2.00	0.00	0.69	0.00	5.69	113.44	2.00	0.00	0.68	0.00
5.71	120.17	2.00	0.00	0.68	0.00	5.73	142.58	2.00	0.00	0.68	0.00
5.75	198.55	2.00	0.00	0.68	0.00	5.77	237.85	2.00	0.00	0.68	0.00
5.79	268.11	2.00	0.00	0.68	0.00	5.81	264.31	2.00	0.00	0.68	0.00
5.83	279.99	2.00	0.00	0.68	0.00	5.85	268.57	2.00	0.00	0.68	0.00
5.87	263.73	2.00	0.00	0.67	0.00	5.89	261.15	2.00	0.00	0.67	0.00
5.91	296.42	2.00	0.00	0.67	0.00	5.93	295.38	2.00	0.00	0.67	0.00
5.95	275.61	2.00	0.00	0.67	0.00	5.97	228.93	2.00	0.00	0.67	0.00
5.99	198.61	2.00	0.00	0.67	0.00	6.01	179.41	2.00	0.00	0.67	0.00
6.03	162.80	2.00	0.00	0.67	0.00	6.05	150.19	2.00	0.00	0.66	0.00
6.07	150.23	2.00	0.00	0.66	0.00	6.09	172.20	2.00	0.00	0.66	0.00
6.11	218.83	2.00	0.00	0.66	0.00	6.13	273.14	2.00	0.00	0.66	0.00
6.15	338.25	2.00	0.00	0.66	0.00	6.17	169.77	2.00	0.00	0.66	0.00
6.19	172.15	2.00	0.00	0.66	0.00	6.21	173.99	2.00	0.00	0.66	0.00
6.23	175.74	2.00	0.00	0.65	0.00	6.25	176.97	2.00	0.00	0.65	0.00
6.27	177.11	2.00	0.00	0.65	0.00	6.29	178.41	2.00	0.00	0.65	0.00
6.31	181.49	2.00	0.00	0.65	0.00	6.33	185.35	2.00	0.00	0.65	0.00
6.35	187.36	2.00	0.00	0.65	0.00	6.37	188.42	2.00	0.00	0.65	0.00
6.39	191.04	2.00	0.00	0.65	0.00	6.41	191.42	2.00	0.00	0.64	0.00
6.43	188.22	2.00	0.00	0.64	0.00	6.45	180.11	2.00	0.00	0.64	0.00
6.47	172.23	2.00	0.00	0.64	0.00	6.49	164.00	2.00	0.00	0.64	0.00
6.51	152.16	2.00	0.00	0.64	0.00	6.53	137.92	2.00	0.00	0.64	0.00
6.55	231.71	2.00	0.00	0.64	0.00	6.57	114.33	2.00	0.00	0.64	0.00
6.59	104.91	2.00	0.00	0.63	0.00	6.61	106.65	2.00	0.00	0.63	0.00
6.63	116.75	2.00	0.00	0.63	0.00	6.65	134.32	2.00	0.00	0.63	0.00
6.67	177.53	2.00	0.00	0.63	0.00	6.69	297.39	2.00	0.00	0.63	0.00
6.71	171.11	2.00	0.00	0.63	0.00	6.73	184.23	2.00	0.00	0.63	0.00
6.75	180.75	2.00	0.00	0.63	0.00	6.77	170.98	2.00	0.00	0.62	0.00
6.79	167.23	2.00	0.00	0.62	0.00	6.81	166.65	2.00	0.00	0.62	0.00
6.83	164.43	2.00	0.00	0.62	0.00	6.85	157.65	2.00	0.00	0.62	0.00
6.87	148.63	2.00	0.00	0.62	0.00	6.89	134.20	2.00	0.00	0.62	0.00
6.91	100.16	2.00	0.00	0.62	0.00	6.93	117.25	2.00	0.00	0.61	0.00
6.95	151.54	2.00	0.00	0.61	0.00	6.97	199.97	2.00	0.00	0.61	0.00
6.99	228.50	2.00	0.00	0.61	0.00	7.01	246.57	2.00	0.00	0.61	0.00
7.03	262.16	2.00	0.00	0.61	0.00	7.05	277.73	2.00	0.00	0.61	0.00
7.07	290.44	2.00	0.00	0.61	0.00	7.09	303.37	2.00	0.00	0.61	0.00
7.11	316.56	2.00	0.00	0.60	0.00	7.13	331.69	2.00	0.00	0.60	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
7.15	344.99	2.00	0.00	0.60	0.00	7.17	355.69	2.00	0.00	0.60	0.00
7.19	361.69	2.00	0.00	0.60	0.00	7.21	364.62	2.00	0.00	0.60	0.00
7.23	366.23	2.00	0.00	0.60	0.00	7.25	355.82	2.00	0.00	0.60	0.00
7.27	352.02	2.00	0.00	0.60	0.00	7.29	348.53	2.00	0.00	0.59	0.00
7.31	355.48	2.00	0.00	0.59	0.00	7.33	356.31	2.00	0.00	0.59	0.00
7.35	352.20	2.00	0.00	0.59	0.00	7.37	345.04	2.00	0.00	0.59	0.00
7.39	334.90	2.00	0.00	0.59	0.00	7.41	325.50	2.00	0.00	0.59	0.00
7.43	314.92	2.00	0.00	0.59	0.00	7.45	302.50	2.00	0.00	0.59	0.00
7.47	279.56	2.00	0.00	0.58	0.00	7.49	250.93	2.00	0.00	0.58	0.00
7.51	216.37	2.00	0.00	0.58	0.00	7.53	192.71	2.00	0.00	0.58	0.00
7.55	180.62	2.00	0.00	0.58	0.00	7.57	157.41	2.00	0.00	0.58	0.00
7.59	149.01	2.00	0.00	0.58	0.00	7.61	159.79	2.00	0.00	0.58	0.00
7.63	175.07	2.00	0.00	0.58	0.00	7.65	174.25	2.00	0.00	0.57	0.00
7.67	232.84	2.00	0.00	0.57	0.00	7.69	320.40	2.00	0.00	0.57	0.00
7.71	411.52	2.00	0.00	0.57	0.00	7.73	447.50	2.00	0.00	0.57	0.00
7.75	419.84	2.00	0.00	0.57	0.00	7.77	319.24	2.00	0.00	0.57	0.00
7.79	230.71	2.00	0.00	0.57	0.00	7.81	165.00	2.00	0.00	0.57	0.00
7.83	137.25	2.00	0.00	0.56	0.00	7.85	117.95	2.00	0.00	0.56	0.00
7.87	106.72	2.00	0.00	0.56	0.00	7.89	110.61	2.00	0.00	0.56	0.00
7.91	127.32	2.00	0.00	0.56	0.00	7.93	144.10	2.00	0.00	0.56	0.00
7.95	156.16	2.00	0.00	0.56	0.00	7.97	168.61	2.00	0.00	0.56	0.00
7.99	187.11	2.00	0.00	0.56	0.00	8.01	212.86	2.00	0.00	0.56	0.00
8.03	223.28	2.00	0.00	0.55	0.00	8.05	220.92	2.00	0.00	0.55	0.00
8.07	229.08	2.00	0.00	0.55	0.00	8.09	267.93	2.00	0.00	0.55	0.00
8.11	136.39	2.00	0.00	0.55	0.00	8.13	138.02	2.00	0.00	0.55	0.00
8.15	138.52	2.00	0.00	0.55	0.00	8.17	131.46	2.00	0.00	0.55	0.00
8.19	114.06	2.00	0.00	0.55	0.00	8.21	104.25	2.00	0.00	0.54	0.00
8.23	104.64	2.00	0.00	0.54	0.00	8.25	109.15	2.00	0.00	0.54	0.00
8.27	114.25	2.00	0.00	0.54	0.00	8.29	123.31	2.00	0.00	0.54	0.00
8.31	152.10	2.00	0.00	0.54	0.00	8.33	309.82	2.00	0.00	0.54	0.00
8.35	162.84	2.00	0.00	0.54	0.00	8.37	178.48	2.00	0.00	0.54	0.00
8.39	186.96	2.00	0.00	0.53	0.00	8.41	189.85	2.00	0.00	0.53	0.00
8.43	187.37	2.00	0.00	0.53	0.00	8.45	182.86	2.00	0.00	0.53	0.00
8.47	166.83	2.00	0.00	0.53	0.00	8.49	151.18	2.00	0.00	0.53	0.00
8.51	135.27	2.00	0.00	0.53	0.00	8.53	130.26	2.00	0.00	0.53	0.00
8.55	122.38	2.00	0.00	0.53	0.00	8.57	112.19	2.00	0.00	0.52	0.00
8.59	224.15	2.00	0.00	0.52	0.00	8.61	178.56	2.00	0.00	0.52	0.00
8.63	191.41	2.00	0.00	0.52	0.00	8.65	214.40	2.00	0.00	0.52	0.00
8.67	235.26	2.00	0.00	0.52	0.00	8.69	239.98	2.00	0.00	0.52	0.00
8.71	230.31	2.00	0.00	0.52	0.00	8.73	213.69	2.00	0.00	0.52	0.00
8.75	196.39	2.00	0.00	0.51	0.00	8.77	182.48	2.00	0.00	0.51	0.00
8.79	166.66	2.00	0.00	0.51	0.00	8.81	145.50	2.00	0.00	0.51	0.00
8.83	127.44	2.00	0.00	0.51	0.00	8.85	114.97	2.00	0.00	0.51	0.00
8.87	114.91	2.00	0.00	0.51	0.00	8.89	119.42	2.00	0.00	0.51	0.00
8.91	127.82	2.00	0.00	0.51	0.00	8.93	133.35	2.00	0.00	0.50	0.00
8.95	136.72	2.00	0.00	0.50	0.00	8.97	136.38	2.00	0.00	0.50	0.00
8.99	130.57	2.00	0.00	0.50	0.00	9.01	120.27	2.00	0.00	0.50	0.00
9.03	109.41	2.00	0.00	0.50	0.00	9.05	101.34	2.00	0.00	0.50	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
9.07	97.53	2.00	0.00	0.50	0.00	9.09	95.39	2.00	0.00	0.49	0.00
9.11	97.72	2.00	0.00	0.49	0.00	9.13	104.10	2.00	0.00	0.49	0.00
9.15	113.04	2.00	0.00	0.49	0.00	9.17	119.78	2.00	0.00	0.49	0.00
9.19	121.76	2.00	0.00	0.49	0.00	9.21	120.50	2.00	0.00	0.49	0.00
9.23	118.75	2.00	0.00	0.49	0.00	9.25	116.29	2.00	0.00	0.49	0.00
9.27	121.82	2.00	0.00	0.48	0.00	9.29	128.84	2.00	0.00	0.48	0.00
9.31	134.56	2.00	0.00	0.48	0.00	9.33	135.29	2.00	0.00	0.48	0.00
9.35	138.54	2.00	0.00	0.48	0.00	9.37	143.14	2.00	0.00	0.48	0.00
9.39	141.70	2.00	0.00	0.48	0.00	9.41	133.52	2.00	0.00	0.48	0.00
9.43	122.13	2.00	0.00	0.48	0.00	9.45	107.57	2.00	0.00	0.47	0.00
9.47	94.58	2.00	0.00	0.47	0.00	9.49	93.86	2.00	0.00	0.47	0.00
9.51	93.24	2.00	0.00	0.47	0.00	9.53	92.70	2.00	0.00	0.47	0.00
9.55	91.79	2.00	0.00	0.47	0.00	9.57	91.75	2.00	0.00	0.47	0.00
9.59	92.58	2.00	0.00	0.47	0.00	9.61	94.58	2.00	0.00	0.47	0.00
9.63	104.29	2.00	0.00	0.47	0.00	9.65	127.56	2.00	0.00	0.46	0.00
9.67	156.16	2.00	0.00	0.46	0.00	9.69	154.16	2.00	0.00	0.46	0.00
9.71	153.52	2.00	0.00	0.46	0.00	9.73	152.10	2.00	0.00	0.46	0.00
9.75	179.55	2.00	0.00	0.46	0.00	9.77	200.96	2.00	0.00	0.46	0.00
9.79	217.47	2.00	0.00	0.46	0.00	9.81	226.11	2.00	0.00	0.46	0.00
9.83	229.12	2.00	0.00	0.45	0.00	9.85	104.47	2.00	0.00	0.45	0.00
9.87	104.28	2.00	0.00	0.45	0.00	9.89	105.02	2.00	0.00	0.45	0.00
9.91	106.33	2.00	0.00	0.45	0.00	9.93	107.00	2.00	0.00	0.45	0.00
9.95	107.23	2.00	0.00	0.45	0.00	9.97	109.58	2.00	0.00	0.45	0.00
9.99	113.19	2.00	0.00	0.45	0.00	10.01	116.32	2.00	0.00	0.44	0.00
10.03	114.09	2.00	0.00	0.44	0.00	10.05	107.21	2.00	0.00	0.44	0.00
10.07	98.42	2.00	0.00	0.44	0.00	10.09	93.82	2.00	0.00	0.44	0.00
10.11	93.00	2.00	0.00	0.44	0.00	10.13	92.20	2.00	0.00	0.44	0.00
10.15	89.68	2.00	0.00	0.44	0.00	10.17	86.84	2.00	0.00	0.43	0.00
10.19	88.68	2.00	0.00	0.43	0.00	10.21	94.63	2.00	0.00	0.43	0.00
10.23	101.84	2.00	0.00	0.43	0.00	10.25	104.15	2.00	0.00	0.43	0.00
10.27	103.21	2.00	0.00	0.43	0.00	10.29	100.44	2.00	0.00	0.43	0.00
10.31	98.89	2.00	0.00	0.43	0.00	10.33	96.94	2.00	0.00	0.43	0.00
10.35	93.41	2.00	0.00	0.42	0.00	10.37	177.66	2.00	0.00	0.42	0.00
10.39	157.32	2.00	0.00	0.42	0.00	10.41	165.96	2.00	0.00	0.42	0.00
10.43	206.54	2.00	0.00	0.42	0.00	10.45	106.44	2.00	0.00	0.42	0.00
10.47	112.06	2.00	0.00	0.42	0.00	10.49	116.70	2.00	0.00	0.42	0.00
10.51	123.80	2.00	0.00	0.42	0.00	10.53	130.03	2.00	0.00	0.41	0.00
10.55	134.80	2.00	0.00	0.41	0.00	10.57	134.73	2.00	0.00	0.41	0.00
10.59	134.18	2.00	0.00	0.41	0.00	10.61	135.36	2.00	0.00	0.41	0.00
10.63	138.78	2.00	0.00	0.41	0.00	10.65	139.78	2.00	0.00	0.41	0.00
10.67	136.47	2.00	0.00	0.41	0.00	10.69	134.65	2.00	0.00	0.41	0.00
10.71	133.02	2.00	0.00	0.41	0.00	10.73	129.64	2.00	0.00	0.40	0.00
10.75	125.48	2.00	0.00	0.40	0.00	10.77	124.22	2.00	0.00	0.40	0.00
10.79	119.87	2.00	0.00	0.40	0.00	10.81	115.73	2.00	0.00	0.40	0.00
10.83	114.20	2.00	0.00	0.40	0.00	10.85	119.78	2.00	0.00	0.40	0.00
10.87	124.82	2.00	0.00	0.40	0.00	10.89	130.01	2.00	0.00	0.40	0.00
10.91	131.61	2.00	0.00	0.39	0.00	10.93	130.74	2.00	0.00	0.39	0.00
10.95	125.38	2.00	0.00	0.39	0.00	10.97	124.20	2.00	0.00	0.39	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
10.99	126.50	2.00	0.00	0.39	0.00	11.01	130.51	2.00	0.00	0.39	0.00
11.03	132.46	2.00	0.00	0.39	0.00	11.05	133.18	2.00	0.00	0.39	0.00
11.07	129.95	2.00	0.00	0.39	0.00	11.09	127.14	2.00	0.00	0.38	0.00
11.11	124.91	2.00	0.00	0.38	0.00	11.13	125.68	2.00	0.00	0.38	0.00
11.15	125.80	2.00	0.00	0.38	0.00	11.17	123.14	2.00	0.00	0.38	0.00
11.19	120.03	2.00	0.00	0.38	0.00	11.21	118.25	2.00	0.00	0.38	0.00
11.23	116.70	2.00	0.00	0.38	0.00	11.25	113.84	2.00	0.00	0.38	0.00
11.27	108.56	2.00	0.00	0.37	0.00	11.29	104.53	2.00	0.00	0.37	0.00
11.31	100.53	2.00	0.00	0.37	0.00	11.33	98.58	2.00	0.00	0.37	0.00
11.35	95.27	2.00	0.00	0.37	0.00	11.37	93.59	2.00	0.00	0.37	0.00
11.39	91.00	2.00	0.00	0.37	0.00	11.41	89.58	2.00	0.00	0.37	0.00
11.43	88.46	2.00	0.00	0.36	0.00	11.45	88.44	2.00	0.00	0.36	0.00
11.47	89.25	2.00	0.00	0.36	0.00	11.49	89.33	2.00	0.00	0.36	0.00
11.51	88.58	2.00	0.00	0.36	0.00	11.53	86.59	2.00	0.00	0.36	0.00
11.55	84.85	2.00	0.00	0.36	0.00	11.57	84.24	2.00	0.00	0.36	0.00
11.59	84.34	2.00	0.00	0.36	0.00	11.61	84.49	2.00	0.00	0.35	0.00
11.63	83.97	2.00	0.00	0.35	0.00	11.65	83.04	2.00	0.00	0.35	0.00
11.67	82.69	2.00	0.00	0.35	0.00	11.69	83.54	2.00	0.00	0.35	0.00
11.71	86.21	2.00	0.00	0.35	0.00	11.73	85.58	2.00	0.00	0.35	0.00
11.75	83.80	2.00	0.00	0.35	0.00	11.77	80.96	2.00	0.00	0.35	0.00
11.79	81.60	2.00	0.00	0.34	0.00	11.81	83.03	2.00	0.00	0.34	0.00
11.83	84.13	2.00	0.00	0.34	0.00	11.85	85.12	2.00	0.00	0.34	0.00
11.87	86.87	2.00	0.00	0.34	0.00	11.89	88.04	2.00	0.00	0.34	0.00
11.91	88.81	2.00	0.00	0.34	0.00	11.93	89.30	2.00	0.00	0.34	0.00
11.95	91.23	2.00	0.00	0.34	0.00	11.97	93.21	2.00	0.00	0.34	0.00
11.99	93.39	2.00	0.00	0.33	0.00	12.01	92.16	2.00	0.00	0.33	0.00
12.03	90.51	2.00	0.00	0.33	0.00	12.05	90.10	2.00	0.00	0.33	0.00
12.07	90.21	2.00	0.00	0.33	0.00	12.09	92.26	2.00	0.00	0.33	0.00
12.11	90.10	2.00	0.00	0.33	0.00	12.13	84.17	2.00	0.00	0.33	0.00
12.15	119.25	2.00	0.00	0.33	0.00	12.17	70.11	2.00	0.00	0.32	0.00
12.19	71.04	2.00	0.00	0.32	0.00	12.21	72.74	2.00	0.00	0.32	0.00
12.23	76.11	2.00	0.00	0.32	0.00	12.25	83.38	2.00	0.00	0.32	0.00
12.27	113.09	2.00	0.00	0.32	0.00	12.29	189.37	2.00	0.00	0.32	0.00
12.31	235.72	2.00	0.00	0.32	0.00	12.33	219.35	2.00	0.00	0.32	0.00
12.35	185.34	2.00	0.00	0.31	0.00	12.37	169.26	2.00	0.00	0.31	0.00
12.39	184.27	2.00	0.00	0.31	0.00	12.41	218.98	2.00	0.00	0.31	0.00
12.43	110.89	2.00	0.00	0.31	0.00	12.45	108.25	2.00	0.00	0.31	0.00
12.47	108.86	2.00	0.00	0.31	0.00	12.49	207.42	2.00	0.00	0.31	0.00
12.51	176.94	2.00	0.00	0.30	0.00	12.53	175.69	2.00	0.00	0.30	0.00
12.55	205.01	2.00	0.00	0.30	0.00	12.57	110.85	2.00	0.00	0.30	0.00
12.59	105.22	2.00	0.00	0.30	0.00	12.61	99.91	2.00	0.00	0.30	0.00
12.63	97.64	2.00	0.00	0.30	0.00	12.65	94.01	2.00	0.00	0.30	0.00
12.67	172.17	2.00	0.00	0.30	0.00	12.69	96.59	2.00	0.00	0.29	0.00
12.71	79.32	2.00	0.00	0.29	0.00	12.73	79.31	2.00	0.00	0.29	0.00
12.75	80.08	2.00	0.00	0.29	0.00	12.77	81.62	2.00	0.00	0.29	0.00
12.79	87.85	2.00	0.00	0.29	0.00	12.81	132.96	2.00	0.00	0.29	0.00
12.83	146.15	2.00	0.00	0.29	0.00	12.85	76.31	2.00	0.00	0.29	0.00
12.87	71.53	2.00	0.00	0.28	0.00	12.89	71.75	2.00	0.00	0.28	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
12.91	72.63	2.00	0.00	0.28	0.00	12.93	74.21	2.00	0.00	0.28	0.00
12.95	81.49	2.00	0.00	0.28	0.00	12.97	119.08	2.00	0.00	0.28	0.00
12.99	201.25	2.00	0.00	0.28	0.00	13.01	107.92	2.00	0.00	0.28	0.00
13.03	107.59	2.00	0.00	0.28	0.00	13.05	105.73	2.00	0.00	0.28	0.00
13.07	104.08	2.00	0.00	0.27	0.00	13.09	102.21	2.00	0.00	0.27	0.00
13.11	184.27	2.00	0.00	0.27	0.00	13.13	139.75	2.00	0.00	0.27	0.00
13.15	108.53	2.00	0.00	0.27	0.00	13.17	99.94	2.00	0.00	0.27	0.00
13.19	111.18	2.00	0.00	0.27	0.00	13.21	130.90	2.00	0.00	0.27	0.00
13.23	158.52	2.00	0.00	0.27	0.00	13.25	168.80	2.00	0.00	0.26	0.00
13.27	161.35	2.00	0.00	0.26	0.00	13.29	148.38	2.00	0.00	0.26	0.00
13.31	137.54	2.00	0.00	0.26	0.00	13.33	89.77	2.00	0.00	0.26	0.00
13.35	84.01	2.00	0.00	0.26	0.00	13.37	79.55	2.00	0.00	0.26	0.00
13.39	74.62	2.00	0.00	0.26	0.00	13.41	76.95	2.00	0.00	0.26	0.00
13.43	81.57	2.00	0.00	0.25	0.00	13.45	92.16	2.00	0.00	0.25	0.00
13.47	108.39	2.00	0.00	0.25	0.00	13.49	150.47	2.00	0.00	0.25	0.00
13.51	203.52	2.00	0.00	0.25	0.00	13.53	257.01	2.00	0.00	0.25	0.00
13.55	118.90	2.00	0.00	0.25	0.00	13.57	117.38	2.00	0.00	0.25	0.00
13.59	112.75	2.00	0.00	0.24	0.00	13.61	215.58	2.00	0.00	0.24	0.00
13.63	133.40	2.00	0.00	0.24	0.00	13.65	97.67	2.00	0.00	0.24	0.00
13.67	92.72	2.00	0.00	0.24	0.00	13.69	91.05	2.00	0.00	0.24	0.00
13.71	91.55	2.00	0.00	0.24	0.00	13.73	115.46	2.00	0.00	0.24	0.00
13.75	188.06	2.00	0.00	0.24	0.00	13.77	125.99	2.00	0.00	0.23	0.00
13.79	132.78	2.00	0.00	0.23	0.00	13.81	131.63	2.00	0.00	0.23	0.00
13.83	126.54	2.00	0.00	0.23	0.00	13.85	120.26	2.00	0.00	0.23	0.00
13.87	113.42	2.00	0.00	0.23	0.00	13.89	200.66	2.00	0.00	0.23	0.00
13.91	132.99	2.00	0.00	0.23	0.00	13.93	99.52	2.00	0.00	0.23	0.00
13.95	90.99	2.00	0.00	0.23	0.00	13.97	95.94	2.00	0.00	0.22	0.00
13.99	96.40	2.00	0.00	0.22	0.00	14.01	96.20	2.00	0.00	0.22	0.00
14.03	96.38	2.00	0.00	0.22	0.00	14.05	97.13	2.00	0.00	0.22	0.00
14.07	109.13	2.00	0.00	0.22	0.00	14.09	132.62	2.00	0.00	0.22	0.00
14.11	111.93	2.00	0.00	0.22	0.00	14.13	100.90	2.00	0.00	0.21	0.00
14.15	98.46	2.00	0.00	0.21	0.00	14.17	100.21	2.00	0.00	0.21	0.00
14.19	119.82	2.00	0.00	0.21	0.00	14.21	126.63	2.00	0.00	0.21	0.00
14.23	151.28	2.00	0.00	0.21	0.00	14.25	186.78	2.00	0.00	0.21	0.00
14.27	233.87	2.00	0.00	0.21	0.00	14.29	217.09	2.00	0.00	0.21	0.00
14.31	199.92	2.00	0.00	0.20	0.00	14.33	209.60	2.00	0.00	0.20	0.00
14.35	244.24	2.00	0.00	0.20	0.00	14.37	115.28	2.00	0.00	0.20	0.00
14.39	115.33	2.00	0.00	0.20	0.00	14.41	206.31	2.00	0.00	0.20	0.00
14.43	158.27	2.00	0.00	0.20	0.00	14.45	116.33	2.00	0.00	0.20	0.00
14.47	100.71	2.00	0.00	0.20	0.00	14.49	97.94	2.00	0.00	0.20	0.00
14.51	95.73	2.00	0.00	0.19	0.00	14.53	93.48	2.00	0.00	0.19	0.00
14.55	91.31	2.00	0.00	0.19	0.00	14.57	89.23	2.00	0.00	0.19	0.00
14.59	85.61	2.00	0.00	0.19	0.00	14.61	82.40	2.00	0.00	0.19	0.00
14.63	90.71	2.00	0.00	0.19	0.00	14.65	139.24	2.00	0.00	0.19	0.00
14.67	121.52	2.00	0.00	0.18	0.00	14.69	120.69	2.00	0.00	0.18	0.00
14.71	115.65	2.00	0.00	0.18	0.00	14.73	192.56	2.00	0.00	0.18	0.00
14.75	125.33	2.00	0.00	0.18	0.00	14.77	94.19	2.00	0.00	0.18	0.00
14.79	89.15	2.00	0.00	0.18	0.00	14.81	88.73	2.00	0.00	0.18	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
14.83	111.97	2.00	0.00	0.18	0.00	14.85	148.57	2.00	0.00	0.17	0.00
14.87	205.25	2.00	0.00	0.17	0.00	14.89	115.39	2.00	0.00	0.17	0.00
14.91	191.75	2.00	0.00	0.17	0.00	14.93	110.34	2.00	0.00	0.17	0.00
14.95	100.47	2.00	0.00	0.17	0.00	14.97	99.19	2.00	0.00	0.17	0.00
14.99	97.85	2.00	0.00	0.17	0.00	15.01	92.59	2.00	0.00	0.17	0.00
15.03	168.72	2.00	0.00	0.17	0.00	15.05	107.51	2.00	0.00	0.16	0.00
15.07	112.23	2.00	0.00	0.16	0.00	15.09	218.38	2.00	0.00	0.16	0.00
15.11	224.59	2.00	0.00	0.16	0.00	15.13	106.60	2.00	0.00	0.16	0.00
15.15	212.35	2.00	0.00	0.16	0.00	15.17	192.09	2.00	0.00	0.16	0.00
15.19	215.69	2.00	0.00	0.16	0.00	15.21	102.88	2.00	0.00	0.15	0.00
15.23	106.71	2.00	0.00	0.15	0.00	15.25	106.79	2.00	0.00	0.15	0.00
15.27	105.63	2.00	0.00	0.15	0.00	15.29	99.79	2.00	0.00	0.15	0.00
15.31	95.99	2.00	0.00	0.15	0.00	15.33	91.71	2.00	0.00	0.15	0.00
15.35	91.52	2.00	0.00	0.15	0.00	15.37	92.79	2.00	0.00	0.15	0.00
15.39	94.60	2.00	0.00	0.14	0.00	15.41	93.08	2.00	0.00	0.14	0.00
15.43	87.98	2.00	0.00	0.14	0.00	15.45	83.74	2.00	0.00	0.14	0.00
15.47	104.04	2.00	0.00	0.14	0.00	15.49	85.56	2.00	0.00	0.14	0.00
15.51	77.10	2.00	0.00	0.14	0.00	15.53	76.83	2.00	0.00	0.14	0.00
15.55	76.47	2.00	0.00	0.14	0.00	15.57	77.56	2.00	0.00	0.14	0.00
15.59	79.77	2.00	0.00	0.13	0.00	15.61	81.29	2.00	0.00	0.13	0.00
15.63	84.57	2.00	0.00	0.13	0.00	15.65	89.10	2.00	0.00	0.13	0.00
15.67	129.76	2.00	0.00	0.13	0.00	15.69	106.78	2.00	0.00	0.13	0.00
15.71	118.37	2.00	0.00	0.13	0.00	15.73	120.67	2.00	0.00	0.13	0.00
15.75	111.74	2.00	0.00	0.13	0.00	15.77	209.82	2.00	0.00	0.12	0.00
15.79	97.97	2.00	0.00	0.12	0.00	15.81	78.26	2.00	0.00	0.12	0.00
15.83	73.40	2.00	0.00	0.12	0.00	15.85	108.22	2.00	0.00	0.12	0.00
15.87	162.13	2.00	0.00	0.12	0.00	15.89	187.99	2.00	0.00	0.12	0.00
15.91	195.78	2.00	0.00	0.12	0.00	15.93	95.96	2.00	0.00	0.12	0.00
15.95	101.40	2.00	0.00	0.11	0.00	15.97	104.06	2.00	0.00	0.11	0.00
15.99	104.25	2.00	0.00	0.11	0.00	16.01	103.22	2.00	0.00	0.11	0.00
16.03	100.93	2.00	0.00	0.11	0.00	16.05	97.66	2.00	0.00	0.11	0.00
16.07	91.65	2.00	0.00	0.11	0.00	16.09	88.86	2.00	0.00	0.11	0.00
16.11	88.96	2.00	0.00	0.10	0.00	16.13	89.71	2.00	0.00	0.10	0.00
16.15	90.20	2.00	0.00	0.10	0.00	16.17	89.23	2.00	0.00	0.10	0.00
16.19	89.79	2.00	0.00	0.10	0.00	16.21	88.49	2.00	0.00	0.10	0.00
16.23	86.18	2.00	0.00	0.10	0.00	16.25	84.03	2.00	0.00	0.10	0.00
16.27	82.59	2.00	0.00	0.10	0.00	16.29	82.45	2.00	0.00	0.10	0.00
16.31	82.29	2.00	0.00	0.09	0.00	16.33	83.11	2.00	0.00	0.09	0.00
16.35	83.54	2.00	0.00	0.09	0.00	16.37	84.19	2.00	0.00	0.09	0.00
16.39	84.42	2.00	0.00	0.09	0.00	16.41	85.35	2.00	0.00	0.09	0.00
16.43	86.61	2.00	0.00	0.09	0.00	16.45	86.45	2.00	0.00	0.09	0.00
16.47	85.55	2.00	0.00	0.09	0.00	16.49	85.61	2.00	0.00	0.08	0.00
16.51	88.76	2.00	0.00	0.08	0.00	16.53	90.40	2.00	0.00	0.08	0.00
16.55	90.68	2.00	0.00	0.08	0.00	16.57	85.87	2.00	0.00	0.08	0.00
16.59	83.20	2.00	0.00	0.08	0.00	16.61	83.31	2.00	0.00	0.08	0.00
16.63	91.74	2.00	0.00	0.08	0.00	16.65	99.49	2.00	0.00	0.08	0.00
16.67	104.95	2.00	0.00	0.07	0.00	16.69	104.70	2.00	0.00	0.07	0.00
16.71	103.41	2.00	0.00	0.07	0.00	16.73	98.85	2.00	0.00	0.07	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
16.75	92.75	2.00	0.00	0.07	0.00	16.77	85.08	2.00	0.00	0.07	0.00
16.79	80.94	2.00	0.00	0.07	0.00	16.81	79.21	2.00	0.00	0.07	0.00
16.83	79.24	2.00	0.00	0.07	0.00	16.85	78.96	2.00	0.00	0.06	0.00
16.87	79.11	2.00	0.00	0.06	0.00	16.89	78.95	2.00	0.00	0.06	0.00
16.91	78.58	2.00	0.00	0.06	0.00	16.93	77.62	2.00	0.00	0.06	0.00
16.95	76.90	2.00	0.00	0.06	0.00	16.97	76.48	2.00	0.00	0.06	0.00
16.99	77.12	2.00	0.00	0.06	0.00	17.01	77.95	2.00	0.00	0.06	0.00
17.03	78.91	2.00	0.00	0.05	0.00	17.05	79.50	2.00	0.00	0.05	0.00
17.07	79.68	2.00	0.00	0.05	0.00	17.09	79.69	2.00	0.00	0.05	0.00
17.11	79.22	2.00	0.00	0.05	0.00	17.13	78.48	2.00	0.00	0.05	0.00
17.15	77.28	2.00	0.00	0.05	0.00	17.17	75.74	2.00	0.00	0.05	0.00
17.19	74.25	2.00	0.00	0.05	0.00	17.21	73.23	2.00	0.00	0.04	0.00
17.23	73.09	2.00	0.00	0.04	0.00	17.25	73.43	2.00	0.00	0.04	0.00
17.27	74.10	2.00	0.00	0.04	0.00	17.29	74.26	2.00	0.00	0.04	0.00
17.31	74.06	2.00	0.00	0.04	0.00	17.33	73.53	2.00	0.00	0.04	0.00
17.35	73.15	2.00	0.00	0.04	0.00	17.37	72.96	2.00	0.00	0.04	0.00
17.39	72.68	2.00	0.00	0.03	0.00	17.41	72.16	2.00	0.00	0.03	0.00
17.43	71.85	2.00	0.00	0.03	0.00	17.45	71.71	2.00	0.00	0.03	0.00
17.47	71.75	2.00	0.00	0.03	0.00	17.49	71.24	2.00	0.00	0.03	0.00
17.51	70.90	2.00	0.00	0.03	0.00	17.53	71.89	2.00	0.00	0.03	0.00
17.55	74.68	2.00	0.00	0.03	0.00	17.57	78.02	2.00	0.00	0.02	0.00
17.59	81.26	2.00	0.00	0.02	0.00	17.61	84.01	2.00	0.00	0.02	0.00
17.63	86.23	2.00	0.00	0.02	0.00	17.65	86.42	2.00	0.00	0.02	0.00
17.67	84.77	2.00	0.00	0.02	0.00	17.69	75.23	2.00	0.00	0.02	0.00
17.71	72.10	2.00	0.00	0.02	0.00	17.73	135.74	2.00	0.00	0.01	0.00
17.75	193.07	2.00	0.00	0.01	0.00	17.77	207.31	2.00	0.00	0.01	0.00
17.79	217.50	2.00	0.00	0.01	0.00	17.81	222.23	2.00	0.00	0.01	0.00
17.83	233.41	2.00	0.00	0.01	0.00	17.85	236.87	2.00	0.00	0.01	0.00
17.87	241.30	2.00	0.00	0.01	0.00	17.89	234.93	2.00	0.00	0.01	0.00
17.91	224.72	2.00	0.00	0.00	0.00	17.93	210.10	2.00	0.00	0.00	0.00
17.95	197.12	2.00	0.00	0.00	0.00	17.97	189.90	2.00	0.00	0.00	0.00
17.99	191.76	2.00	0.00	0.00	0.00	18.01	203.06	2.00	0.00	0.00	0.00
18.03	213.18	2.00	0.00	0.00	0.00	18.05	221.59	2.00	0.00	0.00	0.00
18.07	225.13	2.00	0.00	0.00	0.00	18.09	225.84	2.00	0.00	0.00	0.00
18.11	226.37	2.00	0.00	0.00	0.00	18.13	227.37	2.00	0.00	0.00	0.00
18.15	230.90	2.00	0.00	0.00	0.00	18.17	233.07	2.00	0.00	0.00	0.00
18.19	228.27	2.00	0.00	0.00	0.00	18.21	220.96	2.00	0.00	0.00	0.00
18.23	205.97	2.00	0.00	0.00	0.00	18.25	197.01	2.00	0.00	0.00	0.00
18.27	189.56	2.00	0.00	0.00	0.00	18.29	191.97	2.00	0.00	0.00	0.00
18.31	191.91	2.00	0.00	0.00	0.00	18.33	185.69	2.00	0.00	0.00	0.00
18.35	184.01	2.00	0.00	0.00	0.00	18.37	193.98	2.00	0.00	0.00	0.00
18.39	199.99	2.00	0.00	0.00	0.00	18.41	208.94	2.00	0.00	0.00	0.00
18.43	234.44	2.00	0.00	0.00	0.00	18.45	259.07	2.00	0.00	0.00	0.00
18.47	280.04	2.00	0.00	0.00	0.00	18.49	295.59	2.00	0.00	0.00	0.00
18.51	315.59	2.00	0.00	0.00	0.00	18.53	329.95	2.00	0.00	0.00	0.00
18.55	348.12	2.00	0.00	0.00	0.00	18.57	361.11	2.00	0.00	0.00	0.00
18.59	373.32	2.00	0.00	0.00	0.00						

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)

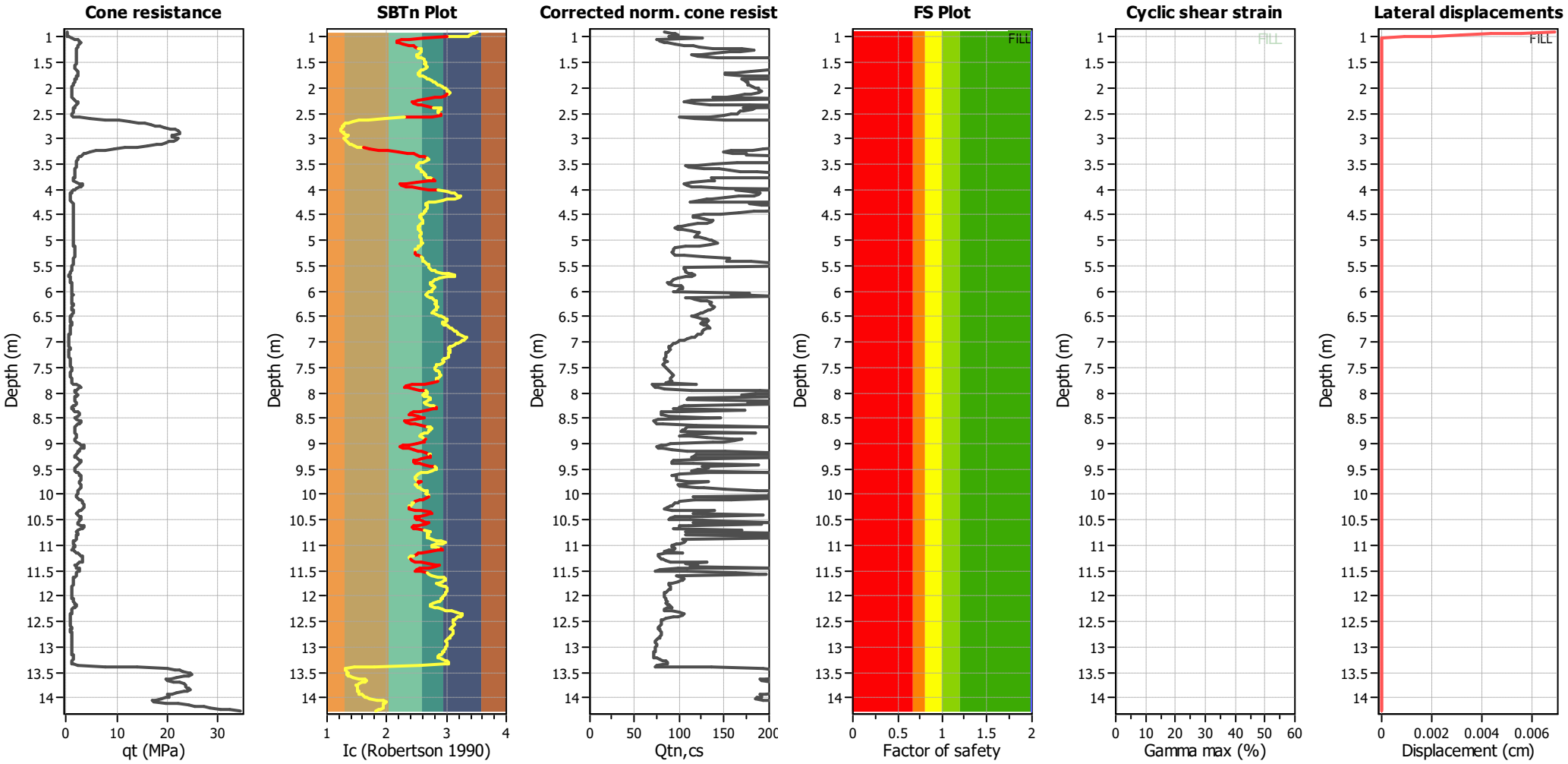
Total estimated settlement: 0.00

Abbreviations

$Q_{tn,cs}$:	Equivalent clean sand normalized cone resistance
FS:	Factor of safety against liquefaction
e_v (%):	Post-liquefaction volumentric strain
DF:	e_v depth weighting factor
Settlement:	Calculated settlement

Estimation of post-earthquake lateral Displacements

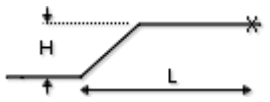
Geometric parameters: Level ground (or gently sloping) with free face (L: 67.00 m - H: 2.90 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
5.23	0.20	3.73	5.58	82.29	2.00	0.00	0.14	0.00
5.25	0.25	4.57	6.06	92.03	2.00	0.00	0.13	0.00
5.27	0.27	5.00	6.09	95.55	2.00	0.00	0.12	0.00
5.29	0.30	5.59	5.90	98.38	2.00	0.00	0.12	0.00
5.31	0.29	5.40	5.34	92.99	2.00	0.00	0.12	0.00
5.33	0.52	10.04	2.99	88.51	2.00	0.00	0.09	0.00
5.35	1.05	20.47	1.81	125.21	2.00	14.64	0.00	0.00
5.37	1.69	33.12	1.36	74.64	2.00	30.53	0.00	0.00
5.39	2.23	43.77	1.21	76.46	2.00	39.73	0.00	0.00
5.41	2.56	50.17	1.13	78.80	2.00	44.23	0.00	0.00
5.43	2.75	53.97	1.16	82.54	2.00	46.65	0.00	0.00
5.45	2.78	54.56	1.32	87.02	2.00	47.00	0.00	0.00
5.47	2.62	51.27	1.67	94.69	2.00	44.95	0.00	0.00
5.49	2.42	47.34	2.09	104.73	2.00	42.32	0.00	0.00
5.51	2.27	44.41	2.49	114.91	2.00	40.21	0.00	0.00
5.53	2.18	42.75	2.78	122.35	2.00	38.95	0.00	0.00
5.55	2.10	41.13	3.08	136.53	2.00	37.68	0.00	0.00
5.57	1.98	38.75	3.32	168.99	2.00	35.71	0.00	0.00
5.59	1.90	37.21	3.38	183.12	2.00	34.37	0.00	0.00
5.61	1.88	36.64	3.21	168.42	2.00	33.86	0.00	0.00
5.63	1.86	36.33	3.07	156.60	2.00	33.58	0.00	0.00
5.65	1.88	36.74	2.91	139.61	2.00	33.95	0.00	0.00
5.67	1.94	37.94	2.78	123.06	2.00	35.01	0.00	0.00
5.69	2.05	40.12	2.76	113.44	2.00	36.86	0.00	0.00
5.71	2.13	41.53	2.90	120.17	2.00	38.00	0.00	0.00
5.73	2.15	41.92	3.18	142.58	2.00	38.30	0.00	0.00
5.75	2.05	40.01	3.67	198.55	2.00	36.76	0.00	0.00
5.77	2.03	39.63	4.01	237.85	2.00	36.45	0.00	0.00
5.79	2.02	39.39	4.25	268.11	2.00	36.25	0.00	0.00
5.81	2.04	39.86	4.24	264.31	2.00	36.64	0.00	0.00
5.83	2.00	39.01	4.32	279.99	2.00	35.93	0.00	0.00
5.85	1.97	38.50	4.20	268.57	2.00	35.49	0.00	0.00
5.87	1.93	37.64	4.11	263.73	2.00	34.75	0.00	0.00
5.89	1.86	36.17	4.00	261.15	2.00	33.44	0.00	0.00
5.91	1.77	34.40	4.17	296.42	2.00	31.77	0.00	0.00
5.93	1.77	34.44	4.16	295.38	2.00	31.82	0.00	0.00
5.95	1.85	35.93	4.10	275.61	2.00	33.22	0.00	0.00
5.97	1.99	38.77	3.87	228.93	2.00	35.72	0.00	0.00
5.99	2.10	40.98	3.71	198.61	2.00	37.56	0.00	0.00
6.01	2.18	42.56	3.59	179.41	2.00	38.80	0.00	0.00
6.03	2.23	43.47	3.46	162.80	2.00	39.50	0.00	0.00
6.05	2.33	45.42	3.40	150.19	2.00	40.95	0.00	0.00
6.07	2.35	45.82	3.42	150.23	2.00	41.24	0.00	0.00
6.09	2.29	44.64	3.61	172.20	2.00	40.38	0.00	0.00
6.11	2.14	41.57	3.92	218.83	2.00	38.02	0.00	0.00
6.13	2.01	39.08	4.26	273.14	2.00	35.99	0.00	0.00
6.15	1.90	36.89	4.62	338.25	2.00	34.08	0.00	0.00
6.17	1.80	34.97	4.84	169.77	2.00	32.32	0.03	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.19	1.70	33.02	5.07	172.15	2.00	30.43	0.04	0.00
6.21	1.64	31.67	5.25	173.99	2.00	29.05	0.04	0.00
6.23	1.57	30.42	5.44	175.74	2.00	27.72	0.04	0.00
6.25	1.50	29.04	5.63	176.97	2.00	26.19	0.04	0.00
6.27	1.40	27.04	5.85	177.11	2.00	23.83	0.05	0.00
6.29	1.31	25.30	6.14	178.41	2.00	21.63	0.05	0.00
6.31	1.24	23.92	6.52	181.49	2.00	19.78	0.05	0.00
6.33	1.17	22.46	7.01	185.35	2.00	17.71	0.05	0.00
6.35	1.13	21.59	7.32	187.36	2.00	16.40	0.06	0.00
6.37	1.12	21.43	7.43	188.42	2.00	16.16	0.06	0.00
6.39	1.13	21.59	7.56	191.04	2.00	16.40	0.06	0.00
6.41	1.09	20.84	7.77	191.42	2.00	15.24	0.06	0.00
6.43	1.03	19.59	7.86	188.22	2.00	13.20	0.06	0.00
6.45	0.99	18.85	7.47	180.11	2.00	11.92	0.06	0.00
6.47	1.00	18.98	6.88	172.23	2.00	12.15	0.06	0.00
6.49	1.03	19.55	6.19	164.00	2.00	13.13	0.06	0.00
6.51	1.09	20.89	5.24	152.16	2.00	15.31	0.06	0.00
6.53	1.24	23.65	4.18	137.92	2.00	19.41	0.05	0.00
6.55	1.47	28.20	3.22	231.71	2.00	25.22	0.00	0.00
6.57	1.81	34.96	2.51	114.33	2.00	32.31	0.00	0.00
6.59	2.08	40.40	2.22	104.91	2.00	37.09	0.00	0.00
6.61	2.25	43.61	2.22	106.65	2.00	39.61	0.00	0.00
6.63	2.22	43.12	2.56	116.75	2.00	39.23	0.00	0.00
6.65	2.12	41.12	3.03	134.32	2.00	37.67	0.00	0.00
6.67	2.04	39.40	3.41	177.53	2.00	36.25	0.00	0.00
6.69	1.81	35.03	4.18	297.39	2.00	32.38	0.00	0.00
6.71	1.59	30.54	5.18	171.11	2.00	27.86	0.04	0.00
6.73	1.34	25.65	6.38	184.23	2.00	22.09	0.05	0.00
6.75	1.28	24.54	6.34	180.75	2.00	20.64	0.05	0.00
6.77	1.34	25.71	5.65	170.98	2.00	22.16	0.05	0.00
6.79	1.35	25.80	5.44	167.23	2.00	22.28	0.05	0.00
6.81	1.30	24.82	5.52	166.65	2.00	21.01	0.05	0.00
6.83	1.18	22.42	5.71	164.43	2.00	17.65	0.05	0.00
6.85	1.11	21.08	5.50	157.65	2.00	15.61	0.06	0.00
6.87	1.10	20.83	5.01	148.63	2.00	15.22	0.06	0.00
6.89	1.30	24.79	3.89	134.20	2.00	20.96	0.05	0.00
6.91	2.64	51.20	1.84	100.16	2.00	44.91	0.00	0.00
6.93	4.69	91.71	1.08	117.25	2.00	64.14	0.00	0.00
6.95	7.72	151.54	0.74	151.54	2.00	80.72	0.00	0.00
6.97	10.30	199.97	0.58	199.97	2.00	89.87	0.00	0.00
6.99	12.56	228.50	0.47	228.50	2.00	94.27	0.00	0.00
7.01	14.22	246.57	0.38	246.57	2.00	96.79	0.00	0.00
7.03	15.52	262.16	0.36	262.16	2.00	98.81	0.00	0.00
7.05	16.71	277.73	0.35	277.73	2.00	100.00	0.00	0.00
7.07	17.67	290.44	0.35	290.44	2.00	100.00	0.00	0.00
7.09	18.65	303.37	0.35	303.37	2.00	100.00	0.00	0.00
7.11	19.61	316.56	0.36	316.56	2.00	100.00	0.00	0.00
7.13	20.67	331.69	0.37	331.69	2.00	100.00	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
7.15	21.55	344.99	0.39	344.99	2.00	100.00	0.00	0.00
7.17	22.23	355.69	0.41	355.69	2.00	100.00	0.00	0.00
7.19	22.45	361.69	0.44	361.69	2.00	100.00	0.00	0.00
7.21	22.55	364.62	0.46	364.62	2.00	100.00	0.00	0.00
7.23	22.52	366.23	0.49	366.23	2.00	100.00	0.00	0.00
7.25	21.28	355.82	0.57	355.82	2.00	100.00	0.00	0.00
7.27	21.05	352.02	0.57	352.02	2.00	100.00	0.00	0.00
7.29	20.93	348.53	0.56	348.53	2.00	100.00	0.00	0.00
7.31	22.09	355.48	0.47	355.48	2.00	100.00	0.00	0.00
7.33	22.14	356.31	0.48	356.31	2.00	100.00	0.00	0.00
7.35	21.80	352.20	0.50	352.20	2.00	100.00	0.00	0.00
7.37	21.20	345.04	0.52	345.04	2.00	100.00	0.00	0.00
7.39	20.43	334.90	0.54	334.90	2.00	100.00	0.00	0.00
7.41	19.71	325.50	0.56	325.50	2.00	100.00	0.00	0.00
7.43	18.90	314.92	0.58	314.92	2.00	100.00	0.00	0.00
7.45	17.99	302.50	0.60	302.50	2.00	100.00	0.00	0.00
7.47	16.29	279.56	0.64	279.56	2.00	100.00	0.00	0.00
7.49	14.18	250.93	0.71	250.93	2.00	97.37	0.00	0.00
7.51	11.67	216.37	0.84	216.37	2.00	92.48	0.00	0.00
7.53	9.54	185.80	1.03	192.71	2.00	87.45	0.00	0.00
7.55	7.59	148.75	1.32	180.62	2.00	80.11	0.00	0.00
7.57	6.06	118.54	1.74	157.41	2.00	72.61	0.00	0.00
7.59	4.78	93.26	2.37	149.01	2.00	64.70	0.00	0.00
7.61	3.95	76.92	3.11	159.79	2.00	58.34	0.00	0.00
7.63	3.40	65.97	3.82	175.07	2.00	53.27	0.00	0.00
7.65	3.16	61.19	4.20	174.25	2.00	50.79	0.00	0.00
7.67	2.90	56.09	4.63	232.84	2.00	47.91	0.00	0.00
7.69	2.63	50.74	5.16	320.40	2.00	44.61	0.00	0.00
7.71	2.42	46.66	5.62	411.52	2.00	41.84	0.00	0.00
7.73	2.29	44.10	5.72	447.50	2.00	39.98	0.00	0.00
7.75	2.21	42.47	5.44	419.84	2.00	38.74	0.00	0.00
7.77	2.15	41.33	4.67	319.24	2.00	37.84	0.00	0.00
7.79	2.10	40.24	3.90	230.71	2.00	36.95	0.00	0.00
7.81	2.05	39.22	3.24	165.00	2.00	36.11	0.00	0.00
7.83	2.02	38.59	2.91	137.25	2.00	35.57	0.00	0.00
7.85	2.00	38.27	2.68	117.95	2.00	35.30	0.00	0.00
7.87	1.98	37.92	2.52	106.72	2.00	34.99	0.00	0.00
7.89	1.93	36.85	2.52	110.61	2.00	34.05	0.00	0.00
7.91	1.84	35.11	2.63	127.32	2.00	32.45	0.00	0.00
7.93	1.80	34.36	2.77	144.10	2.00	31.74	0.00	0.00
7.95	1.80	34.26	2.89	156.16	2.00	31.64	0.00	0.00
7.97	1.79	34.12	3.00	168.61	2.00	31.51	0.00	0.00
7.99	1.75	33.29	3.13	187.11	2.00	30.69	0.00	0.00
8.01	1.69	32.14	3.28	212.86	2.00	29.54	0.00	0.00
8.03	1.68	31.79	3.34	223.28	2.00	29.17	0.00	0.00
8.05	1.68	31.94	3.33	220.92	2.00	29.33	0.00	0.00
8.07	1.66	31.45	3.37	229.08	2.00	28.81	0.00	0.00
8.09	1.56	29.54	3.53	267.93	2.00	26.75	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.11	1.42	26.64	3.81	136.39	2.00	23.35	0.05	0.00
8.13	1.31	24.48	4.02	138.02	2.00	20.55	0.05	0.00
8.15	1.26	23.56	4.11	138.52	2.00	19.29	0.05	0.00
8.17	1.45	27.25	3.56	131.46	2.00	24.09	0.05	0.00
8.19	2.05	39.06	2.52	114.06	2.00	35.97	0.00	0.00
8.21	2.74	52.78	1.93	104.25	2.00	45.91	0.00	0.00
8.23	3.21	62.07	1.72	104.64	2.00	51.26	0.00	0.00
8.25	3.19	61.56	1.89	109.15	2.00	50.99	0.00	0.00
8.27	2.92	56.35	2.17	114.25	2.00	48.07	0.00	0.00
8.29	2.53	48.52	2.62	123.31	2.00	43.13	0.00	0.00
8.31	2.10	40.11	3.13	152.10	2.00	36.85	0.00	0.00
8.33	1.68	31.76	3.98	309.82	2.00	29.14	0.00	0.00
8.35	1.35	25.23	5.16	162.84	2.00	21.54	0.05	0.00
8.37	1.10	20.35	6.77	178.48	2.00	14.44	0.06	0.00
8.39	0.98	17.96	7.95	186.96	2.00	10.33	0.06	0.00
8.41	0.92	16.66	8.60	189.85	2.00	7.86	0.07	0.00
8.43	0.88	15.86	8.69	187.37	2.00	6.22	0.07	0.00
8.45	0.82	14.73	8.76	182.86	2.00	3.78	0.07	0.00
8.47	0.69	12.22	8.44	166.83	2.00	0.00	0.08	0.00
8.49	0.67	11.73	7.18	151.18	2.00	0.00	0.08	0.00
8.51	0.68	11.91	5.71	135.27	2.00	0.00	0.08	0.00
8.53	0.80	14.32	4.74	130.26	2.00	2.86	0.07	0.00
8.55	0.89	16.06	3.96	122.38	2.00	6.65	0.07	0.00
8.57	1.05	19.30	3.12	112.19	2.00	12.70	0.06	0.00
8.59	1.22	22.64	2.65	224.15	2.00	17.97	0.00	0.00
8.61	1.35	25.18	2.50	178.56	2.00	21.48	0.00	0.00
8.63	1.39	25.92	2.66	191.41	2.00	22.44	0.00	0.00
8.65	1.39	25.95	2.84	214.40	2.00	22.47	0.00	0.00
8.67	1.38	25.75	2.98	235.26	2.00	22.23	0.00	0.00
8.69	1.39	25.98	3.03	239.98	2.00	22.51	0.00	0.00
8.71	1.42	26.58	3.01	230.31	2.00	23.27	0.00	0.00
8.73	1.47	27.43	2.95	213.69	2.00	24.31	0.00	0.00
8.75	1.50	28.06	2.85	196.39	2.00	25.06	0.00	0.00
8.77	1.51	28.23	2.75	182.48	2.00	25.25	0.00	0.00
8.79	1.50	28.04	2.60	166.66	2.00	25.03	0.00	0.00
8.81	1.49	27.88	2.39	145.50	2.00	24.84	0.00	0.00
8.83	1.49	27.85	2.22	127.44	2.00	24.80	0.00	0.00
8.85	1.49	27.83	2.09	114.97	2.00	24.78	0.00	0.00
8.87	1.48	27.55	2.07	114.91	2.00	24.45	0.00	0.00
8.89	1.45	27.08	2.09	119.42	2.00	23.88	0.00	0.00
8.91	1.42	26.50	2.13	127.82	2.00	23.17	0.00	0.00
8.93	1.40	26.05	2.16	133.35	2.00	22.61	0.00	0.00
8.95	1.39	25.77	2.17	136.72	2.00	22.24	0.00	0.00
8.97	1.38	25.64	2.16	136.38	2.00	22.08	0.00	0.00
8.99	1.39	25.84	2.12	130.57	2.00	22.33	0.00	0.00
9.01	1.41	26.28	2.04	120.27	2.00	22.90	0.00	0.00
9.03	1.44	26.83	1.97	109.41	2.00	23.57	0.00	0.00
9.05	1.46	27.11	1.90	101.34	2.00	23.92	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
9.07	1.46	27.16	1.86	97.53	2.00	23.98	0.00	0.00
9.09	1.46	27.13	1.83	95.39	2.00	23.94	0.00	0.00
9.11	1.45	27.06	1.85	97.72	2.00	23.86	0.00	0.00
9.13	1.44	26.85	1.91	104.10	2.00	23.60	0.00	0.00
9.15	1.43	26.59	1.99	113.04	2.00	23.28	0.00	0.00
9.17	1.43	26.62	2.06	119.78	2.00	23.31	0.00	0.00
9.19	1.46	27.14	2.11	121.76	2.00	23.96	0.00	0.00
9.21	1.50	27.94	2.14	120.50	2.00	24.91	0.00	0.00
9.23	1.53	28.55	2.16	118.75	2.00	25.63	0.00	0.00
9.25	1.55	28.82	2.15	116.29	2.00	25.93	0.00	0.00
9.27	1.54	28.77	2.20	121.82	2.00	25.88	0.00	0.00
9.29	1.54	28.69	2.27	128.84	2.00	25.79	0.00	0.00
9.31	1.54	28.75	2.33	134.56	2.00	25.86	0.00	0.00
9.33	1.54	28.75	2.33	135.29	2.00	25.86	0.00	0.00
9.35	1.54	28.57	2.35	138.54	2.00	25.65	0.00	0.00
9.37	1.52	28.22	2.38	143.14	2.00	25.25	0.00	0.00
9.39	1.51	28.13	2.36	141.70	2.00	25.14	0.00	0.00
9.41	1.52	28.32	2.29	133.52	2.00	25.36	0.00	0.00
9.43	1.55	28.81	2.20	122.13	2.00	25.93	0.00	0.00
9.45	1.60	29.78	2.10	107.57	2.00	27.02	0.00	0.00
9.47	1.66	30.92	2.01	94.58	2.00	28.26	0.00	0.00
9.49	1.71	31.98	1.96	93.86	2.00	29.37	0.00	0.00
9.51	1.75	32.66	1.92	93.24	2.00	30.07	0.00	0.00
9.53	1.77	33.14	1.90	92.70	2.00	30.55	0.00	0.00
9.55	1.79	33.45	1.86	91.79	2.00	30.86	0.00	0.00
9.57	1.78	33.28	1.86	91.75	2.00	30.69	0.00	0.00
9.59	1.75	32.79	1.90	92.58	2.00	30.19	0.00	0.00
9.61	1.71	31.91	1.98	94.58	2.00	29.30	0.00	0.00
9.63	1.66	30.95	2.12	104.29	2.00	28.29	0.00	0.00
9.65	1.60	29.76	2.31	127.56	2.00	26.99	0.00	0.00
9.67	1.54	28.54	2.51	156.16	2.00	25.61	0.00	0.00
9.69	1.55	28.68	2.50	154.16	2.00	25.77	0.00	0.00
9.71	1.54	28.63	2.49	153.52	2.00	25.72	0.00	0.00
9.73	1.53	28.28	2.45	152.10	2.00	25.32	0.00	0.00
9.75	1.44	26.52	2.57	179.55	2.00	23.19	0.00	0.00
9.77	1.37	25.13	2.64	200.96	2.00	21.42	0.00	0.00
9.79	1.31	24.03	2.68	217.47	2.00	19.94	0.00	0.00
9.81	1.27	23.21	2.67	226.11	2.00	18.79	0.00	0.00
9.83	1.24	22.53	2.63	229.12	2.00	17.82	0.00	0.00
9.85	1.21	22.04	2.59	104.47	2.00	17.09	0.06	0.00
9.87	1.18	21.41	2.60	104.28	2.00	16.12	0.06	0.00
9.89	1.14	20.54	2.67	105.02	2.00	14.76	0.06	0.00
9.91	1.09	19.59	2.77	106.33	2.00	13.19	0.06	0.00
9.93	1.02	18.30	2.87	107.00	2.00	10.95	0.06	0.00
9.95	0.95	16.89	2.97	107.23	2.00	8.31	0.07	0.00
9.97	0.83	14.54	3.30	109.58	2.00	3.35	0.07	0.00
9.99	0.72	12.21	3.83	113.19	2.00	0.00	0.08	0.00
10.01	0.61	10.05	4.53	116.32	2.00	0.00	0.09	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
10.03	0.61	10.10	4.34	114.09	2.00	0.00	0.09	0.00
10.05	0.70	11.79	3.51	107.21	2.00	0.00	0.08	0.00
10.07	0.81	14.08	2.73	98.42	2.00	2.28	0.08	0.00
10.09	0.88	15.43	2.41	93.82	2.00	5.33	0.07	0.00
10.11	0.90	15.69	2.35	93.00	2.00	5.86	0.07	0.00
10.13	0.92	16.11	2.29	92.20	2.00	6.74	0.07	0.00
10.15	0.95	16.84	2.15	89.68	2.00	8.21	0.07	0.00
10.17	1.00	17.74	1.99	86.84	2.00	9.92	0.06	0.00
10.19	1.02	18.13	2.06	88.68	2.00	10.64	0.06	0.00
10.21	1.02	18.17	2.31	94.63	2.00	10.71	0.06	0.00
10.23	1.01	17.87	2.64	101.84	2.00	10.16	0.06	0.00
10.25	1.01	17.86	2.75	104.15	2.00	10.14	0.06	0.00
10.27	1.01	17.99	2.70	103.21	2.00	10.38	0.06	0.00
10.29	1.03	18.26	2.56	100.44	2.00	10.87	0.06	0.00
10.31	1.04	18.35	2.48	98.89	2.00	11.04	0.06	0.00
10.33	1.07	18.70	2.38	96.94	2.00	11.66	0.06	0.00
10.35	1.11	19.32	2.21	93.41	2.00	12.73	0.06	0.00
10.37	1.18	20.37	2.07	177.66	2.00	14.49	0.00	0.00
10.39	1.23	21.24	1.99	157.32	2.00	15.86	0.00	0.00
10.41	1.26	21.73	2.10	165.96	2.00	16.62	0.00	0.00
10.43	1.25	21.58	2.38	206.54	2.00	16.39	0.00	0.00
10.45	1.22	21.31	2.68	106.44	2.00	15.97	0.06	0.00
10.47	1.21	21.12	2.93	112.06	2.00	15.68	0.06	0.00
10.49	1.20	20.96	3.15	116.70	2.00	15.43	0.06	0.00
10.51	1.19	20.84	3.48	123.80	2.00	15.23	0.06	0.00
10.53	1.18	20.80	3.79	130.03	2.00	15.17	0.06	0.00
10.55	1.20	21.11	4.00	134.80	2.00	15.66	0.06	0.00
10.57	1.23	21.62	3.95	134.73	2.00	16.45	0.06	0.00
10.59	1.26	22.12	3.89	134.18	2.00	17.20	0.05	0.00
10.61	1.26	22.01	3.95	135.36	2.00	17.04	0.06	0.00
10.63	1.25	21.78	4.14	138.78	2.00	16.69	0.06	0.00
10.65	1.23	21.50	4.21	139.78	2.00	16.27	0.06	0.00
10.67	1.24	21.56	4.04	136.47	2.00	16.36	0.06	0.00
10.69	1.25	21.53	3.95	134.65	2.00	16.31	0.06	0.00
10.71	1.30	22.32	3.82	133.02	2.00	17.50	0.05	0.00
10.73	1.38	23.59	3.58	129.64	2.00	19.33	0.05	0.00
10.75	1.39	23.56	3.40	125.48	2.00	19.29	0.05	0.00
10.77	1.29	21.76	3.44	124.22	2.00	16.67	0.06	0.00
10.79	1.12	18.84	3.43	119.87	2.00	11.91	0.06	0.00
10.81	1.01	16.89	3.38	115.73	2.00	8.29	0.07	0.00
10.83	0.94	15.66	3.40	114.20	2.00	5.80	0.07	0.00
10.85	0.90	14.99	3.79	119.78	2.00	4.37	0.07	0.00
10.87	0.88	14.55	4.15	124.82	2.00	3.38	0.07	0.00
10.89	0.88	14.58	4.47	130.01	2.00	3.43	0.07	0.00
10.91	0.89	14.66	4.56	131.61	2.00	3.63	0.07	0.00
10.93	0.94	15.54	4.37	130.74	2.00	5.54	0.07	0.00
10.95	0.98	16.21	3.97	125.38	2.00	6.95	0.07	0.00
10.97	0.99	16.32	3.89	124.20	2.00	7.17	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
10.99	0.96	15.79	4.08	126.50	2.00	6.09	0.07	0.00
11.01	0.91	14.84	4.46	130.51	2.00	4.04	0.07	0.00
11.03	0.88	14.25	4.69	132.46	2.00	2.69	0.07	0.00
11.05	0.84	13.39	4.91	133.18	2.00	0.64	0.08	0.00
11.07	0.80	12.57	4.86	129.95	2.00	0.00	0.08	0.00
11.09	0.75	11.74	4.84	127.14	2.00	0.00	0.08	0.00
11.11	0.71	11.01	4.86	124.91	2.00	0.00	0.09	0.00
11.13	0.68	10.39	5.10	125.68	2.00	0.00	0.09	0.00
11.15	0.67	10.06	5.21	125.80	2.00	0.00	0.09	0.00
11.17	0.66	9.88	5.04	123.14	2.00	0.00	0.09	0.00
11.19	0.63	9.38	4.95	120.03	2.00	0.00	0.09	0.00
11.21	0.58	8.48	5.11	118.25	2.00	0.00	0.10	0.00
11.23	0.53	7.45	5.40	116.70	2.00	0.00	0.10	0.00
11.25	0.50	6.96	5.36	113.84	2.00	0.00	0.11	0.00
11.27	0.50	6.85	4.88	108.56	2.00	0.00	0.11	0.00
11.29	0.50	6.90	4.47	104.53	2.00	0.00	0.11	0.00
11.31	0.52	7.14	4.02	100.53	2.00	0.00	0.11	0.00
11.33	0.53	7.37	3.77	98.58	2.00	0.00	0.11	0.00
11.35	0.55	7.61	3.43	95.27	2.00	0.00	0.10	0.00
11.37	0.56	7.77	3.26	93.59	2.00	0.00	0.10	0.00
11.39	0.58	8.07	3.00	91.00	2.00	0.00	0.10	0.00
11.41	0.60	8.56	2.81	89.58	2.00	0.00	0.10	0.00
11.43	0.63	9.08	2.65	88.46	2.00	0.00	0.10	0.00
11.45	0.66	9.43	2.60	88.44	2.00	0.00	0.09	0.00
11.47	0.66	9.43	2.65	89.25	2.00	0.00	0.09	0.00
11.49	0.64	9.13	2.70	89.33	2.00	0.00	0.10	0.00
11.51	0.63	8.85	2.70	88.58	2.00	0.00	0.10	0.00
11.53	0.62	8.74	2.58	86.59	2.00	0.00	0.10	0.00
11.55	0.63	8.85	2.46	84.85	2.00	0.00	0.10	0.00
11.57	0.64	8.92	2.41	84.24	2.00	0.00	0.10	0.00
11.59	0.64	8.97	2.41	84.34	2.00	0.00	0.10	0.00
11.61	0.64	8.98	2.41	84.49	2.00	0.00	0.10	0.00
11.63	0.65	9.17	2.36	83.97	2.00	0.00	0.10	0.00
11.65	0.68	9.64	2.25	83.04	2.00	0.00	0.09	0.00
11.67	0.72	10.32	2.16	82.69	2.00	0.00	0.09	0.00
11.69	0.75	10.67	2.18	83.54	2.00	0.00	0.09	0.00
11.71	0.75	10.69	2.33	86.21	2.00	0.00	0.09	0.00
11.73	0.74	10.52	2.31	85.58	2.00	0.00	0.09	0.00
11.75	0.76	10.87	2.18	83.80	2.00	0.00	0.09	0.00
11.77	0.82	11.71	1.97	80.96	2.00	0.00	0.08	0.00
11.79	0.89	12.79	1.95	81.60	2.00	0.00	0.08	0.00
11.81	0.95	13.62	1.97	83.03	2.00	1.21	0.08	0.00
11.83	0.99	14.19	2.00	84.13	2.00	2.54	0.08	0.00
11.85	1.01	14.48	2.03	85.12	2.00	3.22	0.07	0.00
11.87	1.02	14.57	2.10	86.87	2.00	3.43	0.07	0.00
11.89	1.00	14.29	2.17	88.04	2.00	2.78	0.07	0.00
11.91	0.96	13.76	2.24	88.81	2.00	1.55	0.08	0.00
11.93	0.93	13.20	2.29	89.30	2.00	0.16	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
11.95	0.90	12.84	2.42	91.23	2.00	0.00	0.08	0.00
11.97	0.90	12.70	2.53	93.21	2.00	0.00	0.08	0.00
11.99	0.90	12.80	2.53	93.39	2.00	0.00	0.08	0.00
12.01	0.93	13.12	2.44	92.16	2.00	0.00	0.08	0.00
12.03	0.97	13.68	2.32	90.51	2.00	1.35	0.08	0.00
12.05	1.00	14.06	2.28	90.10	2.00	2.26	0.08	0.00
12.07	1.02	14.31	2.27	90.21	2.00	2.82	0.07	0.00
12.09	1.00	14.10	2.38	92.26	2.00	2.34	0.08	0.00
12.11	1.00	14.02	2.28	90.10	2.00	2.15	0.08	0.00
12.13	1.12	15.69	1.94	84.17	2.00	5.87	0.07	0.00
12.15	1.41	19.64	1.55	119.25	2.00	13.28	0.00	0.00
12.17	2.07	28.56	1.21	70.11	2.00	25.64	0.00	0.00
12.19	2.54	34.87	1.15	71.04	2.00	32.23	0.00	0.00
12.21	2.78	38.09	1.16	72.74	2.00	35.14	0.00	0.00
12.23	2.55	35.15	1.31	76.11	2.00	32.49	0.00	0.00
12.25	2.30	31.95	1.60	83.38	2.00	29.34	0.00	0.00
12.27	2.03	28.44	2.07	113.09	2.00	25.50	0.00	0.00
12.29	1.84	25.98	2.59	189.37	2.00	22.51	0.00	0.00
12.31	1.76	24.97	2.86	235.72	2.00	21.20	0.00	0.00
12.33	1.88	26.62	2.87	219.35	2.00	23.32	0.00	0.00
12.35	2.08	29.25	2.79	185.34	2.00	26.42	0.00	0.00
12.37	2.21	31.01	2.76	169.26	2.00	28.35	0.00	0.00
12.39	2.07	29.09	2.77	184.27	2.00	26.24	0.00	0.00
12.41	1.84	25.70	2.80	218.98	2.00	22.15	0.00	0.00
12.43	1.63	22.68	2.80	110.89	2.00	18.03	0.05	0.00
12.45	1.60	22.12	2.72	108.25	2.00	17.21	0.05	0.00
12.47	1.66	22.95	2.71	108.86	2.00	18.41	0.05	0.00
12.49	1.83	25.29	2.68	207.42	2.00	21.62	0.00	0.00
12.51	2.04	28.23	2.65	176.94	2.00	25.25	0.00	0.00
12.53	2.10	28.94	2.68	175.69	2.00	26.07	0.00	0.00
12.55	1.93	26.59	2.76	205.01	2.00	23.28	0.00	0.00
12.57	1.61	22.09	2.83	110.85	2.00	17.16	0.05	0.00
12.59	1.36	18.42	2.75	105.22	2.00	11.16	0.06	0.00
12.61	1.22	16.33	2.62	99.91	2.00	7.19	0.07	0.00
12.63	1.20	16.06	2.53	97.64	2.00	6.63	0.07	0.00
12.65	1.28	17.05	2.31	94.01	2.00	8.61	0.07	0.00
12.67	1.48	19.70	1.96	172.17	2.00	13.38	0.00	0.00
12.69	1.85	24.49	1.66	96.59	2.00	20.57	0.00	0.00
12.71	2.27	29.98	1.49	79.32	2.00	27.24	0.00	0.00
12.73	2.61	34.42	1.43	79.31	2.00	31.80	0.00	0.00
12.75	2.67	35.17	1.44	80.08	2.00	32.51	0.00	0.00
12.77	2.51	33.02	1.52	81.62	2.00	30.43	0.00	0.00
12.79	2.18	28.78	1.81	87.85	2.00	25.90	0.00	0.00
12.81	1.83	24.22	1.99	132.96	2.00	20.19	0.00	0.00
12.83	1.70	22.29	1.97	146.15	2.00	17.45	0.00	0.00
12.85	2.06	26.78	1.43	76.31	2.00	23.51	0.00	0.00
12.87	2.63	34.02	1.18	71.53	2.00	31.41	0.00	0.00
12.89	2.99	38.44	1.12	71.75	2.00	35.44	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
12.91	2.83	36.35	1.18	72.63	2.00	33.60	0.00	0.00
12.93	2.47	31.85	1.30	74.21	2.00	29.24	0.00	0.00
12.95	2.20	28.53	1.58	81.49	2.00	25.60	0.00	0.00
12.97	2.02	26.26	2.00	119.08	2.00	22.86	0.00	0.00
12.99	1.81	23.59	2.50	201.25	2.00	19.33	0.00	0.00
13.01	1.66	21.70	2.72	107.92	2.00	16.57	0.06	0.00
13.03	1.60	20.86	2.74	107.59	2.00	15.26	0.06	0.00
13.05	1.66	21.54	2.63	105.73	2.00	16.33	0.06	0.00
13.07	1.70	22.03	2.54	104.08	2.00	17.07	0.06	0.00
13.09	1.68	21.69	2.48	102.21	2.00	16.56	0.06	0.00
13.11	1.69	21.71	2.22	184.27	2.00	16.58	0.00	0.00
13.13	1.79	22.85	1.96	139.75	2.00	18.28	0.00	0.00
13.15	1.97	25.12	1.82	108.53	2.00	21.40	0.00	0.00
13.17	2.13	27.10	1.85	99.94	2.00	23.90	0.00	0.00
13.19	2.13	27.14	1.97	111.18	2.00	23.95	0.00	0.00
13.21	2.03	25.81	2.08	130.90	2.00	22.29	0.00	0.00
13.23	1.86	23.54	2.16	158.52	2.00	19.25	0.00	0.00
13.25	1.81	22.89	2.20	168.80	2.00	18.34	0.00	0.00
13.27	1.85	23.41	2.18	161.35	2.00	19.08	0.00	0.00
13.29	1.95	24.60	2.15	148.38	2.00	20.71	0.00	0.00
13.31	2.06	25.96	2.15	137.54	2.00	22.49	0.00	0.00
13.33	2.47	31.13	1.95	89.77	2.00	28.49	0.00	0.00
13.35	3.06	38.18	1.52	84.01	2.00	35.22	0.00	0.00
13.37	3.57	44.20	1.26	79.55	2.00	40.05	0.00	0.00
13.39	3.63	44.70	1.08	74.62	2.00	40.42	0.00	0.00
13.41	3.37	41.61	1.23	76.95	2.00	38.06	0.00	0.00
13.43	3.02	37.44	1.45	81.57	2.00	34.57	0.00	0.00
13.45	2.72	33.93	1.85	92.16	2.00	31.33	0.00	0.00
13.47	2.55	31.91	2.20	108.39	2.00	29.30	0.00	0.00
13.49	2.42	30.25	2.54	150.47	2.00	27.54	0.00	0.00
13.51	2.21	27.70	2.82	203.52	2.00	24.63	0.00	0.00
13.53	2.02	25.26	3.03	257.01	2.00	21.59	0.00	0.00
13.55	1.88	23.39	3.11	118.90	2.00	19.04	0.05	0.00
13.57	1.85	22.86	3.07	117.38	2.00	18.28	0.05	0.00
13.59	1.84	22.68	2.88	112.75	2.00	18.03	0.05	0.00
13.61	1.92	23.59	2.60	215.58	2.00	19.32	0.00	0.00
13.63	2.28	27.93	2.24	133.40	2.00	24.90	0.00	0.00
13.65	2.71	33.18	2.04	97.67	2.00	30.59	0.00	0.00
13.67	2.94	35.92	1.84	92.72	2.00	33.20	0.00	0.00
13.69	2.85	34.73	1.80	91.05	2.00	32.10	0.00	0.00
13.71	2.65	32.14	1.86	91.55	2.00	29.54	0.00	0.00
13.73	2.50	30.51	2.20	115.46	2.00	27.81	0.00	0.00
13.75	2.30	28.05	2.72	188.06	2.00	25.04	0.00	0.00
13.77	2.08	25.41	3.31	125.99	2.00	21.77	0.05	0.00
13.79	1.87	22.82	3.76	132.78	2.00	18.23	0.05	0.00
13.81	1.76	21.37	3.80	131.63	2.00	16.07	0.06	0.00
13.83	1.70	20.53	3.62	126.54	2.00	14.75	0.06	0.00
13.85	1.69	20.29	3.34	120.26	2.00	14.35	0.06	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
13.87	1.75	20.93	2.99	113.42	2.00	15.38	0.06	0.00
13.89	2.03	24.30	2.55	200.66	2.00	20.30	0.00	0.00
13.91	2.35	28.08	2.24	132.99	2.00	25.07	0.00	0.00
13.93	2.61	31.18	2.06	99.52	2.00	28.53	0.00	0.00
13.95	2.69	32.09	2.01	90.99	2.00	29.48	0.00	0.00
13.97	2.77	32.95	1.99	95.94	2.00	30.35	0.00	0.00
13.99	2.88	34.24	1.98	96.40	2.00	31.63	0.00	0.00
14.01	2.95	34.95	1.97	96.20	2.00	32.30	0.00	0.00
14.03	2.93	34.71	1.98	96.38	2.00	32.08	0.00	0.00
14.05	2.83	33.44	2.02	97.13	2.00	30.84	0.00	0.00
14.07	2.66	31.44	2.18	109.13	2.00	28.81	0.00	0.00
14.09	2.54	29.98	2.35	132.62	2.00	27.24	0.00	0.00
14.11	2.71	31.90	2.24	111.93	2.00	29.29	0.00	0.00
14.13	2.93	34.41	2.13	100.90	2.00	31.79	0.00	0.00
14.15	3.04	35.66	2.03	98.46	2.00	32.97	0.00	0.00
14.17	2.91	34.11	2.21	100.21	2.00	31.50	0.00	0.00
14.19	2.84	33.35	2.40	119.82	2.00	30.75	0.00	0.00
14.21	2.86	33.50	2.48	126.63	2.00	30.90	0.00	0.00
14.23	2.70	31.60	2.62	151.28	2.00	28.98	0.00	0.00
14.25	2.43	28.29	2.73	186.78	2.00	25.33	0.00	0.00
14.27	2.22	25.76	2.90	233.87	2.00	22.23	0.00	0.00
14.29	2.24	25.83	2.79	217.09	2.00	22.32	0.00	0.00
14.31	2.30	26.49	2.71	199.92	2.00	23.16	0.00	0.00
14.33	2.25	25.86	2.73	209.60	2.00	22.36	0.00	0.00
14.35	2.14	24.49	2.87	244.24	2.00	20.56	0.00	0.00
14.37	2.08	23.73	2.94	115.28	2.00	19.52	0.05	0.00
14.39	2.11	24.15	2.92	115.33	2.00	20.10	0.05	0.00
14.41	2.28	26.03	2.72	206.31	2.00	22.58	0.00	0.00
14.43	2.50	28.61	2.51	158.27	2.00	25.69	0.00	0.00
14.45	2.80	32.02	2.29	116.33	2.00	29.41	0.00	0.00
14.47	3.12	35.61	2.10	100.71	2.00	32.92	0.00	0.00
14.49	3.28	37.37	1.98	97.94	2.00	34.51	0.00	0.00
14.51	3.36	38.22	1.89	95.73	2.00	35.25	0.00	0.00
14.53	3.38	38.32	1.82	93.48	2.00	35.34	0.00	0.00
14.55	3.50	39.53	1.73	91.31	2.00	36.36	0.00	0.00
14.57	3.59	40.49	1.65	89.23	2.00	37.16	0.00	0.00
14.59	3.48	39.18	1.55	85.61	2.00	36.07	0.00	0.00
14.61	3.35	37.48	1.48	82.40	2.00	34.61	0.00	0.00
14.63	2.95	33.07	1.81	90.71	2.00	30.48	0.00	0.00
14.65	2.63	29.46	2.38	139.24	2.00	26.66	0.00	0.00
14.67	2.21	24.66	3.16	121.52	2.00	20.79	0.05	0.00
14.69	2.06	22.83	3.21	120.69	2.00	18.25	0.05	0.00
14.71	2.08	23.02	2.98	115.65	2.00	18.52	0.05	0.00
14.73	2.34	25.85	2.60	192.56	2.00	22.35	0.00	0.00
14.75	2.67	29.65	2.26	125.33	2.00	26.87	0.00	0.00
14.77	2.96	32.72	1.93	94.19	2.00	30.13	0.00	0.00
14.79	2.94	32.49	1.77	89.15	2.00	29.89	0.00	0.00
14.81	2.79	30.61	1.79	88.73	2.00	27.93	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
14.83	2.56	28.12	2.03	111.97	2.00	25.12	0.00	0.00
14.85	2.47	27.08	2.32	148.57	2.00	23.88	0.00	0.00
14.87	2.32	25.38	2.66	205.25	2.00	21.74	0.00	0.00
14.89	2.18	23.70	2.94	115.39	2.00	19.48	0.05	0.00
14.91	2.45	26.76	2.66	191.75	2.00	23.49	0.00	0.00
14.93	2.98	32.61	2.26	110.34	2.00	30.01	0.00	0.00
14.95	3.53	38.79	2.04	100.47	2.00	35.75	0.00	0.00
14.97	3.59	39.29	1.99	99.19	2.00	36.16	0.00	0.00
14.99	3.31	36.11	2.00	97.85	2.00	33.38	0.00	0.00
15.01	2.86	30.94	1.97	92.59	2.00	28.28	0.00	0.00
15.03	2.31	24.82	2.34	168.72	2.00	21.00	0.00	0.00
15.05	2.06	21.91	2.69	107.51	2.00	16.89	0.06	0.00
15.07	2.07	22.01	2.88	112.23	2.00	17.03	0.06	0.00
15.09	2.24	23.94	2.64	218.38	2.00	19.81	0.00	0.00
15.11	2.21	23.56	2.66	224.59	2.00	19.29	0.00	0.00
15.13	2.13	22.60	2.62	106.60	2.00	17.92	0.05	0.00
15.15	2.15	22.70	2.50	212.35	2.00	18.05	0.00	0.00
15.17	2.16	22.76	2.36	192.09	2.00	18.15	0.00	0.00
15.19	2.04	21.41	2.41	215.69	2.00	16.13	0.00	0.00
15.21	1.87	19.48	2.59	102.88	2.00	13.01	0.06	0.00
15.23	1.63	16.70	2.92	106.71	2.00	7.93	0.07	0.00
15.25	1.44	14.58	3.09	106.79	2.00	3.44	0.07	0.00
15.27	1.27	12.51	3.25	105.63	2.00	0.00	0.08	0.00
15.29	1.33	13.29	2.83	99.79	2.00	0.38	0.08	0.00
15.31	1.52	15.34	2.48	95.99	2.00	5.12	0.07	0.00
15.33	1.72	17.49	2.19	91.71	2.00	9.45	0.07	0.00
15.35	1.73	17.65	2.17	91.52	2.00	9.75	0.07	0.00
15.37	1.56	15.67	2.32	92.79	2.00	5.83	0.07	0.00
15.39	1.34	13.24	2.56	94.60	2.00	0.26	0.08	0.00
15.41	1.24	12.02	2.58	93.08	2.00	0.00	0.08	0.00
15.43	1.36	13.31	2.22	87.98	2.00	0.45	0.08	0.00
15.45	1.70	17.12	1.87	83.74	2.00	8.74	0.07	0.00
15.47	2.15	21.97	1.57	104.04	2.00	16.98	0.00	0.00
15.49	2.38	24.48	1.54	85.56	2.00	20.55	0.00	0.00
15.51	2.51	25.83	1.52	77.10	2.00	22.33	0.00	0.00
15.53	2.77	28.62	1.42	76.83	2.00	25.71	0.00	0.00
15.55	3.14	32.56	1.36	76.47	2.00	29.97	0.00	0.00
15.57	3.31	34.33	1.37	77.56	2.00	31.71	0.00	0.00
15.59	3.26	33.76	1.45	79.77	2.00	31.15	0.00	0.00
15.61	3.28	33.92	1.49	81.29	2.00	31.31	0.00	0.00
15.63	3.29	34.01	1.60	84.57	2.00	31.41	0.00	0.00
15.65	3.07	31.66	1.78	89.10	2.00	29.04	0.00	0.00
15.67	2.64	27.00	2.14	129.76	2.00	23.78	0.00	0.00
15.69	2.24	22.62	2.63	106.78	2.00	17.94	0.05	0.00
15.71	1.94	19.37	3.30	118.37	2.00	12.83	0.06	0.00
15.73	1.80	17.83	3.54	120.67	2.00	10.08	0.06	0.00
15.75	1.93	19.26	3.00	111.74	2.00	12.63	0.06	0.00
15.77	2.15	21.55	2.38	209.82	2.00	16.34	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
15.79	2.57	25.94	1.76	97.97	2.00	22.46	0.00	0.00
15.81	2.65	26.72	1.49	78.26	2.00	23.44	0.00	0.00
15.83	2.59	25.97	1.34	73.40	2.00	22.50	0.00	0.00
15.85	2.18	21.57	1.58	108.22	2.00	16.37	0.00	0.00
15.87	1.98	19.44	1.86	162.13	2.00	12.94	0.00	0.00
15.89	1.97	19.27	2.03	187.99	2.00	12.66	0.00	0.00
15.91	2.00	19.62	2.11	195.78	2.00	13.24	0.00	0.00
15.93	1.87	18.16	2.34	95.96	2.00	10.69	0.06	0.00
15.95	1.60	15.30	2.75	101.40	2.00	5.03	0.07	0.00
15.97	1.40	13.15	3.08	104.06	2.00	0.03	0.08	0.00
15.99	1.30	11.98	3.23	104.25	2.00	0.00	0.08	0.00
16.01	1.30	11.99	3.17	103.22	2.00	0.00	0.08	0.00
16.03	1.33	12.22	3.00	100.93	2.00	0.00	0.08	0.00
16.05	1.40	12.96	2.74	97.66	2.00	0.00	0.08	0.00
16.07	1.50	14.09	2.35	91.65	2.00	2.31	0.08	0.00
16.09	1.50	14.00	2.22	88.86	2.00	2.10	0.08	0.00
16.11	1.40	12.90	2.29	88.96	2.00	0.00	0.08	0.00
16.13	1.25	11.27	2.46	89.71	2.00	0.00	0.09	0.00
16.15	1.18	10.50	2.57	90.20	2.00	0.00	0.09	0.00
16.17	1.15	10.20	2.55	89.23	2.00	0.00	0.09	0.00
16.19	1.13	9.97	2.61	89.79	2.00	0.00	0.09	0.00
16.21	1.12	9.82	2.55	88.49	2.00	0.00	0.09	0.00
16.23	1.12	9.79	2.41	86.18	2.00	0.00	0.09	0.00
16.25	1.12	9.77	2.29	84.03	2.00	0.00	0.09	0.00
16.27	1.13	9.82	2.20	82.59	2.00	0.00	0.09	0.00
16.29	1.14	9.92	2.18	82.45	2.00	0.00	0.09	0.00
16.31	1.16	10.19	2.15	82.29	2.00	0.00	0.09	0.00
16.33	1.20	10.53	2.16	83.11	2.00	0.00	0.09	0.00
16.35	1.22	10.77	2.17	83.54	2.00	0.00	0.09	0.00
16.37	1.25	10.99	2.18	84.19	2.00	0.00	0.09	0.00
16.39	1.28	11.34	2.17	84.42	2.00	0.00	0.09	0.00
16.41	1.33	11.82	2.18	85.35	2.00	0.00	0.08	0.00
16.43	1.37	12.22	2.22	86.61	2.00	0.00	0.08	0.00
16.45	1.48	13.34	2.14	86.45	2.00	0.50	0.08	0.00
16.47	1.65	15.06	2.01	85.55	2.00	4.52	0.07	0.00
16.49	1.84	17.02	1.94	85.61	2.00	8.56	0.07	0.00
16.51	1.94	18.11	2.04	88.76	2.00	10.59	0.06	0.00
16.53	1.92	17.85	2.12	90.40	2.00	10.13	0.06	0.00
16.55	1.72	15.70	2.22	90.68	2.00	5.89	0.07	0.00
16.57	1.48	13.19	2.12	85.87	2.00	0.13	0.08	0.00
16.59	1.26	10.89	2.14	83.20	2.00	0.00	0.09	0.00
16.61	1.16	9.90	2.23	83.31	2.00	0.00	0.09	0.00
16.63	1.08	9.02	2.87	91.74	2.00	0.00	0.10	0.00
16.65	1.02	8.34	3.56	99.49	2.00	0.00	0.10	0.00
16.67	0.97	7.83	4.15	104.95	2.00	0.00	0.10	0.00
16.69	0.94	7.46	4.25	104.70	2.00	0.00	0.10	0.00
16.71	0.92	7.29	4.20	103.41	2.00	0.00	0.11	0.00
16.73	0.92	7.31	3.80	98.85	2.00	0.00	0.11	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
16.75	0.93	7.34	3.29	92.75	2.00	0.00	0.11	0.00
16.77	0.93	7.33	2.71	85.08	2.00	0.00	0.11	0.00
16.79	0.92	7.27	2.44	80.94	2.00	0.00	0.11	0.00
16.81	0.93	7.30	2.31	79.21	2.00	0.00	0.11	0.00
16.83	0.93	7.32	2.31	79.24	2.00	0.00	0.11	0.00
16.85	0.93	7.29	2.30	78.96	2.00	0.00	0.11	0.00
16.87	0.92	7.22	2.32	79.11	2.00	0.00	0.11	0.00
16.89	0.91	7.08	2.33	78.95	2.00	0.00	0.11	0.00
16.91	0.92	7.13	2.30	78.58	2.00	0.00	0.11	0.00
16.93	0.94	7.30	2.21	77.62	2.00	0.00	0.11	0.00
16.95	0.96	7.54	2.13	76.90	2.00	0.00	0.10	0.00
16.97	0.97	7.62	2.09	76.48	2.00	0.00	0.10	0.00
16.99	0.95	7.42	2.16	77.12	2.00	0.00	0.10	0.00
17.01	0.94	7.33	2.22	77.95	2.00	0.00	0.11	0.00
17.03	0.94	7.29	2.29	78.91	2.00	0.00	0.11	0.00
17.05	0.96	7.43	2.31	79.50	2.00	0.00	0.10	0.00
17.07	0.97	7.54	2.30	79.68	2.00	0.00	0.10	0.00
17.09	0.97	7.58	2.30	79.69	2.00	0.00	0.10	0.00
17.11	0.99	7.75	2.24	79.22	2.00	0.00	0.10	0.00
17.13	1.01	7.88	2.18	78.48	2.00	0.00	0.10	0.00
17.15	1.02	7.99	2.09	77.28	2.00	0.00	0.10	0.00
17.17	1.02	8.01	1.99	75.74	2.00	0.00	0.10	0.00
17.19	1.04	8.15	1.89	74.25	2.00	0.00	0.10	0.00
17.21	1.07	8.41	1.81	73.23	2.00	0.00	0.10	0.00
17.23	1.08	8.52	1.79	73.09	2.00	0.00	0.10	0.00
17.25	1.07	8.41	1.82	73.43	2.00	0.00	0.10	0.00
17.27	1.05	8.25	1.87	74.10	2.00	0.00	0.10	0.00
17.29	1.06	8.31	1.88	74.26	2.00	0.00	0.10	0.00
17.31	1.07	8.42	1.85	74.06	2.00	0.00	0.10	0.00
17.33	1.08	8.45	1.82	73.53	2.00	0.00	0.10	0.00
17.35	1.08	8.46	1.80	73.15	2.00	0.00	0.10	0.00
17.37	1.10	8.60	1.78	72.96	2.00	0.00	0.10	0.00
17.39	1.12	8.81	1.74	72.68	2.00	0.00	0.10	0.00
17.41	1.14	8.98	1.70	72.16	2.00	0.00	0.10	0.00
17.43	1.15	9.13	1.68	71.85	2.00	0.00	0.10	0.00
17.45	1.18	9.35	1.65	71.71	2.00	0.00	0.09	0.00
17.47	1.23	9.88	1.62	71.75	2.00	0.00	0.09	0.00
17.49	1.29	10.43	1.57	71.24	2.00	0.00	0.09	0.00
17.51	1.34	10.86	1.53	70.90	2.00	0.00	0.09	0.00
17.53	1.34	10.89	1.57	71.89	2.00	0.00	0.09	0.00
17.55	1.32	10.66	1.72	74.68	2.00	0.00	0.09	0.00
17.57	1.28	10.25	1.91	78.02	2.00	0.00	0.09	0.00
17.59	1.22	9.67	2.14	81.26	2.00	0.00	0.09	0.00
17.61	1.18	9.19	2.35	84.01	2.00	0.00	0.09	0.00
17.63	1.16	9.00	2.51	86.23	2.00	0.00	0.10	0.00
17.65	1.19	9.31	2.48	86.42	2.00	0.00	0.09	0.00
17.67	1.30	10.36	2.27	84.77	2.00	0.00	0.09	0.00
17.69	2.35	20.57	1.19	75.23	2.00	14.81	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
17.71	7.63	72.10	0.35	72.10	2.00	56.20	0.00	0.00
17.73	14.13	135.74	0.23	135.74	2.00	77.09	0.00	0.00
17.75	19.99	193.07	0.20	193.07	2.00	88.71	0.00	0.00
17.77	21.46	207.31	0.24	207.31	2.00	91.06	0.00	0.00
17.79	22.52	217.50	0.27	217.50	2.00	92.65	0.00	0.00
17.81	23.03	222.23	0.31	222.23	2.00	93.36	0.00	0.00
17.83	24.20	233.41	0.34	233.41	2.00	94.98	0.00	0.00
17.85	24.57	236.87	0.36	236.87	2.00	95.46	0.00	0.00
17.87	25.04	241.30	0.35	241.30	2.00	96.07	0.00	0.00
17.89	24.41	234.93	0.36	234.93	2.00	95.19	0.00	0.00
17.91	23.39	224.72	0.37	224.72	2.00	93.72	0.00	0.00
17.93	21.92	210.10	0.45	210.10	2.00	91.50	0.00	0.00
17.95	20.63	197.12	0.56	197.12	2.00	89.40	0.00	0.00
17.97	19.93	189.90	0.76	189.90	2.00	88.17	0.00	0.00
17.99	20.16	191.76	0.86	191.76	2.00	88.49	0.00	0.00
18.01	21.35	203.06	0.85	203.06	2.00	90.38	0.00	0.00
18.03	22.40	213.18	0.74	213.18	2.00	91.99	0.00	0.00
18.05	23.27	221.59	0.66	221.59	2.00	93.26	0.00	0.00
18.07	23.65	225.13	0.63	225.13	2.00	93.79	0.00	0.00
18.09	23.73	225.84	0.57	225.84	2.00	93.89	0.00	0.00
18.11	23.82	226.37	0.59	226.37	2.00	93.97	0.00	0.00
18.13	23.94	227.37	0.60	227.37	2.00	94.11	0.00	0.00
18.15	24.34	230.90	0.65	230.90	2.00	94.62	0.00	0.00
18.17	24.59	233.07	0.64	233.07	2.00	94.93	0.00	0.00
18.19	24.12	228.27	0.65	228.27	2.00	94.24	0.00	0.00
18.21	23.37	220.96	0.63	220.96	2.00	93.17	0.00	0.00
18.23	21.83	205.97	0.59	205.97	2.00	90.85	0.00	0.00
18.25	20.91	197.01	0.58	197.01	2.00	89.38	0.00	0.00
18.27	20.17	189.56	0.65	189.56	2.00	88.11	0.00	0.00
18.29	20.46	191.97	0.74	191.97	2.00	88.53	0.00	0.00
18.31	20.50	191.91	0.83	191.91	2.00	88.52	0.00	0.00
18.33	19.87	185.69	0.86	185.69	2.00	87.43	0.00	0.00
18.35	19.03	177.20	0.98	184.01	2.00	85.88	0.00	0.00
18.37	17.66	163.59	1.28	193.98	2.00	83.25	0.00	0.00
18.39	17.23	158.78	1.71	199.99	2.00	82.26	0.00	0.00
18.41	17.40	159.86	2.10	208.94	2.00	82.48	0.00	0.00
18.43	19.78	181.91	2.17	234.44	2.00	86.75	0.00	0.00
18.45	22.16	203.98	2.20	259.07	2.00	90.53	0.00	0.00
18.47	24.17	222.54	2.23	280.04	2.00	93.40	0.00	0.00
18.49	25.39	233.41	2.39	295.59	2.00	94.98	0.00	0.00
18.51	27.27	250.60	2.43	315.59	2.00	97.32	0.00	0.00
18.53	28.51	261.74	2.52	329.95	2.00	98.76	0.00	0.00
18.55	30.77	282.81	2.34	348.12	2.00	100.00	0.00	0.00
18.57	32.47	298.51	2.24	361.11	2.00	100.00	0.00	0.00
18.59	34.57	318.01	2.08	373.32	2.00	100.00	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)

Total estimated displacement: 0.01

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
5.23	0.20	3.73	22.06	82.29	3.52	0.12	1.74
5.25	0.25	4.57	20.15	92.03	3.47	0.12	2.10
5.27	0.27	5.00	19.10	95.55	3.43	0.24	2.26
5.29	0.30	5.59	17.61	98.38	3.39	0.17	2.49
5.31	0.29	5.40	17.21	92.99	3.37	0.16	2.38
5.33	0.52	10.04	8.81	88.51	3.00	0.17	4.35
5.35	1.05	20.47	3.92	80.26	2.62	0.79	0.79
5.37	1.69	33.12	2.25	74.64	2.38	0.37	0.69
5.39	2.23	43.77	1.75	76.46	2.25	0.43	0.70
5.41	2.56	50.17	1.57	78.80	2.18	0.53	0.70
5.43	2.75	53.97	1.53	82.54	2.16	0.71	0.71
5.45	2.78	54.56	1.59	87.02	2.19	0.72	0.72
5.47	2.62	51.27	1.85	94.69	2.28	0.74	0.74
5.49	2.42	47.34	2.21	104.73	2.37	0.76	0.76
5.51	2.27	44.41	2.59	114.91	2.44	0.77	0.77
5.53	2.18	42.75	2.86	122.35	2.48	0.79	0.79
5.55	2.10	41.13	3.16	129.91	2.53	0.81	0.81
5.57	1.98	38.75	3.48	134.70	2.57	0.85	0.85
5.59	1.90	37.21	3.63	135.00	2.59	0.87	0.87
5.61	1.88	36.64	3.54	129.76	2.57	0.85	0.85
5.63	1.86	36.33	3.46	125.77	2.57	0.84	0.84
5.65	1.88	36.74	3.31	121.66	2.55	0.81	0.81
5.67	1.94	37.94	3.13	118.86	2.52	0.79	0.79
5.69	2.05	40.12	2.99	119.87	2.50	0.77	0.77
5.71	2.13	41.53	3.01	125.06	2.50	0.78	0.78
5.73	2.15	41.92	3.19	133.52	2.53	0.82	0.82
5.75	2.05	40.01	3.64	145.59	2.59	0.89	0.89
5.77	2.03	39.63	3.89	154.32	2.62	0.92	0.92
5.79	2.02	39.39	4.07	160.46	2.64	0.95	0.95
5.81	2.04	39.86	4.04	160.87	2.63	0.95	0.95
5.83	2.00	39.01	4.15	161.96	2.64	0.96	0.96
5.85	1.97	38.50	4.11	158.21	2.64	0.95	0.95
5.87	1.93	37.64	4.12	154.94	2.64	0.95	0.95
5.89	1.86	36.17	4.16	150.50	2.65	0.95	0.95
5.91	1.77	34.40	4.43	152.48	2.67	0.98	0.98
5.93	1.77	34.44	4.43	152.41	2.67	0.97	0.97
5.95	1.85	35.93	4.25	152.78	2.65	0.96	0.96
5.97	1.99	38.77	3.87	150.10	2.61	0.92	0.92
5.99	2.10	40.98	3.61	147.89	2.58	0.89	0.89
6.01	2.18	42.56	3.43	146.18	2.56	0.86	0.86
6.03	2.23	43.47	3.29	143.21	2.54	0.84	0.84
6.05	2.33	45.42	3.15	143.25	2.52	0.83	0.83
6.07	2.35	45.82	3.14	144.10	2.52	0.83	0.83
6.09	2.29	44.64	3.33	148.61	2.55	0.86	0.86
6.11	2.14	41.57	3.72	154.48	2.60	0.91	0.91
6.13	2.01	39.08	4.11	160.71	2.64	0.96	0.96
6.15	1.90	36.89	4.53	167.21	2.68	1.01	1.01
6.17	1.80	34.97	4.85	169.77	2.71	0.85	0.85

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
6.19	1.70	33.02	5.21	172.15	2.75	0.86	0.86
6.21	1.64	31.67	5.49	173.99	2.77	0.86	0.86
6.23	1.57	30.42	5.78	175.74	2.79	0.86	0.86
6.25	1.50	29.04	6.09	176.97	2.82	0.86	0.86
6.27	1.40	27.04	6.55	177.11	2.85	0.86	0.86
6.29	1.31	25.30	7.05	178.41	2.89	0.86	0.86
6.31	1.24	23.92	7.59	181.49	2.93	0.87	0.87
6.33	1.17	22.46	8.25	185.35	2.97	0.87	0.87
6.35	1.13	21.59	8.68	187.36	2.99	0.87	0.87
6.37	1.12	21.43	8.79	188.42	3.00	0.81	4.58
6.39	1.13	21.59	8.85	191.04	3.00	0.84	4.57
6.41	1.09	20.84	9.19	191.42	3.02	0.87	4.37
6.43	1.03	19.59	9.61	188.22	3.05	0.79	4.07
6.45	0.99	18.85	9.56	180.11	3.04	0.72	3.88
6.47	1.00	18.98	9.07	172.23	3.02	0.67	3.87
6.49	1.03	19.55	8.39	164.00	2.98	0.85	0.85
6.51	1.09	20.89	7.28	152.16	2.91	0.83	0.83
6.53	1.24	23.65	5.83	137.92	2.80	0.81	0.81
6.55	1.47	28.20	4.36	122.89	2.67	0.92	0.92
6.57	1.81	34.96	3.14	109.85	2.52	0.77	0.77
6.59	2.08	40.40	2.60	104.91	2.44	0.76	0.76
6.61	2.25	43.61	2.45	106.65	2.41	0.76	0.76
6.63	2.22	43.12	2.71	116.75	2.46	0.78	0.78
6.65	2.12	41.12	3.14	129.15	2.52	0.80	0.80
6.67	2.04	39.40	3.52	138.54	2.57	0.86	0.86
6.69	1.81	35.03	4.41	154.47	2.67	0.98	0.98
6.71	1.59	30.54	5.60	171.11	2.78	0.85	0.85
6.73	1.34	25.65	7.18	184.23	2.90	0.87	0.87
6.75	1.28	24.54	7.36	180.75	2.91	0.87	0.87
6.77	1.34	25.71	6.65	170.98	2.86	0.85	0.85
6.79	1.35	25.80	6.48	167.23	2.85	0.85	0.85
6.81	1.30	24.82	6.71	166.65	2.87	0.85	0.85
6.83	1.18	22.42	7.33	164.43	2.91	0.85	0.85
6.85	1.11	21.08	7.48	157.65	2.92	0.84	0.84
6.87	1.10	20.83	7.14	148.63	2.90	0.83	0.83
6.89	1.30	24.79	5.41	134.20	2.76	0.80	0.80
6.91	2.64	51.20	1.96	100.16	2.31	0.75	0.75
6.93	4.69	91.71	1.28	117.25	1.96	0.78	0.78
6.95	7.72	151.54	1.00	151.54	1.69	0.83	0.83
6.97	10.30	199.97	1.00	199.97	1.53	0.89	0.89
6.99	12.56	228.50	1.00	228.50	1.42	0.92	0.92
7.01	14.22	246.57	1.00	246.57	1.35	0.93	0.93
7.03	15.52	262.16	1.00	262.16	1.31	0.95	0.95
7.05	16.71	277.73	1.00	277.73	1.28	0.96	0.96
7.07	17.67	290.44	1.00	290.44	1.27	0.97	0.97
7.09	18.65	303.37	1.00	303.37	1.25	0.98	0.98
7.11	19.61	316.56	1.00	316.56	1.24	0.99	0.99
7.13	20.67	331.69	1.00	331.69	1.24	1.00	1.00

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.15	21.55	344.99	1.00	344.99	1.24	1.01	1.01
7.17	22.23	355.69	1.00	355.69	1.24	1.02	1.02
7.19	22.45	361.69	1.00	361.69	1.26	1.02	1.02
7.21	22.55	364.62	1.00	364.62	1.27	1.02	1.02
7.23	22.52	366.23	1.00	366.23	1.28	1.03	1.03
7.25	21.28	355.82	1.00	355.82	1.34	1.02	1.02
7.27	21.05	352.02	1.00	352.02	1.35	1.02	1.02
7.29	20.93	348.53	1.00	348.53	1.34	1.01	1.01
7.31	22.09	355.48	1.00	355.48	1.28	1.02	1.02
7.33	22.14	356.31	1.00	356.31	1.29	1.02	1.02
7.35	21.80	352.20	1.00	352.20	1.30	1.02	1.02
7.37	21.20	345.04	1.00	345.04	1.32	1.01	1.01
7.39	20.43	334.90	1.00	334.90	1.34	1.00	1.00
7.41	19.71	325.50	1.00	325.50	1.36	1.00	1.00
7.43	18.90	314.92	1.00	314.92	1.38	0.99	0.99
7.45	17.99	302.50	1.00	302.50	1.41	0.98	0.98
7.47	16.29	279.56	1.00	279.56	1.45	0.96	0.96
7.49	14.18	250.93	1.00	250.93	1.52	0.94	0.94
7.51	11.67	216.37	1.00	216.37	1.61	0.90	0.90
7.53	9.54	185.80	1.04	192.71	1.72	0.88	0.88
7.55	7.59	148.75	1.21	180.62	1.87	0.87	0.87
7.57	6.06	118.54	1.33	157.41	2.02	0.84	0.84
7.59	4.78	93.26	1.60	149.01	2.19	0.83	0.83
7.61	3.95	76.92	2.08	159.79	2.34	0.84	0.84
7.63	3.40	65.97	2.65	175.07	2.45	0.86	0.86
7.65	3.16	61.19	2.99	183.25	2.50	0.86	0.86
7.67	2.90	56.09	3.42	191.60	2.56	0.92	0.92
7.69	2.63	50.74	3.97	201.23	2.62	0.99	0.99
7.71	2.42	46.66	4.47	208.59	2.68	1.05	1.05
7.73	2.29	44.10	4.70	207.31	2.70	1.08	1.08
7.75	2.21	42.47	4.66	197.79	2.70	1.06	1.06
7.77	2.15	41.33	4.26	176.17	2.66	0.99	0.99
7.79	2.10	40.24	3.83	154.16	2.61	0.92	0.92
7.81	2.05	39.22	3.43	134.62	2.56	0.85	0.85
7.83	2.02	38.59	3.24	124.85	2.54	0.81	0.81
7.85	2.00	38.27	3.08	117.80	2.51	0.78	0.78
7.87	1.98	37.92	2.98	113.10	2.50	0.76	0.76
7.89	1.93	36.85	3.05	112.39	2.51	0.77	0.77
7.91	1.84	35.11	3.26	114.37	2.54	0.79	0.79
7.93	1.80	34.36	3.43	117.79	2.56	0.82	0.82
7.95	1.80	34.26	3.53	120.97	2.57	0.84	0.84
7.97	1.79	34.12	3.63	123.98	2.59	0.85	0.85
7.99	1.75	33.29	3.80	126.63	2.61	0.87	0.87
8.01	1.69	32.14	4.03	129.66	2.63	0.90	0.90
8.03	1.68	31.79	4.12	130.95	2.64	0.91	0.91
8.05	1.68	31.94	4.10	130.86	2.64	0.91	0.91
8.07	1.66	31.45	4.17	131.25	2.65	0.92	0.92
8.09	1.56	29.54	4.52	133.38	2.68	0.95	0.95

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.11	1.42	26.64	5.12	136.39	2.74	0.81	0.81
8.13	1.31	24.48	5.64	138.02	2.78	0.81	0.81
8.15	1.26	23.56	5.88	138.52	2.80	0.81	0.81
8.17	1.45	27.25	4.82	131.46	2.71	0.80	0.80
8.19	2.05	39.06	2.92	114.06	2.49	0.77	0.77
8.21	2.74	52.78	1.98	104.25	2.31	0.76	0.76
8.23	3.21	62.07	1.69	104.64	2.23	0.76	0.76
8.25	3.19	61.56	1.77	109.15	2.26	0.76	0.76
8.27	2.92	56.35	2.03	114.25	2.33	0.77	0.77
8.29	2.53	48.52	2.54	123.31	2.43	0.79	0.79
8.31	2.10	40.11	3.31	132.72	2.55	0.83	0.83
8.33	1.68	31.76	4.64	147.19	2.69	0.99	0.99
8.35	1.35	25.23	6.45	162.84	2.85	0.84	0.84
8.37	1.10	20.35	8.77	178.48	3.00	0.86	0.86
8.39	0.98	17.96	10.41	186.96	3.09	0.68	1.89
8.41	0.92	16.66	11.39	189.85	3.14	0.66	1.75
8.43	0.88	15.86	11.81	187.37	3.16	0.65	1.66
8.45	0.82	14.73	12.41	182.86	3.19	0.61	1.53
8.47	0.69	12.22	13.66	166.83	3.24	0.55	1.26
8.49	0.67	11.73	12.89	151.18	3.21	0.31	1.21
8.51	0.68	11.91	11.36	135.27	3.14	0.34	1.22
8.53	0.80	14.32	9.09	130.26	3.02	0.31	1.46
8.55	0.89	16.06	7.62	122.38	2.93	0.79	0.79
8.57	1.05	19.30	5.81	112.19	2.80	0.77	0.77
8.59	1.22	22.64	4.66	105.50	2.70	0.91	0.91
8.61	1.35	25.18	4.13	104.09	2.64	0.86	0.86
8.63	1.39	25.92	4.19	108.72	2.65	0.88	0.88
8.65	1.39	25.95	4.37	113.31	2.67	0.90	0.90
8.67	1.38	25.75	4.53	116.59	2.68	0.92	0.92
8.69	1.39	25.98	4.54	118.08	2.68	0.93	0.93
8.71	1.42	26.58	4.44	118.06	2.67	0.92	0.92
8.73	1.47	27.43	4.28	117.28	2.66	0.90	0.90
8.75	1.50	28.06	4.11	115.46	2.64	0.88	0.88
8.77	1.51	28.23	4.00	112.89	2.63	0.87	0.87
8.79	1.50	28.04	3.88	108.82	2.61	0.85	0.85
8.81	1.49	27.88	3.70	103.29	2.59	0.82	0.82
8.83	1.49	27.85	3.54	98.47	2.57	0.79	0.79
8.85	1.49	27.83	3.41	94.90	2.56	0.77	0.77
8.87	1.48	27.55	3.42	94.28	2.56	0.77	0.77
8.89	1.45	27.08	3.49	94.50	2.57	0.78	0.78
8.91	1.42	26.50	3.60	95.47	2.58	0.80	0.80
8.93	1.40	26.05	3.68	95.86	2.59	0.80	0.80
8.95	1.39	25.77	3.73	96.03	2.60	0.81	0.81
8.97	1.38	25.64	3.73	95.64	2.60	0.81	0.81
8.99	1.39	25.84	3.66	94.63	2.59	0.80	0.80
9.01	1.41	26.28	3.54	92.94	2.57	0.78	0.78
9.03	1.44	26.83	3.39	91.07	2.56	0.77	0.77
9.05	1.46	27.11	3.29	89.26	2.54	0.75	0.75

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
9.07	1.46	27.16	3.25	88.16	2.54	0.74	0.74
9.09	1.46	27.13	3.22	87.42	2.53	0.74	0.74
9.11	1.45	27.06	3.25	88.02	2.54	0.74	0.74
9.13	1.44	26.85	3.33	89.55	2.55	0.76	0.76
9.15	1.43	26.59	3.44	91.60	2.56	0.77	0.77
9.17	1.43	26.62	3.51	93.56	2.57	0.78	0.78
9.19	1.46	27.14	3.51	95.30	2.57	0.79	0.79
9.21	1.50	27.94	3.46	96.74	2.57	0.78	0.78
9.23	1.53	28.55	3.42	97.59	2.56	0.78	0.78
9.25	1.55	28.82	3.38	97.46	2.55	0.78	0.78
9.27	1.54	28.77	3.44	98.98	2.56	0.79	0.79
9.29	1.54	28.69	3.51	100.78	2.57	0.80	0.80
9.31	1.54	28.75	3.56	102.48	2.58	0.81	0.81
9.33	1.54	28.75	3.57	102.67	2.58	0.81	0.81
9.35	1.54	28.57	3.61	103.11	2.58	0.81	0.81
9.37	1.52	28.22	3.67	103.50	2.59	0.82	0.82
9.39	1.51	28.13	3.66	102.92	2.59	0.82	0.82
9.41	1.52	28.32	3.57	101.20	2.58	0.80	0.80
9.43	1.55	28.81	3.44	99.16	2.56	0.79	0.79
9.45	1.60	29.78	3.25	96.88	2.54	0.76	0.76
9.47	1.66	30.92	3.07	94.92	2.51	0.74	0.74
9.49	1.71	31.98	2.93	93.86	2.49	0.74	0.74
9.51	1.75	32.66	2.85	93.24	2.48	0.74	0.74
9.53	1.77	33.14	2.80	92.70	2.47	0.73	0.73
9.55	1.79	33.45	2.74	91.79	2.46	0.73	0.73
9.57	1.78	33.28	2.76	91.75	2.47	0.73	0.73
9.59	1.75	32.79	2.82	92.58	2.48	0.73	0.73
9.61	1.71	31.91	2.96	94.58	2.50	0.74	0.74
9.63	1.66	30.95	3.17	98.27	2.53	0.76	0.76
9.65	1.60	29.76	3.46	102.81	2.56	0.79	0.79
9.67	1.54	28.54	3.77	107.53	2.60	0.84	0.84
9.69	1.55	28.68	3.74	107.38	2.60	0.83	0.83
9.71	1.54	28.63	3.74	107.10	2.60	0.83	0.83
9.73	1.53	28.28	3.74	105.91	2.60	0.83	0.83
9.75	1.44	26.52	4.07	107.82	2.64	0.86	0.86
9.77	1.37	25.13	4.32	108.46	2.66	0.89	0.89
9.79	1.31	24.03	4.51	108.42	2.68	0.90	0.90
9.81	1.27	23.21	4.63	107.52	2.69	0.91	0.91
9.83	1.24	22.53	4.70	106.00	2.70	0.92	0.92
9.85	1.21	22.04	4.74	104.47	2.70	0.76	0.76
9.87	1.18	21.41	4.87	104.28	2.72	0.76	0.76
9.89	1.14	20.54	5.11	105.02	2.74	0.76	0.76
9.91	1.09	19.59	5.43	106.33	2.76	0.76	0.76
9.93	1.02	18.30	5.85	107.00	2.80	0.76	0.76
9.95	0.95	16.89	6.35	107.23	2.84	0.76	0.76
9.97	0.83	14.54	7.54	109.58	2.92	0.77	0.77
9.99	0.72	12.21	9.27	113.19	3.03	0.21	0.96
10.01	0.61	10.05	11.57	116.32	3.15	0.22	0.79

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
10.03	0.61	10.10	11.29	114.09	3.13	0.21	0.79
10.05	0.70	11.79	9.09	107.21	3.02	0.18	0.92
10.07	0.81	14.08	6.99	98.42	2.89	0.75	0.75
10.09	0.88	15.43	6.08	93.82	2.82	0.74	0.74
10.11	0.90	15.69	5.93	93.00	2.81	0.73	0.73
10.13	0.92	16.11	5.72	92.20	2.79	0.73	0.73
10.15	0.95	16.84	5.32	89.68	2.76	0.73	0.73
10.17	1.00	17.74	4.90	86.84	2.72	0.72	0.72
10.19	1.02	18.13	4.89	88.68	2.72	0.73	0.73
10.21	1.02	18.17	5.21	94.63	2.75	0.74	0.74
10.23	1.01	17.87	5.70	101.84	2.79	0.75	0.75
10.25	1.01	17.86	5.83	104.15	2.80	0.76	0.76
10.27	1.01	17.99	5.74	103.21	2.79	0.75	0.75
10.29	1.03	18.26	5.50	100.44	2.77	0.75	0.75
10.31	1.04	18.35	5.39	98.89	2.76	0.75	0.75
10.33	1.07	18.70	5.18	96.94	2.74	0.74	0.74
10.35	1.11	19.32	4.84	93.41	2.71	0.74	0.74
10.37	1.18	20.37	4.45	90.71	2.68	0.86	0.86
10.39	1.23	21.24	4.20	89.18	2.65	0.84	0.84
10.41	1.26	21.73	4.24	92.26	2.65	0.85	0.85
10.43	1.25	21.58	4.60	99.35	2.69	0.89	0.89
10.45	1.22	21.31	5.00	106.44	2.73	0.76	0.76
10.47	1.21	21.12	5.31	112.06	2.75	0.77	0.77
10.49	1.20	20.96	5.57	116.70	2.78	0.78	0.78
10.51	1.19	20.84	5.94	123.80	2.81	0.79	0.79
10.53	1.18	20.80	6.25	130.03	2.83	0.80	0.80
10.55	1.20	21.11	6.39	134.80	2.84	0.81	0.81
10.57	1.23	21.62	6.23	134.73	2.83	0.81	0.81
10.59	1.26	22.12	6.07	134.18	2.82	0.80	0.80
10.61	1.26	22.01	6.15	135.36	2.82	0.81	0.81
10.63	1.25	21.78	6.37	138.78	2.84	0.81	0.81
10.65	1.23	21.50	6.50	139.78	2.85	0.81	0.81
10.67	1.24	21.56	6.33	136.47	2.84	0.81	0.81
10.69	1.25	21.53	6.25	134.65	2.83	0.81	0.81
10.71	1.30	22.32	5.96	133.02	2.81	0.80	0.80
10.73	1.38	23.59	5.49	129.64	2.77	0.80	0.80
10.75	1.39	23.56	5.33	125.48	2.76	0.79	0.79
10.77	1.29	21.76	5.71	124.22	2.79	0.79	0.79
10.79	1.12	18.84	6.36	119.87	2.84	0.78	0.78
10.81	1.01	16.89	6.85	115.73	2.88	0.78	0.78
10.83	0.94	15.66	7.29	114.20	2.91	0.77	0.77
10.85	0.90	14.99	7.99	119.78	2.95	0.78	0.78
10.87	0.88	14.55	8.58	124.82	2.99	0.79	0.79
10.89	0.88	14.58	8.92	130.01	3.01	0.28	1.04
10.91	0.89	14.66	8.97	131.61	3.01	0.32	1.05
10.93	0.94	15.54	8.41	130.74	2.98	0.80	0.80
10.95	0.98	16.21	7.73	125.38	2.94	0.79	0.79
10.97	0.99	16.32	7.61	124.20	2.93	0.79	0.79

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
10.99	0.96	15.79	8.01	126.50	2.95	0.79	0.79
11.01	0.91	14.84	8.79	130.51	3.00	0.30	1.06
11.03	0.88	14.25	9.30	132.46	3.03	0.31	1.02
11.05	0.84	13.39	9.94	133.18	3.07	0.29	0.96
11.07	0.80	12.57	10.34	129.95	3.09	0.29	0.90
11.09	0.75	11.74	10.83	127.14	3.11	0.25	0.84
11.11	0.71	11.01	11.34	124.91	3.14	0.24	0.79
11.13	0.68	10.39	12.10	125.68	3.17	0.26	0.74
11.15	0.67	10.06	12.51	125.80	3.19	0.25	0.72
11.17	0.66	9.88	12.46	123.14	3.19	0.24	0.71
11.19	0.63	9.38	12.80	120.03	3.20	0.22	0.67
11.21	0.58	8.48	13.95	118.25	3.25	0.21	0.61
11.23	0.53	7.45	15.66	116.70	3.32	0.21	0.53
11.25	0.50	6.96	16.36	113.84	3.34	0.19	0.50
11.27	0.50	6.85	15.85	108.56	3.32	0.18	0.49
11.29	0.50	6.90	15.16	104.53	3.30	0.15	0.49
11.31	0.52	7.14	14.08	100.53	3.26	0.15	0.51
11.33	0.53	7.37	13.38	98.58	3.23	0.14	0.53
11.35	0.55	7.61	12.53	95.27	3.19	0.14	0.54
11.37	0.56	7.77	12.04	93.59	3.17	0.13	0.56
11.39	0.58	8.07	11.27	91.00	3.13	0.13	0.58
11.41	0.60	8.56	10.47	89.58	3.09	0.12	0.61
11.43	0.63	9.08	9.74	88.46	3.05	0.12	0.65
11.45	0.66	9.43	9.38	88.44	3.03	0.12	0.67
11.47	0.66	9.43	9.47	89.25	3.04	0.12	0.67
11.49	0.64	9.13	9.78	89.33	3.06	0.13	0.65
11.51	0.63	8.85	10.01	88.58	3.07	0.12	0.63
11.53	0.62	8.74	9.91	86.59	3.06	0.11	0.62
11.55	0.63	8.85	9.59	84.85	3.05	0.11	0.63
11.57	0.64	8.92	9.45	84.24	3.04	0.11	0.64
11.59	0.64	8.97	9.40	84.34	3.04	0.11	0.64
11.61	0.64	8.98	9.41	84.49	3.04	0.11	0.64
11.63	0.65	9.17	9.15	83.97	3.02	0.11	0.66
11.65	0.68	9.64	8.61	83.04	2.99	0.71	0.71
11.67	0.72	10.32	8.01	82.69	2.95	0.71	0.71
11.69	0.75	10.67	7.83	83.54	2.94	0.71	0.71
11.71	0.75	10.69	8.07	86.21	2.96	0.72	0.72
11.73	0.74	10.52	8.13	85.58	2.96	0.72	0.72
11.75	0.76	10.87	7.71	83.80	2.93	0.72	0.72
11.77	0.82	11.71	6.91	80.96	2.88	0.63	0.71
11.79	0.89	12.79	6.38	81.60	2.84	0.67	0.71
11.81	0.95	13.62	6.09	83.03	2.82	0.71	0.71
11.83	0.99	14.19	5.93	84.13	2.81	0.72	0.72
11.85	1.01	14.48	5.88	85.12	2.80	0.72	0.72
11.87	1.02	14.57	5.96	86.87	2.81	0.72	0.72
11.89	1.00	14.29	6.16	88.04	2.82	0.72	0.72
11.91	0.96	13.76	6.45	88.81	2.85	0.73	0.73
11.93	0.93	13.20	6.77	89.30	2.87	0.73	0.73

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
11.95	0.90	12.84	7.11	91.23	2.89	0.73	0.73
11.97	0.90	12.70	7.34	93.21	2.91	0.74	0.74
11.99	0.90	12.80	7.29	93.39	2.91	0.74	0.74
12.01	0.93	13.12	7.02	92.16	2.89	0.73	0.73
12.03	0.97	13.68	6.62	90.51	2.86	0.73	0.73
12.05	1.00	14.06	6.41	90.10	2.84	0.73	0.73
12.07	1.02	14.31	6.31	90.21	2.84	0.73	0.73
12.09	1.00	14.10	6.54	92.26	2.85	0.73	0.73
12.11	1.00	14.02	6.43	90.10	2.84	0.73	0.73
12.13	1.12	15.69	5.36	84.17	2.76	0.72	0.72
12.15	1.41	19.64	3.91	76.81	2.62	0.78	0.78
12.17	2.07	28.56	2.45	70.11	2.42	0.26	0.68
12.19	2.54	34.87	2.04	71.04	2.33	0.28	0.69
12.21	2.78	38.09	1.91	72.74	2.30	0.32	0.69
12.23	2.55	35.15	2.17	76.11	2.36	0.42	0.70
12.25	2.30	31.95	2.61	83.38	2.44	0.71	0.71
12.27	2.03	28.44	3.36	95.69	2.55	0.77	0.77
12.29	1.84	25.98	4.17	108.47	2.65	0.88	0.88
12.31	1.76	24.97	4.58	114.36	2.69	0.92	0.92
12.33	1.88	26.62	4.36	116.14	2.67	0.91	0.91
12.35	2.08	29.25	3.97	116.13	2.62	0.87	0.87
12.37	2.21	31.01	3.76	116.74	2.60	0.85	0.85
12.39	2.07	29.09	3.97	115.49	2.62	0.87	0.87
12.41	1.84	25.70	4.42	113.46	2.67	0.91	0.91
12.43	1.63	22.68	4.89	110.89	2.72	0.77	0.77
12.45	1.60	22.12	4.89	108.25	2.72	0.76	0.76
12.47	1.66	22.95	4.74	108.86	2.70	0.76	0.76
12.49	1.83	25.29	4.36	110.14	2.67	0.89	0.89
12.51	2.04	28.23	3.96	111.65	2.62	0.86	0.86
12.53	2.10	28.94	3.91	113.16	2.62	0.86	0.86
12.55	1.93	26.59	4.26	113.27	2.66	0.89	0.89
12.57	1.61	22.09	5.02	110.85	2.73	0.77	0.77
12.59	1.36	18.42	5.71	105.22	2.79	0.76	0.76
12.61	1.22	16.33	6.12	99.91	2.82	0.75	0.75
12.63	1.20	16.06	6.08	97.64	2.82	0.74	0.74
12.65	1.28	17.05	5.51	94.01	2.77	0.74	0.74
12.67	1.48	19.70	4.46	87.78	2.68	0.86	0.86
12.69	1.85	24.49	3.35	82.17	2.55	0.74	0.74
12.71	2.27	29.98	2.65	79.32	2.45	0.55	0.71
12.73	2.61	34.42	2.30	79.31	2.39	0.55	0.71
12.75	2.67	35.17	2.28	80.08	2.38	0.59	0.71
12.77	2.51	33.02	2.47	81.62	2.42	0.67	0.71
12.79	2.18	28.78	3.07	88.29	2.51	0.72	0.72
12.81	1.83	24.22	3.77	91.36	2.60	0.80	0.80
12.83	1.70	22.29	4.02	89.59	2.63	0.82	0.82
12.85	2.06	26.78	2.85	76.31	2.48	0.43	0.70
12.87	2.63	34.02	2.10	71.53	2.34	0.29	0.69
12.89	2.99	38.44	1.87	71.75	2.28	0.29	0.69

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
12.91	2.83	36.35	2.00	72.63	2.32	0.32	0.69
12.93	2.47	31.85	2.33	74.21	2.39	0.36	0.69
12.95	2.20	28.53	2.86	81.49	2.48	0.66	0.71
12.97	2.02	26.26	3.52	92.54	2.57	0.78	0.78
12.99	1.81	23.59	4.42	104.20	2.67	0.89	0.89
13.01	1.66	21.70	4.97	107.92	2.72	0.76	0.76
13.03	1.60	20.86	5.16	107.59	2.74	0.76	0.76
13.05	1.66	21.54	4.91	105.73	2.72	0.76	0.76
13.07	1.70	22.03	4.72	104.08	2.70	0.76	0.76
13.09	1.68	21.69	4.71	102.21	2.70	0.75	0.75
13.11	1.69	21.71	4.41	95.72	2.67	0.87	0.87
13.13	1.79	22.85	3.92	89.59	2.62	0.81	0.81
13.15	1.97	25.12	3.46	87.03	2.57	0.76	0.76
13.17	2.13	27.10	3.28	88.80	2.54	0.75	0.75
13.19	2.13	27.14	3.40	92.27	2.56	0.77	0.77
13.21	2.03	25.81	3.67	94.64	2.59	0.80	0.80
13.23	1.86	23.54	4.06	95.52	2.63	0.84	0.84
13.25	1.81	22.89	4.19	95.97	2.65	0.85	0.85
13.27	1.85	23.41	4.09	95.80	2.64	0.84	0.84
13.29	1.95	24.60	3.90	95.97	2.62	0.82	0.82
13.31	2.06	25.96	3.72	96.70	2.60	0.81	0.81
13.33	2.47	31.13	3.01	93.64	2.50	0.73	0.73
13.35	3.06	38.18	2.20	84.01	2.37	0.72	0.72
13.37	3.57	44.20	1.80	79.55	2.26	0.56	0.71
13.39	3.63	44.70	1.67	74.62	2.22	0.37	0.69
13.41	3.37	41.61	1.85	76.95	2.28	0.45	0.70
13.43	3.02	37.44	2.18	81.57	2.36	0.67	0.71
13.45	2.72	33.93	2.72	92.16	2.46	0.73	0.73
13.47	2.55	31.91	3.18	101.60	2.53	0.76	0.76
13.49	2.42	30.25	3.64	110.18	2.59	0.83	0.83
13.51	2.21	27.70	4.19	115.98	2.65	0.89	0.89
13.53	2.02	25.26	4.71	118.86	2.70	0.94	0.94
13.55	1.88	23.39	5.08	118.90	2.73	0.78	0.78
13.57	1.85	22.86	5.14	117.38	2.74	0.78	0.78
13.59	1.84	22.68	4.97	112.75	2.72	0.77	0.77
13.61	1.92	23.59	4.53	106.80	2.68	0.90	0.90
13.63	2.28	27.93	3.59	100.26	2.58	0.80	0.80
13.65	2.71	33.18	2.94	97.67	2.49	0.74	0.74
13.67	2.94	35.92	2.58	92.72	2.44	0.73	0.73
13.69	2.85	34.73	2.62	91.05	2.44	0.73	0.73
13.71	2.65	32.14	2.85	91.55	2.48	0.73	0.73
13.73	2.50	30.51	3.31	100.87	2.55	0.78	0.78
13.75	2.30	28.05	4.05	113.65	2.63	0.87	0.87
13.77	2.08	25.41	4.96	125.99	2.72	0.79	0.79
13.79	1.87	22.82	5.82	132.78	2.80	0.80	0.80
13.81	1.76	21.37	6.16	131.63	2.82	0.80	0.80
13.83	1.70	20.53	6.16	126.54	2.82	0.79	0.79
13.85	1.69	20.29	5.93	120.26	2.81	0.78	0.78

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
13.87	1.75	20.93	5.42	113.42	2.76	0.77	0.77
13.89	2.03	24.30	4.37	106.08	2.67	0.89	0.89
13.91	2.35	28.08	3.58	100.50	2.58	0.80	0.80
13.93	2.61	31.18	3.12	97.14	2.52	0.75	0.75
13.95	2.69	32.09	2.99	95.96	2.50	0.73	0.73
13.97	2.77	32.95	2.91	95.94	2.49	0.74	0.74
13.99	2.88	34.24	2.81	96.40	2.48	0.74	0.74
14.01	2.95	34.95	2.75	96.20	2.47	0.74	0.74
14.03	2.93	34.71	2.78	96.38	2.47	0.74	0.74
14.05	2.83	33.44	2.90	97.13	2.49	0.74	0.74
14.07	2.66	31.44	3.21	100.85	2.53	0.76	0.76
14.09	2.54	29.98	3.49	104.74	2.57	0.80	0.80
14.11	2.71	31.90	3.22	102.72	2.53	0.77	0.77
14.13	2.93	34.41	2.93	100.90	2.49	0.75	0.75
14.15	3.04	35.66	2.76	98.46	2.47	0.75	0.75
14.17	2.91	34.11	3.03	103.27	2.51	0.75	0.75
14.19	2.84	33.35	3.25	108.27	2.54	0.78	0.78
14.21	2.86	33.50	3.31	110.73	2.54	0.79	0.79
14.23	2.70	31.60	3.59	113.54	2.58	0.83	0.83
14.25	2.43	28.29	4.03	114.00	2.63	0.87	0.87
14.27	2.22	25.76	4.52	116.35	2.68	0.92	0.92
14.29	2.24	25.83	4.39	113.48	2.67	0.90	0.90
14.31	2.30	26.49	4.23	111.99	2.65	0.89	0.89
14.33	2.25	25.86	4.34	112.14	2.66	0.90	0.90
14.35	2.14	24.49	4.67	114.41	2.70	0.93	0.93
14.37	2.08	23.73	4.86	115.28	2.71	0.78	0.78
14.39	2.11	24.15	4.78	115.33	2.71	0.78	0.78
14.41	2.28	26.03	4.30	111.99	2.66	0.89	0.89
14.43	2.50	28.61	3.78	108.22	2.60	0.84	0.84
14.45	2.80	32.02	3.26	104.37	2.54	0.78	0.78
14.47	3.12	35.61	2.83	100.71	2.48	0.75	0.75
14.49	3.28	37.37	2.62	97.94	2.44	0.74	0.74
14.51	3.36	38.22	2.50	95.73	2.42	0.74	0.74
14.53	3.38	38.32	2.44	93.48	2.41	0.74	0.74
14.55	3.50	39.53	2.31	91.31	2.39	0.73	0.73
14.57	3.59	40.49	2.20	89.23	2.37	0.73	0.73
14.59	3.48	39.18	2.19	85.61	2.36	0.72	0.72
14.61	3.35	37.48	2.20	82.40	2.36	0.71	0.71
14.63	2.95	33.07	2.74	90.71	2.46	0.73	0.73
14.65	2.63	29.46	3.58	105.36	2.58	0.81	0.81
14.67	2.21	24.66	4.93	121.52	2.72	0.79	0.79
14.69	2.06	22.83	5.29	120.69	2.75	0.78	0.78
14.71	2.08	23.02	5.02	115.65	2.73	0.78	0.78
14.73	2.34	25.85	4.21	108.77	2.65	0.88	0.88
14.75	2.67	29.65	3.44	101.94	2.56	0.79	0.79
14.77	2.96	32.72	2.88	94.19	2.49	0.74	0.74
14.79	2.94	32.49	2.74	89.15	2.46	0.73	0.73
14.81	2.79	30.61	2.90	88.73	2.49	0.73	0.73

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
14.83	2.56	28.12	3.37	94.66	2.55	0.77	0.77
14.85	2.47	27.08	3.77	102.14	2.60	0.83	0.83
14.87	2.32	25.38	4.33	109.98	2.66	0.89	0.89
14.89	2.18	23.70	4.87	115.39	2.72	0.78	0.78
14.91	2.45	26.76	4.15	111.04	2.64	0.88	0.88
14.93	2.98	32.61	3.18	103.68	2.53	0.77	0.77
14.95	3.53	38.79	2.59	100.47	2.44	0.75	0.75
14.97	3.59	39.29	2.52	99.19	2.43	0.75	0.75
14.99	3.31	36.11	2.71	97.85	2.46	0.74	0.74
15.01	2.86	30.94	3.05	94.25	2.51	0.73	0.73
15.03	2.31	24.82	4.07	101.06	2.64	0.85	0.85
15.05	2.06	21.91	4.91	107.51	2.72	0.76	0.76
15.07	2.07	22.01	5.10	112.23	2.74	0.77	0.77
15.09	2.24	23.94	4.52	108.31	2.68	0.91	0.91
15.11	2.21	23.56	4.60	108.30	2.69	0.91	0.91
15.13	2.13	22.60	4.72	106.60	2.70	0.76	0.76
15.15	2.15	22.70	4.57	103.63	2.69	0.90	0.90
15.17	2.16	22.76	4.40	100.15	2.67	0.88	0.88
15.19	2.04	21.41	4.69	100.38	2.70	0.90	0.90
15.21	1.87	19.48	5.28	102.88	2.75	0.75	0.75
15.23	1.63	16.70	6.39	106.71	2.84	0.76	0.76
15.25	1.44	14.58	7.33	106.79	2.91	0.76	0.76
15.27	1.27	12.51	8.44	105.63	2.98	0.76	0.76
15.29	1.33	13.29	7.51	99.79	2.92	0.75	0.75
15.31	1.52	15.34	6.26	95.99	2.83	0.74	0.74
15.33	1.72	17.49	5.24	91.71	2.75	0.73	0.73
15.35	1.73	17.65	5.19	91.52	2.74	0.73	0.73
15.37	1.56	15.67	5.92	92.79	2.81	0.73	0.73
15.39	1.34	13.24	7.15	94.60	2.90	0.74	0.74
15.41	1.24	12.02	7.75	93.08	2.94	0.73	0.73
15.43	1.36	13.31	6.61	87.98	2.86	0.72	0.72
15.45	1.70	17.12	4.89	83.74	2.72	0.72	0.72
15.47	2.15	21.97	3.58	78.63	2.58	0.76	0.76
15.49	2.38	24.48	3.22	78.72	2.53	0.72	0.72
15.51	2.51	25.83	3.04	78.64	2.51	0.46	0.70
15.53	2.77	28.62	2.68	76.83	2.45	0.45	0.70
15.55	3.14	32.56	2.35	76.47	2.40	0.44	0.70
15.57	3.31	34.33	2.26	77.56	2.38	0.48	0.70
15.59	3.26	33.76	2.36	79.77	2.40	0.57	0.71
15.61	3.28	33.92	2.40	81.29	2.40	0.65	0.71
15.63	3.29	34.01	2.49	84.57	2.42	0.72	0.72
15.65	3.07	31.66	2.81	89.10	2.48	0.73	0.73
15.67	2.64	27.00	3.60	97.14	2.58	0.80	0.80
15.69	2.24	22.62	4.72	106.78	2.70	0.76	0.76
15.71	1.94	19.37	6.11	118.37	2.82	0.78	0.78
15.73	1.80	17.83	6.77	120.67	2.87	0.78	0.78
15.75	1.93	19.26	5.80	111.74	2.80	0.77	0.77
15.77	2.15	21.55	4.63	99.81	2.69	0.90	0.90

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
15.79	2.57	25.94	3.30	85.71	2.54	0.74	0.74
15.81	2.65	26.72	2.93	78.26	2.49	0.51	0.70
15.83	2.59	25.97	2.83	73.40	2.48	0.34	0.69
15.85	2.18	21.57	3.65	78.80	2.59	0.76	0.76
15.87	1.98	19.44	4.38	85.18	2.67	0.84	0.84
15.89	1.97	19.27	4.63	89.33	2.69	0.87	0.87
15.91	2.00	19.62	4.67	91.66	2.70	0.88	0.88
15.93	1.87	18.16	5.28	95.96	2.75	0.74	0.74
15.95	1.60	15.30	6.63	101.40	2.86	0.75	0.75
15.97	1.40	13.15	7.92	104.06	2.95	0.76	0.76
15.99	1.30	11.98	8.70	104.25	3.00	0.76	0.76
16.01	1.30	11.99	8.61	103.22	2.99	0.75	0.75
16.03	1.33	12.22	8.26	100.93	2.97	0.75	0.75
16.05	1.40	12.96	7.53	97.66	2.92	0.74	0.74
16.07	1.50	14.09	6.51	91.65	2.85	0.73	0.73
16.09	1.50	14.00	6.35	88.86	2.84	0.73	0.73
16.11	1.40	12.90	6.90	88.96	2.88	0.73	0.73
16.13	1.25	11.27	7.96	89.71	2.95	0.73	0.73
16.15	1.18	10.50	8.59	90.20	2.99	0.73	0.73
16.17	1.15	10.20	8.74	89.23	3.00	0.73	0.73
16.19	1.13	9.97	9.00	89.79	3.01	0.17	0.71
16.21	1.12	9.82	9.01	88.49	3.01	0.16	0.70
16.23	1.12	9.79	8.80	86.18	3.00	0.15	0.70
16.25	1.12	9.77	8.60	84.03	2.99	0.72	0.72
16.27	1.13	9.82	8.41	82.59	2.98	0.71	0.71
16.29	1.14	9.92	8.31	82.45	2.97	0.71	0.71
16.31	1.16	10.19	8.08	82.29	2.96	0.71	0.71
16.33	1.20	10.53	7.90	83.11	2.95	0.71	0.71
16.35	1.22	10.77	7.76	83.54	2.94	0.71	0.71
16.37	1.25	10.99	7.66	84.19	2.93	0.72	0.72
16.39	1.28	11.34	7.44	84.42	2.92	0.72	0.72
16.41	1.33	11.82	7.22	85.35	2.90	0.72	0.72
16.43	1.37	12.22	7.09	86.61	2.89	0.72	0.72
16.45	1.48	13.34	6.48	86.45	2.85	0.72	0.72
16.47	1.65	15.06	5.68	85.55	2.79	0.72	0.72
16.49	1.84	17.02	5.03	85.61	2.73	0.72	0.72
16.51	1.94	18.11	4.90	88.76	2.72	0.73	0.73
16.53	1.92	17.85	5.06	90.40	2.73	0.73	0.73
16.55	1.72	15.70	5.78	90.68	2.79	0.73	0.73
16.57	1.48	13.19	6.51	85.87	2.85	0.72	0.72
16.59	1.26	10.89	7.64	83.20	2.93	0.71	0.71
16.61	1.16	9.90	8.42	83.31	2.98	0.71	0.71
16.63	1.08	9.02	10.17	91.74	3.08	0.16	0.64
16.65	1.02	8.34	11.92	99.49	3.16	0.22	0.60
16.67	0.97	7.83	13.40	104.95	3.23	0.23	0.56
16.69	0.94	7.46	14.04	104.70	3.26	0.22	0.53
16.71	0.92	7.29	14.19	103.41	3.26	0.21	0.52
16.73	0.92	7.31	13.52	98.85	3.23	0.21	0.52

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
16.75	0.93	7.34	12.63	92.75	3.20	0.16	0.52
16.77	0.93	7.33	11.61	85.08	3.15	0.13	0.52
16.79	0.92	7.27	11.14	80.94	3.13	0.12	0.52
16.81	0.93	7.30	10.85	79.21	3.11	0.12	0.52
16.83	0.93	7.32	10.82	79.24	3.11	0.12	0.52
16.85	0.93	7.29	10.83	78.96	3.11	0.12	0.52
16.87	0.92	7.22	10.96	79.11	3.12	0.12	0.52
16.89	0.91	7.08	11.15	78.95	3.13	0.12	0.51
16.91	0.92	7.13	11.02	78.58	3.12	0.12	0.51
16.93	0.94	7.30	10.63	77.62	3.10	0.11	0.52
16.95	0.96	7.54	10.20	76.90	3.08	0.11	0.54
16.97	0.97	7.62	10.03	76.48	3.07	0.11	0.54
16.99	0.95	7.42	10.39	77.12	3.09	0.11	0.53
17.01	0.94	7.33	10.63	77.95	3.10	0.11	0.52
17.03	0.94	7.29	10.82	78.91	3.11	0.12	0.52
17.05	0.96	7.43	10.71	79.50	3.10	0.12	0.53
17.07	0.97	7.54	10.57	79.68	3.10	0.12	0.54
17.09	0.97	7.58	10.51	79.69	3.09	0.12	0.54
17.11	0.99	7.75	10.22	79.22	3.08	0.12	0.55
17.13	1.01	7.88	9.95	78.48	3.07	0.12	0.56
17.15	1.02	7.99	9.67	77.28	3.05	0.12	0.57
17.17	1.02	8.01	9.45	75.74	3.04	0.11	0.57
17.19	1.04	8.15	9.11	74.25	3.02	0.11	0.58
17.21	1.07	8.41	8.71	73.23	3.00	0.33	0.69
17.23	1.08	8.52	8.58	73.09	2.99	0.33	0.69
17.25	1.07	8.41	8.73	73.43	3.00	0.34	0.69
17.27	1.05	8.25	8.98	74.10	3.01	0.11	0.59
17.29	1.06	8.31	8.94	74.26	3.01	0.11	0.59
17.31	1.07	8.42	8.80	74.06	3.00	0.11	0.60
17.33	1.08	8.45	8.70	73.53	3.00	0.34	0.69
17.35	1.08	8.46	8.65	73.15	2.99	0.33	0.69
17.37	1.10	8.60	8.48	72.96	2.98	0.33	0.69
17.39	1.12	8.81	8.25	72.68	2.97	0.32	0.69
17.41	1.14	8.98	8.04	72.16	2.95	0.30	0.69
17.43	1.15	9.13	7.87	71.85	2.94	0.30	0.69
17.45	1.18	9.35	7.67	71.71	2.93	0.29	0.69
17.47	1.23	9.88	7.26	71.75	2.90	0.29	0.69
17.49	1.29	10.43	6.83	71.24	2.87	0.28	0.69
17.51	1.34	10.86	6.53	70.90	2.85	0.27	0.69
17.53	1.34	10.89	6.60	71.89	2.86	0.30	0.69
17.55	1.32	10.66	7.00	74.68	2.89	0.38	0.69
17.57	1.28	10.25	7.61	78.02	2.93	0.50	0.70
17.59	1.22	9.67	8.40	81.26	2.98	0.65	0.71
17.61	1.18	9.19	9.14	84.01	3.02	0.15	0.66
17.63	1.16	9.00	9.59	86.23	3.05	0.16	0.64
17.65	1.19	9.31	9.28	86.42	3.03	0.16	0.66
17.67	1.30	10.36	8.19	84.77	2.96	0.72	0.72
17.69	2.35	20.57	3.27	67.21	2.54	0.39	0.70

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
17.71	7.63	72.10	1.00	72.10	1.79	0.30	0.69
17.73	14.13	135.74	1.00	135.74	1.46	0.81	0.81
17.75	19.99	193.07	1.00	193.07	1.30	0.88	0.88
17.77	21.46	207.31	1.00	207.31	1.31	0.89	0.89
17.79	22.52	217.50	1.00	217.50	1.31	0.91	0.91
17.81	23.03	222.23	1.00	222.23	1.33	0.91	0.91
17.83	24.20	233.41	1.00	233.41	1.34	0.92	0.92
17.85	24.57	236.87	1.00	236.87	1.35	0.92	0.92
17.87	25.04	241.30	1.00	241.30	1.33	0.93	0.93
17.89	24.41	234.93	1.00	234.93	1.34	0.92	0.92
17.91	23.39	224.72	1.00	224.72	1.37	0.91	0.91
17.93	21.92	210.10	1.00	210.10	1.44	0.90	0.90
17.95	20.63	197.12	1.00	197.12	1.52	0.88	0.88
17.97	19.93	189.90	1.00	189.90	1.63	0.88	0.88
17.99	20.16	191.76	1.00	191.76	1.66	0.88	0.88
18.01	21.35	203.06	1.00	203.06	1.64	0.89	0.89
18.03	22.40	213.18	1.00	213.18	1.58	0.90	0.90
18.05	23.27	221.59	1.00	221.59	1.53	0.91	0.91
18.07	23.65	225.13	1.00	225.13	1.51	0.91	0.91
18.09	23.73	225.84	1.00	225.84	1.48	0.91	0.91
18.11	23.82	226.37	1.00	226.37	1.50	0.91	0.91
18.13	23.94	227.37	1.00	227.37	1.50	0.91	0.91
18.15	24.34	230.90	1.00	230.90	1.52	0.92	0.92
18.17	24.59	233.07	1.00	233.07	1.51	0.92	0.92
18.19	24.12	228.27	1.00	228.27	1.52	0.92	0.92
18.21	23.37	220.96	1.00	220.96	1.52	0.91	0.91
18.23	21.83	205.97	1.00	205.97	1.53	0.89	0.89
18.25	20.91	197.01	1.00	197.01	1.54	0.88	0.88
18.27	20.17	189.56	1.00	189.56	1.58	0.88	0.88
18.29	20.46	191.97	1.00	191.97	1.61	0.88	0.88
18.31	20.50	191.91	1.00	191.91	1.65	0.88	0.88
18.33	19.87	185.69	1.00	185.69	1.67	0.87	0.87
18.35	19.03	177.20	1.04	184.01	1.72	0.87	0.87
18.37	17.66	163.59	1.19	193.98	1.83	0.88	0.88
18.39	17.23	158.78	1.26	199.99	1.93	0.89	0.89
18.41	17.40	159.86	1.31	208.94	2.00	0.90	0.90
18.43	19.78	181.91	1.29	234.44	1.98	0.92	0.92
18.45	22.16	203.98	1.27	259.07	1.95	0.94	0.94
18.47	24.17	222.54	1.26	280.04	1.93	0.96	0.96
18.49	25.39	233.41	1.27	295.59	1.94	0.97	0.97
18.51	27.27	250.60	1.26	315.59	1.93	0.99	0.99
18.53	28.51	261.74	1.26	329.95	1.94	1.00	1.00
18.55	30.77	282.81	1.23	348.12	1.89	1.01	1.01
18.57	32.47	298.51	1.21	361.11	1.86	1.02	1.02
18.59	34.57	318.01	1.17	373.32	1.82	1.03	1.03

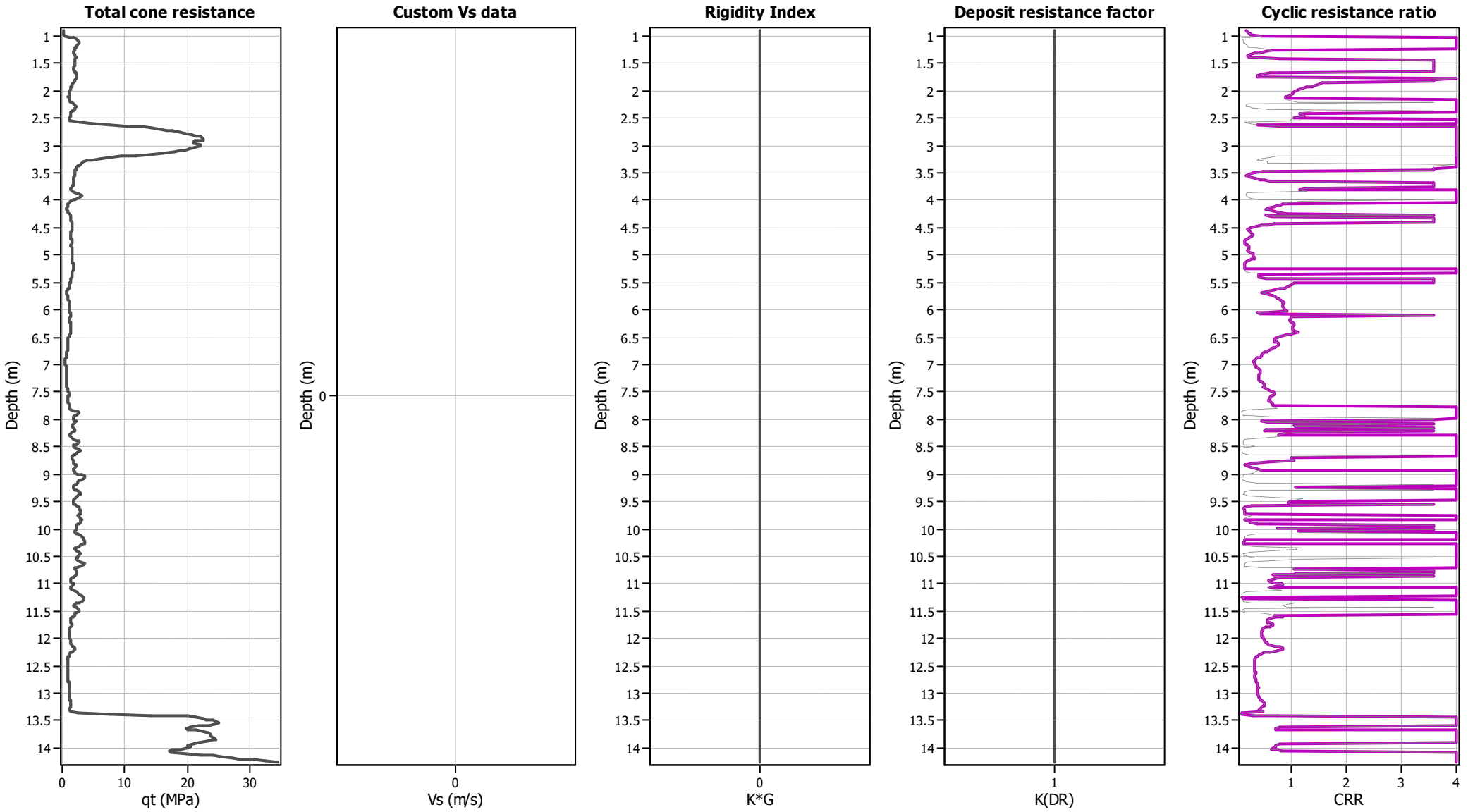
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$

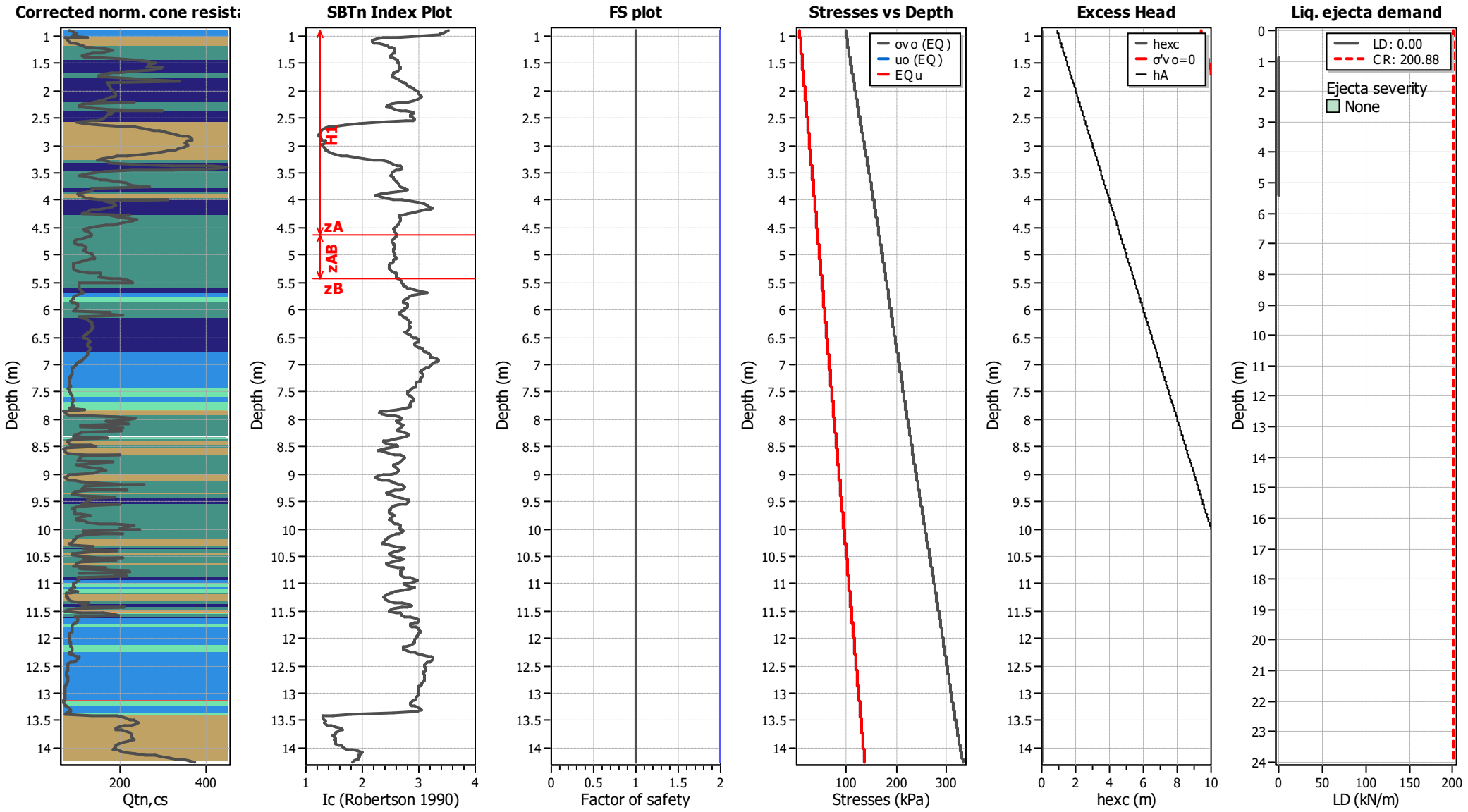
Abbreviations

q_t:	Total cone resistance
K_c:	Cone resistance correction factor due to fines
$Q_{tn,cs}$:	Adjusted and corrected cone resistance due to fines
I_c:	Soil behavior type index
$S_{u(liq)}/\sigma'_v$:	Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$:	Calculated peak undrained strength ratio

Aging Calculation Estimation



Ejecta Severity Estimation



Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

LIQUEFACTION ANALYSIS REPORT

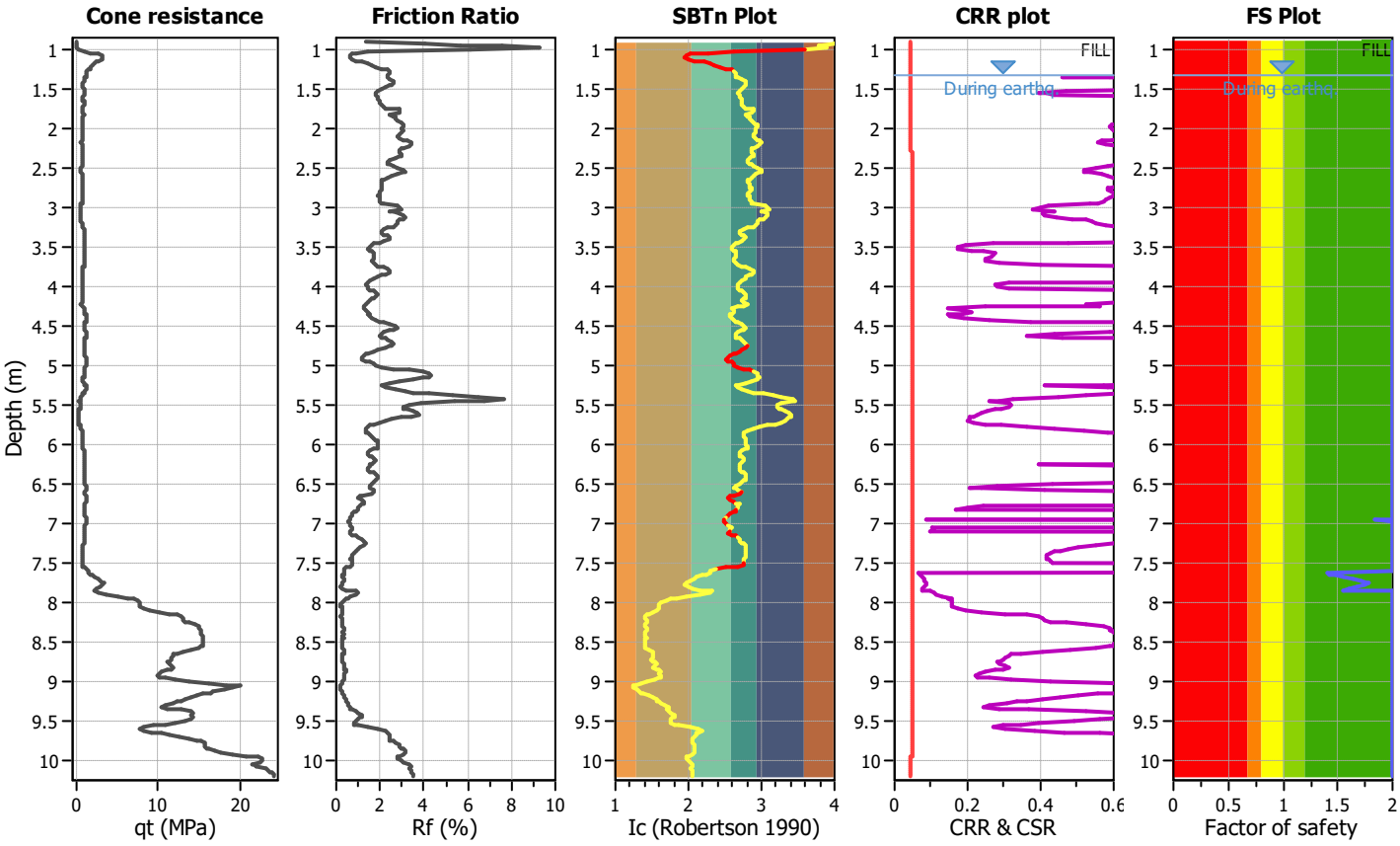
Project title : CWLP Liquefaction Analysis

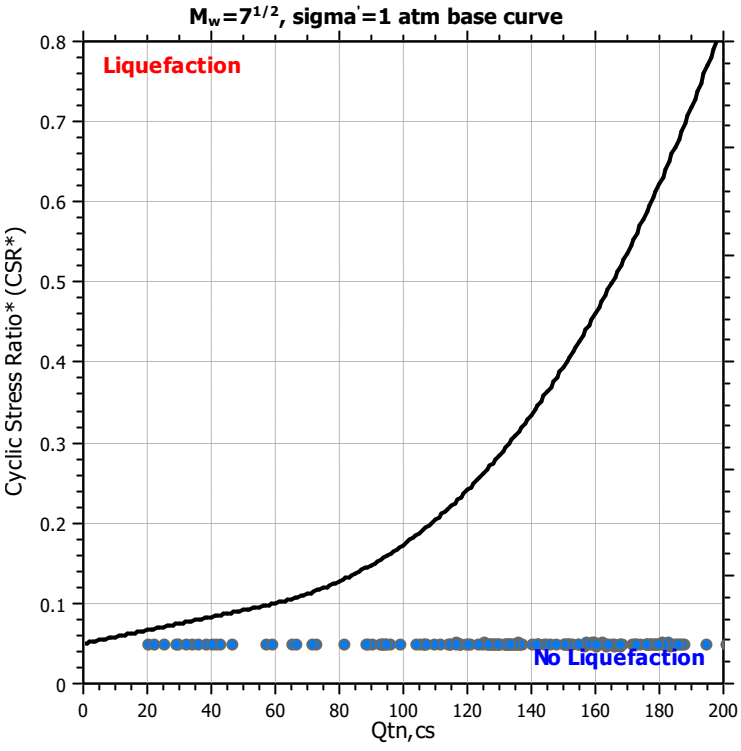
Location : East Lake Shore Drive, Springfield, Illinois

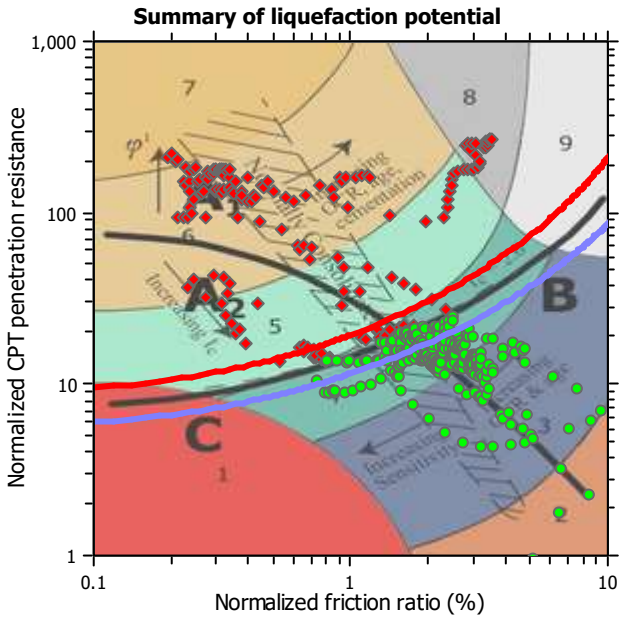
CPT file : CWLP CPT-6L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	1.70 m	Use fill:	Yes	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	8.23 m	Fill height:	6.90 m	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	20.20 kN/m³	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.10	Unit weight calculation:	Based on SBT	K_σ applied:	No		

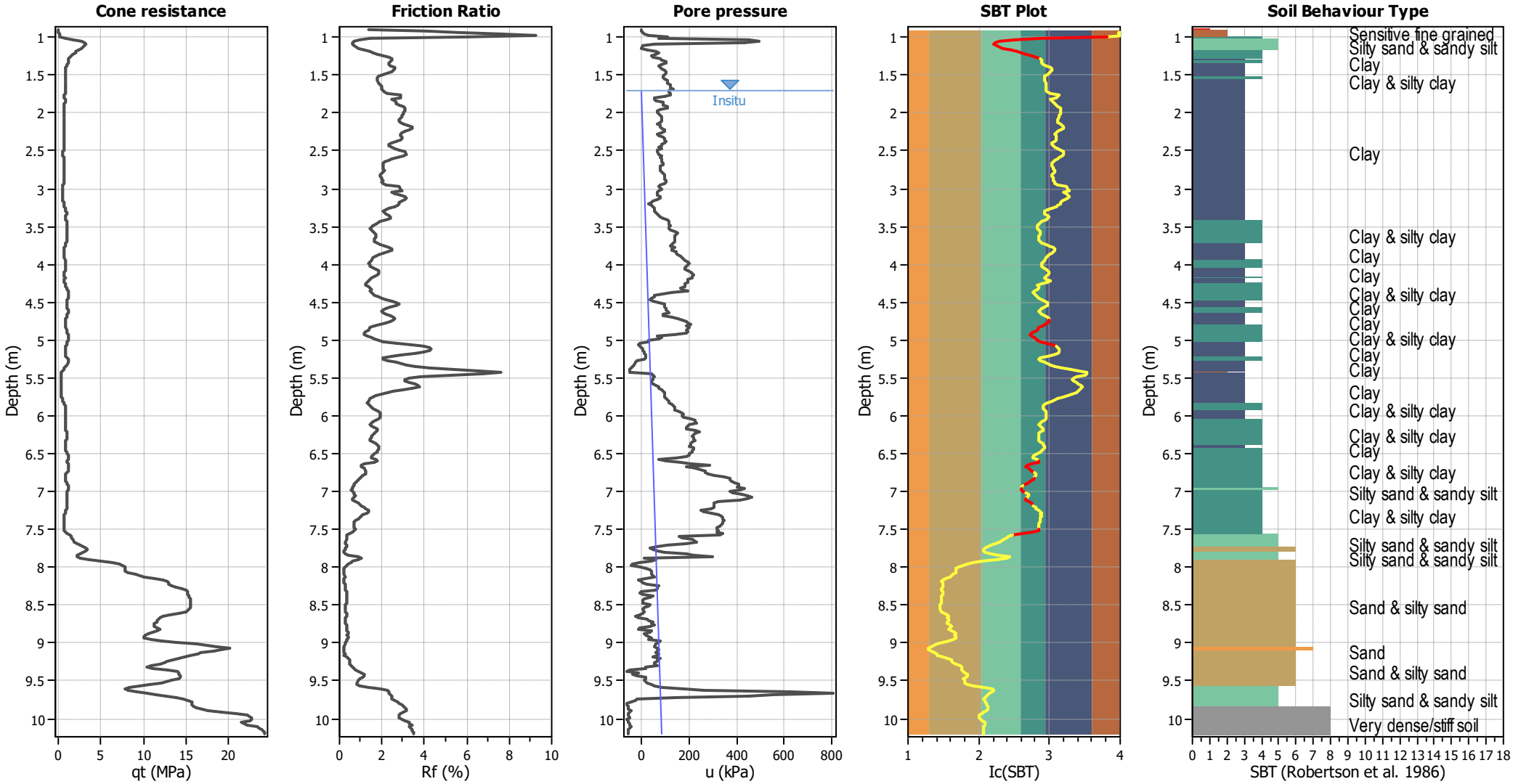






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



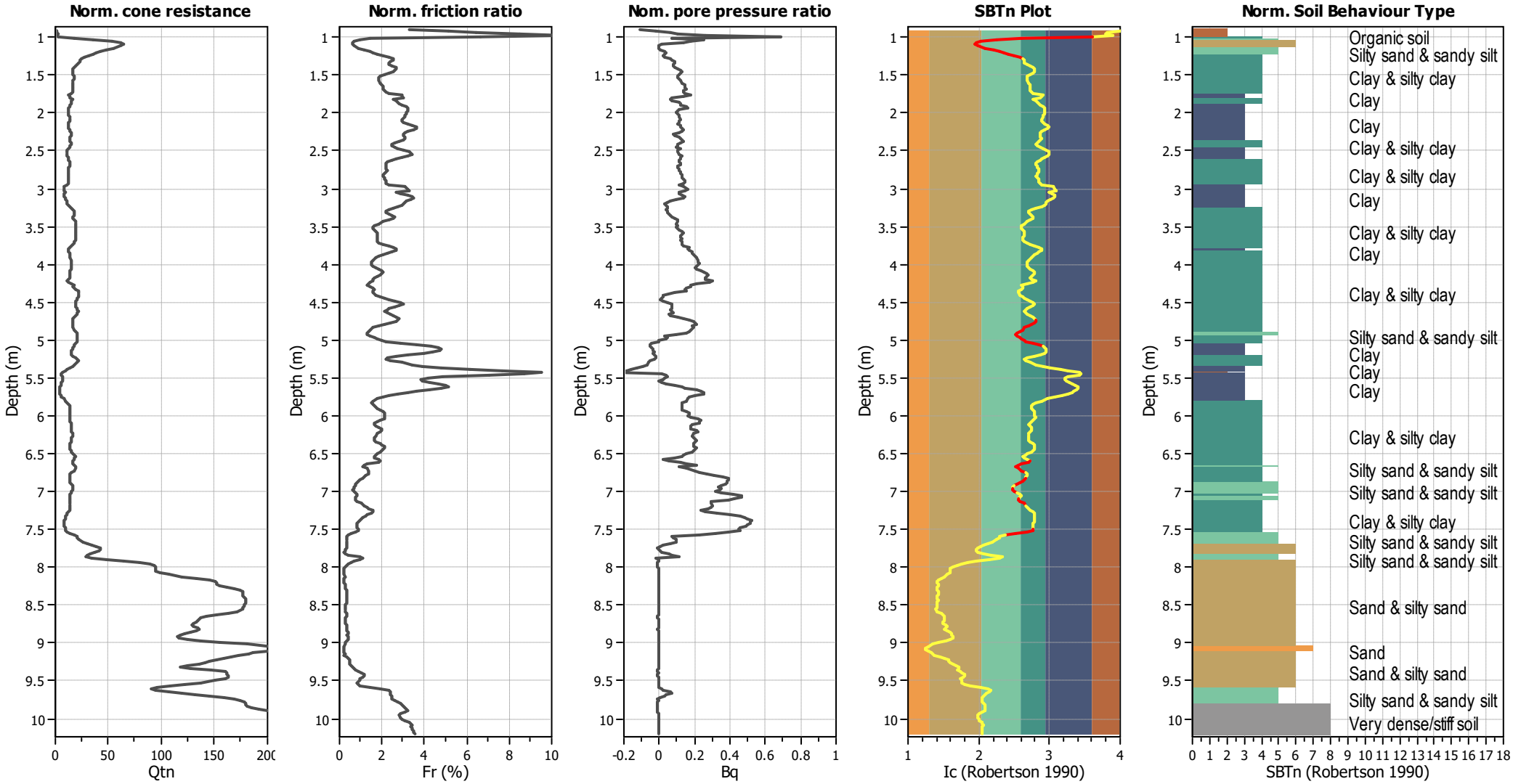
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	8.23 m	Fill weight:	20.20 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	6.90 m	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



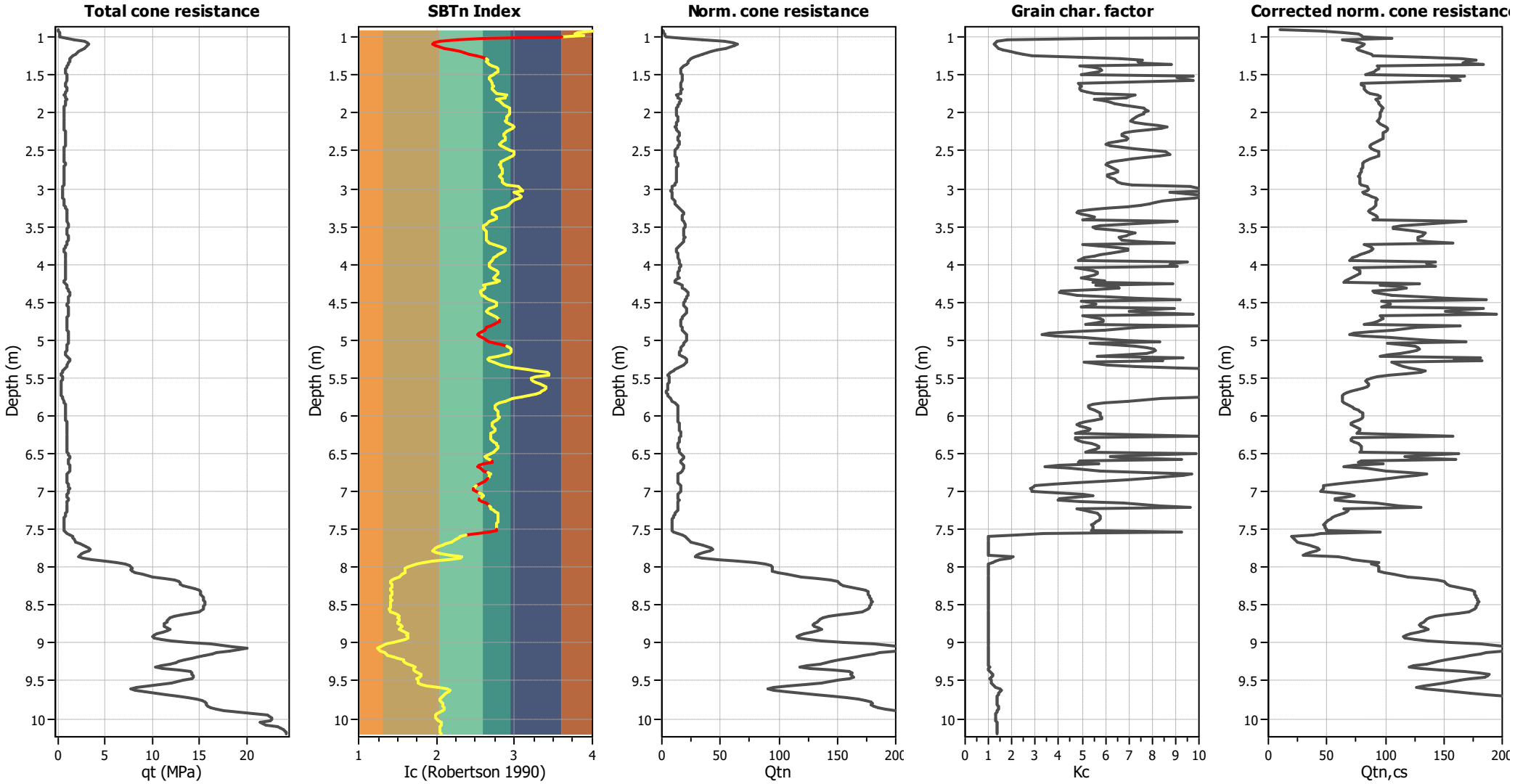
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	8.23 m	Fill weight:	20.20 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	6.90 m	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

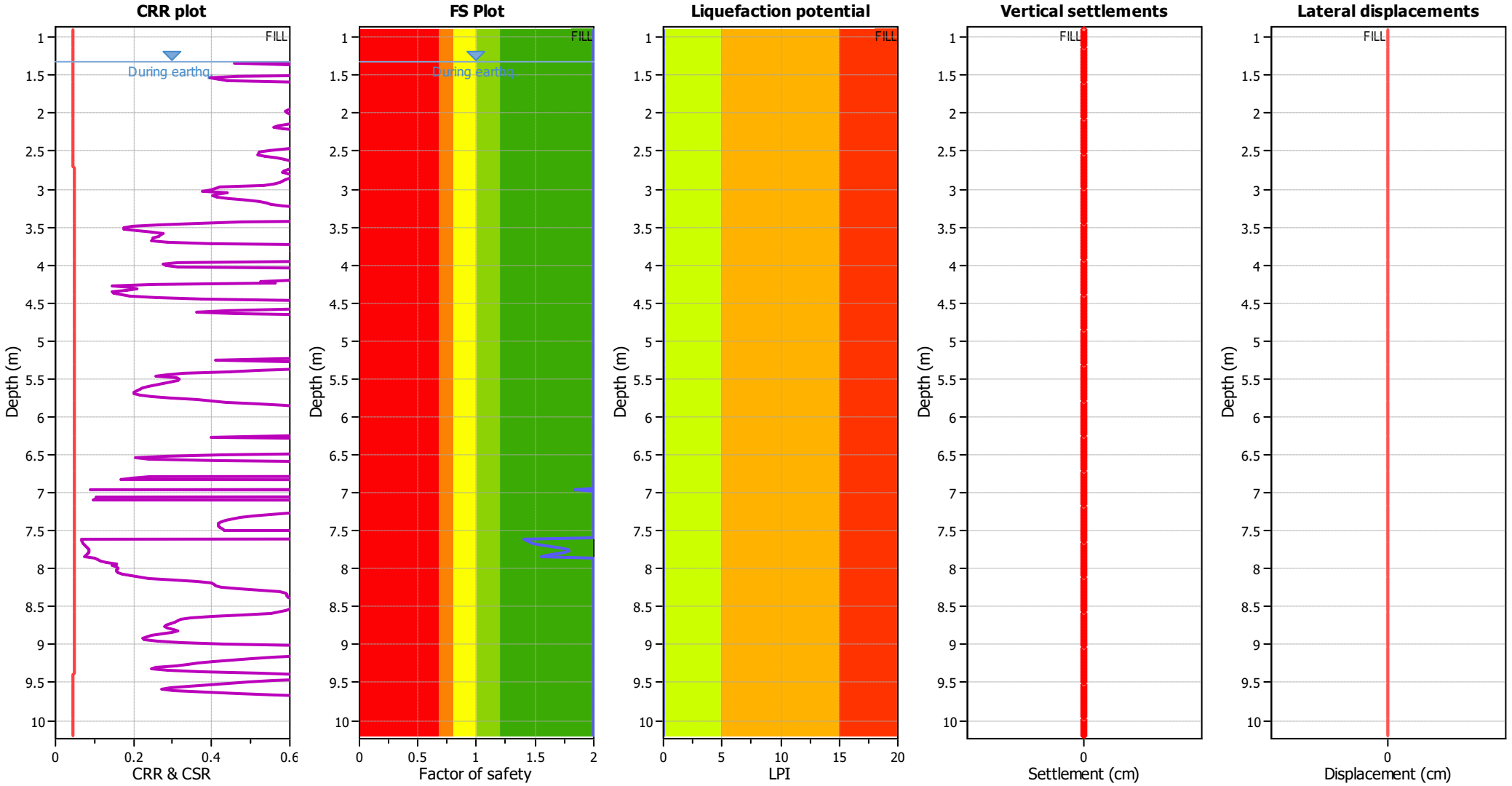
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	8.23 m	Fill weight:	20.20 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	6.90 m	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	8.23 m	Fill weight:	20.20 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	6.90 m	Limit depth:	N/A

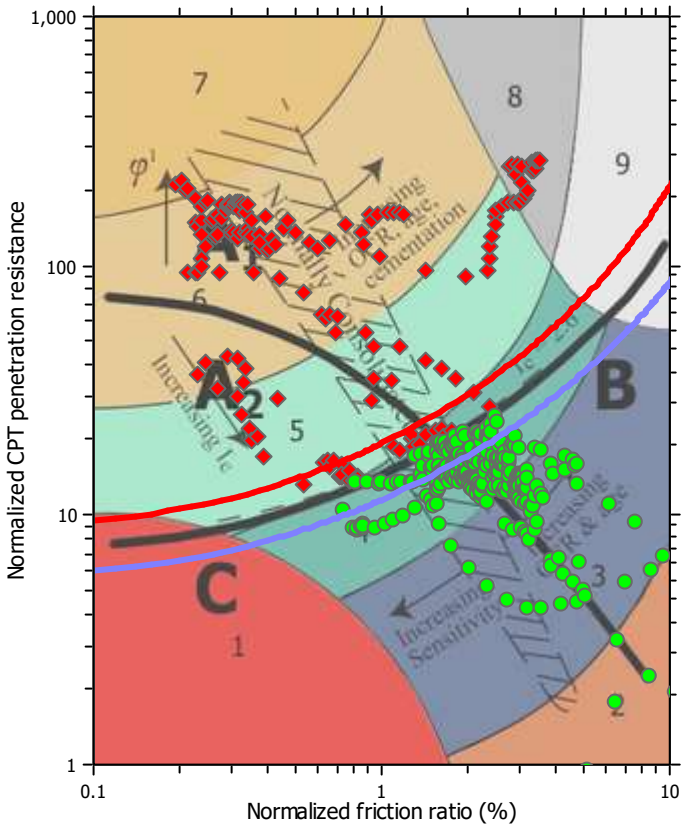
F.S. color scheme

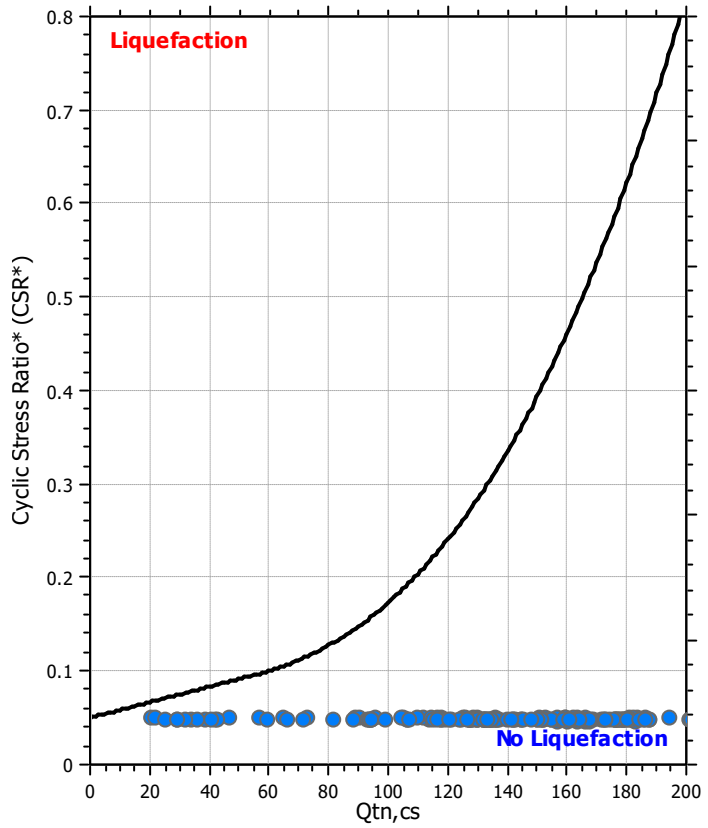
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

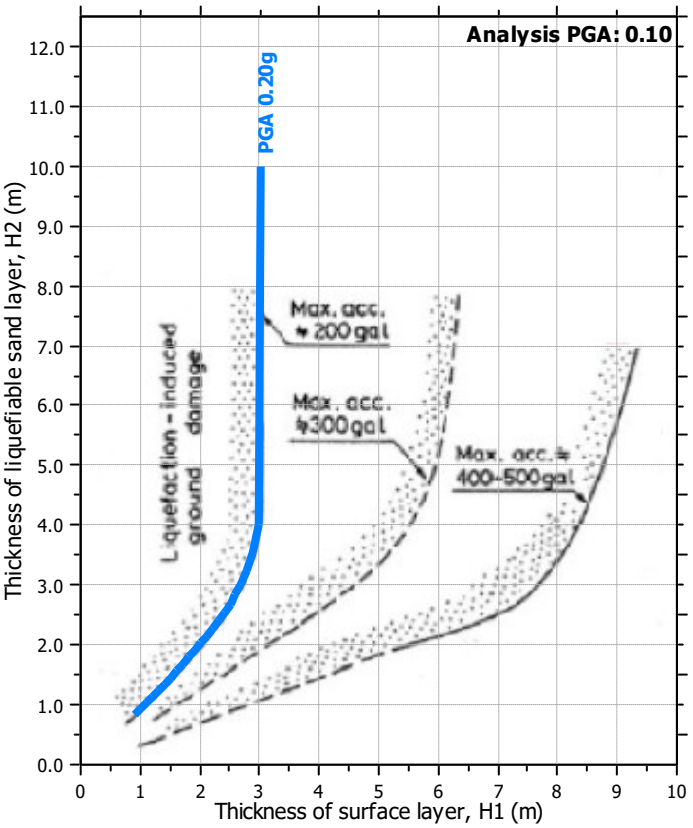
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



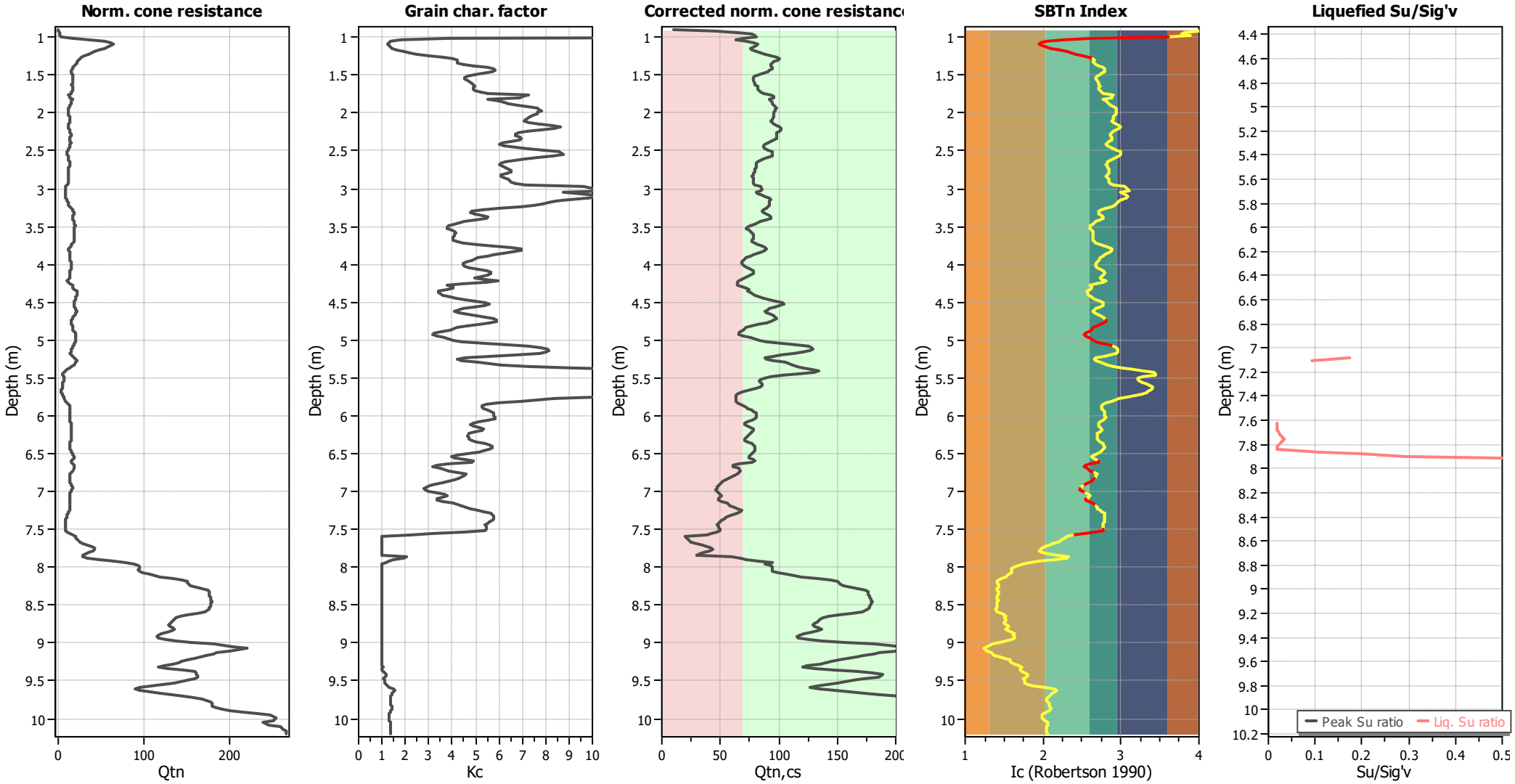




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	8.23 m	Fill weight:	20.20 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	6.90 m	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

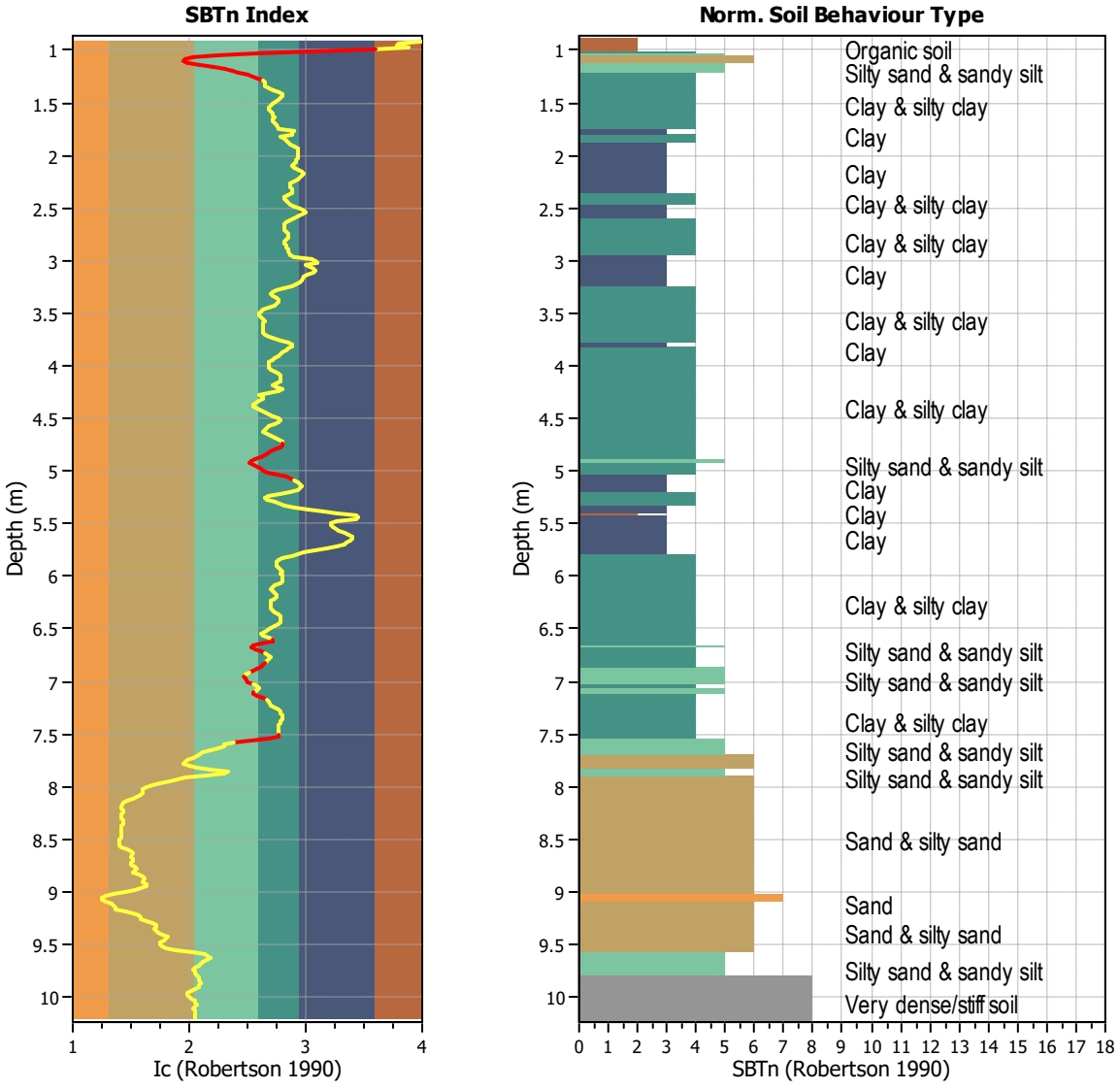
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	8.23 m	Fill weight:	20.20 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.70 m	Fill height:	6.90 m	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		General statistics	
I_c minimum check value:	1.70	Total points in CPT file:	466
I_c maximum check value:	3.00	Total points excluded:	63
I_c change ratio value:	0.0100	Exclusion percentage:	13.52%
Minimum number of points in layer:	4	Number of layers detected:	10

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	5	Start depth: 1.02 (m)	4	Clay & silty clay
		End depth: 1.10 (m)	6	Sand & silty sand
Transition layer 2	11	Start depth: 1.10 (m)	6	Sand & silty sand
		End depth: 1.30 (m)	4	Clay & silty clay
Transition layer 3	8	Start depth: 4.76 (m)	4	Clay & silty clay
		End depth: 4.90 (m)	5	Silty sand & sandy silt
Transition layer 4	10	Start depth: 4.92 (m)	5	Silty sand & sandy silt
		End depth: 5.10 (m)	3	Clay
Transition layer 5	4	Start depth: 6.62 (m)	4	Clay & silty clay
		End depth: 6.68 (m)	5	Silty sand & sandy silt
Transition layer 6	5	Start depth: 6.68 (m)	5	Silty sand & sandy silt
		End depth: 6.76 (m)	4	Clay & silty clay
Transition layer 7	6	Start depth: 6.84 (m)	4	Clay & silty clay
		End depth: 6.94 (m)	5	Silty sand & sandy silt
Transition layer 8	4	Start depth: 6.98 (m)	5	Silty sand & sandy silt
		End depth: 7.04 (m)	4	Clay & silty clay
Transition layer 9	5	Start depth: 7.12 (m)	5	Silty sand & sandy silt
		End depth: 7.20 (m)	4	Clay & silty clay
Transition layer 10	5	Start depth: 7.52 (m)	4	Clay & silty clay
		End depth: 7.60 (m)	5	Silty sand & sandy silt

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.02	0.30	-1.00	100.00	13.73
2	0.92	0.02	0.30	-1.00	100.00	13.73
3	0.94	0.14	6.80	5.60	100.00	14.14
4	0.96	0.15	10.30	11.80	100.00	14.81
5	0.98	0.09	11.90	25.50	100.00	14.84
6	1.00	0.07	8.90	109.60	100.00	15.03
7	1.02	0.32	10.90	68.20	35.95	15.93
8	1.04	2.27	20.00	448.60	21.18	16.44
9	1.06	2.61	18.90	490.60	13.98	16.76
10	1.08	3.12	18.20	433.00	12.18	16.85
11	1.10	3.43	22.10	51.80	11.52	16.90
12	1.12	3.19	20.30	1.70	12.60	16.99
13	1.14	2.86	23.80	-3.20	15.53	17.05
14	1.16	2.25	28.90	21.80	19.17	17.15
15	1.18	2.14	30.60	57.40	22.68	17.21
16	1.20	2.00	31.60	72.60	24.79	17.22
17	1.22	1.79	32.50	60.30	27.38	17.21
18	1.24	1.59	32.40	40.00	30.83	17.19
19	1.26	1.39	33.70	44.70	34.49	17.13
20	1.28	1.21	32.00	76.90	36.95	17.05
21	1.30	1.19	28.70	82.50	37.99	16.96
22	1.32	1.17	28.50	98.90	37.79	16.88
23	1.34	1.13	26.60	99.80	37.86	16.81
24	1.36	1.11	24.30	81.30	39.24	16.71
25	1.38	0.94	23.70	73.50	41.51	16.62
26	1.40	0.86	23.20	77.50	44.42	16.55
27	1.42	0.83	22.10	83.60	45.67	16.49
28	1.44	0.80	21.00	96.90	45.79	16.41
29	1.46	0.80	19.70	100.40	45.35	16.37
30	1.48	0.82	19.70	100.40	43.68	16.31
31	1.50	0.86	17.70	96.60	41.79	16.26
32	1.52	0.88	16.40	91.70	40.11	16.18
33	1.54	0.88	15.90	91.50	39.50	16.14
34	1.56	0.88	16.00	94.90	39.71	16.15
35	1.58	0.87	16.70	105.90	40.09	16.11
36	1.60	0.82	14.50	105.90	41.04	16.13
37	1.62	0.83	17.20	118.00	41.47	16.13
38	1.64	0.84	16.90	117.80	41.84	16.19
39	1.66	0.84	17.10	122.90	41.43	16.21
40	1.68	0.87	17.70	129.60	41.42	16.23
41	1.70	0.85	17.60	115.00	41.87	16.24
42	1.72	0.83	17.90	115.70	43.06	16.25
43	1.74	0.80	18.70	118.30	44.36	16.27
44	1.76	0.78	19.00	119.50	52.25	16.25
45	1.78	0.39	20.40	97.70	51.10	16.33
46	1.80	0.92	21.90	54.30	50.58	16.38
47	1.82	0.86	21.20	51.40	44.61	16.47
48	1.84	0.81	21.60	60.40	46.50	16.44

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	0.77	21.30	86.90	47.73	16.41
50	1.88	0.76	20.50	88.80	48.53	16.39
51	1.90	0.74	20.90	89.10	50.17	16.38
52	1.92	0.68	21.90	106.60	52.10	16.37
53	1.94	0.66	21.00	107.30	53.88	16.33
54	1.96	0.64	19.80	74.20	54.18	16.29
55	1.98	0.65	20.00	66.60	54.53	16.28
56	2.00	0.64	20.60	64.90	53.92	16.26
57	2.02	0.66	18.80	72.10	53.87	16.29
58	2.04	0.67	21.30	77.30	53.02	16.30
59	2.06	0.69	20.70	80.90	52.55	16.33
60	2.08	0.69	19.80	84.00	51.63	16.30
61	2.10	0.69	19.50	81.90	51.44	16.28
62	2.12	0.68	19.50	77.40	52.35	16.27
63	2.14	0.65	20.00	67.60	54.20	16.28
64	2.16	0.62	20.80	78.30	56.32	16.30
65	2.18	0.60	21.30	78.40	57.79	16.34
66	2.20	0.61	22.40	85.80	56.81	16.39
67	2.22	0.69	23.20	95.10	54.54	16.45
68	2.24	0.73	22.90	97.50	51.93	16.47
69	2.26	0.75	22.40	86.10	50.35	16.46
70	2.28	0.77	22.00	66.60	49.77	16.47
71	2.30	0.77	22.70	73.20	49.93	16.47
72	2.32	0.75	22.90	86.70	50.74	16.46
73	2.34	0.71	21.80	93.50	51.04	16.43
74	2.36	0.73	21.30	97.40	50.57	16.39
75	2.38	0.75	20.60	103.80	48.97	16.35
76	2.40	0.77	19.10	94.30	47.30	16.29
77	2.42	0.78	18.00	82.90	46.88	16.23
78	2.44	0.73	17.50	83.80	47.61	16.16
79	2.46	0.69	16.70	72.30	49.78	16.11
80	2.48	0.64	16.90	82.50	52.06	16.09
81	2.50	0.61	17.50	66.40	54.99	16.10
82	2.52	0.58	18.30	65.50	57.72	16.13
83	2.54	0.55	18.90	70.20	58.41	16.15
84	2.56	0.60	18.70	82.00	56.74	16.15
85	2.58	0.64	17.60	80.20	53.99	16.12
86	2.60	0.65	16.80	85.10	51.65	16.06
87	2.62	0.66	15.20	80.40	49.93	16.01
88	2.64	0.69	15.20	84.80	47.88	15.96
89	2.66	0.72	14.40	90.10	46.98	15.97
90	2.68	0.71	15.00	91.60	46.79	15.96
91	2.70	0.69	14.90	77.10	47.44	15.95
92	2.72	0.68	14.20	75.70	47.85	15.91
93	2.74	0.66	13.80	80.20	48.51	15.87
94	2.76	0.64	14.00	79.10	49.12	15.85
95	2.78	0.64	13.80	84.80	49.06	15.84
96	2.80	0.66	13.30	89.60	48.08	15.84

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	0.68	13.60	96.60	47.17	15.82
98	2.84	0.67	13.10	94.10	46.96	15.83
99	2.86	0.67	13.30	95.30	47.68	15.82
100	2.88	0.65	13.60	96.40	48.38	15.82
101	2.90	0.64	13.40	99.20	48.81	15.81
102	2.92	0.64	13.10	100.00	49.06	15.79
103	2.94	0.62	13.00	94.50	49.98	15.77
104	2.96	0.60	13.20	78.20	51.83	15.78
105	2.98	0.57	13.70	73.80	61.72	15.74
106	3.00	0.27	14.50	81.10	63.93	15.70
107	3.02	0.53	12.70	69.70	65.62	15.64
108	3.04	0.51	12.20	64.60	58.48	15.63
109	3.06	0.47	12.50	62.40	60.98	15.63
110	3.08	0.45	13.30	67.60	63.49	15.71
111	3.10	0.47	15.10	76.80	64.22	15.83
112	3.12	0.50	16.70	79.00	62.59	15.96
113	3.14	0.56	17.60	65.30	59.59	16.05
114	3.16	0.61	17.60	47.90	57.04	16.09
115	3.18	0.62	17.60	41.60	55.78	16.11
116	3.20	0.62	17.70	30.50	54.99	16.13
117	3.22	0.65	18.10	39.30	53.35	16.16
118	3.24	0.70	18.30	45.60	50.80	16.21
119	3.26	0.77	18.90	50.00	46.74	16.28
120	3.28	0.91	19.30	50.20	43.52	16.35
121	3.30	0.95	19.70	55.00	41.00	16.40
122	3.32	0.99	20.20	59.50	40.81	16.45
123	3.34	0.97	21.50	62.70	41.63	16.49
124	3.36	0.92	21.90	72.10	43.33	16.50
125	3.38	0.87	21.50	78.80	44.51	16.50
126	3.40	0.88	22.20	90.00	44.24	16.50
127	3.42	0.93	21.80	106.60	42.09	16.46
128	3.44	0.98	18.60	112.60	39.46	16.40
129	3.46	1.03	18.10	114.60	37.16	16.32
130	3.48	1.04	17.10	119.20	35.87	16.25
131	3.50	1.03	15.10	116.40	35.43	16.18
132	3.52	1.00	15.10	116.90	35.62	16.11
133	3.54	0.97	14.90	120.90	36.56	16.13
134	3.56	0.96	16.20	139.20	37.24	16.17
135	3.58	0.97	16.80	147.60	37.64	16.23
136	3.60	0.98	17.10	144.90	37.37	16.27
137	3.62	1.02	17.70	139.60	37.21	16.29
138	3.64	1.01	17.70	138.10	36.90	16.30
139	3.66	1.02	17.30	141.20	36.98	16.28
140	3.68	1.00	16.80	137.80	37.01	16.25
141	3.70	0.99	16.70	138.80	37.85	16.22
142	3.72	0.92	16.40	134.50	39.37	16.21
143	3.74	0.87	17.00	125.70	42.17	16.20
144	3.76	0.79	17.50	121.50	45.38	16.20

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	0.72	17.90	139.50	48.63	16.18
146	3.80	0.68	17.60	124.90	50.81	16.16
147	3.82	0.66	17.30	128.20	51.03	16.12
148	3.84	0.69	16.50	143.20	49.40	16.06
149	3.86	0.72	14.70	146.30	47.58	16.00
150	3.88	0.71	14.40	152.40	45.65	15.90
151	3.90	0.72	12.40	160.20	44.43	15.83
152	3.92	0.74	12.10	170.80	42.47	15.76
153	3.94	0.77	11.80	180.70	41.04	15.74
154	3.96	0.79	11.40	190.70	39.89	15.72
155	3.98	0.80	11.40	196.60	39.23	15.74
156	4.00	0.83	12.00	192.90	39.18	15.79
157	4.02	0.83	12.70	189.90	39.49	15.84
158	4.04	0.82	13.10	182.30	40.68	15.89
159	4.06	0.79	13.90	182.80	42.35	15.93
160	4.08	0.75	14.50	193.80	44.18	15.96
161	4.10	0.73	14.80	203.00	45.15	15.95
162	4.12	0.72	13.90	211.30	45.16	15.92
163	4.14	0.73	13.40	217.50	44.61	15.86
164	4.16	0.72	12.60	213.80	43.31	15.81
165	4.18	0.76	12.00	210.90	41.77	15.76
166	4.20	0.79	11.50	196.10	43.45	15.54
167	4.22	0.49	7.30	193.10	46.45	15.30
168	4.24	0.49	7.30	193.10	44.18	15.31
169	4.26	0.90	11.40	182.20	39.32	15.55
170	4.28	0.90	11.40	182.20	35.63	15.76
171	4.30	0.90	11.40	182.20	36.82	15.88
172	4.32	0.90	15.10	163.80	36.86	16.04
173	4.34	1.03	16.40	169.70	35.60	16.22
174	4.36	1.16	17.10	194.50	33.33	16.31
175	4.38	1.22	17.60	126.80	33.26	16.39
176	4.40	1.14	19.60	51.10	34.47	16.46
177	4.42	1.14	21.00	53.70	36.30	16.54
178	4.44	1.14	22.20	42.90	37.72	16.61
179	4.46	1.09	24.00	35.90	39.60	16.68
180	4.48	1.04	25.70	48.40	41.79	16.76
181	4.50	1.03	28.30	71.30	43.94	16.82
182	4.52	0.97	29.40	95.00	44.82	16.83
183	4.54	0.98	26.80	96.70	43.85	16.78
184	4.56	1.05	24.60	94.90	41.90	16.74
185	4.58	1.08	25.60	102.20	39.34	16.70
186	4.60	1.15	22.90	99.40	38.15	16.69
187	4.62	1.15	23.30	104.80	37.39	16.67
188	4.64	1.13	23.70	115.10	38.40	16.67
189	4.66	1.07	23.70	87.30	40.08	16.68
190	4.68	1.02	24.90	91.40	42.20	16.68
191	4.70	0.96	25.20	124.30	43.96	16.66
192	4.72	0.91	23.60	147.60	45.52	16.62

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	0.86	23.30	166.80	46.21	16.55
194	4.76	0.84	21.60	188.40	46.08	16.46
195	4.78	0.84	19.30	193.40	44.81	16.35
196	4.80	0.85	17.50	205.00	42.61	16.21
197	4.82	0.88	14.60	187.60	40.27	16.08
198	4.84	0.90	13.40	196.60	37.79	15.98
199	4.86	0.95	13.10	190.20	36.11	15.95
200	4.88	0.99	13.20	196.50	34.14	15.99
201	4.90	1.13	13.80	188.30	32.41	16.02
202	4.92	1.18	13.10	141.00	31.81	16.09
203	4.94	1.16	15.30	66.40	32.91	16.19
204	4.96	1.12	17.80	82.10	34.87	16.32
205	4.98	1.10	18.90	71.80	35.95	16.43
206	5.00	1.16	20.40	30.10	37.03	16.52
207	5.02	1.12	22.60	30.70	38.79	16.62
208	5.04	1.04	24.90	-8.70	43.62	16.83
209	5.06	0.98	35.90	-17.50	48.32	17.01
210	5.08	0.96	38.30	-9.80	52.28	17.14
211	5.10	0.92	38.80	-4.20	54.31	17.16
212	5.12	0.88	39.10	3.90	55.60	17.14
213	5.14	0.87	37.60	3.00	55.97	17.09
214	5.16	0.85	34.90	10.20	55.38	16.95
215	5.18	0.80	27.30	10.80	54.40	16.78
216	5.20	0.79	24.40	13.70	50.19	16.61
217	5.22	0.95	22.40	17.00	45.20	16.57
218	5.24	1.07	22.50	17.10	39.71	16.60
219	5.26	1.26	22.60	7.60	37.98	16.72
220	5.28	1.25	27.50	-19.30	38.91	16.87
221	5.30	1.14	31.90	-27.90	42.36	16.99
222	5.32	1.07	33.70	-30.50	46.98	16.98
223	5.34	0.86	30.20	-36.90	52.19	16.92
224	5.36	0.77	31.00	-46.20	59.91	16.86
225	5.38	0.65	34.10	-52.60	69.44	16.88
226	5.40	0.53	37.50	-52.40	78.30	16.90
227	5.42	0.53	37.50	-52.40	92.53	16.69
228	5.44	0.25	23.80	40.00	94.06	16.40
229	5.46	0.39	18.30	47.90	92.66	16.00
230	5.48	0.41	15.90	52.60	78.48	15.84
231	5.50	0.42	13.80	48.40	74.78	15.70
232	5.52	0.42	12.60	44.70	73.94	15.59
233	5.54	0.39	12.00	37.60	75.79	15.52
234	5.56	0.37	12.20	42.80	79.47	15.51
235	5.58	0.35	13.00	49.50	83.47	15.52
236	5.60	0.33	13.00	60.80	87.08	15.51
237	5.62	0.31	12.40	68.40	89.51	15.45
238	5.64	0.30	11.50	72.10	89.51	15.30
239	5.66	0.30	8.80	85.00	87.99	15.11
240	5.68	0.29	7.80	89.80	85.47	14.90

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.29	6.90	94.70	83.22	14.77
242	5.72	0.30	6.20	97.40	78.18	14.68
243	5.74	0.34	6.00	93.70	71.55	14.68
244	5.76	0.38	6.20	94.80	64.36	14.78
245	5.78	0.45	7.00	103.00	56.97	14.92
246	5.80	0.55	7.30	114.40	51.01	15.11
247	5.82	0.65	8.60	114.50	46.46	15.34
248	5.84	0.76	10.60	126.40	44.22	15.56
249	5.86	0.79	11.70	131.50	43.14	15.73
250	5.88	0.82	12.50	136.90	43.18	15.85
251	5.90	0.83	14.00	139.10	43.47	15.93
252	5.92	0.83	14.30	137.30	44.37	16.02
253	5.94	0.82	15.80	155.50	45.05	16.08
254	5.96	0.83	16.50	168.10	45.67	16.14
255	5.98	0.83	16.50	173.90	45.51	16.14
256	6.00	0.84	15.90	168.50	45.72	16.15
257	6.02	0.83	16.90	175.50	45.98	16.14
258	6.04	0.80	16.10	207.60	45.85	16.11
259	6.06	0.82	14.80	221.20	44.61	16.04
260	6.08	0.86	13.90	223.20	42.69	15.98
261	6.10	0.89	13.40	228.60	41.32	15.96
262	6.12	0.91	13.40	200.70	40.78	15.97
263	6.14	0.91	14.00	191.70	41.31	16.03
264	6.16	0.91	15.60	189.90	42.58	16.09
265	6.18	0.86	15.90	189.10	43.54	16.16
266	6.20	0.90	17.10	221.60	43.36	16.20
267	6.22	0.94	17.00	241.30	41.81	16.23
268	6.24	1.00	16.20	225.50	40.67	16.21
269	6.26	0.98	15.80	211.30	40.27	16.15
270	6.28	0.94	14.60	216.20	40.56	16.08
271	6.30	0.92	13.80	220.40	40.64	16.01
272	6.32	0.92	13.60	223.40	41.17	16.00
273	6.34	0.90	14.60	211.80	42.20	16.04
274	6.36	0.88	15.50	206.90	43.79	16.11
275	6.38	0.86	16.50	203.50	44.80	16.15
276	6.40	0.86	16.50	202.60	45.45	16.19
277	6.42	0.87	17.20	216.70	45.25	16.20
278	6.44	0.89	16.90	216.90	44.71	16.23
279	6.46	0.92	17.30	212.50	43.67	16.24
280	6.48	0.96	17.20	209.70	42.67	16.27
281	6.50	0.99	17.50	198.00	40.18	16.32
282	6.52	1.18	18.20	196.60	38.10	16.38
283	6.54	1.22	18.90	190.20	36.44	16.42
284	6.56	1.21	18.00	144.70	37.23	16.41
285	6.58	1.11	18.30	68.40	39.67	16.43
286	6.60	1.02	21.00	99.00	41.52	16.38
287	6.62	1.00	16.60	165.60	41.09	16.30
288	6.64	1.06	14.90	204.70	35.78	16.06

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	1.27	9.80	287.40	33.20	16.01
290	6.68	1.24	14.00	185.70	32.06	16.04
291	6.70	1.24	15.50	225.10	33.92	16.19
292	6.72	1.20	15.50	266.70	35.87	16.14
293	6.74	0.96	13.10	264.10	38.09	15.99
294	6.76	0.88	11.50	279.10	40.02	15.79
295	6.78	0.87	10.10	302.50	39.72	15.66
296	6.80	0.89	9.70	347.40	38.96	15.57
297	6.82	0.86	9.10	369.30	38.25	15.47
298	6.84	0.85	7.70	372.50	37.33	15.36
299	6.86	0.89	7.40	378.00	36.06	15.29
300	6.88	0.93	7.50	391.80	34.39	15.30
301	6.90	1.00	7.40	407.90	32.75	15.31
302	6.92	1.07	7.30	409.30	31.10	15.34
303	6.94	1.13	7.50	404.20	30.12	15.34
304	6.96	1.12	7.10	432.80	29.52	15.30
305	6.98	1.11	6.50	415.50	29.69	15.22
306	7.00	1.05	6.30	369.80	30.81	15.20
307	7.02	0.98	7.00	381.20	32.95	15.21
308	7.04	0.89	7.10	417.80	34.84	15.21
309	7.06	0.87	6.80	447.40	35.41	15.21
310	7.08	0.91	7.00	461.80	34.37	15.18
311	7.10	0.97	6.50	445.70	33.18	15.17
312	7.12	0.98	6.30	415.30	33.10	15.20
313	7.14	0.97	7.40	319.20	34.67	15.31
314	7.16	0.92	8.80	303.40	37.11	15.45
315	7.18	0.88	9.60	306.30	38.79	15.59
316	7.20	0.92	10.70	302.80	39.97	15.73
317	7.22	0.94	12.70	292.60	40.70	15.84
318	7.24	0.92	12.80	249.40	42.39	15.92
319	7.26	0.86	13.60	258.60	43.69	15.83
320	7.28	0.79	10.40	291.70	45.07	15.66
321	7.30	0.70	8.40	321.80	45.26	15.37
322	7.32	0.68	7.20	336.20	45.65	15.18
323	7.34	0.65	6.70	341.10	45.66	15.03
324	7.36	0.63	5.90	342.90	45.75	14.89
325	7.38	0.61	5.20	345.70	45.45	14.76
326	7.40	0.61	4.80	342.10	44.82	14.64
327	7.42	0.61	4.40	340.80	44.39	14.58
328	7.44	0.61	4.50	332.50	43.99	14.55
329	7.46	0.62	4.40	331.00	44.17	14.61
330	7.48	0.64	5.10	315.90	44.08	14.67
331	7.50	0.65	5.10	313.70	44.21	14.70
332	7.52	0.63	4.80	322.00	43.94	14.71
333	7.54	0.66	5.20	318.40	39.67	14.74
334	7.56	0.91	4.90	341.70	31.90	14.79
335	7.58	1.30	4.20	325.60	25.47	14.84
336	7.60	1.55	4.70	156.60	5.00	14.98

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	1.57	5.90	170.90	5.00	15.10
338	7.64	1.52	5.50	213.60	5.00	15.15
339	7.66	1.92	5.10	231.80	5.00	15.28
340	7.68	2.26	7.10	187.80	5.00	15.52
341	7.70	2.59	8.40	109.60	5.00	15.80
342	7.72	2.98	9.50	63.70	5.00	16.01
343	7.74	3.35	11.00	31.40	5.00	16.10
344	7.76	3.47	9.60	43.50	5.00	16.03
345	7.78	3.21	7.70	65.10	5.00	15.76
346	7.80	2.84	5.30	93.20	5.00	15.51
347	7.82	2.45	5.90	189.70	5.00	15.50
348	7.84	2.18	8.30	217.00	5.00	15.86
349	7.86	2.05	13.60	297.40	23.72	16.68
350	7.88	2.23	35.40	6.80	22.54	17.13
351	7.90	3.45	30.70	55.90	17.51	17.49
352	7.92	5.09	31.70	40.40	11.88	17.59
353	7.94	6.44	33.60	-9.40	8.92	17.71
354	7.96	7.24	33.10	-41.30	5.00	17.69
355	7.98	7.70	26.60	-48.20	5.00	17.56
356	8.00	7.86	21.30	-7.60	4.88	17.27
357	8.02	7.82	14.90	18.80	4.38	17.06
358	8.04	7.73	15.70	34.20	4.26	16.99
359	8.06	7.80	18.30	38.60	4.41	17.09
360	8.08	8.01	19.40	40.30	4.21	17.21
361	8.10	8.86	20.40	40.30	3.67	17.33
362	8.12	10.00	22.90	55.50	3.12	17.55
363	8.14	11.29	30.10	14.70	2.44	17.69
364	8.16	12.59	26.90	-13.10	1.93	17.79
365	8.18	13.07	27.10	-4.50	1.69	17.83
366	8.20	12.93	31.90	3.10	1.74	17.90
367	8.22	12.98	32.00	19.70	1.91	17.99
368	8.24	13.17	34.80	68.80	1.89	18.04
369	8.26	13.52	35.60	62.90	1.78	18.15
370	8.28	14.71	40.70	63.40	1.71	18.28
371	8.30	15.03	46.00	58.50	1.75	18.42
372	8.32	15.17	50.60	-3.80	1.92	18.53
373	8.34	15.10	53.30	-10.60	1.97	18.56
374	8.36	15.18	49.70	4.10	1.88	18.52
375	8.38	15.23	45.70	45.80	1.70	18.47
376	8.40	15.43	46.30	33.60	1.75	18.50
377	8.42	15.40	53.80	11.80	1.68	18.49
378	8.44	15.56	44.30	2.60	1.79	18.55
379	8.46	15.48	52.80	1.10	1.65	18.51
380	8.48	15.70	48.40	5.80	1.65	18.49
381	8.50	15.41	42.50	33.00	1.55	18.44
382	8.52	15.45	46.50	25.30	1.57	18.43
383	8.54	15.52	48.10	7.40	1.54	18.42
384	8.56	15.39	40.50	2.40	1.44	18.35

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	15.21	38.70	7.90	1.67	18.36
386	8.60	14.30	50.20	4.60	2.36	18.44
387	8.62	12.83	53.40	-10.70	2.86	18.38
388	8.64	12.16	34.40	-24.30	3.07	18.23
389	8.66	11.87	36.20	-12.70	2.89	18.04
390	8.68	11.66	35.50	23.20	3.02	18.05
391	8.70	11.77	35.70	30.10	3.02	18.01
392	8.72	11.49	32.60	49.00	2.80	17.87
393	8.74	11.29	23.90	39.90	2.84	17.82
394	8.76	11.20	32.30	54.50	3.37	17.99
395	8.78	11.09	47.90	32.50	3.68	18.15
396	8.80	11.62	38.20	-7.30	3.43	18.15
397	8.82	12.20	31.90	-11.70	3.13	18.11
398	8.84	11.77	42.40	39.30	3.79	18.25
399	8.86	10.60	54.20	35.50	4.39	18.30
400	8.88	10.76	39.90	11.40	4.77	18.24
401	8.90	10.12	38.00	18.50	4.49	18.06
402	8.92	9.83	35.60	27.40	4.87	18.09
403	8.94	9.99	44.20	38.60	4.86	18.15
404	8.96	10.62	43.00	25.90	4.16	18.16
405	8.98	12.05	34.50	77.90	3.26	18.19
406	9.00	13.40	43.10	69.40	2.05	18.17
407	9.02	15.80	36.10	58.70	1.00	18.27
408	9.04	19.44	38.10	55.20	0.21	18.31
409	9.06	20.22	41.90	62.80	0.00	18.38
410	9.08	20.40	39.80	68.80	0.00	18.26
411	9.10	16.69	28.20	67.70	0.26	18.28
412	9.12	17.62	45.90	58.30	0.74	18.25
413	9.14	16.02	39.50	73.00	1.04	18.32
414	9.16	15.52	36.80	64.20	1.16	18.18
415	9.18	15.07	33.20	48.80	2.12	18.46
416	9.20	13.90	72.40	76.00	2.99	18.63
417	9.22	13.39	61.30	63.80	3.85	18.74
418	9.24	12.93	53.90	65.00	3.97	18.63
419	9.26	12.17	57.80	54.60	4.20	18.59
420	9.28	12.17	57.80	54.60	4.81	18.64
421	9.30	11.38	62.70	63.80	5.81	18.62
422	9.32	9.14	60.40	13.30	6.47	18.62
423	9.34	10.48	60.40	13.30	6.44	18.85
424	9.36	13.90	98.30	-54.20	6.23	19.21
425	9.38	14.13	128.50	-60.90	6.72	19.57
426	9.40	14.04	153.20	-11.80	7.45	19.74
427	9.42	14.40	158.90	-40.90	8.30	19.89
428	9.44	13.96	188.10	-23.70	8.07	19.87
429	9.46	14.49	145.00	15.70	7.70	19.82
430	9.48	14.63	135.80	15.00	7.01	19.64
431	9.50	13.29	123.20	10.80	7.18	19.51
432	9.52	11.98	107.00	25.00	7.28	19.25

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
433	9.54	11.02	72.80	42.80	8.16	19.11
434	9.56	9.47	97.10	54.00	9.87	19.05
435	9.58	8.08	105.90	82.30	13.68	19.27
436	9.60	7.31	144.90	172.90	17.02	19.53
437	9.62	7.85	194.80	259.30	18.21	19.81
438	9.64	9.24	218.90	624.10	17.30	20.02
439	9.66	10.37	232.10	805.90	16.41	20.20
440	9.68	11.07	278.50	552.20	15.69	20.38
441	9.70	12.61	309.70	449.70	15.09	20.56
442	9.72	14.16	341.00	147.40	14.43	20.69
443	9.74	14.54	360.60	-21.80	14.09	20.80
444	9.76	15.29	385.30	-23.90	14.28	20.91
445	9.78	15.84	436.20	-47.50	14.52	21.00
446	9.80	15.82	448.30	-63.00	14.98	21.07
447	9.82	15.61	458.10	-63.70	15.29	21.10
448	9.84	15.81	474.90	-60.00	15.45	21.14
449	9.86	16.24	490.30	-58.00	15.59	21.20
450	9.88	16.72	532.90	-57.50	15.51	21.28
451	9.90	17.70	562.40	-46.40	15.31	21.36
452	9.92	18.51	578.50	-52.50	14.30	21.44
453	9.94	21.17	594.50	-54.70	13.28	21.50
454	9.96	22.50	616.50	-54.60	12.52	21.56
455	9.98	22.82	636.40	-52.50	12.53	21.58
456	10.00	22.88	673.10	-60.70	12.96	21.58
457	10.02	22.24	690.00	-56.40	13.39	21.58
458	10.04	22.33	697.50	-54.90	14.46	21.58
459	10.06	19.74	727.00	-49.20	14.47	21.58
460	10.08	23.21	741.90	-54.10	14.61	21.58
461	10.10	23.40	783.80	-47.60	14.02	21.58
462	10.12	23.48	798.60	-54.20	14.16	21.58
463	10.14	23.89	808.00	-57.30	14.19	21.58
464	10.16	24.11	825.30	-56.70	14.23	21.58
465	10.18	24.21	846.40	-58.20	14.35	21.58
466	10.20	24.21	851.00	-57.40	14.44	21.58

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	7.80	151.74	0.00	151.74	0.94	0.061	1.38	0.044	1.00	1.00	2.000	No
2	7.82	152.02	0.00	152.02	0.94	0.061	1.38	0.044	1.00	1.00	2.000	No
3	7.84	152.30	0.00	152.30	0.94	0.061	1.38	0.044	1.00	1.00	2.000	No
4	7.86	152.59	0.00	152.59	0.94	0.061	1.38	0.044	1.00	1.00	2.000	No
5	7.88	152.89	0.00	152.89	0.94	0.061	1.38	0.044	1.00	1.00	2.000	No
6	7.90	153.19	0.00	153.19	0.94	0.061	1.38	0.044	1.00	1.00	2.000	No
7	7.92	153.51	0.00	153.51	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
8	7.94	153.84	0.00	153.84	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
9	7.96	154.17	0.00	154.17	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
10	7.98	154.51	0.00	154.51	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
11	8.00	154.85	0.00	154.85	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
12	8.02	155.19	0.00	155.19	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
13	8.04	155.53	0.00	155.53	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
14	8.06	155.87	0.00	155.87	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
15	8.08	156.22	0.00	156.22	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
16	8.10	156.56	0.00	156.56	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
17	8.12	156.91	0.00	156.91	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
18	8.14	157.25	0.00	157.25	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
19	8.16	157.59	0.00	157.59	0.94	0.061	1.38	0.044	1.00	1.00	2.000	Yes
20	8.18	157.93	0.00	157.93	0.93	0.061	1.38	0.044	1.00	1.00	2.000	Yes
21	8.20	158.27	0.00	158.27	0.93	0.061	1.38	0.044	1.00	1.00	2.000	Yes
22	8.22	158.61	0.00	158.61	0.93	0.061	1.38	0.044	1.00	1.00	2.000	No
23	8.24	158.95	0.10	158.85	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
24	8.26	159.28	0.29	158.99	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
25	8.28	159.61	0.49	159.12	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
26	8.30	159.94	0.69	159.26	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
27	8.32	160.27	0.88	159.39	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
28	8.34	160.60	1.08	159.52	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
29	8.36	160.93	1.28	159.65	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
30	8.38	161.26	1.47	159.78	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
31	8.40	161.58	1.67	159.91	0.93	0.061	1.38	0.044	1.00	1.00	0.044	No
32	8.42	161.90	1.86	160.04	0.93	0.061	1.38	0.045	1.00	1.00	0.045	No
33	8.44	162.23	2.06	160.17	0.93	0.061	1.38	0.045	1.00	1.00	0.045	No
34	8.46	162.55	2.26	160.29	0.93	0.061	1.38	0.045	1.00	1.00	0.045	No
35	8.48	162.87	2.45	160.42	0.93	0.061	1.38	0.045	1.00	1.00	0.045	No
36	8.50	163.19	2.65	160.55	0.93	0.061	1.38	0.045	1.00	1.00	0.045	No
37	8.52	163.52	2.84	160.67	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
38	8.54	163.84	3.04	160.80	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
39	8.56	164.17	3.24	160.93	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
40	8.58	164.49	3.43	161.06	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
41	8.60	164.81	3.63	161.18	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
42	8.62	165.14	3.83	161.31	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
43	8.64	165.47	4.02	161.44	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
44	8.66	165.79	4.22	161.57	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
45	8.68	166.12	4.41	161.70	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
46	8.70	166.44	4.61	161.83	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
47	8.72	166.77	4.81	161.97	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
48	8.74	167.10	5.00	162.10	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	8.76	167.43	5.20	162.23	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
50	8.78	167.76	5.40	162.36	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
51	8.80	168.09	5.59	162.49	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
52	8.82	168.41	5.79	162.63	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
53	8.84	168.74	5.98	162.76	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
54	8.86	169.07	6.18	162.89	0.93	0.062	1.38	0.045	1.00	1.00	0.045	No
55	8.88	169.39	6.38	163.02	0.92	0.062	1.38	0.045	1.00	1.00	0.045	No
56	8.90	169.72	6.57	163.14	0.92	0.063	1.38	0.045	1.00	1.00	0.045	No
57	8.92	170.04	6.77	163.27	0.92	0.063	1.38	0.045	1.00	1.00	0.045	No
58	8.94	170.37	6.97	163.40	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
59	8.96	170.70	7.16	163.53	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
60	8.98	171.02	7.36	163.66	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
61	9.00	171.35	7.55	163.79	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
62	9.02	171.67	7.75	163.92	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
63	9.04	172.00	7.95	164.05	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
64	9.06	172.32	8.14	164.18	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
65	9.08	172.65	8.34	164.31	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
66	9.10	172.98	8.53	164.44	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
67	9.12	173.31	8.73	164.58	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
68	9.14	173.64	8.93	164.71	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
69	9.16	173.97	9.12	164.84	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
70	9.18	174.30	9.32	164.98	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
71	9.20	174.62	9.52	165.11	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
72	9.22	174.95	9.71	165.24	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
73	9.24	175.28	9.91	165.37	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
74	9.26	175.61	10.10	165.51	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
75	9.28	175.94	10.30	165.64	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
76	9.30	176.26	10.50	165.77	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
77	9.32	176.59	10.69	165.90	0.92	0.063	1.38	0.046	1.00	1.00	0.046	No
78	9.34	176.91	10.89	166.02	0.92	0.064	1.38	0.046	1.00	1.00	0.046	No
79	9.36	177.23	11.09	166.15	0.92	0.064	1.38	0.046	1.00	1.00	0.046	No
80	9.38	177.56	11.28	166.27	0.92	0.064	1.38	0.046	1.00	1.00	0.046	No
81	9.40	177.88	11.48	166.40	0.92	0.064	1.38	0.046	1.00	1.00	0.046	No
82	9.42	178.20	11.67	166.53	0.92	0.064	1.38	0.046	1.00	1.00	0.046	No
83	9.44	178.52	11.87	166.65	0.92	0.064	1.38	0.046	1.00	1.00	0.046	No
84	9.46	178.85	12.07	166.78	0.92	0.064	1.38	0.046	1.00	1.00	0.046	No
85	9.48	179.17	12.26	166.91	0.91	0.064	1.38	0.046	1.00	1.00	0.046	No
86	9.50	179.49	12.46	167.03	0.91	0.064	1.38	0.046	1.00	1.00	0.046	No
87	9.52	179.81	12.65	167.15	0.91	0.064	1.38	0.046	1.00	1.00	0.046	No
88	9.54	180.13	12.85	167.28	0.91	0.064	1.38	0.046	1.00	1.00	0.046	No
89	9.56	180.45	13.05	167.40	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
90	9.58	180.77	13.24	167.52	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
91	9.60	181.09	13.44	167.65	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
92	9.62	181.40	13.64	167.77	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
93	9.64	181.72	13.83	167.89	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
94	9.66	182.04	14.03	168.01	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
95	9.68	182.36	14.22	168.13	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
96	9.70	182.67	14.42	168.25	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	9.72	182.99	14.62	168.37	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
98	9.74	183.31	14.81	168.49	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
99	9.76	183.62	15.01	168.61	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
100	9.78	183.94	15.21	168.73	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
101	9.80	184.25	15.40	168.85	0.91	0.064	1.38	0.047	1.00	1.00	0.047	No
102	9.82	184.57	15.60	168.97	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
103	9.84	184.89	15.79	169.09	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
104	9.86	185.20	15.99	169.21	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
105	9.88	185.52	16.19	169.33	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
106	9.90	185.83	16.38	169.45	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
107	9.92	186.14	16.58	169.56	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
108	9.94	186.46	16.78	169.68	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
109	9.96	186.77	16.97	169.80	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
110	9.98	187.08	17.17	169.91	0.91	0.065	1.38	0.047	1.00	1.00	0.047	No
111	10.00	187.40	17.36	170.04	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
112	10.02	187.72	17.56	170.16	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
113	10.04	188.04	17.76	170.28	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
114	10.06	188.36	17.95	170.41	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
115	10.08	188.68	18.15	170.53	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
116	10.10	189.01	18.34	170.66	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
117	10.12	189.33	18.54	170.79	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
118	10.14	189.65	18.74	170.92	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
119	10.16	189.98	18.93	171.05	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
120	10.18	190.31	19.13	171.18	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
121	10.20	190.63	19.33	171.31	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
122	10.22	190.96	19.52	171.44	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
123	10.24	191.29	19.72	171.57	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
124	10.26	191.62	19.91	171.71	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
125	10.28	191.95	20.11	171.84	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
126	10.30	192.28	20.31	171.98	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
127	10.32	192.61	20.50	172.11	0.90	0.065	1.38	0.047	1.00	1.00	0.047	No
128	10.34	192.94	20.70	172.24	0.90	0.065	1.38	0.048	1.00	1.00	0.048	No
129	10.36	193.27	20.90	172.37	0.90	0.065	1.38	0.048	1.00	1.00	0.048	No
130	10.38	193.59	21.09	172.50	0.90	0.065	1.38	0.048	1.00	1.00	0.048	No
131	10.40	193.91	21.29	172.63	0.90	0.065	1.38	0.048	1.00	1.00	0.048	No
132	10.42	194.24	21.48	172.75	0.90	0.065	1.38	0.048	1.00	1.00	0.048	No
133	10.44	194.56	21.68	172.88	0.90	0.066	1.38	0.048	1.00	1.00	0.048	No
134	10.46	194.88	21.88	173.01	0.90	0.066	1.38	0.048	1.00	1.00	0.048	No
135	10.48	195.21	22.07	173.14	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
136	10.50	195.53	22.27	173.26	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
137	10.52	195.86	22.46	173.39	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
138	10.54	196.18	22.66	173.52	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
139	10.56	196.51	22.86	173.65	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
140	10.58	196.84	23.05	173.78	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
141	10.60	197.16	23.25	173.91	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
142	10.62	197.48	23.45	174.04	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
143	10.64	197.81	23.64	174.17	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
144	10.66	198.13	23.84	174.29	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	10.68	198.46	24.03	174.42	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
146	10.70	198.78	24.23	174.55	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
147	10.72	199.10	24.43	174.67	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
148	10.74	199.42	24.62	174.80	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
149	10.76	199.74	24.82	174.92	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
150	10.78	200.06	25.02	175.04	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
151	10.80	200.38	25.21	175.16	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
152	10.82	200.69	25.41	175.28	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
153	10.84	201.01	25.60	175.40	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
154	10.86	201.32	25.80	175.52	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
155	10.88	201.64	26.00	175.64	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
156	10.90	201.95	26.19	175.76	0.89	0.066	1.38	0.048	1.00	1.00	0.048	No
157	10.92	202.27	26.39	175.88	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
158	10.94	202.59	26.59	176.00	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
159	10.96	202.90	26.78	176.12	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
160	10.98	203.22	26.98	176.25	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
161	11.00	203.54	27.17	176.37	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
162	11.02	203.86	27.37	176.49	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
163	11.04	204.18	27.57	176.61	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
164	11.06	204.50	27.76	176.73	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
165	11.08	204.81	27.96	176.85	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
166	11.10	205.12	28.15	176.97	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
167	11.12	205.43	28.35	177.08	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
168	11.14	205.73	28.55	177.19	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
169	11.16	206.04	28.74	177.30	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
170	11.18	206.36	28.94	177.42	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
171	11.20	206.68	29.14	177.54	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
172	11.22	207.00	29.33	177.67	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
173	11.24	207.32	29.53	177.79	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
174	11.26	207.65	29.72	177.92	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
175	11.28	207.98	29.92	178.06	0.88	0.066	1.38	0.048	1.00	1.00	0.048	No
176	11.30	208.31	30.12	178.19	0.88	0.067	1.38	0.048	1.00	1.00	0.048	No
177	11.32	208.64	30.31	178.32	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
178	11.34	208.97	30.51	178.46	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
179	11.36	209.30	30.71	178.60	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
180	11.38	209.64	30.90	178.74	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
181	11.40	209.97	31.10	178.88	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
182	11.42	210.31	31.29	179.02	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
183	11.44	210.65	31.49	179.16	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
184	11.46	210.98	31.69	179.29	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
185	11.48	211.31	31.88	179.43	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
186	11.50	211.65	32.08	179.57	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
187	11.52	211.98	32.27	179.71	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
188	11.54	212.32	32.47	179.84	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
189	11.56	212.65	32.67	179.98	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
190	11.58	212.98	32.86	180.12	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
191	11.60	213.32	33.06	180.26	0.87	0.067	1.38	0.048	1.00	1.00	0.048	No
192	11.62	213.65	33.26	180.39	0.87	0.067	1.38	0.049	1.00	1.00	0.049	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	11.64	213.98	33.45	180.53	0.87	0.067	1.38	0.049	1.00	1.00	0.049	No
194	11.66	214.31	33.65	180.66	0.87	0.067	1.38	0.049	1.00	1.00	2.000	Yes
195	11.68	214.64	33.84	180.79	0.87	0.067	1.38	0.049	1.00	1.00	2.000	Yes
196	11.70	214.96	34.04	180.92	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
197	11.72	215.28	34.24	181.04	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
198	11.74	215.60	34.43	181.17	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
199	11.76	215.92	34.63	181.29	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
200	11.78	216.24	34.83	181.41	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
201	11.80	216.56	35.02	181.54	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
202	11.82	216.88	35.22	181.66	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
203	11.84	217.21	35.41	181.79	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
204	11.86	217.53	35.61	181.92	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
205	11.88	217.86	35.81	182.05	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
206	11.90	218.19	36.00	182.19	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
207	11.92	218.52	36.20	182.32	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
208	11.94	218.86	36.40	182.46	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
209	11.96	219.20	36.59	182.61	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
210	11.98	219.54	36.79	182.76	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
211	12.00	219.89	36.98	182.90	0.86	0.067	1.38	0.049	1.00	1.00	2.000	Yes
212	12.02	220.23	37.18	183.05	0.86	0.067	1.38	0.049	1.00	1.00	0.049	No
213	12.04	220.57	37.38	183.19	0.86	0.067	1.38	0.049	1.00	1.00	0.049	No
214	12.06	220.91	37.57	183.34	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
215	12.08	221.25	37.77	183.48	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
216	12.10	221.58	37.96	183.61	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
217	12.12	221.91	38.16	183.75	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
218	12.14	222.24	38.36	183.88	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
219	12.16	222.58	38.55	184.02	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
220	12.18	222.91	38.75	184.16	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
221	12.20	223.25	38.95	184.31	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
222	12.22	223.59	39.14	184.45	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
223	12.24	223.93	39.34	184.59	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
224	12.26	224.27	39.53	184.73	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
225	12.28	224.61	39.73	184.88	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
226	12.30	224.94	39.93	185.02	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
227	12.32	225.28	40.12	185.15	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
228	12.34	225.61	40.32	185.29	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
229	12.36	225.93	40.52	185.41	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
230	12.38	226.24	40.71	185.53	0.85	0.067	1.38	0.049	1.00	1.00	0.049	No
231	12.40	226.56	40.91	185.65	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
232	12.42	226.87	41.10	185.76	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
233	12.44	227.18	41.30	185.88	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
234	12.46	227.49	41.50	185.99	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
235	12.48	227.80	41.69	186.11	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
236	12.50	228.11	41.89	186.22	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
237	12.52	228.42	42.08	186.33	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
238	12.54	228.72	42.28	186.44	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
239	12.56	229.03	42.48	186.55	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
240	12.58	229.32	42.67	186.65	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	12.60	229.62	42.87	186.75	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
242	12.62	229.91	43.07	186.85	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
243	12.64	230.21	43.26	186.95	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
244	12.66	230.50	43.46	187.04	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
245	12.68	230.80	43.65	187.15	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
246	12.70	231.10	43.85	187.25	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
247	12.72	231.41	44.05	187.36	0.84	0.067	1.38	0.049	1.00	1.00	0.049	No
248	12.74	231.72	44.24	187.48	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
249	12.76	232.04	44.44	187.60	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
250	12.78	232.35	44.64	187.72	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
251	12.80	232.67	44.83	187.84	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
252	12.82	232.99	45.03	187.96	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
253	12.84	233.31	45.22	188.09	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
254	12.86	233.64	45.42	188.22	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
255	12.88	233.96	45.62	188.34	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
256	12.90	234.28	45.81	188.47	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
257	12.92	234.60	46.01	188.60	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
258	12.94	234.93	46.21	188.72	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
259	12.96	235.25	46.40	188.85	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
260	12.98	235.57	46.60	188.97	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
261	13.00	235.89	46.79	189.09	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
262	13.02	236.21	46.99	189.22	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
263	13.04	236.53	47.19	189.34	0.83	0.067	1.38	0.049	1.00	1.00	0.049	No
264	13.06	236.85	47.38	189.47	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
265	13.08	237.17	47.58	189.59	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
266	13.10	237.50	47.77	189.72	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
267	13.12	237.82	47.97	189.85	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
268	13.14	238.14	48.17	189.98	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
269	13.16	238.47	48.36	190.10	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
270	13.18	238.79	48.56	190.23	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
271	13.20	239.11	48.76	190.35	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
272	13.22	239.43	48.95	190.48	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
273	13.24	239.75	49.15	190.60	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
274	13.26	240.07	49.34	190.73	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
275	13.28	240.39	49.54	190.85	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
276	13.30	240.72	49.74	190.98	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
277	13.32	241.04	49.93	191.11	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
278	13.34	241.37	50.13	191.24	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
279	13.36	241.69	50.33	191.37	0.82	0.067	1.38	0.049	1.00	1.00	0.049	No
280	13.38	242.02	50.52	191.50	0.81	0.067	1.38	0.049	1.00	1.00	0.049	No
281	13.40	242.34	50.72	191.63	0.81	0.067	1.38	0.049	1.00	1.00	0.049	No
282	13.42	242.67	50.91	191.76	0.81	0.067	1.38	0.049	1.00	1.00	0.049	No
283	13.44	243.00	51.11	191.89	0.81	0.067	1.38	0.049	1.00	1.00	0.049	No
284	13.46	243.33	51.31	192.02	0.81	0.067	1.38	0.049	1.00	1.00	0.049	No
285	13.48	243.66	51.50	192.15	0.81	0.067	1.38	0.049	1.00	1.00	0.049	No
286	13.50	243.98	51.70	192.29	0.81	0.067	1.38	0.049	1.00	1.00	0.049	No
287	13.52	244.31	51.89	192.42	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes
288	13.54	244.63	52.09	192.54	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	13.56	244.95	52.29	192.66	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes
290	13.58	245.27	52.48	192.79	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes
291	13.60	245.60	52.68	192.92	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes
292	13.62	245.92	52.88	193.04	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes
293	13.64	246.24	53.07	193.17	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes
294	13.66	246.55	53.27	193.29	0.81	0.067	1.38	0.049	1.00	1.00	2.000	Yes
295	13.68	246.87	53.46	193.40	0.80	0.067	1.38	0.049	1.00	1.00	0.049	No
296	13.70	247.18	53.66	193.52	0.80	0.067	1.38	0.049	1.00	1.00	0.049	No
297	13.72	247.49	53.86	193.63	0.80	0.067	1.38	0.049	1.00	1.00	0.049	No
298	13.74	247.80	54.05	193.74	0.80	0.067	1.38	0.049	1.00	1.00	2.000	Yes
299	13.76	248.10	54.25	193.85	0.80	0.067	1.38	0.049	1.00	1.00	2.000	Yes
300	13.78	248.41	54.45	193.96	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
301	13.80	248.71	54.64	194.07	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
302	13.82	249.02	54.84	194.18	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
303	13.84	249.33	55.03	194.29	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
304	13.86	249.63	55.23	194.40	0.80	0.067	1.38	0.048	1.00	1.00	0.048	No
305	13.88	249.94	55.43	194.51	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
306	13.90	250.24	55.62	194.62	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
307	13.92	250.55	55.82	194.73	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
308	13.94	250.85	56.02	194.83	0.80	0.067	1.38	0.048	1.00	1.00	2.000	Yes
309	13.96	251.15	56.21	194.94	0.80	0.067	1.38	0.048	1.00	1.00	0.048	No
310	13.98	251.46	56.41	195.05	0.79	0.067	1.38	0.048	1.00	1.00	0.048	No
311	14.00	251.76	56.60	195.16	0.79	0.067	1.38	0.048	1.00	1.00	0.048	No
312	14.02	252.07	56.80	195.27	0.79	0.067	1.38	0.048	1.00	1.00	2.000	Yes
313	14.04	252.37	57.00	195.38	0.79	0.067	1.38	0.048	1.00	1.00	2.000	Yes
314	14.06	252.68	57.19	195.49	0.79	0.067	1.38	0.048	1.00	1.00	2.000	Yes
315	14.08	252.99	57.39	195.60	0.79	0.067	1.38	0.048	1.00	1.00	2.000	Yes
316	14.10	253.31	57.58	195.72	0.79	0.067	1.38	0.048	1.00	1.00	2.000	Yes
317	14.12	253.62	57.78	195.84	0.79	0.067	1.38	0.048	1.00	1.00	0.048	No
318	14.14	253.94	57.98	195.97	0.79	0.067	1.38	0.048	1.00	1.00	0.048	No
319	14.16	254.26	58.17	196.09	0.79	0.066	1.38	0.048	1.00	1.00	0.048	No
320	14.18	254.57	58.37	196.20	0.79	0.066	1.38	0.048	1.00	1.00	0.048	No
321	14.20	254.88	58.57	196.31	0.79	0.066	1.38	0.048	1.00	1.00	0.048	No
322	14.22	255.18	58.76	196.42	0.79	0.066	1.38	0.048	1.00	1.00	0.048	No
323	14.24	255.48	58.96	196.53	0.79	0.066	1.38	0.048	1.00	1.00	0.048	No
324	14.26	255.78	59.15	196.63	0.79	0.066	1.38	0.048	1.00	1.00	0.048	No
325	14.28	256.08	59.35	196.73	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
326	14.30	256.37	59.55	196.82	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
327	14.32	256.66	59.74	196.92	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
328	14.34	256.95	59.94	197.01	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
329	14.36	257.24	60.14	197.11	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
330	14.38	257.54	60.33	197.21	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
331	14.40	257.83	60.53	197.30	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
332	14.42	258.13	60.72	197.40	0.78	0.066	1.38	0.048	1.00	1.00	2.000	Yes
333	14.44	258.42	60.92	197.50	0.78	0.066	1.38	0.048	1.00	1.00	2.000	Yes
334	14.46	258.72	61.12	197.60	0.78	0.066	1.38	0.048	1.00	1.00	2.000	Yes
335	14.48	259.01	61.31	197.70	0.78	0.066	1.38	0.048	1.00	1.00	2.000	Yes
336	14.50	259.31	61.51	197.80	0.78	0.066	1.38	0.048	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	14.52	259.61	61.70	197.91	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
338	14.54	259.92	61.90	198.02	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
339	14.56	260.22	62.10	198.13	0.78	0.066	1.38	0.048	1.00	1.00	0.048	No
340	14.58	260.53	62.29	198.24	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
341	14.60	260.85	62.49	198.36	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
342	14.62	261.17	62.69	198.48	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
343	14.64	261.49	62.88	198.61	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
344	14.66	261.81	63.08	198.73	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
345	14.68	262.13	63.27	198.85	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
346	14.70	262.44	63.47	198.97	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
347	14.72	262.75	63.67	199.08	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
348	14.74	263.07	63.86	199.20	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
349	14.76	263.40	64.06	199.34	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
350	14.78	263.74	64.26	199.49	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
351	14.80	264.09	64.45	199.64	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
352	14.82	264.44	64.65	199.79	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
353	14.84	264.80	64.84	199.95	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
354	14.86	265.15	65.04	200.11	0.77	0.066	1.38	0.048	1.00	1.00	0.048	No
355	14.88	265.50	65.24	200.27	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
356	14.90	265.85	65.43	200.41	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
357	14.92	266.19	65.63	200.56	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
358	14.94	266.53	65.83	200.70	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
359	14.96	266.87	66.02	200.85	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
360	14.98	267.21	66.22	201.00	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
361	15.00	267.56	66.41	201.15	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
362	15.02	267.91	66.61	201.30	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
363	15.04	268.27	66.81	201.46	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
364	15.06	268.62	67.00	201.62	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
365	15.08	268.98	67.20	201.78	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
366	15.10	269.34	67.39	201.94	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
367	15.12	269.70	67.59	202.10	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
368	15.14	270.06	67.79	202.27	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
369	15.16	270.42	67.98	202.44	0.76	0.066	1.38	0.048	1.00	1.00	0.048	No
370	15.18	270.78	68.18	202.61	0.75	0.066	1.38	0.048	1.00	1.00	0.048	No
371	15.20	271.15	68.38	202.78	0.75	0.066	1.38	0.048	1.00	1.00	0.048	No
372	15.22	271.52	68.57	202.95	0.75	0.066	1.38	0.048	1.00	1.00	0.048	No
373	15.24	271.89	68.77	203.13	0.75	0.065	1.38	0.048	1.00	1.00	0.048	No
374	15.26	272.27	68.96	203.30	0.75	0.065	1.38	0.048	1.00	1.00	0.048	No
375	15.28	272.63	69.16	203.47	0.75	0.065	1.38	0.048	1.00	1.00	0.048	No
376	15.30	273.00	69.36	203.65	0.75	0.065	1.38	0.048	1.00	1.00	0.048	No
377	15.32	273.37	69.55	203.82	0.75	0.065	1.38	0.048	1.00	1.00	0.048	No
378	15.34	273.75	69.75	204.00	0.75	0.065	1.38	0.048	1.00	1.00	0.048	No
379	15.36	274.12	69.95	204.17	0.75	0.065	1.38	0.047	1.00	1.00	0.047	No
380	15.38	274.49	70.14	204.34	0.75	0.065	1.38	0.047	1.00	1.00	0.047	No
381	15.40	274.85	70.34	204.52	0.75	0.065	1.38	0.047	1.00	1.00	0.047	No
382	15.42	275.22	70.53	204.69	0.75	0.065	1.38	0.047	1.00	1.00	0.047	No
383	15.44	275.59	70.73	204.86	0.75	0.065	1.38	0.047	1.00	1.00	0.047	No
384	15.46	275.96	70.93	205.03	0.75	0.065	1.38	0.047	1.00	1.00	0.047	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	15.48	276.33	71.12	205.20	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
386	15.50	276.69	71.32	205.38	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
387	15.52	277.06	71.51	205.55	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
388	15.54	277.43	71.71	205.72	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
389	15.56	277.79	71.91	205.88	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
390	15.58	278.15	72.10	206.04	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
391	15.60	278.51	72.30	206.21	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
392	15.62	278.87	72.50	206.37	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
393	15.64	279.22	72.69	206.53	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
394	15.66	279.58	72.89	206.69	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
395	15.68	279.94	73.08	206.86	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
396	15.70	280.31	73.28	207.03	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
397	15.72	280.67	73.48	207.19	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
398	15.74	281.03	73.67	207.36	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
399	15.76	281.40	73.87	207.53	0.74	0.065	1.38	0.047	1.00	1.00	0.047	No
400	15.78	281.77	74.07	207.70	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
401	15.80	282.13	74.26	207.87	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
402	15.82	282.49	74.46	208.03	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
403	15.84	282.85	74.65	208.20	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
404	15.86	283.21	74.85	208.36	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
405	15.88	283.58	75.05	208.53	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
406	15.90	283.94	75.24	208.70	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
407	15.92	284.31	75.44	208.87	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
408	15.94	284.67	75.64	209.04	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
409	15.96	285.04	75.83	209.21	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
410	15.98	285.41	76.03	209.38	0.73	0.065	1.38	0.047	1.00	1.00	0.047	No
411	16.00	285.77	76.22	209.55	0.73	0.064	1.38	0.047	1.00	1.00	0.047	No
412	16.02	286.14	76.42	209.72	0.73	0.064	1.38	0.047	1.00	1.00	0.047	No
413	16.04	286.50	76.62	209.89	0.73	0.064	1.38	0.047	1.00	1.00	0.047	No
414	16.06	286.87	76.81	210.06	0.73	0.064	1.38	0.047	1.00	1.00	0.047	No
415	16.08	287.24	77.01	210.23	0.73	0.064	1.38	0.047	1.00	1.00	0.047	No
416	16.10	287.61	77.20	210.40	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
417	16.12	287.98	77.40	210.58	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
418	16.14	288.36	77.60	210.76	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
419	16.16	288.73	77.79	210.94	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
420	16.18	289.10	77.99	211.11	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
421	16.20	289.47	78.19	211.29	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
422	16.22	289.85	78.38	211.46	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
423	16.24	290.22	78.58	211.64	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
424	16.26	290.61	78.77	211.83	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
425	16.28	291.00	78.97	212.03	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
426	16.30	291.39	79.17	212.23	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
427	16.32	291.79	79.36	212.43	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
428	16.34	292.19	79.56	212.63	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
429	16.36	292.59	79.76	212.83	0.72	0.064	1.38	0.047	1.00	1.00	0.047	No
430	16.38	292.98	79.95	213.03	0.72	0.064	1.38	0.046	1.00	1.00	0.046	No
431	16.40	293.37	80.15	213.22	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
432	16.42	293.75	80.34	213.41	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
433	16.44	294.14	80.54	213.60	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
434	16.46	294.52	80.74	213.78	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
435	16.48	294.90	80.93	213.97	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
436	16.50	295.29	81.13	214.16	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
437	16.52	295.69	81.32	214.36	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
438	16.54	296.09	81.52	214.57	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
439	16.56	296.49	81.72	214.78	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
440	16.58	296.90	81.91	214.99	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
441	16.60	297.31	82.11	215.20	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
442	16.62	297.73	82.31	215.42	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
443	16.64	298.14	82.50	215.64	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
444	16.66	298.56	82.70	215.86	0.71	0.064	1.38	0.046	1.00	1.00	0.046	No
445	16.68	298.98	82.89	216.08	0.71	0.063	1.38	0.046	1.00	1.00	0.046	No
446	16.70	299.40	83.09	216.31	0.71	0.063	1.38	0.046	1.00	1.00	0.046	No
447	16.72	299.82	83.29	216.54	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
448	16.74	300.25	83.48	216.76	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
449	16.76	300.67	83.68	216.99	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
450	16.78	301.10	83.88	217.22	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
451	16.80	301.52	84.07	217.45	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
452	16.82	301.95	84.27	217.68	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
453	16.84	302.38	84.46	217.92	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
454	16.86	302.81	84.66	218.15	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
455	16.88	303.24	84.86	218.39	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
456	16.90	303.68	85.05	218.62	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
457	16.92	304.11	85.25	218.86	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
458	16.94	304.54	85.45	219.09	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
459	16.96	304.97	85.64	219.33	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
460	16.98	305.40	85.84	219.56	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
461	17.00	305.83	86.03	219.80	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
462	17.02	306.27	86.23	220.04	0.70	0.063	1.38	0.046	1.00	1.00	0.046	No
463	17.04	306.70	86.43	220.27	0.69	0.063	1.38	0.046	1.00	1.00	0.046	No
464	17.06	307.13	86.62	220.51	0.69	0.063	1.38	0.046	1.00	1.00	0.046	No
465	17.08	307.56	86.82	220.74	0.69	0.063	1.38	0.046	1.00	1.00	0.046	No
466	17.10	307.99	87.01	220.98	0.69	0.063	1.38	0.046	1.00	1.00	0.046	No

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	7.80	0.02	4.06	3.27	1.00	0.18	54.25	9.82	4.000	No	Yes	2.00
2	7.82	0.06	3.99	5.17	1.00	0.94	48.66	45.85	4.000	No	Yes	2.00
3	7.84	0.10	3.81	6.46	1.00	1.77	35.64	63.18	4.000	No	Yes	2.00
4	7.86	0.13	3.79	8.47	1.00	2.25	34.35	77.39	4.000	No	Yes	2.00
5	7.88	0.11	3.89	10.51	1.00	1.95	40.95	79.72	4.000	No	Yes	2.00
6	7.90	0.17	3.61	6.64	1.00	3.14	25.54	80.17	4.000	No	Yes	2.00
7	7.92	0.92	2.61	1.46	0.85	17.97	5.85	105.04	4.000	Yes	No	2.00
8	7.94	1.79	2.26	0.93	0.72	35.09	1.79	62.98	4.000	Yes	No	2.00
9	7.96	2.75	2.04	0.70	0.63	53.93	1.34	72.36	4.000	Yes	No	2.00
10	7.98	3.11	1.97	0.64	0.61	61.10	1.28	78.50	4.000	Yes	No	2.00
11	8.00	3.27	1.95	0.62	0.60	64.33	1.27	81.51	4.000	Yes	No	2.00
12	8.02	3.16	1.99	0.70	0.61	62.10	1.30	80.53	4.000	Yes	No	2.00
13	8.04	2.77	2.09	0.88	0.65	54.31	1.41	76.34	4.000	Yes	No	2.00
14	8.06	2.42	2.21	1.16	0.70	47.44	1.63	77.20	4.000	Yes	No	2.00
15	8.08	2.14	2.30	1.43	0.74	41.85	1.94	81.22	4.000	Yes	No	2.00
16	8.10	1.99	2.36	1.60	0.76	38.86	2.17	84.47	4.000	Yes	No	2.00
17	8.12	1.80	2.42	1.80	0.78	35.27	2.50	88.21	4.000	Yes	No	2.00
18	8.14	1.60	2.50	2.08	0.81	31.22	2.87	89.53	4.000	Yes	No	2.00
19	8.16	1.41	2.58	2.36	0.84	27.38	4.82	131.86	4.000	Yes	No	2.00
20	8.18	1.27	2.63	2.50	0.86	24.80	6.65	164.85	4.000	Yes	No	2.00
21	8.20	1.20	2.65	2.51	0.87	23.39	7.57	177.10	4.000	Yes	No	2.00
22	8.22	1.18	2.65	2.41	0.87	22.91	7.39	169.24	4.000	No	No	2.00
23	8.24	1.15	2.65	2.34	0.87	22.34	7.45	166.37	0.457	No	No	2.00
24	8.26	1.07	2.68	2.36	0.88	20.82	8.81	183.48	0.589	No	No	2.00
25	8.28	0.98	2.72	2.46	0.90	19.01	4.92	93.51	0.907	No	Yes	2.00
26	8.30	0.89	2.77	2.64	0.92	17.21	5.52	94.91	0.821	No	Yes	2.00
27	8.32	0.85	2.79	2.67	0.92	16.32	5.78	94.35	0.778	No	Yes	2.00
28	8.34	0.83	2.80	2.60	0.93	15.89	5.81	92.33	0.758	No	Yes	2.00
29	8.36	0.82	2.79	2.51	0.92	15.84	5.71	90.50	0.755	No	Yes	2.00
30	8.38	0.85	2.76	2.31	0.91	16.25	5.36	87.10	0.775	No	Yes	2.00
31	8.40	0.87	2.72	2.11	0.90	16.78	4.97	83.46	0.801	No	Yes	2.00
32	8.42	0.89	2.69	1.92	0.89	17.16	9.78	167.82	0.468	No	No	2.00
33	8.44	0.90	2.68	1.84	0.88	17.26	9.09	156.91	0.395	No	No	2.00
34	8.46	0.89	2.69	1.86	0.88	17.18	9.33	160.32	0.417	No	No	2.00
35	8.48	0.87	2.69	1.85	0.89	16.78	9.76	163.76	0.440	No	No	2.00
36	8.50	0.86	2.71	1.94	0.89	16.46	4.82	79.36	0.785	No	Yes	2.00
37	8.52	0.85	2.72	1.97	0.90	16.26	4.91	79.85	0.776	No	Yes	2.00
38	8.54	0.86	2.73	2.05	0.90	16.42	4.98	81.84	0.783	No	Yes	2.00
39	8.56	0.87	2.72	2.04	0.90	16.70	4.90	81.82	0.797	No	Yes	2.00
40	8.58	0.88	2.72	2.05	0.90	16.79	4.90	82.26	0.801	No	Yes	2.00
41	8.60	0.87	2.73	2.10	0.90	16.66	4.99	83.15	0.795	No	Yes	2.00
42	8.62	0.85	2.75	2.20	0.91	16.20	5.23	84.77	0.773	No	Yes	2.00
43	8.64	0.82	2.77	2.32	0.92	15.75	5.50	86.69	0.751	No	Yes	2.00
44	8.66	0.68	2.90	2.97	0.97	12.88	7.26	93.59	0.615	No	Yes	2.00
45	8.68	0.71	2.89	2.97	0.96	13.58	7.00	95.04	0.648	No	Yes	2.00
46	8.70	0.74	2.88	2.99	0.96	13.98	6.88	96.14	0.667	No	Yes	2.00
47	8.72	0.87	2.78	2.56	0.92	16.65	5.56	92.53	0.794	No	Yes	2.00
48	8.74	0.82	2.81	2.68	0.93	15.71	5.96	93.67	0.749	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	8.76	0.79	2.83	2.76	0.94	15.10	6.23	94.15	0.720	No	Yes	2.00
50	8.78	0.77	2.84	2.81	0.95	14.71	6.41	94.27	0.702	No	Yes	2.00
51	8.80	0.74	2.87	2.95	0.96	14.12	6.78	95.75	0.673	No	Yes	2.00
52	8.82	0.71	2.90	3.12	0.97	13.45	7.23	97.26	0.642	No	Yes	2.00
53	8.84	0.68	2.93	3.24	0.98	12.75	7.65	97.54	0.608	No	Yes	2.00
54	8.86	0.66	2.93	3.20	0.98	12.49	7.72	96.45	0.596	No	Yes	2.00
55	8.88	0.66	2.94	3.22	0.98	12.34	7.81	96.36	0.589	No	Yes	2.00
56	8.90	0.66	2.93	3.14	0.98	12.45	7.66	95.37	0.594	No	Yes	2.00
57	8.92	0.67	2.93	3.17	0.98	12.58	7.65	96.22	0.600	No	Yes	2.00
58	8.94	0.68	2.92	3.11	0.97	12.87	7.45	95.82	0.614	No	Yes	2.00
59	8.96	0.70	2.91	3.10	0.97	13.12	7.34	96.22	0.626	No	Yes	2.00
60	8.98	0.70	2.89	2.97	0.97	13.27	7.12	94.50	0.633	No	Yes	2.00
61	9.00	0.70	2.89	2.92	0.97	13.23	7.07	93.59	0.631	No	Yes	2.00
62	9.02	0.69	2.91	3.00	0.97	12.93	7.29	94.25	0.617	No	Yes	2.00
63	9.04	0.66	2.93	3.19	0.98	12.44	7.73	96.12	0.593	No	Yes	2.00
64	9.06	0.64	2.97	3.42	0.99	11.93	8.24	98.38	0.569	No	Yes	2.00
65	9.08	0.63	2.99	3.63	1.00	11.69	8.61	100.66	0.558	No	Yes	2.00
66	9.10	0.65	2.97	3.62	1.00	12.17	8.37	101.78	0.580	No	Yes	2.00
67	9.12	0.69	2.94	3.46	0.98	13.01	7.81	101.65	0.621	No	Yes	2.00
68	9.14	0.74	2.90	3.24	0.97	13.93	7.19	100.14	0.664	No	Yes	2.00
69	9.16	0.77	2.87	3.07	0.96	14.42	6.82	98.38	0.688	No	Yes	2.00
70	9.18	0.78	2.86	3.02	0.96	14.63	6.69	97.87	0.698	No	Yes	2.00
71	9.20	0.78	2.87	3.04	0.96	14.61	6.73	98.29	0.697	No	Yes	2.00
72	9.22	0.76	2.88	3.11	0.96	14.28	6.91	98.70	0.681	No	Yes	2.00
73	9.24	0.75	2.88	3.09	0.96	14.04	6.98	98.01	0.670	No	Yes	2.00
74	9.26	0.75	2.88	2.99	0.96	14.00	6.87	96.26	0.668	No	Yes	2.00
75	9.28	0.76	2.85	2.79	0.95	14.36	6.51	93.49	0.685	No	Yes	2.00
76	9.30	0.78	2.82	2.58	0.94	14.70	6.14	90.22	0.701	No	Yes	2.00
77	9.32	0.77	2.82	2.47	0.94	14.54	6.04	87.89	0.694	No	Yes	2.00
78	9.34	0.75	2.83	2.46	0.94	13.98	6.21	86.77	0.667	No	Yes	2.00
79	9.36	0.70	2.86	2.58	0.96	13.05	6.69	87.37	0.623	No	Yes	2.00
80	9.38	0.66	2.90	2.74	0.97	12.28	7.22	88.65	0.586	No	Yes	2.00
81	9.40	0.62	2.95	3.01	0.99	11.52	7.92	91.25	0.550	No	Yes	2.00
82	9.42	0.59	2.99	3.29	1.00	10.93	8.59	93.88	0.521	No	Yes	2.00
83	9.44	0.59	3.00	3.39	1.00	10.84	8.77	95.02	0.517	No	Yes	2.00
84	9.46	0.61	2.97	3.23	1.00	11.24	8.35	93.82	0.536	No	Yes	2.00
85	9.48	0.64	2.93	2.95	0.98	11.86	7.68	91.06	0.566	No	Yes	2.00
86	9.50	0.66	2.89	2.66	0.97	12.26	7.12	87.35	0.585	No	Yes	2.00
87	9.52	0.68	2.87	2.47	0.96	12.59	6.73	84.68	0.600	No	Yes	2.00
88	9.54	0.70	2.83	2.26	0.94	13.04	6.27	81.73	0.622	No	Yes	2.00
89	9.56	0.72	2.82	2.20	0.94	13.36	6.07	81.03	0.637	No	Yes	2.00
90	9.58	0.72	2.81	2.18	0.94	13.39	6.03	80.69	0.639	No	Yes	2.00
91	9.60	0.71	2.82	2.21	0.94	13.12	6.17	80.95	0.626	No	Yes	2.00
92	9.62	0.69	2.83	2.20	0.94	12.83	6.26	80.31	0.612	No	Yes	2.00
93	9.64	0.68	2.84	2.21	0.95	12.49	6.41	80.02	0.596	No	Yes	2.00
94	9.66	0.66	2.85	2.24	0.95	12.23	6.54	80.06	0.584	No	Yes	2.00
95	9.68	0.66	2.85	2.22	0.95	12.20	6.53	79.64	0.582	No	Yes	2.00
96	9.70	0.68	2.84	2.14	0.95	12.48	6.31	78.78	0.596	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	9.72	0.69	2.82	2.07	0.94	12.72	6.11	77.72	0.607	No	Yes	2.00
98	9.74	0.69	2.82	2.06	0.94	12.80	6.06	77.60	0.610	No	Yes	2.00
99	9.76	0.68	2.83	2.10	0.94	12.54	6.22	78.02	0.598	No	Yes	2.00
100	9.78	0.67	2.84	2.15	0.95	12.33	6.38	78.64	0.588	No	Yes	2.00
101	9.80	0.66	2.85	2.17	0.95	12.16	6.47	78.73	0.580	No	Yes	2.00
102	9.82	0.65	2.85	2.16	0.95	12.00	6.53	78.40	0.573	No	Yes	2.00
103	9.84	0.64	2.87	2.21	0.96	11.68	6.74	78.72	0.557	No	Yes	2.00
104	9.86	0.61	2.90	2.35	0.97	11.18	7.17	80.12	0.533	No	Yes	2.00
105	9.88	0.49	3.05	3.08	1.00	8.85	9.61	85.05	0.422	No	Yes	2.00
106	9.90	0.47	3.08	3.22	1.00	8.36	10.20	85.23	0.399	No	Yes	2.00
107	9.92	0.45	3.10	3.27	1.00	7.92	10.65	84.36	0.378	No	Yes	2.00
108	9.94	0.51	3.00	2.68	1.00	9.19	8.78	80.69	0.438	No	Yes	2.00
109	9.96	0.49	3.04	2.87	1.00	8.70	9.42	81.97	0.415	No	Yes	2.00
110	9.98	0.48	3.07	3.19	1.00	8.44	10.08	85.12	0.403	No	Yes	2.00
111	10.00	0.49	3.08	3.43	1.00	8.64	10.27	88.76	0.412	No	Yes	2.00
112	10.02	0.52	3.06	3.49	1.00	9.32	9.84	91.69	0.444	No	Yes	2.00
113	10.04	0.57	3.02	3.34	1.00	10.21	9.06	92.57	0.487	No	Yes	2.00
114	10.06	0.60	2.98	3.17	1.00	10.95	8.42	92.23	0.522	No	Yes	2.00
115	10.08	0.62	2.96	3.08	0.99	11.31	8.11	91.75	0.540	No	Yes	2.00
116	10.10	0.64	2.95	3.03	0.99	11.59	7.92	91.75	0.553	No	Yes	2.00
117	10.12	0.67	2.92	2.93	0.98	12.15	7.53	91.44	0.580	No	Yes	2.00
118	10.14	0.71	2.88	2.77	0.96	13.12	6.93	90.87	0.626	No	Yes	2.00
119	10.16	0.80	2.81	2.51	0.94	14.80	6.02	89.04	0.706	No	Yes	2.00
120	10.18	0.88	2.76	2.32	0.92	16.42	5.33	87.48	0.783	No	Yes	2.00
121	10.20	0.96	2.71	2.18	0.90	17.88	4.81	86.10	0.853	No	Yes	2.00
122	10.22	0.98	2.71	2.21	0.90	18.26	4.78	87.23	0.871	No	Yes	2.00
123	10.24	0.97	2.72	2.32	0.90	18.07	4.94	89.28	0.862	No	Yes	2.00
124	10.26	0.93	2.75	2.47	0.92	17.31	5.29	91.57	0.826	No	Yes	2.00
125	10.28	0.90	2.77	2.57	0.92	16.80	5.54	92.99	0.801	No	Yes	2.00
126	10.30	0.91	2.77	2.55	0.92	16.92	5.48	92.70	0.807	No	Yes	2.00
127	10.32	0.95	2.73	2.33	0.91	17.70	5.03	89.11	0.844	No	Yes	2.00
128	10.34	1.00	2.68	2.06	0.89	18.67	9.05	169.05	0.476	No	No	2.00
129	10.36	1.04	2.64	1.82	0.87	19.43	6.83	132.70	0.268	No	No	2.00
130	10.38	1.05	2.61	1.68	0.86	19.74	5.79	114.28	0.197	No	No	2.00
131	10.40	1.05	2.60	1.59	0.86	19.56	5.46	106.76	0.174	No	No	2.00
132	10.42	1.02	2.61	1.56	0.86	19.07	5.60	106.79	0.174	No	No	2.00
133	10.44	1.00	2.62	1.63	0.87	18.65	6.33	118.02	0.210	No	No	2.00
134	10.46	0.99	2.64	1.70	0.87	18.50	6.89	127.53	0.246	No	No	2.00
135	10.48	1.00	2.65	1.77	0.88	18.59	7.25	134.72	0.277	No	No	2.00
136	10.50	1.02	2.64	1.79	0.87	18.98	7.01	132.97	0.269	No	No	2.00
137	10.52	1.03	2.64	1.80	0.87	19.21	6.87	131.91	0.264	No	No	2.00
138	10.54	1.04	2.63	1.78	0.87	19.44	6.61	128.40	0.249	No	No	2.00
139	10.56	1.03	2.63	1.77	0.87	19.25	6.67	128.48	0.250	No	No	2.00
140	10.58	1.02	2.63	1.75	0.87	19.09	6.69	127.77	0.247	No	No	2.00
141	10.60	0.99	2.65	1.78	0.88	18.43	7.44	137.16	0.288	No	No	2.00
142	10.62	0.95	2.68	1.88	0.89	17.58	8.96	157.51	0.399	No	No	2.00
143	10.64	0.88	2.73	2.06	0.91	16.22	5.05	81.92	0.774	No	Yes	2.00
144	10.66	0.81	2.79	2.31	0.93	14.92	5.72	85.37	0.712	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	10.68	0.75	2.84	2.55	0.95	13.68	6.43	87.98	0.652	No	Yes	2.00
146	10.70	0.71	2.88	2.70	0.97	12.87	6.93	89.15	0.614	No	Yes	2.00
147	10.72	0.70	2.88	2.67	0.97	12.65	6.98	88.30	0.603	No	Yes	2.00
148	10.74	0.71	2.86	2.47	0.96	12.91	6.61	85.31	0.616	No	Yes	2.00
149	10.76	0.73	2.83	2.26	0.95	13.25	6.20	82.13	0.632	No	Yes	2.00
150	10.78	0.74	2.79	2.03	0.93	13.48	5.78	77.92	0.643	No	Yes	2.00
151	10.80	0.75	2.77	1.88	0.93	13.62	5.52	75.18	0.650	No	Yes	2.00
152	10.82	0.77	2.74	1.70	0.91	14.06	5.11	71.90	0.671	No	Yes	2.00
153	10.84	0.80	2.71	1.60	0.90	14.54	4.82	70.14	0.694	No	Yes	2.00
154	10.86	0.82	2.69	1.52	0.89	14.97	9.53	142.63	0.315	No	No	2.00
155	10.88	0.84	2.68	1.49	0.89	15.32	8.80	134.87	0.277	No	No	2.00
156	10.90	0.85	2.68	1.53	0.89	15.56	8.75	136.20	0.283	No	No	2.00
157	10.92	0.86	2.68	1.59	0.89	15.68	9.08	142.44	0.314	No	No	2.00
158	10.94	0.84	2.70	1.70	0.90	15.39	4.75	73.12	0.734	No	Yes	2.00
159	10.96	0.82	2.74	1.84	0.91	14.87	5.09	75.65	0.709	No	Yes	2.00
160	10.98	0.79	2.77	1.99	0.92	14.30	5.47	78.17	0.682	No	Yes	2.00
161	11.00	0.77	2.79	2.04	0.93	13.90	5.67	78.83	0.663	No	Yes	2.00
162	11.02	0.76	2.79	2.01	0.93	13.75	5.67	78.04	0.656	No	Yes	2.00
163	11.04	0.76	2.78	1.92	0.93	13.69	5.56	76.05	0.653	No	Yes	2.00
164	11.06	0.77	2.75	1.79	0.92	13.96	5.28	73.76	0.666	No	Yes	2.00
165	11.08	0.79	2.72	1.66	0.91	14.34	4.97	71.27	0.684	No	Yes	2.00
166	11.10	0.72	2.76	1.58	0.92	12.83	5.31	68.17	0.612	No	Yes	2.00
167	11.12	0.63	2.81	1.56	0.94	11.04	5.95	65.70	0.526	No	Yes	2.00
168	11.14	0.66	2.77	1.45	0.93	11.79	5.47	64.43	0.562	No	Yes	2.00
169	11.16	0.80	2.68	1.37	0.89	14.47	8.90	128.77	0.251	No	No	2.00
170	11.18	0.94	2.61	1.31	0.86	17.15	5.61	96.13	0.146	No	No	2.00
171	11.20	0.93	2.63	1.46	0.87	17.12	6.54	112.01	0.190	No	No	2.00
172	11.22	0.98	2.63	1.57	0.87	17.94	6.57	117.88	0.209	No	No	2.00
173	11.24	1.06	2.61	1.63	0.86	19.65	5.59	109.81	0.183	No	No	2.00
174	11.26	1.17	2.56	1.55	0.85	21.69	4.11	89.14	0.146	No	No	2.00
175	11.28	1.20	2.56	1.60	0.84	22.28	4.07	90.64	0.149	No	No	2.00
176	11.30	1.18	2.58	1.74	0.85	21.96	4.81	105.58	0.189	No	No	2.00
177	11.32	1.15	2.62	1.94	0.87	21.30	6.11	130.23	0.257	No	No	2.00
178	11.34	1.13	2.65	2.11	0.88	20.91	7.32	153.12	0.372	No	No	2.00
179	11.36	1.10	2.68	2.34	0.89	20.26	9.21	186.57	0.616	No	No	2.00
180	11.38	1.06	2.72	2.62	0.91	19.60	4.97	97.50	0.935	No	Yes	2.00
181	11.40	1.03	2.76	2.90	0.92	18.93	5.42	102.50	0.903	No	Yes	2.00
182	11.42	1.01	2.78	3.00	0.93	18.56	5.60	103.92	0.885	No	Yes	2.00
183	11.44	1.02	2.76	2.84	0.92	18.72	5.40	101.02	0.893	No	Yes	2.00
184	11.46	1.06	2.73	2.61	0.91	19.43	4.99	97.06	0.927	No	Yes	2.00
185	11.48	1.11	2.68	2.34	0.89	20.57	8.93	183.65	0.590	No	No	2.00
186	11.50	1.15	2.66	2.23	0.88	21.20	7.73	163.82	0.440	No	No	2.00
187	11.52	1.16	2.64	2.14	0.88	21.49	7.03	150.97	0.360	No	No	2.00
188	11.54	1.13	2.66	2.23	0.89	20.90	7.97	166.44	0.458	No	No	2.00
189	11.56	1.09	2.69	2.38	0.90	20.01	9.74	194.88	0.691	No	No	2.00
190	11.58	1.03	2.73	2.57	0.91	18.91	5.06	95.62	0.902	No	Yes	2.00
191	11.60	0.98	2.76	2.70	0.93	17.94	5.42	97.20	0.856	No	Yes	2.00
192	11.62	0.93	2.79	2.79	0.94	16.98	5.75	97.65	0.810	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	11.64	0.90	2.80	2.77	0.94	16.29	5.90	96.10	0.777	No	Yes	2.00
194	11.66	0.88	2.80	2.66	0.94	15.91	5.87	93.41	4.000	Yes	Yes	2.00
195	11.68	0.88	2.78	2.42	0.93	15.86	5.60	88.82	4.000	Yes	Yes	2.00
196	11.70	0.89	2.74	2.10	0.92	16.07	5.14	82.60	4.000	Yes	Yes	2.00
197	11.72	0.91	2.70	1.82	0.90	16.44	9.97	163.93	4.000	Yes	No	2.00
198	11.74	0.94	2.65	1.58	0.88	17.11	7.38	126.36	4.000	Yes	No	2.00
199	11.76	0.98	2.62	1.46	0.87	17.85	5.97	106.58	4.000	Yes	No	2.00
200	11.78	1.06	2.57	1.36	0.85	19.09	4.59	87.65	4.000	Yes	No	2.00
201	11.80	1.13	2.54	1.27	0.84	20.19	3.61	72.89	4.000	Yes	No	2.00
202	11.82	1.18	2.52	1.28	0.84	21.00	3.31	69.51	4.000	Yes	No	2.00
203	11.84	1.17	2.55	1.41	0.84	20.93	3.88	81.14	4.000	Yes	No	2.00
204	11.86	1.14	2.59	1.64	0.86	20.56	5.07	104.26	4.000	Yes	No	2.00
205	11.88	1.14	2.61	1.80	0.87	20.61	5.85	120.54	4.000	Yes	No	2.00
206	11.90	1.13	2.63	1.96	0.88	20.59	6.71	138.20	4.000	Yes	No	2.00
207	11.92	1.11	2.67	2.20	0.89	20.28	8.35	169.31	4.000	Yes	No	2.00
208	11.94	1.05	2.76	2.87	0.92	19.10	5.35	102.19	4.000	Yes	Yes	2.00
209	11.96	0.99	2.84	3.62	0.96	18.03	6.36	114.75	4.000	Yes	Yes	2.00
210	11.98	0.95	2.90	4.32	0.98	17.20	7.27	125.09	4.000	Yes	Yes	2.00
211	12.00	0.92	2.94	4.62	0.99	16.53	7.76	128.21	4.000	Yes	Yes	2.00
212	12.02	0.89	2.96	4.76	1.00	15.96	8.07	128.75	0.761	No	Yes	2.00
213	12.04	0.87	2.96	4.72	1.00	15.57	8.16	127.00	0.743	No	Yes	2.00
214	12.06	0.84	2.95	4.37	1.00	15.02	8.01	120.39	0.716	No	Yes	2.00
215	12.08	0.81	2.94	3.94	0.99	14.46	7.78	112.45	0.690	No	Yes	2.00
216	12.10	0.85	2.87	3.23	0.97	15.09	6.79	102.40	0.720	No	Yes	2.00
217	12.12	0.94	2.79	2.71	0.94	16.85	5.68	95.75	0.804	No	Yes	2.00
218	12.14	1.09	2.69	2.23	0.90	19.45	9.33	181.51	0.573	No	No	2.00
219	12.16	1.19	2.65	2.18	0.88	21.09	7.56	159.43	0.411	No	No	2.00
220	12.18	1.22	2.67	2.42	0.89	21.58	8.47	182.87	0.584	No	No	2.00
221	12.20	1.15	2.74	2.91	0.92	20.64	5.09	105.02	0.984	No	Yes	2.00
222	12.22	1.02	2.82	3.42	0.95	18.43	6.07	111.85	0.879	No	Yes	2.00
223	12.24	0.89	2.90	3.92	0.98	15.94	7.25	115.59	0.760	No	Yes	2.00
224	12.26	0.75	3.02	4.76	1.00	13.17	9.15	120.43	0.628	No	Yes	2.00
225	12.28	0.64	3.15	6.16	1.00	10.96	11.71	128.32	0.523	No	Yes	2.00
226	12.30	0.56	3.27	7.66	1.00	9.37	14.32	134.18	0.447	No	Yes	2.00
227	12.32	0.43	3.43	9.50	1.00	6.84	19.02	130.07	0.326	No	Yes	2.00
228	12.34	0.39	3.45	8.67	1.00	6.04	19.56	118.13	0.288	No	Yes	2.00
229	12.36	0.36	3.43	7.08	1.00	5.39	19.07	102.76	0.257	No	Yes	2.00
230	12.38	0.42	3.27	4.85	1.00	6.52	14.38	93.71	0.311	No	Yes	2.00
231	12.40	0.43	3.22	4.17	1.00	6.67	13.26	88.47	0.318	No	Yes	2.00
232	12.42	0.42	3.21	3.87	1.00	6.53	13.01	84.94	0.311	No	Yes	2.00
233	12.44	0.40	3.24	3.92	1.00	6.17	13.56	83.72	0.295	No	Yes	2.00
234	12.46	0.38	3.28	4.26	1.00	5.75	14.69	84.47	0.274	No	Yes	2.00
235	12.48	0.36	3.33	4.68	1.00	5.37	15.96	85.71	0.256	No	Yes	2.00
236	12.50	0.34	3.37	5.03	1.00	5.02	17.14	86.12	0.240	No	Yes	2.00
237	12.52	0.33	3.40	5.14	1.00	4.72	17.97	84.85	0.225	No	Yes	2.00
238	12.54	0.32	3.40	4.78	1.00	4.50	17.97	80.77	0.214	No	Yes	2.00
239	12.56	0.31	3.38	4.24	1.00	4.35	17.45	75.91	0.208	No	Yes	2.00
240	12.58	0.31	3.35	3.62	1.00	4.25	16.61	70.66	0.203	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	12.60	0.31	3.33	3.22	1.00	4.25	15.87	67.43	0.203	No	Yes	2.00
242	12.62	0.32	3.26	2.74	1.00	4.54	14.28	64.90	0.217	No	Yes	2.00
243	12.64	0.35	3.18	2.32	1.00	5.16	12.31	63.48	0.246	No	Yes	2.00
244	12.66	0.41	3.08	2.03	1.00	6.16	10.31	63.54	0.294	No	Yes	2.00
245	12.68	0.48	2.98	1.76	1.00	7.56	8.40	63.51	0.360	No	Yes	2.00
246	12.70	0.57	2.88	1.59	0.97	9.14	6.98	63.77	0.436	No	Yes	2.00
247	12.72	0.67	2.81	1.52	0.95	10.88	5.95	64.75	0.519	No	Yes	2.00
248	12.74	0.76	2.77	1.55	0.93	12.24	5.47	67.00	0.584	No	Yes	2.00
249	12.76	0.81	2.75	1.61	0.92	13.19	5.25	69.21	0.629	No	Yes	2.00
250	12.78	0.84	2.75	1.71	0.92	13.63	5.26	71.69	0.650	No	Yes	2.00
251	12.80	0.85	2.76	1.79	0.93	13.86	5.32	73.70	0.661	No	Yes	2.00
252	12.82	0.85	2.77	1.93	0.93	13.92	5.51	76.64	0.664	No	Yes	2.00
253	12.84	0.86	2.78	2.04	0.94	13.95	5.65	78.81	0.665	No	Yes	2.00
254	12.86	0.86	2.79	2.14	0.94	13.96	5.78	80.71	0.666	No	Yes	2.00
255	12.88	0.86	2.79	2.13	0.94	14.02	5.75	80.57	0.669	No	Yes	2.00
256	12.90	0.86	2.80	2.15	0.94	13.97	5.79	80.93	0.666	No	Yes	2.00
257	12.92	0.85	2.80	2.15	0.94	13.81	5.85	80.81	0.659	No	Yes	2.00
258	12.94	0.85	2.80	2.11	0.94	13.73	5.82	79.91	0.655	No	Yes	2.00
259	12.96	0.86	2.78	1.95	0.93	13.83	5.56	76.85	0.660	No	Yes	2.00
260	12.98	0.89	2.74	1.76	0.92	14.24	5.16	73.41	0.679	No	Yes	2.00
261	13.00	0.92	2.72	1.65	0.91	14.61	4.88	71.27	0.697	No	Yes	2.00
262	13.02	0.94	2.71	1.62	0.91	14.85	4.77	70.82	0.708	No	Yes	2.00
263	13.04	0.94	2.72	1.70	0.91	14.90	4.88	72.67	0.711	No	Yes	2.00
264	13.06	0.93	2.74	1.83	0.92	14.67	5.13	75.32	0.700	No	Yes	2.00
265	13.08	0.92	2.76	1.96	0.93	14.64	5.33	78.06	0.698	No	Yes	2.00
266	13.10	0.94	2.75	1.98	0.93	14.87	5.29	78.72	0.709	No	Yes	2.00
267	13.12	0.99	2.73	1.89	0.92	15.57	4.98	77.47	0.742	No	Yes	2.00
268	13.14	1.01	2.70	1.79	0.91	15.91	4.75	75.57	0.759	No	Yes	2.00
269	13.16	1.01	2.70	1.71	0.90	15.78	9.96	157.20	0.397	No	No	2.00
270	13.18	0.98	2.70	1.67	0.91	15.31	4.73	72.38	0.730	No	Yes	2.00
271	13.20	0.96	2.70	1.62	0.91	14.96	4.74	70.99	0.714	No	Yes	2.00
272	13.22	0.95	2.71	1.65	0.91	14.72	4.85	71.37	0.702	No	Yes	2.00
273	13.24	0.94	2.73	1.74	0.92	14.49	5.06	73.29	0.691	No	Yes	2.00
274	13.26	0.92	2.76	1.91	0.93	14.19	5.38	76.41	0.677	No	Yes	2.00
275	13.28	0.90	2.78	2.02	0.94	14.00	5.60	78.38	0.668	No	Yes	2.00
276	13.30	0.90	2.79	2.10	0.94	13.93	5.74	79.92	0.665	No	Yes	2.00
277	13.32	0.91	2.79	2.09	0.94	14.04	5.69	79.94	0.670	No	Yes	2.00
278	13.34	0.93	2.78	2.07	0.94	14.33	5.58	79.93	0.684	No	Yes	2.00
279	13.36	0.96	2.76	2.00	0.93	14.74	5.36	79.00	0.703	No	Yes	2.00
280	13.38	0.99	2.74	1.95	0.92	15.22	5.15	78.43	0.726	No	Yes	2.00
281	13.40	1.08	2.69	1.81	0.90	16.47	9.86	162.33	0.430	No	No	2.00
282	13.42	1.16	2.65	1.72	0.89	17.74	7.67	136.16	0.283	No	No	2.00
283	13.44	1.24	2.62	1.62	0.88	18.74	6.22	116.62	0.205	No	No	2.00
284	13.46	1.21	2.64	1.67	0.88	18.27	6.88	125.79	0.239	No	No	2.00
285	13.48	1.13	2.69	1.86	0.90	17.20	9.28	159.70	0.413	No	No	2.00
286	13.50	1.06	2.72	1.95	0.91	16.12	4.92	79.26	0.769	No	Yes	2.00
287	13.52	1.05	2.71	1.85	0.91	15.90	4.83	76.85	4.000	Yes	Yes	2.00
288	13.54	1.15	2.61	1.32	0.87	17.06	5.72	97.56	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	13.56	1.23	2.55	1.15	0.85	18.14	4.03	73.17	4.000	Yes	No	2.00
290	13.58	1.29	2.53	1.11	0.84	18.96	3.43	65.10	4.000	Yes	No	2.00
291	13.60	1.27	2.57	1.29	0.86	18.70	4.46	83.31	4.000	Yes	No	2.00
292	13.62	1.18	2.61	1.37	0.87	17.39	5.78	100.58	4.000	Yes	No	2.00
293	13.64	1.06	2.65	1.40	0.89	15.63	7.66	119.75	4.000	Yes	No	2.00
294	13.66	0.95	2.69	1.37	0.90	13.94	9.68	134.93	4.000	Yes	No	2.00
295	13.68	0.93	2.69	1.26	0.90	13.55	9.33	126.43	0.241	No	No	2.00
296	13.70	0.93	2.67	1.17	0.90	13.47	8.52	114.77	0.199	No	No	2.00
297	13.72	0.93	2.66	1.08	0.89	13.35	7.82	104.40	0.167	No	No	2.00
298	13.74	0.93	2.64	0.98	0.88	13.32	6.98	92.89	4.000	Yes	No	2.00
299	13.76	0.95	2.61	0.89	0.87	13.56	5.93	80.37	4.000	Yes	No	2.00
300	13.78	1.01	2.58	0.83	0.86	14.27	4.76	67.88	4.000	Yes	No	2.00
301	13.80	1.07	2.55	0.77	0.85	15.09	3.79	57.13	4.000	Yes	No	2.00
302	13.82	1.13	2.51	0.72	0.83	16.01	2.98	47.76	4.000	Yes	No	2.00
303	13.84	1.17	2.49	0.69	0.83	16.53	2.89	47.80	4.000	Yes	No	2.00
304	13.86	1.19	2.47	0.65	0.82	16.70	2.80	46.81	0.089	No	No	1.84
305	13.88	1.16	2.48	0.63	0.82	16.28	2.83	46.05	4.000	Yes	No	2.00
306	13.90	1.11	2.50	0.66	0.83	15.57	2.86	44.52	4.000	Yes	No	2.00
307	13.92	1.04	2.55	0.73	0.85	14.53	3.90	56.64	4.000	Yes	No	2.00
308	13.94	0.98	2.59	0.80	0.87	13.71	5.05	69.18	4.000	Yes	No	2.00
309	13.96	0.96	2.60	0.82	0.87	13.44	5.44	73.16	0.105	No	No	2.00
310	13.98	0.99	2.58	0.77	0.86	13.79	4.74	65.35	0.106	No	No	2.00
311	14.00	1.03	2.55	0.72	0.85	14.25	4.02	57.33	0.098	No	No	2.00
312	14.02	1.04	2.55	0.73	0.85	14.38	3.98	57.22	4.000	Yes	No	2.00
313	14.04	1.02	2.59	0.83	0.86	14.09	4.93	69.51	4.000	Yes	No	2.00
314	14.06	0.98	2.64	1.00	0.88	13.59	6.78	92.15	4.000	Yes	No	2.00
315	14.08	0.96	2.67	1.14	0.90	13.42	8.35	112.07	4.000	Yes	No	2.00
316	14.10	0.97	2.69	1.29	0.91	13.53	9.61	130.06	4.000	Yes	No	2.00
317	14.12	0.98	2.70	1.40	0.91	13.68	4.75	65.03	0.652	No	Yes	2.00
318	14.14	0.95	2.74	1.55	0.92	13.37	5.10	68.16	0.638	No	Yes	2.00
319	14.16	0.90	2.76	1.56	0.93	12.58	5.36	67.49	0.600	No	Yes	2.00
320	14.18	0.83	2.78	1.50	0.94	11.53	5.65	65.21	0.550	No	Yes	2.00
321	14.20	0.78	2.79	1.31	0.94	10.59	5.70	60.31	0.505	No	Yes	2.00
322	14.22	0.73	2.79	1.20	0.94	9.92	5.78	57.32	0.473	No	Yes	2.00
323	14.24	0.71	2.79	1.11	0.94	9.52	5.78	55.03	0.454	No	Yes	2.00
324	14.26	0.69	2.80	1.04	0.95	9.16	5.80	53.12	0.437	No	Yes	2.00
325	14.28	0.68	2.79	0.95	0.94	8.90	5.74	51.04	0.425	No	Yes	2.00
326	14.30	0.67	2.78	0.87	0.94	8.78	5.60	49.18	0.419	No	Yes	2.00
327	14.32	0.67	2.77	0.83	0.94	8.75	5.51	48.22	0.417	No	Yes	2.00
328	14.34	0.67	2.76	0.80	0.93	8.77	5.43	47.60	0.418	No	Yes	2.00
329	14.36	0.68	2.77	0.83	0.94	8.86	5.46	48.42	0.423	No	Yes	2.00
330	14.38	0.69	2.77	0.85	0.93	9.00	5.45	49.00	0.429	No	Yes	2.00
331	14.40	0.69	2.77	0.87	0.94	9.03	5.47	49.45	0.431	No	Yes	2.00
332	14.42	0.70	2.76	0.87	0.93	9.12	5.42	49.41	4.000	Yes	Yes	2.00
333	14.44	0.79	2.69	0.74	0.90	10.37	9.28	96.22	4.000	Yes	No	2.00
334	14.46	1.01	2.53	0.53	0.84	13.39	3.36	44.95	4.000	Yes	No	2.00
335	14.48	1.30	2.38	0.39	0.79	17.20	2.26	38.79	4.000	Yes	No	2.00
336	14.50	1.51	2.30	0.35	0.76	19.91	1.00	19.91	4.000	Yes	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	14.52	1.58	2.29	0.37	0.75	20.76	1.00	20.76	0.067	No	No	1.40
338	14.54	1.70	2.25	0.35	0.74	22.39	1.00	22.39	0.069	No	No	1.43
339	14.56	1.94	2.19	0.32	0.72	25.37	1.00	25.37	0.071	No	No	1.48
340	14.58	2.29	2.12	0.32	0.69	29.86	1.00	29.86	0.075	No	No	1.56
341	14.60	2.63	2.07	0.33	0.67	34.23	1.00	34.23	0.079	No	No	1.63
342	14.62	2.99	2.03	0.34	0.65	38.67	1.00	38.67	0.082	No	No	1.71
343	14.64	3.28	1.98	0.32	0.64	42.19	1.00	42.19	0.085	No	No	1.77
344	14.66	3.35	1.96	0.29	0.63	42.98	1.00	42.98	0.086	No	No	1.79
345	14.68	3.19	1.96	0.25	0.63	40.69	1.00	40.69	0.084	No	No	1.75
346	14.70	2.85	2.00	0.23	0.64	36.48	1.00	36.48	0.080	No	No	1.67
347	14.72	2.52	2.07	0.27	0.67	32.39	1.00	32.39	0.077	No	No	1.60
348	14.74	2.27	2.18	0.43	0.71	29.50	1.00	29.50	0.075	No	No	1.55
349	14.76	2.18	2.33	0.93	0.77	29.06	2.05	59.62	0.100	No	No	2.00
350	14.78	2.59	2.30	1.08	0.76	34.65	1.93	66.75	0.108	No	No	2.00
351	14.80	3.60	2.15	0.94	0.70	47.36	1.51	71.67	0.114	No	No	2.00
352	14.82	5.00	1.96	0.66	0.63	64.18	1.28	81.93	0.131	No	No	2.00
353	14.84	6.26	1.84	0.53	0.58	78.89	1.19	93.84	0.157	No	No	2.00
354	14.86	7.12	1.75	0.44	0.55	88.58	1.00	88.58	0.145	No	No	2.00
355	14.88	7.59	1.69	0.36	0.53	93.43	1.00	93.43	0.156	No	No	2.00
356	14.90	7.79	1.63	0.27	0.50	94.83	1.00	94.83	0.159	No	No	2.00
357	14.92	7.81	1.60	0.23	0.49	94.43	1.00	94.43	0.158	No	No	2.00
358	14.94	7.79	1.59	0.21	0.49	93.98	1.00	93.98	0.157	No	No	2.00
359	14.96	7.85	1.60	0.23	0.49	94.82	1.00	94.82	0.159	No	No	2.00
360	14.98	8.23	1.59	0.24	0.49	99.15	1.00	99.15	0.171	No	No	2.00
361	15.00	8.97	1.56	0.24	0.48	107.40	1.00	107.40	0.195	No	No	2.00
362	15.02	10.06	1.52	0.25	0.46	119.80	1.00	119.80	0.240	No	No	2.00
363	15.04	11.30	1.47	0.24	0.44	133.53	1.00	133.53	0.301	No	No	2.00
364	15.06	12.32	1.43	0.23	0.43	144.66	1.00	144.66	0.362	No	No	2.00
365	15.08	12.87	1.41	0.22	0.42	150.52	1.00	150.52	0.397	No	No	2.00
366	15.10	13.00	1.42	0.24	0.42	152.02	1.00	152.02	0.407	No	No	2.00
367	15.12	13.03	1.43	0.25	0.43	152.64	1.00	152.64	0.411	No	No	2.00
368	15.14	13.23	1.43	0.26	0.43	154.80	1.00	154.80	0.425	No	No	2.00
369	15.16	13.81	1.42	0.27	0.42	161.27	1.00	161.27	0.470	No	No	2.00
370	15.18	14.43	1.42	0.29	0.42	168.24	1.00	168.24	0.523	No	No	2.00
371	15.20	14.98	1.42	0.31	0.42	174.51	1.00	174.51	0.574	No	No	2.00
372	15.22	15.10	1.43	0.33	0.43	176.20	1.00	176.20	0.589	No	No	2.00
373	15.24	15.15	1.44	0.34	0.43	176.64	1.00	176.64	0.593	No	No	2.00
374	15.26	15.17	1.43	0.33	0.43	176.52	1.00	176.52	0.592	No	No	2.00
375	15.28	15.28	1.41	0.31	0.42	177.25	1.00	177.25	0.598	No	No	2.00
376	15.30	15.36	1.42	0.32	0.42	178.01	1.00	178.01	0.605	No	No	2.00
377	15.32	15.47	1.41	0.31	0.42	178.95	1.00	178.95	0.613	No	No	2.00
378	15.34	15.48	1.42	0.33	0.43	179.20	1.00	179.20	0.615	No	No	2.00
379	15.36	15.58	1.41	0.31	0.42	179.88	1.00	179.88	0.621	No	No	2.00
380	15.38	15.53	1.41	0.31	0.42	179.09	1.00	179.09	0.614	No	No	2.00
381	15.40	15.52	1.40	0.30	0.42	178.56	1.00	178.56	0.609	No	No	2.00
382	15.42	15.46	1.40	0.30	0.42	177.72	1.00	177.72	0.602	No	No	2.00
383	15.44	15.45	1.40	0.29	0.42	177.38	1.00	177.38	0.599	No	No	2.00
384	15.46	15.37	1.39	0.28	0.41	176.05	1.00	176.05	0.587	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	15.48	14.97	1.41	0.29	0.42	171.64	1.00	171.64	0.550	No	No	2.00
386	15.50	14.11	1.47	0.34	0.44	162.84	1.00	162.84	0.482	No	No	2.00
387	15.52	13.10	1.50	0.35	0.46	151.63	1.00	151.63	0.404	No	No	2.00
388	15.54	12.29	1.52	0.34	0.46	142.29	1.00	142.29	0.348	No	No	2.00
389	15.56	11.90	1.50	0.30	0.46	137.35	1.00	137.35	0.321	No	No	2.00
390	15.58	11.77	1.51	0.31	0.46	135.87	1.00	135.87	0.313	No	No	2.00
391	15.60	11.65	1.51	0.30	0.46	134.28	1.00	134.28	0.305	No	No	2.00
392	15.62	11.52	1.50	0.27	0.46	132.43	1.00	132.43	0.296	No	No	2.00
393	15.64	11.34	1.50	0.26	0.46	130.14	1.00	130.14	0.285	No	No	2.00
394	15.66	11.20	1.54	0.31	0.47	129.06	1.00	129.06	0.280	No	No	2.00
395	15.68	11.30	1.56	0.35	0.48	130.51	1.00	130.51	0.287	No	No	2.00
396	15.70	11.64	1.54	0.34	0.47	133.93	1.00	133.93	0.303	No	No	2.00
397	15.72	11.86	1.52	0.32	0.46	136.09	1.00	136.09	0.314	No	No	2.00
398	15.74	11.53	1.56	0.38	0.48	132.82	1.00	132.82	0.298	No	No	2.00
399	15.76	11.05	1.60	0.42	0.50	127.72	1.00	127.72	0.274	No	No	2.00
400	15.78	10.50	1.62	0.43	0.50	121.49	1.00	121.49	0.247	No	No	2.00
401	15.80	10.24	1.61	0.37	0.50	118.05	1.00	118.05	0.233	No	No	2.00
402	15.82	9.98	1.63	0.40	0.51	115.26	1.00	115.26	0.222	No	No	2.00
403	15.84	10.15	1.63	0.41	0.51	117.05	1.00	117.05	0.229	No	No	2.00
404	15.86	10.89	1.59	0.38	0.49	124.93	1.00	124.93	0.261	No	No	2.00
405	15.88	12.03	1.53	0.34	0.47	137.00	1.00	137.00	0.319	No	No	2.00
406	15.90	13.76	1.44	0.28	0.44	155.07	1.00	155.07	0.427	No	No	2.00
407	15.92	16.23	1.36	0.24	0.40	180.99	1.00	180.99	0.631	No	No	2.00
408	15.94	18.50	1.28	0.21	0.37	204.49	1.00	204.49	4.000	No	No	2.00
409	15.96	20.03	1.24	0.20	0.36	220.34	1.00	220.34	4.000	No	No	2.00
410	15.98	19.12	1.25	0.19	0.36	210.30	1.00	210.30	4.000	No	No	2.00
411	16.00	18.25	1.29	0.21	0.38	201.28	1.00	201.28	4.000	No	No	2.00
412	16.02	16.79	1.33	0.23	0.39	185.92	1.00	185.92	0.678	No	No	2.00
413	16.04	16.40	1.36	0.25	0.40	181.97	1.00	181.97	0.640	No	No	2.00
414	16.06	15.55	1.37	0.24	0.41	172.48	1.00	172.48	0.557	No	No	2.00
415	16.08	14.84	1.45	0.32	0.44	165.91	1.00	165.91	0.505	No	No	2.00
416	16.10	14.13	1.51	0.40	0.46	158.91	1.00	158.91	0.453	No	No	2.00
417	16.12	13.42	1.57	0.47	0.48	151.67	1.00	151.67	0.404	No	No	2.00
418	16.14	12.84	1.58	0.45	0.49	145.03	1.00	145.03	0.364	No	No	2.00
419	16.16	12.43	1.59	0.46	0.49	140.45	1.00	140.45	0.338	No	No	2.00
420	16.18	11.92	1.63	0.51	0.51	134.96	1.00	134.96	0.309	No	No	2.00
421	16.20	10.91	1.68	0.56	0.53	123.97	1.00	123.97	0.257	No	No	2.00
422	16.22	10.34	1.72	0.60	0.54	117.76	1.03	120.91	0.244	No	No	2.00
423	16.24	11.17	1.72	0.66	0.54	127.20	1.02	130.21	0.285	No	No	2.00
424	16.26	12.83	1.71	0.76	0.54	145.97	1.00	145.97	0.369	No	No	2.00
425	16.28	14.02	1.73	0.91	0.55	159.84	1.05	168.11	0.522	No	No	2.00
426	16.30	14.18	1.77	1.05	0.56	162.16	1.11	180.29	0.625	No	No	2.00
427	16.32	14.13	1.81	1.19	0.58	161.99	1.16	188.25	0.700	No	No	2.00
428	16.34	14.28	1.80	1.16	0.57	163.32	1.15	187.81	0.696	No	No	2.00
429	16.36	14.36	1.78	1.10	0.57	163.70	1.13	184.77	0.667	No	No	2.00
430	16.38	14.14	1.75	0.96	0.55	160.34	1.08	172.85	0.560	No	No	2.00
431	16.40	13.30	1.75	0.93	0.56	150.68	1.09	164.58	0.495	No	No	2.00
432	16.42	12.10	1.76	0.85	0.56	136.78	1.10	150.37	0.396	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
433	16.44	10.83	1.80	0.86	0.57	122.60	1.16	141.61	0.344	No	No	2.00
434	16.46	9.53	1.88	0.98	0.60	108.38	1.22	132.42	0.296	No	No	2.00
435	16.48	8.30	2.03	1.42	0.66	95.42	1.33	126.99	0.270	No	No	2.00
436	16.50	7.78	2.14	1.95	0.70	90.08	1.48	133.62	0.302	No	No	2.00
437	16.52	8.19	2.18	2.32	0.72	95.19	1.56	148.33	0.383	No	No	2.00
438	16.54	9.25	2.15	2.37	0.71	107.22	1.50	160.83	0.467	No	No	2.00
439	16.56	10.34	2.12	2.39	0.70	119.52	1.45	173.22	0.563	No	No	2.00
440	16.58	11.45	2.10	2.42	0.69	132.03	1.41	186.56	0.684	No	No	2.00
441	16.60	12.68	2.08	2.47	0.68	145.80	1.39	202.02	4.000	No	No	2.00
442	16.62	13.80	2.05	2.47	0.67	158.26	1.36	215.00	4.000	No	No	2.00
443	16.64	14.67	2.04	2.50	0.67	167.84	1.35	225.81	4.000	No	No	2.00
444	16.66	15.22	2.05	2.62	0.67	173.97	1.35	235.31	4.000	No	No	2.00
445	16.68	15.64	2.06	2.73	0.67	178.66	1.36	243.32	4.000	No	No	2.00
446	16.70	15.75	2.07	2.87	0.68	179.75	1.38	248.18	4.000	No	No	2.00
447	16.72	15.74	2.08	2.96	0.68	179.47	1.39	250.25	4.000	No	No	2.00
448	16.74	15.88	2.09	3.02	0.69	180.83	1.40	253.49	4.000	No	No	2.00
449	16.76	16.25	2.09	3.10	0.69	184.79	1.41	260.20	4.000	No	No	2.00
450	16.78	16.88	2.09	3.16	0.69	191.60	1.40	269.15	4.000	No	No	2.00
451	16.80	17.63	2.08	3.19	0.68	199.78	1.40	278.80	4.000	No	No	2.00
452	16.82	19.12	2.05	3.05	0.67	215.70	1.35	291.92	4.000	No	No	2.00
453	16.84	20.71	2.01	2.90	0.66	232.78	1.32	306.70	4.000	No	No	2.00
454	16.86	22.15	1.98	2.80	0.65	248.06	1.29	321.10	4.000	No	No	2.00
455	16.88	22.73	1.98	2.85	0.65	254.05	1.29	328.91	4.000	No	No	2.00
456	16.90	22.64	2.00	2.97	0.65	252.94	1.31	330.73	4.000	No	No	2.00
457	16.92	22.48	2.02	3.08	0.66	250.93	1.32	331.49	4.000	No	No	2.00
458	16.94	21.43	2.05	3.31	0.67	239.37	1.36	325.42	4.000	No	No	2.00
459	16.96	21.75	2.05	3.35	0.67	242.55	1.36	329.84	4.000	No	No	2.00
460	16.98	22.11	2.06	3.42	0.68	246.16	1.37	336.17	4.000	No	No	2.00
461	17.00	23.35	2.04	3.34	0.67	259.28	1.34	348.23	4.000	No	No	2.00
462	17.02	23.58	2.04	3.40	0.67	261.42	1.35	352.46	4.000	No	No	2.00
463	17.04	23.82	2.04	3.43	0.67	263.59	1.35	355.62	4.000	No	No	2.00
464	17.06	24.06	2.05	3.46	0.67	265.84	1.35	359.10	4.000	No	No	2.00
465	17.08	24.17	2.05	3.50	0.67	266.62	1.36	361.33	4.000	No	No	2.00
466	17.10	24.20	2.05	3.53	0.67	266.55	1.36	362.23	4.000	No	No	2.00

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
7.80	2.00	0.00	0.00	0.02	0.00	7.82	2.00	0.00	0.00	0.02	0.00
7.84	2.00	0.00	0.00	0.02	0.00	7.86	2.00	0.00	0.00	0.02	0.00
7.88	2.00	0.00	0.00	0.02	0.00	7.90	2.00	0.00	0.00	0.02	0.00
7.92	2.00	0.00	0.00	0.02	0.00	7.94	2.00	0.00	0.00	0.02	0.00
7.96	2.00	0.00	0.00	0.02	0.00	7.98	2.00	0.00	0.00	0.02	0.00
8.00	2.00	0.00	0.00	0.02	0.00	8.02	2.00	0.00	0.00	0.02	0.00
8.04	2.00	0.00	0.00	0.02	0.00	8.06	2.00	0.00	0.00	0.02	0.00
8.08	2.00	0.00	0.00	0.02	0.00	8.10	2.00	0.00	0.00	0.02	0.00
8.12	2.00	0.00	0.00	0.02	0.00	8.14	2.00	0.00	0.00	0.02	0.00
8.16	2.00	0.00	0.00	0.02	0.00	8.18	2.00	0.00	0.00	0.02	0.00
8.20	2.00	0.00	0.00	0.02	0.00	8.22	2.00	0.00	0.00	0.02	0.00
8.24	2.00	0.00	0.00	0.02	0.00	8.26	2.00	0.00	0.00	0.02	0.00
8.28	2.00	0.00	0.00	0.02	0.00	8.30	2.00	0.00	0.00	0.02	0.00
8.32	2.00	0.00	0.00	0.02	0.00	8.34	2.00	0.00	0.00	0.02	0.00
8.36	2.00	0.00	0.00	0.02	0.00	8.38	2.00	0.00	0.00	0.02	0.00
8.40	2.00	0.00	0.00	0.02	0.00	8.42	2.00	0.00	0.00	0.02	0.00
8.44	2.00	0.00	0.00	0.02	0.00	8.46	2.00	0.00	0.00	0.02	0.00
8.48	2.00	0.00	0.00	0.02	0.00	8.50	2.00	0.00	0.00	0.02	0.00
8.52	2.00	0.00	0.00	0.02	0.00	8.54	2.00	0.00	0.00	0.02	0.00
8.56	2.00	0.00	0.00	0.02	0.00	8.58	2.00	0.00	0.00	0.02	0.00
8.60	2.00	0.00	0.00	0.02	0.00	8.62	2.00	0.00	0.00	0.02	0.00
8.64	2.00	0.00	0.00	0.02	0.00	8.66	2.00	0.00	0.00	0.02	0.00
8.68	2.00	0.00	0.00	0.02	0.00	8.70	2.00	0.00	0.00	0.02	0.00
8.72	2.00	0.00	0.00	0.02	0.00	8.74	2.00	0.00	0.00	0.02	0.00
8.76	2.00	0.00	0.00	0.02	0.00	8.78	2.00	0.00	0.00	0.02	0.00
8.80	2.00	0.00	0.00	0.02	0.00	8.82	2.00	0.00	0.00	0.02	0.00
8.84	2.00	0.00	0.00	0.02	0.00	8.86	2.00	0.00	0.00	0.02	0.00
8.88	2.00	0.00	0.00	0.02	0.00	8.90	2.00	0.00	0.00	0.02	0.00
8.92	2.00	0.00	0.00	0.02	0.00	8.94	2.00	0.00	0.00	0.02	0.00
8.96	2.00	0.00	0.00	0.02	0.00	8.98	2.00	0.00	0.00	0.02	0.00
9.00	2.00	0.00	0.00	0.02	0.00	9.02	2.00	0.00	0.00	0.02	0.00
9.04	2.00	0.00	0.00	0.02	0.00	9.06	2.00	0.00	0.00	0.02	0.00
9.08	2.00	0.00	0.00	0.02	0.00	9.10	2.00	0.00	0.00	0.02	0.00
9.12	2.00	0.00	0.00	0.02	0.00	9.14	2.00	0.00	0.00	0.02	0.00
9.16	2.00	0.00	0.00	0.02	0.00	9.18	2.00	0.00	0.00	0.02	0.00
9.20	2.00	0.00	0.00	0.02	0.00	9.22	2.00	0.00	0.00	0.02	0.00
9.24	2.00	0.00	0.00	0.02	0.00	9.26	2.00	0.00	0.00	0.02	0.00
9.28	2.00	0.00	0.00	0.02	0.00	9.30	2.00	0.00	0.00	0.02	0.00
9.32	2.00	0.00	0.00	0.02	0.00	9.34	2.00	0.00	0.00	0.02	0.00
9.36	2.00	0.00	0.00	0.02	0.00	9.38	2.00	0.00	0.00	0.02	0.00
9.40	2.00	0.00	0.00	0.02	0.00	9.42	2.00	0.00	0.00	0.02	0.00
9.44	2.00	0.00	0.00	0.02	0.00	9.46	2.00	0.00	0.00	0.02	0.00
9.48	2.00	0.00	0.00	0.02	0.00	9.50	2.00	0.00	0.00	0.02	0.00
9.52	2.00	0.00	0.00	0.02	0.00	9.54	2.00	0.00	0.00	0.02	0.00
9.56	2.00	0.00	0.00	0.02	0.00	9.58	2.00	0.00	0.00	0.02	0.00
9.60	2.00	0.00	0.00	0.02	0.00	9.62	2.00	0.00	0.00	0.02	0.00
9.64	2.00	0.00	0.00	0.02	0.00	9.66	2.00	0.00	0.00	0.02	0.00
9.68	2.00	0.00	0.00	0.02	0.00	9.70	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
9.72	2.00	0.00	0.00	0.02	0.00	9.74	2.00	0.00	0.00	0.02	0.00
9.76	2.00	0.00	0.00	0.02	0.00	9.78	2.00	0.00	0.00	0.02	0.00
9.80	2.00	0.00	0.00	0.02	0.00	9.82	2.00	0.00	0.00	0.02	0.00
9.84	2.00	0.00	0.00	0.02	0.00	9.86	2.00	0.00	0.00	0.02	0.00
9.88	2.00	0.00	0.00	0.02	0.00	9.90	2.00	0.00	0.00	0.02	0.00
9.92	2.00	0.00	0.00	0.02	0.00	9.94	2.00	0.00	0.00	0.02	0.00
9.96	2.00	0.00	0.00	0.02	0.00	9.98	2.00	0.00	0.00	0.02	0.00
10.00	2.00	0.00	0.00	0.02	0.00	10.02	2.00	0.00	0.00	0.02	0.00
10.04	2.00	0.00	0.00	0.02	0.00	10.06	2.00	0.00	0.00	0.02	0.00
10.08	2.00	0.00	0.00	0.02	0.00	10.10	2.00	0.00	0.00	0.02	0.00
10.12	2.00	0.00	0.00	0.02	0.00	10.14	2.00	0.00	0.00	0.02	0.00
10.16	2.00	0.00	0.00	0.02	0.00	10.18	2.00	0.00	0.00	0.02	0.00
10.20	2.00	0.00	0.00	0.02	0.00	10.22	2.00	0.00	0.00	0.02	0.00
10.24	2.00	0.00	0.00	0.02	0.00	10.26	2.00	0.00	0.00	0.02	0.00
10.28	2.00	0.00	0.00	0.02	0.00	10.30	2.00	0.00	0.00	0.02	0.00
10.32	2.00	0.00	0.00	0.02	0.00	10.34	2.00	0.00	0.00	0.02	0.00
10.36	2.00	0.00	0.00	0.02	0.00	10.38	2.00	0.00	0.00	0.02	0.00
10.40	2.00	0.00	0.00	0.02	0.00	10.42	2.00	0.00	0.00	0.02	0.00
10.44	2.00	0.00	0.00	0.02	0.00	10.46	2.00	0.00	0.00	0.02	0.00
10.48	2.00	0.00	0.00	0.02	0.00	10.50	2.00	0.00	0.00	0.02	0.00
10.52	2.00	0.00	0.00	0.02	0.00	10.54	2.00	0.00	0.00	0.02	0.00
10.56	2.00	0.00	0.00	0.02	0.00	10.58	2.00	0.00	0.00	0.02	0.00
10.60	2.00	0.00	0.00	0.02	0.00	10.62	2.00	0.00	0.00	0.02	0.00
10.64	2.00	0.00	0.00	0.02	0.00	10.66	2.00	0.00	0.00	0.02	0.00
10.68	2.00	0.00	0.00	0.02	0.00	10.70	2.00	0.00	0.00	0.02	0.00
10.72	2.00	0.00	0.00	0.02	0.00	10.74	2.00	0.00	0.00	0.02	0.00
10.76	2.00	0.00	0.00	0.02	0.00	10.78	2.00	0.00	0.00	0.02	0.00
10.80	2.00	0.00	0.00	0.02	0.00	10.82	2.00	0.00	0.00	0.02	0.00
10.84	2.00	0.00	0.00	0.02	0.00	10.86	2.00	0.00	0.00	0.02	0.00
10.88	2.00	0.00	0.00	0.02	0.00	10.90	2.00	0.00	0.00	0.02	0.00
10.92	2.00	0.00	0.00	0.02	0.00	10.94	2.00	0.00	0.00	0.02	0.00
10.96	2.00	0.00	0.00	0.02	0.00	10.98	2.00	0.00	0.00	0.02	0.00
11.00	2.00	0.00	0.00	0.02	0.00	11.02	2.00	0.00	0.00	0.02	0.00
11.04	2.00	0.00	0.00	0.02	0.00	11.06	2.00	0.00	0.00	0.02	0.00
11.08	2.00	0.00	0.00	0.02	0.00	11.10	2.00	0.00	0.00	0.02	0.00
11.12	2.00	0.00	0.00	0.02	0.00	11.14	2.00	0.00	0.00	0.02	0.00
11.16	2.00	0.00	0.00	0.02	0.00	11.18	2.00	0.00	0.00	0.02	0.00
11.20	2.00	0.00	0.00	0.02	0.00	11.22	2.00	0.00	0.00	0.02	0.00
11.24	2.00	0.00	0.00	0.02	0.00	11.26	2.00	0.00	0.00	0.02	0.00
11.28	2.00	0.00	0.00	0.02	0.00	11.30	2.00	0.00	0.00	0.02	0.00
11.32	2.00	0.00	0.00	0.02	0.00	11.34	2.00	0.00	0.00	0.02	0.00
11.36	2.00	0.00	0.00	0.02	0.00	11.38	2.00	0.00	0.00	0.02	0.00
11.40	2.00	0.00	0.00	0.02	0.00	11.42	2.00	0.00	0.00	0.02	0.00
11.44	2.00	0.00	0.00	0.02	0.00	11.46	2.00	0.00	0.00	0.02	0.00
11.48	2.00	0.00	0.00	0.02	0.00	11.50	2.00	0.00	0.00	0.02	0.00
11.52	2.00	0.00	0.00	0.02	0.00	11.54	2.00	0.00	0.00	0.02	0.00
11.56	2.00	0.00	0.00	0.02	0.00	11.58	2.00	0.00	0.00	0.02	0.00
11.60	2.00	0.00	0.00	0.02	0.00	11.62	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
11.64	2.00	0.00	0.00	0.02	0.00	11.66	2.00	0.00	0.00	0.02	0.00
11.68	2.00	0.00	0.00	0.02	0.00	11.70	2.00	0.00	0.00	0.02	0.00
11.72	2.00	0.00	0.00	0.02	0.00	11.74	2.00	0.00	0.00	0.02	0.00
11.76	2.00	0.00	0.00	0.02	0.00	11.78	2.00	0.00	0.00	0.02	0.00
11.80	2.00	0.00	0.00	0.02	0.00	11.82	2.00	0.00	0.00	0.02	0.00
11.84	2.00	0.00	0.00	0.02	0.00	11.86	2.00	0.00	0.00	0.02	0.00
11.88	2.00	0.00	0.00	0.02	0.00	11.90	2.00	0.00	0.00	0.02	0.00
11.92	2.00	0.00	0.00	0.02	0.00	11.94	2.00	0.00	0.00	0.02	0.00
11.96	2.00	0.00	0.00	0.02	0.00	11.98	2.00	0.00	0.00	0.02	0.00
12.00	2.00	0.00	0.00	0.02	0.00	12.02	2.00	0.00	0.00	0.02	0.00
12.04	2.00	0.00	0.00	0.02	0.00	12.06	2.00	0.00	0.00	0.02	0.00
12.08	2.00	0.00	0.00	0.02	0.00	12.10	2.00	0.00	0.00	0.02	0.00
12.12	2.00	0.00	0.00	0.02	0.00	12.14	2.00	0.00	0.00	0.02	0.00
12.16	2.00	0.00	0.00	0.02	0.00	12.18	2.00	0.00	0.00	0.02	0.00
12.20	2.00	0.00	0.00	0.02	0.00	12.22	2.00	0.00	0.00	0.02	0.00
12.24	2.00	0.00	0.00	0.02	0.00	12.26	2.00	0.00	0.00	0.02	0.00
12.28	2.00	0.00	0.00	0.02	0.00	12.30	2.00	0.00	0.00	0.02	0.00
12.32	2.00	0.00	0.00	0.02	0.00	12.34	2.00	0.00	0.00	0.02	0.00
12.36	2.00	0.00	0.00	0.02	0.00	12.38	2.00	0.00	0.00	0.02	0.00
12.40	2.00	0.00	0.00	0.02	0.00	12.42	2.00	0.00	0.00	0.02	0.00
12.44	2.00	0.00	0.00	0.02	0.00	12.46	2.00	0.00	0.00	0.02	0.00
12.48	2.00	0.00	0.00	0.02	0.00	12.50	2.00	0.00	0.00	0.02	0.00
12.52	2.00	0.00	0.00	0.02	0.00	12.54	2.00	0.00	0.00	0.02	0.00
12.56	2.00	0.00	0.00	0.02	0.00	12.58	2.00	0.00	0.00	0.02	0.00
12.60	2.00	0.00	0.00	0.02	0.00	12.62	2.00	0.00	0.00	0.02	0.00
12.64	2.00	0.00	0.00	0.02	0.00	12.66	2.00	0.00	0.00	0.02	0.00
12.68	2.00	0.00	0.00	0.02	0.00	12.70	2.00	0.00	0.00	0.02	0.00
12.72	2.00	0.00	0.00	0.02	0.00	12.74	2.00	0.00	0.00	0.02	0.00
12.76	2.00	0.00	0.00	0.02	0.00	12.78	2.00	0.00	0.00	0.02	0.00
12.80	2.00	0.00	0.00	0.02	0.00	12.82	2.00	0.00	0.00	0.02	0.00
12.84	2.00	0.00	0.00	0.02	0.00	12.86	2.00	0.00	0.00	0.02	0.00
12.88	2.00	0.00	0.00	0.02	0.00	12.90	2.00	0.00	0.00	0.02	0.00
12.92	2.00	0.00	0.00	0.02	0.00	12.94	2.00	0.00	0.00	0.02	0.00
12.96	2.00	0.00	0.00	0.02	0.00	12.98	2.00	0.00	0.00	0.02	0.00
13.00	2.00	0.00	0.00	0.02	0.00	13.02	2.00	0.00	0.00	0.02	0.00
13.04	2.00	0.00	0.00	0.02	0.00	13.06	2.00	0.00	0.00	0.02	0.00
13.08	2.00	0.00	0.00	0.02	0.00	13.10	2.00	0.00	0.00	0.02	0.00
13.12	2.00	0.00	0.00	0.02	0.00	13.14	2.00	0.00	0.00	0.02	0.00
13.16	2.00	0.00	0.00	0.02	0.00	13.18	2.00	0.00	0.00	0.02	0.00
13.20	2.00	0.00	0.00	0.02	0.00	13.22	2.00	0.00	0.00	0.02	0.00
13.24	2.00	0.00	0.00	0.02	0.00	13.26	2.00	0.00	0.00	0.02	0.00
13.28	2.00	0.00	0.00	0.02	0.00	13.30	2.00	0.00	0.00	0.02	0.00
13.32	2.00	0.00	0.00	0.02	0.00	13.34	2.00	0.00	0.00	0.02	0.00
13.36	2.00	0.00	0.00	0.02	0.00	13.38	2.00	0.00	0.00	0.02	0.00
13.40	2.00	0.00	0.00	0.02	0.00	13.42	2.00	0.00	0.00	0.02	0.00
13.44	2.00	0.00	0.00	0.02	0.00	13.46	2.00	0.00	0.00	0.02	0.00
13.48	2.00	0.00	0.00	0.02	0.00	13.50	2.00	0.00	0.00	0.02	0.00
13.52	2.00	0.00	0.00	0.02	0.00	13.54	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
13.56	2.00	0.00	0.00	0.02	0.00	13.58	2.00	0.00	0.00	0.02	0.00
13.60	2.00	0.00	0.00	0.02	0.00	13.62	2.00	0.00	0.00	0.02	0.00
13.64	2.00	0.00	0.00	0.02	0.00	13.66	2.00	0.00	0.00	0.02	0.00
13.68	2.00	0.00	0.00	0.02	0.00	13.70	2.00	0.00	0.00	0.02	0.00
13.72	2.00	0.00	0.00	0.02	0.00	13.74	2.00	0.00	0.00	0.02	0.00
13.76	2.00	0.00	0.00	0.02	0.00	13.78	2.00	0.00	0.00	0.02	0.00
13.80	2.00	0.00	0.00	0.02	0.00	13.82	2.00	0.00	0.00	0.02	0.00
13.84	2.00	0.00	0.00	0.02	0.00	13.86	1.84	0.00	0.00	0.02	0.00
13.88	2.00	0.00	0.00	0.02	0.00	13.90	2.00	0.00	0.00	0.02	0.00
13.92	2.00	0.00	0.00	0.02	0.00	13.94	2.00	0.00	0.00	0.02	0.00
13.96	2.00	0.00	0.00	0.02	0.00	13.98	2.00	0.00	0.00	0.02	0.00
14.00	2.00	0.00	0.00	0.02	0.00	14.02	2.00	0.00	0.00	0.02	0.00
14.04	2.00	0.00	0.00	0.02	0.00	14.06	2.00	0.00	0.00	0.02	0.00
14.08	2.00	0.00	0.00	0.02	0.00	14.10	2.00	0.00	0.00	0.02	0.00
14.12	2.00	0.00	0.00	0.02	0.00	14.14	2.00	0.00	0.00	0.02	0.00
14.16	2.00	0.00	0.00	0.02	0.00	14.18	2.00	0.00	0.00	0.02	0.00
14.20	2.00	0.00	0.00	0.02	0.00	14.22	2.00	0.00	0.00	0.02	0.00
14.24	2.00	0.00	0.00	0.02	0.00	14.26	2.00	0.00	0.00	0.02	0.00
14.28	2.00	0.00	0.00	0.02	0.00	14.30	2.00	0.00	0.00	0.02	0.00
14.32	2.00	0.00	0.00	0.02	0.00	14.34	2.00	0.00	0.00	0.02	0.00
14.36	2.00	0.00	0.00	0.02	0.00	14.38	2.00	0.00	0.00	0.02	0.00
14.40	2.00	0.00	0.00	0.02	0.00	14.42	2.00	0.00	0.00	0.02	0.00
14.44	2.00	0.00	0.00	0.02	0.00	14.46	2.00	0.00	0.00	0.02	0.00
14.48	2.00	0.00	0.00	0.02	0.00	14.50	2.00	0.00	0.00	0.02	0.00
14.52	1.40	0.00	0.00	0.02	0.00	14.54	1.43	0.00	0.00	0.02	0.00
14.56	1.48	0.00	0.00	0.02	0.00	14.58	1.56	0.00	0.00	0.02	0.00
14.60	1.63	0.00	0.00	0.02	0.00	14.62	1.71	0.00	0.00	0.02	0.00
14.64	1.77	0.00	0.00	0.02	0.00	14.66	1.79	0.00	0.00	0.02	0.00
14.68	1.75	0.00	0.00	0.02	0.00	14.70	1.67	0.00	0.00	0.02	0.00
14.72	1.60	0.00	0.00	0.02	0.00	14.74	1.55	0.00	0.00	0.02	0.00
14.76	2.00	0.00	0.00	0.02	0.00	14.78	2.00	0.00	0.00	0.02	0.00
14.80	2.00	0.00	0.00	0.02	0.00	14.82	2.00	0.00	0.00	0.02	0.00
14.84	2.00	0.00	0.00	0.02	0.00	14.86	2.00	0.00	0.00	0.02	0.00
14.88	2.00	0.00	0.00	0.02	0.00	14.90	2.00	0.00	0.00	0.02	0.00
14.92	2.00	0.00	0.00	0.02	0.00	14.94	2.00	0.00	0.00	0.02	0.00
14.96	2.00	0.00	0.00	0.02	0.00	14.98	2.00	0.00	0.00	0.02	0.00
15.00	2.00	0.00	0.00	0.02	0.00	15.02	2.00	0.00	0.00	0.02	0.00
15.04	2.00	0.00	0.00	0.02	0.00	15.06	2.00	0.00	0.00	0.02	0.00
15.08	2.00	0.00	0.00	0.02	0.00	15.10	2.00	0.00	0.00	0.02	0.00
15.12	2.00	0.00	0.00	0.02	0.00	15.14	2.00	0.00	0.00	0.02	0.00
15.16	2.00	0.00	0.00	0.02	0.00	15.18	2.00	0.00	0.00	0.02	0.00
15.20	2.00	0.00	0.00	0.02	0.00	15.22	2.00	0.00	0.00	0.02	0.00
15.24	2.00	0.00	0.00	0.02	0.00	15.26	2.00	0.00	0.00	0.02	0.00
15.28	2.00	0.00	0.00	0.02	0.00	15.30	2.00	0.00	0.00	0.02	0.00
15.32	2.00	0.00	0.00	0.02	0.00	15.34	2.00	0.00	0.00	0.02	0.00
15.36	2.00	0.00	0.00	0.02	0.00	15.38	2.00	0.00	0.00	0.02	0.00
15.40	2.00	0.00	0.00	0.02	0.00	15.42	2.00	0.00	0.00	0.02	0.00
15.44	2.00	0.00	0.00	0.02	0.00	15.46	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
15.48	2.00	0.00	0.00	0.02	0.00	15.50	2.00	0.00	0.00	0.02	0.00
15.52	2.00	0.00	0.00	0.02	0.00	15.54	2.00	0.00	0.00	0.02	0.00
15.56	2.00	0.00	0.00	0.02	0.00	15.58	2.00	0.00	0.00	0.02	0.00
15.60	2.00	0.00	0.00	0.02	0.00	15.62	2.00	0.00	0.00	0.02	0.00
15.64	2.00	0.00	0.00	0.02	0.00	15.66	2.00	0.00	0.00	0.02	0.00
15.68	2.00	0.00	0.00	0.02	0.00	15.70	2.00	0.00	0.00	0.02	0.00
15.72	2.00	0.00	0.00	0.02	0.00	15.74	2.00	0.00	0.00	0.02	0.00
15.76	2.00	0.00	0.00	0.02	0.00	15.78	2.00	0.00	0.00	0.02	0.00
15.80	2.00	0.00	0.00	0.02	0.00	15.82	2.00	0.00	0.00	0.02	0.00
15.84	2.00	0.00	0.00	0.02	0.00	15.86	2.00	0.00	0.00	0.02	0.00
15.88	2.00	0.00	0.00	0.02	0.00	15.90	2.00	0.00	0.00	0.02	0.00
15.92	2.00	0.00	0.00	0.02	0.00	15.94	2.00	0.00	0.00	0.02	0.00
15.96	2.00	0.00	0.00	0.02	0.00	15.98	2.00	0.00	0.00	0.02	0.00
16.00	2.00	0.00	0.00	0.02	0.00	16.02	2.00	0.00	0.00	0.02	0.00
16.04	2.00	0.00	0.00	0.02	0.00	16.06	2.00	0.00	0.00	0.02	0.00
16.08	2.00	0.00	0.00	0.02	0.00	16.10	2.00	0.00	0.00	0.02	0.00
16.12	2.00	0.00	0.00	0.02	0.00	16.14	2.00	0.00	0.00	0.02	0.00
16.16	2.00	0.00	0.00	0.02	0.00	16.18	2.00	0.00	0.00	0.02	0.00
16.20	2.00	0.00	0.00	0.02	0.00	16.22	2.00	0.00	0.00	0.02	0.00
16.24	2.00	0.00	0.00	0.02	0.00	16.26	2.00	0.00	0.00	0.02	0.00
16.28	2.00	0.00	0.00	0.02	0.00	16.30	2.00	0.00	0.00	0.02	0.00
16.32	2.00	0.00	0.00	0.02	0.00	16.34	2.00	0.00	0.00	0.02	0.00
16.36	2.00	0.00	0.00	0.02	0.00	16.38	2.00	0.00	0.00	0.02	0.00
16.40	2.00	0.00	0.00	0.02	0.00	16.42	2.00	0.00	0.00	0.02	0.00
16.44	2.00	0.00	0.00	0.02	0.00	16.46	2.00	0.00	0.00	0.02	0.00
16.48	2.00	0.00	0.00	0.02	0.00	16.50	2.00	0.00	0.00	0.02	0.00
16.52	2.00	0.00	0.00	0.02	0.00	16.54	2.00	0.00	0.00	0.02	0.00
16.56	2.00	0.00	0.00	0.02	0.00	16.58	2.00	0.00	0.00	0.02	0.00
16.60	2.00	0.00	0.00	0.02	0.00	16.62	2.00	0.00	0.00	0.02	0.00
16.64	2.00	0.00	0.00	0.02	0.00	16.66	2.00	0.00	0.00	0.02	0.00
16.68	2.00	0.00	0.00	0.02	0.00	16.70	2.00	0.00	0.00	0.02	0.00
16.72	2.00	0.00	0.00	0.02	0.00	16.74	2.00	0.00	0.00	0.02	0.00
16.76	2.00	0.00	0.00	0.02	0.00	16.78	2.00	0.00	0.00	0.02	0.00
16.80	2.00	0.00	0.00	0.02	0.00	16.82	2.00	0.00	0.00	0.02	0.00
16.84	2.00	0.00	0.00	0.02	0.00	16.86	2.00	0.00	0.00	0.02	0.00
16.88	2.00	0.00	0.00	0.02	0.00	16.90	2.00	0.00	0.00	0.02	0.00
16.92	2.00	0.00	0.00	0.02	0.00	16.94	2.00	0.00	0.00	0.02	0.00
16.96	2.00	0.00	0.00	0.02	0.00	16.98	2.00	0.00	0.00	0.02	0.00
17.00	2.00	0.00	0.00	0.02	0.00	17.02	2.00	0.00	0.00	0.02	0.00
17.04	2.00	0.00	0.00	0.02	0.00	17.06	2.00	0.00	0.00	0.02	0.00
17.08	2.00	0.00	0.00	0.02	0.00	17.10	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI

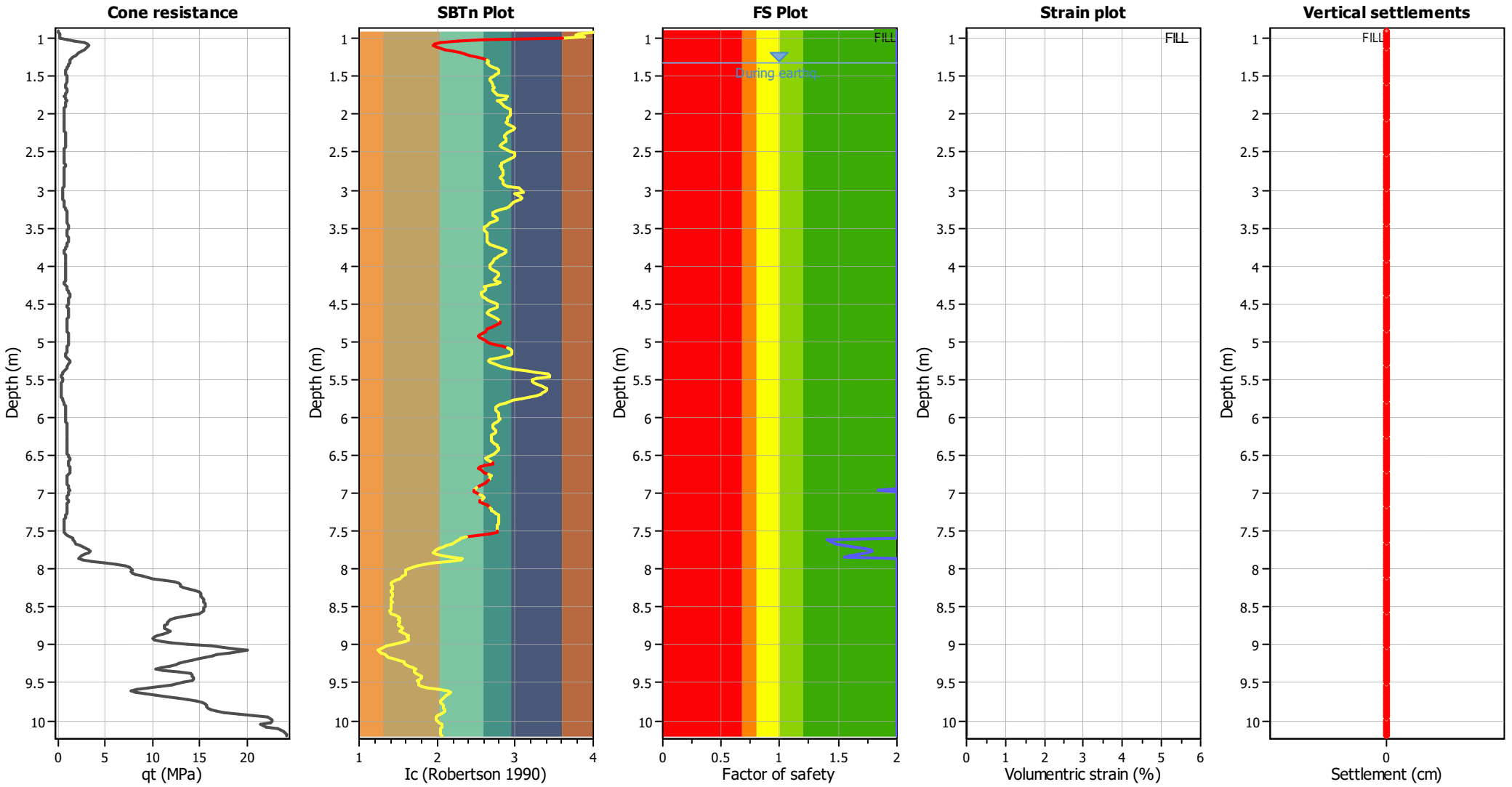
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
8.24	166.37	2.00	0.00	0.54	0.00	8.26	183.48	2.00	0.00	0.54	0.00
8.28	93.51	2.00	0.00	0.54	0.00	8.30	94.91	2.00	0.00	0.54	0.00
8.32	94.35	2.00	0.00	0.54	0.00	8.34	92.33	2.00	0.00	0.54	0.00
8.36	90.50	2.00	0.00	0.54	0.00	8.38	87.10	2.00	0.00	0.53	0.00
8.40	83.46	2.00	0.00	0.53	0.00	8.42	167.82	2.00	0.00	0.53	0.00
8.44	156.91	2.00	0.00	0.53	0.00	8.46	160.32	2.00	0.00	0.53	0.00
8.48	163.76	2.00	0.00	0.53	0.00	8.50	79.36	2.00	0.00	0.53	0.00
8.52	79.85	2.00	0.00	0.53	0.00	8.54	81.84	2.00	0.00	0.53	0.00
8.56	81.82	2.00	0.00	0.52	0.00	8.58	82.26	2.00	0.00	0.52	0.00
8.60	83.15	2.00	0.00	0.52	0.00	8.62	84.77	2.00	0.00	0.52	0.00
8.64	86.69	2.00	0.00	0.52	0.00	8.66	93.59	2.00	0.00	0.52	0.00
8.68	95.04	2.00	0.00	0.52	0.00	8.70	96.14	2.00	0.00	0.52	0.00
8.72	92.53	2.00	0.00	0.52	0.00	8.74	93.67	2.00	0.00	0.51	0.00
8.76	94.15	2.00	0.00	0.51	0.00	8.78	94.27	2.00	0.00	0.51	0.00
8.80	95.75	2.00	0.00	0.51	0.00	8.82	97.26	2.00	0.00	0.51	0.00
8.84	97.54	2.00	0.00	0.51	0.00	8.86	96.45	2.00	0.00	0.51	0.00
8.88	96.36	2.00	0.00	0.51	0.00	8.90	95.37	2.00	0.00	0.51	0.00
8.92	96.22	2.00	0.00	0.50	0.00	8.94	95.82	2.00	0.00	0.50	0.00
8.96	96.22	2.00	0.00	0.50	0.00	8.98	94.50	2.00	0.00	0.50	0.00
9.00	93.59	2.00	0.00	0.50	0.00	9.02	94.25	2.00	0.00	0.50	0.00
9.04	96.12	2.00	0.00	0.50	0.00	9.06	98.38	2.00	0.00	0.50	0.00
9.08	100.66	2.00	0.00	0.50	0.00	9.10	101.78	2.00	0.00	0.49	0.00
9.12	101.65	2.00	0.00	0.49	0.00	9.14	100.14	2.00	0.00	0.49	0.00
9.16	98.38	2.00	0.00	0.49	0.00	9.18	97.87	2.00	0.00	0.49	0.00
9.20	98.29	2.00	0.00	0.49	0.00	9.22	98.70	2.00	0.00	0.49	0.00
9.24	98.01	2.00	0.00	0.49	0.00	9.26	96.26	2.00	0.00	0.49	0.00
9.28	93.49	2.00	0.00	0.48	0.00	9.30	90.22	2.00	0.00	0.48	0.00
9.32	87.89	2.00	0.00	0.48	0.00	9.34	86.77	2.00	0.00	0.48	0.00
9.36	87.37	2.00	0.00	0.48	0.00	9.38	88.65	2.00	0.00	0.48	0.00
9.40	91.25	2.00	0.00	0.48	0.00	9.42	93.88	2.00	0.00	0.48	0.00
9.44	95.02	2.00	0.00	0.48	0.00	9.46	93.82	2.00	0.00	0.47	0.00
9.48	91.06	2.00	0.00	0.47	0.00	9.50	87.35	2.00	0.00	0.47	0.00
9.52	84.68	2.00	0.00	0.47	0.00	9.54	81.73	2.00	0.00	0.47	0.00
9.56	81.03	2.00	0.00	0.47	0.00	9.58	80.69	2.00	0.00	0.47	0.00
9.60	80.95	2.00	0.00	0.47	0.00	9.62	80.31	2.00	0.00	0.47	0.00
9.64	80.02	2.00	0.00	0.46	0.00	9.66	80.06	2.00	0.00	0.46	0.00
9.68	79.64	2.00	0.00	0.46	0.00	9.70	78.78	2.00	0.00	0.46	0.00
9.72	77.72	2.00	0.00	0.46	0.00	9.74	77.60	2.00	0.00	0.46	0.00
9.76	78.02	2.00	0.00	0.46	0.00	9.78	78.64	2.00	0.00	0.46	0.00
9.80	78.73	2.00	0.00	0.46	0.00	9.82	78.40	2.00	0.00	0.45	0.00
9.84	78.72	2.00	0.00	0.45	0.00	9.86	80.12	2.00	0.00	0.45	0.00
9.88	85.05	2.00	0.00	0.45	0.00	9.90	85.23	2.00	0.00	0.45	0.00
9.92	84.36	2.00	0.00	0.45	0.00	9.94	80.69	2.00	0.00	0.45	0.00
9.96	81.97	2.00	0.00	0.45	0.00	9.98	85.12	2.00	0.00	0.45	0.00
10.00	88.76	2.00	0.00	0.44	0.00	10.02	91.69	2.00	0.00	0.44	0.00
10.04	92.57	2.00	0.00	0.44	0.00	10.06	92.23	2.00	0.00	0.44	0.00
10.08	91.75	2.00	0.00	0.44	0.00	10.10	91.75	2.00	0.00	0.44	0.00
10.12	91.44	2.00	0.00	0.44	0.00	10.14	90.87	2.00	0.00	0.44	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
10.16	89.04	2.00	0.00	0.44	0.00	10.18	87.48	2.00	0.00	0.43	0.00
10.20	86.10	2.00	0.00	0.43	0.00	10.22	87.23	2.00	0.00	0.43	0.00
10.24	89.28	2.00	0.00	0.43	0.00	10.26	91.57	2.00	0.00	0.43	0.00
10.28	92.99	2.00	0.00	0.43	0.00	10.30	92.70	2.00	0.00	0.43	0.00
10.32	89.11	2.00	0.00	0.43	0.00	10.34	169.05	2.00	0.00	0.43	0.00
10.36	132.70	2.00	0.00	0.42	0.00	10.38	114.28	2.00	0.00	0.42	0.00
10.40	106.76	2.00	0.00	0.42	0.00	10.42	106.79	2.00	0.00	0.42	0.00
10.44	118.02	2.00	0.00	0.42	0.00	10.46	127.53	2.00	0.00	0.42	0.00
10.48	134.72	2.00	0.00	0.42	0.00	10.50	132.97	2.00	0.00	0.42	0.00
10.52	131.91	2.00	0.00	0.42	0.00	10.54	128.40	2.00	0.00	0.41	0.00
10.56	128.48	2.00	0.00	0.41	0.00	10.58	127.77	2.00	0.00	0.41	0.00
10.60	137.16	2.00	0.00	0.41	0.00	10.62	157.51	2.00	0.00	0.41	0.00
10.64	81.92	2.00	0.00	0.41	0.00	10.66	85.37	2.00	0.00	0.41	0.00
10.68	87.98	2.00	0.00	0.41	0.00	10.70	89.15	2.00	0.00	0.41	0.00
10.72	88.30	2.00	0.00	0.40	0.00	10.74	85.31	2.00	0.00	0.40	0.00
10.76	82.13	2.00	0.00	0.40	0.00	10.78	77.92	2.00	0.00	0.40	0.00
10.80	75.18	2.00	0.00	0.40	0.00	10.82	71.90	2.00	0.00	0.40	0.00
10.84	70.14	2.00	0.00	0.40	0.00	10.86	142.63	2.00	0.00	0.40	0.00
10.88	134.87	2.00	0.00	0.40	0.00	10.90	136.20	2.00	0.00	0.39	0.00
10.92	142.44	2.00	0.00	0.39	0.00	10.94	73.12	2.00	0.00	0.39	0.00
10.96	75.65	2.00	0.00	0.39	0.00	10.98	78.17	2.00	0.00	0.39	0.00
11.00	78.83	2.00	0.00	0.39	0.00	11.02	78.04	2.00	0.00	0.39	0.00
11.04	76.05	2.00	0.00	0.39	0.00	11.06	73.76	2.00	0.00	0.39	0.00
11.08	71.27	2.00	0.00	0.38	0.00	11.10	68.17	2.00	0.00	0.38	0.00
11.12	65.70	2.00	0.00	0.38	0.00	11.14	64.43	2.00	0.00	0.38	0.00
11.16	128.77	2.00	0.00	0.38	0.00	11.18	96.13	2.00	0.00	0.38	0.00
11.20	112.01	2.00	0.00	0.38	0.00	11.22	117.88	2.00	0.00	0.38	0.00
11.24	109.81	2.00	0.00	0.38	0.00	11.26	89.14	2.00	0.00	0.37	0.00
11.28	90.64	2.00	0.00	0.37	0.00	11.30	105.58	2.00	0.00	0.37	0.00
11.32	130.23	2.00	0.00	0.37	0.00	11.34	153.12	2.00	0.00	0.37	0.00
11.36	186.57	2.00	0.00	0.37	0.00	11.38	97.50	2.00	0.00	0.37	0.00
11.40	102.50	2.00	0.00	0.37	0.00	11.42	103.92	2.00	0.00	0.37	0.00
11.44	101.02	2.00	0.00	0.36	0.00	11.46	97.06	2.00	0.00	0.36	0.00
11.48	183.65	2.00	0.00	0.36	0.00	11.50	163.82	2.00	0.00	0.36	0.00
11.52	150.97	2.00	0.00	0.36	0.00	11.54	166.44	2.00	0.00	0.36	0.00
11.56	194.88	2.00	0.00	0.36	0.00	11.58	95.62	2.00	0.00	0.36	0.00
11.60	97.20	2.00	0.00	0.36	0.00	11.62	97.65	2.00	0.00	0.35	0.00
11.64	96.10	2.00	0.00	0.35	0.00	11.66	93.41	2.00	0.00	0.35	0.00
11.68	88.82	2.00	0.00	0.35	0.00	11.70	82.60	2.00	0.00	0.35	0.00
11.72	163.93	2.00	0.00	0.35	0.00	11.74	126.36	2.00	0.00	0.35	0.00
11.76	106.58	2.00	0.00	0.35	0.00	11.78	87.65	2.00	0.00	0.35	0.00
11.80	72.89	2.00	0.00	0.34	0.00	11.82	69.51	2.00	0.00	0.34	0.00
11.84	81.14	2.00	0.00	0.34	0.00	11.86	104.26	2.00	0.00	0.34	0.00
11.88	120.54	2.00	0.00	0.34	0.00	11.90	138.20	2.00	0.00	0.34	0.00
11.92	169.31	2.00	0.00	0.34	0.00	11.94	102.19	2.00	0.00	0.34	0.00
11.96	114.75	2.00	0.00	0.34	0.00	11.98	125.09	2.00	0.00	0.33	0.00
12.00	128.21	2.00	0.00	0.33	0.00	12.02	128.75	2.00	0.00	0.33	0.00
12.04	127.00	2.00	0.00	0.33	0.00	12.06	120.39	2.00	0.00	0.33	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
12.08	112.45	2.00	0.00	0.33	0.00	12.10	102.40	2.00	0.00	0.33	0.00
12.12	95.75	2.00	0.00	0.33	0.00	12.14	181.51	2.00	0.00	0.33	0.00
12.16	159.43	2.00	0.00	0.32	0.00	12.18	182.87	2.00	0.00	0.32	0.00
12.20	105.02	2.00	0.00	0.32	0.00	12.22	111.85	2.00	0.00	0.32	0.00
12.24	115.59	2.00	0.00	0.32	0.00	12.26	120.43	2.00	0.00	0.32	0.00
12.28	128.32	2.00	0.00	0.32	0.00	12.30	134.18	2.00	0.00	0.32	0.00
12.32	130.07	2.00	0.00	0.32	0.00	12.34	118.13	2.00	0.00	0.31	0.00
12.36	102.76	2.00	0.00	0.31	0.00	12.38	93.71	2.00	0.00	0.31	0.00
12.40	88.47	2.00	0.00	0.31	0.00	12.42	84.94	2.00	0.00	0.31	0.00
12.44	83.72	2.00	0.00	0.31	0.00	12.46	84.47	2.00	0.00	0.31	0.00
12.48	85.71	2.00	0.00	0.31	0.00	12.50	86.12	2.00	0.00	0.31	0.00
12.52	84.85	2.00	0.00	0.30	0.00	12.54	80.77	2.00	0.00	0.30	0.00
12.56	75.91	2.00	0.00	0.30	0.00	12.58	70.66	2.00	0.00	0.30	0.00
12.60	67.43	2.00	0.00	0.30	0.00	12.62	64.90	2.00	0.00	0.30	0.00
12.64	63.48	2.00	0.00	0.30	0.00	12.66	63.54	2.00	0.00	0.30	0.00
12.68	63.51	2.00	0.00	0.30	0.00	12.70	63.77	2.00	0.00	0.29	0.00
12.72	64.75	2.00	0.00	0.29	0.00	12.74	67.00	2.00	0.00	0.29	0.00
12.76	69.21	2.00	0.00	0.29	0.00	12.78	71.69	2.00	0.00	0.29	0.00
12.80	73.70	2.00	0.00	0.29	0.00	12.82	76.64	2.00	0.00	0.29	0.00
12.84	78.81	2.00	0.00	0.29	0.00	12.86	80.71	2.00	0.00	0.29	0.00
12.88	80.57	2.00	0.00	0.28	0.00	12.90	80.93	2.00	0.00	0.28	0.00
12.92	80.81	2.00	0.00	0.28	0.00	12.94	79.91	2.00	0.00	0.28	0.00
12.96	76.85	2.00	0.00	0.28	0.00	12.98	73.41	2.00	0.00	0.28	0.00
13.00	71.27	2.00	0.00	0.28	0.00	13.02	70.82	2.00	0.00	0.28	0.00
13.04	72.67	2.00	0.00	0.28	0.00	13.06	75.32	2.00	0.00	0.27	0.00
13.08	78.06	2.00	0.00	0.27	0.00	13.10	78.72	2.00	0.00	0.27	0.00
13.12	77.47	2.00	0.00	0.27	0.00	13.14	75.57	2.00	0.00	0.27	0.00
13.16	157.20	2.00	0.00	0.27	0.00	13.18	72.38	2.00	0.00	0.27	0.00
13.20	70.99	2.00	0.00	0.27	0.00	13.22	71.37	2.00	0.00	0.27	0.00
13.24	73.29	2.00	0.00	0.26	0.00	13.26	76.41	2.00	0.00	0.26	0.00
13.28	78.38	2.00	0.00	0.26	0.00	13.30	79.92	2.00	0.00	0.26	0.00
13.32	79.94	2.00	0.00	0.26	0.00	13.34	79.93	2.00	0.00	0.26	0.00
13.36	79.00	2.00	0.00	0.26	0.00	13.38	78.43	2.00	0.00	0.26	0.00
13.40	162.33	2.00	0.00	0.26	0.00	13.42	136.16	2.00	0.00	0.25	0.00
13.44	116.62	2.00	0.00	0.25	0.00	13.46	125.79	2.00	0.00	0.25	0.00
13.48	159.70	2.00	0.00	0.25	0.00	13.50	79.26	2.00	0.00	0.25	0.00
13.52	76.85	2.00	0.00	0.25	0.00	13.54	97.56	2.00	0.00	0.25	0.00
13.56	73.17	2.00	0.00	0.25	0.00	13.58	65.10	2.00	0.00	0.25	0.00
13.60	83.31	2.00	0.00	0.24	0.00	13.62	100.58	2.00	0.00	0.24	0.00
13.64	119.75	2.00	0.00	0.24	0.00	13.66	134.93	2.00	0.00	0.24	0.00
13.68	126.43	2.00	0.00	0.24	0.00	13.70	114.77	2.00	0.00	0.24	0.00
13.72	104.40	2.00	0.00	0.24	0.00	13.74	92.89	2.00	0.00	0.24	0.00
13.76	80.37	2.00	0.00	0.24	0.00	13.78	67.88	2.00	0.00	0.23	0.00
13.80	57.13	2.00	0.00	0.23	0.00	13.82	47.76	2.00	0.00	0.23	0.00
13.84	47.80	2.00	0.00	0.23	0.00	13.86	46.81	1.84	0.00	0.23	0.00
13.88	46.05	2.00	0.00	0.23	0.00	13.90	44.52	2.00	0.00	0.23	0.00
13.92	56.64	2.00	0.00	0.23	0.00	13.94	69.18	2.00	0.00	0.23	0.00
13.96	73.16	2.00	0.00	0.22	0.00	13.98	65.35	2.00	0.00	0.22	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
14.00	57.33	2.00	0.00	0.22	0.00	14.02	57.22	2.00	0.00	0.22	0.00
14.04	69.51	2.00	0.00	0.22	0.00	14.06	92.15	2.00	0.00	0.22	0.00
14.08	112.07	2.00	0.00	0.22	0.00	14.10	130.06	2.00	0.00	0.22	0.00
14.12	65.03	2.00	0.00	0.22	0.00	14.14	68.16	2.00	0.00	0.21	0.00
14.16	67.49	2.00	0.00	0.21	0.00	14.18	65.21	2.00	0.00	0.21	0.00
14.20	60.31	2.00	0.00	0.21	0.00	14.22	57.32	2.00	0.00	0.21	0.00
14.24	55.03	2.00	0.00	0.21	0.00	14.26	53.12	2.00	0.00	0.21	0.00
14.28	51.04	2.00	0.00	0.21	0.00	14.30	49.18	2.00	0.00	0.21	0.00
14.32	48.22	2.00	0.00	0.20	0.00	14.34	47.60	2.00	0.00	0.20	0.00
14.36	48.42	2.00	0.00	0.20	0.00	14.38	49.00	2.00	0.00	0.20	0.00
14.40	49.45	2.00	0.00	0.20	0.00	14.42	49.41	2.00	0.00	0.20	0.00
14.44	96.22	2.00	0.00	0.20	0.00	14.46	44.95	2.00	0.00	0.20	0.00
14.48	38.79	2.00	0.00	0.20	0.00	14.50	19.91	2.00	0.00	0.19	0.00
14.52	20.76	1.40	0.00	0.19	0.00	14.54	22.39	1.43	0.00	0.19	0.00
14.56	25.37	1.48	0.00	0.19	0.00	14.58	29.86	1.56	0.00	0.19	0.00
14.60	34.23	1.63	0.00	0.19	0.00	14.62	38.67	1.71	0.00	0.19	0.00
14.64	42.19	1.77	0.00	0.19	0.00	14.66	42.98	1.79	0.00	0.19	0.00
14.68	40.69	1.75	0.00	0.18	0.00	14.70	36.48	1.67	0.00	0.18	0.00
14.72	32.39	1.60	0.00	0.18	0.00	14.74	29.50	1.55	0.00	0.18	0.00
14.76	59.62	2.00	0.00	0.18	0.00	14.78	66.75	2.00	0.00	0.18	0.00
14.80	71.67	2.00	0.00	0.18	0.00	14.82	81.93	2.00	0.00	0.18	0.00
14.84	93.84	2.00	0.00	0.18	0.00	14.86	88.58	2.00	0.00	0.17	0.00
14.88	93.43	2.00	0.00	0.17	0.00	14.90	94.83	2.00	0.00	0.17	0.00
14.92	94.43	2.00	0.00	0.17	0.00	14.94	93.98	2.00	0.00	0.17	0.00
14.96	94.82	2.00	0.00	0.17	0.00	14.98	99.15	2.00	0.00	0.17	0.00
15.00	107.40	2.00	0.00	0.17	0.00	15.02	119.80	2.00	0.00	0.17	0.00
15.04	133.53	2.00	0.00	0.16	0.00	15.06	144.66	2.00	0.00	0.16	0.00
15.08	150.52	2.00	0.00	0.16	0.00	15.10	152.02	2.00	0.00	0.16	0.00
15.12	152.64	2.00	0.00	0.16	0.00	15.14	154.80	2.00	0.00	0.16	0.00
15.16	161.27	2.00	0.00	0.16	0.00	15.18	168.24	2.00	0.00	0.16	0.00
15.20	174.51	2.00	0.00	0.16	0.00	15.22	176.20	2.00	0.00	0.15	0.00
15.24	176.64	2.00	0.00	0.15	0.00	15.26	176.52	2.00	0.00	0.15	0.00
15.28	177.25	2.00	0.00	0.15	0.00	15.30	178.01	2.00	0.00	0.15	0.00
15.32	178.95	2.00	0.00	0.15	0.00	15.34	179.20	2.00	0.00	0.15	0.00
15.36	179.88	2.00	0.00	0.15	0.00	15.38	179.09	2.00	0.00	0.15	0.00
15.40	178.56	2.00	0.00	0.14	0.00	15.42	177.72	2.00	0.00	0.14	0.00
15.44	177.38	2.00	0.00	0.14	0.00	15.46	176.05	2.00	0.00	0.14	0.00
15.48	171.64	2.00	0.00	0.14	0.00	15.50	162.84	2.00	0.00	0.14	0.00
15.52	151.63	2.00	0.00	0.14	0.00	15.54	142.29	2.00	0.00	0.14	0.00
15.56	137.35	2.00	0.00	0.14	0.00	15.58	135.87	2.00	0.00	0.13	0.00
15.60	134.28	2.00	0.00	0.13	0.00	15.62	132.43	2.00	0.00	0.13	0.00
15.64	130.14	2.00	0.00	0.13	0.00	15.66	129.06	2.00	0.00	0.13	0.00
15.68	130.51	2.00	0.00	0.13	0.00	15.70	133.93	2.00	0.00	0.13	0.00
15.72	136.09	2.00	0.00	0.13	0.00	15.74	132.82	2.00	0.00	0.13	0.00
15.76	127.72	2.00	0.00	0.12	0.00	15.78	121.49	2.00	0.00	0.12	0.00
15.80	118.05	2.00	0.00	0.12	0.00	15.82	115.26	2.00	0.00	0.12	0.00
15.84	117.05	2.00	0.00	0.12	0.00	15.86	124.93	2.00	0.00	0.12	0.00
15.88	137.00	2.00	0.00	0.12	0.00	15.90	155.07	2.00	0.00	0.12	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
15.92	180.99	2.00	0.00	0.12	0.00	15.94	204.49	2.00	0.00	0.11	0.00
15.96	220.34	2.00	0.00	0.11	0.00	15.98	210.30	2.00	0.00	0.11	0.00
16.00	201.28	2.00	0.00	0.11	0.00	16.02	185.92	2.00	0.00	0.11	0.00
16.04	181.97	2.00	0.00	0.11	0.00	16.06	172.48	2.00	0.00	0.11	0.00
16.08	165.91	2.00	0.00	0.11	0.00	16.10	158.91	2.00	0.00	0.11	0.00
16.12	151.67	2.00	0.00	0.10	0.00	16.14	145.03	2.00	0.00	0.10	0.00
16.16	140.45	2.00	0.00	0.10	0.00	16.18	134.96	2.00	0.00	0.10	0.00
16.20	123.97	2.00	0.00	0.10	0.00	16.22	120.91	2.00	0.00	0.10	0.00
16.24	130.21	2.00	0.00	0.10	0.00	16.26	145.97	2.00	0.00	0.10	0.00
16.28	168.11	2.00	0.00	0.10	0.00	16.30	180.29	2.00	0.00	0.09	0.00
16.32	188.25	2.00	0.00	0.09	0.00	16.34	187.81	2.00	0.00	0.09	0.00
16.36	184.77	2.00	0.00	0.09	0.00	16.38	172.85	2.00	0.00	0.09	0.00
16.40	164.58	2.00	0.00	0.09	0.00	16.42	150.37	2.00	0.00	0.09	0.00
16.44	141.61	2.00	0.00	0.09	0.00	16.46	132.42	2.00	0.00	0.09	0.00
16.48	126.99	2.00	0.00	0.08	0.00	16.50	133.62	2.00	0.00	0.08	0.00
16.52	148.33	2.00	0.00	0.08	0.00	16.54	160.83	2.00	0.00	0.08	0.00
16.56	173.22	2.00	0.00	0.08	0.00	16.58	186.56	2.00	0.00	0.08	0.00
16.60	202.02	2.00	0.00	0.08	0.00	16.62	215.00	2.00	0.00	0.08	0.00
16.64	225.81	2.00	0.00	0.08	0.00	16.66	235.31	2.00	0.00	0.07	0.00
16.68	243.32	2.00	0.00	0.07	0.00	16.70	248.18	2.00	0.00	0.07	0.00
16.72	250.25	2.00	0.00	0.07	0.00	16.74	253.49	2.00	0.00	0.07	0.00
16.76	260.20	2.00	0.00	0.07	0.00	16.78	269.15	2.00	0.00	0.07	0.00
16.80	278.80	2.00	0.00	0.07	0.00	16.82	291.92	2.00	0.00	0.07	0.00
16.84	306.70	2.00	0.00	0.06	0.00	16.86	321.10	2.00	0.00	0.06	0.00
16.88	328.91	2.00	0.00	0.06	0.00	16.90	330.73	2.00	0.00	0.06	0.00
16.92	331.49	2.00	0.00	0.06	0.00	16.94	325.42	2.00	0.00	0.06	0.00
16.96	329.84	2.00	0.00	0.06	0.00	16.98	336.17	2.00	0.00	0.06	0.00
17.00	348.23	2.00	0.00	0.06	0.00	17.02	352.46	2.00	0.00	0.05	0.00
17.04	355.62	2.00	0.00	0.05	0.00	17.06	359.10	2.00	0.00	0.05	0.00
17.08	361.33	2.00	0.00	0.05	0.00	17.10	362.23	2.00	0.00	0.05	0.00

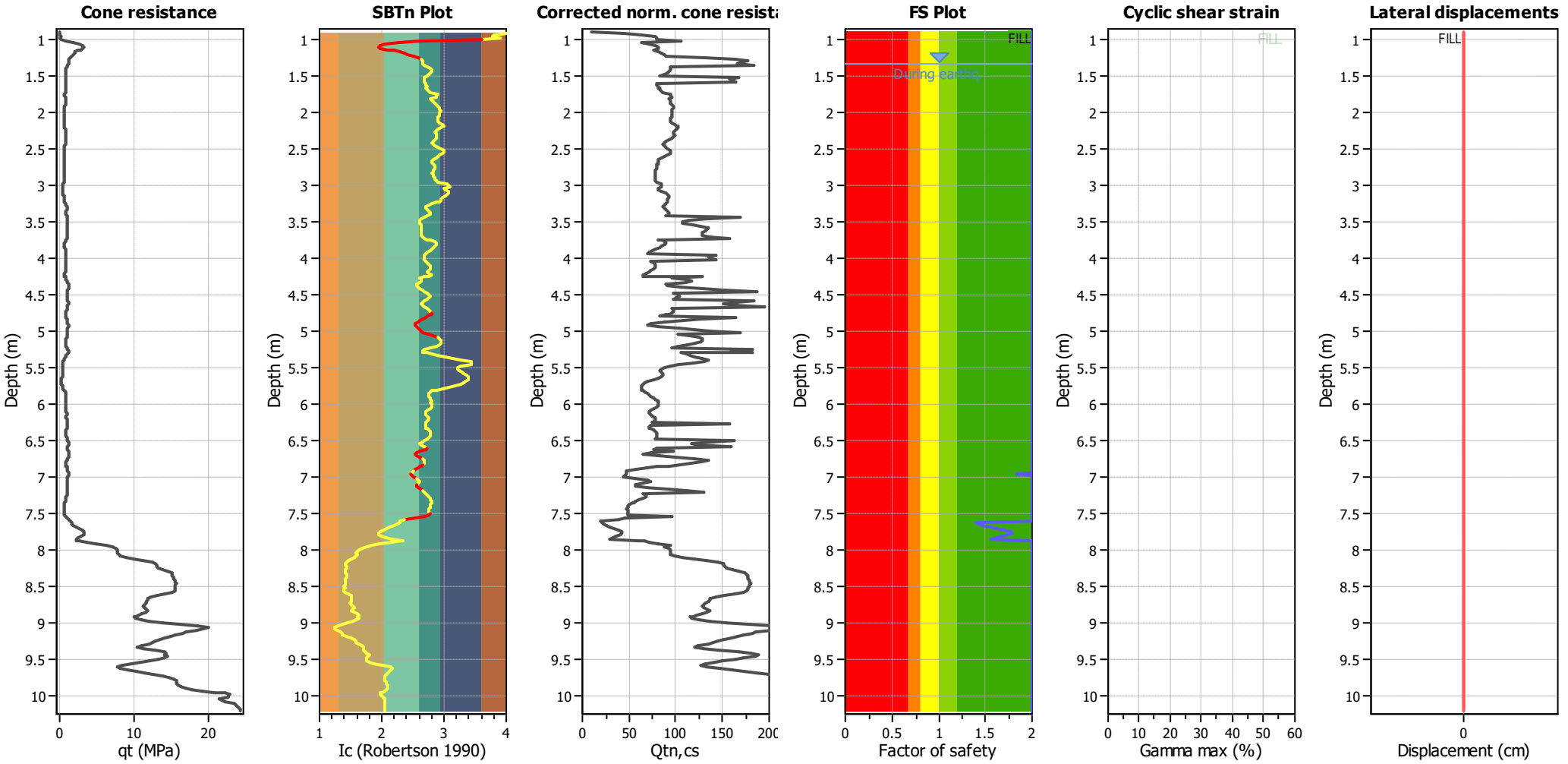
Total estimated settlement: 0.00

Abbreviations

$Q_{tn,cs}$: Equivalent clean sand normalized cone resistance
FS: Factor of safety against liquefaction
e_v (%): Post-liquefaction volumentric strain
DF: e_v depth weighting factor
Settlement: Calculated settlement

Estimation of post-earthquake lateral Displacements

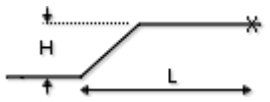
Geometric parameters: Level ground (or gently sloping) with free face (L: 41.50 m - H: 2.80 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.24	1.15	22.34	2.30	166.37	2.00	17.53	0.00	0.00
8.26	1.07	20.82	2.31	183.48	2.00	15.20	0.00	0.00
8.28	0.98	19.01	2.41	93.51	2.00	12.21	0.06	0.00
8.30	0.89	17.21	2.58	94.91	2.00	8.91	0.07	0.00
8.32	0.85	16.32	2.61	94.35	2.00	7.16	0.07	0.00
8.34	0.83	15.89	2.53	92.33	2.00	6.29	0.07	0.00
8.36	0.82	15.84	2.44	90.50	2.00	6.18	0.07	0.00
8.38	0.85	16.25	2.25	87.10	2.00	7.02	0.07	0.00
8.40	0.87	16.78	2.06	83.46	2.00	8.09	0.07	0.00
8.42	0.89	17.16	1.87	167.82	2.00	8.83	0.00	0.00
8.44	0.90	17.26	1.79	156.91	2.00	9.01	0.00	0.00
8.46	0.89	17.18	1.81	160.32	2.00	8.86	0.00	0.00
8.48	0.87	16.78	1.80	163.76	2.00	8.08	0.00	0.00
8.50	0.86	16.46	1.88	79.36	2.00	7.44	0.07	0.00
8.52	0.85	16.26	1.91	79.85	2.00	7.05	0.07	0.00
8.54	0.86	16.42	1.99	81.84	2.00	7.38	0.07	0.00
8.56	0.87	16.70	1.98	81.82	2.00	7.92	0.07	0.00
8.58	0.88	16.79	1.99	82.26	2.00	8.11	0.07	0.00
8.60	0.87	16.66	2.04	83.15	2.00	7.85	0.07	0.00
8.62	0.85	16.20	2.13	84.77	2.00	6.92	0.07	0.00
8.64	0.82	15.75	2.25	86.69	2.00	6.00	0.07	0.00
8.66	0.68	12.88	2.85	93.59	2.00	0.00	0.08	0.00
8.68	0.71	13.58	2.86	95.04	2.00	1.11	0.08	0.00
8.70	0.74	13.98	2.88	96.14	2.00	2.06	0.08	0.00
8.72	0.87	16.65	2.48	92.53	2.00	7.83	0.07	0.00
8.74	0.82	15.71	2.59	93.67	2.00	5.91	0.07	0.00
8.76	0.79	15.10	2.66	94.15	2.00	4.61	0.07	0.00
8.78	0.77	14.71	2.70	94.27	2.00	3.73	0.07	0.00
8.80	0.74	14.12	2.84	95.75	2.00	2.38	0.08	0.00
8.82	0.71	13.45	2.99	97.26	2.00	0.79	0.08	0.00
8.84	0.68	12.75	3.09	97.54	2.00	0.00	0.08	0.00
8.86	0.66	12.49	3.06	96.45	2.00	0.00	0.08	0.00
8.88	0.66	12.34	3.07	96.36	2.00	0.00	0.08	0.00
8.90	0.66	12.45	3.00	95.37	2.00	0.00	0.08	0.00
8.92	0.67	12.58	3.03	96.22	2.00	0.00	0.08	0.00
8.94	0.68	12.87	2.97	95.82	2.00	0.00	0.08	0.00
8.96	0.70	13.12	2.96	96.22	2.00	0.00	0.08	0.00
8.98	0.70	13.27	2.84	94.50	2.00	0.35	0.08	0.00
9.00	0.70	13.23	2.79	93.59	2.00	0.24	0.08	0.00
9.02	0.69	12.93	2.86	94.25	2.00	0.00	0.08	0.00
9.04	0.66	12.44	3.03	96.12	2.00	0.00	0.08	0.00
9.06	0.64	11.93	3.25	98.38	2.00	0.00	0.08	0.00
9.08	0.63	11.69	3.44	100.66	2.00	0.00	0.08	0.00
9.10	0.65	12.17	3.43	101.78	2.00	0.00	0.08	0.00
9.12	0.69	13.01	3.29	101.65	2.00	0.00	0.08	0.00
9.14	0.74	13.93	3.09	100.14	2.00	1.93	0.08	0.00
9.16	0.77	14.42	2.93	98.38	2.00	3.08	0.07	0.00
9.18	0.78	14.63	2.88	97.87	2.00	3.55	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
9.20	0.78	14.61	2.91	98.29	2.00	3.51	0.07	0.00
9.22	0.76	14.28	2.96	98.70	2.00	2.75	0.07	0.00
9.24	0.75	14.04	2.95	98.01	2.00	2.19	0.08	0.00
9.26	0.75	14.00	2.85	96.26	2.00	2.11	0.08	0.00
9.28	0.76	14.36	2.66	93.49	2.00	2.95	0.07	0.00
9.30	0.78	14.70	2.46	90.22	2.00	3.72	0.07	0.00
9.32	0.77	14.54	2.35	87.89	2.00	3.35	0.07	0.00
9.34	0.75	13.98	2.33	86.77	2.00	2.07	0.08	0.00
9.36	0.70	13.05	2.44	87.37	2.00	0.00	0.08	0.00
9.38	0.66	12.28	2.58	88.65	2.00	0.00	0.08	0.00
9.40	0.62	11.52	2.82	91.25	2.00	0.00	0.08	0.00
9.42	0.59	10.93	3.08	93.88	2.00	0.00	0.09	0.00
9.44	0.59	10.84	3.17	95.02	2.00	0.00	0.09	0.00
9.46	0.61	11.24	3.02	93.82	2.00	0.00	0.09	0.00
9.48	0.64	11.86	2.76	91.06	2.00	0.00	0.08	0.00
9.50	0.66	12.26	2.50	87.35	2.00	0.00	0.08	0.00
9.52	0.68	12.59	2.32	84.68	2.00	0.00	0.08	0.00
9.54	0.70	13.04	2.13	81.73	2.00	0.00	0.08	0.00
9.56	0.72	13.36	2.07	81.03	2.00	0.55	0.08	0.00
9.58	0.72	13.39	2.05	80.69	2.00	0.64	0.08	0.00
9.60	0.71	13.12	2.08	80.95	2.00	0.00	0.08	0.00
9.62	0.69	12.83	2.07	80.31	2.00	0.00	0.08	0.00
9.64	0.68	12.49	2.07	80.02	2.00	0.00	0.08	0.00
9.66	0.66	12.23	2.09	80.06	2.00	0.00	0.08	0.00
9.68	0.66	12.20	2.07	79.64	2.00	0.00	0.08	0.00
9.70	0.68	12.48	2.01	78.78	2.00	0.00	0.08	0.00
9.72	0.69	12.72	1.94	77.72	2.00	0.00	0.08	0.00
9.74	0.69	12.80	1.93	77.60	2.00	0.00	0.08	0.00
9.76	0.68	12.54	1.96	78.02	2.00	0.00	0.08	0.00
9.78	0.67	12.33	2.01	78.64	2.00	0.00	0.08	0.00
9.80	0.66	12.16	2.02	78.73	2.00	0.00	0.08	0.00
9.82	0.65	12.00	2.02	78.40	2.00	0.00	0.08	0.00
9.84	0.64	11.68	2.06	78.72	2.00	0.00	0.08	0.00
9.86	0.61	11.18	2.17	80.12	2.00	0.00	0.09	0.00
9.88	0.49	8.85	2.79	85.05	2.00	0.00	0.10	0.00
9.90	0.47	8.36	2.90	85.23	2.00	0.00	0.10	0.00
9.92	0.45	7.92	2.93	84.36	2.00	0.00	0.10	0.00
9.94	0.51	9.19	2.43	80.69	2.00	0.00	0.09	0.00
9.96	0.49	8.70	2.59	81.97	2.00	0.00	0.10	0.00
9.98	0.48	8.44	2.87	85.12	2.00	0.00	0.10	0.00
10.00	0.49	8.64	3.10	88.76	2.00	0.00	0.10	0.00
10.02	0.52	9.32	3.17	91.69	2.00	0.00	0.09	0.00
10.04	0.57	10.21	3.06	92.57	2.00	0.00	0.09	0.00
10.06	0.60	10.95	2.91	92.23	2.00	0.00	0.09	0.00
10.08	0.62	11.31	2.83	91.75	2.00	0.00	0.09	0.00
10.10	0.64	11.59	2.80	91.75	2.00	0.00	0.08	0.00
10.12	0.67	12.15	2.71	91.44	2.00	0.00	0.08	0.00
10.14	0.71	13.12	2.58	90.87	2.00	0.00	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
10.16	0.80	14.80	2.35	89.04	2.00	3.95	0.07	0.00
10.18	0.88	16.42	2.19	87.48	2.00	7.36	0.07	0.00
10.20	0.96	17.88	2.06	86.10	2.00	10.18	0.06	0.00
10.22	0.98	18.26	2.10	87.23	2.00	10.88	0.06	0.00
10.24	0.97	18.07	2.19	89.28	2.00	10.52	0.06	0.00
10.26	0.93	17.31	2.33	91.57	2.00	9.12	0.07	0.00
10.28	0.90	16.80	2.42	92.99	2.00	8.12	0.07	0.00
10.30	0.91	16.92	2.40	92.70	2.00	8.36	0.07	0.00
10.32	0.95	17.70	2.20	89.11	2.00	9.85	0.07	0.00
10.34	1.00	18.67	1.95	169.05	2.00	11.61	0.00	0.00
10.36	1.04	19.43	1.73	132.70	2.00	12.93	0.00	0.00
10.38	1.05	19.74	1.59	114.28	2.00	13.45	0.00	0.00
10.40	1.05	19.56	1.51	106.76	2.00	13.15	0.00	0.00
10.42	1.02	19.07	1.47	106.79	2.00	12.31	0.00	0.00
10.44	1.00	18.65	1.54	118.02	2.00	11.57	0.00	0.00
10.46	0.99	18.50	1.61	127.53	2.00	11.31	0.00	0.00
10.48	1.00	18.59	1.67	134.72	2.00	11.47	0.00	0.00
10.50	1.02	18.98	1.69	132.97	2.00	12.15	0.00	0.00
10.52	1.03	19.21	1.70	131.91	2.00	12.56	0.00	0.00
10.54	1.04	19.44	1.69	128.40	2.00	12.94	0.00	0.00
10.56	1.03	19.25	1.67	128.48	2.00	12.62	0.00	0.00
10.58	1.02	19.09	1.65	127.77	2.00	12.34	0.00	0.00
10.60	0.99	18.43	1.68	137.16	2.00	11.19	0.00	0.00
10.62	0.95	17.58	1.76	157.51	2.00	9.62	0.00	0.00
10.64	0.88	16.22	1.93	81.92	2.00	6.96	0.07	0.00
10.66	0.81	14.92	2.14	85.37	2.00	4.21	0.07	0.00
10.68	0.75	13.68	2.35	87.98	2.00	1.33	0.08	0.00
10.70	0.71	12.87	2.47	89.15	2.00	0.00	0.08	0.00
10.72	0.70	12.65	2.45	88.30	2.00	0.00	0.08	0.00
10.74	0.71	12.91	2.26	85.31	2.00	0.00	0.08	0.00
10.76	0.73	13.25	2.08	82.13	2.00	0.28	0.08	0.00
10.78	0.74	13.48	1.86	77.92	2.00	0.86	0.08	0.00
10.80	0.75	13.62	1.73	75.18	2.00	1.20	0.08	0.00
10.82	0.77	14.06	1.56	71.90	2.00	2.26	0.08	0.00
10.84	0.80	14.54	1.47	70.14	2.00	3.36	0.07	0.00
10.86	0.82	14.97	1.41	142.63	2.00	4.31	0.00	0.00
10.88	0.84	15.32	1.38	134.87	2.00	5.08	0.00	0.00
10.90	0.85	15.56	1.41	136.20	2.00	5.59	0.00	0.00
10.92	0.86	15.68	1.47	142.44	2.00	5.85	0.00	0.00
10.94	0.84	15.39	1.57	73.12	2.00	5.23	0.07	0.00
10.96	0.82	14.87	1.69	75.65	2.00	4.10	0.07	0.00
10.98	0.79	14.30	1.83	78.17	2.00	2.81	0.07	0.00
11.00	0.77	13.90	1.87	78.83	2.00	1.87	0.08	0.00
11.02	0.76	13.75	1.84	78.04	2.00	1.52	0.08	0.00
11.04	0.76	13.69	1.75	76.05	2.00	1.36	0.08	0.00
11.06	0.77	13.96	1.64	73.76	2.00	2.01	0.08	0.00
11.08	0.79	14.34	1.52	71.27	2.00	2.90	0.07	0.00
11.10	0.72	12.83	1.43	68.17	2.00	0.00	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
11.12	0.63	11.04	1.39	65.70	2.00	0.00	0.09	0.00
11.14	0.66	11.79	1.31	64.43	2.00	0.00	0.08	0.00
11.16	0.80	14.47	1.25	128.77	2.00	3.19	0.00	0.00
11.18	0.94	17.15	1.22	96.13	2.00	8.80	0.00	0.00
11.20	0.93	17.12	1.35	112.01	2.00	8.75	0.00	0.00
11.22	0.98	17.94	1.46	117.88	2.00	10.29	0.00	0.00
11.24	1.06	19.65	1.52	109.81	2.00	13.30	0.00	0.00
11.26	1.17	21.69	1.46	89.14	2.00	16.55	0.00	0.00
11.28	1.20	22.28	1.51	90.64	2.00	17.44	0.00	0.00
11.30	1.18	21.96	1.64	105.58	2.00	16.97	0.00	0.00
11.32	1.15	21.30	1.82	130.23	2.00	15.96	0.00	0.00
11.34	1.13	20.91	1.98	153.12	2.00	15.34	0.00	0.00
11.36	1.10	20.26	2.19	186.57	2.00	14.30	0.00	0.00
11.38	1.06	19.60	2.45	97.50	2.00	13.22	0.06	0.00
11.40	1.03	18.93	2.70	102.50	2.00	12.06	0.06	0.00
11.42	1.01	18.56	2.79	103.92	2.00	11.40	0.06	0.00
11.44	1.02	18.72	2.64	101.02	2.00	11.69	0.06	0.00
11.46	1.06	19.43	2.43	97.06	2.00	12.93	0.06	0.00
11.48	1.11	20.57	2.19	183.65	2.00	14.80	0.00	0.00
11.50	1.15	21.20	2.09	163.82	2.00	15.80	0.00	0.00
11.52	1.16	21.49	2.01	150.97	2.00	16.24	0.00	0.00
11.54	1.13	20.90	2.08	166.44	2.00	15.32	0.00	0.00
11.56	1.09	20.01	2.22	194.88	2.00	13.89	0.00	0.00
11.58	1.03	18.91	2.38	95.62	2.00	12.02	0.06	0.00
11.60	0.98	17.94	2.50	97.20	2.00	10.28	0.06	0.00
11.62	0.93	16.98	2.57	97.65	2.00	8.48	0.07	0.00
11.64	0.90	16.29	2.54	96.10	2.00	7.11	0.07	0.00
11.66	0.88	15.91	2.43	93.41	2.00	6.32	0.07	0.00
11.68	0.88	15.86	2.21	88.82	2.00	6.23	0.07	0.00
11.70	0.89	16.07	1.93	82.60	2.00	6.65	0.07	0.00
11.72	0.91	16.44	1.67	163.93	2.00	7.41	0.00	0.00
11.74	0.94	17.11	1.45	126.36	2.00	8.73	0.00	0.00
11.76	0.98	17.85	1.35	106.58	2.00	10.13	0.00	0.00
11.78	1.06	19.09	1.27	87.65	2.00	12.33	0.00	0.00
11.80	1.13	20.19	1.19	72.89	2.00	14.20	0.00	0.00
11.82	1.18	21.00	1.20	69.51	2.00	15.48	0.00	0.00
11.84	1.17	20.93	1.32	81.14	2.00	15.38	0.00	0.00
11.86	1.14	20.56	1.52	104.26	2.00	14.79	0.00	0.00
11.88	1.14	20.61	1.67	120.54	2.00	14.88	0.00	0.00
11.90	1.13	20.59	1.82	138.20	2.00	14.84	0.00	0.00
11.92	1.11	20.28	2.04	169.31	2.00	14.33	0.00	0.00
11.94	1.05	19.10	2.65	102.19	2.00	12.36	0.06	0.00
11.96	0.99	18.03	3.33	114.75	2.00	10.46	0.06	0.00
11.98	0.95	17.20	3.96	125.09	2.00	8.90	0.07	0.00
12.00	0.92	16.53	4.22	128.21	2.00	7.59	0.07	0.00
12.02	0.89	15.96	4.33	128.75	2.00	6.43	0.07	0.00
12.04	0.87	15.57	4.28	127.00	2.00	5.61	0.07	0.00
12.06	0.84	15.02	3.95	120.39	2.00	4.43	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
12.08	0.81	14.46	3.54	112.45	2.00	3.18	0.07	0.00
12.10	0.85	15.09	2.92	102.40	2.00	4.58	0.07	0.00
12.12	0.94	16.85	2.47	95.75	2.00	8.23	0.07	0.00
12.14	1.09	19.45	2.06	181.51	2.00	12.96	0.00	0.00
12.16	1.19	21.09	2.03	159.43	2.00	15.63	0.00	0.00
12.18	1.22	21.58	2.25	182.87	2.00	16.39	0.00	0.00
12.20	1.15	20.64	2.70	105.02	2.00	14.91	0.06	0.00
12.22	1.02	18.43	3.14	111.85	2.00	11.19	0.06	0.00
12.24	0.89	15.94	3.55	115.59	2.00	6.39	0.07	0.00
12.26	0.75	13.17	4.22	120.43	2.00	0.08	0.08	0.00
12.28	0.64	10.96	5.34	128.32	2.00	0.00	0.09	0.00
12.30	0.56	9.37	6.49	134.18	2.00	0.00	0.09	0.00
12.32	0.43	6.84	7.62	130.07	2.00	0.00	0.11	0.00
12.34	0.39	6.04	6.77	118.13	2.00	0.00	0.11	0.00
12.36	0.36	5.39	5.38	102.76	2.00	0.00	0.12	0.00
12.38	0.42	6.52	3.84	93.71	2.00	0.00	0.11	0.00
12.40	0.43	6.67	3.32	88.47	2.00	0.00	0.11	0.00
12.42	0.42	6.53	3.06	84.94	2.00	0.00	0.11	0.00
12.44	0.40	6.17	3.06	83.72	2.00	0.00	0.11	0.00
12.46	0.38	5.75	3.27	84.47	2.00	0.00	0.12	0.00
12.48	0.36	5.37	3.53	85.71	2.00	0.00	0.12	0.00
12.50	0.34	5.02	3.73	86.12	2.00	0.00	0.12	0.00
12.52	0.33	4.72	3.75	84.85	2.00	0.00	0.13	0.00
12.54	0.32	4.50	3.44	80.77	2.00	0.00	0.13	0.00
12.56	0.31	4.35	3.02	75.91	2.00	0.00	0.13	0.00
12.58	0.31	4.25	2.56	70.66	2.00	0.00	0.13	0.00
12.60	0.31	4.25	2.27	67.43	2.00	0.00	0.13	0.00
12.62	0.32	4.54	1.97	64.90	2.00	0.00	0.13	0.00
12.64	0.35	5.16	1.73	63.48	2.00	0.00	0.12	0.00
12.66	0.41	6.16	1.57	63.54	2.00	0.00	0.11	0.00
12.68	0.48	7.56	1.42	63.51	2.00	0.00	0.10	0.00
12.70	0.57	9.14	1.34	63.77	2.00	0.00	0.10	0.00
12.72	0.67	10.88	1.31	64.75	2.00	0.00	0.09	0.00
12.74	0.76	12.24	1.36	67.00	2.00	0.00	0.08	0.00
12.76	0.81	13.19	1.43	69.21	2.00	0.13	0.08	0.00
12.78	0.84	13.63	1.52	71.69	2.00	1.23	0.08	0.00
12.80	0.85	13.86	1.60	73.70	2.00	1.77	0.08	0.00
12.82	0.85	13.92	1.72	76.64	2.00	1.92	0.08	0.00
12.84	0.86	13.95	1.82	78.81	2.00	1.99	0.08	0.00
12.86	0.86	13.96	1.90	80.71	2.00	2.00	0.08	0.00
12.88	0.86	14.02	1.89	80.57	2.00	2.15	0.08	0.00
12.90	0.86	13.97	1.91	80.93	2.00	2.04	0.08	0.00
12.92	0.85	13.81	1.91	80.81	2.00	1.67	0.08	0.00
12.94	0.85	13.73	1.87	79.91	2.00	1.45	0.08	0.00
12.96	0.86	13.83	1.73	76.85	2.00	1.70	0.08	0.00
12.98	0.89	14.24	1.57	73.41	2.00	2.66	0.07	0.00
13.00	0.92	14.61	1.47	71.27	2.00	3.51	0.07	0.00
13.02	0.94	14.85	1.45	70.82	2.00	4.04	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
13.04	0.94	14.90	1.52	72.67	2.00	4.17	0.07	0.00
13.06	0.93	14.67	1.64	75.32	2.00	3.65	0.07	0.00
13.08	0.92	14.64	1.75	78.06	2.00	3.59	0.07	0.00
13.10	0.94	14.87	1.78	78.72	2.00	4.10	0.07	0.00
13.12	0.99	15.57	1.70	77.47	2.00	5.61	0.07	0.00
13.14	1.01	15.91	1.61	75.57	2.00	6.33	0.07	0.00
13.16	1.01	15.78	1.54	157.20	2.00	6.05	0.00	0.00
13.18	0.98	15.31	1.50	72.38	2.00	5.06	0.07	0.00
13.20	0.96	14.96	1.45	70.99	2.00	4.30	0.07	0.00
13.22	0.95	14.72	1.47	71.37	2.00	3.77	0.07	0.00
13.24	0.94	14.49	1.56	73.29	2.00	3.25	0.07	0.00
13.26	0.92	14.19	1.70	76.41	2.00	2.55	0.08	0.00
13.28	0.90	14.00	1.79	78.38	2.00	2.11	0.08	0.00
13.30	0.90	13.93	1.86	79.92	2.00	1.95	0.08	0.00
13.32	0.91	14.04	1.86	79.94	2.00	2.20	0.08	0.00
13.34	0.93	14.33	1.85	79.93	2.00	2.88	0.07	0.00
13.36	0.96	14.74	1.79	79.00	2.00	3.81	0.07	0.00
13.38	0.99	15.22	1.75	78.43	2.00	4.86	0.07	0.00
13.40	1.08	16.47	1.64	162.33	2.00	7.46	0.00	0.00
13.42	1.16	17.74	1.56	136.16	2.00	9.93	0.00	0.00
13.44	1.24	18.74	1.49	116.62	2.00	11.72	0.00	0.00
13.46	1.21	18.27	1.53	125.79	2.00	10.90	0.00	0.00
13.48	1.13	17.20	1.69	159.70	2.00	8.90	0.00	0.00
13.50	1.06	16.12	1.75	79.26	2.00	6.75	0.07	0.00
13.52	1.05	15.90	1.66	76.85	2.00	6.31	0.07	0.00
13.54	1.15	17.06	1.20	97.56	2.00	8.63	0.00	0.00
13.56	1.23	18.14	1.05	73.17	2.00	10.65	0.00	0.00
13.58	1.29	18.96	1.02	65.10	2.00	12.11	0.00	0.00
13.60	1.27	18.70	1.18	83.31	2.00	11.66	0.00	0.00
13.62	1.18	17.39	1.25	100.58	2.00	9.26	0.00	0.00
13.64	1.06	15.63	1.26	119.75	2.00	5.74	0.00	0.00
13.66	0.95	13.94	1.21	134.93	2.00	1.97	0.00	0.00
13.68	0.93	13.55	1.12	126.43	2.00	1.02	0.00	0.00
13.70	0.93	13.47	1.03	114.77	2.00	0.83	0.00	0.00
13.72	0.93	13.35	0.95	104.40	2.00	0.53	0.00	0.00
13.74	0.93	13.32	0.87	92.89	2.00	0.45	0.00	0.00
13.76	0.95	13.56	0.79	80.37	2.00	1.06	0.00	0.00
13.78	1.01	14.27	0.74	67.88	2.00	2.75	0.00	0.00
13.80	1.07	15.09	0.69	57.13	2.00	4.58	0.00	0.00
13.82	1.13	16.01	0.65	47.76	2.00	6.53	0.00	0.00
13.84	1.17	16.53	0.62	47.80	2.00	7.58	0.00	0.00
13.86	1.19	16.70	0.59	46.81	1.84	7.93	0.00	0.00
13.88	1.16	16.28	0.57	46.05	2.00	7.09	0.00	0.00
13.90	1.11	15.57	0.59	44.52	2.00	5.62	0.00	0.00
13.92	1.04	14.53	0.65	56.64	2.00	3.34	0.00	0.00
13.94	0.98	13.71	0.71	69.18	2.00	1.41	0.00	0.00
13.96	0.96	13.44	0.72	73.16	2.00	0.75	0.00	0.00
13.98	0.99	13.79	0.68	65.35	2.00	1.60	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
14.00	1.03	14.25	0.64	57.33	2.00	2.70	0.00	0.00
14.02	1.04	14.38	0.65	57.22	2.00	2.98	0.00	0.00
14.04	1.02	14.09	0.74	69.51	2.00	2.31	0.00	0.00
14.06	0.98	13.59	0.88	92.15	2.00	1.13	0.00	0.00
14.08	0.96	13.42	1.01	112.07	2.00	0.72	0.00	0.00
14.10	0.97	13.53	1.14	130.06	2.00	0.98	0.00	0.00
14.12	0.98	13.68	1.24	65.03	2.00	1.34	0.08	0.00
14.14	0.95	13.37	1.37	68.16	2.00	0.60	0.08	0.00
14.16	0.90	12.58	1.36	67.49	2.00	0.00	0.08	0.00
14.18	0.83	11.53	1.30	65.21	2.00	0.00	0.08	0.00
14.20	0.78	10.59	1.12	60.31	2.00	0.00	0.09	0.00
14.22	0.73	9.92	1.01	57.32	2.00	0.00	0.09	0.00
14.24	0.71	9.52	0.93	55.03	2.00	0.00	0.09	0.00
14.26	0.69	9.16	0.86	53.12	2.00	0.00	0.10	0.00
14.28	0.68	8.90	0.79	51.04	2.00	0.00	0.10	0.00
14.30	0.67	8.78	0.72	49.18	2.00	0.00	0.10	0.00
14.32	0.67	8.75	0.68	48.22	2.00	0.00	0.10	0.00
14.34	0.67	8.77	0.66	47.60	2.00	0.00	0.10	0.00
14.36	0.68	8.86	0.69	48.42	2.00	0.00	0.10	0.00
14.38	0.69	9.00	0.71	49.00	2.00	0.00	0.10	0.00
14.40	0.69	9.03	0.72	49.45	2.00	0.00	0.10	0.00
14.42	0.70	9.12	0.72	49.41	2.00	0.00	0.10	0.00
14.44	0.79	10.37	0.63	96.22	2.00	0.00	0.00	0.00
14.46	1.01	13.39	0.47	44.95	2.00	0.64	0.00	0.00
14.48	1.30	17.20	0.35	38.79	2.00	8.90	0.00	0.00
14.50	1.51	19.91	0.33	19.91	2.00	13.73	0.00	0.00
14.52	1.58	20.76	0.34	20.76	1.40	15.12	0.00	0.00
14.54	1.70	22.39	0.32	22.39	1.43	17.60	0.00	0.00
14.56	1.94	25.37	0.30	25.37	1.48	21.73	0.00	0.00
14.58	2.29	29.86	0.30	29.86	1.56	27.10	0.00	0.00
14.60	2.63	34.23	0.32	34.23	1.63	31.62	0.00	0.00
14.62	2.99	38.67	0.32	38.67	1.71	35.64	0.00	0.00
14.64	3.28	42.19	0.31	42.19	1.77	38.51	0.00	0.00
14.66	3.35	42.98	0.28	42.98	1.79	39.13	0.00	0.00
14.68	3.19	40.69	0.24	40.69	1.75	37.32	0.00	0.00
14.70	2.85	36.48	0.22	36.48	1.67	33.72	0.00	0.00
14.72	2.52	32.39	0.26	32.39	1.60	29.79	0.00	0.00
14.74	2.27	29.50	0.41	29.50	1.55	26.70	0.00	0.00
14.76	2.18	29.06	0.88	59.62	2.00	26.21	0.00	0.00
14.78	2.59	34.65	1.02	66.75	2.00	32.01	0.00	0.00
14.80	3.60	47.36	0.91	71.67	2.00	42.33	0.00	0.00
14.82	5.00	64.18	0.64	81.93	2.00	52.36	0.00	0.00
14.84	6.26	78.89	0.52	93.84	2.00	59.17	0.00	0.00
14.86	7.12	88.58	0.44	88.58	2.00	63.00	0.00	0.00
14.88	7.59	93.43	0.36	93.43	2.00	64.76	0.00	0.00
14.90	7.79	94.83	0.27	94.83	2.00	65.25	0.00	0.00
14.92	7.81	94.43	0.22	94.43	2.00	65.11	0.00	0.00
14.94	7.79	93.98	0.21	93.98	2.00	64.95	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
14.96	7.85	94.82	0.23	94.82	2.00	65.24	0.00	0.00
14.98	8.23	99.15	0.24	99.15	2.00	66.72	0.00	0.00
15.00	8.97	107.40	0.23	107.40	2.00	69.36	0.00	0.00
15.02	10.06	119.80	0.24	119.80	2.00	72.96	0.00	0.00
15.04	11.30	133.53	0.24	133.53	2.00	76.54	0.00	0.00
15.06	12.32	144.66	0.23	144.66	2.00	79.19	0.00	0.00
15.08	12.87	150.52	0.22	150.52	2.00	80.50	0.00	0.00
15.10	13.00	152.02	0.23	152.02	2.00	80.82	0.00	0.00
15.12	13.03	152.64	0.25	152.64	2.00	80.96	0.00	0.00
15.14	13.23	154.80	0.26	154.80	2.00	81.42	0.00	0.00
15.16	13.81	161.27	0.27	161.27	2.00	82.77	0.00	0.00
15.18	14.43	168.24	0.28	168.24	2.00	84.17	0.00	0.00
15.20	14.98	174.51	0.31	174.51	2.00	85.38	0.00	0.00
15.22	15.10	176.20	0.33	176.20	2.00	85.70	0.00	0.00
15.24	15.15	176.64	0.34	176.64	2.00	85.78	0.00	0.00
15.26	15.17	176.52	0.33	176.52	2.00	85.76	0.00	0.00
15.28	15.28	177.25	0.31	177.25	2.00	85.89	0.00	0.00
15.30	15.36	178.01	0.32	178.01	2.00	86.03	0.00	0.00
15.32	15.47	178.95	0.31	178.95	2.00	86.21	0.00	0.00
15.34	15.48	179.20	0.32	179.20	2.00	86.25	0.00	0.00
15.36	15.58	179.88	0.31	179.88	2.00	86.38	0.00	0.00
15.38	15.53	179.09	0.31	179.09	2.00	86.23	0.00	0.00
15.40	15.52	178.56	0.30	178.56	2.00	86.14	0.00	0.00
15.42	15.46	177.72	0.30	177.72	2.00	85.98	0.00	0.00
15.44	15.45	177.38	0.29	177.38	2.00	85.92	0.00	0.00
15.46	15.37	176.05	0.28	176.05	2.00	85.67	0.00	0.00
15.48	14.97	171.64	0.29	171.64	2.00	84.83	0.00	0.00
15.50	14.11	162.84	0.34	162.84	2.00	83.09	0.00	0.00
15.52	13.10	151.63	0.35	151.63	2.00	80.74	0.00	0.00
15.54	12.29	142.29	0.34	142.29	2.00	78.64	0.00	0.00
15.56	11.90	137.35	0.30	137.35	2.00	77.48	0.00	0.00
15.58	11.77	135.87	0.30	135.87	2.00	77.12	0.00	0.00
15.60	11.65	134.28	0.30	134.28	2.00	76.73	0.00	0.00
15.62	11.52	132.43	0.27	132.43	2.00	76.27	0.00	0.00
15.64	11.34	130.14	0.26	130.14	2.00	75.70	0.00	0.00
15.66	11.20	129.06	0.31	129.06	2.00	75.42	0.00	0.00
15.68	11.30	130.51	0.35	130.51	2.00	75.79	0.00	0.00
15.70	11.64	133.93	0.34	133.93	2.00	76.64	0.00	0.00
15.72	11.86	136.09	0.32	136.09	2.00	77.17	0.00	0.00
15.74	11.53	132.82	0.37	132.82	2.00	76.37	0.00	0.00
15.76	11.05	127.72	0.41	127.72	2.00	75.08	0.00	0.00
15.78	10.50	121.49	0.42	121.49	2.00	73.43	0.00	0.00
15.80	10.24	118.05	0.37	118.05	2.00	72.48	0.00	0.00
15.82	9.98	115.26	0.39	115.26	2.00	71.69	0.00	0.00
15.84	10.15	117.05	0.40	117.05	2.00	72.20	0.00	0.00
15.86	10.89	124.93	0.37	124.93	2.00	74.35	0.00	0.00
15.88	12.03	137.00	0.33	137.00	2.00	77.39	0.00	0.00
15.90	13.76	155.07	0.28	155.07	2.00	81.48	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
15.92	16.23	180.99	0.24	180.99	2.00	86.58	0.00	0.00
15.94	18.50	204.49	0.21	204.49	2.00	90.61	0.00	0.00
15.96	20.03	220.34	0.20	220.34	2.00	93.08	0.00	0.00
15.98	19.12	210.30	0.19	210.30	2.00	91.54	0.00	0.00
16.00	18.25	201.28	0.21	201.28	2.00	90.09	0.00	0.00
16.02	16.79	185.92	0.23	185.92	2.00	87.47	0.00	0.00
16.04	16.40	181.97	0.25	181.97	2.00	86.76	0.00	0.00
16.06	15.55	172.48	0.23	172.48	2.00	84.99	0.00	0.00
16.08	14.84	165.91	0.32	165.91	2.00	83.71	0.00	0.00
16.10	14.13	158.91	0.39	158.91	2.00	82.29	0.00	0.00
16.12	13.42	151.67	0.47	151.67	2.00	80.75	0.00	0.00
16.14	12.84	145.03	0.45	145.03	2.00	79.27	0.00	0.00
16.16	12.43	140.45	0.45	140.45	2.00	78.21	0.00	0.00
16.18	11.92	134.96	0.50	134.96	2.00	76.90	0.00	0.00
16.20	10.91	123.97	0.55	123.97	2.00	74.09	0.00	0.00
16.22	10.34	117.76	0.59	120.91	2.00	72.39	0.00	0.00
16.24	11.17	127.20	0.65	130.21	2.00	74.94	0.00	0.00
16.26	12.83	145.97	0.75	145.97	2.00	79.48	0.00	0.00
16.28	14.02	159.84	0.90	168.11	2.00	82.48	0.00	0.00
16.30	14.18	162.16	1.04	180.29	2.00	82.96	0.00	0.00
16.32	14.13	161.99	1.18	188.25	2.00	82.92	0.00	0.00
16.34	14.28	163.32	1.15	187.81	2.00	83.19	0.00	0.00
16.36	14.36	163.70	1.09	184.77	2.00	83.27	0.00	0.00
16.38	14.14	160.34	0.95	172.85	2.00	82.58	0.00	0.00
16.40	13.30	150.68	0.92	164.58	2.00	80.53	0.00	0.00
16.42	12.10	136.78	0.83	150.37	2.00	77.34	0.00	0.00
16.44	10.83	122.60	0.85	141.61	2.00	73.73	0.00	0.00
16.46	9.53	108.38	0.96	132.42	2.00	69.66	0.00	0.00
16.48	8.30	95.42	1.40	126.99	2.00	65.45	0.00	0.00
16.50	7.78	90.08	1.91	133.62	2.00	63.55	0.00	0.00
16.52	8.19	95.19	2.27	148.33	2.00	65.37	0.00	0.00
16.54	9.25	107.22	2.33	160.83	2.00	69.30	0.00	0.00
16.56	10.34	119.52	2.35	173.22	2.00	72.88	0.00	0.00
16.58	11.45	132.03	2.39	186.56	2.00	76.17	0.00	0.00
16.60	12.68	145.80	2.44	202.02	2.00	79.45	0.00	0.00
16.62	13.80	158.26	2.44	215.00	2.00	82.15	0.00	0.00
16.64	14.67	167.84	2.47	225.81	2.00	84.09	0.00	0.00
16.66	15.22	173.97	2.59	235.31	2.00	85.28	0.00	0.00
16.68	15.64	178.66	2.71	243.32	2.00	86.15	0.00	0.00
16.70	15.75	179.75	2.84	248.18	2.00	86.36	0.00	0.00
16.72	15.74	179.47	2.93	250.25	2.00	86.30	0.00	0.00
16.74	15.88	180.83	2.99	253.49	2.00	86.55	0.00	0.00
16.76	16.25	184.79	3.07	260.20	2.00	87.27	0.00	0.00
16.78	16.88	191.60	3.13	269.15	2.00	88.46	0.00	0.00
16.80	17.63	199.78	3.16	278.80	2.00	89.84	0.00	0.00
16.82	19.12	215.70	3.03	291.92	2.00	92.37	0.00	0.00
16.84	20.71	232.78	2.88	306.70	2.00	94.89	0.00	0.00
16.86	22.15	248.06	2.78	321.10	2.00	96.99	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
16.88	22.73	254.05	2.83	328.91	2.00	97.77	0.00	0.00
16.90	22.64	252.94	2.94	330.73	2.00	97.63	0.00	0.00
16.92	22.48	250.93	3.06	331.49	2.00	97.37	0.00	0.00
16.94	21.43	239.37	3.29	325.42	2.00	95.81	0.00	0.00
16.96	21.75	242.55	3.32	329.84	2.00	96.25	0.00	0.00
16.98	22.11	246.16	3.40	336.17	2.00	96.73	0.00	0.00
17.00	23.35	259.28	3.32	348.23	2.00	98.45	0.00	0.00
17.02	23.58	261.42	3.38	352.46	2.00	98.72	0.00	0.00
17.04	23.82	263.59	3.40	355.62	2.00	98.99	0.00	0.00
17.06	24.06	265.84	3.44	359.10	2.00	99.27	0.00	0.00
17.08	24.17	266.62	3.48	361.33	2.00	99.37	0.00	0.00
17.10	24.20	266.55	3.51	362.23	2.00	99.36	0.00	0.00

Total estimated displacement: 0.00

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.80	0.02	0.18	54.25	9.82	4.06	0.00	0.05
7.82	0.06	0.94	48.66	45.85	3.99	0.00	0.27
7.84	0.10	1.77	35.64	63.18	3.81	0.04	0.50
7.86	0.13	2.25	34.35	77.39	3.79	0.07	0.62
7.88	0.11	1.95	40.95	79.72	3.89	0.08	0.52
7.90	0.17	3.14	25.54	80.17	3.61	0.06	0.82
7.92	0.92	17.97	3.86	69.31	2.61	0.76	0.76
7.94	1.79	35.09	1.79	62.98	2.26	0.14	0.66
7.96	2.75	53.93	1.34	72.36	2.04	0.31	0.69
7.98	3.11	61.10	1.28	78.50	1.97	0.52	0.70
8.00	3.27	64.33	1.27	81.51	1.95	0.66	0.71
8.02	3.16	62.10	1.30	80.53	1.99	0.61	0.71
8.04	2.77	54.31	1.41	76.34	2.09	0.43	0.70
8.06	2.42	47.44	1.63	77.20	2.21	0.46	0.70
8.08	2.14	41.85	1.94	81.22	2.30	0.65	0.71
8.10	1.99	38.86	2.17	84.47	2.36	0.72	0.72
8.12	1.80	35.27	2.50	88.21	2.42	0.72	0.72
8.14	1.60	31.22	3.00	93.73	2.50	0.73	0.73
8.16	1.41	27.38	3.60	98.59	2.58	0.80	0.80
8.18	1.27	24.80	4.04	100.17	2.63	0.85	0.85
8.20	1.20	23.39	4.23	98.99	2.65	0.86	0.86
8.22	1.18	22.91	4.19	96.11	2.65	0.85	0.85
8.24	1.15	22.34	4.21	93.99	2.65	0.85	0.85
8.26	1.07	20.82	4.47	93.03	2.68	0.87	0.87
8.28	0.98	19.01	4.92	93.51	2.72	0.74	0.74
8.30	0.89	17.21	5.52	94.91	2.77	0.74	0.74
8.32	0.85	16.32	5.78	94.35	2.79	0.74	0.74
8.34	0.83	15.89	5.81	92.33	2.80	0.73	0.73
8.36	0.82	15.84	5.71	90.50	2.79	0.73	0.73
8.38	0.85	16.25	5.36	87.10	2.76	0.72	0.72
8.40	0.87	16.78	4.97	83.46	2.72	0.71	0.71
8.42	0.89	17.16	4.64	79.61	2.69	0.85	0.85
8.44	0.90	17.26	4.52	77.99	2.68	0.84	0.84
8.46	0.89	17.18	4.56	78.37	2.69	0.84	0.84
8.48	0.87	16.78	4.64	77.78	2.69	0.84	0.84
8.50	0.86	16.46	4.82	79.36	2.71	0.55	0.71
8.52	0.85	16.26	4.91	79.85	2.72	0.58	0.71
8.54	0.86	16.42	4.98	81.84	2.73	0.68	0.71
8.56	0.87	16.70	4.90	81.82	2.72	0.68	0.71
8.58	0.88	16.79	4.90	82.26	2.72	0.71	0.71
8.60	0.87	16.66	4.99	83.15	2.73	0.71	0.71
8.62	0.85	16.20	5.23	84.77	2.75	0.72	0.72
8.64	0.82	15.75	5.50	86.69	2.77	0.72	0.72
8.66	0.68	12.88	7.26	93.59	2.90	0.74	0.74
8.68	0.71	13.58	7.00	95.04	2.89	0.74	0.74
8.70	0.74	13.98	6.88	96.14	2.88	0.74	0.74
8.72	0.87	16.65	5.56	92.53	2.78	0.73	0.73
8.74	0.82	15.71	5.96	93.67	2.81	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.76	0.79	15.10	6.23	94.15	2.83	0.74	0.74
8.78	0.77	14.71	6.41	94.27	2.84	0.74	0.74
8.80	0.74	14.12	6.78	95.75	2.87	0.74	0.74
8.82	0.71	13.45	7.23	97.26	2.90	0.74	0.74
8.84	0.68	12.75	7.65	97.54	2.93	0.74	0.74
8.86	0.66	12.49	7.72	96.45	2.93	0.74	0.74
8.88	0.66	12.34	7.81	96.36	2.94	0.74	0.74
8.90	0.66	12.45	7.66	95.37	2.93	0.74	0.74
8.92	0.67	12.58	7.65	96.22	2.93	0.74	0.74
8.94	0.68	12.87	7.45	95.82	2.92	0.74	0.74
8.96	0.70	13.12	7.34	96.22	2.91	0.74	0.74
8.98	0.70	13.27	7.12	94.50	2.89	0.74	0.74
9.00	0.70	13.23	7.07	93.59	2.89	0.74	0.74
9.02	0.69	12.93	7.29	94.25	2.91	0.74	0.74
9.04	0.66	12.44	7.73	96.12	2.93	0.74	0.74
9.06	0.64	11.93	8.24	98.38	2.97	0.75	0.75
9.08	0.63	11.69	8.61	100.66	2.99	0.75	0.75
9.10	0.65	12.17	8.37	101.78	2.97	0.75	0.75
9.12	0.69	13.01	7.81	101.65	2.94	0.75	0.75
9.14	0.74	13.93	7.19	100.14	2.90	0.75	0.75
9.16	0.77	14.42	6.82	98.38	2.87	0.75	0.75
9.18	0.78	14.63	6.69	97.87	2.86	0.74	0.74
9.20	0.78	14.61	6.73	98.29	2.87	0.74	0.74
9.22	0.76	14.28	6.91	98.70	2.88	0.75	0.75
9.24	0.75	14.04	6.98	98.01	2.88	0.74	0.74
9.26	0.75	14.00	6.87	96.26	2.88	0.74	0.74
9.28	0.76	14.36	6.51	93.49	2.85	0.74	0.74
9.30	0.78	14.70	6.14	90.22	2.82	0.73	0.73
9.32	0.77	14.54	6.04	87.89	2.82	0.72	0.72
9.34	0.75	13.98	6.21	86.77	2.83	0.72	0.72
9.36	0.70	13.05	6.69	87.37	2.86	0.72	0.72
9.38	0.66	12.28	7.22	88.65	2.90	0.73	0.73
9.40	0.62	11.52	7.92	91.25	2.95	0.73	0.73
9.42	0.59	10.93	8.59	93.88	2.99	0.74	0.74
9.44	0.59	10.84	8.77	95.02	3.00	0.74	0.74
9.46	0.61	11.24	8.35	93.82	2.97	0.74	0.74
9.48	0.64	11.86	7.68	91.06	2.93	0.73	0.73
9.50	0.66	12.26	7.12	87.35	2.89	0.72	0.72
9.52	0.68	12.59	6.73	84.68	2.87	0.72	0.72
9.54	0.70	13.04	6.27	81.73	2.83	0.67	0.71
9.56	0.72	13.36	6.07	81.03	2.82	0.64	0.71
9.58	0.72	13.39	6.03	80.69	2.81	0.62	0.71
9.60	0.71	13.12	6.17	80.95	2.82	0.63	0.71
9.62	0.69	12.83	6.26	80.31	2.83	0.60	0.71
9.64	0.68	12.49	6.41	80.02	2.84	0.58	0.71
9.66	0.66	12.23	6.54	80.06	2.85	0.59	0.71
9.68	0.66	12.20	6.53	79.64	2.85	0.57	0.71
9.70	0.68	12.48	6.31	78.78	2.84	0.53	0.70

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
9.72	0.69	12.72	6.11	77.72	2.82	0.48	0.70
9.74	0.69	12.80	6.06	77.60	2.82	0.48	0.70
9.76	0.68	12.54	6.22	78.02	2.83	0.50	0.70
9.78	0.67	12.33	6.38	78.64	2.84	0.52	0.70
9.80	0.66	12.16	6.47	78.73	2.85	0.53	0.70
9.82	0.65	12.00	6.53	78.40	2.85	0.51	0.70
9.84	0.64	11.68	6.74	78.72	2.87	0.53	0.70
9.86	0.61	11.18	7.17	80.12	2.90	0.59	0.71
9.88	0.49	8.85	9.61	85.05	3.05	0.08	0.95
9.90	0.47	8.36	10.20	85.23	3.08	0.09	0.90
9.92	0.45	7.92	10.65	84.36	3.10	0.07	0.85
9.94	0.51	9.19	8.78	80.69	3.00	0.62	0.71
9.96	0.49	8.70	9.42	81.97	3.04	0.07	0.92
9.98	0.48	8.44	10.08	85.12	3.07	0.08	0.89
10.00	0.49	8.64	10.27	88.76	3.08	0.09	0.91
10.02	0.52	9.32	9.84	91.69	3.06	0.10	0.98
10.04	0.57	10.21	9.06	92.57	3.02	0.10	1.07
10.06	0.60	10.95	8.42	92.23	2.98	0.73	0.73
10.08	0.62	11.31	8.11	91.75	2.96	0.73	0.73
10.10	0.64	11.59	7.92	91.75	2.95	0.73	0.73
10.12	0.67	12.15	7.53	91.44	2.92	0.73	0.73
10.14	0.71	13.12	6.93	90.87	2.88	0.73	0.73
10.16	0.80	14.80	6.02	89.04	2.81	0.73	0.73
10.18	0.88	16.42	5.33	87.48	2.76	0.72	0.72
10.20	0.96	17.88	4.81	86.10	2.71	0.72	0.72
10.22	0.98	18.26	4.78	87.23	2.71	0.72	0.72
10.24	0.97	18.07	4.94	89.28	2.72	0.73	0.73
10.26	0.93	17.31	5.29	91.57	2.75	0.73	0.73
10.28	0.90	16.80	5.54	92.99	2.77	0.73	0.73
10.30	0.91	16.92	5.48	92.70	2.77	0.73	0.73
10.32	0.95	17.70	5.03	89.11	2.73	0.73	0.73
10.34	1.00	18.67	4.51	84.25	2.68	0.85	0.85
10.36	1.04	19.43	4.08	79.25	2.64	0.80	0.80
10.38	1.05	19.74	3.84	75.90	2.61	0.77	0.77
10.40	1.05	19.56	3.76	73.64	2.60	0.76	0.76
10.42	1.02	19.07	3.80	72.46	2.61	0.76	0.76
10.44	1.00	18.65	3.97	74.02	2.62	0.78	0.78
10.46	0.99	18.50	4.09	75.71	2.64	0.79	0.79
10.48	1.00	18.59	4.17	77.45	2.65	0.81	0.81
10.50	1.02	18.98	4.12	78.12	2.64	0.80	0.80
10.52	1.03	19.21	4.09	78.51	2.64	0.80	0.80
10.54	1.04	19.44	4.03	78.34	2.63	0.80	0.80
10.56	1.03	19.25	4.04	77.87	2.63	0.80	0.80
10.58	1.02	19.09	4.05	77.29	2.63	0.80	0.80
10.60	0.99	18.43	4.21	77.53	2.65	0.81	0.81
10.62	0.95	17.58	4.50	79.03	2.68	0.84	0.84
10.64	0.88	16.22	5.05	81.92	2.73	0.69	0.71
10.66	0.81	14.92	5.72	85.37	2.79	0.72	0.72

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
10.68	0.75	13.68	6.43	87.98	2.84	0.72	0.72
10.70	0.71	12.87	6.93	89.15	2.88	0.73	0.73
10.72	0.70	12.65	6.98	88.30	2.88	0.73	0.73
10.74	0.71	12.91	6.61	85.31	2.86	0.72	0.72
10.76	0.73	13.25	6.20	82.13	2.83	0.70	0.71
10.78	0.74	13.48	5.78	77.92	2.79	0.49	0.70
10.80	0.75	13.62	5.52	75.18	2.77	0.39	0.70
10.82	0.77	14.06	5.11	71.90	2.74	0.30	0.69
10.84	0.80	14.54	4.82	70.14	2.71	0.26	0.68
10.86	0.82	14.97	4.60	68.78	2.69	0.82	0.82
10.88	0.84	15.32	4.47	68.44	2.68	0.81	0.81
10.90	0.85	15.56	4.46	69.37	2.68	0.81	0.81
10.92	0.86	15.68	4.52	70.84	2.68	0.82	0.82
10.94	0.84	15.39	4.75	73.12	2.70	0.33	0.69
10.96	0.82	14.87	5.09	75.65	2.74	0.41	0.70
10.98	0.79	14.30	5.47	78.17	2.77	0.50	0.70
11.00	0.77	13.90	5.67	78.83	2.79	0.53	0.70
11.02	0.76	13.75	5.67	78.04	2.79	0.50	0.70
11.04	0.76	13.69	5.56	76.05	2.78	0.42	0.70
11.06	0.77	13.96	5.28	73.76	2.75	0.35	0.69
11.08	0.79	14.34	4.97	71.27	2.72	0.28	0.69
11.10	0.72	12.83	5.31	68.17	2.76	0.22	0.68
11.12	0.63	11.04	5.95	65.70	2.81	0.18	0.67
11.14	0.66	11.79	5.47	64.43	2.77	0.16	0.67
11.16	0.80	14.47	4.48	64.89	2.68	0.80	0.80
11.18	0.94	17.15	3.80	65.17	2.61	0.74	0.74
11.20	0.93	17.12	4.02	68.76	2.63	0.77	0.77
11.22	0.98	17.94	4.02	72.16	2.63	0.78	0.78
11.24	1.06	19.65	3.80	74.61	2.61	0.77	0.77
11.26	1.17	21.69	3.40	73.83	2.56	0.73	0.73
11.28	1.20	22.28	3.39	75.57	2.56	0.73	0.73
11.30	1.18	21.96	3.60	79.03	2.58	0.76	0.76
11.32	1.15	21.30	3.92	83.51	2.62	0.80	0.80
11.34	1.13	20.91	4.18	87.43	2.65	0.83	0.83
11.36	1.10	20.26	4.54	91.97	2.68	0.87	0.87
11.38	1.06	19.60	4.97	97.50	2.72	0.74	0.74
11.40	1.03	18.93	5.42	102.50	2.76	0.75	0.75
11.42	1.01	18.56	5.60	103.92	2.78	0.76	0.76
11.44	1.02	18.72	5.40	101.02	2.76	0.75	0.75
11.46	1.06	19.43	4.99	97.06	2.73	0.74	0.74
11.48	1.11	20.57	4.49	92.34	2.68	0.87	0.87
11.50	1.15	21.20	4.26	90.37	2.66	0.84	0.84
11.52	1.16	21.49	4.12	88.53	2.64	0.83	0.83
11.54	1.13	20.90	4.31	90.05	2.66	0.85	0.85
11.56	1.09	20.01	4.63	92.68	2.69	0.88	0.88
11.58	1.03	18.91	5.06	95.62	2.73	0.74	0.74
11.60	0.98	17.94	5.42	97.20	2.76	0.74	0.74
11.62	0.93	16.98	5.75	97.65	2.79	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
11.64	0.90	16.29	5.90	96.10	2.80	0.74	0.74
11.66	0.88	15.91	5.87	93.41	2.80	0.74	0.74
11.68	0.88	15.86	5.60	88.82	2.78	0.73	0.73
11.70	0.89	16.07	5.14	82.60	2.74	0.71	0.71
11.72	0.91	16.44	4.67	76.81	2.70	0.85	0.85
11.74	0.94	17.11	4.19	71.77	2.65	0.79	0.79
11.76	0.98	17.85	3.89	69.39	2.62	0.76	0.76
11.78	1.06	19.09	3.54	67.57	2.57	0.72	0.72
11.80	1.13	20.19	3.25	65.68	2.54	0.32	0.69
11.82	1.18	21.00	3.16	66.25	2.52	0.24	0.68
11.84	1.17	20.93	3.33	69.80	2.55	0.64	0.71
11.86	1.14	20.56	3.67	75.39	2.59	0.76	0.76
11.88	1.14	20.61	3.86	79.53	2.61	0.78	0.78
11.90	1.13	20.59	4.05	83.46	2.63	0.81	0.81
11.92	1.11	20.28	4.38	88.88	2.67	0.85	0.85
11.94	1.05	19.10	5.35	102.19	2.76	0.75	0.75
11.96	0.99	18.03	6.36	114.75	2.84	0.77	0.77
11.98	0.95	17.20	7.27	125.09	2.90	0.79	0.79
12.00	0.92	16.53	7.76	128.21	2.94	0.80	0.80
12.02	0.89	15.96	8.07	128.75	2.96	0.80	0.80
12.04	0.87	15.57	8.16	127.00	2.96	0.79	0.79
12.06	0.84	15.02	8.01	120.39	2.95	0.78	0.78
12.08	0.81	14.46	7.78	112.45	2.94	0.77	0.77
12.10	0.85	15.09	6.79	102.40	2.87	0.75	0.75
12.12	0.94	16.85	5.68	95.75	2.79	0.74	0.74
12.14	1.09	19.45	4.56	88.73	2.69	0.87	0.87
12.16	1.19	21.09	4.23	89.20	2.65	0.84	0.84
12.18	1.22	21.58	4.41	95.09	2.67	0.87	0.87
12.20	1.15	20.64	5.09	105.02	2.74	0.76	0.76
12.22	1.02	18.43	6.07	111.85	2.82	0.77	0.77
12.24	0.89	15.94	7.25	115.59	2.90	0.78	0.78
12.26	0.75	13.17	9.15	120.43	3.02	0.17	0.97
12.28	0.64	10.96	11.71	128.32	3.15	0.18	0.81
12.30	0.56	9.37	14.32	134.18	3.27	0.20	0.69
12.32	0.43	6.84	19.02	130.07	3.43	0.20	0.50
12.34	0.39	6.04	19.56	118.13	3.45	0.13	0.44
12.36	0.36	5.39	19.07	102.76	3.43	0.10	0.39
12.38	0.42	6.52	14.38	93.71	3.27	0.09	0.47
12.40	0.43	6.67	13.26	88.47	3.22	0.07	0.48
12.42	0.42	6.53	13.01	84.94	3.21	0.07	0.47
12.44	0.40	6.17	13.56	83.72	3.24	0.06	0.45
12.46	0.38	5.75	14.69	84.47	3.28	0.07	0.41
12.48	0.36	5.37	15.96	85.71	3.33	0.07	0.39
12.50	0.34	5.02	17.14	86.12	3.37	0.07	0.36
12.52	0.33	4.72	17.97	84.85	3.40	0.07	0.34
12.54	0.32	4.50	17.97	80.77	3.40	0.06	0.32
12.56	0.31	4.35	17.45	75.91	3.38	0.05	0.31
12.58	0.31	4.25	16.61	70.66	3.35	0.04	0.30

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
12.60	0.31	4.25	15.87	67.43	3.33	0.04	0.30
12.62	0.32	4.54	14.28	64.90	3.26	0.03	0.32
12.64	0.35	5.16	12.31	63.48	3.18	0.03	0.37
12.66	0.41	6.16	10.31	63.54	3.08	0.03	0.44
12.68	0.48	7.56	8.40	63.51	2.98	0.15	0.67
12.70	0.57	9.14	6.98	63.77	2.88	0.15	0.67
12.72	0.67	10.88	5.95	64.75	2.81	0.17	0.67
12.74	0.76	12.24	5.47	67.00	2.77	0.20	0.68
12.76	0.81	13.19	5.25	69.21	2.75	0.24	0.68
12.78	0.84	13.63	5.26	71.69	2.75	0.29	0.69
12.80	0.85	13.86	5.32	73.70	2.76	0.35	0.69
12.82	0.85	13.92	5.51	76.64	2.77	0.44	0.70
12.84	0.86	13.95	5.65	78.81	2.78	0.53	0.70
12.86	0.86	13.96	5.78	80.71	2.79	0.62	0.71
12.88	0.86	14.02	5.75	80.57	2.79	0.61	0.71
12.90	0.86	13.97	5.79	80.93	2.80	0.63	0.71
12.92	0.85	13.81	5.85	80.81	2.80	0.62	0.71
12.94	0.85	13.73	5.82	79.91	2.80	0.58	0.71
12.96	0.86	13.83	5.56	76.85	2.78	0.45	0.70
12.98	0.89	14.24	5.16	73.41	2.74	0.34	0.69
13.00	0.92	14.61	4.88	71.27	2.72	0.28	0.69
13.02	0.94	14.85	4.77	70.82	2.71	0.27	0.69
13.04	0.94	14.90	4.88	72.67	2.72	0.32	0.69
13.06	0.93	14.67	5.13	75.32	2.74	0.40	0.70
13.08	0.92	14.64	5.33	78.06	2.76	0.50	0.70
13.10	0.94	14.87	5.29	78.72	2.75	0.52	0.70
13.12	0.99	15.57	4.98	77.47	2.73	0.47	0.70
13.14	1.01	15.91	4.75	75.57	2.70	0.40	0.70
13.16	1.01	15.78	4.67	73.68	2.70	0.84	0.84
13.18	0.98	15.31	4.73	72.38	2.70	0.31	0.69
13.20	0.96	14.96	4.74	70.99	2.70	0.28	0.69
13.22	0.95	14.72	4.85	71.37	2.71	0.29	0.69
13.24	0.94	14.49	5.06	73.29	2.73	0.33	0.69
13.26	0.92	14.19	5.38	76.41	2.76	0.43	0.70
13.28	0.90	14.00	5.60	78.38	2.78	0.51	0.70
13.30	0.90	13.93	5.74	79.92	2.79	0.58	0.71
13.32	0.91	14.04	5.69	79.94	2.79	0.58	0.71
13.34	0.93	14.33	5.58	79.93	2.78	0.58	0.71
13.36	0.96	14.74	5.36	79.00	2.76	0.54	0.70
13.38	0.99	15.22	5.15	78.43	2.74	0.51	0.70
13.40	1.08	16.47	4.65	76.61	2.69	0.84	0.84
13.42	1.16	17.74	4.25	75.45	2.65	0.81	0.81
13.44	1.24	18.74	3.95	73.92	2.62	0.78	0.78
13.46	1.21	18.27	4.09	74.74	2.64	0.79	0.79
13.48	1.13	17.20	4.55	78.32	2.69	0.84	0.84
13.50	1.06	16.12	4.92	79.26	2.72	0.55	0.71
13.52	1.05	15.90	4.83	76.85	2.71	0.45	0.70
13.54	1.15	17.06	3.83	65.30	2.61	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
13.56	1.23	18.14	3.38	61.34	2.55	0.33	0.69
13.58	1.29	18.96	3.20	60.59	2.53	0.17	0.67
13.60	1.27	18.70	3.50	65.49	2.57	0.71	0.71
13.62	1.18	17.39	3.84	66.83	2.61	0.75	0.75
13.64	1.06	15.63	4.25	66.42	2.65	0.78	0.78
13.66	0.95	13.94	4.62	64.44	2.69	0.81	0.81
13.68	0.93	13.55	4.56	61.79	2.69	0.79	0.79
13.70	0.93	13.47	4.42	59.47	2.67	0.77	0.77
13.72	0.93	13.35	4.28	57.15	2.66	0.76	0.76
13.74	0.93	13.32	4.11	54.72	2.64	0.73	0.73
13.76	0.95	13.56	3.88	52.58	2.61	0.60	0.71
13.78	1.01	14.27	3.58	51.17	2.58	0.21	0.68
13.80	1.07	15.09	3.31	49.91	2.55	0.09	0.65
13.82	1.13	16.01	3.04	48.72	2.51	0.04	0.62
13.84	1.17	16.53	2.89	47.80	2.49	0.05	0.62
13.86	1.19	16.70	2.80	46.81	2.47	0.04	0.62
13.88	1.16	16.28	2.83	46.05	2.48	0.04	0.62
13.90	1.11	15.57	3.00	46.70	2.50	0.04	0.62
13.92	1.04	14.53	3.34	48.56	2.55	0.09	0.65
13.94	0.98	13.71	3.66	50.18	2.59	0.24	0.68
13.96	0.96	13.44	3.76	50.54	2.60	0.33	0.69
13.98	0.99	13.79	3.58	49.36	2.58	0.17	0.67
14.00	1.03	14.25	3.38	48.15	2.55	0.09	0.65
14.02	1.04	14.38	3.37	48.39	2.55	0.09	0.65
14.04	1.02	14.09	3.63	51.16	2.59	0.24	0.68
14.06	0.98	13.59	4.07	55.29	2.64	0.73	0.73
14.08	0.96	13.42	4.38	58.84	2.67	0.77	0.77
14.10	0.97	13.53	4.61	62.38	2.69	0.80	0.80
14.12	0.98	13.68	4.75	65.03	2.70	0.17	0.67
14.14	0.95	13.37	5.10	68.16	2.74	0.22	0.68
14.16	0.90	12.58	5.36	67.49	2.76	0.21	0.68
14.18	0.83	11.53	5.65	65.21	2.78	0.17	0.67
14.20	0.78	10.59	5.70	60.31	2.79	0.12	0.66
14.22	0.73	9.92	5.78	57.32	2.79	0.09	0.65
14.24	0.71	9.52	5.78	55.03	2.79	0.08	0.64
14.26	0.69	9.16	5.80	53.12	2.80	0.07	0.64
14.28	0.68	8.90	5.74	51.04	2.79	0.06	0.63
14.30	0.67	8.78	5.60	49.18	2.78	0.05	0.62
14.32	0.67	8.75	5.51	48.22	2.77	0.05	0.62
14.34	0.67	8.77	5.43	47.60	2.76	0.04	0.62
14.36	0.68	8.86	5.46	48.42	2.77	0.05	0.62
14.38	0.69	9.00	5.45	49.00	2.77	0.05	0.62
14.40	0.69	9.03	5.47	49.45	2.77	0.05	0.62
14.42	0.70	9.12	5.42	49.41	2.76	0.05	0.62
14.44	0.79	10.37	4.55	47.20	2.69	0.74	0.74
14.46	1.01	13.39	3.17	42.46	2.53	0.04	0.62
14.48	1.30	17.20	2.26	38.79	2.38	0.03	0.62
14.50	1.51	19.91	1.00	19.91	2.30	0.02	0.62

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
14.52	1.58	20.76	1.00	20.76	2.29	0.02	0.62
14.54	1.70	22.39	1.00	22.39	2.25	0.02	0.62
14.56	1.94	25.37	1.00	25.37	2.19	0.02	0.62
14.58	2.29	29.86	1.00	29.86	2.12	0.02	0.62
14.60	2.63	34.23	1.00	34.23	2.07	0.02	0.62
14.62	2.99	38.67	1.00	38.67	2.03	0.03	0.62
14.64	3.28	42.19	1.00	42.19	1.98	0.03	0.62
14.66	3.35	42.98	1.00	42.98	1.96	0.03	0.62
14.68	3.19	40.69	1.00	40.69	1.96	0.03	0.62
14.70	2.85	36.48	1.00	36.48	2.00	0.02	0.62
14.72	2.52	32.39	1.00	32.39	2.07	0.02	0.62
14.74	2.27	29.50	1.00	29.50	2.18	0.02	0.62
14.76	2.18	29.06	2.05	59.62	2.33	0.11	0.66
14.78	2.59	34.65	1.93	66.75	2.30	0.20	0.68
14.80	3.60	47.36	1.51	71.67	2.15	0.29	0.69
14.82	5.00	64.18	1.28	81.93	1.96	0.69	0.71
14.84	6.26	78.89	1.19	93.84	1.84	0.74	0.74
14.86	7.12	88.58	1.00	88.58	1.75	0.73	0.73
14.88	7.59	93.43	1.00	93.43	1.69	0.74	0.74
14.90	7.79	94.83	1.00	94.83	1.63	0.74	0.74
14.92	7.81	94.43	1.00	94.43	1.60	0.74	0.74
14.94	7.79	93.98	1.00	93.98	1.59	0.74	0.74
14.96	7.85	94.82	1.00	94.82	1.60	0.74	0.74
14.98	8.23	99.15	1.00	99.15	1.59	0.75	0.75
15.00	8.97	107.40	1.00	107.40	1.56	0.76	0.76
15.02	10.06	119.80	1.00	119.80	1.52	0.78	0.78
15.04	11.30	133.53	1.00	133.53	1.47	0.80	0.80
15.06	12.32	144.66	1.00	144.66	1.43	0.82	0.82
15.08	12.87	150.52	1.00	150.52	1.41	0.83	0.83
15.10	13.00	152.02	1.00	152.02	1.42	0.83	0.83
15.12	13.03	152.64	1.00	152.64	1.43	0.83	0.83
15.14	13.23	154.80	1.00	154.80	1.43	0.83	0.83
15.16	13.81	161.27	1.00	161.27	1.42	0.84	0.84
15.18	14.43	168.24	1.00	168.24	1.42	0.85	0.85
15.20	14.98	174.51	1.00	174.51	1.42	0.86	0.86
15.22	15.10	176.20	1.00	176.20	1.43	0.86	0.86
15.24	15.15	176.64	1.00	176.64	1.44	0.86	0.86
15.26	15.17	176.52	1.00	176.52	1.43	0.86	0.86
15.28	15.28	177.25	1.00	177.25	1.41	0.86	0.86
15.30	15.36	178.01	1.00	178.01	1.42	0.86	0.86
15.32	15.47	178.95	1.00	178.95	1.41	0.86	0.86
15.34	15.48	179.20	1.00	179.20	1.42	0.86	0.86
15.36	15.58	179.88	1.00	179.88	1.41	0.86	0.86
15.38	15.53	179.09	1.00	179.09	1.41	0.86	0.86
15.40	15.52	178.56	1.00	178.56	1.40	0.86	0.86
15.42	15.46	177.72	1.00	177.72	1.40	0.86	0.86
15.44	15.45	177.38	1.00	177.38	1.40	0.86	0.86
15.46	15.37	176.05	1.00	176.05	1.39	0.86	0.86

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
15.48	14.97	171.64	1.00	171.64	1.41	0.85	0.85
15.50	14.11	162.84	1.00	162.84	1.47	0.84	0.84
15.52	13.10	151.63	1.00	151.63	1.50	0.83	0.83
15.54	12.29	142.29	1.00	142.29	1.52	0.82	0.82
15.56	11.90	137.35	1.00	137.35	1.50	0.81	0.81
15.58	11.77	135.87	1.00	135.87	1.51	0.81	0.81
15.60	11.65	134.28	1.00	134.28	1.51	0.80	0.80
15.62	11.52	132.43	1.00	132.43	1.50	0.80	0.80
15.64	11.34	130.14	1.00	130.14	1.50	0.80	0.80
15.66	11.20	129.06	1.00	129.06	1.54	0.80	0.80
15.68	11.30	130.51	1.00	130.51	1.56	0.80	0.80
15.70	11.64	133.93	1.00	133.93	1.54	0.80	0.80
15.72	11.86	136.09	1.00	136.09	1.52	0.81	0.81
15.74	11.53	132.82	1.00	132.82	1.56	0.80	0.80
15.76	11.05	127.72	1.00	127.72	1.60	0.79	0.79
15.78	10.50	121.49	1.00	121.49	1.62	0.79	0.79
15.80	10.24	118.05	1.00	118.05	1.61	0.78	0.78
15.82	9.98	115.26	1.00	115.26	1.63	0.78	0.78
15.84	10.15	117.05	1.00	117.05	1.63	0.78	0.78
15.86	10.89	124.93	1.00	124.93	1.59	0.79	0.79
15.88	12.03	137.00	1.00	137.00	1.53	0.81	0.81
15.90	13.76	155.07	1.00	155.07	1.44	0.83	0.83
15.92	16.23	180.99	1.00	180.99	1.36	0.87	0.87
15.94	18.50	204.49	1.00	204.49	1.28	0.89	0.89
15.96	20.03	220.34	1.00	220.34	1.24	0.91	0.91
15.98	19.12	210.30	1.00	210.30	1.25	0.90	0.90
16.00	18.25	201.28	1.00	201.28	1.29	0.89	0.89
16.02	16.79	185.92	1.00	185.92	1.33	0.87	0.87
16.04	16.40	181.97	1.00	181.97	1.36	0.87	0.87
16.06	15.55	172.48	1.00	172.48	1.37	0.86	0.86
16.08	14.84	165.91	1.00	165.91	1.45	0.85	0.85
16.10	14.13	158.91	1.00	158.91	1.51	0.84	0.84
16.12	13.42	151.67	1.00	151.67	1.57	0.83	0.83
16.14	12.84	145.03	1.00	145.03	1.58	0.82	0.82
16.16	12.43	140.45	1.00	140.45	1.59	0.81	0.81
16.18	11.92	134.96	1.00	134.96	1.63	0.81	0.81
16.20	10.91	123.97	1.00	123.97	1.68	0.79	0.79
16.22	10.34	117.76	1.03	120.91	1.72	0.78	0.78
16.24	11.17	127.20	1.02	130.21	1.72	0.80	0.80
16.26	12.83	145.97	1.00	145.97	1.71	0.82	0.82
16.28	14.02	159.84	1.05	168.11	1.73	0.85	0.85
16.30	14.18	162.16	1.11	180.29	1.77	0.86	0.86
16.32	14.13	161.99	1.16	188.25	1.81	0.87	0.87
16.34	14.28	163.32	1.15	187.81	1.80	0.87	0.87
16.36	14.36	163.70	1.13	184.77	1.78	0.87	0.87
16.38	14.14	160.34	1.08	172.85	1.75	0.86	0.86
16.40	13.30	150.68	1.09	164.58	1.75	0.85	0.85
16.42	12.10	136.78	1.10	150.37	1.76	0.83	0.83

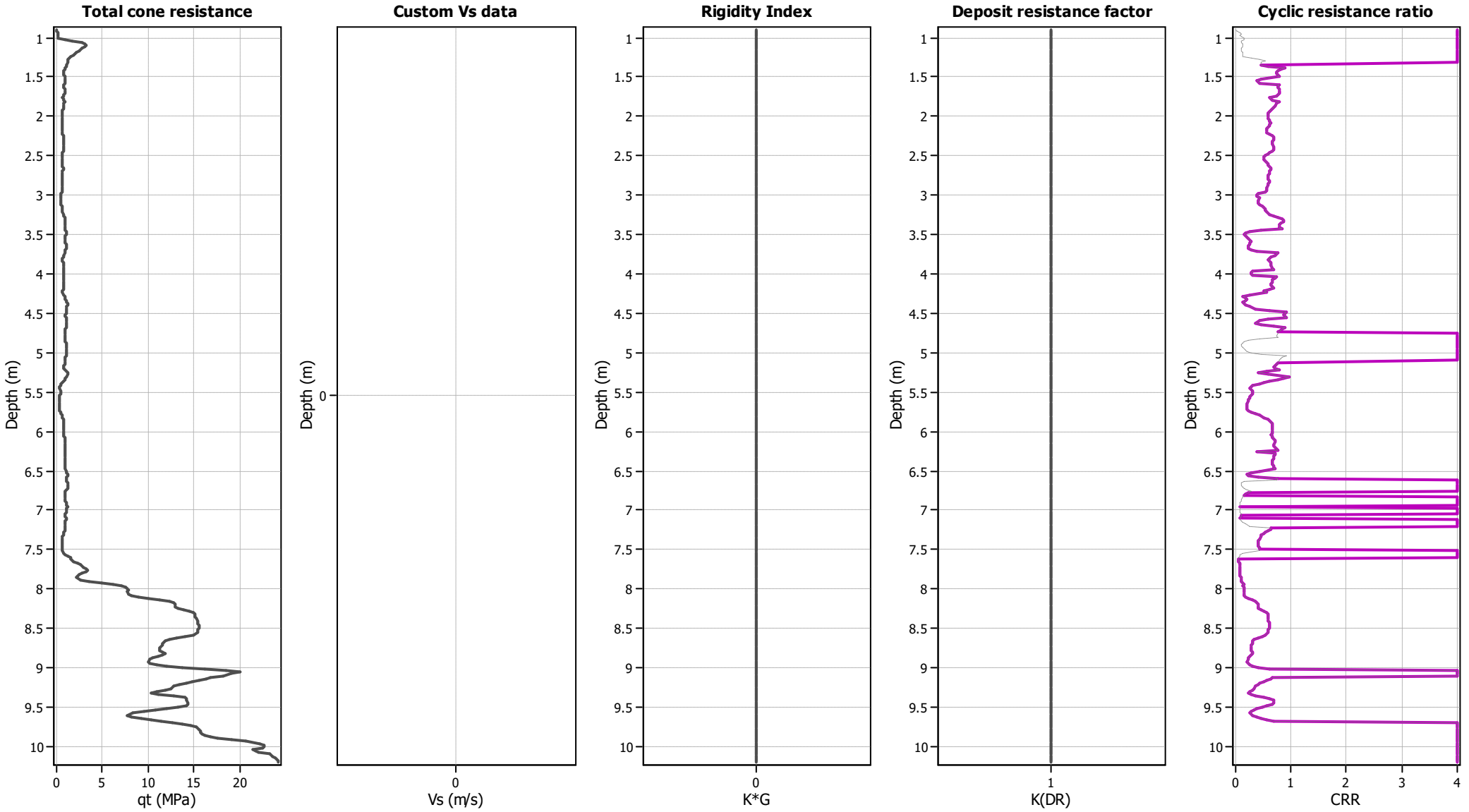
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
16.44	10.83	122.60	1.16	141.61	1.80	0.82	0.82
16.46	9.53	108.38	1.22	132.42	1.88	0.80	0.80
16.48	8.30	95.42	1.33	126.99	2.03	0.79	0.79
16.50	7.78	90.08	1.48	133.62	2.14	0.80	0.80
16.52	8.19	95.19	1.56	148.33	2.18	0.82	0.82
16.54	9.25	107.22	1.50	160.83	2.15	0.84	0.84
16.56	10.34	119.52	1.45	173.22	2.12	0.86	0.86
16.58	11.45	132.03	1.41	186.56	2.10	0.87	0.87
16.60	12.68	145.80	1.39	202.02	2.08	0.89	0.89
16.62	13.80	158.26	1.36	215.00	2.05	0.90	0.90
16.64	14.67	167.84	1.35	225.81	2.04	0.91	0.91
16.66	15.22	173.97	1.35	235.31	2.05	0.92	0.92
16.68	15.64	178.66	1.36	243.32	2.06	0.93	0.93
16.70	15.75	179.75	1.38	248.18	2.07	0.93	0.93
16.72	15.74	179.47	1.39	250.25	2.08	0.94	0.94
16.74	15.88	180.83	1.40	253.49	2.09	0.94	0.94
16.76	16.25	184.79	1.41	260.20	2.09	0.94	0.94
16.78	16.88	191.60	1.40	269.15	2.09	0.95	0.95
16.80	17.63	199.78	1.40	278.80	2.08	0.96	0.96
16.82	19.12	215.70	1.35	291.92	2.05	0.97	0.97
16.84	20.71	232.78	1.32	306.70	2.01	0.98	0.98
16.86	22.15	248.06	1.29	321.10	1.98	0.99	0.99
16.88	22.73	254.05	1.29	328.91	1.98	1.00	1.00
16.90	22.64	252.94	1.31	330.73	2.00	1.00	1.00
16.92	22.48	250.93	1.32	331.49	2.02	1.00	1.00
16.94	21.43	239.37	1.36	325.42	2.05	1.00	1.00
16.96	21.75	242.55	1.36	329.84	2.05	1.00	1.00
16.98	22.11	246.16	1.37	336.17	2.06	1.00	1.00
17.00	23.35	259.28	1.34	348.23	2.04	1.01	1.01
17.02	23.58	261.42	1.35	352.46	2.04	1.02	1.02
17.04	23.82	263.59	1.35	355.62	2.04	1.02	1.02
17.06	24.06	265.84	1.35	359.10	2.05	1.02	1.02
17.08	24.17	266.62	1.36	361.33	2.05	1.02	1.02
17.10	24.20	266.55	1.36	362.23	2.05	1.02	1.02

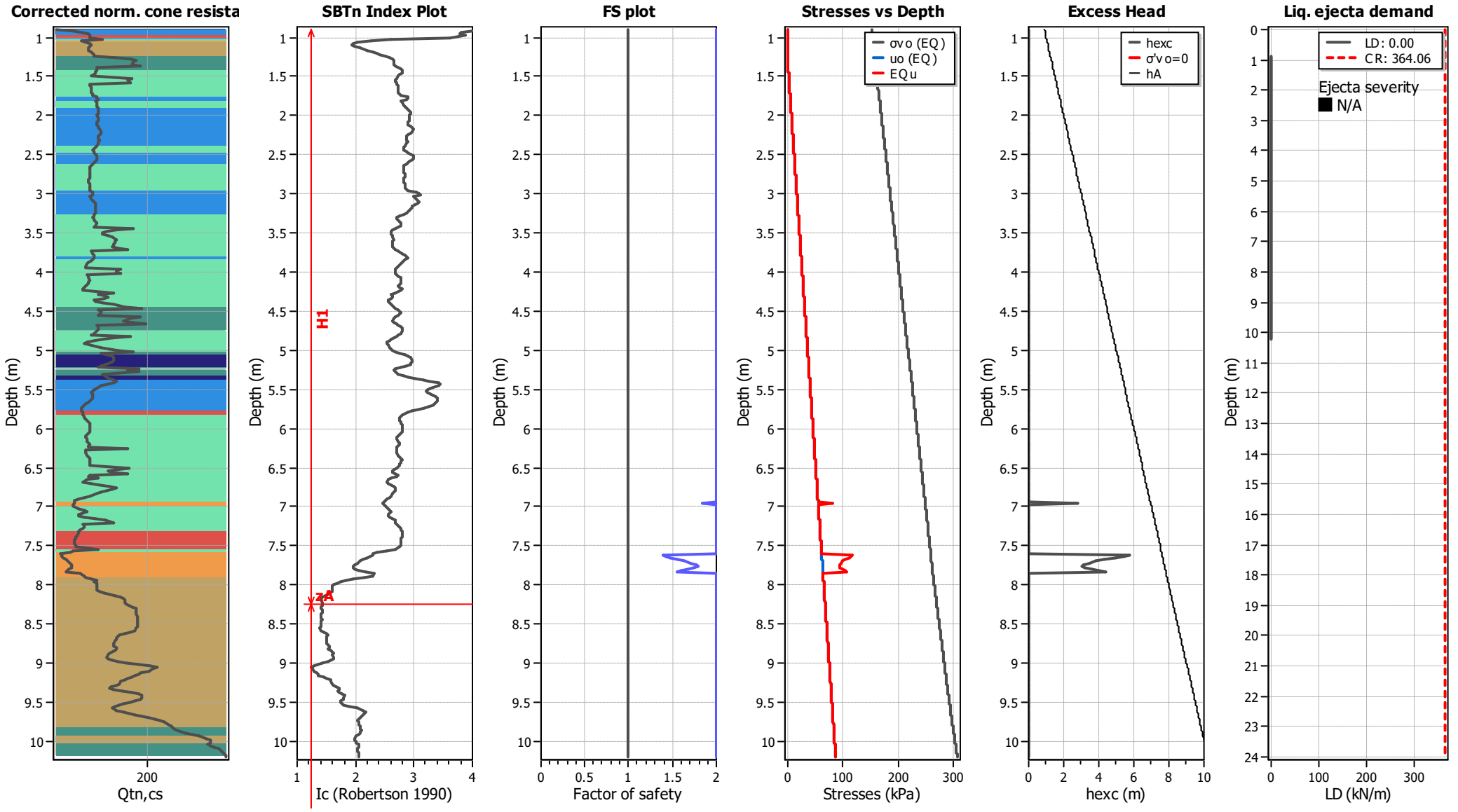
Abbreviations

q_t:	Total cone resistance
K_c:	Cone resistance correction factor due to fines
$Q_{tn,cs}$:	Adjusted and corrected cone resistance due to fines
I_c:	Soil behavior type index
$S_{u(liq)}/\sigma'_v$:	Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$:	Calculated peak undrained strength ratio

Aging Calculation Estimation



Ejecta Severity Estimation



Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois
http://www.andrews-eng.us

LIQUEFACTION ANALYSIS REPORT

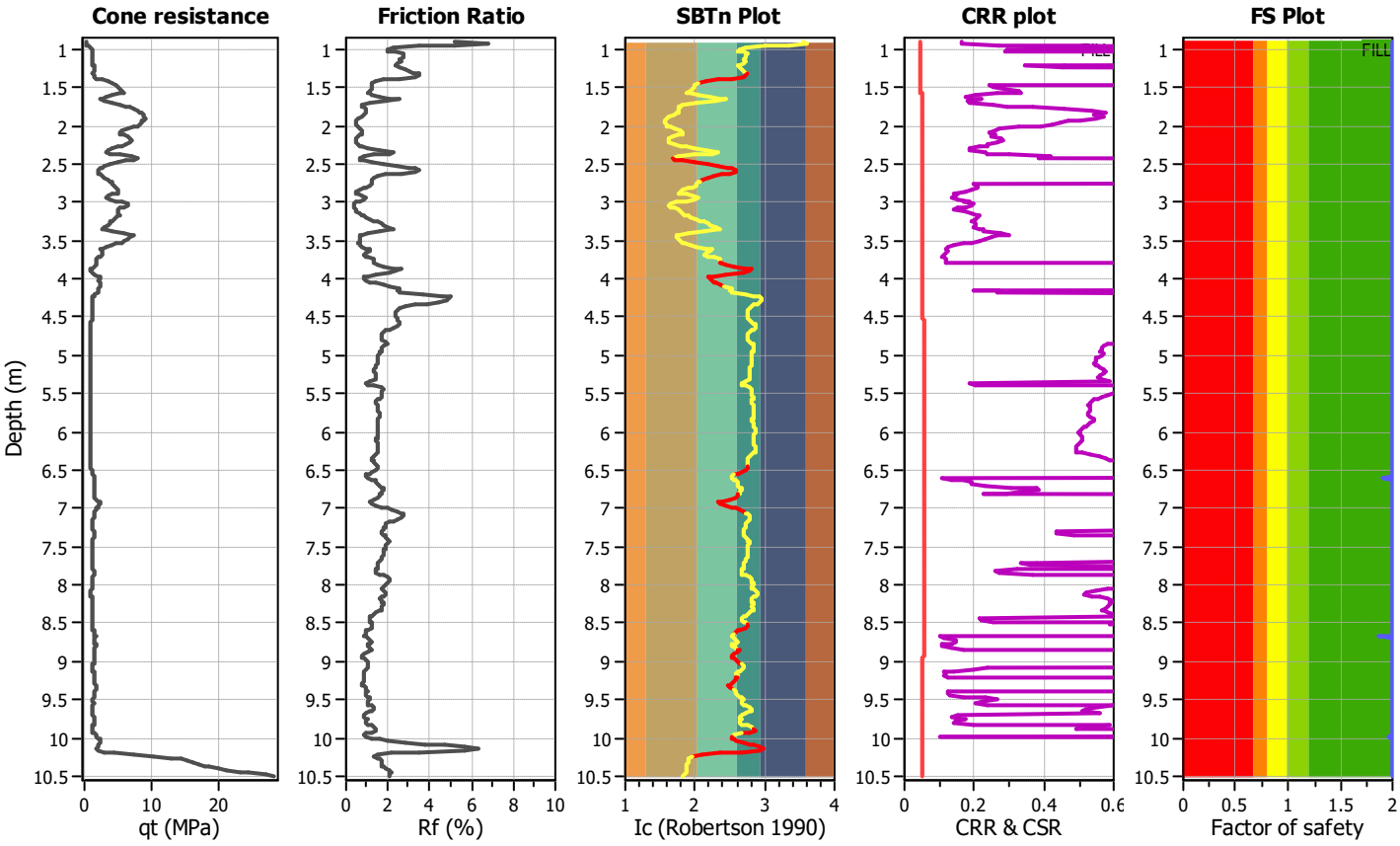
Project title : CWLP Liquefaction Analysis

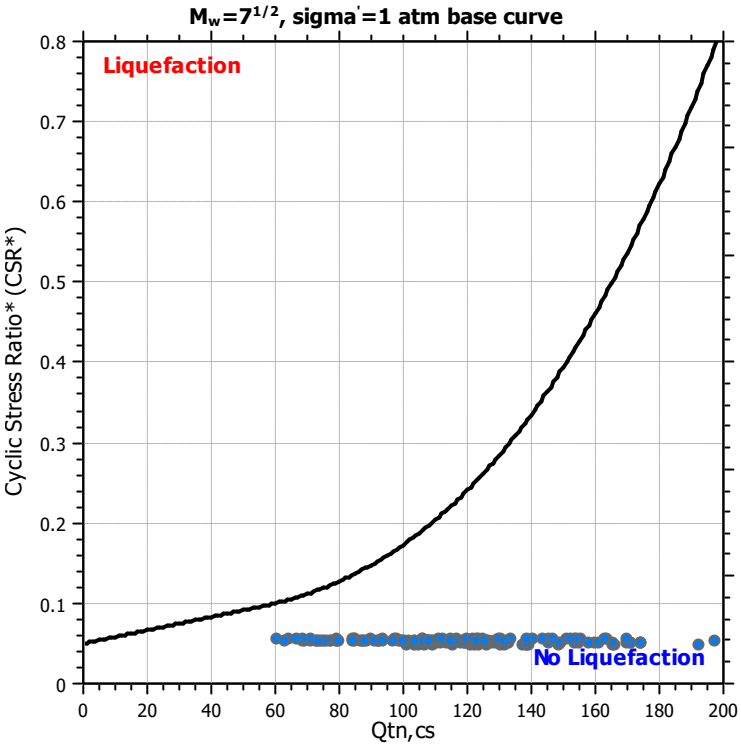
Location : East Lake Shore Drive, Springfield, Illinois

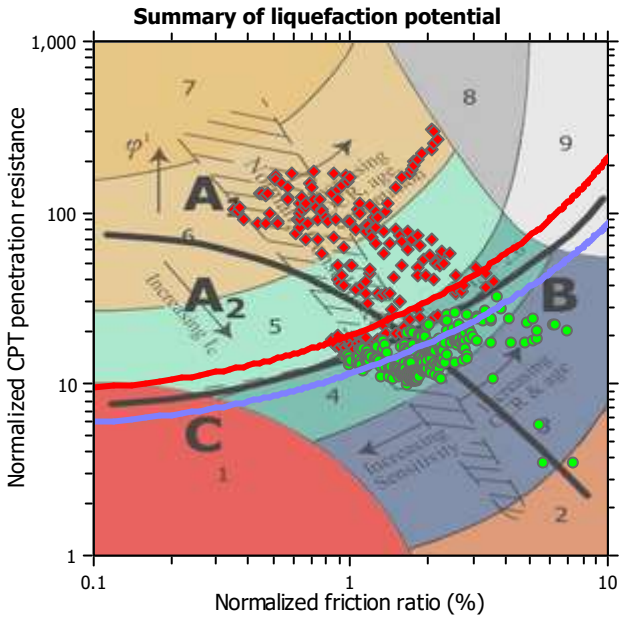
CPT file : CWLP CPT-7L

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	1.20 m	Use fill:	Yes	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	6.28 m	Fill height:	5.67 m	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	18.90 kN/m³	Limit depth:	N/A
Earthquake magnitude M_w:	6.62	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.10	Unit weight calculation:	Based on SBT	K_σ applied:	No		

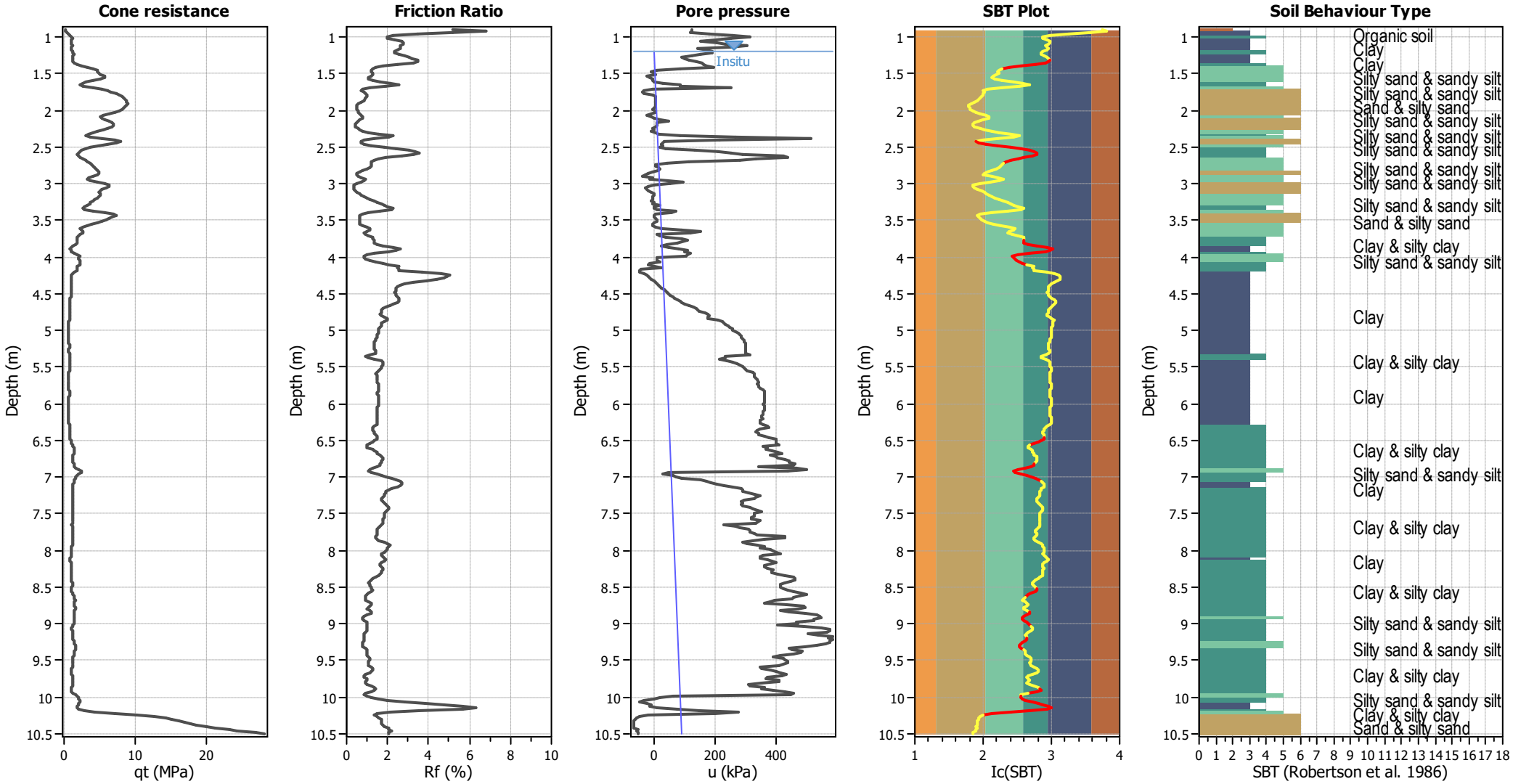






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



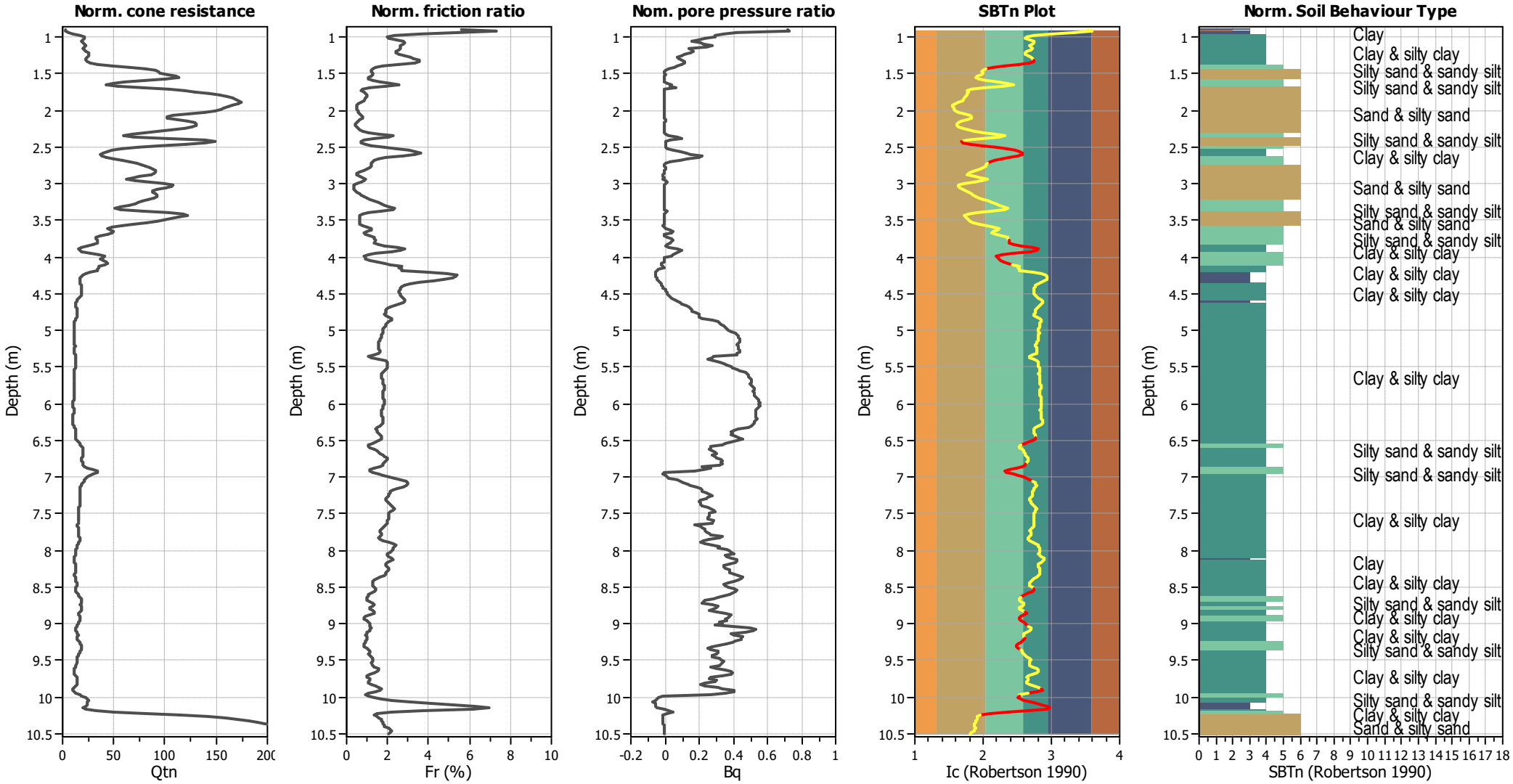
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	6.28 m	Fill weight:	18.90 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	5.67 m	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

CPT basic interpretation plots (normalized)



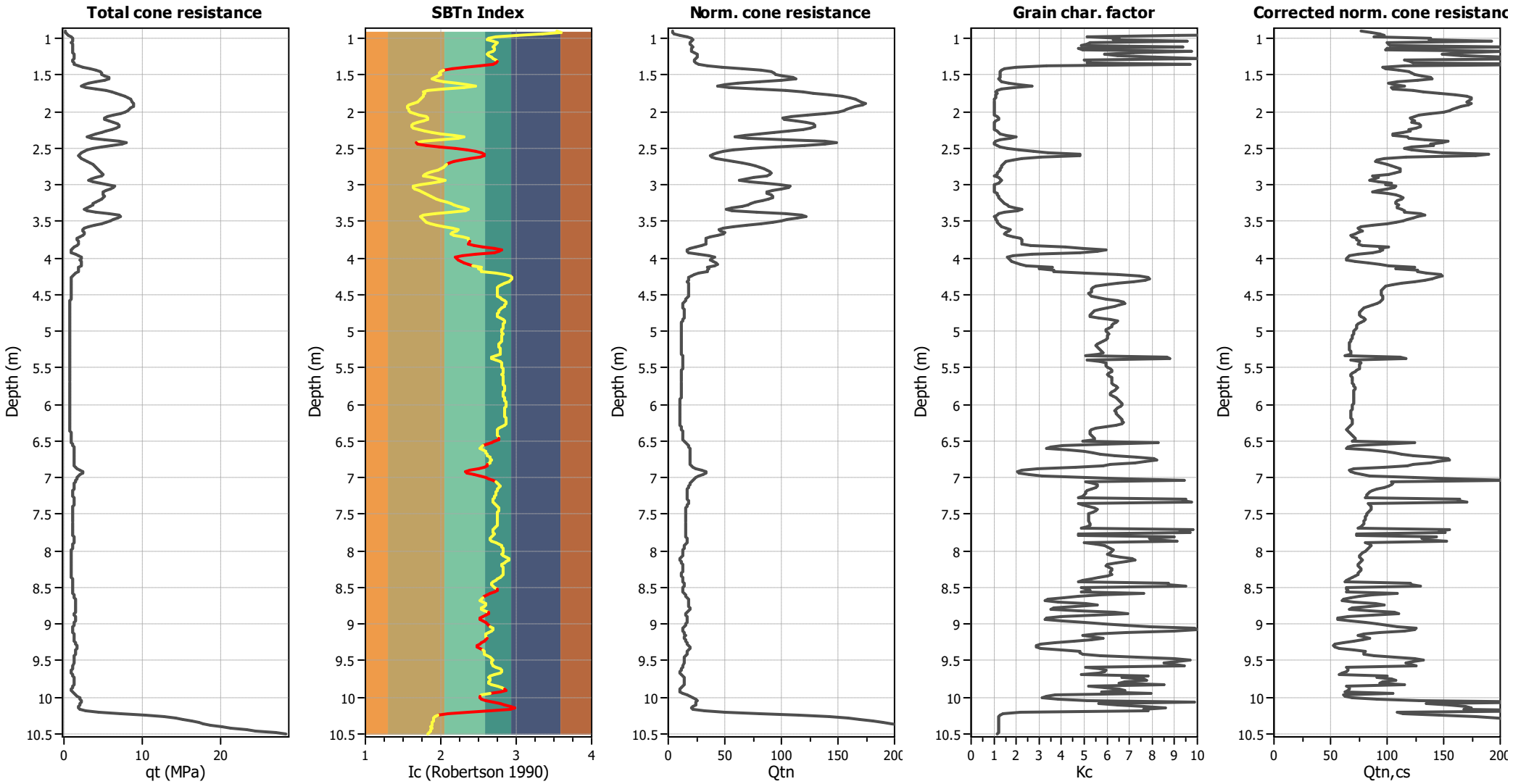
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	6.28 m	Fill weight:	18.90 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	5.67 m	Limit depth:	N/A

SBTn legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

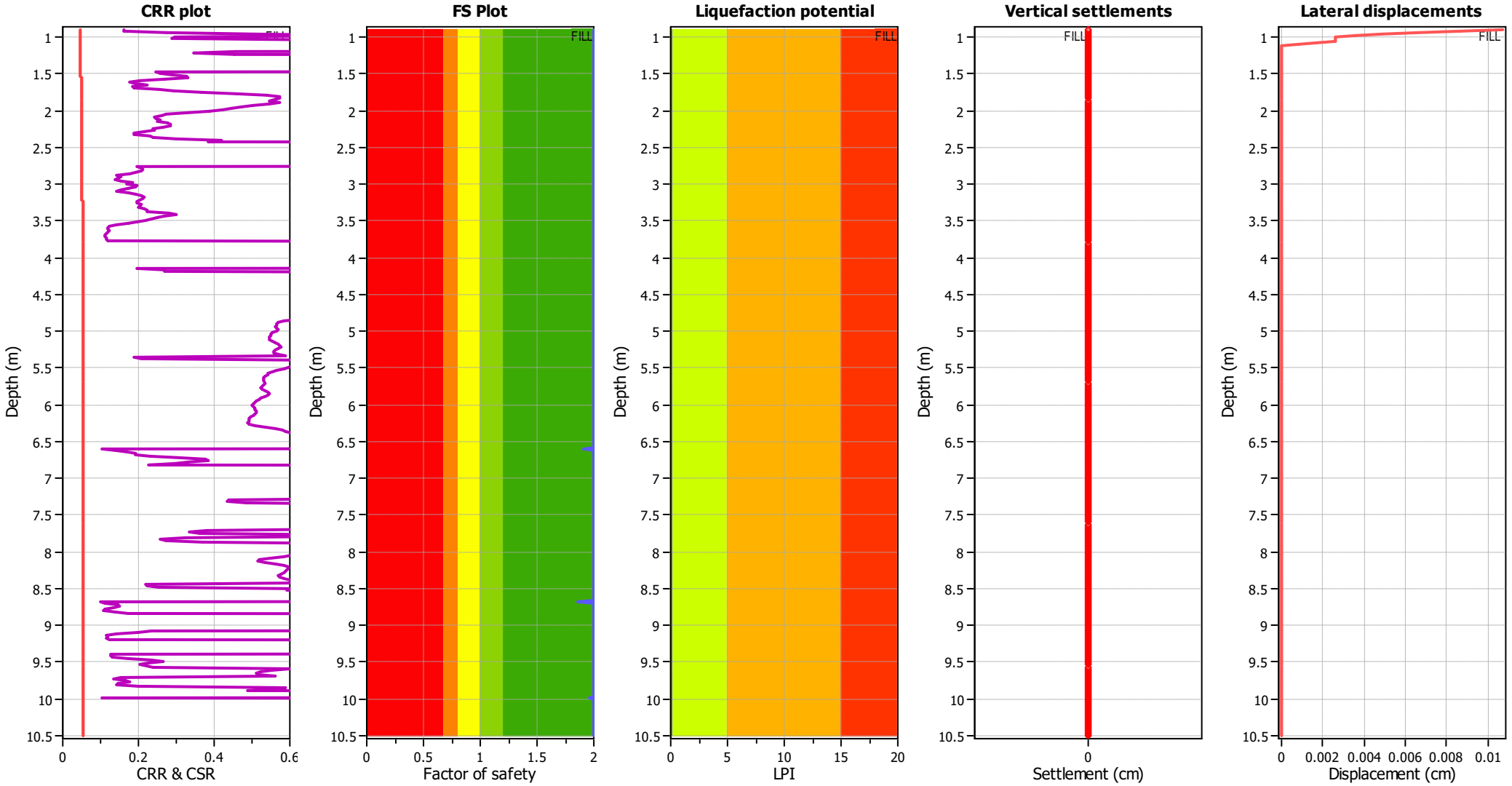
Liquefaction analysis overall plots (intermediate results)



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	6.28 m	Fill weight:	18.90 kN/m^3
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	5.67 m	Limit depth:	N/A

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	6.28 m	Fill weight:	18.90 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	5.67 m	Limit depth:	N/A

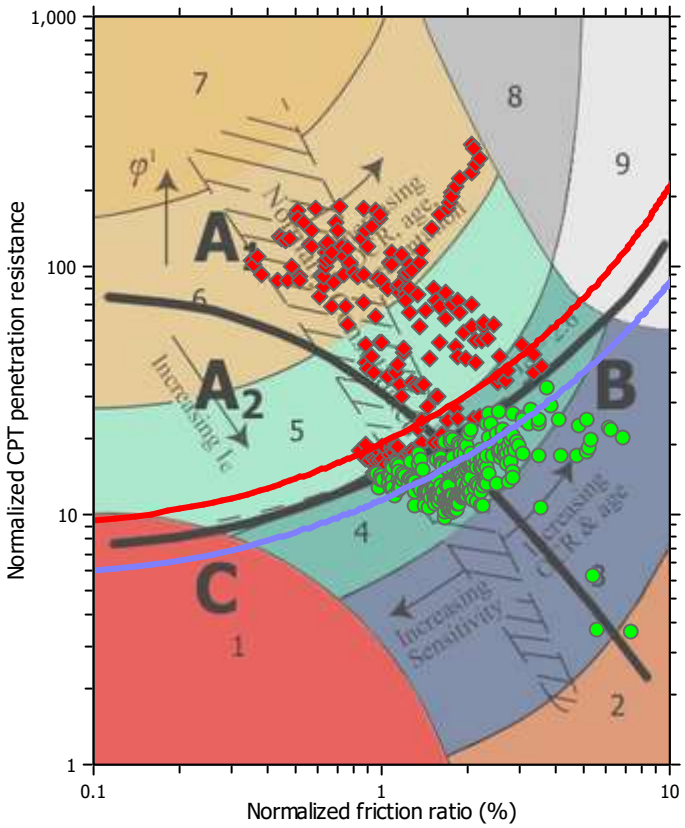
F.S. color scheme

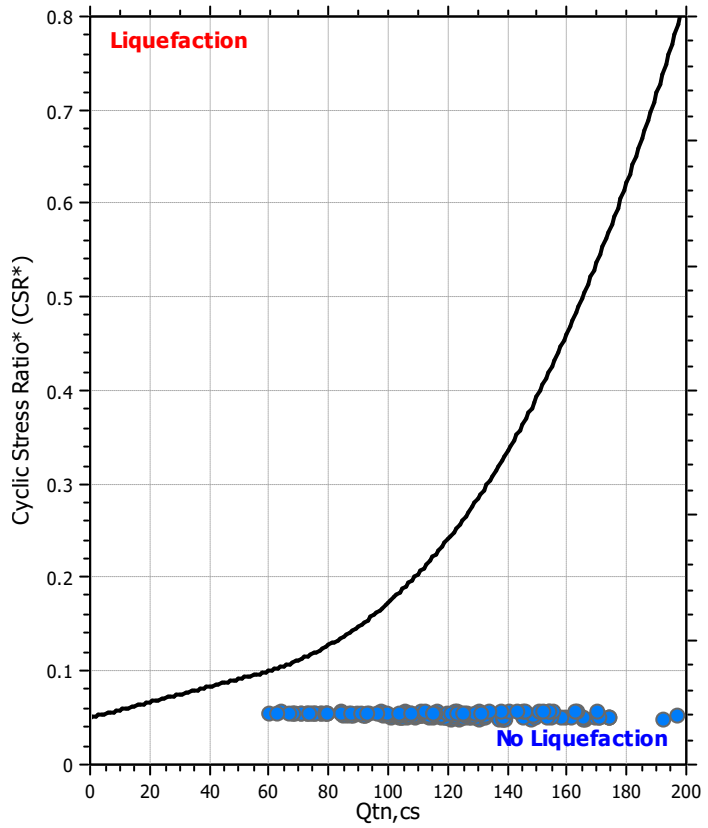
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

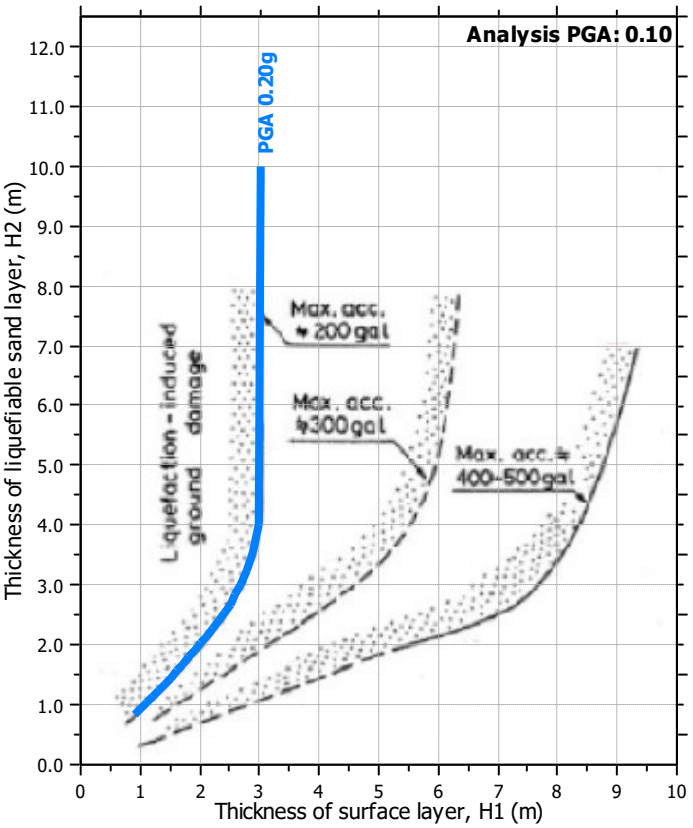
LPI color scheme

- Very high risk
- High risk
- Low risk

Liquefaction analysis summary plots



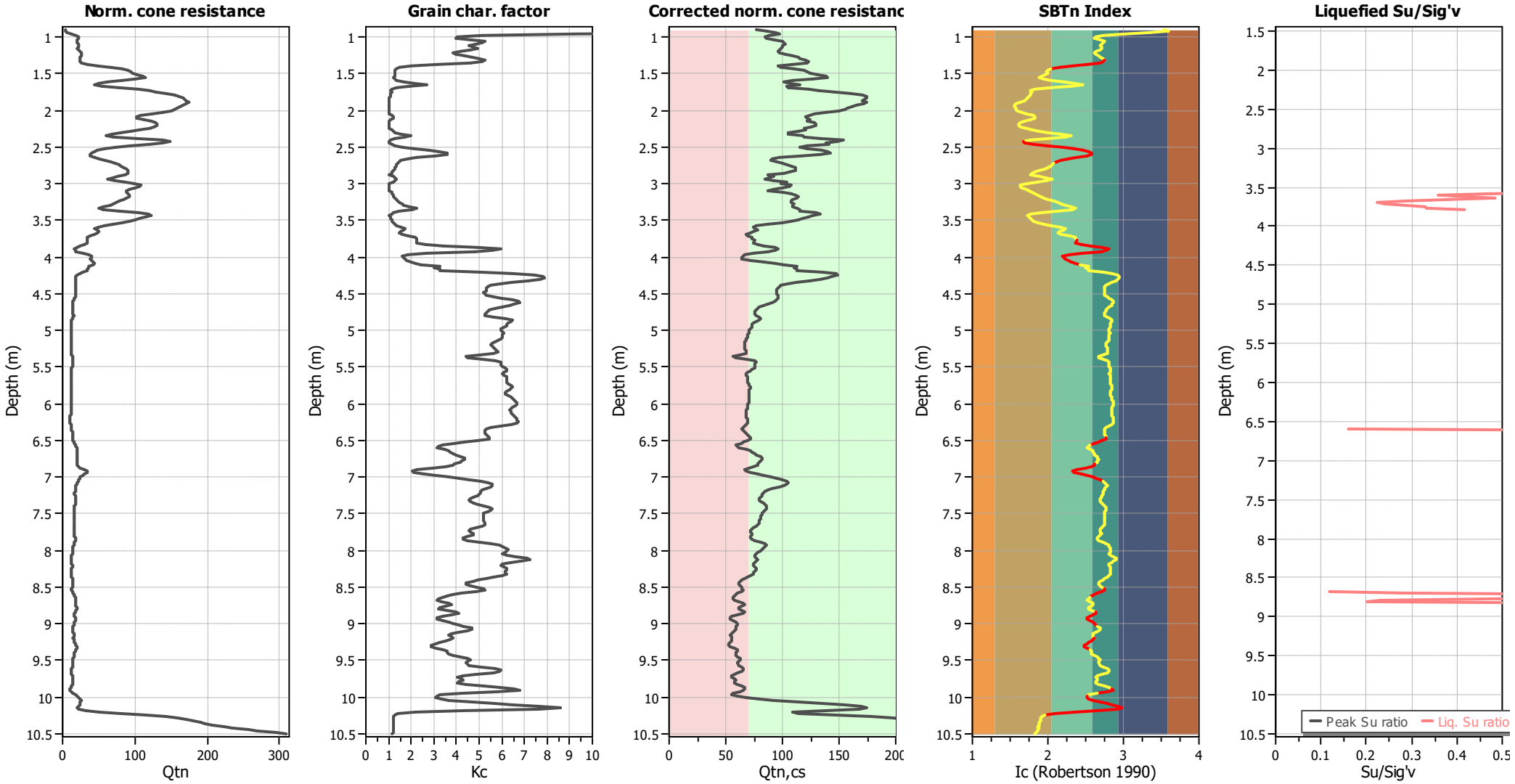




Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	6.28 m	Fill weight:	18.90 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	5.67 m	Limit depth:	N/A

Check for strength loss plots (Robertson (2010))



Input parameters and analysis data

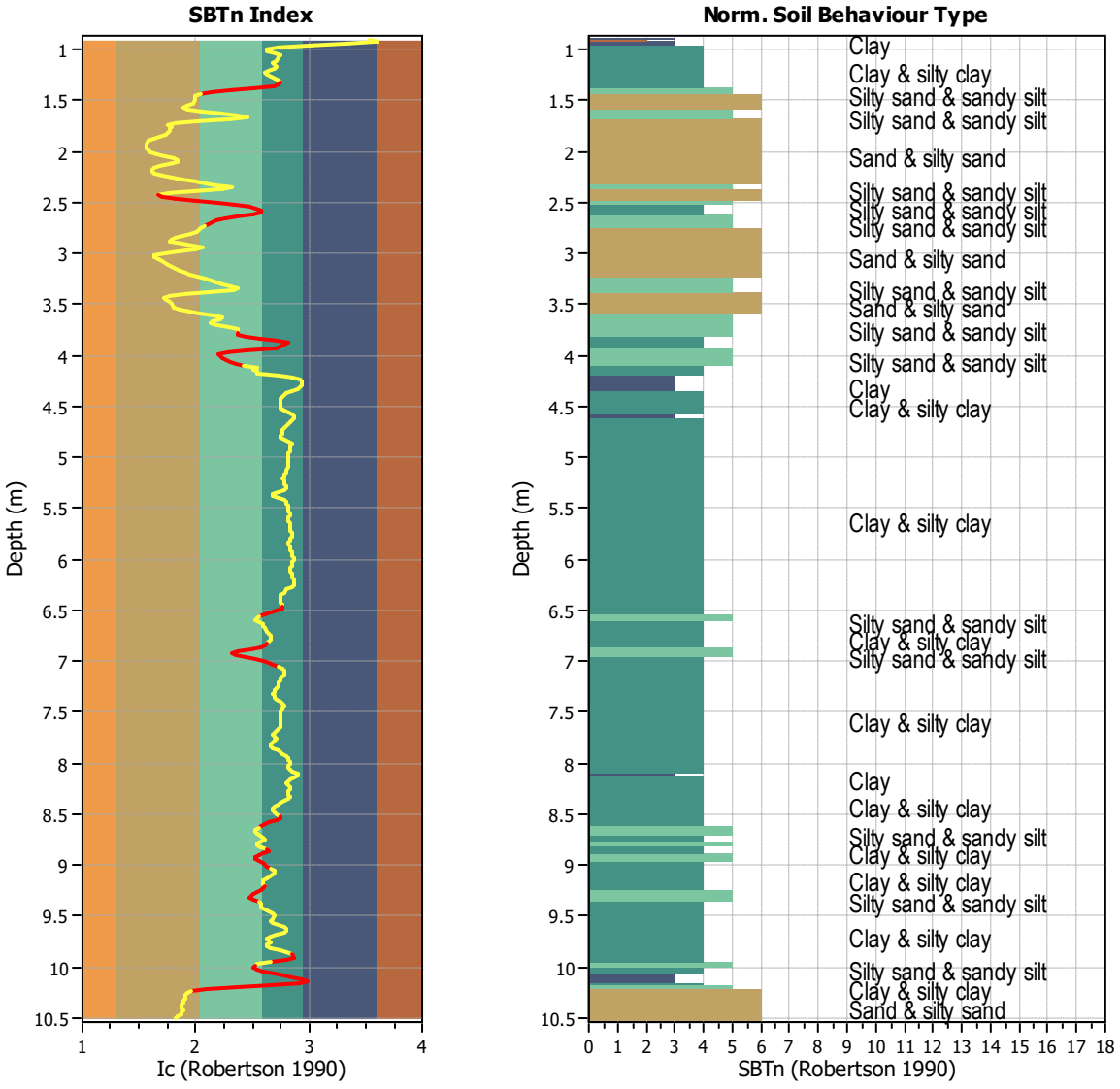
Analysis method:	Robertson (2009)	Depth to water table (erthq.):	6.28 m	Fill weight:	18.90 kN/m³
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.62	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.10	Use fill:	Yes	Limit depth applied:	No
Depth to water table (insitu):	1.20 m	Fill height:	5.67 m	Limit depth:	N/A

TRANSITION LAYER DETECTION ALGORITHM REPORT
Summary Details & Plots

Short description

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of I_c values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of I_c. Transitions typically occur when the rate of change of I_c is fast (i.e. delta I_c is small).

The SBT_n plot below, displays in red the detected transition layers based on the parameters listed below the graphs.



Transition layer algorithm properties		General statistics	
I_c minimum check value:	1.70	Total points in CPT file:	481
I_c maximum check value:	3.00	Total points excluded:	107
I_c change ratio value:	0.0100	Exclusion percentage:	22.25%
Minimum number of points in layer:	4	Number of layers detected:	17

Transition layer No	Number of points	Depth	SBT_n number	SBT_n description
Transition layer 1	7	Start depth: 1.34 (m)	4	Clay & silty clay
		End depth: 1.46 (m)	6	Sand & silty sand
Transition layer 2	8	Start depth: 2.44 (m)	6	Sand & silty sand
		End depth: 2.58 (m)	4	Clay & silty clay
Transition layer 3	8	Start depth: 2.60 (m)	4	Clay & silty clay
		End depth: 2.74 (m)	5	Silty sand & sandy silt
Transition layer 4	5	Start depth: 3.80 (m)	5	Silty sand & sandy silt
		End depth: 3.88 (m)	4	Clay & silty clay
Transition layer 5	6	Start depth: 3.88 (m)	4	Clay & silty clay
		End depth: 3.98 (m)	5	Silty sand & sandy silt
Transition layer 6	7	Start depth: 4.00 (m)	5	Silty sand & sandy silt
		End depth: 4.12 (m)	4	Clay & silty clay
Transition layer 7	6	Start depth: 6.48 (m)	4	Clay & silty clay
		End depth: 6.58 (m)	5	Silty sand & sandy silt
Transition layer 8	5	Start depth: 6.84 (m)	4	Clay & silty clay
		End depth: 6.92 (m)	5	Silty sand & sandy silt
Transition layer 9	9	Start depth: 6.92 (m)	5	Silty sand & sandy silt
		End depth: 7.08 (m)	4	Clay & silty clay
Transition layer 10	7	Start depth: 8.54 (m)	4	Clay & silty clay
		End depth: 8.66 (m)	5	Silty sand & sandy silt
Transition layer 11	4	Start depth: 8.86 (m)	4	Clay & silty clay
		End depth: 8.92 (m)	5	Silty sand & sandy silt
Transition layer 12	7	Start depth: 8.94 (m)	5	Silty sand & sandy silt
		End depth: 9.06 (m)	4	Clay & silty clay
Transition layer 13	5	Start depth: 9.22 (m)	4	Clay & silty clay
		End depth: 9.30 (m)	5	Silty sand & sandy silt
Transition layer 14	4	Start depth: 9.32 (m)	5	Silty sand & sandy silt
		End depth: 9.38 (m)	4	Clay & silty clay
Transition layer 15	4	Start depth: 9.90 (m)	4	Clay & silty clay
		End depth: 9.96 (m)	5	Silty sand & sandy silt
Transition layer 16	8	Start depth: 10.00 (m)	5	Silty sand & sandy silt
		End depth: 10.14 (m)	3	Clay
Transition layer 17	7	Start depth: 10.14 (m)	3	Clay
		End depth: 10.26 (m)	6	Sand & silty sand

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

:: Field input data ::

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
1	0.90	0.17	9.70	125.20	100.00	14.96
2	0.92	0.17	9.70	125.20	100.00	15.27
3	0.94	0.17	18.70	121.80	84.99	15.70
4	0.96	0.50	18.80	183.70	59.88	16.17
5	0.98	0.90	20.70	259.20	42.61	16.41
6	1.00	1.14	21.40	315.20	36.85	16.55
7	1.02	1.09	22.40	254.50	36.52	16.62
8	1.04	1.01	24.00	208.10	39.90	16.68
9	1.06	0.92	26.70	152.90	43.25	16.75
10	1.08	0.90	28.90	206.70	42.61	16.84
11	1.10	1.14	29.10	237.00	41.34	16.92
12	1.12	1.08	30.90	304.40	39.72	16.93
13	1.14	1.05	28.20	260.40	40.69	16.85
14	1.16	0.99	24.70	142.60	41.55	16.78
15	1.18	0.96	27.50	170.90	40.07	16.81
16	1.20	1.21	28.90	191.50	37.56	16.90
17	1.22	1.31	28.20	190.90	36.00	17.02
18	1.24	1.28	34.40	153.50	36.72	17.13
19	1.26	1.29	37.70	123.60	38.57	17.23
20	1.28	1.25	37.70	92.30	40.42	17.26
21	1.30	1.14	38.70	101.30	41.84	17.26
22	1.32	1.16	39.20	116.80	43.23	17.32
23	1.34	1.20	45.00	138.70	42.42	17.40
24	1.36	1.30	45.20	159.50	40.00	17.47
25	1.38	1.49	43.40	165.10	31.91	17.56
26	1.40	2.40	43.60	171.80	23.29	17.68
27	1.42	3.36	44.40	195.10	17.34	17.89
28	1.44	4.20	54.00	85.90	14.12	18.08
29	1.46	4.84	57.20	8.30	12.88	18.21
30	1.48	4.83	57.10	-8.00	12.66	18.25
31	1.50	4.58	58.80	1.50	12.82	18.33
32	1.52	5.10	67.80	4.70	12.15	18.42
33	1.54	5.88	68.60	-21.80	10.96	18.47
34	1.56	5.92	61.70	-13.40	10.15	18.40
35	1.58	5.51	55.30	-5.70	11.22	18.23
36	1.60	3.89	49.50	-3.50	14.15	18.07
37	1.62	3.02	50.60	-1.00	19.45	17.96
38	1.64	2.50	54.80	29.70	24.44	17.94
39	1.66	2.17	56.60	84.50	28.60	17.92
40	1.68	1.95	56.60	84.50	22.63	17.93
41	1.70	4.04	44.80	256.00	13.74	17.92
42	1.72	5.99	35.90	-6.80	8.71	17.89
43	1.74	5.82	41.30	-31.40	7.32	18.03
44	1.76	6.47	54.40	-36.70	7.72	18.33
45	1.78	7.39	70.80	-31.20	7.56	18.59
46	1.80	7.92	76.60	-5.30	7.38	18.76
47	1.82	8.11	80.90	3.00	7.12	18.83
48	1.84	8.46	82.30	4.70	6.73	18.84

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
49	1.86	8.69	76.00	4.60	6.01	18.79
50	1.88	8.95	67.00	4.70	4.90	18.60
51	1.90	8.98	47.00	2.90	4.14	18.39
52	1.92	8.83	44.50	3.10	3.70	18.20
53	1.94	8.54	43.00	3.20	3.77	18.14
54	1.96	8.33	41.50	0.00	3.93	18.11
55	1.98	8.23	42.80	-3.00	4.08	18.09
56	2.00	7.96	41.10	3.30	4.45	18.07
57	2.02	7.28	41.10	3.70	5.17	18.00
58	2.04	6.20	39.70	-11.30	6.52	17.95
59	2.06	5.42	41.00	-23.50	8.10	17.90
60	2.08	4.98	40.30	-10.30	8.88	17.86
61	2.10	5.16	38.00	-0.90	8.87	17.87
62	2.12	5.51	42.60	21.20	7.35	17.84
63	2.14	6.48	33.60	48.50	5.93	17.79
64	2.16	6.81	29.50	8.20	4.89	17.72
65	2.18	7.08	33.80	8.20	4.59	17.69
66	2.20	6.94	30.10	8.30	4.52	17.68
67	2.22	6.95	28.80	4.30	4.89	17.66
68	2.24	6.22	33.70	-3.60	6.16	17.78
69	2.26	5.33	42.80	1.30	7.71	17.75
70	2.28	4.71	30.60	-8.60	9.81	17.77
71	2.30	4.26	40.80	4.90	12.82	17.84
72	2.32	3.37	56.10	14.90	17.91	18.08
73	2.34	2.85	68.30	85.10	23.17	18.27
74	2.36	2.82	80.10	268.10	20.19	18.41
75	2.38	4.93	70.80	514.80	12.70	18.52
76	2.40	7.74	60.40	213.50	7.44	18.49
77	2.42	8.49	55.60	34.70	5.66	18.39
78	2.44	7.69	48.90	30.30	6.15	18.29
79	2.46	5.96	49.70	22.70	8.45	18.28
80	2.48	4.76	63.80	30.90	12.63	18.28
81	2.50	3.73	63.00	20.70	18.54	18.35
82	2.52	2.74	77.10	39.50	24.19	18.33
83	2.54	2.46	75.80	132.50	29.34	18.31
84	2.56	2.23	73.60	211.50	31.99	18.26
85	2.58	1.99	74.60	253.80	34.50	18.18
86	2.60	1.77	67.80	291.00	34.49	18.01
87	2.62	1.84	47.30	427.50	31.29	17.81
88	2.64	2.10	42.70	440.20	25.54	17.60
89	2.66	2.50	36.70	337.10	21.56	17.58
90	2.68	2.86	39.40	282.10	18.28	17.62
91	2.70	3.38	41.40	113.50	16.28	17.74
92	2.72	3.76	43.70	41.60	15.00	17.85
93	2.74	3.93	47.40	4.60	14.33	17.95
94	2.76	4.16	50.30	7.20	13.84	18.02
95	2.78	4.35	50.20	16.80	13.14	18.04
96	2.80	4.46	48.00	20.60	11.72	17.93

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
97	2.82	4.67	34.90	13.40	10.21	17.76
98	2.84	4.86	30.70	-2.90	8.58	17.50
99	2.86	5.03	24.30	-17.50	7.75	17.31
100	2.88	4.84	20.90	-27.40	5.00	17.16
101	2.90	4.49	21.60	-38.20	9.93	17.17
102	2.92	2.66	29.40	-3.70	11.94	17.23
103	2.94	3.54	27.60	-13.60	14.56	17.35
104	2.96	3.45	32.90	43.30	12.60	17.45
105	2.98	4.01	33.30	93.70	9.55	17.52
106	3.00	6.28	26.90	55.30	5.00	17.44
107	3.02	6.51	21.00	1.10	5.02	17.34
108	3.04	6.39	23.00	-18.70	4.96	17.24
109	3.06	5.96	21.70	-30.00	5.00	17.18
110	3.08	5.44	18.80	-23.80	5.00	17.10
111	3.10	4.65	20.50	-18.80	5.00	17.13
112	3.12	4.93	25.00	-8.10	7.98	17.31
113	3.14	5.14	30.30	1.50	8.65	17.58
114	3.16	5.08	39.60	1.40	9.41	17.78
115	3.18	5.03	42.30	-5.40	10.43	17.92
116	3.20	4.76	46.00	-4.90	11.44	17.98
117	3.22	4.42	48.30	-5.70	13.20	18.03
118	3.24	3.84	53.00	-10.80	15.13	18.07
119	3.26	3.67	56.30	1.60	16.90	18.15
120	3.28	3.77	61.70	-3.60	18.41	18.23
121	3.30	3.43	67.80	20.50	19.91	18.18
122	3.32	2.84	53.20	-1.80	22.47	18.08
123	3.34	2.52	54.80	0.40	25.29	18.06
124	3.36	2.51	70.50	11.60	23.61	18.20
125	3.38	3.74	69.30	70.80	16.95	18.35
126	3.40	5.80	59.10	59.50	10.78	18.37
127	3.42	7.61	51.70	6.70	7.63	18.27
128	3.44	7.38	45.10	1.80	6.60	18.16
129	3.46	6.83	42.50	2.60	7.00	18.04
130	3.48	6.13	40.70	4.30	7.57	17.93
131	3.50	5.79	36.00	8.50	7.96	17.82
132	3.52	5.66	34.00	11.90	8.43	17.65
133	3.54	4.68	28.50	1.00	9.42	17.48
134	3.56	3.93	26.30	-5.80	11.32	17.25
135	3.58	3.10	22.80	-3.60	13.83	17.07
136	3.60	2.48	22.20	3.50	17.56	17.05
137	3.62	2.13	29.70	26.50	20.15	17.10
138	3.64	2.34	28.70	89.70	19.64	17.17
139	3.66	2.78	26.50	153.60	17.56	17.09
140	3.68	2.67	21.90	118.70	16.77	16.94
141	3.70	2.32	19.20	9.60	18.39	16.80
142	3.72	1.91	21.40	18.10	21.87	16.75
143	3.74	1.62	22.40	40.90	25.02	16.77
144	3.76	1.70	23.00	89.60	25.24	16.76

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
145	3.78	1.84	21.10	109.70	25.44	16.86
146	3.80	1.74	28.00	78.50	25.30	16.82
147	3.82	1.66	20.50	43.80	28.18	16.81
148	3.84	1.34	22.70	26.60	33.45	16.67
149	3.86	0.86	24.60	49.00	41.48	16.64
150	3.88	0.86	23.60	82.90	46.63	16.55
151	3.90	0.89	20.70	108.30	44.70	16.51
152	3.92	0.94	21.60	103.00	40.89	16.45
153	3.94	1.07	18.60	120.10	28.81	16.58
154	3.96	2.29	19.80	109.60	21.80	16.63
155	3.98	2.31	19.20	106.80	18.89	16.68
156	4.00	2.02	18.20	12.00	19.52	16.64
157	4.02	2.02	18.20	12.00	20.37	16.60
158	4.04	2.02	18.20	12.00	21.20	16.93
159	4.06	2.40	34.90	18.10	22.83	17.30
160	4.08	2.32	43.70	-12.80	24.65	17.56
161	4.10	2.12	43.10	-18.20	27.10	17.62
162	4.12	1.98	44.30	-0.40	32.35	17.66
163	4.14	1.41	54.90	25.90	31.11	17.65
164	4.16	2.32	40.50	-42.60	32.54	17.64
165	4.18	1.73	45.30	-48.60	32.54	17.64
166	4.20	1.42	54.40	-49.00	41.80	17.70
167	4.22	1.21	60.40	-35.30	48.76	17.70
168	4.24	1.07	54.00	-26.00	52.98	17.62
169	4.26	1.00	49.10	-20.70	54.52	17.48
170	4.28	0.96	45.70	-15.50	54.89	17.39
171	4.30	0.96	44.50	-10.40	53.94	17.27
172	4.32	0.94	35.70	-0.60	51.86	17.12
173	4.34	0.95	30.80	4.20	48.86	16.93
174	4.36	0.97	27.20	9.10	46.37	16.80
175	4.38	0.98	25.40	13.40	44.55	16.70
176	4.40	0.99	23.80	18.10	43.64	16.66
177	4.42	0.99	24.30	22.80	43.39	16.65
178	4.44	0.98	24.20	32.40	43.40	16.62
179	4.46	0.96	22.40	37.90	43.34	16.61
180	4.48	0.98	23.70	43.60	43.00	16.61
181	4.50	1.01	24.10	47.40	43.06	16.64
182	4.52	0.98	24.10	52.20	43.53	16.63
183	4.54	0.94	23.50	61.10	44.86	16.59
184	4.56	0.88	22.50	66.70	46.54	16.52
185	4.58	0.81	21.10	75.70	48.70	16.44
186	4.60	0.75	20.60	84.30	50.02	16.35
187	4.62	0.74	18.80	93.40	50.25	16.26
188	4.64	0.74	17.10	101.10	49.22	16.15
189	4.66	0.73	15.50	117.50	48.18	16.04
190	4.68	0.72	14.30	127.50	46.89	15.95
191	4.70	0.74	13.60	137.00	45.38	15.91
192	4.72	0.77	13.60	144.90	44.11	15.91

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
193	4.74	0.78	13.80	150.90	43.75	15.91
194	4.76	0.76	13.60	168.20	43.57	15.90
195	4.78	0.77	13.20	178.40	43.12	15.89
196	4.80	0.80	13.50	179.90	43.21	15.93
197	4.82	0.78	14.90	178.20	44.92	15.99
198	4.84	0.71	15.70	177.80	47.35	15.97
199	4.86	0.65	13.40	210.60	48.95	15.88
200	4.88	0.65	12.40	223.50	48.50	15.75
201	4.90	0.65	11.70	228.90	47.97	15.69
202	4.92	0.64	11.50	235.40	47.70	15.65
203	4.94	0.64	11.30	242.60	47.76	15.64
204	4.96	0.64	11.40	249.90	47.14	15.62
205	4.98	0.65	10.80	257.50	46.54	15.59
206	5.00	0.65	10.40	260.90	46.55	15.55
207	5.02	0.62	10.40	267.30	46.92	15.53
208	5.04	0.62	10.30	277.60	47.19	15.51
209	5.06	0.62	10.10	281.90	46.92	15.49
210	5.08	0.62	9.80	285.90	46.76	15.47
211	5.10	0.62	9.80	285.90	46.77	15.45
212	5.12	0.61	9.70	293.30	46.48	15.44
213	5.14	0.62	9.50	296.30	45.92	15.43
214	5.16	0.64	9.40	297.80	45.17	15.42
215	5.18	0.64	9.20	301.10	44.71	15.43
216	5.20	0.66	9.60	300.60	44.50	15.44
217	5.22	0.66	9.70	302.90	44.56	15.46
218	5.24	0.65	9.50	301.50	44.86	15.45
219	5.26	0.64	9.50	301.00	45.28	15.44
220	5.28	0.64	9.70	300.40	45.59	15.45
221	5.30	0.64	9.70	300.40	45.76	15.46
222	5.32	0.64	9.70	300.40	45.15	15.47
223	5.34	0.68	9.90	315.30	42.08	15.34
224	5.36	0.75	6.10	236.20	39.11	15.19
225	5.38	0.75	6.10	236.20	39.20	15.34
226	5.40	0.78	12.80	214.30	42.42	15.64
227	5.42	0.72	13.50	238.20	45.33	15.87
228	5.44	0.72	13.60	256.50	46.36	15.87
229	5.46	0.72	13.10	270.80	46.36	15.85
230	5.48	0.71	13.00	281.30	46.62	15.84
231	5.50	0.69	13.30	293.70	46.89	15.82
232	5.52	0.69	12.50	297.30	47.35	15.78
233	5.54	0.66	11.90	301.70	47.53	15.70
234	5.56	0.64	11.10	307.60	47.56	15.62
235	5.58	0.64	10.30	326.80	47.21	15.54
236	5.60	0.63	9.90	331.50	46.88	15.50
237	5.62	0.63	9.90	331.50	47.16	15.49
238	5.64	0.62	10.10	330.80	47.55	15.50
239	5.66	0.62	10.20	336.10	47.78	15.51
240	5.68	0.63	10.20	341.10	47.73	15.52

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
241	5.70	0.63	10.40	343.30	47.65	15.53
242	5.72	0.63	10.40	339.70	48.09	15.55
243	5.74	0.62	10.70	343.00	48.55	15.56
244	5.76	0.62	10.90	346.70	48.90	15.58
245	5.78	0.62	10.90	351.70	48.67	15.59
246	5.80	0.63	10.80	359.90	48.14	15.59
247	5.82	0.65	10.90	361.60	47.63	15.60
248	5.84	0.65	10.90	366.30	47.29	15.60
249	5.86	0.65	10.80	365.40	47.48	15.60
250	5.88	0.64	10.80	362.00	47.90	15.58
251	5.90	0.63	10.60	361.70	48.45	15.57
252	5.92	0.62	10.60	362.20	48.75	15.56
253	5.94	0.62	10.60	364.50	49.03	15.55
254	5.96	0.61	10.40	362.00	49.33	15.54
255	5.98	0.61	10.40	362.40	49.59	15.53
256	6.00	0.61	10.40	360.00	49.58	15.52
257	6.02	0.61	10.20	365.00	49.40	15.52
258	6.04	0.62	10.30	364.90	48.95	15.51
259	6.06	0.63	10.10	365.30	48.65	15.51
260	6.08	0.63	10.10	362.60	48.32	15.51
261	6.10	0.63	10.10	360.80	48.42	15.51
262	6.12	0.63	10.20	361.00	48.46	15.51
263	6.14	0.63	10.00	358.00	48.75	15.50
264	6.16	0.62	9.90	353.20	49.06	15.48
265	6.18	0.61	10.00	353.90	49.42	15.49
266	6.20	0.62	10.20	357.00	49.60	15.50
267	6.22	0.62	10.10	351.20	49.69	15.51
268	6.24	0.61	10.20	349.40	49.83	15.50
269	6.26	0.61	10.20	349.40	49.70	15.52
270	6.28	0.63	10.40	359.00	48.60	15.53
271	6.30	0.67	10.20	373.90	46.46	15.54
272	6.32	0.73	9.80	379.60	44.55	15.54
273	6.34	0.75	10.00	350.30	43.43	15.56
274	6.36	0.76	10.40	341.50	43.21	15.61
275	6.38	0.78	10.80	333.20	43.10	15.68
276	6.40	0.81	11.90	345.20	43.10	15.74
277	6.42	0.80	11.90	342.80	43.50	15.82
278	6.44	0.80	13.10	362.00	43.87	15.86
279	6.46	0.81	13.30	377.60	44.09	15.90
280	6.48	0.81	13.10	400.60	44.00	15.90
281	6.50	0.81	13.10	400.60	41.58	15.90
282	6.52	0.98	12.40	400.30	38.69	15.90
283	6.54	1.04	12.10	404.40	36.16	15.95
284	6.56	1.08	13.50	411.80	33.24	15.86
285	6.58	1.22	8.80	361.30	32.27	15.97
286	6.60	1.27	14.80	372.60	31.84	16.09
287	6.62	1.27	16.90	368.00	33.68	16.33
288	6.64	1.24	18.20	387.60	34.76	16.43

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
289	6.66	1.25	19.50	408.80	35.34	16.50
290	6.68	1.26	20.00	422.00	35.78	16.54
291	6.70	1.25	20.60	383.70	36.56	16.59
292	6.72	1.22	22.30	403.20	37.71	16.65
293	6.74	1.20	23.50	406.30	38.53	16.69
294	6.76	1.20	23.10	432.50	38.66	16.68
295	6.78	1.19	22.00	444.40	38.11	16.64
296	6.80	1.21	20.90	443.00	37.61	16.64
297	6.82	1.26	22.90	466.30	36.38	16.65
298	6.84	1.35	21.70	458.00	35.90	16.67
299	6.86	1.31	21.40	345.50	34.12	16.66
300	6.88	1.47	21.20	471.60	30.34	16.71
301	6.90	1.98	21.60	503.10	25.42	16.87
302	6.92	2.54	26.00	441.40	23.57	17.05
303	6.94	2.37	29.40	49.60	24.34	17.18
304	6.96	2.12	30.30	27.90	28.00	17.20
305	6.98	1.77	31.70	63.20	31.49	17.19
306	7.00	1.66	32.40	71.50	34.78	17.20
307	7.02	1.58	34.00	89.00	37.25	17.24
308	7.04	1.46	37.20	152.40	39.82	17.27
309	7.06	1.37	37.80	172.20	42.18	17.28
310	7.08	1.30	36.60	186.00	43.65	17.23
311	7.10	1.24	34.50	207.30	44.64	17.17
312	7.12	1.20	33.70	227.70	44.82	17.09
313	7.14	1.18	30.30	259.30	44.52	16.98
314	7.16	1.14	26.40	285.20	43.34	16.84
315	7.18	1.15	23.70	291.20	42.67	16.72
316	7.20	1.12	22.60	289.90	42.10	16.64
317	7.22	1.11	21.60	311.20	42.17	16.59
318	7.24	1.10	21.30	328.20	42.01	16.58
319	7.26	1.11	21.90	350.10	41.52	16.58
320	7.28	1.15	21.20	337.30	40.60	16.58
321	7.30	1.19	20.80	331.60	39.86	16.57
322	7.32	1.19	21.00	298.10	39.72	16.60
323	7.34	1.21	22.80	287.50	40.08	16.64
324	7.36	1.20	22.70	292.40	40.74	16.68
325	7.38	1.18	23.70	286.90	41.64	16.69
326	7.40	1.14	23.80	291.90	42.91	16.70
327	7.42	1.09	23.70	317.40	44.11	16.67
328	7.44	1.04	22.80	324.80	44.77	16.64
329	7.46	1.05	22.60	339.80	44.39	16.59
330	7.48	1.07	21.10	354.10	43.68	16.57
331	7.50	1.09	21.30	331.00	43.00	16.56
332	7.52	1.11	21.60	328.70	42.85	16.56
333	7.54	1.09	20.80	332.00	42.78	16.55
334	7.56	1.09	20.80	319.00	42.80	16.53
335	7.58	1.09	20.80	319.00	42.73	16.53
336	7.60	1.09	20.50	349.20	42.87	16.49

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
337	7.62	1.05	19.20	336.00	43.21	16.45
338	7.64	1.05	19.00	230.20	43.29	16.41
339	7.66	1.06	18.60	268.40	42.61	16.39
340	7.68	1.10	17.90	282.90	41.32	16.37
341	7.70	1.14	17.90	309.20	40.13	16.37
342	7.72	1.16	17.70	316.70	39.62	16.35
343	7.74	1.13	16.90	316.90	40.00	16.34
344	7.76	1.09	17.60	330.70	40.78	16.34
345	7.78	1.09	18.10	341.30	40.53	16.35
346	7.80	1.15	17.20	430.20	39.42	16.36
347	7.82	1.20	17.50	428.90	38.32	16.39
348	7.84	1.23	18.60	366.30	38.36	16.45
349	7.86	1.23	20.10	326.90	39.48	16.54
350	7.88	1.20	21.90	290.10	42.06	16.64
351	7.90	1.09	24.80	308.80	44.33	16.67
352	7.92	1.06	23.10	337.90	46.22	16.66
353	7.94	1.02	22.60	365.20	46.68	16.56
354	7.96	0.96	19.90	351.00	47.39	16.49
355	7.98	0.94	19.90	383.80	47.88	16.42
356	8.00	0.93	19.50	392.80	47.69	16.38
357	8.02	0.94	18.00	400.20	47.44	16.33
358	8.04	0.92	17.40	414.60	46.80	16.26
359	8.06	0.93	16.20	359.50	47.60	16.20
360	8.08	0.85	16.20	349.70	49.41	16.15
361	8.10	0.78	16.10	351.00	51.67	16.14
362	8.12	0.79	16.50	374.40	52.17	16.15
363	8.14	0.83	16.80	386.10	50.40	16.16
364	8.16	0.88	15.60	400.10	48.38	16.16
365	8.18	0.91	15.90	385.10	46.78	16.17
366	8.20	0.95	16.40	362.00	46.48	16.21
367	8.22	0.94	17.20	365.40	47.00	16.25
368	8.24	0.92	17.80	372.50	47.73	16.28
369	8.26	0.92	17.80	392.40	47.75	16.27
370	8.28	0.93	16.50	389.00	47.47	16.23
371	8.30	0.91	16.30	388.30	47.48	16.19
372	8.32	0.88	16.10	405.80	47.68	16.16
373	8.34	0.89	15.40	429.70	46.74	16.11
374	8.36	0.93	14.10	460.40	44.89	16.04
375	8.38	0.95	13.00	464.20	43.36	15.98
376	8.40	0.95	13.00	464.20	41.76	15.92
377	8.42	1.01	11.70	450.70	40.54	15.91
378	8.44	1.06	12.30	432.90	39.14	15.92
379	8.46	1.10	12.80	417.60	39.13	15.96
380	8.48	1.06	13.00	415.80	39.87	15.95
381	8.50	0.99	12.30	417.90	41.40	15.93
382	8.52	0.95	12.60	426.30	42.92	15.91
383	8.54	0.92	12.90	439.90	43.14	15.92
384	8.56	0.97	12.60	461.40	41.26	15.95

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
385	8.58	1.12	12.90	485.50	38.05	15.96
386	8.60	1.21	12.10	503.40	35.73	15.97
387	8.62	1.23	12.10	481.20	34.39	15.97
388	8.64	1.28	12.30	457.60	33.28	16.01
389	8.66	1.41	13.00	455.30	32.05	16.09
390	8.68	1.49	13.80	396.30	31.74	16.20
391	8.70	1.46	15.60	381.80	32.90	16.31
392	8.72	1.39	17.40	363.60	34.84	16.40
393	8.74	1.34	18.50	438.00	35.55	16.43
394	8.76	1.38	16.80	492.20	34.22	16.41
395	8.78	1.52	15.90	500.30	32.48	16.36
396	8.80	1.52	15.70	476.40	32.30	16.35
397	8.82	1.41	16.40	418.80	34.37	16.39
398	8.84	1.30	18.50	445.70	36.60	16.37
399	8.86	1.22	16.00	495.80	37.25	16.29
400	8.88	1.23	13.40	534.90	35.40	16.10
401	8.90	1.30	11.20	545.90	33.13	15.96
402	8.92	1.35	11.00	552.40	31.90	15.91
403	8.94	1.34	11.50	526.20	31.78	15.92
404	8.96	1.34	11.50	526.20	33.24	16.01
405	8.98	1.27	14.10	468.90	34.78	16.08
406	9.00	1.23	14.10	476.30	35.95	16.10
407	9.02	1.25	12.70	407.20	37.13	16.02
408	9.04	1.06	11.90	491.80	38.35	15.91
409	9.06	1.00	11.40	552.20	40.19	15.82
410	9.08	0.98	10.60	578.50	40.28	15.77
411	9.10	1.00	10.60	578.00	39.42	15.76
412	9.12	1.07	10.90	570.20	37.18	15.77
413	9.14	1.21	10.20	506.30	35.48	15.79
414	9.16	1.21	10.70	540.80	34.71	15.81
415	9.18	1.17	11.00	587.60	35.36	15.82
416	9.20	1.14	10.80	574.30	35.95	15.83
417	9.22	1.15	11.10	588.90	35.21	15.85
418	9.24	1.28	11.40	578.50	34.07	15.91
419	9.26	1.33	11.90	581.60	32.63	15.94
420	9.28	1.37	11.30	566.50	31.35	15.95
421	9.30	1.49	11.40	535.00	30.13	16.02
422	9.32	1.61	13.30	496.60	29.88	16.15
423	9.34	1.59	15.00	445.90	31.32	16.26
424	9.36	1.42	15.80	452.70	33.12	16.28
425	9.38	1.37	14.60	486.80	34.51	16.24
426	9.40	1.36	14.30	482.10	34.51	16.18
427	9.42	1.35	13.60	460.50	34.65	16.13
428	9.44	1.32	13.20	414.60	35.77	16.08
429	9.46	1.19	13.10	392.20	37.69	16.08
430	9.48	1.15	14.30	426.50	39.39	16.08
431	9.50	1.15	13.80	430.50	40.05	16.08
432	9.52	1.11	13.20	442.80	39.49	16.02

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
433	9.54	1.15	12.30	441.50	38.94	15.99
434	9.56	1.18	12.70	411.30	39.79	16.00
435	9.58	1.06	13.80	348.70	42.19	16.03
436	9.60	0.98	14.00	352.30	45.25	16.02
437	9.62	0.94	13.50	383.30	46.47	15.94
438	9.64	0.90	11.60	401.20	46.34	15.86
439	9.66	0.92	11.50	417.10	44.86	15.75
440	9.68	0.96	10.10	438.00	41.18	15.71
441	9.70	1.16	9.50	423.50	38.23	15.70
442	9.72	1.19	10.50	373.20	36.98	15.82
443	9.74	1.20	12.60	368.20	38.03	15.92
444	9.76	1.15	12.70	414.00	38.22	15.99
445	9.78	1.23	12.60	411.70	37.15	15.97
446	9.80	1.29	11.40	354.60	36.85	15.96
447	9.82	1.19	12.30	313.40	38.93	16.00
448	9.84	1.07	14.50	316.90	42.96	16.06
449	9.86	0.98	14.80	363.70	46.33	16.05
450	9.88	0.92	13.00	354.40	49.00	15.97
451	9.90	0.82	12.80	393.40	50.19	15.88
452	9.92	0.84	12.20	431.10	45.71	15.88
453	9.94	1.19	11.70	460.20	38.37	15.87
454	9.96	1.43	10.30	451.20	32.62	16.07
455	9.98	1.79	16.10	63.70	31.82	16.46
456	10.00	1.86	24.60	20.90	31.44	16.92
457	10.02	2.25	32.00	-0.20	32.83	17.30
458	10.04	2.23	43.00	-33.60	34.95	17.65
459	10.06	2.15	58.20	-48.00	40.17	18.01
460	10.08	2.06	81.90	-25.10	45.01	18.31
461	10.10	2.08	98.90	-10.60	48.91	18.55
462	10.12	2.10	115.80	-11.70	53.91	18.64
463	10.14	1.60	114.70	10.50	57.65	18.65
464	10.16	1.67	109.10	75.00	53.65	18.65
465	10.18	2.51	105.30	148.70	38.28	18.67
466	10.20	4.18	83.50	279.90	24.99	18.76
467	10.22	6.30	89.30	203.20	15.70	19.10
468	10.24	10.91	142.70	-16.90	11.87	19.56
469	10.26	13.51	185.80	-48.10	10.83	19.99
470	10.28	13.79	235.00	-58.90	10.51	20.23
471	10.30	15.49	251.50	-63.70	10.58	20.40
472	10.32	16.34	278.00	-64.50	10.26	20.52
473	10.34	16.91	299.60	-66.70	10.10	20.62
474	10.36	17.96	311.20	-66.30	9.80	20.68
475	10.38	18.52	311.20	-66.30	9.83	20.80
476	10.40	19.37	381.00	-66.20	9.65	20.95
477	10.42	22.42	430.70	-64.60	10.06	21.14
478	10.44	21.79	482.30	-54.50	9.73	21.31
479	10.46	25.62	544.50	-56.70	9.78	21.42
480	10.48	25.62	554.30	-52.40	8.93	21.53

:: Field input data :: (continued)

Point ID	Depth (m)	q_c (MPa)	f_s (kPa)	u (kPa)	Fines content (%)	Unit weight (kN/m^3)
481	10.50	29.52	584.80	-50.70	8.51	21.58

Abbreviations

Depth:	Depth from free surface, at which CPT was performed (m)
q_c:	Measured cone resistance (MPa)
f_s:	Sleeve friction resistance (kPa)
u:	Pore pressure (kPa)
Fines content:	Percentage of fines in soil (%)
Unit weight:	Bulk soil unit weight (kN/m^3)

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
1	6.57	120.63	2.84	117.78	0.95	0.063	1.38	0.046	1.00	1.00	0.046	No
2	6.59	120.93	3.04	117.89	0.95	0.064	1.38	0.046	1.00	1.00	0.046	No
3	6.61	121.25	3.24	118.01	0.95	0.064	1.38	0.046	1.00	1.00	0.046	No
4	6.63	121.57	3.43	118.14	0.95	0.064	1.38	0.046	1.00	1.00	0.046	No
5	6.65	121.90	3.63	118.27	0.95	0.064	1.38	0.046	1.00	1.00	0.046	No
6	6.67	122.23	3.83	118.40	0.95	0.064	1.38	0.046	1.00	1.00	0.046	No
7	6.69	122.56	4.02	118.54	0.95	0.064	1.38	0.046	1.00	1.00	0.046	No
8	6.71	122.89	4.22	118.68	0.95	0.064	1.38	0.047	1.00	1.00	0.047	No
9	6.73	123.23	4.41	118.81	0.95	0.064	1.38	0.047	1.00	1.00	0.047	No
10	6.75	123.57	4.61	118.95	0.95	0.064	1.38	0.047	1.00	1.00	0.047	No
11	6.77	123.90	4.81	119.10	0.95	0.064	1.38	0.047	1.00	1.00	0.047	No
12	6.79	124.24	5.00	119.24	0.95	0.064	1.38	0.047	1.00	1.00	0.047	No
13	6.81	124.58	5.20	119.38	0.95	0.064	1.38	0.047	1.00	1.00	0.047	No
14	6.83	124.91	5.40	119.52	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
15	6.85	125.25	5.59	119.66	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
16	6.87	125.59	5.79	119.80	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
17	6.89	125.93	5.98	119.95	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
18	6.91	126.27	6.18	120.09	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
19	6.93	126.62	6.38	120.24	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
20	6.95	126.96	6.57	120.39	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
21	6.97	127.31	6.77	120.54	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
22	6.99	127.65	6.97	120.69	0.95	0.065	1.38	0.047	1.00	1.00	0.047	No
23	7.01	128.00	7.16	120.84	0.95	0.065	1.38	0.047	1.00	1.00	2.000	Yes
24	7.03	128.35	7.36	120.99	0.95	0.065	1.38	0.048	1.00	1.00	2.000	Yes
25	7.05	128.70	7.55	121.15	0.95	0.065	1.38	0.048	1.00	1.00	2.000	Yes
26	7.07	129.06	7.75	121.31	0.95	0.066	1.38	0.048	1.00	1.00	2.000	Yes
27	7.09	129.41	7.95	121.47	0.95	0.066	1.38	0.048	1.00	1.00	2.000	Yes
28	7.11	129.77	8.14	121.63	0.95	0.066	1.38	0.048	1.00	1.00	2.000	Yes
29	7.13	130.14	8.34	121.80	0.95	0.066	1.38	0.048	1.00	1.00	2.000	Yes
30	7.15	130.50	8.53	121.97	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
31	7.17	130.87	8.73	122.14	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
32	7.19	131.24	8.93	122.31	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
33	7.21	131.61	9.12	122.48	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
34	7.23	131.98	9.32	122.66	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
35	7.25	132.34	9.52	122.83	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
36	7.27	132.70	9.71	122.99	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
37	7.29	133.06	9.91	123.15	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
38	7.31	133.42	10.10	123.32	0.95	0.066	1.38	0.048	1.00	1.00	0.048	No
39	7.33	133.78	10.30	123.48	0.95	0.067	1.38	0.048	1.00	1.00	0.048	No
40	7.35	134.14	10.50	123.64	0.94	0.067	1.38	0.048	1.00	1.00	0.048	No
41	7.37	134.50	10.69	123.80	0.94	0.067	1.38	0.048	1.00	1.00	0.048	No
42	7.39	134.85	10.89	123.96	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
43	7.41	135.21	11.09	124.13	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
44	7.43	135.58	11.28	124.30	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
45	7.45	135.95	11.48	124.48	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
46	7.47	136.33	11.67	124.65	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
47	7.49	136.70	11.87	124.83	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
48	7.51	137.08	12.07	125.02	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
49	7.53	137.46	12.26	125.19	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
50	7.55	137.83	12.46	125.37	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
51	7.57	138.20	12.65	125.54	0.94	0.067	1.38	0.049	1.00	1.00	0.049	No
52	7.59	138.56	12.85	125.71	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
53	7.61	138.92	13.05	125.88	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
54	7.63	139.29	13.24	126.04	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
55	7.65	139.65	13.44	126.21	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
56	7.67	140.01	13.64	126.37	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
57	7.69	140.37	13.83	126.54	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
58	7.71	140.73	14.03	126.70	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
59	7.73	141.09	14.22	126.86	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
60	7.75	141.44	14.42	127.02	0.94	0.068	1.38	0.049	1.00	1.00	0.049	No
61	7.77	141.80	14.62	127.18	0.94	0.068	1.38	0.050	1.00	1.00	0.050	No
62	7.79	142.16	14.81	127.34	0.94	0.068	1.38	0.050	1.00	1.00	0.050	No
63	7.81	142.51	15.01	127.50	0.94	0.068	1.38	0.050	1.00	1.00	0.050	No
64	7.83	142.87	15.21	127.66	0.94	0.068	1.38	0.050	1.00	1.00	0.050	No
65	7.85	143.22	15.40	127.82	0.94	0.068	1.38	0.050	1.00	1.00	0.050	No
66	7.87	143.57	15.60	127.98	0.94	0.068	1.38	0.050	1.00	1.00	0.050	No
67	7.89	143.93	15.79	128.13	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
68	7.91	144.28	15.99	128.29	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
69	7.93	144.64	16.19	128.45	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
70	7.95	144.99	16.38	128.61	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
71	7.97	145.35	16.58	128.77	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
72	7.99	145.71	16.78	128.94	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
73	8.01	146.08	16.97	129.11	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
74	8.03	146.45	17.17	129.28	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
75	8.05	146.82	17.36	129.45	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
76	8.07	147.19	17.56	129.63	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
77	8.09	147.55	17.76	129.80	0.94	0.069	1.38	0.050	1.00	1.00	0.050	No
78	8.11	147.92	17.95	129.97	0.94	0.069	1.38	0.050	1.00	1.00	2.000	Yes
79	8.13	148.29	18.15	130.14	0.94	0.069	1.38	0.050	1.00	1.00	2.000	Yes
80	8.15	148.65	18.34	130.31	0.94	0.069	1.38	0.050	1.00	1.00	2.000	Yes
81	8.17	149.02	18.54	130.48	0.94	0.069	1.38	0.050	1.00	1.00	2.000	Yes
82	8.19	149.38	18.74	130.65	0.93	0.069	1.38	0.050	1.00	1.00	2.000	Yes
83	8.21	149.75	18.93	130.82	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
84	8.23	150.12	19.13	130.99	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
85	8.25	150.48	19.33	131.15	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
86	8.27	150.84	19.52	131.32	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
87	8.29	151.20	19.72	131.48	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
88	8.31	151.55	19.91	131.63	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
89	8.33	151.90	20.11	131.79	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
90	8.35	152.25	20.31	131.95	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
91	8.37	152.61	20.50	132.10	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
92	8.39	152.96	20.70	132.26	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
93	8.41	153.32	20.90	132.43	0.93	0.070	1.38	0.051	1.00	1.00	2.000	Yes
94	8.43	153.68	21.09	132.59	0.93	0.070	1.38	0.051	1.00	1.00	0.051	No
95	8.45	154.04	21.29	132.76	0.93	0.070	1.38	0.051	1.00	1.00	0.051	No
96	8.47	154.40	21.48	132.92	0.93	0.070	1.38	0.051	1.00	1.00	0.051	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
97	8.49	154.76	21.68	133.08	0.93	0.070	1.38	0.051	1.00	1.00	0.051	No
98	8.51	155.11	21.88	133.23	0.93	0.070	1.38	0.051	1.00	1.00	0.051	No
99	8.53	155.45	22.07	133.38	0.93	0.070	1.38	0.051	1.00	1.00	0.051	No
100	8.55	155.80	22.27	133.53	0.93	0.071	1.38	0.051	1.00	1.00	0.051	No
101	8.57	156.14	22.46	133.68	0.93	0.071	1.38	0.051	1.00	1.00	0.051	No
102	8.59	156.49	22.66	133.82	0.93	0.071	1.38	0.051	1.00	1.00	0.051	No
103	8.61	156.83	22.86	133.97	0.93	0.071	1.38	0.051	1.00	1.00	0.051	No
104	8.63	157.18	23.05	134.13	0.93	0.071	1.38	0.051	1.00	1.00	0.051	No
105	8.65	157.53	23.25	134.28	0.93	0.071	1.38	0.051	1.00	1.00	0.051	No
106	8.67	157.88	23.45	134.43	0.93	0.071	1.38	0.051	1.00	1.00	0.051	No
107	8.69	158.23	23.64	134.58	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
108	8.71	158.57	23.84	134.73	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
109	8.73	158.92	24.03	134.88	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
110	8.75	159.26	24.23	135.03	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
111	8.77	159.60	24.43	135.17	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
112	8.79	159.95	24.62	135.32	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
113	8.81	160.30	24.82	135.48	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
114	8.83	160.65	25.02	135.64	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
115	8.85	161.01	25.21	135.80	0.93	0.071	1.38	0.052	1.00	1.00	0.052	No
116	8.87	161.37	25.41	135.96	0.92	0.071	1.38	0.052	1.00	1.00	0.052	No
117	8.89	161.73	25.60	136.13	0.92	0.071	1.38	0.052	1.00	1.00	0.052	No
118	8.91	162.09	25.80	136.29	0.92	0.071	1.38	0.052	1.00	1.00	0.052	No
119	8.93	162.46	26.00	136.46	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
120	8.95	162.82	26.19	136.63	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
121	8.97	163.18	26.39	136.80	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
122	8.99	163.55	26.59	136.96	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
123	9.01	163.91	26.78	137.13	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
124	9.03	164.27	26.98	137.29	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
125	9.05	164.64	27.17	137.46	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
126	9.07	165.01	27.37	137.64	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
127	9.09	165.37	27.57	137.80	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
128	9.11	165.73	27.76	137.97	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
129	9.13	166.10	27.96	138.14	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
130	9.15	166.45	28.15	138.30	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
131	9.17	166.81	28.35	138.46	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
132	9.19	167.16	28.55	138.62	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
133	9.21	167.51	28.74	138.77	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
134	9.23	167.86	28.94	138.92	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
135	9.25	168.20	29.14	139.06	0.92	0.072	1.38	0.052	1.00	1.00	0.052	No
136	9.27	168.54	29.33	139.21	0.92	0.072	1.38	0.053	1.00	1.00	0.053	No
137	9.29	168.88	29.53	139.35	0.92	0.072	1.38	0.053	1.00	1.00	0.053	No
138	9.31	169.23	29.72	139.50	0.92	0.072	1.38	0.053	1.00	1.00	0.053	No
139	9.33	169.57	29.92	139.65	0.92	0.072	1.38	0.053	1.00	1.00	0.053	No
140	9.35	169.91	30.12	139.79	0.92	0.072	1.38	0.053	1.00	1.00	0.053	No
141	9.37	170.24	30.31	139.93	0.92	0.072	1.38	0.053	1.00	1.00	0.053	No
142	9.39	170.58	30.51	140.07	0.92	0.073	1.38	0.053	1.00	1.00	0.053	No
143	9.41	170.91	30.71	140.21	0.92	0.073	1.38	0.053	1.00	1.00	0.053	No
144	9.43	171.25	30.90	140.35	0.92	0.073	1.38	0.053	1.00	1.00	0.053	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
145	9.45	171.59	31.10	140.49	0.92	0.073	1.38	0.053	1.00	1.00	0.053	No
146	9.47	171.92	31.29	140.63	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
147	9.49	172.26	31.49	140.77	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
148	9.51	172.59	31.69	140.90	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
149	9.53	172.92	31.88	141.04	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
150	9.55	173.25	32.08	141.18	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
151	9.57	173.58	32.27	141.31	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
152	9.59	173.91	32.47	141.44	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
153	9.61	174.25	32.67	141.58	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
154	9.63	174.58	32.86	141.71	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
155	9.65	174.91	33.06	141.85	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
156	9.67	175.24	33.26	141.99	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
157	9.69	175.58	33.45	142.12	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
158	9.71	175.91	33.65	142.27	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
159	9.73	176.26	33.84	142.42	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
160	9.75	176.61	34.04	142.57	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
161	9.77	176.96	34.24	142.73	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
162	9.79	177.32	34.43	142.88	0.91	0.073	1.38	0.053	1.00	1.00	2.000	Yes
163	9.81	177.67	34.63	143.04	0.91	0.073	1.38	0.053	1.00	1.00	0.053	No
164	9.83	178.02	34.83	143.20	0.91	0.073	1.38	0.053	1.00	1.00	0.053	No
165	9.85	178.38	35.02	143.35	0.91	0.073	1.38	0.053	1.00	1.00	0.053	No
166	9.87	178.73	35.22	143.51	0.91	0.073	1.38	0.053	1.00	1.00	0.053	No
167	9.89	179.08	35.41	143.67	0.91	0.073	1.38	0.053	1.00	1.00	0.053	No
168	9.91	179.44	35.61	143.83	0.91	0.074	1.38	0.053	1.00	1.00	0.053	No
169	9.93	179.79	35.81	143.98	0.91	0.074	1.38	0.053	1.00	1.00	0.053	No
170	9.95	180.13	36.00	144.13	0.91	0.074	1.38	0.053	1.00	1.00	0.053	No
171	9.97	180.48	36.20	144.28	0.91	0.074	1.38	0.054	1.00	1.00	0.054	No
172	9.99	180.82	36.40	144.43	0.91	0.074	1.38	0.054	1.00	1.00	0.054	No
173	10.01	181.16	36.59	144.57	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
174	10.03	181.50	36.79	144.71	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
175	10.05	181.83	36.98	144.85	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
176	10.07	182.16	37.18	144.98	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
177	10.09	182.50	37.38	145.12	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
178	10.11	182.83	37.57	145.26	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
179	10.13	183.16	37.77	145.39	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
180	10.15	183.49	37.96	145.53	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
181	10.17	183.83	38.16	145.67	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
182	10.19	184.16	38.36	145.80	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
183	10.21	184.49	38.55	145.94	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
184	10.23	184.82	38.75	146.07	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
185	10.25	185.15	38.95	146.20	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
186	10.27	185.48	39.14	146.34	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
187	10.29	185.80	39.34	146.46	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
188	10.31	186.13	39.53	146.59	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
189	10.33	186.45	39.73	146.72	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
190	10.35	186.77	39.93	146.84	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
191	10.37	187.08	40.12	146.96	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
192	10.39	187.40	40.32	147.08	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
193	10.41	187.72	40.52	147.20	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
194	10.43	188.04	40.71	147.33	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
195	10.45	188.36	40.91	147.45	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
196	10.47	188.67	41.10	147.57	0.90	0.074	1.38	0.054	1.00	1.00	0.054	No
197	10.49	188.99	41.30	147.69	0.89	0.074	1.38	0.054	1.00	1.00	0.054	No
198	10.51	189.31	41.50	147.82	0.89	0.074	1.38	0.054	1.00	1.00	0.054	No
199	10.53	189.63	41.69	147.94	0.89	0.074	1.38	0.054	1.00	1.00	0.054	No
200	10.55	189.95	41.89	148.06	0.89	0.074	1.38	0.054	1.00	1.00	0.054	No
201	10.57	190.26	42.08	148.17	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
202	10.59	190.57	42.28	148.29	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
203	10.61	190.89	42.48	148.41	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
204	10.63	191.20	42.67	148.52	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
205	10.65	191.51	42.87	148.64	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
206	10.67	191.82	43.07	148.75	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
207	10.69	192.13	43.26	148.87	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
208	10.71	192.44	43.46	148.98	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
209	10.73	192.75	43.65	149.10	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
210	10.75	193.06	43.85	149.21	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
211	10.77	193.37	44.05	149.32	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
212	10.79	193.68	44.24	149.44	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
213	10.81	193.99	44.44	149.55	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
214	10.83	194.30	44.64	149.66	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
215	10.85	194.60	44.83	149.77	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
216	10.87	194.91	45.03	149.88	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
217	10.89	195.22	45.22	150.00	0.89	0.075	1.38	0.054	1.00	1.00	0.054	No
218	10.91	195.53	45.42	150.11	0.88	0.075	1.38	0.054	1.00	1.00	0.054	No
219	10.93	195.84	45.62	150.22	0.88	0.075	1.38	0.054	1.00	1.00	0.054	No
220	10.95	196.15	45.81	150.34	0.88	0.075	1.38	0.054	1.00	1.00	0.054	No
221	10.97	196.46	46.01	150.45	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
222	10.99	196.77	46.21	150.56	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
223	11.01	197.07	46.40	150.67	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
224	11.03	197.38	46.60	150.78	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
225	11.05	197.68	46.79	150.89	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
226	11.07	198.00	46.99	151.01	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
227	11.09	198.31	47.19	151.13	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
228	11.11	198.63	47.38	151.25	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
229	11.13	198.95	47.58	151.37	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
230	11.15	199.27	47.77	151.49	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
231	11.17	199.58	47.97	151.61	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
232	11.19	199.90	48.17	151.73	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
233	11.21	200.21	48.36	151.85	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
234	11.23	200.52	48.56	151.97	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
235	11.25	200.84	48.76	152.08	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
236	11.27	201.15	48.95	152.19	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
237	11.29	201.46	49.15	152.31	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
238	11.31	201.77	49.34	152.42	0.88	0.075	1.38	0.055	1.00	1.00	0.055	No
239	11.33	202.08	49.54	152.53	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
240	11.35	202.39	49.74	152.65	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
241	11.37	202.70	49.93	152.76	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
242	11.39	203.01	50.13	152.88	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
243	11.41	203.32	50.33	152.99	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
244	11.43	203.63	50.52	153.11	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
245	11.45	203.94	50.72	153.22	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
246	11.47	204.25	50.91	153.34	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
247	11.49	204.57	51.11	153.46	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
248	11.51	204.88	51.31	153.57	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
249	11.53	205.19	51.50	153.69	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
250	11.55	205.50	51.70	153.80	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
251	11.57	205.81	51.89	153.92	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
252	11.59	206.12	52.09	154.03	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
253	11.61	206.44	52.29	154.15	0.87	0.075	1.38	0.055	1.00	1.00	0.055	No
254	11.63	206.75	52.48	154.26	0.87	0.076	1.38	0.055	1.00	1.00	0.055	No
255	11.65	207.06	52.68	154.38	0.87	0.076	1.38	0.055	1.00	1.00	0.055	No
256	11.67	207.37	52.88	154.49	0.87	0.076	1.38	0.055	1.00	1.00	0.055	No
257	11.69	207.68	53.07	154.61	0.87	0.076	1.38	0.055	1.00	1.00	0.055	No
258	11.71	207.99	53.27	154.72	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
259	11.73	208.30	53.46	154.83	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
260	11.75	208.61	53.66	154.95	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
261	11.77	208.92	53.86	155.06	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
262	11.79	209.23	54.05	155.17	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
263	11.81	209.54	54.25	155.29	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
264	11.83	209.85	54.45	155.40	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
265	11.85	210.16	54.64	155.52	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
266	11.87	210.47	54.84	155.63	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
267	11.89	210.78	55.03	155.74	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
268	11.91	211.09	55.23	155.86	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
269	11.93	211.40	55.43	155.97	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
270	11.95	211.71	55.62	156.09	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
271	11.97	212.02	55.82	156.20	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
272	11.99	212.33	56.02	156.32	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
273	12.01	212.64	56.21	156.43	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
274	12.03	212.95	56.41	156.55	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
275	12.05	213.27	56.60	156.66	0.86	0.076	1.38	0.055	1.00	1.00	0.055	No
276	12.07	213.58	56.80	156.78	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
277	12.09	213.90	57.00	156.90	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
278	12.11	214.22	57.19	157.02	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
279	12.13	214.53	57.39	157.14	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
280	12.15	214.85	57.58	157.27	0.85	0.076	1.38	0.055	1.00	1.00	2.000	Yes
281	12.17	215.17	57.78	157.39	0.85	0.076	1.38	0.055	1.00	1.00	2.000	Yes
282	12.19	215.49	57.98	157.51	0.85	0.076	1.38	0.055	1.00	1.00	2.000	Yes
283	12.21	215.81	58.17	157.63	0.85	0.076	1.38	0.055	1.00	1.00	2.000	Yes
284	12.23	216.12	58.37	157.75	0.85	0.076	1.38	0.055	1.00	1.00	2.000	Yes
285	12.25	216.44	58.57	157.88	0.85	0.076	1.38	0.055	1.00	1.00	2.000	Yes
286	12.27	216.76	58.76	158.00	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
287	12.29	217.09	58.96	158.13	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
288	12.31	217.42	59.15	158.27	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
289	12.33	217.75	59.35	158.40	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
290	12.35	218.08	59.55	158.53	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
291	12.37	218.41	59.74	158.67	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
292	12.39	218.75	59.94	158.81	0.85	0.076	1.38	0.055	1.00	1.00	0.055	No
293	12.41	219.08	60.14	158.94	0.84	0.076	1.38	0.055	1.00	1.00	0.055	No
294	12.43	219.41	60.33	159.08	0.84	0.076	1.38	0.055	1.00	1.00	0.055	No
295	12.45	219.75	60.53	159.22	0.84	0.076	1.38	0.055	1.00	1.00	0.055	No
296	12.47	220.08	60.72	159.35	0.84	0.076	1.38	0.055	1.00	1.00	0.055	No
297	12.49	220.41	60.92	159.49	0.84	0.076	1.38	0.055	1.00	1.00	0.055	No
298	12.51	220.74	61.12	159.63	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
299	12.53	221.08	61.31	159.77	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
300	12.55	221.41	61.51	159.90	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
301	12.57	221.75	61.70	160.04	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
302	12.59	222.09	61.90	160.19	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
303	12.61	222.43	62.10	160.34	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
304	12.63	222.78	62.29	160.48	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
305	12.65	223.12	62.49	160.63	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
306	12.67	223.47	62.69	160.78	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
307	12.69	223.81	62.88	160.93	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
308	12.71	224.16	63.08	161.08	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
309	12.73	224.50	63.27	161.23	0.84	0.076	1.38	0.055	1.00	1.00	2.000	Yes
310	12.75	224.85	63.47	161.38	0.83	0.076	1.38	0.055	1.00	1.00	2.000	Yes
311	12.77	225.19	63.67	161.52	0.83	0.076	1.38	0.055	1.00	1.00	0.055	No
312	12.79	225.53	63.86	161.67	0.83	0.076	1.38	0.055	1.00	1.00	0.055	No
313	12.81	225.87	64.06	161.81	0.83	0.076	1.38	0.055	1.00	1.00	0.055	No
314	12.83	226.21	64.26	161.95	0.83	0.076	1.38	0.055	1.00	1.00	0.055	No
315	12.85	226.54	64.45	162.09	0.83	0.076	1.38	0.055	1.00	1.00	0.055	No
316	12.87	226.87	64.65	162.23	0.83	0.076	1.38	0.055	1.00	1.00	0.055	No
317	12.89	227.21	64.84	162.36	0.83	0.076	1.38	0.055	1.00	1.00	0.055	No
318	12.91	227.54	65.04	162.50	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
319	12.93	227.87	65.24	162.63	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
320	12.95	228.20	65.43	162.77	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
321	12.97	228.53	65.63	162.90	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
322	12.99	228.87	65.83	163.04	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
323	13.01	229.20	66.02	163.18	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
324	13.03	229.53	66.22	163.31	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
325	13.05	229.87	66.41	163.45	0.83	0.075	1.38	0.055	1.00	1.00	0.055	No
326	13.07	230.20	66.61	163.59	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
327	13.09	230.53	66.81	163.73	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
328	13.11	230.87	67.00	163.86	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
329	13.13	231.20	67.20	164.00	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
330	13.15	231.53	67.39	164.13	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
331	13.17	231.86	67.59	164.27	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
332	13.19	232.19	67.79	164.40	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
333	13.21	232.52	67.98	164.54	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
334	13.23	232.85	68.18	164.67	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
335	13.25	233.18	68.38	164.81	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
336	13.27	233.51	68.57	164.94	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
337	13.29	233.84	68.77	165.07	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
338	13.31	234.17	68.96	165.21	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
339	13.33	234.50	69.16	165.34	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
340	13.35	234.83	69.36	165.47	0.82	0.075	1.38	0.055	1.00	1.00	0.055	No
341	13.37	235.15	69.55	165.60	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
342	13.39	235.48	69.75	165.73	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
343	13.41	235.81	69.95	165.86	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
344	13.43	236.13	70.14	165.99	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
345	13.45	236.46	70.34	166.12	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
346	13.47	236.79	70.53	166.25	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
347	13.49	237.12	70.73	166.38	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
348	13.51	237.44	70.93	166.52	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
349	13.53	237.77	71.12	166.65	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
350	13.55	238.11	71.32	166.79	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
351	13.57	238.44	71.51	166.93	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
352	13.59	238.77	71.71	167.06	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
353	13.61	239.11	71.91	167.20	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
354	13.63	239.44	72.10	167.33	0.81	0.075	1.38	0.055	1.00	1.00	0.055	No
355	13.65	239.76	72.30	167.46	0.81	0.075	1.38	0.054	1.00	1.00	0.054	No
356	13.67	240.09	72.50	167.60	0.81	0.075	1.38	0.054	1.00	1.00	0.054	No
357	13.69	240.42	72.69	167.73	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
358	13.71	240.74	72.89	167.85	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
359	13.73	241.07	73.08	167.98	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
360	13.75	241.39	73.28	168.11	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
361	13.77	241.71	73.48	168.24	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
362	13.79	242.04	73.67	168.36	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
363	13.81	242.36	73.87	168.49	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
364	13.83	242.68	74.07	168.62	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
365	13.85	243.01	74.26	168.74	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
366	13.87	243.33	74.46	168.87	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
367	13.89	243.66	74.65	169.00	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
368	13.91	243.98	74.85	169.13	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
369	13.93	244.31	75.05	169.26	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
370	13.95	244.63	75.24	169.39	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
371	13.97	244.95	75.44	169.52	0.80	0.075	1.38	0.054	1.00	1.00	0.054	No
372	13.99	245.28	75.64	169.64	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
373	14.01	245.60	75.83	169.77	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
374	14.03	245.92	76.03	169.89	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
375	14.05	246.24	76.22	170.02	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
376	14.07	246.56	76.42	170.14	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
377	14.09	246.88	76.62	170.26	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
378	14.11	247.20	76.81	170.38	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
379	14.13	247.51	77.01	170.51	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
380	14.15	247.83	77.20	170.63	0.79	0.075	1.38	0.054	1.00	1.00	0.054	No
381	14.17	248.15	77.40	170.75	0.79	0.074	1.38	0.054	1.00	1.00	0.054	No
382	14.19	248.47	77.60	170.87	0.79	0.074	1.38	0.054	1.00	1.00	0.054	No
383	14.21	248.79	77.79	171.00	0.79	0.074	1.38	0.054	1.00	1.00	2.000	Yes
384	14.23	249.11	77.99	171.12	0.79	0.074	1.38	0.054	1.00	1.00	2.000	Yes

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
385	14.25	249.43	78.19	171.24	0.79	0.074	1.38	0.054	1.00	1.00	2.000	Yes
386	14.27	249.75	78.38	171.36	0.79	0.074	1.38	0.054	1.00	1.00	2.000	Yes
387	14.29	250.07	78.58	171.49	0.78	0.074	1.38	0.054	1.00	1.00	2.000	Yes
388	14.31	250.39	78.77	171.61	0.78	0.074	1.38	0.054	1.00	1.00	2.000	Yes
389	14.33	250.71	78.97	171.74	0.78	0.074	1.38	0.054	1.00	1.00	2.000	Yes
390	14.35	251.03	79.17	171.87	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
391	14.37	251.36	79.36	171.99	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
392	14.39	251.69	79.56	172.13	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
393	14.41	252.01	79.76	172.26	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
394	14.43	252.34	79.95	172.39	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
395	14.45	252.67	80.15	172.52	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
396	14.47	253.00	80.34	172.65	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
397	14.49	253.32	80.54	172.78	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
398	14.51	253.65	80.74	172.92	0.78	0.074	1.38	0.054	1.00	1.00	0.054	No
399	14.53	253.98	80.93	173.05	0.78	0.074	1.38	0.054	1.00	1.00	2.000	Yes
400	14.55	254.30	81.13	173.17	0.78	0.074	1.38	0.054	1.00	1.00	2.000	Yes
401	14.57	254.62	81.32	173.29	0.78	0.074	1.38	0.054	1.00	1.00	2.000	Yes
402	14.59	254.94	81.52	173.42	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
403	14.61	255.26	81.72	173.54	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
404	14.63	255.58	81.91	173.66	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
405	14.65	255.90	82.11	173.79	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
406	14.67	256.22	82.31	173.91	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
407	14.69	256.54	82.50	174.04	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
408	14.71	256.86	82.70	174.16	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
409	14.73	257.17	82.89	174.28	0.77	0.074	1.38	0.054	1.00	1.00	2.000	Yes
410	14.75	257.49	83.09	174.40	0.77	0.074	1.38	0.054	1.00	1.00	0.054	No
411	14.77	257.80	83.29	174.52	0.77	0.074	1.38	0.054	1.00	1.00	0.054	No
412	14.79	258.12	83.48	174.64	0.77	0.074	1.38	0.054	1.00	1.00	0.054	No
413	14.81	258.44	83.68	174.76	0.77	0.074	1.38	0.054	1.00	1.00	0.054	No
414	14.83	258.75	83.88	174.88	0.77	0.074	1.38	0.054	1.00	1.00	0.054	No
415	14.85	259.07	84.07	175.00	0.77	0.074	1.38	0.054	1.00	1.00	0.054	No
416	14.87	259.38	84.27	175.12	0.77	0.074	1.38	0.054	1.00	1.00	0.054	No
417	14.89	259.70	84.46	175.24	0.76	0.074	1.38	0.054	1.00	1.00	2.000	Yes
418	14.91	260.02	84.66	175.36	0.76	0.074	1.38	0.053	1.00	1.00	2.000	Yes
419	14.93	260.34	84.86	175.48	0.76	0.074	1.38	0.053	1.00	1.00	2.000	Yes
420	14.95	260.66	85.05	175.61	0.76	0.074	1.38	0.053	1.00	1.00	2.000	Yes
421	14.97	260.98	85.25	175.73	0.76	0.074	1.38	0.053	1.00	1.00	2.000	Yes
422	14.99	261.30	85.45	175.86	0.76	0.074	1.38	0.053	1.00	1.00	2.000	Yes
423	15.01	261.63	85.64	175.99	0.76	0.073	1.38	0.053	1.00	1.00	2.000	Yes
424	15.03	261.95	85.84	176.11	0.76	0.073	1.38	0.053	1.00	1.00	2.000	Yes
425	15.05	262.28	86.03	176.24	0.76	0.073	1.38	0.053	1.00	1.00	2.000	Yes
426	15.07	262.60	86.23	176.37	0.76	0.073	1.38	0.053	1.00	1.00	0.053	No
427	15.09	262.92	86.43	176.50	0.76	0.073	1.38	0.053	1.00	1.00	0.053	No
428	15.11	263.24	86.62	176.62	0.76	0.073	1.38	0.053	1.00	1.00	0.053	No
429	15.13	263.57	86.82	176.75	0.76	0.073	1.38	0.053	1.00	1.00	0.053	No
430	15.15	263.89	87.01	176.87	0.76	0.073	1.38	0.053	1.00	1.00	0.053	No
431	15.17	264.21	87.21	177.00	0.76	0.073	1.38	0.053	1.00	1.00	0.053	No
432	15.19	264.53	87.41	177.12	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
433	15.21	264.85	87.60	177.25	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
434	15.23	265.17	87.80	177.37	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
435	15.25	265.49	88.00	177.49	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
436	15.27	265.81	88.19	177.62	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
437	15.29	266.13	88.39	177.74	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
438	15.31	266.45	88.58	177.86	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
439	15.33	266.76	88.78	177.98	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
440	15.35	267.08	88.98	178.10	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
441	15.37	267.39	89.17	178.22	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
442	15.39	267.71	89.37	178.34	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
443	15.41	268.03	89.57	178.46	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
444	15.43	268.35	89.76	178.58	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
445	15.45	268.66	89.96	178.71	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
446	15.47	268.98	90.15	178.83	0.75	0.073	1.38	0.053	1.00	1.00	0.053	No
447	15.49	269.30	90.35	178.95	0.74	0.073	1.38	0.053	1.00	1.00	0.053	No
448	15.51	269.62	90.55	179.08	0.74	0.073	1.38	0.053	1.00	1.00	0.053	No
449	15.53	269.95	90.74	179.20	0.74	0.073	1.38	0.053	1.00	1.00	0.053	No
450	15.55	270.27	90.94	179.33	0.74	0.073	1.38	0.053	1.00	1.00	0.053	No
451	15.57	270.58	91.13	179.45	0.74	0.073	1.38	0.053	1.00	1.00	2.000	Yes
452	15.59	270.90	91.33	179.57	0.74	0.073	1.38	0.053	1.00	1.00	2.000	Yes
453	15.61	271.22	91.53	179.69	0.74	0.073	1.38	0.053	1.00	1.00	2.000	Yes
454	15.63	271.54	91.72	179.82	0.74	0.073	1.38	0.053	1.00	1.00	2.000	Yes
455	15.65	271.87	91.92	179.95	0.74	0.073	1.38	0.053	1.00	1.00	0.053	No
456	15.67	272.21	92.12	180.09	0.74	0.073	1.38	0.053	1.00	1.00	2.000	Yes
457	15.69	272.55	92.31	180.24	0.74	0.073	1.38	0.053	1.00	1.00	2.000	Yes
458	15.71	272.91	92.51	180.40	0.74	0.072	1.38	0.053	1.00	1.00	2.000	Yes
459	15.73	273.27	92.70	180.56	0.74	0.072	1.38	0.053	1.00	1.00	2.000	Yes
460	15.75	273.63	92.90	180.73	0.74	0.072	1.38	0.053	1.00	1.00	2.000	Yes
461	15.77	274.00	93.10	180.91	0.74	0.072	1.38	0.053	1.00	1.00	2.000	Yes
462	15.79	274.38	93.29	181.08	0.73	0.072	1.38	0.053	1.00	1.00	2.000	Yes
463	15.81	274.75	93.49	181.26	0.73	0.072	1.38	0.053	1.00	1.00	2.000	Yes
464	15.83	275.12	93.69	181.44	0.73	0.072	1.38	0.053	1.00	1.00	2.000	Yes
465	15.85	275.50	93.88	181.61	0.73	0.072	1.38	0.052	1.00	1.00	2.000	Yes
466	15.87	275.87	94.08	181.79	0.73	0.072	1.38	0.052	1.00	1.00	2.000	Yes
467	15.89	276.25	94.27	181.98	0.73	0.072	1.38	0.052	1.00	1.00	2.000	Yes
468	15.91	276.64	94.47	182.17	0.73	0.072	1.38	0.052	1.00	1.00	2.000	Yes
469	15.93	277.04	94.67	182.38	0.73	0.072	1.38	0.052	1.00	1.00	2.000	Yes
470	15.95	277.45	94.86	182.59	0.73	0.072	1.38	0.052	1.00	1.00	0.052	No
471	15.97	277.86	95.06	182.80	0.73	0.072	1.38	0.052	1.00	1.00	0.052	No
472	15.99	278.27	95.26	183.01	0.73	0.072	1.38	0.052	1.00	1.00	0.052	No
473	16.01	278.68	95.45	183.23	0.73	0.072	1.38	0.052	1.00	1.00	0.052	No
474	16.03	279.09	95.65	183.45	0.73	0.072	1.38	0.052	1.00	1.00	0.052	No
475	16.05	279.51	95.84	183.67	0.73	0.072	1.38	0.052	1.00	1.00	0.052	No
476	16.07	279.93	96.04	183.89	0.73	0.072	1.38	0.052	1.00	1.00	0.052	No
477	16.09	280.35	96.24	184.11	0.72	0.072	1.38	0.052	1.00	1.00	0.052	No
478	16.11	280.78	96.43	184.34	0.72	0.072	1.38	0.052	1.00	1.00	0.052	No
479	16.13	281.21	96.63	184.58	0.72	0.072	1.38	0.052	1.00	1.00	0.052	No
480	16.15	281.64	96.82	184.81	0.72	0.072	1.38	0.052	1.00	1.00	0.052	No

:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)

Point ID	Depth (m)	σ_v (KPa)	u_0 (kPa)	σ_v' (kPa)	r_d	CSR	MSF	CSR_{eq}	K_σ	User FS	CSR^*	Belongs to transition
481	16.17	282.07	97.02	185.05	0.72	0.072	1.38	0.052	1.00	1.00	0.052	No

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
σ_v: Total overburden pressure at test point (kPa)
u_0: Water pressure at test point (kPa)
σ_v': Effective overburden pressure based on GWT during earthquake (kPa)
r_d: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
CSR_{eq}: CSR adjusted for M=7.5
K_σ: Effective overburden stress factor
CSR^*: CSR fully adjusted

:: Cyclic Resistance Ratio (CRR) calculation data ::

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
1	6.57	0.19	3.53	5.59	1.00	3.43	22.59	77.38	0.163	No	Yes	2.00
2	6.59	0.19	3.60	7.34	1.00	3.42	25.32	86.46	0.163	No	Yes	2.00
3	6.61	0.30	3.35	5.45	1.00	5.69	16.45	93.67	0.272	No	Yes	2.00
4	6.63	0.55	3.02	3.60	1.00	10.64	9.14	97.22	0.507	No	Yes	2.00
5	6.65	0.89	2.74	2.33	0.90	17.23	5.14	88.55	0.822	No	Yes	2.00
6	6.67	1.09	2.63	2.01	0.86	21.15	6.56	138.79	0.296	No	No	2.00
7	6.69	1.12	2.62	2.04	0.86	21.83	6.29	137.29	0.289	No	No	2.00
8	6.71	1.04	2.69	2.38	0.88	20.21	9.54	192.78	0.672	No	No	2.00
9	6.73	0.98	2.75	2.77	0.91	18.93	5.27	99.79	0.903	No	Yes	2.00
10	6.75	1.02	2.74	2.81	0.90	19.82	5.14	101.88	0.945	No	Yes	2.00
11	6.77	1.08	2.72	2.78	0.89	21.03	4.88	102.70	1.003	No	Yes	2.00
12	6.79	1.13	2.69	2.63	0.88	22.04	9.33	205.70	3.600	No	No	2.00
13	6.81	1.08	2.70	2.64	0.89	20.91	4.75	99.39	0.998	No	Yes	2.00
14	6.83	1.03	2.72	2.64	0.90	20.00	4.93	98.53	0.954	No	Yes	2.00
15	6.85	1.08	2.69	2.54	0.88	21.02	9.73	204.55	3.600	No	No	2.00
16	6.87	1.19	2.64	2.40	0.87	23.18	7.17	166.31	0.457	No	No	2.00
17	6.89	1.30	2.61	2.38	0.85	25.24	5.88	148.44	0.346	No	No	2.00
18	6.91	1.32	2.63	2.57	0.86	25.66	6.46	165.69	0.453	No	No	2.00
19	6.93	1.29	2.66	2.87	0.87	25.17	8.13	204.56	3.600	No	No	2.00
20	6.95	1.24	2.70	3.11	0.89	24.17	10.14	244.99	3.600	No	No	2.00
21	6.97	1.20	2.73	3.27	0.90	23.28	4.98	116.01	1.111	No	Yes	2.00
22	6.99	1.18	2.75	3.52	0.91	22.97	5.27	120.97	1.096	No	Yes	2.00
23	7.01	1.24	2.74	3.53	0.90	24.09	5.10	122.85	4.000	Yes	Yes	2.00
24	7.03	1.35	2.69	3.34	0.89	26.30	9.65	253.95	4.000	Yes	No	2.00
25	7.05	1.76	2.53	2.54	0.82	34.24	3.36	115.01	4.000	Yes	No	2.00
26	7.07	2.45	2.32	1.81	0.74	47.85	2.01	95.97	4.000	Yes	No	2.00
27	7.09	3.35	2.15	1.42	0.68	65.59	1.50	98.55	4.000	Yes	No	2.00
28	7.11	4.15	2.04	1.26	0.64	81.47	1.35	109.71	4.000	Yes	No	2.00
29	7.13	4.63	2.00	1.22	0.62	90.87	1.31	118.60	4.000	Yes	No	2.00
30	7.15	4.75	1.99	1.22	0.62	93.30	1.30	121.16	0.245	No	No	2.00
31	7.17	4.84	2.00	1.27	0.62	95.03	1.30	123.84	0.257	No	No	2.00
32	7.19	5.19	1.97	1.26	0.61	101.91	1.28	130.85	0.288	No	No	2.00
33	7.21	5.63	1.92	1.18	0.59	110.72	1.25	138.66	0.328	No	No	2.00
34	7.23	5.77	1.89	1.08	0.58	113.39	1.23	139.47	0.332	No	No	2.00
35	7.25	5.11	1.93	1.09	0.60	100.35	1.26	126.35	0.268	No	No	2.00
36	7.27	4.14	2.04	1.26	0.64	81.27	1.35	109.53	0.202	No	No	2.00
37	7.29	3.14	2.21	1.66	0.70	61.46	1.65	101.33	0.177	No	No	2.00
38	7.31	2.57	2.35	2.12	0.76	50.17	2.13	107.03	0.194	No	No	2.00
39	7.33	2.22	2.45	2.56	0.80	43.23	2.67	115.42	0.223	No	No	2.00
40	7.35	2.74	2.30	1.94	0.74	53.60	1.94	103.76	0.184	No	No	2.00
41	7.37	4.01	2.03	1.15	0.63	78.67	1.33	104.88	0.187	No	No	2.00
42	7.39	5.29	1.83	0.77	0.56	103.95	1.18	122.75	0.252	No	No	2.00
43	7.41	6.09	1.76	0.72	0.53	119.64	1.10	131.95	0.294	No	No	2.00
44	7.43	6.55	1.78	0.85	0.54	128.82	1.13	145.52	0.367	No	No	2.00
45	7.45	7.26	1.77	0.93	0.54	142.70	1.12	159.72	0.459	No	No	2.00
46	7.47	7.81	1.76	0.98	0.53	153.52	1.11	169.97	0.537	No	No	2.00
47	7.49	8.16	1.75	0.98	0.53	160.58	1.09	174.59	0.575	No	No	2.00
48	7.51	8.42	1.73	0.95	0.52	165.60	1.05	174.36	0.573	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
49	7.53	8.70	1.69	0.87	0.51	171.09	1.00	171.09	0.546	No	No	2.00
50	7.55	8.87	1.63	0.72	0.48	174.49	1.00	174.49	0.574	No	No	2.00
51	7.57	8.92	1.59	0.59	0.47	171.29	1.00	171.29	0.547	No	No	2.00
52	7.59	8.78	1.56	0.51	0.46	165.73	1.00	165.73	0.503	No	No	2.00
53	7.61	8.56	1.56	0.50	0.46	161.53	1.00	161.53	0.472	No	No	2.00
54	7.63	8.36	1.57	0.51	0.46	158.13	1.00	158.13	0.448	No	No	2.00
55	7.65	8.17	1.58	0.51	0.47	154.79	1.00	154.79	0.425	No	No	2.00
56	7.67	7.82	1.61	0.53	0.47	149.44	1.00	149.44	0.390	No	No	2.00
57	7.69	7.15	1.65	0.57	0.49	139.03	1.00	139.03	0.330	No	No	2.00
58	7.71	6.30	1.72	0.65	0.52	123.67	1.03	127.58	0.273	No	No	2.00
59	7.73	5.53	1.80	0.73	0.55	108.51	1.15	124.97	0.262	No	No	2.00
60	7.75	5.19	1.83	0.77	0.56	101.68	1.19	120.77	0.244	No	No	2.00
61	7.77	5.22	1.83	0.78	0.56	102.31	1.19	121.50	0.247	No	No	2.00
62	7.79	5.72	1.76	0.67	0.53	112.29	1.11	124.08	0.258	No	No	2.00
63	7.81	6.27	1.69	0.56	0.51	122.36	1.00	122.36	0.250	No	No	2.00
64	7.83	6.80	1.63	0.48	0.49	128.48	1.00	128.48	0.277	No	No	2.00
65	7.85	6.95	1.61	0.45	0.48	129.84	1.00	129.84	0.284	No	No	2.00
66	7.87	6.99	1.61	0.44	0.48	130.11	1.00	130.11	0.285	No	No	2.00
67	7.89	6.70	1.63	0.46	0.49	125.74	1.00	125.74	0.265	No	No	2.00
68	7.91	6.17	1.70	0.57	0.51	119.29	1.00	119.29	0.238	No	No	2.00
69	7.93	5.42	1.78	0.66	0.54	106.21	1.13	119.93	0.240	No	No	2.00
70	7.95	4.76	1.88	0.81	0.58	93.30	1.22	113.84	0.217	No	No	2.00
71	7.97	4.11	2.00	1.04	0.62	80.45	1.30	104.85	0.187	No	No	2.00
72	7.99	3.50	2.17	1.59	0.69	68.31	1.54	105.09	0.188	No	No	2.00
73	8.01	3.04	2.32	2.27	0.75	59.16	1.99	117.82	0.232	No	No	2.00
74	8.03	3.58	2.23	2.06	0.72	69.96	1.71	119.49	0.239	No	No	2.00
75	8.05	5.22	1.99	1.36	0.62	102.30	1.30	132.96	0.299	No	No	2.00
76	8.07	7.10	1.77	0.88	0.54	138.41	1.11	153.85	0.419	No	No	2.00
77	8.09	7.99	1.68	0.69	0.50	148.82	1.00	148.82	0.387	No	No	2.00
78	8.11	7.39	1.70	0.70	0.51	138.84	1.00	138.84	4.000	Yes	No	2.00
79	8.13	6.14	1.82	0.89	0.56	120.43	1.17	140.78	4.000	Yes	No	2.00
80	8.15	4.82	1.99	1.23	0.62	94.33	1.30	122.41	4.000	Yes	No	2.00
81	8.17	3.75	2.19	1.83	0.70	73.13	1.58	115.62	4.000	Yes	No	2.00
82	8.19	2.99	2.34	2.44	0.76	58.12	2.10	122.34	4.000	Yes	No	2.00
83	8.21	2.50	2.47	3.07	0.81	48.51	2.78	134.71	4.000	Yes	No	2.00
84	8.23	2.26	2.53	3.37	0.83	43.80	3.40	148.90	4.000	Yes	No	2.00
85	8.25	2.04	2.58	3.60	0.85	39.44	4.83	190.36	4.000	Yes	No	2.00
86	8.27	1.92	2.58	3.37	0.85	37.06	4.82	178.55	4.000	Yes	No	2.00
87	8.29	1.97	2.51	2.73	0.82	37.99	3.07	116.58	4.000	Yes	No	2.00
88	8.31	2.21	2.38	1.95	0.77	42.83	2.26	96.98	4.000	Yes	No	2.00
89	8.33	2.55	2.27	1.58	0.73	49.39	1.83	90.41	4.000	Yes	No	2.00
90	8.35	2.96	2.18	1.35	0.70	57.45	1.56	89.82	4.000	Yes	No	2.00
91	8.37	3.36	2.12	1.25	0.67	65.36	1.44	94.29	4.000	Yes	No	2.00
92	8.39	3.70	2.07	1.21	0.66	72.06	1.38	99.57	4.000	Yes	No	2.00
93	8.41	3.95	2.05	1.21	0.65	77.04	1.35	104.37	4.000	Yes	No	2.00
94	8.43	4.15	2.03	1.20	0.64	80.92	1.34	108.14	0.198	No	No	2.00
95	8.45	4.33	2.01	1.16	0.63	84.46	1.31	110.92	0.207	No	No	2.00
96	8.47	4.50	1.95	1.00	0.61	87.82	1.27	111.73	0.210	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
97	8.49	4.67	1.89	0.82	0.59	90.13	1.23	111.03	0.207	No	No	2.00
98	8.51	4.85	1.82	0.62	0.56	90.75	1.18	106.64	0.193	No	No	2.00
99	8.53	4.91	1.78	0.52	0.54	89.83	1.13	101.67	0.178	No	No	2.00
100	8.55	4.78	1.77	0.47	0.54	86.90	1.00	86.90	0.141	No	No	2.00
101	8.57	3.99	1.88	0.61	0.58	75.79	1.22	92.74	0.154	No	No	2.00
102	8.59	3.56	1.96	0.75	0.61	69.29	1.28	88.57	0.145	No	No	2.00
103	8.61	3.22	2.06	0.95	0.65	62.49	1.36	85.20	0.138	No	No	2.00
104	8.63	3.67	1.99	0.86	0.62	71.48	1.30	92.69	0.154	No	No	2.00
105	8.65	4.59	1.86	0.68	0.58	85.74	1.21	103.89	0.184	No	No	2.00
106	8.67	5.61	1.73	0.49	0.53	98.83	1.00	98.83	0.170	No	No	2.00
107	8.69	6.39	1.64	0.37	0.49	108.19	1.00	108.19	0.198	No	No	2.00
108	8.71	6.28	1.64	0.35	0.49	105.89	1.00	105.89	0.190	No	No	2.00
109	8.73	5.93	1.66	0.36	0.50	100.64	1.00	100.64	0.175	No	No	2.00
110	8.75	5.35	1.71	0.38	0.52	92.28	1.00	92.28	0.153	No	No	2.00
111	8.77	5.00	1.75	0.43	0.53	87.75	1.00	87.75	0.143	No	No	2.00
112	8.79	4.90	1.79	0.52	0.55	87.30	1.15	99.96	0.173	No	No	2.00
113	8.81	5.05	1.82	0.63	0.56	90.87	1.18	107.07	0.194	No	No	2.00
114	8.83	5.08	1.86	0.74	0.57	92.53	1.21	111.69	0.210	No	No	2.00
115	8.85	4.96	1.90	0.87	0.59	91.75	1.24	113.59	0.216	No	No	2.00
116	8.87	4.74	1.94	0.97	0.61	88.84	1.26	112.38	0.212	No	No	2.00
117	8.89	4.34	2.01	1.15	0.63	83.27	1.31	109.50	0.202	No	No	2.00
118	8.91	3.98	2.08	1.34	0.66	77.40	1.39	107.38	0.195	No	No	2.00
119	8.93	3.76	2.14	1.54	0.68	73.09	1.48	107.93	0.197	No	No	2.00
120	8.95	3.62	2.18	1.74	0.70	70.39	1.57	110.67	0.206	No	No	2.00
121	8.97	3.35	2.23	1.85	0.72	64.95	1.69	109.46	0.202	No	No	2.00
122	8.99	2.93	2.30	2.04	0.74	56.74	1.92	108.92	0.200	No	No	2.00
123	9.01	2.62	2.37	2.32	0.77	50.69	2.23	113.24	0.215	No	No	2.00
124	9.03	2.93	2.33	2.26	0.76	56.66	2.04	115.60	0.224	No	No	2.00
125	9.05	4.02	2.14	1.67	0.68	78.28	1.48	115.84	0.225	No	No	2.00
126	9.07	5.72	1.92	1.06	0.60	103.31	1.25	128.86	0.279	No	No	2.00
127	9.09	6.93	1.78	0.76	0.54	118.43	1.12	133.16	0.300	No	No	2.00
128	9.11	7.27	1.73	0.64	0.52	121.54	1.04	126.42	0.268	No	No	2.00
129	9.13	6.78	1.75	0.64	0.53	113.83	1.08	122.59	0.251	No	No	2.00
130	9.15	6.25	1.77	0.64	0.54	105.75	1.12	118.45	0.235	No	No	2.00
131	9.17	5.86	1.79	0.64	0.55	99.61	1.14	113.99	0.218	No	No	2.00
132	9.19	5.38	1.81	0.62	0.56	91.87	1.17	107.33	0.195	No	No	2.00
133	9.21	4.76	1.86	0.63	0.58	82.34	1.21	99.44	0.171	No	No	2.00
134	9.23	3.90	1.94	0.67	0.61	69.23	1.26	87.35	0.142	No	No	2.00
135	9.25	3.17	2.03	0.76	0.64	58.02	1.34	77.52	0.123	No	No	2.00
136	9.27	2.57	2.16	0.99	0.69	48.92	1.52	74.18	0.118	No	No	2.00
137	9.29	2.32	2.23	1.19	0.72	44.64	1.70	76.10	0.121	No	No	2.00
138	9.31	2.43	2.22	1.20	0.71	46.74	1.66	77.76	0.124	No	No	2.00
139	9.33	2.62	2.16	1.01	0.69	49.41	1.52	74.91	0.119	No	No	2.00
140	9.35	2.61	2.13	0.89	0.68	48.62	1.47	71.44	0.114	No	No	2.00
141	9.37	2.31	2.18	0.93	0.70	43.60	1.57	68.50	0.110	No	No	2.00
142	9.39	1.95	2.28	1.11	0.74	37.26	1.86	69.30	0.111	No	No	2.00
143	9.41	1.75	2.37	1.32	0.77	33.24	2.20	73.17	0.116	No	No	2.00
144	9.43	1.73	2.37	1.33	0.77	32.88	2.23	73.24	0.117	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
145	9.45	1.77	2.38	1.41	0.77	33.70	2.25	75.91	0.121	No	No	2.00
146	9.47	1.76	2.37	1.37	0.77	33.41	2.23	74.67	4.000	Yes	No	2.00
147	9.49	1.59	2.44	1.56	0.80	30.04	2.61	78.43	4.000	Yes	No	2.00
148	9.51	1.29	2.56	1.84	0.84	24.23	4.18	101.24	4.000	Yes	No	2.00
149	9.53	1.03	2.72	2.46	0.91	19.00	4.91	93.31	4.000	Yes	Yes	2.00
150	9.55	0.88	2.81	2.81	0.94	16.14	5.99	96.67	4.000	Yes	Yes	2.00
151	9.57	0.91	2.78	2.59	0.93	16.74	5.57	93.32	4.000	Yes	Yes	2.00
152	9.59	0.99	2.71	2.21	0.90	18.16	4.79	87.01	4.000	Yes	Yes	2.00
153	9.61	1.45	2.46	1.44	0.81	27.33	2.70	73.79	4.000	Yes	No	2.00
154	9.63	1.91	2.28	1.04	0.74	35.89	1.85	66.52	4.000	Yes	No	2.00
155	9.65	2.22	2.20	0.89	0.71	40.66	1.61	65.30	4.000	Yes	No	2.00
156	9.67	2.12	2.22	0.90	0.72	39.03	1.65	64.57	4.000	Yes	No	2.00
157	9.69	2.02	2.24	0.93	0.72	37.29	1.72	64.27	4.000	Yes	No	2.00
158	9.71	2.15	2.26	1.14	0.73	39.95	1.80	71.77	4.000	Yes	No	2.00
159	9.73	2.25	2.31	1.48	0.75	42.39	1.96	82.92	4.000	Yes	No	2.00
160	9.75	2.28	2.36	1.83	0.77	43.60	2.16	94.06	4.000	Yes	No	2.00
161	9.77	2.14	2.42	2.11	0.79	40.86	2.46	100.65	4.000	Yes	No	2.00
162	9.79	1.84	2.54	2.68	0.84	34.87	3.58	124.71	4.000	Yes	No	2.00
163	9.81	1.90	2.51	2.54	0.83	36.14	2.99	107.93	0.197	No	No	2.00
164	9.83	1.82	2.54	2.69	0.84	34.45	3.68	126.70	0.269	No	No	2.00
165	9.85	1.81	2.54	2.68	0.84	34.40	3.68	126.42	0.268	No	No	2.00
166	9.87	1.44	2.73	3.89	0.91	27.08	4.98	134.76	1.292	No	Yes	2.00
167	9.89	1.22	2.85	4.88	0.96	22.76	6.46	147.10	1.086	No	Yes	2.00
168	9.91	1.09	2.92	5.37	0.98	20.05	7.44	149.09	0.956	No	Yes	2.00
169	9.93	1.01	2.94	5.31	0.99	18.44	7.80	143.90	0.880	No	Yes	2.00
170	9.95	0.97	2.95	5.17	0.99	17.71	7.89	139.82	0.845	No	Yes	2.00
171	9.97	0.95	2.93	4.78	0.99	17.31	7.67	132.73	0.826	No	Yes	2.00
172	9.99	0.95	2.90	4.23	0.98	17.25	7.17	123.75	0.823	No	Yes	2.00
173	10.01	0.95	2.85	3.56	0.96	17.33	6.48	112.38	0.827	No	Yes	2.00
174	10.03	0.97	2.81	3.11	0.94	17.65	5.93	104.72	0.842	No	Yes	2.00
175	10.05	0.98	2.77	2.81	0.93	17.90	5.54	99.25	0.854	No	Yes	2.00
176	10.07	0.99	2.76	2.67	0.92	18.08	5.35	96.80	0.863	No	Yes	2.00
177	10.09	0.99	2.75	2.63	0.92	18.09	5.30	95.89	0.863	No	Yes	2.00
178	10.11	0.98	2.75	2.60	0.92	17.94	5.30	95.11	0.856	No	Yes	2.00
179	10.13	0.98	2.75	2.58	0.92	17.90	5.29	94.72	0.854	No	Yes	2.00
180	10.15	0.99	2.75	2.56	0.92	18.07	5.22	94.35	0.862	No	Yes	2.00
181	10.17	1.00	2.75	2.60	0.92	18.22	5.23	95.37	0.869	No	Yes	2.00
182	10.19	0.99	2.76	2.63	0.92	17.95	5.33	95.68	0.856	No	Yes	2.00
183	10.21	0.94	2.78	2.70	0.93	17.10	5.61	95.94	0.816	No	Yes	2.00
184	10.23	0.89	2.81	2.76	0.94	16.00	5.97	95.52	0.763	No	Yes	2.00
185	10.25	0.83	2.85	2.86	0.96	14.78	6.45	95.34	0.705	No	Yes	2.00
186	10.27	0.78	2.87	2.86	0.96	13.91	6.75	93.85	0.663	No	Yes	2.00
187	10.29	0.76	2.87	2.77	0.97	13.43	6.80	91.35	0.641	No	Yes	2.00
188	10.31	0.75	2.85	2.55	0.96	13.29	6.57	87.24	0.634	No	Yes	2.00
189	10.33	0.75	2.84	2.34	0.95	13.18	6.33	83.43	0.629	No	Yes	2.00
190	10.35	0.75	2.82	2.16	0.95	13.24	6.05	80.10	0.632	No	Yes	2.00
191	10.37	0.77	2.79	2.01	0.94	13.59	5.72	77.74	0.648	No	Yes	2.00
192	10.39	0.79	2.77	1.92	0.93	14.04	5.45	76.53	0.670	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
193	10.41	0.80	2.76	1.90	0.92	14.19	5.38	76.28	0.677	No	Yes	2.00
194	10.43	0.80	2.76	1.88	0.92	14.21	5.34	75.87	0.678	No	Yes	2.00
195	10.45	0.81	2.75	1.85	0.92	14.36	5.25	75.33	0.685	No	Yes	2.00
196	10.47	0.82	2.75	1.89	0.92	14.50	5.26	76.34	0.692	No	Yes	2.00
197	10.49	0.80	2.78	2.06	0.93	14.11	5.62	79.32	0.673	No	Yes	2.00
198	10.51	0.75	2.82	2.20	0.95	13.14	6.15	80.82	0.627	No	Yes	2.00
199	10.53	0.70	2.85	2.22	0.96	12.28	6.50	79.88	0.586	No	Yes	2.00
200	10.55	0.69	2.84	2.06	0.96	11.95	6.40	76.52	0.570	No	Yes	2.00
201	10.57	0.69	2.83	1.97	0.95	11.89	6.29	74.70	0.567	No	Yes	2.00
202	10.59	0.68	2.83	1.92	0.95	11.83	6.23	73.66	0.564	No	Yes	2.00
203	10.61	0.68	2.83	1.91	0.95	11.77	6.24	73.44	0.561	No	Yes	2.00
204	10.63	0.69	2.82	1.85	0.95	11.89	6.10	72.53	0.567	No	Yes	2.00
205	10.65	0.69	2.81	1.79	0.94	11.97	5.97	71.45	0.571	No	Yes	2.00
206	10.67	0.68	2.81	1.76	0.94	11.82	5.97	70.62	0.564	No	Yes	2.00
207	10.69	0.67	2.82	1.76	0.95	11.63	6.05	70.39	0.555	No	Yes	2.00
208	10.71	0.67	2.82	1.76	0.95	11.50	6.11	70.27	0.548	No	Yes	2.00
209	10.73	0.67	2.82	1.73	0.95	11.50	6.05	69.61	0.548	No	Yes	2.00
210	10.75	0.67	2.81	1.70	0.95	11.48	6.02	69.09	0.548	No	Yes	2.00
211	10.77	0.66	2.81	1.69	0.95	11.42	6.02	68.75	0.545	No	Yes	2.00
212	10.79	0.67	2.81	1.66	0.94	11.47	5.96	68.33	0.547	No	Yes	2.00
213	10.81	0.67	2.80	1.62	0.94	11.60	5.84	67.69	0.553	No	Yes	2.00
214	10.83	0.68	2.79	1.57	0.94	11.78	5.68	66.84	0.562	No	Yes	2.00
215	10.85	0.69	2.78	1.55	0.93	11.93	5.58	66.57	0.569	No	Yes	2.00
216	10.87	0.70	2.77	1.55	0.93	12.04	5.53	66.64	0.574	No	Yes	2.00
217	10.89	0.70	2.77	1.56	0.93	12.06	5.55	66.88	0.575	No	Yes	2.00
218	10.91	0.70	2.78	1.57	0.93	11.93	5.61	66.95	0.569	No	Yes	2.00
219	10.93	0.69	2.79	1.59	0.94	11.79	5.70	67.18	0.562	No	Yes	2.00
220	10.95	0.69	2.79	1.61	0.94	11.71	5.77	67.51	0.558	No	Yes	2.00
221	10.97	0.69	2.80	1.62	0.94	11.67	5.80	67.74	0.557	No	Yes	2.00
222	10.99	0.70	2.79	1.59	0.94	11.89	5.67	67.45	0.567	No	Yes	2.00
223	11.01	0.74	2.73	1.32	0.92	12.36	5.03	62.20	0.590	No	Yes	2.00
224	11.03	0.77	2.67	1.08	0.89	12.80	8.68	111.13	0.187	No	No	2.00
225	11.05	0.80	2.68	1.17	0.89	13.32	8.78	116.93	0.206	No	No	2.00
226	11.07	0.79	2.74	1.54	0.92	13.30	5.10	67.84	0.634	No	Yes	2.00
227	11.09	0.78	2.79	1.93	0.94	13.26	5.71	75.73	0.633	No	Yes	2.00
228	11.11	0.76	2.81	2.00	0.94	12.92	5.93	76.67	0.616	No	Yes	2.00
229	11.13	0.76	2.81	1.98	0.94	12.85	5.93	76.22	0.613	No	Yes	2.00
230	11.15	0.75	2.81	1.98	0.95	12.71	5.99	76.12	0.606	No	Yes	2.00
231	11.17	0.75	2.82	1.98	0.95	12.53	6.05	75.80	0.598	No	Yes	2.00
232	11.19	0.73	2.82	1.97	0.95	12.23	6.15	75.21	0.583	No	Yes	2.00
233	11.21	0.71	2.83	1.91	0.95	11.88	6.19	73.54	0.567	No	Yes	2.00
234	11.23	0.70	2.83	1.83	0.95	11.58	6.19	71.72	0.552	No	Yes	2.00
235	11.25	0.69	2.82	1.74	0.95	11.41	6.12	69.77	0.544	No	Yes	2.00
236	11.27	0.69	2.82	1.68	0.95	11.33	6.05	68.50	0.540	No	Yes	2.00
237	11.29	0.69	2.82	1.69	0.95	11.21	6.11	68.45	0.535	No	Yes	2.00
238	11.31	0.68	2.83	1.72	0.95	11.12	6.19	68.89	0.531	No	Yes	2.00
239	11.33	0.68	2.83	1.74	0.95	11.09	6.24	69.23	0.529	No	Yes	2.00
240	11.35	0.68	2.83	1.74	0.95	11.14	6.23	69.40	0.531	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
241	11.37	0.69	2.83	1.74	0.95	11.18	6.22	69.47	0.533	No	Yes	2.00
242	11.39	0.69	2.84	1.78	0.96	11.11	6.31	70.10	0.530	No	Yes	2.00
243	11.41	0.68	2.84	1.82	0.96	11.03	6.42	70.75	0.526	No	Yes	2.00
244	11.43	0.68	2.85	1.86	0.96	10.98	6.49	71.31	0.524	No	Yes	2.00
245	11.45	0.69	2.85	1.85	0.96	11.05	6.44	71.20	0.527	No	Yes	2.00
246	11.47	0.70	2.84	1.81	0.96	11.20	6.32	70.83	0.534	No	Yes	2.00
247	11.49	0.71	2.83	1.78	0.95	11.34	6.21	70.45	0.541	No	Yes	2.00
248	11.51	0.71	2.82	1.76	0.95	11.44	6.14	70.19	0.546	No	Yes	2.00
249	11.53	0.71	2.83	1.77	0.95	11.36	6.18	70.17	0.542	No	Yes	2.00
250	11.55	0.70	2.83	1.78	0.96	11.18	6.27	70.12	0.534	No	Yes	2.00
251	11.57	0.69	2.84	1.80	0.96	10.99	6.39	70.24	0.524	No	Yes	2.00
252	11.59	0.69	2.85	1.81	0.96	10.87	6.46	70.19	0.518	No	Yes	2.00
253	11.61	0.68	2.85	1.81	0.96	10.75	6.52	70.14	0.513	No	Yes	2.00
254	11.63	0.68	2.86	1.82	0.96	10.63	6.59	70.08	0.507	No	Yes	2.00
255	11.65	0.67	2.86	1.82	0.97	10.53	6.65	70.01	0.502	No	Yes	2.00
256	11.67	0.67	2.86	1.81	0.97	10.50	6.65	69.78	0.501	No	Yes	2.00
257	11.69	0.67	2.86	1.80	0.97	10.52	6.61	69.54	0.502	No	Yes	2.00
258	11.71	0.68	2.85	1.76	0.96	10.61	6.50	68.98	0.506	No	Yes	2.00
259	11.73	0.69	2.85	1.74	0.96	10.67	6.44	68.67	0.509	No	Yes	2.00
260	11.75	0.69	2.84	1.71	0.96	10.73	6.36	68.27	0.512	No	Yes	2.00
261	11.77	0.69	2.84	1.72	0.96	10.71	6.39	68.35	0.511	No	Yes	2.00
262	11.79	0.69	2.84	1.72	0.96	10.67	6.40	68.25	0.509	No	Yes	2.00
263	11.81	0.69	2.85	1.72	0.96	10.55	6.46	68.19	0.503	No	Yes	2.00
264	11.83	0.68	2.85	1.73	0.96	10.43	6.53	68.14	0.498	No	Yes	2.00
265	11.85	0.68	2.86	1.75	0.97	10.35	6.61	68.46	0.494	No	Yes	2.00
266	11.87	0.67	2.86	1.77	0.97	10.32	6.65	68.67	0.492	No	Yes	2.00
267	11.89	0.68	2.86	1.78	0.97	10.32	6.67	68.84	0.492	No	Yes	2.00
268	11.91	0.67	2.86	1.78	0.97	10.27	6.70	68.86	0.490	No	Yes	2.00
269	11.93	0.68	2.86	1.78	0.97	10.34	6.67	68.99	0.493	No	Yes	2.00
270	11.95	0.70	2.84	1.72	0.96	10.63	6.43	68.34	0.507	No	Yes	2.00
271	11.97	0.74	2.81	1.60	0.95	11.21	5.95	66.71	0.534	No	Yes	2.00
272	11.99	0.78	2.77	1.49	0.93	11.75	5.54	65.15	0.561	No	Yes	2.00
273	12.01	0.80	2.75	1.44	0.93	12.15	5.31	64.53	0.580	No	Yes	2.00
274	12.03	0.82	2.75	1.46	0.93	12.37	5.26	65.11	0.590	No	Yes	2.00
275	12.05	0.84	2.75	1.50	0.93	12.67	5.24	66.43	0.605	No	Yes	2.00
276	12.07	0.85	2.75	1.55	0.93	12.88	5.24	67.49	0.614	No	Yes	2.00
277	12.09	0.86	2.76	1.63	0.93	13.03	5.32	69.37	0.622	No	Yes	2.00
278	12.11	0.87	2.76	1.68	0.93	13.07	5.40	70.58	0.623	No	Yes	2.00
279	12.13	0.87	2.77	1.73	0.93	13.13	5.45	71.53	0.626	No	Yes	2.00
280	12.15	0.87	2.76	1.72	0.93	13.16	5.43	71.40	4.000	Yes	Yes	2.00
281	12.17	0.93	2.72	1.56	0.92	13.97	4.93	68.90	4.000	Yes	Yes	2.00
282	12.19	1.01	2.67	1.39	0.89	15.08	8.25	124.45	4.000	Yes	No	2.00
283	12.21	1.10	2.62	1.28	0.87	16.39	6.01	98.45	4.000	Yes	No	2.00
284	12.23	1.18	2.56	1.07	0.85	17.40	4.06	70.64	4.000	Yes	No	2.00
285	12.25	1.25	2.54	1.08	0.84	18.48	3.54	65.42	4.000	Yes	No	2.00
286	12.27	1.31	2.53	1.12	0.84	19.36	3.32	64.35	0.105	No	No	1.90
287	12.29	1.32	2.57	1.37	0.86	19.65	4.32	84.77	0.137	No	No	2.00
288	12.31	1.32	2.59	1.51	0.86	19.62	5.00	98.01	0.168	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
289	12.33	1.32	2.60	1.59	0.87	19.66	5.40	106.06	0.191	No	No	2.00
290	12.35	1.32	2.61	1.65	0.87	19.68	5.72	112.52	0.191	No	No	2.00
291	12.37	1.31	2.62	1.75	0.88	19.54	6.32	123.50	0.230	No	No	2.00
292	12.39	1.29	2.65	1.88	0.89	19.25	7.32	140.85	0.306	No	No	2.00
293	12.41	1.28	2.66	1.97	0.89	19.04	8.09	154.04	0.378	No	No	2.00
294	12.43	1.27	2.67	1.97	0.89	18.92	8.22	155.47	0.387	No	No	2.00
295	12.45	1.28	2.66	1.89	0.89	18.92	7.68	145.39	0.329	No	No	2.00
296	12.47	1.30	2.65	1.85	0.89	19.17	7.22	138.53	0.295	No	No	2.00
297	12.49	1.35	2.62	1.77	0.88	19.87	6.18	122.82	0.227	No	No	2.00
298	12.51	1.38	2.61	1.74	0.87	20.22	5.81	117.42	4.000	Yes	No	2.00
299	12.53	1.45	2.57	1.60	0.86	21.18	4.58	97.10	4.000	Yes	No	2.00
300	12.55	1.66	2.49	1.38	0.83	24.08	2.93	70.47	4.000	Yes	No	2.00
301	12.57	2.08	2.38	1.17	0.78	29.75	2.25	66.94	4.000	Yes	No	2.00
302	12.59	2.35	2.33	1.15	0.77	33.51	2.03	68.20	4.000	Yes	No	2.00
303	12.61	2.37	2.35	1.27	0.77	33.86	2.12	71.85	4.000	Yes	No	2.00
304	12.63	2.09	2.44	1.54	0.81	30.15	2.59	77.97	4.000	Yes	No	2.00
305	12.65	1.86	2.52	1.81	0.84	26.96	3.16	85.18	4.000	Yes	No	2.00
306	12.67	1.68	2.59	2.09	0.87	24.53	5.01	122.89	4.000	Yes	No	2.00
307	12.69	1.59	2.64	2.35	0.89	23.21	6.91	160.29	4.000	Yes	No	2.00
308	12.71	1.49	2.69	2.64	0.90	21.93	9.45	207.30	4.000	Yes	No	2.00
309	12.73	1.41	2.73	2.88	0.92	20.68	5.05	104.46	4.000	Yes	Yes	2.00
310	12.75	1.34	2.76	2.98	0.93	19.61	5.36	105.00	4.000	Yes	Yes	2.00
311	12.77	1.28	2.78	3.00	0.94	18.74	5.56	104.26	0.894	No	Yes	2.00
312	12.79	1.25	2.78	2.91	0.94	18.14	5.60	101.58	0.865	No	Yes	2.00
313	12.81	1.22	2.77	2.74	0.94	17.61	5.54	97.51	0.840	No	Yes	2.00
314	12.83	1.21	2.75	2.47	0.93	17.30	5.29	91.54	0.825	No	Yes	2.00
315	12.85	1.19	2.74	2.27	0.92	16.90	5.15	87.05	0.806	No	Yes	2.00
316	12.87	1.18	2.73	2.14	0.92	16.68	5.04	84.04	0.796	No	Yes	2.00
317	12.89	1.16	2.73	2.10	0.92	16.40	5.05	82.81	0.782	No	Yes	2.00
318	12.91	1.16	2.73	2.07	0.92	16.39	5.02	82.23	0.782	No	Yes	2.00
319	12.93	1.18	2.72	2.03	0.92	16.57	4.92	81.50	0.790	No	Yes	2.00
320	12.95	1.21	2.70	1.96	0.91	16.96	4.73	80.30	0.809	No	Yes	2.00
321	12.97	1.23	2.69	1.89	0.91	17.23	9.49	163.53	0.438	No	No	2.00
322	12.99	1.25	2.69	1.91	0.90	17.46	9.34	163.00	0.435	No	No	2.00
323	13.01	1.25	2.69	1.96	0.91	17.46	9.75	170.20	0.485	No	No	2.00
324	13.03	1.25	2.71	2.05	0.91	17.39	4.76	82.80	0.829	No	Yes	2.00
325	13.05	1.22	2.72	2.13	0.92	17.02	4.94	84.11	0.812	No	Yes	2.00
326	13.07	1.19	2.75	2.23	0.93	16.48	5.20	85.76	0.786	No	Yes	2.00
327	13.09	1.14	2.77	2.30	0.94	15.84	5.45	86.34	0.756	No	Yes	2.00
328	13.11	1.12	2.78	2.32	0.94	15.43	5.59	86.24	0.736	No	Yes	2.00
329	13.13	1.11	2.77	2.24	0.94	15.33	5.51	84.51	0.731	No	Yes	2.00
330	13.15	1.13	2.76	2.16	0.93	15.49	5.36	83.04	0.739	No	Yes	2.00
331	13.17	1.15	2.75	2.09	0.93	15.68	5.22	81.86	0.748	No	Yes	2.00
332	13.19	1.15	2.74	2.07	0.93	15.71	5.19	81.51	0.749	No	Yes	2.00
333	13.21	1.15	2.74	2.05	0.93	15.68	5.17	81.12	0.748	No	Yes	2.00
334	13.23	1.15	2.74	2.04	0.93	15.58	5.18	80.66	0.743	No	Yes	2.00
335	13.25	1.15	2.74	2.03	0.93	15.57	5.16	80.38	0.742	No	Yes	2.00
336	13.27	1.13	2.74	2.00	0.93	15.33	5.19	79.61	0.731	No	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
337	13.29	1.11	2.75	1.98	0.93	14.98	5.26	78.89	0.715	No	Yes	2.00
338	13.31	1.10	2.75	1.95	0.93	14.75	5.28	77.87	0.703	No	Yes	2.00
339	13.33	1.11	2.74	1.88	0.93	14.89	5.14	76.54	0.710	No	Yes	2.00
340	13.35	1.15	2.72	1.78	0.92	15.34	4.88	74.80	0.732	No	Yes	2.00
341	13.37	1.18	2.69	1.69	0.91	15.78	9.80	154.61	0.381	No	No	2.00
342	13.39	1.20	2.68	1.64	0.90	15.90	9.22	146.63	0.336	No	No	2.00
343	13.41	1.18	2.69	1.65	0.91	15.66	9.66	151.26	0.362	No	No	2.00
344	13.43	1.16	2.71	1.70	0.91	15.33	4.77	73.17	0.731	No	Yes	2.00
345	13.45	1.17	2.70	1.69	0.91	15.47	4.72	73.06	0.738	No	Yes	2.00
346	13.47	1.21	2.68	1.63	0.90	15.98	9.01	143.95	0.322	No	No	2.00
347	13.49	1.26	2.66	1.57	0.90	16.59	7.88	130.77	0.259	No	No	2.00
348	13.51	1.28	2.66	1.63	0.90	16.90	7.93	133.92	0.273	No	No	2.00
349	13.53	1.27	2.68	1.77	0.90	16.80	9.07	152.44	0.369	No	No	2.00
350	13.55	1.22	2.73	2.04	0.92	16.16	5.03	81.25	0.771	No	Yes	2.00
351	13.57	1.17	2.77	2.24	0.94	15.40	5.50	84.67	0.735	No	Yes	2.00
352	13.59	1.12	2.80	2.39	0.95	14.66	5.90	86.52	0.699	No	Yes	2.00
353	13.61	1.08	2.81	2.32	0.95	14.05	6.00	84.30	0.670	No	Yes	2.00
354	13.63	1.04	2.82	2.30	0.96	13.49	6.16	83.07	0.644	No	Yes	2.00
355	13.65	1.01	2.83	2.26	0.96	13.04	6.27	81.67	0.622	No	Yes	2.00
356	13.67	1.00	2.83	2.20	0.96	12.92	6.22	80.43	0.616	No	Yes	2.00
357	13.69	1.00	2.82	2.12	0.96	12.77	6.17	78.79	0.609	No	Yes	2.00
358	13.71	0.99	2.81	2.00	0.96	12.68	6.03	76.41	0.605	No	Yes	2.00
359	13.73	0.96	2.83	2.01	0.96	12.22	6.20	75.82	0.583	No	Yes	2.00
360	13.75	0.91	2.86	2.08	0.97	11.51	6.61	76.10	0.549	No	Yes	2.00
361	13.77	0.87	2.89	2.22	0.99	10.87	7.13	77.50	0.519	No	Yes	2.00
362	13.79	0.86	2.90	2.27	0.99	10.77	7.25	78.08	0.514	No	Yes	2.00
363	13.81	0.90	2.87	2.14	0.98	11.23	6.83	76.75	0.536	No	Yes	2.00
364	13.83	0.94	2.84	2.00	0.97	11.78	6.38	75.15	0.562	No	Yes	2.00
365	13.85	0.98	2.81	1.90	0.96	12.26	6.02	73.86	0.585	No	Yes	2.00
366	13.87	1.00	2.81	1.92	0.95	12.51	5.96	74.56	0.597	No	Yes	2.00
367	13.89	1.00	2.82	1.99	0.96	12.51	6.07	75.95	0.597	No	Yes	2.00
368	13.91	0.99	2.83	2.07	0.96	12.38	6.23	77.18	0.591	No	Yes	2.00
369	13.93	0.99	2.83	2.05	0.96	12.30	6.24	76.73	0.587	No	Yes	2.00
370	13.95	0.98	2.83	1.99	0.96	12.25	6.18	75.63	0.584	No	Yes	2.00
371	13.97	0.97	2.83	1.95	0.96	12.07	6.18	74.59	0.576	No	Yes	2.00
372	13.99	0.96	2.83	1.93	0.96	11.89	6.22	74.01	0.567	No	Yes	2.00
373	14.01	0.97	2.81	1.82	0.96	11.98	6.02	72.06	0.571	No	Yes	2.00
374	14.03	1.00	2.78	1.65	0.94	12.28	5.62	68.96	0.586	No	Yes	2.00
375	14.05	1.02	2.75	1.51	0.93	12.55	5.29	66.45	0.599	No	Yes	2.00
376	14.07	1.05	2.72	1.38	0.92	12.86	4.97	63.87	0.613	No	Yes	2.00
377	14.09	1.08	2.70	1.31	0.91	13.25	4.72	62.56	0.632	No	Yes	2.00
378	14.11	1.13	2.68	1.24	0.90	13.80	8.71	120.23	0.217	No	No	2.00
379	14.13	1.14	2.67	1.27	0.90	13.97	8.70	121.57	0.222	No	No	2.00
380	14.15	1.12	2.69	1.30	0.91	13.64	9.51	129.71	0.255	No	No	2.00
381	14.17	1.07	2.72	1.36	0.92	12.98	4.90	63.56	0.619	No	Yes	2.00
382	14.19	1.03	2.75	1.43	0.93	12.39	5.20	64.46	0.591	No	Yes	2.00
383	14.21	1.02	2.75	1.44	0.93	12.34	5.25	64.75	4.000	Yes	Yes	2.00
384	14.23	1.08	2.72	1.36	0.92	13.08	4.87	63.66	4.000	Yes	Yes	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
385	14.25	1.18	2.65	1.20	0.90	14.34	7.63	109.42	4.000	Yes	No	2.00
386	14.27	1.27	2.61	1.10	0.88	15.39	5.68	87.41	4.000	Yes	No	2.00
387	14.29	1.32	2.58	1.03	0.87	16.00	4.75	76.09	4.000	Yes	No	2.00
388	14.31	1.38	2.56	1.01	0.86	16.77	4.08	68.41	4.000	Yes	No	2.00
389	14.33	1.47	2.53	0.99	0.85	17.78	3.43	60.94	4.000	Yes	No	2.00
390	14.35	1.52	2.52	1.03	0.85	18.50	3.28	60.59	0.101	No	No	1.86
391	14.37	1.51	2.55	1.14	0.86	18.39	3.87	71.11	0.113	No	No	2.00
392	14.39	1.46	2.59	1.30	0.87	17.82	5.05	89.93	0.148	No	No	2.00
393	14.41	1.44	2.60	1.35	0.88	17.54	5.55	97.34	0.149	No	No	2.00
394	14.43	1.50	2.58	1.26	0.87	18.13	4.65	84.23	0.136	No	No	2.00
395	14.45	1.56	2.54	1.14	0.85	18.85	3.65	68.71	0.110	No	No	2.00
396	14.47	1.57	2.54	1.13	0.85	18.91	3.55	67.12	0.108	No	No	2.00
397	14.49	1.49	2.58	1.26	0.87	17.93	4.74	84.98	0.137	No	No	2.00
398	14.51	1.39	2.63	1.37	0.89	16.67	6.35	105.95	0.172	No	No	2.00
399	14.53	1.33	2.64	1.35	0.89	15.95	6.91	110.14	4.000	Yes	No	2.00
400	14.55	1.34	2.60	1.13	0.88	15.95	5.44	86.72	4.000	Yes	No	2.00
401	14.57	1.39	2.55	0.96	0.86	16.45	4.00	65.77	4.000	Yes	No	2.00
402	14.59	1.43	2.53	0.88	0.85	16.86	3.36	56.57	4.000	Yes	No	2.00
403	14.61	1.44	2.52	0.88	0.85	16.98	3.30	55.96	4.000	Yes	No	2.00
404	14.63	1.41	2.56	0.98	0.86	16.60	4.06	67.38	4.000	Yes	No	2.00
405	14.65	1.37	2.59	1.09	0.87	16.11	5.01	80.70	4.000	Yes	No	2.00
406	14.67	1.33	2.61	1.15	0.88	15.64	5.85	91.48	4.000	Yes	No	2.00
407	14.69	1.26	2.64	1.16	0.89	14.74	6.80	100.24	4.000	Yes	No	2.00
408	14.71	1.19	2.66	1.16	0.90	13.81	7.91	109.21	4.000	Yes	No	2.00
409	14.73	1.11	2.69	1.18	0.91	12.74	9.87	125.75	4.000	Yes	No	2.00
410	14.75	1.09	2.70	1.15	0.91	12.53	9.98	124.95	0.235	No	No	2.00
411	14.77	1.12	2.68	1.11	0.91	12.79	9.01	115.23	0.200	No	No	2.00
412	14.79	1.19	2.64	1.02	0.89	13.69	6.85	93.71	0.141	No	No	2.00
413	14.81	1.26	2.60	0.96	0.88	14.50	5.49	79.67	0.114	No	No	2.00
414	14.83	1.29	2.59	0.93	0.87	14.90	4.96	73.92	0.118	No	No	2.00
415	14.85	1.27	2.60	0.97	0.88	14.65	5.41	79.32	0.114	No	No	2.00
416	14.87	1.26	2.61	0.99	0.88	14.42	5.84	84.25	0.122	No	No	2.00
417	14.89	1.29	2.60	0.97	0.88	14.84	5.30	78.69	4.000	Yes	No	2.00
418	14.91	1.36	2.57	0.95	0.87	15.60	4.55	71.00	4.000	Yes	No	2.00
419	14.93	1.43	2.54	0.90	0.86	16.44	3.72	61.22	4.000	Yes	No	2.00
420	14.95	1.49	2.51	0.86	0.85	17.21	3.10	53.28	4.000	Yes	No	2.00
421	14.97	1.58	2.49	0.84	0.83	18.25	2.89	52.82	4.000	Yes	No	2.00
422	14.99	1.65	2.48	0.89	0.83	19.04	2.86	54.42	4.000	Yes	No	2.00
423	15.01	1.62	2.51	1.00	0.85	18.73	3.08	57.70	4.000	Yes	No	2.00
424	15.03	1.54	2.55	1.09	0.86	17.74	3.99	70.73	4.000	Yes	No	2.00
425	15.05	1.46	2.58	1.14	0.87	16.80	4.83	81.10	4.000	Yes	No	2.00
426	15.07	1.44	2.58	1.10	0.87	16.48	4.83	79.60	0.127	No	No	2.00
427	15.09	1.42	2.59	1.08	0.87	16.20	4.92	79.77	0.127	No	No	2.00
428	15.11	1.36	2.61	1.11	0.88	15.42	5.71	88.11	0.129	No	No	2.00
429	15.13	1.29	2.65	1.20	0.90	14.56	7.29	106.20	0.172	No	No	2.00
430	15.15	1.23	2.68	1.28	0.91	13.85	8.98	124.40	0.233	No	No	2.00
431	15.17	1.21	2.69	1.31	0.91	13.57	9.71	131.80	0.264	No	No	2.00
432	15.19	1.21	2.68	1.24	0.91	13.56	9.09	123.25	0.229	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
433	15.21	1.22	2.67	1.20	0.91	13.66	8.50	116.08	0.203	No	No	2.00
434	15.23	1.20	2.69	1.24	0.91	13.36	9.42	125.82	0.239	No	No	2.00
435	15.25	1.14	2.73	1.38	0.93	12.60	5.05	63.65	0.601	No	Yes	2.00
436	15.27	1.05	2.79	1.54	0.95	11.58	5.69	65.95	0.553	No	Yes	2.00
437	15.29	1.01	2.81	1.54	0.96	10.96	5.96	65.27	0.523	No	Yes	2.00
438	15.31	0.99	2.81	1.47	0.96	10.73	5.93	63.61	0.512	No	Yes	2.00
439	15.33	1.00	2.78	1.32	0.95	10.81	5.61	60.64	0.516	No	Yes	2.00
440	15.35	1.08	2.71	1.12	0.92	11.80	4.85	57.22	0.563	No	Yes	2.00
441	15.37	1.17	2.66	0.99	0.90	12.81	7.80	99.87	0.155	No	No	2.00
442	15.39	1.25	2.63	1.00	0.89	13.70	6.68	91.49	0.136	No	No	2.00
443	15.41	1.24	2.65	1.10	0.90	13.67	7.60	103.99	0.166	No	No	2.00
444	15.43	1.26	2.66	1.15	0.90	13.86	7.79	107.92	0.177	No	No	2.00
445	15.45	1.29	2.64	1.08	0.89	14.18	6.82	96.70	0.148	No	No	2.00
446	15.47	1.30	2.63	1.06	0.89	14.26	6.56	93.59	0.141	No	No	2.00
447	15.49	1.24	2.67	1.18	0.91	13.56	8.50	115.24	0.200	No	No	2.00
448	15.51	1.14	2.75	1.42	0.93	12.34	5.21	64.32	0.589	No	Yes	2.00
449	15.53	1.05	2.81	1.59	0.96	11.25	5.92	66.67	0.537	No	Yes	2.00
450	15.55	0.97	2.85	1.68	0.97	10.28	6.52	67.00	0.490	No	Yes	2.00
451	15.57	0.93	2.87	1.66	0.98	9.71	6.79	65.89	4.000	Yes	Yes	2.00
452	15.59	1.02	2.80	1.42	0.95	10.86	5.79	62.87	4.000	Yes	Yes	2.00
453	15.61	1.23	2.66	1.07	0.90	13.24	7.94	105.07	4.000	Yes	No	2.00
454	15.63	1.52	2.54	0.93	0.86	16.72	3.72	62.16	4.000	Yes	No	2.00
455	15.65	1.72	2.53	1.09	0.85	19.08	3.31	63.24	0.104	No	No	1.96
456	15.67	1.97	2.52	1.34	0.85	22.09	3.14	69.32	4.000	Yes	No	2.00
457	15.69	2.11	2.55	1.71	0.86	23.83	3.83	91.31	4.000	Yes	No	2.00
458	15.71	2.21	2.59	2.18	0.88	25.04	5.12	128.30	4.000	Yes	No	2.00
459	15.73	2.14	2.69	3.09	0.92	24.41	9.85	240.52	4.000	Yes	No	2.00
460	15.75	2.09	2.78	4.14	0.95	23.96	5.64	135.18	4.000	Yes	Yes	2.00
461	15.77	2.08	2.85	5.18	0.97	23.85	6.50	154.96	4.000	Yes	Yes	2.00
462	15.79	1.92	2.93	6.25	1.00	22.04	7.66	168.81	4.000	Yes	Yes	2.00
463	15.81	1.79	2.99	6.96	1.00	20.36	8.57	174.56	4.000	Yes	Yes	2.00
464	15.83	1.94	2.93	6.19	1.00	22.13	7.60	168.12	4.000	Yes	Yes	2.00
465	15.85	2.82	2.66	3.75	0.90	32.24	7.85	253.02	4.000	Yes	No	2.00
466	15.87	4.37	2.36	2.21	0.79	49.73	2.20	109.29	4.000	Yes	No	2.00
467	15.89	7.16	2.10	1.50	0.69	80.76	1.41	114.16	4.000	Yes	No	2.00
468	15.91	10.25	1.96	1.38	0.64	114.90	1.28	146.63	4.000	Yes	No	2.00
469	15.93	12.73	1.92	1.50	0.62	142.46	1.25	177.88	4.000	Yes	No	2.00
470	15.95	14.25	1.90	1.59	0.62	159.30	1.24	197.56	0.797	No	No	2.00
471	15.97	15.20	1.91	1.70	0.62	169.73	1.24	210.80	4.000	No	No	2.00
472	15.99	16.24	1.89	1.72	0.61	180.96	1.23	223.16	4.000	No	No	2.00
473	16.01	17.06	1.89	1.75	0.61	189.82	1.23	233.22	4.000	No	No	2.00
474	16.03	17.79	1.88	1.74	0.61	197.48	1.22	240.88	4.000	No	No	2.00
475	16.05	18.61	1.88	1.81	0.61	206.38	1.22	251.94	4.000	No	No	2.00
476	16.07	20.09	1.87	1.88	0.60	222.53	1.22	270.39	4.000	No	No	2.00
477	16.09	21.19	1.89	2.05	0.61	234.64	1.23	288.01	4.000	No	No	2.00
478	16.11	23.27	1.87	2.10	0.60	257.18	1.22	313.09	4.000	No	No	2.00
479	16.13	24.33	1.87	2.18	0.61	268.66	1.22	327.53	4.000	No	No	2.00
480	16.15	26.91	1.84	2.10	0.59	295.98	1.19	352.18	4.000	No	No	2.00

:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)

Point ID	Depth (m)	q_t (MPa)	I_c	Fr (%)	n	Q_{tn}	K_c	$Q_{tn,cs}$	$CRR_{7.5}$	Belongs to trans. layer	Clay-like behaviour	FS
481	16.17	28.21	1.82	2.05	0.58	309.43	1.17	362.66	4.000	No	No	2.00

Abbreviations

Depth: Depth from free surface, at which CPT was performed (m)
q_t: Total cone resistance
I_c: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
Q_{tn}: Normalized cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for M_w=7.5
FS: Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
6.57	2.00	0.00	0.00	0.02	0.00	6.59	2.00	0.00	0.00	0.02	0.00
6.61	2.00	0.00	0.00	0.02	0.00	6.63	2.00	0.00	0.00	0.02	0.00
6.65	2.00	0.00	0.00	0.02	0.00	6.67	2.00	0.00	0.00	0.02	0.00
6.69	2.00	0.00	0.00	0.02	0.00	6.71	2.00	0.00	0.00	0.02	0.00
6.73	2.00	0.00	0.00	0.02	0.00	6.75	2.00	0.00	0.00	0.02	0.00
6.77	2.00	0.00	0.00	0.02	0.00	6.79	2.00	0.00	0.00	0.02	0.00
6.81	2.00	0.00	0.00	0.02	0.00	6.83	2.00	0.00	0.00	0.02	0.00
6.85	2.00	0.00	0.00	0.02	0.00	6.87	2.00	0.00	0.00	0.02	0.00
6.89	2.00	0.00	0.00	0.02	0.00	6.91	2.00	0.00	0.00	0.02	0.00
6.93	2.00	0.00	0.00	0.02	0.00	6.95	2.00	0.00	0.00	0.02	0.00
6.97	2.00	0.00	0.00	0.02	0.00	6.99	2.00	0.00	0.00	0.02	0.00
7.01	2.00	0.00	0.00	0.02	0.00	7.03	2.00	0.00	0.00	0.02	0.00
7.05	2.00	0.00	0.00	0.02	0.00	7.07	2.00	0.00	0.00	0.02	0.00
7.09	2.00	0.00	0.00	0.02	0.00	7.11	2.00	0.00	0.00	0.02	0.00
7.13	2.00	0.00	0.00	0.02	0.00	7.15	2.00	0.00	0.00	0.02	0.00
7.17	2.00	0.00	0.00	0.02	0.00	7.19	2.00	0.00	0.00	0.02	0.00
7.21	2.00	0.00	0.00	0.02	0.00	7.23	2.00	0.00	0.00	0.02	0.00
7.25	2.00	0.00	0.00	0.02	0.00	7.27	2.00	0.00	0.00	0.02	0.00
7.29	2.00	0.00	0.00	0.02	0.00	7.31	2.00	0.00	0.00	0.02	0.00
7.33	2.00	0.00	0.00	0.02	0.00	7.35	2.00	0.00	0.00	0.02	0.00
7.37	2.00	0.00	0.00	0.02	0.00	7.39	2.00	0.00	0.00	0.02	0.00
7.41	2.00	0.00	0.00	0.02	0.00	7.43	2.00	0.00	0.00	0.02	0.00
7.45	2.00	0.00	0.00	0.02	0.00	7.47	2.00	0.00	0.00	0.02	0.00
7.49	2.00	0.00	0.00	0.02	0.00	7.51	2.00	0.00	0.00	0.02	0.00
7.53	2.00	0.00	0.00	0.02	0.00	7.55	2.00	0.00	0.00	0.02	0.00
7.57	2.00	0.00	0.00	0.02	0.00	7.59	2.00	0.00	0.00	0.02	0.00
7.61	2.00	0.00	0.00	0.02	0.00	7.63	2.00	0.00	0.00	0.02	0.00
7.65	2.00	0.00	0.00	0.02	0.00	7.67	2.00	0.00	0.00	0.02	0.00
7.69	2.00	0.00	0.00	0.02	0.00	7.71	2.00	0.00	0.00	0.02	0.00
7.73	2.00	0.00	0.00	0.02	0.00	7.75	2.00	0.00	0.00	0.02	0.00
7.77	2.00	0.00	0.00	0.02	0.00	7.79	2.00	0.00	0.00	0.02	0.00
7.81	2.00	0.00	0.00	0.02	0.00	7.83	2.00	0.00	0.00	0.02	0.00
7.85	2.00	0.00	0.00	0.02	0.00	7.87	2.00	0.00	0.00	0.02	0.00
7.89	2.00	0.00	0.00	0.02	0.00	7.91	2.00	0.00	0.00	0.02	0.00
7.93	2.00	0.00	0.00	0.02	0.00	7.95	2.00	0.00	0.00	0.02	0.00
7.97	2.00	0.00	0.00	0.02	0.00	7.99	2.00	0.00	0.00	0.02	0.00
8.01	2.00	0.00	0.00	0.02	0.00	8.03	2.00	0.00	0.00	0.02	0.00
8.05	2.00	0.00	0.00	0.02	0.00	8.07	2.00	0.00	0.00	0.02	0.00
8.09	2.00	0.00	0.00	0.02	0.00	8.11	2.00	0.00	0.00	0.02	0.00
8.13	2.00	0.00	0.00	0.02	0.00	8.15	2.00	0.00	0.00	0.02	0.00
8.17	2.00	0.00	0.00	0.02	0.00	8.19	2.00	0.00	0.00	0.02	0.00
8.21	2.00	0.00	0.00	0.02	0.00	8.23	2.00	0.00	0.00	0.02	0.00
8.25	2.00	0.00	0.00	0.02	0.00	8.27	2.00	0.00	0.00	0.02	0.00
8.29	2.00	0.00	0.00	0.02	0.00	8.31	2.00	0.00	0.00	0.02	0.00
8.33	2.00	0.00	0.00	0.02	0.00	8.35	2.00	0.00	0.00	0.02	0.00
8.37	2.00	0.00	0.00	0.02	0.00	8.39	2.00	0.00	0.00	0.02	0.00
8.41	2.00	0.00	0.00	0.02	0.00	8.43	2.00	0.00	0.00	0.02	0.00
8.45	2.00	0.00	0.00	0.02	0.00	8.47	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
8.49	2.00	0.00	0.00	0.02	0.00	8.51	2.00	0.00	0.00	0.02	0.00
8.53	2.00	0.00	0.00	0.02	0.00	8.55	2.00	0.00	0.00	0.02	0.00
8.57	2.00	0.00	0.00	0.02	0.00	8.59	2.00	0.00	0.00	0.02	0.00
8.61	2.00	0.00	0.00	0.02	0.00	8.63	2.00	0.00	0.00	0.02	0.00
8.65	2.00	0.00	0.00	0.02	0.00	8.67	2.00	0.00	0.00	0.02	0.00
8.69	2.00	0.00	0.00	0.02	0.00	8.71	2.00	0.00	0.00	0.02	0.00
8.73	2.00	0.00	0.00	0.02	0.00	8.75	2.00	0.00	0.00	0.02	0.00
8.77	2.00	0.00	0.00	0.02	0.00	8.79	2.00	0.00	0.00	0.02	0.00
8.81	2.00	0.00	0.00	0.02	0.00	8.83	2.00	0.00	0.00	0.02	0.00
8.85	2.00	0.00	0.00	0.02	0.00	8.87	2.00	0.00	0.00	0.02	0.00
8.89	2.00	0.00	0.00	0.02	0.00	8.91	2.00	0.00	0.00	0.02	0.00
8.93	2.00	0.00	0.00	0.02	0.00	8.95	2.00	0.00	0.00	0.02	0.00
8.97	2.00	0.00	0.00	0.02	0.00	8.99	2.00	0.00	0.00	0.02	0.00
9.01	2.00	0.00	0.00	0.02	0.00	9.03	2.00	0.00	0.00	0.02	0.00
9.05	2.00	0.00	0.00	0.02	0.00	9.07	2.00	0.00	0.00	0.02	0.00
9.09	2.00	0.00	0.00	0.02	0.00	9.11	2.00	0.00	0.00	0.02	0.00
9.13	2.00	0.00	0.00	0.02	0.00	9.15	2.00	0.00	0.00	0.02	0.00
9.17	2.00	0.00	0.00	0.02	0.00	9.19	2.00	0.00	0.00	0.02	0.00
9.21	2.00	0.00	0.00	0.02	0.00	9.23	2.00	0.00	0.00	0.02	0.00
9.25	2.00	0.00	0.00	0.02	0.00	9.27	2.00	0.00	0.00	0.02	0.00
9.29	2.00	0.00	0.00	0.02	0.00	9.31	2.00	0.00	0.00	0.02	0.00
9.33	2.00	0.00	0.00	0.02	0.00	9.35	2.00	0.00	0.00	0.02	0.00
9.37	2.00	0.00	0.00	0.02	0.00	9.39	2.00	0.00	0.00	0.02	0.00
9.41	2.00	0.00	0.00	0.02	0.00	9.43	2.00	0.00	0.00	0.02	0.00
9.45	2.00	0.00	0.00	0.02	0.00	9.47	2.00	0.00	0.00	0.02	0.00
9.49	2.00	0.00	0.00	0.02	0.00	9.51	2.00	0.00	0.00	0.02	0.00
9.53	2.00	0.00	0.00	0.02	0.00	9.55	2.00	0.00	0.00	0.02	0.00
9.57	2.00	0.00	0.00	0.02	0.00	9.59	2.00	0.00	0.00	0.02	0.00
9.61	2.00	0.00	0.00	0.02	0.00	9.63	2.00	0.00	0.00	0.02	0.00
9.65	2.00	0.00	0.00	0.02	0.00	9.67	2.00	0.00	0.00	0.02	0.00
9.69	2.00	0.00	0.00	0.02	0.00	9.71	2.00	0.00	0.00	0.02	0.00
9.73	2.00	0.00	0.00	0.02	0.00	9.75	2.00	0.00	0.00	0.02	0.00
9.77	2.00	0.00	0.00	0.02	0.00	9.79	2.00	0.00	0.00	0.02	0.00
9.81	2.00	0.00	0.00	0.02	0.00	9.83	2.00	0.00	0.00	0.02	0.00
9.85	2.00	0.00	0.00	0.02	0.00	9.87	2.00	0.00	0.00	0.02	0.00
9.89	2.00	0.00	0.00	0.02	0.00	9.91	2.00	0.00	0.00	0.02	0.00
9.93	2.00	0.00	0.00	0.02	0.00	9.95	2.00	0.00	0.00	0.02	0.00
9.97	2.00	0.00	0.00	0.02	0.00	9.99	2.00	0.00	0.00	0.02	0.00
10.01	2.00	0.00	0.00	0.02	0.00	10.03	2.00	0.00	0.00	0.02	0.00
10.05	2.00	0.00	0.00	0.02	0.00	10.07	2.00	0.00	0.00	0.02	0.00
10.09	2.00	0.00	0.00	0.02	0.00	10.11	2.00	0.00	0.00	0.02	0.00
10.13	2.00	0.00	0.00	0.02	0.00	10.15	2.00	0.00	0.00	0.02	0.00
10.17	2.00	0.00	0.00	0.02	0.00	10.19	2.00	0.00	0.00	0.02	0.00
10.21	2.00	0.00	0.00	0.02	0.00	10.23	2.00	0.00	0.00	0.02	0.00
10.25	2.00	0.00	0.00	0.02	0.00	10.27	2.00	0.00	0.00	0.02	0.00
10.29	2.00	0.00	0.00	0.02	0.00	10.31	2.00	0.00	0.00	0.02	0.00
10.33	2.00	0.00	0.00	0.02	0.00	10.35	2.00	0.00	0.00	0.02	0.00
10.37	2.00	0.00	0.00	0.02	0.00	10.39	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
10.41	2.00	0.00	0.00	0.02	0.00	10.43	2.00	0.00	0.00	0.02	0.00
10.45	2.00	0.00	0.00	0.02	0.00	10.47	2.00	0.00	0.00	0.02	0.00
10.49	2.00	0.00	0.00	0.02	0.00	10.51	2.00	0.00	0.00	0.02	0.00
10.53	2.00	0.00	0.00	0.02	0.00	10.55	2.00	0.00	0.00	0.02	0.00
10.57	2.00	0.00	0.00	0.02	0.00	10.59	2.00	0.00	0.00	0.02	0.00
10.61	2.00	0.00	0.00	0.02	0.00	10.63	2.00	0.00	0.00	0.02	0.00
10.65	2.00	0.00	0.00	0.02	0.00	10.67	2.00	0.00	0.00	0.02	0.00
10.69	2.00	0.00	0.00	0.02	0.00	10.71	2.00	0.00	0.00	0.02	0.00
10.73	2.00	0.00	0.00	0.02	0.00	10.75	2.00	0.00	0.00	0.02	0.00
10.77	2.00	0.00	0.00	0.02	0.00	10.79	2.00	0.00	0.00	0.02	0.00
10.81	2.00	0.00	0.00	0.02	0.00	10.83	2.00	0.00	0.00	0.02	0.00
10.85	2.00	0.00	0.00	0.02	0.00	10.87	2.00	0.00	0.00	0.02	0.00
10.89	2.00	0.00	0.00	0.02	0.00	10.91	2.00	0.00	0.00	0.02	0.00
10.93	2.00	0.00	0.00	0.02	0.00	10.95	2.00	0.00	0.00	0.02	0.00
10.97	2.00	0.00	0.00	0.02	0.00	10.99	2.00	0.00	0.00	0.02	0.00
11.01	2.00	0.00	0.00	0.02	0.00	11.03	2.00	0.00	0.00	0.02	0.00
11.05	2.00	0.00	0.00	0.02	0.00	11.07	2.00	0.00	0.00	0.02	0.00
11.09	2.00	0.00	0.00	0.02	0.00	11.11	2.00	0.00	0.00	0.02	0.00
11.13	2.00	0.00	0.00	0.02	0.00	11.15	2.00	0.00	0.00	0.02	0.00
11.17	2.00	0.00	0.00	0.02	0.00	11.19	2.00	0.00	0.00	0.02	0.00
11.21	2.00	0.00	0.00	0.02	0.00	11.23	2.00	0.00	0.00	0.02	0.00
11.25	2.00	0.00	0.00	0.02	0.00	11.27	2.00	0.00	0.00	0.02	0.00
11.29	2.00	0.00	0.00	0.02	0.00	11.31	2.00	0.00	0.00	0.02	0.00
11.33	2.00	0.00	0.00	0.02	0.00	11.35	2.00	0.00	0.00	0.02	0.00
11.37	2.00	0.00	0.00	0.02	0.00	11.39	2.00	0.00	0.00	0.02	0.00
11.41	2.00	0.00	0.00	0.02	0.00	11.43	2.00	0.00	0.00	0.02	0.00
11.45	2.00	0.00	0.00	0.02	0.00	11.47	2.00	0.00	0.00	0.02	0.00
11.49	2.00	0.00	0.00	0.02	0.00	11.51	2.00	0.00	0.00	0.02	0.00
11.53	2.00	0.00	0.00	0.02	0.00	11.55	2.00	0.00	0.00	0.02	0.00
11.57	2.00	0.00	0.00	0.02	0.00	11.59	2.00	0.00	0.00	0.02	0.00
11.61	2.00	0.00	0.00	0.02	0.00	11.63	2.00	0.00	0.00	0.02	0.00
11.65	2.00	0.00	0.00	0.02	0.00	11.67	2.00	0.00	0.00	0.02	0.00
11.69	2.00	0.00	0.00	0.02	0.00	11.71	2.00	0.00	0.00	0.02	0.00
11.73	2.00	0.00	0.00	0.02	0.00	11.75	2.00	0.00	0.00	0.02	0.00
11.77	2.00	0.00	0.00	0.02	0.00	11.79	2.00	0.00	0.00	0.02	0.00
11.81	2.00	0.00	0.00	0.02	0.00	11.83	2.00	0.00	0.00	0.02	0.00
11.85	2.00	0.00	0.00	0.02	0.00	11.87	2.00	0.00	0.00	0.02	0.00
11.89	2.00	0.00	0.00	0.02	0.00	11.91	2.00	0.00	0.00	0.02	0.00
11.93	2.00	0.00	0.00	0.02	0.00	11.95	2.00	0.00	0.00	0.02	0.00
11.97	2.00	0.00	0.00	0.02	0.00	11.99	2.00	0.00	0.00	0.02	0.00
12.01	2.00	0.00	0.00	0.02	0.00	12.03	2.00	0.00	0.00	0.02	0.00
12.05	2.00	0.00	0.00	0.02	0.00	12.07	2.00	0.00	0.00	0.02	0.00
12.09	2.00	0.00	0.00	0.02	0.00	12.11	2.00	0.00	0.00	0.02	0.00
12.13	2.00	0.00	0.00	0.02	0.00	12.15	2.00	0.00	0.00	0.02	0.00
12.17	2.00	0.00	0.00	0.02	0.00	12.19	2.00	0.00	0.00	0.02	0.00
12.21	2.00	0.00	0.00	0.02	0.00	12.23	2.00	0.00	0.00	0.02	0.00
12.25	2.00	0.00	0.00	0.02	0.00	12.27	1.90	0.00	0.00	0.02	0.00
12.29	2.00	0.00	0.00	0.02	0.00	12.31	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
12.33	2.00	0.00	0.00	0.02	0.00	12.35	2.00	0.00	0.00	0.02	0.00
12.37	2.00	0.00	0.00	0.02	0.00	12.39	2.00	0.00	0.00	0.02	0.00
12.41	2.00	0.00	0.00	0.02	0.00	12.43	2.00	0.00	0.00	0.02	0.00
12.45	2.00	0.00	0.00	0.02	0.00	12.47	2.00	0.00	0.00	0.02	0.00
12.49	2.00	0.00	0.00	0.02	0.00	12.51	2.00	0.00	0.00	0.02	0.00
12.53	2.00	0.00	0.00	0.02	0.00	12.55	2.00	0.00	0.00	0.02	0.00
12.57	2.00	0.00	0.00	0.02	0.00	12.59	2.00	0.00	0.00	0.02	0.00
12.61	2.00	0.00	0.00	0.02	0.00	12.63	2.00	0.00	0.00	0.02	0.00
12.65	2.00	0.00	0.00	0.02	0.00	12.67	2.00	0.00	0.00	0.02	0.00
12.69	2.00	0.00	0.00	0.02	0.00	12.71	2.00	0.00	0.00	0.02	0.00
12.73	2.00	0.00	0.00	0.02	0.00	12.75	2.00	0.00	0.00	0.02	0.00
12.77	2.00	0.00	0.00	0.02	0.00	12.79	2.00	0.00	0.00	0.02	0.00
12.81	2.00	0.00	0.00	0.02	0.00	12.83	2.00	0.00	0.00	0.02	0.00
12.85	2.00	0.00	0.00	0.02	0.00	12.87	2.00	0.00	0.00	0.02	0.00
12.89	2.00	0.00	0.00	0.02	0.00	12.91	2.00	0.00	0.00	0.02	0.00
12.93	2.00	0.00	0.00	0.02	0.00	12.95	2.00	0.00	0.00	0.02	0.00
12.97	2.00	0.00	0.00	0.02	0.00	12.99	2.00	0.00	0.00	0.02	0.00
13.01	2.00	0.00	0.00	0.02	0.00	13.03	2.00	0.00	0.00	0.02	0.00
13.05	2.00	0.00	0.00	0.02	0.00	13.07	2.00	0.00	0.00	0.02	0.00
13.09	2.00	0.00	0.00	0.02	0.00	13.11	2.00	0.00	0.00	0.02	0.00
13.13	2.00	0.00	0.00	0.02	0.00	13.15	2.00	0.00	0.00	0.02	0.00
13.17	2.00	0.00	0.00	0.02	0.00	13.19	2.00	0.00	0.00	0.02	0.00
13.21	2.00	0.00	0.00	0.02	0.00	13.23	2.00	0.00	0.00	0.02	0.00
13.25	2.00	0.00	0.00	0.02	0.00	13.27	2.00	0.00	0.00	0.02	0.00
13.29	2.00	0.00	0.00	0.02	0.00	13.31	2.00	0.00	0.00	0.02	0.00
13.33	2.00	0.00	0.00	0.02	0.00	13.35	2.00	0.00	0.00	0.02	0.00
13.37	2.00	0.00	0.00	0.02	0.00	13.39	2.00	0.00	0.00	0.02	0.00
13.41	2.00	0.00	0.00	0.02	0.00	13.43	2.00	0.00	0.00	0.02	0.00
13.45	2.00	0.00	0.00	0.02	0.00	13.47	2.00	0.00	0.00	0.02	0.00
13.49	2.00	0.00	0.00	0.02	0.00	13.51	2.00	0.00	0.00	0.02	0.00
13.53	2.00	0.00	0.00	0.02	0.00	13.55	2.00	0.00	0.00	0.02	0.00
13.57	2.00	0.00	0.00	0.02	0.00	13.59	2.00	0.00	0.00	0.02	0.00
13.61	2.00	0.00	0.00	0.02	0.00	13.63	2.00	0.00	0.00	0.02	0.00
13.65	2.00	0.00	0.00	0.02	0.00	13.67	2.00	0.00	0.00	0.02	0.00
13.69	2.00	0.00	0.00	0.02	0.00	13.71	2.00	0.00	0.00	0.02	0.00
13.73	2.00	0.00	0.00	0.02	0.00	13.75	2.00	0.00	0.00	0.02	0.00
13.77	2.00	0.00	0.00	0.02	0.00	13.79	2.00	0.00	0.00	0.02	0.00
13.81	2.00	0.00	0.00	0.02	0.00	13.83	2.00	0.00	0.00	0.02	0.00
13.85	2.00	0.00	0.00	0.02	0.00	13.87	2.00	0.00	0.00	0.02	0.00
13.89	2.00	0.00	0.00	0.02	0.00	13.91	2.00	0.00	0.00	0.02	0.00
13.93	2.00	0.00	0.00	0.02	0.00	13.95	2.00	0.00	0.00	0.02	0.00
13.97	2.00	0.00	0.00	0.02	0.00	13.99	2.00	0.00	0.00	0.02	0.00
14.01	2.00	0.00	0.00	0.02	0.00	14.03	2.00	0.00	0.00	0.02	0.00
14.05	2.00	0.00	0.00	0.02	0.00	14.07	2.00	0.00	0.00	0.02	0.00
14.09	2.00	0.00	0.00	0.02	0.00	14.11	2.00	0.00	0.00	0.02	0.00
14.13	2.00	0.00	0.00	0.02	0.00	14.15	2.00	0.00	0.00	0.02	0.00
14.17	2.00	0.00	0.00	0.02	0.00	14.19	2.00	0.00	0.00	0.02	0.00
14.21	2.00	0.00	0.00	0.02	0.00	14.23	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
14.25	2.00	0.00	0.00	0.02	0.00	14.27	2.00	0.00	0.00	0.02	0.00
14.29	2.00	0.00	0.00	0.02	0.00	14.31	2.00	0.00	0.00	0.02	0.00
14.33	2.00	0.00	0.00	0.02	0.00	14.35	1.86	0.00	0.00	0.02	0.00
14.37	2.00	0.00	0.00	0.02	0.00	14.39	2.00	0.00	0.00	0.02	0.00
14.41	2.00	0.00	0.00	0.02	0.00	14.43	2.00	0.00	0.00	0.02	0.00
14.45	2.00	0.00	0.00	0.02	0.00	14.47	2.00	0.00	0.00	0.02	0.00
14.49	2.00	0.00	0.00	0.02	0.00	14.51	2.00	0.00	0.00	0.02	0.00
14.53	2.00	0.00	0.00	0.02	0.00	14.55	2.00	0.00	0.00	0.02	0.00
14.57	2.00	0.00	0.00	0.02	0.00	14.59	2.00	0.00	0.00	0.02	0.00
14.61	2.00	0.00	0.00	0.02	0.00	14.63	2.00	0.00	0.00	0.02	0.00
14.65	2.00	0.00	0.00	0.02	0.00	14.67	2.00	0.00	0.00	0.02	0.00
14.69	2.00	0.00	0.00	0.02	0.00	14.71	2.00	0.00	0.00	0.02	0.00
14.73	2.00	0.00	0.00	0.02	0.00	14.75	2.00	0.00	0.00	0.02	0.00
14.77	2.00	0.00	0.00	0.02	0.00	14.79	2.00	0.00	0.00	0.02	0.00
14.81	2.00	0.00	0.00	0.02	0.00	14.83	2.00	0.00	0.00	0.02	0.00
14.85	2.00	0.00	0.00	0.02	0.00	14.87	2.00	0.00	0.00	0.02	0.00
14.89	2.00	0.00	0.00	0.02	0.00	14.91	2.00	0.00	0.00	0.02	0.00
14.93	2.00	0.00	0.00	0.02	0.00	14.95	2.00	0.00	0.00	0.02	0.00
14.97	2.00	0.00	0.00	0.02	0.00	14.99	2.00	0.00	0.00	0.02	0.00
15.01	2.00	0.00	0.00	0.02	0.00	15.03	2.00	0.00	0.00	0.02	0.00
15.05	2.00	0.00	0.00	0.02	0.00	15.07	2.00	0.00	0.00	0.02	0.00
15.09	2.00	0.00	0.00	0.02	0.00	15.11	2.00	0.00	0.00	0.02	0.00
15.13	2.00	0.00	0.00	0.02	0.00	15.15	2.00	0.00	0.00	0.02	0.00
15.17	2.00	0.00	0.00	0.02	0.00	15.19	2.00	0.00	0.00	0.02	0.00
15.21	2.00	0.00	0.00	0.02	0.00	15.23	2.00	0.00	0.00	0.02	0.00
15.25	2.00	0.00	0.00	0.02	0.00	15.27	2.00	0.00	0.00	0.02	0.00
15.29	2.00	0.00	0.00	0.02	0.00	15.31	2.00	0.00	0.00	0.02	0.00
15.33	2.00	0.00	0.00	0.02	0.00	15.35	2.00	0.00	0.00	0.02	0.00
15.37	2.00	0.00	0.00	0.02	0.00	15.39	2.00	0.00	0.00	0.02	0.00
15.41	2.00	0.00	0.00	0.02	0.00	15.43	2.00	0.00	0.00	0.02	0.00
15.45	2.00	0.00	0.00	0.02	0.00	15.47	2.00	0.00	0.00	0.02	0.00
15.49	2.00	0.00	0.00	0.02	0.00	15.51	2.00	0.00	0.00	0.02	0.00
15.53	2.00	0.00	0.00	0.02	0.00	15.55	2.00	0.00	0.00	0.02	0.00
15.57	2.00	0.00	0.00	0.02	0.00	15.59	2.00	0.00	0.00	0.02	0.00
15.61	2.00	0.00	0.00	0.02	0.00	15.63	2.00	0.00	0.00	0.02	0.00
15.65	1.96	0.00	0.00	0.02	0.00	15.67	2.00	0.00	0.00	0.02	0.00
15.69	2.00	0.00	0.00	0.02	0.00	15.71	2.00	0.00	0.00	0.02	0.00
15.73	2.00	0.00	0.00	0.02	0.00	15.75	2.00	0.00	0.00	0.02	0.00
15.77	2.00	0.00	0.00	0.02	0.00	15.79	2.00	0.00	0.00	0.02	0.00
15.81	2.00	0.00	0.00	0.02	0.00	15.83	2.00	0.00	0.00	0.02	0.00
15.85	2.00	0.00	0.00	0.02	0.00	15.87	2.00	0.00	0.00	0.02	0.00
15.89	2.00	0.00	0.00	0.02	0.00	15.91	2.00	0.00	0.00	0.02	0.00
15.93	2.00	0.00	0.00	0.02	0.00	15.95	2.00	0.00	0.00	0.02	0.00
15.97	2.00	0.00	0.00	0.02	0.00	15.99	2.00	0.00	0.00	0.02	0.00
16.01	2.00	0.00	0.00	0.02	0.00	16.03	2.00	0.00	0.00	0.02	0.00
16.05	2.00	0.00	0.00	0.02	0.00	16.07	2.00	0.00	0.00	0.02	0.00
16.09	2.00	0.00	0.00	0.02	0.00	16.11	2.00	0.00	0.00	0.02	0.00
16.13	2.00	0.00	0.00	0.02	0.00	16.15	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data :: (continued)

Depth (m)	FS	F_L	w_z	d_z	LPI	Depth (m)	FS	F_L	w_z	d_z	LPI
16.17	2.00	0.00	0.00	0.02	0.00						

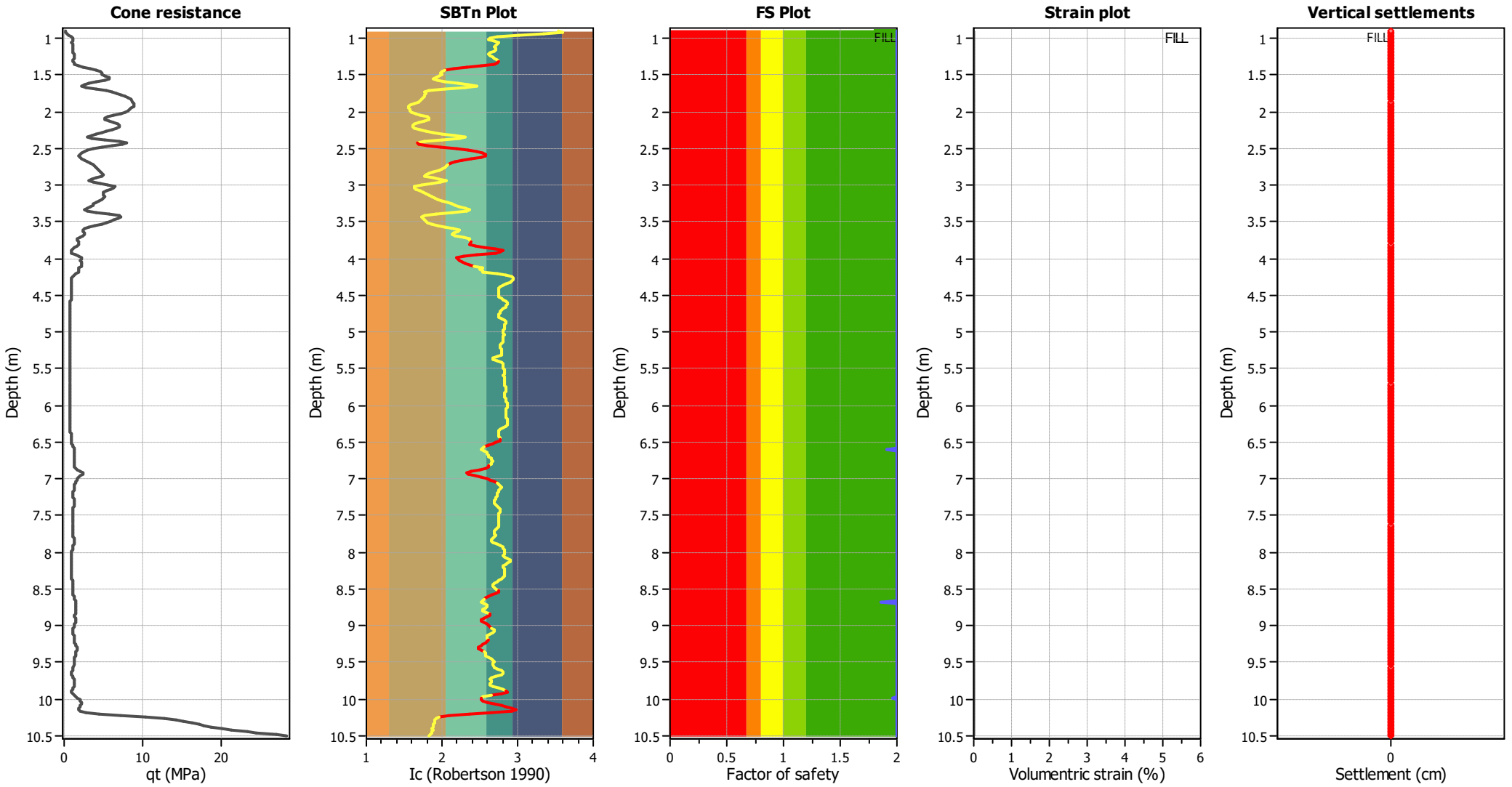
Overall liquefaction potential: 0.00

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

Abbreviations

FS: Calculated factor of safety for test point
F_L: 1 - FS
w_z: Function value of the extend of soil liquefaction according to depth
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

Estimation of post-earthquake settlements



Abbreviations

q_t:	Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c:	Soil Behaviour Type Index
FS:	Calculated Factor of Safety against liquefaction
Volumentric strain:	Post-liquefaction volumentric strain

:: Post-earthquake settlement due to soil liquefaction ::

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
6.57	77.38	2.00	0.00	0.64	0.00	6.59	86.46	2.00	0.00	0.63	0.00
6.61	93.67	2.00	0.00	0.63	0.00	6.63	97.22	2.00	0.00	0.63	0.00
6.65	88.55	2.00	0.00	0.63	0.00	6.67	138.79	2.00	0.00	0.63	0.00
6.69	137.29	2.00	0.00	0.63	0.00	6.71	192.78	2.00	0.00	0.63	0.00
6.73	99.79	2.00	0.00	0.63	0.00	6.75	101.88	2.00	0.00	0.63	0.00
6.77	102.70	2.00	0.00	0.62	0.00	6.79	205.70	2.00	0.00	0.62	0.00
6.81	99.39	2.00	0.00	0.62	0.00	6.83	98.53	2.00	0.00	0.62	0.00
6.85	204.55	2.00	0.00	0.62	0.00	6.87	166.31	2.00	0.00	0.62	0.00
6.89	148.44	2.00	0.00	0.62	0.00	6.91	165.69	2.00	0.00	0.62	0.00
6.93	204.56	2.00	0.00	0.61	0.00	6.95	244.99	2.00	0.00	0.61	0.00
6.97	116.01	2.00	0.00	0.61	0.00	6.99	120.97	2.00	0.00	0.61	0.00
7.01	122.85	2.00	0.00	0.61	0.00	7.03	253.95	2.00	0.00	0.61	0.00
7.05	115.01	2.00	0.00	0.61	0.00	7.07	95.97	2.00	0.00	0.61	0.00
7.09	98.55	2.00	0.00	0.61	0.00	7.11	109.71	2.00	0.00	0.60	0.00
7.13	118.60	2.00	0.00	0.60	0.00	7.15	121.16	2.00	0.00	0.60	0.00
7.17	123.84	2.00	0.00	0.60	0.00	7.19	130.85	2.00	0.00	0.60	0.00
7.21	138.66	2.00	0.00	0.60	0.00	7.23	139.47	2.00	0.00	0.60	0.00
7.25	126.35	2.00	0.00	0.60	0.00	7.27	109.53	2.00	0.00	0.60	0.00
7.29	101.33	2.00	0.00	0.59	0.00	7.31	107.03	2.00	0.00	0.59	0.00
7.33	115.42	2.00	0.00	0.59	0.00	7.35	103.76	2.00	0.00	0.59	0.00
7.37	104.88	2.00	0.00	0.59	0.00	7.39	122.75	2.00	0.00	0.59	0.00
7.41	131.95	2.00	0.00	0.59	0.00	7.43	145.52	2.00	0.00	0.59	0.00
7.45	159.72	2.00	0.00	0.59	0.00	7.47	169.97	2.00	0.00	0.58	0.00
7.49	174.59	2.00	0.00	0.58	0.00	7.51	174.36	2.00	0.00	0.58	0.00
7.53	171.09	2.00	0.00	0.58	0.00	7.55	174.49	2.00	0.00	0.58	0.00
7.57	171.29	2.00	0.00	0.58	0.00	7.59	165.73	2.00	0.00	0.58	0.00
7.61	161.53	2.00	0.00	0.58	0.00	7.63	158.13	2.00	0.00	0.58	0.00
7.65	154.79	2.00	0.00	0.57	0.00	7.67	149.44	2.00	0.00	0.57	0.00
7.69	139.03	2.00	0.00	0.57	0.00	7.71	127.58	2.00	0.00	0.57	0.00
7.73	124.97	2.00	0.00	0.57	0.00	7.75	120.77	2.00	0.00	0.57	0.00
7.77	121.50	2.00	0.00	0.57	0.00	7.79	124.08	2.00	0.00	0.57	0.00
7.81	122.36	2.00	0.00	0.57	0.00	7.83	128.48	2.00	0.00	0.56	0.00
7.85	129.84	2.00	0.00	0.56	0.00	7.87	130.11	2.00	0.00	0.56	0.00
7.89	125.74	2.00	0.00	0.56	0.00	7.91	119.29	2.00	0.00	0.56	0.00
7.93	119.93	2.00	0.00	0.56	0.00	7.95	113.84	2.00	0.00	0.56	0.00
7.97	104.85	2.00	0.00	0.56	0.00	7.99	105.09	2.00	0.00	0.56	0.00
8.01	117.82	2.00	0.00	0.56	0.00	8.03	119.49	2.00	0.00	0.55	0.00
8.05	132.96	2.00	0.00	0.55	0.00	8.07	153.85	2.00	0.00	0.55	0.00
8.09	148.82	2.00	0.00	0.55	0.00	8.11	138.84	2.00	0.00	0.55	0.00
8.13	140.78	2.00	0.00	0.55	0.00	8.15	122.41	2.00	0.00	0.55	0.00
8.17	115.62	2.00	0.00	0.55	0.00	8.19	122.34	2.00	0.00	0.55	0.00
8.21	134.71	2.00	0.00	0.54	0.00	8.23	148.90	2.00	0.00	0.54	0.00
8.25	190.36	2.00	0.00	0.54	0.00	8.27	178.55	2.00	0.00	0.54	0.00
8.29	116.58	2.00	0.00	0.54	0.00	8.31	96.98	2.00	0.00	0.54	0.00
8.33	90.41	2.00	0.00	0.54	0.00	8.35	89.82	2.00	0.00	0.54	0.00
8.37	94.29	2.00	0.00	0.54	0.00	8.39	99.57	2.00	0.00	0.53	0.00
8.41	104.37	2.00	0.00	0.53	0.00	8.43	108.14	2.00	0.00	0.53	0.00
8.45	110.92	2.00	0.00	0.53	0.00	8.47	111.73	2.00	0.00	0.53	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
8.49	111.03	2.00	0.00	0.53	0.00	8.51	106.64	2.00	0.00	0.53	0.00
8.53	101.67	2.00	0.00	0.53	0.00	8.55	86.90	2.00	0.00	0.53	0.00
8.57	92.74	2.00	0.00	0.52	0.00	8.59	88.57	2.00	0.00	0.52	0.00
8.61	85.20	2.00	0.00	0.52	0.00	8.63	92.69	2.00	0.00	0.52	0.00
8.65	103.89	2.00	0.00	0.52	0.00	8.67	98.83	2.00	0.00	0.52	0.00
8.69	108.19	2.00	0.00	0.52	0.00	8.71	105.89	2.00	0.00	0.52	0.00
8.73	100.64	2.00	0.00	0.52	0.00	8.75	92.28	2.00	0.00	0.51	0.00
8.77	87.75	2.00	0.00	0.51	0.00	8.79	99.96	2.00	0.00	0.51	0.00
8.81	107.07	2.00	0.00	0.51	0.00	8.83	111.69	2.00	0.00	0.51	0.00
8.85	113.59	2.00	0.00	0.51	0.00	8.87	112.38	2.00	0.00	0.51	0.00
8.89	109.50	2.00	0.00	0.51	0.00	8.91	107.38	2.00	0.00	0.51	0.00
8.93	107.93	2.00	0.00	0.50	0.00	8.95	110.67	2.00	0.00	0.50	0.00
8.97	109.46	2.00	0.00	0.50	0.00	8.99	108.92	2.00	0.00	0.50	0.00
9.01	113.24	2.00	0.00	0.50	0.00	9.03	115.60	2.00	0.00	0.50	0.00
9.05	115.84	2.00	0.00	0.50	0.00	9.07	128.86	2.00	0.00	0.50	0.00
9.09	133.16	2.00	0.00	0.49	0.00	9.11	126.42	2.00	0.00	0.49	0.00
9.13	122.59	2.00	0.00	0.49	0.00	9.15	118.45	2.00	0.00	0.49	0.00
9.17	113.99	2.00	0.00	0.49	0.00	9.19	107.33	2.00	0.00	0.49	0.00
9.21	99.44	2.00	0.00	0.49	0.00	9.23	87.35	2.00	0.00	0.49	0.00
9.25	77.52	2.00	0.00	0.49	0.00	9.27	74.18	2.00	0.00	0.48	0.00
9.29	76.10	2.00	0.00	0.48	0.00	9.31	77.76	2.00	0.00	0.48	0.00
9.33	74.91	2.00	0.00	0.48	0.00	9.35	71.44	2.00	0.00	0.48	0.00
9.37	68.50	2.00	0.00	0.48	0.00	9.39	69.30	2.00	0.00	0.48	0.00
9.41	73.17	2.00	0.00	0.48	0.00	9.43	73.24	2.00	0.00	0.48	0.00
9.45	75.91	2.00	0.00	0.47	0.00	9.47	74.67	2.00	0.00	0.47	0.00
9.49	78.43	2.00	0.00	0.47	0.00	9.51	101.24	2.00	0.00	0.47	0.00
9.53	93.31	2.00	0.00	0.47	0.00	9.55	96.67	2.00	0.00	0.47	0.00
9.57	93.32	2.00	0.00	0.47	0.00	9.59	87.01	2.00	0.00	0.47	0.00
9.61	73.79	2.00	0.00	0.47	0.00	9.63	66.52	2.00	0.00	0.47	0.00
9.65	65.30	2.00	0.00	0.46	0.00	9.67	64.57	2.00	0.00	0.46	0.00
9.69	64.27	2.00	0.00	0.46	0.00	9.71	71.77	2.00	0.00	0.46	0.00
9.73	82.92	2.00	0.00	0.46	0.00	9.75	94.06	2.00	0.00	0.46	0.00
9.77	100.65	2.00	0.00	0.46	0.00	9.79	124.71	2.00	0.00	0.46	0.00
9.81	107.93	2.00	0.00	0.46	0.00	9.83	126.70	2.00	0.00	0.45	0.00
9.85	126.42	2.00	0.00	0.45	0.00	9.87	134.76	2.00	0.00	0.45	0.00
9.89	147.10	2.00	0.00	0.45	0.00	9.91	149.09	2.00	0.00	0.45	0.00
9.93	143.90	2.00	0.00	0.45	0.00	9.95	139.82	2.00	0.00	0.45	0.00
9.97	132.73	2.00	0.00	0.45	0.00	9.99	123.75	2.00	0.00	0.45	0.00
10.01	112.38	2.00	0.00	0.44	0.00	10.03	104.72	2.00	0.00	0.44	0.00
10.05	99.25	2.00	0.00	0.44	0.00	10.07	96.80	2.00	0.00	0.44	0.00
10.09	95.89	2.00	0.00	0.44	0.00	10.11	95.11	2.00	0.00	0.44	0.00
10.13	94.72	2.00	0.00	0.44	0.00	10.15	94.35	2.00	0.00	0.44	0.00
10.17	95.37	2.00	0.00	0.43	0.00	10.19	95.68	2.00	0.00	0.43	0.00
10.21	95.94	2.00	0.00	0.43	0.00	10.23	95.52	2.00	0.00	0.43	0.00
10.25	95.34	2.00	0.00	0.43	0.00	10.27	93.85	2.00	0.00	0.43	0.00
10.29	91.35	2.00	0.00	0.43	0.00	10.31	87.24	2.00	0.00	0.43	0.00
10.33	83.43	2.00	0.00	0.43	0.00	10.35	80.10	2.00	0.00	0.42	0.00
10.37	77.74	2.00	0.00	0.42	0.00	10.39	76.53	2.00	0.00	0.42	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
10.41	76.28	2.00	0.00	0.42	0.00	10.43	75.87	2.00	0.00	0.42	0.00
10.45	75.33	2.00	0.00	0.42	0.00	10.47	76.34	2.00	0.00	0.42	0.00
10.49	79.32	2.00	0.00	0.42	0.00	10.51	80.82	2.00	0.00	0.42	0.00
10.53	79.88	2.00	0.00	0.41	0.00	10.55	76.52	2.00	0.00	0.41	0.00
10.57	74.70	2.00	0.00	0.41	0.00	10.59	73.66	2.00	0.00	0.41	0.00
10.61	73.44	2.00	0.00	0.41	0.00	10.63	72.53	2.00	0.00	0.41	0.00
10.65	71.45	2.00	0.00	0.41	0.00	10.67	70.62	2.00	0.00	0.41	0.00
10.69	70.39	2.00	0.00	0.41	0.00	10.71	70.27	2.00	0.00	0.41	0.00
10.73	69.61	2.00	0.00	0.40	0.00	10.75	69.09	2.00	0.00	0.40	0.00
10.77	68.75	2.00	0.00	0.40	0.00	10.79	68.33	2.00	0.00	0.40	0.00
10.81	67.69	2.00	0.00	0.40	0.00	10.83	66.84	2.00	0.00	0.40	0.00
10.85	66.57	2.00	0.00	0.40	0.00	10.87	66.64	2.00	0.00	0.40	0.00
10.89	66.88	2.00	0.00	0.40	0.00	10.91	66.95	2.00	0.00	0.39	0.00
10.93	67.18	2.00	0.00	0.39	0.00	10.95	67.51	2.00	0.00	0.39	0.00
10.97	67.74	2.00	0.00	0.39	0.00	10.99	67.45	2.00	0.00	0.39	0.00
11.01	62.20	2.00	0.00	0.39	0.00	11.03	111.13	2.00	0.00	0.39	0.00
11.05	116.93	2.00	0.00	0.39	0.00	11.07	67.84	2.00	0.00	0.39	0.00
11.09	75.73	2.00	0.00	0.38	0.00	11.11	76.67	2.00	0.00	0.38	0.00
11.13	76.22	2.00	0.00	0.38	0.00	11.15	76.12	2.00	0.00	0.38	0.00
11.17	75.80	2.00	0.00	0.38	0.00	11.19	75.21	2.00	0.00	0.38	0.00
11.21	73.54	2.00	0.00	0.38	0.00	11.23	71.72	2.00	0.00	0.38	0.00
11.25	69.77	2.00	0.00	0.38	0.00	11.27	68.50	2.00	0.00	0.37	0.00
11.29	68.45	2.00	0.00	0.37	0.00	11.31	68.89	2.00	0.00	0.37	0.00
11.33	69.23	2.00	0.00	0.37	0.00	11.35	69.40	2.00	0.00	0.37	0.00
11.37	69.47	2.00	0.00	0.37	0.00	11.39	70.10	2.00	0.00	0.37	0.00
11.41	70.75	2.00	0.00	0.37	0.00	11.43	71.31	2.00	0.00	0.36	0.00
11.45	71.20	2.00	0.00	0.36	0.00	11.47	70.83	2.00	0.00	0.36	0.00
11.49	70.45	2.00	0.00	0.36	0.00	11.51	70.19	2.00	0.00	0.36	0.00
11.53	70.17	2.00	0.00	0.36	0.00	11.55	70.12	2.00	0.00	0.36	0.00
11.57	70.24	2.00	0.00	0.36	0.00	11.59	70.19	2.00	0.00	0.36	0.00
11.61	70.14	2.00	0.00	0.35	0.00	11.63	70.08	2.00	0.00	0.35	0.00
11.65	70.01	2.00	0.00	0.35	0.00	11.67	69.78	2.00	0.00	0.35	0.00
11.69	69.54	2.00	0.00	0.35	0.00	11.71	68.98	2.00	0.00	0.35	0.00
11.73	68.67	2.00	0.00	0.35	0.00	11.75	68.27	2.00	0.00	0.35	0.00
11.77	68.35	2.00	0.00	0.35	0.00	11.79	68.25	2.00	0.00	0.34	0.00
11.81	68.19	2.00	0.00	0.34	0.00	11.83	68.14	2.00	0.00	0.34	0.00
11.85	68.46	2.00	0.00	0.34	0.00	11.87	68.67	2.00	0.00	0.34	0.00
11.89	68.84	2.00	0.00	0.34	0.00	11.91	68.86	2.00	0.00	0.34	0.00
11.93	68.99	2.00	0.00	0.34	0.00	11.95	68.34	2.00	0.00	0.34	0.00
11.97	66.71	2.00	0.00	0.34	0.00	11.99	65.15	2.00	0.00	0.33	0.00
12.01	64.53	2.00	0.00	0.33	0.00	12.03	65.11	2.00	0.00	0.33	0.00
12.05	66.43	2.00	0.00	0.33	0.00	12.07	67.49	2.00	0.00	0.33	0.00
12.09	69.37	2.00	0.00	0.33	0.00	12.11	70.58	2.00	0.00	0.33	0.00
12.13	71.53	2.00	0.00	0.33	0.00	12.15	71.40	2.00	0.00	0.33	0.00
12.17	68.90	2.00	0.00	0.32	0.00	12.19	124.45	2.00	0.00	0.32	0.00
12.21	98.45	2.00	0.00	0.32	0.00	12.23	70.64	2.00	0.00	0.32	0.00
12.25	65.42	2.00	0.00	0.32	0.00	12.27	64.35	1.90	0.00	0.32	0.00
12.29	84.77	2.00	0.00	0.32	0.00	12.31	98.01	2.00	0.00	0.32	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
12.33	106.06	2.00	0.00	0.32	0.00	12.35	112.52	2.00	0.00	0.31	0.00
12.37	123.50	2.00	0.00	0.31	0.00	12.39	140.85	2.00	0.00	0.31	0.00
12.41	154.04	2.00	0.00	0.31	0.00	12.43	155.47	2.00	0.00	0.31	0.00
12.45	145.39	2.00	0.00	0.31	0.00	12.47	138.53	2.00	0.00	0.31	0.00
12.49	122.82	2.00	0.00	0.31	0.00	12.51	117.42	2.00	0.00	0.30	0.00
12.53	97.10	2.00	0.00	0.30	0.00	12.55	70.47	2.00	0.00	0.30	0.00
12.57	66.94	2.00	0.00	0.30	0.00	12.59	68.20	2.00	0.00	0.30	0.00
12.61	71.85	2.00	0.00	0.30	0.00	12.63	77.97	2.00	0.00	0.30	0.00
12.65	85.18	2.00	0.00	0.30	0.00	12.67	122.89	2.00	0.00	0.30	0.00
12.69	160.29	2.00	0.00	0.29	0.00	12.71	207.30	2.00	0.00	0.29	0.00
12.73	104.46	2.00	0.00	0.29	0.00	12.75	105.00	2.00	0.00	0.29	0.00
12.77	104.26	2.00	0.00	0.29	0.00	12.79	101.58	2.00	0.00	0.29	0.00
12.81	97.51	2.00	0.00	0.29	0.00	12.83	91.54	2.00	0.00	0.29	0.00
12.85	87.05	2.00	0.00	0.29	0.00	12.87	84.04	2.00	0.00	0.28	0.00
12.89	82.81	2.00	0.00	0.28	0.00	12.91	82.23	2.00	0.00	0.28	0.00
12.93	81.50	2.00	0.00	0.28	0.00	12.95	80.30	2.00	0.00	0.28	0.00
12.97	163.53	2.00	0.00	0.28	0.00	12.99	163.00	2.00	0.00	0.28	0.00
13.01	170.20	2.00	0.00	0.28	0.00	13.03	82.80	2.00	0.00	0.28	0.00
13.05	84.11	2.00	0.00	0.28	0.00	13.07	85.76	2.00	0.00	0.27	0.00
13.09	86.34	2.00	0.00	0.27	0.00	13.11	86.24	2.00	0.00	0.27	0.00
13.13	84.51	2.00	0.00	0.27	0.00	13.15	83.04	2.00	0.00	0.27	0.00
13.17	81.86	2.00	0.00	0.27	0.00	13.19	81.51	2.00	0.00	0.27	0.00
13.21	81.12	2.00	0.00	0.27	0.00	13.23	80.66	2.00	0.00	0.27	0.00
13.25	80.38	2.00	0.00	0.26	0.00	13.27	79.61	2.00	0.00	0.26	0.00
13.29	78.89	2.00	0.00	0.26	0.00	13.31	77.87	2.00	0.00	0.26	0.00
13.33	76.54	2.00	0.00	0.26	0.00	13.35	74.80	2.00	0.00	0.26	0.00
13.37	154.61	2.00	0.00	0.26	0.00	13.39	146.63	2.00	0.00	0.26	0.00
13.41	151.26	2.00	0.00	0.26	0.00	13.43	73.17	2.00	0.00	0.25	0.00
13.45	73.06	2.00	0.00	0.25	0.00	13.47	143.95	2.00	0.00	0.25	0.00
13.49	130.77	2.00	0.00	0.25	0.00	13.51	133.92	2.00	0.00	0.25	0.00
13.53	152.44	2.00	0.00	0.25	0.00	13.55	81.25	2.00	0.00	0.25	0.00
13.57	84.67	2.00	0.00	0.25	0.00	13.59	86.52	2.00	0.00	0.24	0.00
13.61	84.30	2.00	0.00	0.24	0.00	13.63	83.07	2.00	0.00	0.24	0.00
13.65	81.67	2.00	0.00	0.24	0.00	13.67	80.43	2.00	0.00	0.24	0.00
13.69	78.79	2.00	0.00	0.24	0.00	13.71	76.41	2.00	0.00	0.24	0.00
13.73	75.82	2.00	0.00	0.24	0.00	13.75	76.10	2.00	0.00	0.24	0.00
13.77	77.50	2.00	0.00	0.23	0.00	13.79	78.08	2.00	0.00	0.23	0.00
13.81	76.75	2.00	0.00	0.23	0.00	13.83	75.15	2.00	0.00	0.23	0.00
13.85	73.86	2.00	0.00	0.23	0.00	13.87	74.56	2.00	0.00	0.23	0.00
13.89	75.95	2.00	0.00	0.23	0.00	13.91	77.18	2.00	0.00	0.23	0.00
13.93	76.73	2.00	0.00	0.23	0.00	13.95	75.63	2.00	0.00	0.23	0.00
13.97	74.59	2.00	0.00	0.22	0.00	13.99	74.01	2.00	0.00	0.22	0.00
14.01	72.06	2.00	0.00	0.22	0.00	14.03	68.96	2.00	0.00	0.22	0.00
14.05	66.45	2.00	0.00	0.22	0.00	14.07	63.87	2.00	0.00	0.22	0.00
14.09	62.56	2.00	0.00	0.22	0.00	14.11	120.23	2.00	0.00	0.22	0.00
14.13	121.57	2.00	0.00	0.21	0.00	14.15	129.71	2.00	0.00	0.21	0.00
14.17	63.56	2.00	0.00	0.21	0.00	14.19	64.46	2.00	0.00	0.21	0.00
14.21	64.75	2.00	0.00	0.21	0.00	14.23	63.66	2.00	0.00	0.21	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
14.25	109.42	2.00	0.00	0.21	0.00	14.27	87.41	2.00	0.00	0.21	0.00
14.29	76.09	2.00	0.00	0.21	0.00	14.31	68.41	2.00	0.00	0.20	0.00
14.33	60.94	2.00	0.00	0.20	0.00	14.35	60.59	1.86	0.00	0.20	0.00
14.37	71.11	2.00	0.00	0.20	0.00	14.39	89.93	2.00	0.00	0.20	0.00
14.41	97.34	2.00	0.00	0.20	0.00	14.43	84.23	2.00	0.00	0.20	0.00
14.45	68.71	2.00	0.00	0.20	0.00	14.47	67.12	2.00	0.00	0.20	0.00
14.49	84.98	2.00	0.00	0.20	0.00	14.51	105.95	2.00	0.00	0.19	0.00
14.53	110.14	2.00	0.00	0.19	0.00	14.55	86.72	2.00	0.00	0.19	0.00
14.57	65.77	2.00	0.00	0.19	0.00	14.59	56.57	2.00	0.00	0.19	0.00
14.61	55.96	2.00	0.00	0.19	0.00	14.63	67.38	2.00	0.00	0.19	0.00
14.65	80.70	2.00	0.00	0.19	0.00	14.67	91.48	2.00	0.00	0.18	0.00
14.69	100.24	2.00	0.00	0.18	0.00	14.71	109.21	2.00	0.00	0.18	0.00
14.73	125.75	2.00	0.00	0.18	0.00	14.75	124.95	2.00	0.00	0.18	0.00
14.77	115.23	2.00	0.00	0.18	0.00	14.79	93.71	2.00	0.00	0.18	0.00
14.81	79.67	2.00	0.00	0.18	0.00	14.83	73.92	2.00	0.00	0.18	0.00
14.85	79.32	2.00	0.00	0.17	0.00	14.87	84.25	2.00	0.00	0.17	0.00
14.89	78.69	2.00	0.00	0.17	0.00	14.91	71.00	2.00	0.00	0.17	0.00
14.93	61.22	2.00	0.00	0.17	0.00	14.95	53.28	2.00	0.00	0.17	0.00
14.97	52.82	2.00	0.00	0.17	0.00	14.99	54.42	2.00	0.00	0.17	0.00
15.01	57.70	2.00	0.00	0.17	0.00	15.03	70.73	2.00	0.00	0.17	0.00
15.05	81.10	2.00	0.00	0.16	0.00	15.07	79.60	2.00	0.00	0.16	0.00
15.09	79.77	2.00	0.00	0.16	0.00	15.11	88.11	2.00	0.00	0.16	0.00
15.13	106.20	2.00	0.00	0.16	0.00	15.15	124.40	2.00	0.00	0.16	0.00
15.17	131.80	2.00	0.00	0.16	0.00	15.19	123.25	2.00	0.00	0.16	0.00
15.21	116.08	2.00	0.00	0.15	0.00	15.23	125.82	2.00	0.00	0.15	0.00
15.25	63.65	2.00	0.00	0.15	0.00	15.27	65.95	2.00	0.00	0.15	0.00
15.29	65.27	2.00	0.00	0.15	0.00	15.31	63.61	2.00	0.00	0.15	0.00
15.33	60.64	2.00	0.00	0.15	0.00	15.35	57.22	2.00	0.00	0.15	0.00
15.37	99.87	2.00	0.00	0.15	0.00	15.39	91.49	2.00	0.00	0.14	0.00
15.41	103.99	2.00	0.00	0.14	0.00	15.43	107.92	2.00	0.00	0.14	0.00
15.45	96.70	2.00	0.00	0.14	0.00	15.47	93.59	2.00	0.00	0.14	0.00
15.49	115.24	2.00	0.00	0.14	0.00	15.51	64.32	2.00	0.00	0.14	0.00
15.53	66.67	2.00	0.00	0.14	0.00	15.55	67.00	2.00	0.00	0.14	0.00
15.57	65.89	2.00	0.00	0.14	0.00	15.59	62.87	2.00	0.00	0.13	0.00
15.61	105.07	2.00	0.00	0.13	0.00	15.63	62.16	2.00	0.00	0.13	0.00
15.65	63.24	1.96	0.00	0.13	0.00	15.67	69.32	2.00	0.00	0.13	0.00
15.69	91.31	2.00	0.00	0.13	0.00	15.71	128.30	2.00	0.00	0.13	0.00
15.73	240.52	2.00	0.00	0.13	0.00	15.75	135.18	2.00	0.00	0.13	0.00
15.77	154.96	2.00	0.00	0.12	0.00	15.79	168.81	2.00	0.00	0.12	0.00
15.81	174.56	2.00	0.00	0.12	0.00	15.83	168.12	2.00	0.00	0.12	0.00
15.85	253.02	2.00	0.00	0.12	0.00	15.87	109.29	2.00	0.00	0.12	0.00
15.89	114.16	2.00	0.00	0.12	0.00	15.91	146.63	2.00	0.00	0.12	0.00
15.93	177.88	2.00	0.00	0.12	0.00	15.95	197.56	2.00	0.00	0.11	0.00
15.97	210.80	2.00	0.00	0.11	0.00	15.99	223.16	2.00	0.00	0.11	0.00
16.01	233.22	2.00	0.00	0.11	0.00	16.03	240.88	2.00	0.00	0.11	0.00
16.05	251.94	2.00	0.00	0.11	0.00	16.07	270.39	2.00	0.00	0.11	0.00
16.09	288.01	2.00	0.00	0.11	0.00	16.11	313.09	2.00	0.00	0.10	0.00
16.13	327.53	2.00	0.00	0.10	0.00	16.15	352.18	2.00	0.00	0.10	0.00

:: Post-earthquake settlement due to soil liquefaction :: (continued)

Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)	Depth (m)	$Q_{tn,cs}$	FS	e_v (%)	DF	Settlement (cm)
16.17	362.66	2.00	0.00	0.10	0.00						

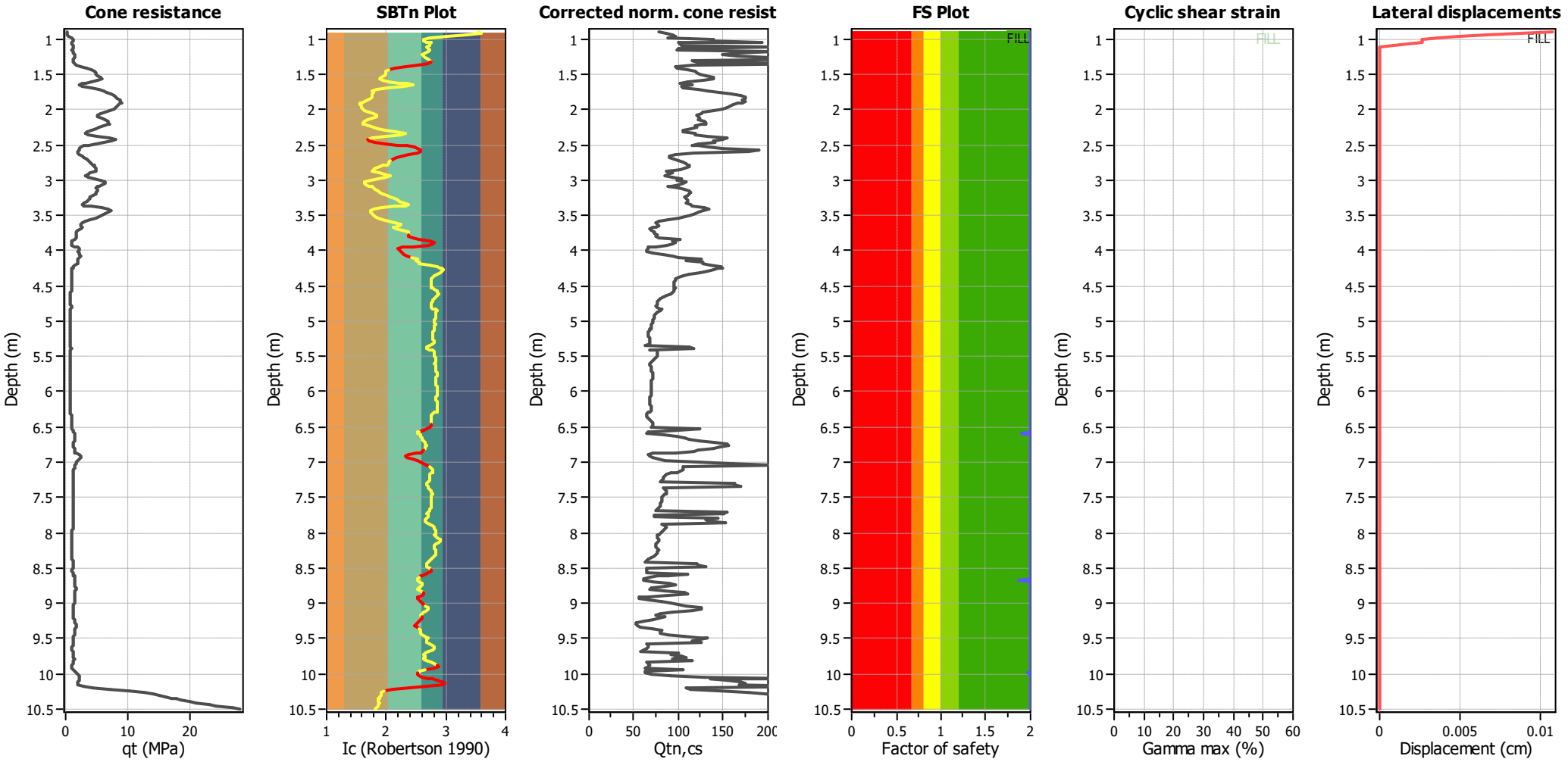
Total estimated settlement: 0.00

Abbreviations

$Q_{tn,cs}$: Equivalent clean sand normalized cone resistance
FS: Factor of safety against liquefaction
e_v (%): Post-liquefaction volumentric strain
DF: e_v depth weighting factor
Settlement: Calculated settlement

Estimation of post-earthquake lateral Displacements

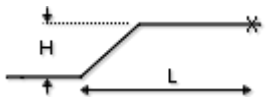
Geometric parameters: Level ground (or gently sloping) with free face (L: 47.00 m - H: 3.40 m)



Abbreviations

q_t: Total cone resistance (cone resistance q_c corrected for pore water effects)
I_c: Soil Behaviour Type Index
$Q_{tn,cs}$: Equivalent clean sand normalized CPT total cone resistance
F.S.: Factor of safety
γ_{max}: Maximum cyclic shear strain
LDI: Lateral displacement index

Surface condition



:: Lateral displacement index calculation ::

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
6.57	0.19	3.43	5.19	77.38	2.00	0.00	0.14	0.00
6.59	0.19	3.42	6.80	86.46	2.00	0.00	0.14	0.00
6.61	0.30	5.69	5.20	93.67	2.00	0.00	0.12	0.00
6.63	0.55	10.64	3.51	97.22	2.00	0.00	0.09	0.00
6.65	0.89	17.23	2.29	88.55	2.00	8.95	0.07	0.00
6.67	1.09	21.15	1.98	138.79	2.00	15.72	0.00	0.00
6.69	1.12	21.83	2.02	137.29	2.00	16.77	0.00	0.00
6.71	1.04	20.21	2.34	192.78	2.00	14.23	0.00	0.00
6.73	0.98	18.93	2.72	99.79	2.00	12.06	0.06	0.00
6.75	1.02	19.82	2.77	101.88	2.00	13.58	0.06	0.00
6.77	1.08	21.03	2.74	102.70	2.00	15.54	0.06	0.00
6.79	1.13	22.04	2.59	205.70	2.00	17.08	0.00	0.00
6.81	1.08	20.91	2.59	99.39	2.00	15.35	0.06	0.00
6.83	1.03	20.00	2.60	98.53	2.00	13.89	0.06	0.00
6.85	1.08	21.02	2.50	204.55	2.00	15.52	0.00	0.00
6.87	1.19	23.18	2.36	166.31	2.00	18.75	0.00	0.00
6.89	1.30	25.24	2.35	148.44	2.00	21.57	0.00	0.00
6.91	1.32	25.66	2.53	165.69	2.00	22.10	0.00	0.00
6.93	1.29	25.17	2.83	204.56	2.00	21.47	0.00	0.00
6.95	1.24	24.17	3.06	244.99	2.00	20.13	0.00	0.00
6.97	1.20	23.28	3.21	116.01	2.00	18.89	0.05	0.00
6.99	1.18	22.97	3.46	120.97	2.00	18.44	0.05	0.00
7.01	1.24	24.09	3.48	122.85	2.00	20.02	0.05	0.00
7.03	1.35	26.30	3.29	253.95	2.00	22.92	0.00	0.00
7.05	1.76	34.24	2.51	115.01	2.00	31.62	0.00	0.00
7.07	2.45	47.85	1.79	95.97	2.00	42.67	0.00	0.00
7.09	3.35	65.59	1.41	98.55	2.00	53.08	0.00	0.00
7.11	4.15	81.47	1.25	109.71	2.00	60.24	0.00	0.00
7.13	4.63	90.87	1.21	118.60	2.00	63.84	0.00	0.00
7.15	4.75	93.30	1.21	121.16	2.00	64.71	0.00	0.00
7.17	4.84	95.03	1.27	123.84	2.00	65.32	0.00	0.00
7.19	5.19	101.91	1.25	130.85	2.00	67.62	0.00	0.00
7.21	5.63	110.72	1.17	138.66	2.00	70.36	0.00	0.00
7.23	5.77	113.39	1.07	139.47	2.00	71.15	0.00	0.00
7.25	5.11	100.35	1.09	126.35	2.00	67.12	0.00	0.00
7.27	4.14	81.27	1.25	109.53	2.00	60.15	0.00	0.00
7.29	3.14	61.46	1.64	101.33	2.00	50.93	0.00	0.00
7.31	2.57	50.17	2.10	107.03	2.00	44.23	0.00	0.00
7.33	2.22	43.23	2.53	115.42	2.00	39.32	0.00	0.00
7.35	2.74	53.60	1.92	103.76	2.00	46.42	0.00	0.00
7.37	4.01	78.67	1.14	104.88	2.00	59.08	0.00	0.00
7.39	5.29	103.95	0.77	122.75	2.00	68.28	0.00	0.00
7.41	6.09	119.64	0.72	131.95	2.00	72.92	0.00	0.00
7.43	6.55	128.82	0.85	145.52	2.00	75.36	0.00	0.00
7.45	7.26	142.70	0.93	159.72	2.00	78.74	0.00	0.00
7.47	7.81	153.52	0.97	169.97	2.00	81.15	0.00	0.00
7.49	8.16	160.58	0.98	174.59	2.00	82.63	0.00	0.00
7.51	8.42	165.60	0.95	174.36	2.00	83.65	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
7.53	8.70	171.09	0.86	171.09	2.00	84.72	0.00	0.00
7.55	8.87	174.49	0.71	174.49	2.00	85.37	0.00	0.00
7.57	8.92	171.29	0.59	171.29	2.00	84.76	0.00	0.00
7.59	8.78	165.73	0.51	165.73	2.00	83.67	0.00	0.00
7.61	8.56	161.53	0.50	161.53	2.00	82.83	0.00	0.00
7.63	8.36	158.13	0.51	158.13	2.00	82.12	0.00	0.00
7.65	8.17	154.79	0.51	154.79	2.00	81.42	0.00	0.00
7.67	7.82	149.44	0.53	149.44	2.00	80.26	0.00	0.00
7.69	7.15	139.03	0.57	139.03	2.00	77.88	0.00	0.00
7.71	6.30	123.67	0.64	127.58	2.00	74.01	0.00	0.00
7.73	5.53	108.51	0.73	124.97	2.00	69.70	0.00	0.00
7.75	5.19	101.68	0.77	120.77	2.00	67.55	0.00	0.00
7.77	5.22	102.31	0.77	121.50	2.00	67.75	0.00	0.00
7.79	5.72	112.29	0.67	124.08	2.00	70.83	0.00	0.00
7.81	6.27	122.36	0.56	122.36	2.00	73.66	0.00	0.00
7.83	6.80	128.48	0.48	128.48	2.00	75.27	0.00	0.00
7.85	6.95	129.84	0.45	129.84	2.00	75.62	0.00	0.00
7.87	6.99	130.11	0.44	130.11	2.00	75.69	0.00	0.00
7.89	6.70	125.74	0.46	125.74	2.00	74.56	0.00	0.00
7.91	6.17	119.29	0.57	119.29	2.00	72.82	0.00	0.00
7.93	5.42	106.21	0.66	119.93	2.00	68.99	0.00	0.00
7.95	4.76	93.30	0.80	113.84	2.00	64.71	0.00	0.00
7.97	4.11	80.45	1.03	104.85	2.00	59.82	0.00	0.00
7.99	3.50	68.31	1.57	105.09	2.00	54.42	0.00	0.00
8.01	3.04	59.16	2.25	117.82	2.00	49.67	0.00	0.00
8.03	3.58	69.96	2.04	119.49	2.00	55.21	0.00	0.00
8.05	5.22	102.30	1.35	132.96	2.00	67.75	0.00	0.00
8.07	7.10	138.41	0.88	153.85	2.00	77.73	0.00	0.00
8.09	7.99	148.82	0.69	148.82	2.00	80.12	0.00	0.00
8.11	7.39	138.84	0.70	138.84	2.00	77.83	0.00	0.00
8.13	6.14	120.43	0.88	140.78	2.00	73.14	0.00	0.00
8.15	4.82	94.33	1.22	122.41	2.00	65.07	0.00	0.00
8.17	3.75	73.13	1.81	115.62	2.00	56.67	0.00	0.00
8.19	2.99	58.12	2.41	122.34	2.00	49.09	0.00	0.00
8.21	2.50	48.51	3.02	134.71	2.00	43.12	0.00	0.00
8.23	2.26	43.80	3.30	148.90	2.00	39.75	0.00	0.00
8.25	2.04	39.44	3.53	190.36	2.00	36.29	0.00	0.00
8.27	1.92	37.06	3.29	178.55	2.00	34.24	0.00	0.00
8.29	1.97	37.99	2.67	116.58	2.00	35.05	0.00	0.00
8.31	2.21	42.83	1.91	96.98	2.00	39.01	0.00	0.00
8.33	2.55	49.39	1.55	90.41	2.00	43.72	0.00	0.00
8.35	2.96	57.45	1.33	89.82	2.00	48.71	0.00	0.00
8.37	3.36	65.36	1.24	94.29	2.00	52.96	0.00	0.00
8.39	3.70	72.06	1.19	99.57	2.00	56.18	0.00	0.00
8.41	3.95	77.04	1.19	104.37	2.00	58.39	0.00	0.00
8.43	4.15	80.92	1.19	108.14	2.00	60.01	0.00	0.00
8.45	4.33	84.46	1.14	110.92	2.00	61.43	0.00	0.00
8.47	4.50	87.82	0.99	111.73	2.00	62.71	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
8.49	4.67	90.13	0.81	111.03	2.00	63.57	0.00	0.00
8.51	4.85	90.75	0.62	106.64	2.00	63.80	0.00	0.00
8.53	4.91	89.83	0.52	101.67	2.00	63.46	0.00	0.00
8.55	4.78	86.90	0.47	86.90	2.00	62.37	0.00	0.00
8.57	3.99	75.79	0.60	92.74	2.00	57.85	0.00	0.00
8.59	3.56	69.29	0.74	88.57	2.00	54.89	0.00	0.00
8.61	3.22	62.49	0.93	85.20	2.00	51.48	0.00	0.00
8.63	3.67	71.48	0.85	92.69	2.00	55.92	0.00	0.00
8.65	4.59	85.74	0.68	103.89	2.00	61.92	0.00	0.00
8.67	5.61	98.83	0.48	98.83	2.00	66.61	0.00	0.00
8.69	6.39	108.19	0.37	108.19	2.00	69.60	0.00	0.00
8.71	6.28	105.89	0.35	105.89	2.00	68.89	0.00	0.00
8.73	5.93	100.64	0.36	100.64	2.00	67.21	0.00	0.00
8.75	5.35	92.28	0.38	92.28	2.00	64.35	0.00	0.00
8.77	5.00	87.75	0.43	87.75	2.00	62.69	0.00	0.00
8.79	4.90	87.30	0.52	99.96	2.00	62.52	0.00	0.00
8.81	5.05	90.87	0.63	107.07	2.00	63.84	0.00	0.00
8.83	5.08	92.53	0.74	111.69	2.00	64.44	0.00	0.00
8.85	4.96	91.75	0.86	113.59	2.00	64.16	0.00	0.00
8.87	4.74	88.84	0.96	112.38	2.00	63.09	0.00	0.00
8.89	4.34	83.27	1.13	109.50	2.00	60.96	0.00	0.00
8.91	3.98	77.40	1.32	107.38	2.00	58.54	0.00	0.00
8.93	3.76	73.09	1.52	107.93	2.00	56.65	0.00	0.00
8.95	3.62	70.39	1.71	110.67	2.00	55.41	0.00	0.00
8.97	3.35	64.95	1.82	109.46	2.00	52.75	0.00	0.00
8.99	2.93	56.74	2.00	108.92	2.00	48.29	0.00	0.00
9.01	2.62	50.69	2.27	113.24	2.00	44.58	0.00	0.00
9.03	2.93	56.66	2.22	115.60	2.00	48.25	0.00	0.00
9.05	4.02	78.28	1.65	115.84	2.00	58.92	0.00	0.00
9.07	5.72	103.31	1.05	128.86	2.00	68.07	0.00	0.00
9.09	6.93	118.43	0.75	133.16	2.00	72.58	0.00	0.00
9.11	7.27	121.54	0.64	126.42	2.00	73.44	0.00	0.00
9.13	6.78	113.83	0.63	122.59	2.00	71.28	0.00	0.00
9.15	6.25	105.75	0.64	118.45	2.00	68.85	0.00	0.00
9.17	5.86	99.61	0.63	113.99	2.00	66.87	0.00	0.00
9.19	5.38	91.87	0.61	107.33	2.00	64.20	0.00	0.00
9.21	4.76	82.34	0.62	99.44	2.00	60.59	0.00	0.00
9.23	3.90	69.23	0.66	87.35	2.00	54.86	0.00	0.00
9.25	3.17	58.02	0.75	77.52	2.00	49.03	0.00	0.00
9.27	2.57	48.92	0.97	74.18	2.00	43.40	0.00	0.00
9.29	2.32	44.64	1.16	76.10	2.00	40.38	0.00	0.00
9.31	2.43	46.74	1.16	77.76	2.00	41.90	0.00	0.00
9.33	2.62	49.41	0.98	74.91	2.00	43.73	0.00	0.00
9.35	2.61	48.62	0.86	71.44	2.00	43.20	0.00	0.00
9.37	2.31	43.60	0.90	68.50	2.00	39.60	0.00	0.00
9.39	1.95	37.26	1.08	69.30	2.00	34.41	0.00	0.00
9.41	1.75	33.24	1.27	73.17	2.00	30.65	0.00	0.00
9.43	1.73	32.88	1.28	73.24	2.00	30.28	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
9.45	1.77	33.70	1.36	75.91	2.00	31.10	0.00	0.00
9.47	1.76	33.41	1.32	74.67	2.00	30.82	0.00	0.00
9.49	1.59	30.04	1.50	78.43	2.00	27.30	0.00	0.00
9.51	1.29	24.23	1.75	101.24	2.00	20.22	0.00	0.00
9.53	1.03	19.00	2.30	93.31	2.00	12.18	0.06	0.00
9.55	0.88	16.14	2.60	96.67	2.00	6.80	0.07	0.00
9.57	0.91	16.74	2.40	93.32	2.00	8.01	0.07	0.00
9.59	0.99	18.16	2.06	87.01	2.00	10.69	0.06	0.00
9.61	1.45	27.33	1.38	73.79	2.00	24.19	0.00	0.00
9.63	1.91	35.89	1.01	66.52	2.00	33.18	0.00	0.00
9.65	2.22	40.66	0.86	65.30	2.00	37.30	0.00	0.00
9.67	2.12	39.03	0.87	64.57	2.00	35.95	0.00	0.00
9.69	2.02	37.29	0.90	64.27	2.00	34.44	0.00	0.00
9.71	2.15	39.95	1.11	71.77	2.00	36.71	0.00	0.00
9.73	2.25	42.39	1.43	82.92	2.00	38.67	0.00	0.00
9.75	2.28	43.60	1.78	94.06	2.00	39.60	0.00	0.00
9.77	2.14	40.86	2.04	100.65	2.00	37.46	0.00	0.00
9.79	1.84	34.87	2.58	124.71	2.00	32.23	0.00	0.00
9.81	1.90	36.14	2.45	107.93	2.00	33.41	0.00	0.00
9.83	1.82	34.45	2.58	126.70	2.00	31.83	0.00	0.00
9.85	1.81	34.40	2.58	126.42	2.00	31.78	0.00	0.00
9.87	1.44	27.08	3.70	134.76	2.00	23.89	0.05	0.00
9.89	1.22	22.76	4.59	147.10	2.00	18.14	0.05	0.00
9.91	1.09	20.05	5.01	149.09	2.00	13.96	0.06	0.00
9.93	1.01	18.44	4.93	143.90	2.00	11.20	0.06	0.00
9.95	0.97	17.71	4.79	139.82	2.00	9.87	0.06	0.00
9.97	0.95	17.31	4.42	132.73	2.00	9.11	0.07	0.00
9.99	0.95	17.25	3.90	123.75	2.00	9.00	0.07	0.00
10.01	0.95	17.33	3.28	112.38	2.00	9.15	0.07	0.00
10.03	0.97	17.65	2.87	104.72	2.00	9.75	0.07	0.00
10.05	0.98	17.90	2.59	99.25	2.00	10.22	0.06	0.00
10.07	0.99	18.08	2.47	96.80	2.00	10.55	0.06	0.00
10.09	0.99	18.09	2.43	95.89	2.00	10.57	0.06	0.00
10.11	0.98	17.94	2.40	95.11	2.00	10.28	0.06	0.00
10.13	0.98	17.90	2.38	94.72	2.00	10.22	0.06	0.00
10.15	0.99	18.07	2.36	94.35	2.00	10.53	0.06	0.00
10.17	1.00	18.22	2.40	95.37	2.00	10.81	0.06	0.00
10.19	0.99	17.95	2.42	95.68	2.00	10.31	0.06	0.00
10.21	0.94	17.10	2.48	95.94	2.00	8.71	0.07	0.00
10.23	0.89	16.00	2.52	95.52	2.00	6.51	0.07	0.00
10.25	0.83	14.78	2.59	95.34	2.00	3.90	0.07	0.00
10.27	0.78	13.91	2.58	93.85	2.00	1.89	0.08	0.00
10.29	0.76	13.43	2.48	91.35	2.00	0.74	0.08	0.00
10.31	0.75	13.29	2.28	87.24	2.00	0.38	0.08	0.00
10.33	0.75	13.18	2.09	83.43	2.00	0.11	0.08	0.00
10.35	0.75	13.24	1.93	80.10	2.00	0.28	0.08	0.00
10.37	0.77	13.59	1.80	77.74	2.00	1.12	0.08	0.00
10.39	0.79	14.04	1.73	76.53	2.00	2.19	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
10.41	0.80	14.19	1.71	76.28	2.00	2.55	0.08	0.00
10.43	0.80	14.21	1.69	75.87	2.00	2.60	0.08	0.00
10.45	0.81	14.36	1.66	75.33	2.00	2.95	0.07	0.00
10.47	0.82	14.50	1.70	76.34	2.00	3.27	0.07	0.00
10.49	0.80	14.11	1.85	79.32	2.00	2.36	0.08	0.00
10.51	0.75	13.14	1.96	80.82	2.00	0.02	0.08	0.00
10.53	0.70	12.28	1.96	79.88	2.00	0.00	0.08	0.00
10.55	0.69	11.95	1.82	76.52	2.00	0.00	0.08	0.00
10.57	0.69	11.89	1.73	74.70	2.00	0.00	0.08	0.00
10.59	0.68	11.83	1.68	73.66	2.00	0.00	0.08	0.00
10.61	0.68	11.77	1.68	73.44	2.00	0.00	0.08	0.00
10.63	0.69	11.89	1.63	72.53	2.00	0.00	0.08	0.00
10.65	0.69	11.97	1.57	71.45	2.00	0.00	0.08	0.00
10.67	0.68	11.82	1.54	70.62	2.00	0.00	0.08	0.00
10.69	0.67	11.63	1.54	70.39	2.00	0.00	0.08	0.00
10.71	0.67	11.50	1.54	70.27	2.00	0.00	0.08	0.00
10.73	0.67	11.50	1.51	69.61	2.00	0.00	0.08	0.00
10.75	0.67	11.48	1.48	69.09	2.00	0.00	0.08	0.00
10.77	0.66	11.42	1.47	68.75	2.00	0.00	0.09	0.00
10.79	0.67	11.47	1.45	68.33	2.00	0.00	0.08	0.00
10.81	0.67	11.60	1.41	67.69	2.00	0.00	0.08	0.00
10.83	0.68	11.78	1.37	66.84	2.00	0.00	0.08	0.00
10.85	0.69	11.93	1.35	66.57	2.00	0.00	0.08	0.00
10.87	0.70	12.04	1.35	66.64	2.00	0.00	0.08	0.00
10.89	0.70	12.06	1.36	66.88	2.00	0.00	0.08	0.00
10.91	0.70	11.93	1.37	66.95	2.00	0.00	0.08	0.00
10.93	0.69	11.79	1.38	67.18	2.00	0.00	0.08	0.00
10.95	0.69	11.71	1.40	67.51	2.00	0.00	0.08	0.00
10.97	0.69	11.67	1.41	67.74	2.00	0.00	0.08	0.00
10.99	0.70	11.89	1.39	67.45	2.00	0.00	0.08	0.00
11.01	0.74	12.36	1.16	62.20	2.00	0.00	0.08	0.00
11.03	0.77	12.80	0.95	111.13	2.00	0.00	0.00	0.00
11.05	0.80	13.32	1.04	116.93	2.00	0.47	0.00	0.00
11.07	0.79	13.30	1.37	67.84	2.00	0.41	0.08	0.00
11.09	0.78	13.26	1.70	75.73	2.00	0.32	0.08	0.00
11.11	0.76	12.92	1.76	76.67	2.00	0.00	0.08	0.00
11.13	0.76	12.85	1.74	76.22	2.00	0.00	0.08	0.00
11.15	0.75	12.71	1.74	76.12	2.00	0.00	0.08	0.00
11.17	0.75	12.53	1.74	75.80	2.00	0.00	0.08	0.00
11.19	0.73	12.23	1.72	75.21	2.00	0.00	0.08	0.00
11.21	0.71	11.88	1.66	73.54	2.00	0.00	0.08	0.00
11.23	0.70	11.58	1.59	71.72	2.00	0.00	0.08	0.00
11.25	0.69	11.41	1.51	69.77	2.00	0.00	0.09	0.00
11.27	0.69	11.33	1.45	68.50	2.00	0.00	0.09	0.00
11.29	0.69	11.21	1.45	68.45	2.00	0.00	0.09	0.00
11.31	0.68	11.12	1.48	68.89	2.00	0.00	0.09	0.00
11.33	0.68	11.09	1.49	69.23	2.00	0.00	0.09	0.00
11.35	0.68	11.14	1.50	69.40	2.00	0.00	0.09	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
11.37	0.69	11.18	1.50	69.47	2.00	0.00	0.09	0.00
11.39	0.69	11.11	1.53	70.10	2.00	0.00	0.09	0.00
11.41	0.68	11.03	1.57	70.75	2.00	0.00	0.09	0.00
11.43	0.68	10.98	1.59	71.31	2.00	0.00	0.09	0.00
11.45	0.69	11.05	1.59	71.20	2.00	0.00	0.09	0.00
11.47	0.70	11.20	1.56	70.83	2.00	0.00	0.09	0.00
11.49	0.71	11.34	1.54	70.45	2.00	0.00	0.09	0.00
11.51	0.71	11.44	1.52	70.19	2.00	0.00	0.08	0.00
11.53	0.71	11.36	1.52	70.17	2.00	0.00	0.09	0.00
11.55	0.70	11.18	1.53	70.12	2.00	0.00	0.09	0.00
11.57	0.69	10.99	1.54	70.24	2.00	0.00	0.09	0.00
11.59	0.69	10.87	1.55	70.19	2.00	0.00	0.09	0.00
11.61	0.68	10.75	1.55	70.14	2.00	0.00	0.09	0.00
11.63	0.68	10.63	1.55	70.08	2.00	0.00	0.09	0.00
11.65	0.67	10.53	1.55	70.01	2.00	0.00	0.09	0.00
11.67	0.67	10.50	1.54	69.78	2.00	0.00	0.09	0.00
11.69	0.67	10.52	1.53	69.54	2.00	0.00	0.09	0.00
11.71	0.68	10.61	1.50	68.98	2.00	0.00	0.09	0.00
11.73	0.69	10.67	1.48	68.67	2.00	0.00	0.09	0.00
11.75	0.69	10.73	1.46	68.27	2.00	0.00	0.09	0.00
11.77	0.69	10.71	1.47	68.35	2.00	0.00	0.09	0.00
11.79	0.69	10.67	1.46	68.25	2.00	0.00	0.09	0.00
11.81	0.69	10.55	1.46	68.19	2.00	0.00	0.09	0.00
11.83	0.68	10.43	1.47	68.14	2.00	0.00	0.09	0.00
11.85	0.68	10.35	1.49	68.46	2.00	0.00	0.09	0.00
11.87	0.67	10.32	1.50	68.67	2.00	0.00	0.09	0.00
11.89	0.68	10.32	1.50	68.84	2.00	0.00	0.09	0.00
11.91	0.67	10.27	1.51	68.86	2.00	0.00	0.09	0.00
11.93	0.68	10.34	1.51	68.99	2.00	0.00	0.09	0.00
11.95	0.70	10.63	1.47	68.34	2.00	0.00	0.09	0.00
11.97	0.74	11.21	1.37	66.71	2.00	0.00	0.09	0.00
11.99	0.78	11.75	1.29	65.15	2.00	0.00	0.08	0.00
12.01	0.80	12.15	1.25	64.53	2.00	0.00	0.08	0.00
12.03	0.82	12.37	1.27	65.11	2.00	0.00	0.08	0.00
12.05	0.84	12.67	1.31	66.43	2.00	0.00	0.08	0.00
12.07	0.85	12.88	1.35	67.49	2.00	0.00	0.08	0.00
12.09	0.86	13.03	1.43	69.37	2.00	0.00	0.08	0.00
12.11	0.87	13.07	1.48	70.58	2.00	0.00	0.08	0.00
12.13	0.87	13.13	1.51	71.53	2.00	0.00	0.08	0.00
12.15	0.87	13.16	1.51	71.40	2.00	0.05	0.08	0.00
12.17	0.93	13.97	1.38	68.90	2.00	2.04	0.08	0.00
12.19	1.01	15.08	1.24	124.45	2.00	4.57	0.00	0.00
12.21	1.10	16.39	1.15	98.45	2.00	7.30	0.00	0.00
12.23	1.18	17.40	0.97	70.64	2.00	9.29	0.00	0.00
12.25	1.25	18.48	0.99	65.42	2.00	11.27	0.00	0.00
12.27	1.31	19.36	1.03	64.35	1.90	12.81	0.00	0.00
12.29	1.32	19.65	1.26	84.77	2.00	13.29	0.00	0.00
12.31	1.32	19.62	1.38	98.01	2.00	13.24	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
12.33	1.32	19.66	1.46	106.06	2.00	13.31	0.00	0.00
12.35	1.32	19.68	1.52	112.52	2.00	13.35	0.00	0.00
12.37	1.31	19.54	1.60	123.50	2.00	13.11	0.00	0.00
12.39	1.29	19.25	1.72	140.85	2.00	12.62	0.00	0.00
12.41	1.28	19.04	1.80	154.04	2.00	12.26	0.00	0.00
12.43	1.27	18.92	1.80	155.47	2.00	12.05	0.00	0.00
12.45	1.28	18.92	1.72	145.39	2.00	12.05	0.00	0.00
12.47	1.30	19.17	1.69	138.53	2.00	12.49	0.00	0.00
12.49	1.35	19.87	1.62	122.82	2.00	13.67	0.00	0.00
12.51	1.38	20.22	1.60	117.42	2.00	14.25	0.00	0.00
12.53	1.45	21.18	1.48	97.10	2.00	15.78	0.00	0.00
12.55	1.66	24.08	1.29	70.47	2.00	20.01	0.00	0.00
12.57	2.08	29.75	1.10	66.94	2.00	26.99	0.00	0.00
12.59	2.35	33.51	1.09	68.20	2.00	30.92	0.00	0.00
12.61	2.37	33.86	1.20	71.85	2.00	31.26	0.00	0.00
12.63	2.09	30.15	1.46	77.97	2.00	27.43	0.00	0.00
12.65	1.86	26.96	1.69	85.18	2.00	23.73	0.00	0.00
12.67	1.68	24.53	1.94	122.89	2.00	20.62	0.00	0.00
12.69	1.59	23.21	2.18	160.29	2.00	18.79	0.00	0.00
12.71	1.49	21.93	2.43	207.30	2.00	16.93	0.00	0.00
12.73	1.41	20.68	2.64	104.46	2.00	14.98	0.06	0.00
12.75	1.34	19.61	2.71	105.00	2.00	13.22	0.06	0.00
12.77	1.28	18.74	2.72	104.26	2.00	11.74	0.06	0.00
12.79	1.25	18.14	2.63	101.58	2.00	10.65	0.06	0.00
12.81	1.22	17.61	2.47	97.51	2.00	9.67	0.07	0.00
12.83	1.21	17.30	2.22	91.54	2.00	9.09	0.07	0.00
12.85	1.19	16.90	2.04	87.05	2.00	8.32	0.07	0.00
12.87	1.18	16.68	1.92	84.04	2.00	7.90	0.07	0.00
12.89	1.16	16.40	1.88	82.81	2.00	7.32	0.07	0.00
12.91	1.16	16.39	1.86	82.23	2.00	7.30	0.07	0.00
12.93	1.18	16.57	1.82	81.50	2.00	7.66	0.07	0.00
12.95	1.21	16.96	1.76	80.30	2.00	8.44	0.07	0.00
12.97	1.23	17.23	1.70	163.53	2.00	8.95	0.00	0.00
12.99	1.25	17.46	1.72	163.00	2.00	9.40	0.00	0.00
13.01	1.25	17.46	1.77	170.20	2.00	9.39	0.00	0.00
13.03	1.25	17.39	1.85	82.80	2.00	9.26	0.07	0.00
13.05	1.22	17.02	1.91	84.11	2.00	8.55	0.07	0.00
13.07	1.19	16.48	2.00	85.76	2.00	7.50	0.07	0.00
13.09	1.14	15.84	2.05	86.34	2.00	6.18	0.07	0.00
13.11	1.12	15.43	2.06	86.24	2.00	5.31	0.07	0.00
13.13	1.11	15.33	1.99	84.51	2.00	5.11	0.07	0.00
13.15	1.13	15.49	1.92	83.04	2.00	5.45	0.07	0.00
13.17	1.15	15.68	1.86	81.86	2.00	5.85	0.07	0.00
13.19	1.15	15.71	1.85	81.51	2.00	5.91	0.07	0.00
13.21	1.15	15.68	1.83	81.12	2.00	5.84	0.07	0.00
13.23	1.15	15.58	1.81	80.66	2.00	5.63	0.07	0.00
13.25	1.15	15.57	1.80	80.38	2.00	5.60	0.07	0.00
13.27	1.13	15.33	1.78	79.61	2.00	5.10	0.07	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
13.29	1.11	14.98	1.76	78.89	2.00	4.35	0.07	0.00
13.31	1.10	14.75	1.72	77.87	2.00	3.82	0.07	0.00
13.33	1.11	14.89	1.66	76.54	2.00	4.15	0.07	0.00
13.35	1.15	15.34	1.58	74.80	2.00	5.11	0.07	0.00
13.37	1.18	15.78	1.51	154.61	2.00	6.05	0.00	0.00
13.39	1.20	15.90	1.46	146.63	2.00	6.30	0.00	0.00
13.41	1.18	15.66	1.47	151.26	2.00	5.81	0.00	0.00
13.43	1.16	15.33	1.51	73.17	2.00	5.11	0.07	0.00
13.45	1.17	15.47	1.50	73.06	2.00	5.41	0.07	0.00
13.47	1.21	15.98	1.45	143.95	2.00	6.48	0.00	0.00
13.49	1.26	16.59	1.41	130.77	2.00	7.70	0.00	0.00
13.51	1.28	16.90	1.46	133.92	2.00	8.31	0.00	0.00
13.53	1.27	16.80	1.58	152.44	2.00	8.13	0.00	0.00
13.55	1.22	16.16	1.82	81.25	2.00	6.84	0.07	0.00
13.57	1.17	15.40	1.99	84.67	2.00	5.25	0.07	0.00
13.59	1.12	14.66	2.11	86.52	2.00	3.63	0.07	0.00
13.61	1.08	14.05	2.03	84.30	2.00	2.22	0.08	0.00
13.63	1.04	13.49	2.00	83.07	2.00	0.89	0.08	0.00
13.65	1.01	13.04	1.96	81.67	2.00	0.00	0.08	0.00
13.67	1.00	12.92	1.91	80.43	2.00	0.00	0.08	0.00
13.69	1.00	12.77	1.84	78.79	2.00	0.00	0.08	0.00
13.71	0.99	12.68	1.73	76.41	2.00	0.00	0.08	0.00
13.73	0.96	12.22	1.73	75.82	2.00	0.00	0.08	0.00
13.75	0.91	11.51	1.77	76.10	2.00	0.00	0.08	0.00
13.77	0.87	10.87	1.88	77.50	2.00	0.00	0.09	0.00
13.79	0.86	10.77	1.91	78.08	2.00	0.00	0.09	0.00
13.81	0.90	11.23	1.82	76.75	2.00	0.00	0.09	0.00
13.83	0.94	11.78	1.71	75.15	2.00	0.00	0.08	0.00
13.85	0.98	12.26	1.63	73.86	2.00	0.00	0.08	0.00
13.87	1.00	12.51	1.65	74.56	2.00	0.00	0.08	0.00
13.89	1.00	12.51	1.72	75.95	2.00	0.00	0.08	0.00
13.91	0.99	12.38	1.78	77.18	2.00	0.00	0.08	0.00
13.93	0.99	12.30	1.76	76.73	2.00	0.00	0.08	0.00
13.95	0.98	12.25	1.71	75.63	2.00	0.00	0.08	0.00
13.97	0.97	12.07	1.67	74.59	2.00	0.00	0.08	0.00
13.99	0.96	11.89	1.66	74.01	2.00	0.00	0.08	0.00
14.01	0.97	11.98	1.56	72.06	2.00	0.00	0.08	0.00
14.03	1.00	12.28	1.42	68.96	2.00	0.00	0.08	0.00
14.05	1.02	12.55	1.31	66.45	2.00	0.00	0.08	0.00
14.07	1.05	12.86	1.20	63.87	2.00	0.00	0.08	0.00
14.09	1.08	13.25	1.14	62.56	2.00	0.28	0.08	0.00
14.11	1.13	13.80	1.09	120.23	2.00	1.63	0.00	0.00
14.13	1.14	13.97	1.11	121.57	2.00	2.04	0.00	0.00
14.15	1.12	13.64	1.14	129.71	2.00	1.25	0.00	0.00
14.17	1.07	12.98	1.18	63.56	2.00	0.00	0.08	0.00
14.19	1.03	12.39	1.23	64.46	2.00	0.00	0.08	0.00
14.21	1.02	12.34	1.24	64.75	2.00	0.00	0.08	0.00
14.23	1.08	13.08	1.18	63.66	2.00	0.00	0.08	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
14.25	1.18	14.34	1.06	109.42	2.00	2.90	0.00	0.00
14.27	1.27	15.39	0.97	87.41	2.00	5.23	0.00	0.00
14.29	1.32	16.00	0.92	76.09	2.00	6.52	0.00	0.00
14.31	1.38	16.77	0.90	68.41	2.00	8.06	0.00	0.00
14.33	1.47	17.78	0.89	60.94	2.00	10.00	0.00	0.00
14.35	1.52	18.50	0.93	60.59	1.86	11.31	0.00	0.00
14.37	1.51	18.39	1.03	71.11	2.00	11.11	0.00	0.00
14.39	1.46	17.82	1.17	89.93	2.00	10.06	0.00	0.00
14.41	1.44	17.54	1.22	97.34	2.00	9.54	0.00	0.00
14.43	1.50	18.13	1.14	84.23	2.00	10.64	0.00	0.00
14.45	1.56	18.85	1.04	68.71	2.00	11.92	0.00	0.00
14.47	1.57	18.91	1.02	67.12	2.00	12.02	0.00	0.00
14.49	1.49	17.93	1.13	84.98	2.00	10.27	0.00	0.00
14.51	1.39	16.67	1.22	105.95	2.00	7.88	0.00	0.00
14.53	1.33	15.95	1.20	110.14	2.00	6.40	0.00	0.00
14.55	1.34	15.95	1.01	86.72	2.00	6.40	0.00	0.00
14.57	1.39	16.45	0.85	65.77	2.00	7.43	0.00	0.00
14.59	1.43	16.86	0.79	56.57	2.00	8.24	0.00	0.00
14.61	1.44	16.98	0.79	55.96	2.00	8.48	0.00	0.00
14.63	1.41	16.60	0.88	67.38	2.00	7.73	0.00	0.00
14.65	1.37	16.11	0.97	80.70	2.00	6.74	0.00	0.00
14.67	1.33	15.64	1.03	91.48	2.00	5.77	0.00	0.00
14.69	1.26	14.74	1.02	100.24	2.00	3.82	0.00	0.00
14.71	1.19	13.81	1.01	109.21	2.00	1.65	0.00	0.00
14.73	1.11	12.74	1.02	125.75	2.00	0.00	0.00	0.00
14.75	1.09	12.53	1.00	124.95	2.00	0.00	0.00	0.00
14.77	1.12	12.79	0.96	115.23	2.00	0.00	0.00	0.00
14.79	1.19	13.69	0.89	93.71	2.00	1.36	0.00	0.00
14.81	1.26	14.50	0.84	79.67	2.00	3.27	0.00	0.00
14.83	1.29	14.90	0.82	73.92	2.00	4.15	0.00	0.00
14.85	1.27	14.65	0.85	79.32	2.00	3.60	0.00	0.00
14.87	1.26	14.42	0.87	84.25	2.00	3.08	0.00	0.00
14.89	1.29	14.84	0.86	78.69	2.00	4.03	0.00	0.00
14.91	1.36	15.60	0.85	71.00	2.00	5.67	0.00	0.00
14.93	1.43	16.44	0.81	61.22	2.00	7.41	0.00	0.00
14.95	1.49	17.21	0.77	53.28	2.00	8.93	0.00	0.00
14.97	1.58	18.25	0.76	52.82	2.00	10.86	0.00	0.00
14.99	1.65	19.04	0.80	54.42	2.00	12.26	0.00	0.00
15.01	1.62	18.73	0.91	57.70	2.00	11.71	0.00	0.00
15.03	1.54	17.74	0.98	70.73	2.00	9.91	0.00	0.00
15.05	1.46	16.80	1.02	81.10	2.00	8.12	0.00	0.00
15.07	1.44	16.48	0.98	79.60	2.00	7.50	0.00	0.00
15.09	1.42	16.20	0.96	79.77	2.00	6.92	0.00	0.00
15.11	1.36	15.42	0.98	88.11	2.00	5.30	0.00	0.00
15.13	1.29	14.56	1.05	106.20	2.00	3.40	0.00	0.00
15.15	1.23	13.85	1.12	124.40	2.00	1.76	0.00	0.00
15.17	1.21	13.57	1.14	131.80	2.00	1.09	0.00	0.00
15.19	1.21	13.56	1.08	123.25	2.00	1.05	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
15.21	1.22	13.66	1.04	116.08	2.00	1.28	0.00	0.00
15.23	1.20	13.36	1.08	125.82	2.00	0.55	0.00	0.00
15.25	1.14	12.60	1.19	63.65	2.00	0.00	0.08	0.00
15.27	1.05	11.58	1.31	65.95	2.00	0.00	0.08	0.00
15.29	1.01	10.96	1.30	65.27	2.00	0.00	0.09	0.00
15.31	0.99	10.73	1.23	63.61	2.00	0.00	0.09	0.00
15.33	1.00	10.81	1.11	60.64	2.00	0.00	0.09	0.00
15.35	1.08	11.80	0.96	57.22	2.00	0.00	0.08	0.00
15.37	1.17	12.81	0.86	99.87	2.00	0.00	0.00	0.00
15.39	1.25	13.70	0.87	91.49	2.00	1.40	0.00	0.00
15.41	1.24	13.67	0.96	103.99	2.00	1.33	0.00	0.00
15.43	1.26	13.86	1.00	107.92	2.00	1.77	0.00	0.00
15.45	1.29	14.18	0.95	96.70	2.00	2.53	0.00	0.00
15.47	1.30	14.26	0.93	93.59	2.00	2.71	0.00	0.00
15.49	1.24	13.56	1.03	115.24	2.00	1.05	0.00	0.00
15.51	1.14	12.34	1.22	64.32	2.00	0.00	0.08	0.00
15.53	1.05	11.25	1.34	66.67	2.00	0.00	0.09	0.00
15.55	0.97	10.28	1.40	67.00	2.00	0.00	0.09	0.00
15.57	0.93	9.71	1.37	65.89	2.00	0.00	0.09	0.00
15.59	1.02	10.86	1.20	62.87	2.00	0.00	0.09	0.00
15.61	1.23	13.24	0.93	105.07	2.00	0.27	0.00	0.00
15.63	1.52	16.72	0.83	62.16	2.00	7.97	0.00	0.00
15.65	1.72	19.08	0.99	63.24	1.96	12.33	0.00	0.00
15.67	1.97	22.09	1.23	69.32	2.00	17.16	0.00	0.00
15.69	2.11	23.83	1.57	91.31	2.00	19.67	0.00	0.00
15.71	2.21	25.04	2.01	128.30	2.00	21.30	0.00	0.00
15.73	2.14	24.41	2.85	240.52	2.00	20.46	0.00	0.00
15.75	2.09	23.96	3.81	135.18	2.00	19.84	0.05	0.00
15.77	2.08	23.85	4.76	154.96	2.00	19.69	0.05	0.00
15.79	1.92	22.04	5.71	168.81	2.00	17.09	0.06	0.00
15.81	1.79	20.36	6.31	174.56	2.00	14.47	0.06	0.00
15.83	1.94	22.13	5.65	168.12	2.00	17.22	0.05	0.00
15.85	2.82	32.24	3.53	253.02	2.00	29.64	0.00	0.00
15.87	4.37	49.73	2.12	109.29	2.00	43.94	0.00	0.00
15.89	7.16	80.76	1.47	114.16	2.00	59.95	0.00	0.00
15.91	10.25	114.90	1.36	146.63	2.00	71.58	0.00	0.00
15.93	12.73	142.46	1.48	177.88	2.00	78.68	0.00	0.00
15.95	14.25	159.30	1.57	197.56	2.00	82.37	0.00	0.00
15.97	15.20	169.73	1.68	210.80	2.00	84.46	0.00	0.00
15.99	16.24	180.96	1.70	223.16	2.00	86.58	0.00	0.00
16.01	17.06	189.82	1.74	233.22	2.00	88.15	0.00	0.00
16.03	17.79	197.48	1.73	240.88	2.00	89.46	0.00	0.00
16.05	18.61	206.38	1.80	251.94	2.00	90.91	0.00	0.00
16.07	20.09	222.53	1.86	270.39	2.00	93.40	0.00	0.00
16.09	21.19	234.64	2.04	288.01	2.00	95.15	0.00	0.00
16.11	23.27	257.18	2.09	313.09	2.00	98.18	0.00	0.00
16.13	24.33	268.66	2.17	327.53	2.00	99.62	0.00	0.00
16.15	26.91	295.98	2.09	352.18	2.00	100.00	0.00	0.00

:: Estimation of post-earthquake lateral Displacements :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	R_f (%)	$Q_{tn,cs}$	FS	D_r	$Gamma_{max}$ (%)	Lat. disp. (cm)
16.17	28.21	309.43	2.04	362.66	2.00	100.00	0.00	0.00

Total estimated displacement: 0.01

Abbreviations

q_t: Total cone resistance
Q_{tn}: Adjusted cone resistance to an effective overburden stress of 1 atm
R_f: Friction ration
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
FS: Calculated factor of safety against liquefaction
D_r: Calculated relative density
$Gamma_{max}$: Calculated maximum cyclic shear strain
Lat. disp.: Lateral displacement

:: Strength loss calculation (Robertson (2009) ::

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
6.57	0.19	3.43	22.59	77.38	3.53	0.08	0.92
6.59	0.19	3.42	25.32	86.46	3.60	0.08	0.90
6.61	0.30	5.69	16.45	93.67	3.35	0.16	1.46
6.63	0.55	10.64	9.14	97.22	3.02	0.16	2.67
6.65	0.89	17.23	5.14	88.55	2.74	0.73	0.73
6.67	1.09	21.15	4.02	85.03	2.63	0.81	0.81
6.69	1.12	21.83	3.96	86.45	2.62	0.81	0.81
6.71	1.04	20.21	4.60	92.92	2.69	0.88	0.88
6.73	0.98	18.93	5.27	99.79	2.75	0.75	0.75
6.75	1.02	19.82	5.14	101.88	2.74	0.75	0.75
6.77	1.08	21.03	4.88	102.70	2.72	0.75	0.75
6.79	1.13	22.04	4.56	100.53	2.69	0.89	0.89
6.81	1.08	20.91	4.75	99.39	2.70	0.75	0.75
6.83	1.03	20.00	4.93	98.53	2.72	0.75	0.75
6.85	1.08	21.02	4.63	97.33	2.69	0.89	0.89
6.87	1.19	23.18	4.15	96.23	2.64	0.85	0.85
6.89	1.30	25.24	3.87	97.59	2.61	0.82	0.82
6.91	1.32	25.66	4.00	102.57	2.63	0.85	0.85
6.93	1.29	25.17	4.34	109.26	2.66	0.89	0.89
6.95	1.24	24.17	4.70	113.57	2.70	0.93	0.93
6.97	1.20	23.28	4.98	116.01	2.73	0.78	0.78
6.99	1.18	22.97	5.27	120.97	2.75	0.78	0.78
7.01	1.24	24.09	5.10	122.85	2.74	0.79	0.79
7.03	1.35	26.30	4.62	121.46	2.69	0.94	0.94
7.05	1.76	34.24	3.17	108.58	2.53	0.77	0.77
7.07	2.45	47.85	2.01	95.97	2.32	0.74	0.74
7.09	3.35	65.59	1.50	98.55	2.15	0.75	0.75
7.11	4.15	81.47	1.35	109.71	2.04	0.77	0.77
7.13	4.63	90.87	1.31	118.60	2.00	0.78	0.78
7.15	4.75	93.30	1.30	121.16	1.99	0.78	0.78
7.17	4.84	95.03	1.30	123.84	2.00	0.79	0.79
7.19	5.19	101.91	1.28	130.85	1.97	0.80	0.80
7.21	5.63	110.72	1.25	138.66	1.92	0.81	0.81
7.23	5.77	113.39	1.23	139.47	1.89	0.81	0.81
7.25	5.11	100.35	1.26	126.35	1.93	0.79	0.79
7.27	4.14	81.27	1.35	109.53	2.04	0.77	0.77
7.29	3.14	61.46	1.65	101.33	2.21	0.75	0.75
7.31	2.57	50.17	2.13	107.03	2.35	0.76	0.76
7.33	2.22	43.23	2.67	115.42	2.45	0.78	0.78
7.35	2.74	53.60	1.94	103.76	2.30	0.76	0.76
7.37	4.01	78.67	1.33	104.88	2.03	0.76	0.76
7.39	5.29	103.95	1.18	122.75	1.83	0.79	0.79
7.41	6.09	119.64	1.10	131.95	1.76	0.80	0.80
7.43	6.55	128.82	1.13	145.52	1.78	0.82	0.82
7.45	7.26	142.70	1.12	159.72	1.77	0.84	0.84
7.47	7.81	153.52	1.11	169.97	1.76	0.85	0.85
7.49	8.16	160.58	1.09	174.59	1.75	0.86	0.86
7.51	8.42	165.60	1.05	174.36	1.73	0.86	0.86

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
7.53	8.70	171.09	1.00	171.09	1.69	0.85	0.85
7.55	8.87	174.49	1.00	174.49	1.63	0.86	0.86
7.57	8.92	171.29	1.00	171.29	1.59	0.85	0.85
7.59	8.78	165.73	1.00	165.73	1.56	0.85	0.85
7.61	8.56	161.53	1.00	161.53	1.56	0.84	0.84
7.63	8.36	158.13	1.00	158.13	1.57	0.84	0.84
7.65	8.17	154.79	1.00	154.79	1.58	0.83	0.83
7.67	7.82	149.44	1.00	149.44	1.61	0.83	0.83
7.69	7.15	139.03	1.00	139.03	1.65	0.81	0.81
7.71	6.30	123.67	1.03	127.58	1.72	0.79	0.79
7.73	5.53	108.51	1.15	124.97	1.80	0.79	0.79
7.75	5.19	101.68	1.19	120.77	1.83	0.78	0.78
7.77	5.22	102.31	1.19	121.50	1.83	0.79	0.79
7.79	5.72	112.29	1.11	124.08	1.76	0.79	0.79
7.81	6.27	122.36	1.00	122.36	1.69	0.79	0.79
7.83	6.80	128.48	1.00	128.48	1.63	0.80	0.80
7.85	6.95	129.84	1.00	129.84	1.61	0.80	0.80
7.87	6.99	130.11	1.00	130.11	1.61	0.80	0.80
7.89	6.70	125.74	1.00	125.74	1.63	0.79	0.79
7.91	6.17	119.29	1.00	119.29	1.70	0.78	0.78
7.93	5.42	106.21	1.13	119.93	1.78	0.78	0.78
7.95	4.76	93.30	1.22	113.84	1.88	0.77	0.77
7.97	4.11	80.45	1.30	104.85	2.00	0.76	0.76
7.99	3.50	68.31	1.54	105.09	2.17	0.76	0.76
8.01	3.04	59.16	1.99	117.82	2.32	0.78	0.78
8.03	3.58	69.96	1.71	119.49	2.23	0.78	0.78
8.05	5.22	102.30	1.30	132.96	1.99	0.80	0.80
8.07	7.10	138.41	1.11	153.85	1.77	0.83	0.83
8.09	7.99	148.82	1.00	148.82	1.68	0.83	0.83
8.11	7.39	138.84	1.00	138.84	1.70	0.81	0.81
8.13	6.14	120.43	1.17	140.78	1.82	0.81	0.81
8.15	4.82	94.33	1.30	122.41	1.99	0.79	0.79
8.17	3.75	73.13	1.58	115.62	2.19	0.78	0.78
8.19	2.99	58.12	2.10	122.34	2.34	0.79	0.79
8.21	2.50	48.51	2.78	134.71	2.47	0.81	0.81
8.23	2.26	43.80	3.18	139.48	2.53	0.83	0.83
8.25	2.04	39.44	3.60	142.12	2.58	0.88	0.88
8.27	1.92	37.06	3.60	133.46	2.58	0.86	0.86
8.29	1.97	37.99	3.07	116.75	2.51	0.78	0.78
8.31	2.21	42.83	2.26	96.98	2.38	0.74	0.74
8.33	2.55	49.39	1.83	90.41	2.27	0.73	0.73
8.35	2.96	57.45	1.56	89.82	2.18	0.73	0.73
8.37	3.36	65.36	1.44	94.29	2.12	0.74	0.74
8.39	3.70	72.06	1.38	99.57	2.07	0.75	0.75
8.41	3.95	77.04	1.35	104.37	2.05	0.76	0.76
8.43	4.15	80.92	1.34	108.14	2.03	0.76	0.76
8.45	4.33	84.46	1.31	110.92	2.01	0.77	0.77
8.47	4.50	87.82	1.27	111.73	1.95	0.77	0.77

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
8.49	4.67	90.13	1.23	111.03	1.89	0.77	0.77
8.51	4.85	90.75	1.18	106.64	1.82	0.76	0.76
8.53	4.91	89.83	1.13	101.67	1.78	0.75	0.75
8.55	4.78	86.90	1.00	86.90	1.77	0.72	0.72
8.57	3.99	75.79	1.22	92.74	1.88	0.73	0.73
8.59	3.56	69.29	1.28	88.57	1.96	0.73	0.73
8.61	3.22	62.49	1.36	85.20	2.06	0.72	0.72
8.63	3.67	71.48	1.30	92.69	1.99	0.73	0.73
8.65	4.59	85.74	1.21	103.89	1.86	0.76	0.76
8.67	5.61	98.83	1.00	98.83	1.73	0.75	0.75
8.69	6.39	108.19	1.00	108.19	1.64	0.76	0.76
8.71	6.28	105.89	1.00	105.89	1.64	0.76	0.76
8.73	5.93	100.64	1.00	100.64	1.66	0.75	0.75
8.75	5.35	92.28	1.00	92.28	1.71	0.73	0.73
8.77	5.00	87.75	1.00	87.75	1.75	0.72	0.72
8.79	4.90	87.30	1.15	99.96	1.79	0.75	0.75
8.81	5.05	90.87	1.18	107.07	1.82	0.76	0.76
8.83	5.08	92.53	1.21	111.69	1.86	0.77	0.77
8.85	4.96	91.75	1.24	113.59	1.90	0.77	0.77
8.87	4.74	88.84	1.26	112.38	1.94	0.77	0.77
8.89	4.34	83.27	1.31	109.50	2.01	0.77	0.77
8.91	3.98	77.40	1.39	107.38	2.08	0.76	0.76
8.93	3.76	73.09	1.48	107.93	2.14	0.76	0.76
8.95	3.62	70.39	1.57	110.67	2.18	0.77	0.77
8.97	3.35	64.95	1.69	109.46	2.23	0.77	0.77
8.99	2.93	56.74	1.92	108.92	2.30	0.76	0.76
9.01	2.62	50.69	2.23	113.24	2.37	0.77	0.77
9.03	2.93	56.66	2.04	115.60	2.33	0.78	0.78
9.05	4.02	78.28	1.48	115.84	2.14	0.78	0.78
9.07	5.72	103.31	1.25	128.86	1.92	0.80	0.80
9.09	6.93	118.43	1.12	133.16	1.78	0.80	0.80
9.11	7.27	121.54	1.04	126.42	1.73	0.79	0.79
9.13	6.78	113.83	1.08	122.59	1.75	0.79	0.79
9.15	6.25	105.75	1.12	118.45	1.77	0.78	0.78
9.17	5.86	99.61	1.14	113.99	1.79	0.77	0.77
9.19	5.38	91.87	1.17	107.33	1.81	0.76	0.76
9.21	4.76	82.34	1.21	99.44	1.86	0.75	0.75
9.23	3.90	69.23	1.26	87.35	1.94	0.72	0.72
9.25	3.17	58.02	1.34	77.52	2.03	0.48	0.70
9.27	2.57	48.92	1.52	74.18	2.16	0.36	0.69
9.29	2.32	44.64	1.70	76.10	2.23	0.42	0.70
9.31	2.43	46.74	1.66	77.76	2.22	0.48	0.70
9.33	2.62	49.41	1.52	74.91	2.16	0.38	0.70
9.35	2.61	48.62	1.47	71.44	2.13	0.29	0.69
9.37	2.31	43.60	1.57	68.50	2.18	0.23	0.68
9.39	1.95	37.26	1.86	69.30	2.28	0.24	0.68
9.41	1.75	33.24	2.20	73.17	2.37	0.33	0.69
9.43	1.73	32.88	2.23	73.24	2.37	0.33	0.69

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
9.45	1.77	33.70	2.25	75.91	2.38	0.42	0.70
9.47	1.76	33.41	2.23	74.67	2.37	0.37	0.69
9.49	1.59	30.04	2.61	78.43	2.44	0.51	0.70
9.51	1.29	24.23	3.42	82.97	2.56	0.75	0.75
9.53	1.03	19.00	4.91	93.31	2.72	0.74	0.74
9.55	0.88	16.14	5.99	96.67	2.81	0.74	0.74
9.57	0.91	16.74	5.57	93.32	2.78	0.74	0.74
9.59	0.99	18.16	4.79	87.01	2.71	0.72	0.72
9.61	1.45	27.33	2.70	73.79	2.46	0.35	0.69
9.63	1.91	35.89	1.85	66.52	2.28	0.19	0.67
9.65	2.22	40.66	1.61	65.30	2.20	0.17	0.67
9.67	2.12	39.03	1.65	64.57	2.22	0.16	0.67
9.69	2.02	37.29	1.72	64.27	2.24	0.16	0.67
9.71	2.15	39.95	1.80	71.77	2.26	0.29	0.69
9.73	2.25	42.39	1.96	82.92	2.31	0.71	0.71
9.75	2.28	43.60	2.16	94.06	2.36	0.74	0.74
9.77	2.14	40.86	2.46	100.65	2.42	0.75	0.75
9.79	1.84	34.87	3.24	113.04	2.54	0.79	0.79
9.81	1.90	36.14	3.04	110.04	2.51	0.76	0.76
9.83	1.82	34.45	3.27	112.78	2.54	0.79	0.79
9.85	1.81	34.40	3.27	112.58	2.54	0.79	0.79
9.87	1.44	27.08	4.98	134.76	2.73	0.81	0.81
9.89	1.22	22.76	6.46	147.10	2.85	0.82	0.82
9.91	1.09	20.05	7.44	149.09	2.92	0.83	0.83
9.93	1.01	18.44	7.80	143.90	2.94	0.82	0.82
9.95	0.97	17.71	7.89	139.82	2.95	0.81	0.81
9.97	0.95	17.31	7.67	132.73	2.93	0.80	0.80
9.99	0.95	17.25	7.17	123.75	2.90	0.79	0.79
10.01	0.95	17.33	6.48	112.38	2.85	0.77	0.77
10.03	0.97	17.65	5.93	104.72	2.81	0.76	0.76
10.05	0.98	17.90	5.54	99.25	2.77	0.75	0.75
10.07	0.99	18.08	5.35	96.80	2.76	0.74	0.74
10.09	0.99	18.09	5.30	95.89	2.75	0.74	0.74
10.11	0.98	17.94	5.30	95.11	2.75	0.74	0.74
10.13	0.98	17.90	5.29	94.72	2.75	0.74	0.74
10.15	0.99	18.07	5.22	94.35	2.75	0.74	0.74
10.17	1.00	18.22	5.23	95.37	2.75	0.74	0.74
10.19	0.99	17.95	5.33	95.68	2.76	0.74	0.74
10.21	0.94	17.10	5.61	95.94	2.78	0.74	0.74
10.23	0.89	16.00	5.97	95.52	2.81	0.74	0.74
10.25	0.83	14.78	6.45	95.34	2.85	0.74	0.74
10.27	0.78	13.91	6.75	93.85	2.87	0.74	0.74
10.29	0.76	13.43	6.80	91.35	2.87	0.73	0.73
10.31	0.75	13.29	6.57	87.24	2.85	0.72	0.72
10.33	0.75	13.18	6.33	83.43	2.84	0.71	0.71
10.35	0.75	13.24	6.05	80.10	2.82	0.59	0.71
10.37	0.77	13.59	5.72	77.74	2.79	0.48	0.70
10.39	0.79	14.04	5.45	76.53	2.77	0.44	0.70

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
10.41	0.80	14.19	5.38	76.28	2.76	0.43	0.70
10.43	0.80	14.21	5.34	75.87	2.76	0.41	0.70
10.45	0.81	14.36	5.25	75.33	2.75	0.40	0.70
10.47	0.82	14.50	5.26	76.34	2.75	0.43	0.70
10.49	0.80	14.11	5.62	79.32	2.78	0.55	0.71
10.51	0.75	13.14	6.15	80.82	2.82	0.63	0.71
10.53	0.70	12.28	6.50	79.88	2.85	0.58	0.71
10.55	0.69	11.95	6.40	76.52	2.84	0.44	0.70
10.57	0.69	11.89	6.29	74.70	2.83	0.38	0.69
10.59	0.68	11.83	6.23	73.66	2.83	0.34	0.69
10.61	0.68	11.77	6.24	73.44	2.83	0.34	0.69
10.63	0.69	11.89	6.10	72.53	2.82	0.31	0.69
10.65	0.69	11.97	5.97	71.45	2.81	0.29	0.69
10.67	0.68	11.82	5.97	70.62	2.81	0.27	0.68
10.69	0.67	11.63	6.05	70.39	2.82	0.26	0.68
10.71	0.67	11.50	6.11	70.27	2.82	0.26	0.68
10.73	0.67	11.50	6.05	69.61	2.82	0.25	0.68
10.75	0.67	11.48	6.02	69.09	2.81	0.24	0.68
10.77	0.66	11.42	6.02	68.75	2.81	0.23	0.68
10.79	0.67	11.47	5.96	68.33	2.81	0.22	0.68
10.81	0.67	11.60	5.84	67.69	2.80	0.21	0.68
10.83	0.68	11.78	5.68	66.84	2.79	0.20	0.68
10.85	0.69	11.93	5.58	66.57	2.78	0.19	0.67
10.87	0.70	12.04	5.53	66.64	2.77	0.19	0.67
10.89	0.70	12.06	5.55	66.88	2.77	0.20	0.68
10.91	0.70	11.93	5.61	66.95	2.78	0.20	0.68
10.93	0.69	11.79	5.70	67.18	2.79	0.20	0.68
10.95	0.69	11.71	5.77	67.51	2.79	0.21	0.68
10.97	0.69	11.67	5.80	67.74	2.80	0.21	0.68
10.99	0.70	11.89	5.67	67.45	2.79	0.21	0.68
11.01	0.74	12.36	5.03	62.20	2.73	0.13	0.66
11.03	0.77	12.80	4.44	56.91	2.67	0.77	0.77
11.05	0.80	13.32	4.46	59.45	2.68	0.78	0.78
11.07	0.79	13.30	5.10	67.84	2.74	0.21	0.68
11.09	0.78	13.26	5.71	75.73	2.79	0.41	0.70
11.11	0.76	12.92	5.93	76.67	2.81	0.44	0.70
11.13	0.76	12.85	5.93	76.22	2.81	0.43	0.70
11.15	0.75	12.71	5.99	76.12	2.81	0.42	0.70
11.17	0.75	12.53	6.05	75.80	2.82	0.41	0.70
11.19	0.73	12.23	6.15	75.21	2.82	0.39	0.70
11.21	0.71	11.88	6.19	73.54	2.83	0.34	0.69
11.23	0.70	11.58	6.19	71.72	2.83	0.29	0.69
11.25	0.69	11.41	6.12	69.77	2.82	0.25	0.68
11.27	0.69	11.33	6.05	68.50	2.82	0.23	0.68
11.29	0.69	11.21	6.11	68.45	2.82	0.22	0.68
11.31	0.68	11.12	6.19	68.89	2.83	0.23	0.68
11.33	0.68	11.09	6.24	69.23	2.83	0.24	0.68
11.35	0.68	11.14	6.23	69.40	2.83	0.24	0.68

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
11.37	0.69	11.18	6.22	69.47	2.83	0.24	0.68
11.39	0.69	11.11	6.31	70.10	2.84	0.26	0.68
11.41	0.68	11.03	6.42	70.75	2.84	0.27	0.69
11.43	0.68	10.98	6.49	71.31	2.85	0.28	0.69
11.45	0.69	11.05	6.44	71.20	2.85	0.28	0.69
11.47	0.70	11.20	6.32	70.83	2.84	0.27	0.69
11.49	0.71	11.34	6.21	70.45	2.83	0.26	0.68
11.51	0.71	11.44	6.14	70.19	2.82	0.26	0.68
11.53	0.71	11.36	6.18	70.17	2.83	0.26	0.68
11.55	0.70	11.18	6.27	70.12	2.83	0.26	0.68
11.57	0.69	10.99	6.39	70.24	2.84	0.26	0.68
11.59	0.69	10.87	6.46	70.19	2.85	0.26	0.68
11.61	0.68	10.75	6.52	70.14	2.85	0.26	0.68
11.63	0.68	10.63	6.59	70.08	2.86	0.26	0.68
11.65	0.67	10.53	6.65	70.01	2.86	0.25	0.68
11.67	0.67	10.50	6.65	69.78	2.86	0.25	0.68
11.69	0.67	10.52	6.61	69.54	2.86	0.25	0.68
11.71	0.68	10.61	6.50	68.98	2.85	0.23	0.68
11.73	0.69	10.67	6.44	68.67	2.85	0.23	0.68
11.75	0.69	10.73	6.36	68.27	2.84	0.22	0.68
11.77	0.69	10.71	6.39	68.35	2.84	0.22	0.68
11.79	0.69	10.67	6.40	68.25	2.84	0.22	0.68
11.81	0.69	10.55	6.46	68.19	2.85	0.22	0.68
11.83	0.68	10.43	6.53	68.14	2.85	0.22	0.68
11.85	0.68	10.35	6.61	68.46	2.86	0.22	0.68
11.87	0.67	10.32	6.65	68.67	2.86	0.23	0.68
11.89	0.68	10.32	6.67	68.84	2.86	0.23	0.68
11.91	0.67	10.27	6.70	68.86	2.86	0.23	0.68
11.93	0.68	10.34	6.67	68.99	2.86	0.23	0.68
11.95	0.70	10.63	6.43	68.34	2.84	0.22	0.68
11.97	0.74	11.21	5.95	66.71	2.81	0.19	0.67
11.99	0.78	11.75	5.54	65.15	2.77	0.17	0.67
12.01	0.80	12.15	5.31	64.53	2.75	0.16	0.67
12.03	0.82	12.37	5.26	65.11	2.75	0.17	0.67
12.05	0.84	12.67	5.24	66.43	2.75	0.19	0.67
12.07	0.85	12.88	5.24	67.49	2.75	0.21	0.68
12.09	0.86	13.03	5.32	69.37	2.76	0.24	0.68
12.11	0.87	13.07	5.40	70.58	2.76	0.27	0.68
12.13	0.87	13.13	5.45	71.53	2.77	0.29	0.69
12.15	0.87	13.16	5.43	71.40	2.76	0.29	0.69
12.17	0.93	13.97	4.93	68.90	2.72	0.23	0.68
12.19	1.01	15.08	4.36	65.83	2.67	0.79	0.79
12.21	1.10	16.39	3.90	63.84	2.62	0.75	0.75
12.23	1.18	17.40	3.39	58.98	2.56	0.27	0.68
12.25	1.25	18.48	3.23	59.69	2.54	0.18	0.67
12.27	1.31	19.36	3.16	61.18	2.53	0.16	0.67
12.29	1.32	19.65	3.46	68.04	2.57	0.72	0.72
12.31	1.32	19.62	3.65	71.56	2.59	0.74	0.74

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
12.33	1.32	19.66	3.75	73.70	2.60	0.76	0.76
12.35	1.32	19.68	3.83	75.33	2.61	0.77	0.77
12.37	1.31	19.54	3.97	77.51	2.62	0.79	0.79
12.39	1.29	19.25	4.18	80.47	2.65	0.81	0.81
12.41	1.28	19.04	4.33	82.53	2.66	0.83	0.83
12.43	1.27	18.92	4.36	82.45	2.67	0.83	0.83
12.45	1.28	18.92	4.25	80.50	2.66	0.82	0.82
12.47	1.30	19.17	4.16	79.80	2.65	0.81	0.81
12.49	1.35	19.87	3.94	78.20	2.62	0.79	0.79
12.51	1.38	20.22	3.85	77.83	2.61	0.78	0.78
12.53	1.45	21.18	3.54	74.95	2.57	0.74	0.74
12.55	1.66	24.08	2.93	70.47	2.49	0.26	0.68
12.57	2.08	29.75	2.25	66.94	2.38	0.20	0.68
12.59	2.35	33.51	2.03	68.20	2.33	0.22	0.68
12.61	2.37	33.86	2.12	71.85	2.35	0.30	0.69
12.63	2.09	30.15	2.59	77.97	2.44	0.49	0.70
12.65	1.86	26.96	3.10	83.69	2.52	0.72	0.72
12.67	1.68	24.53	3.65	89.57	2.59	0.79	0.79
12.69	1.59	23.21	4.09	95.04	2.64	0.84	0.84
12.71	1.49	21.93	4.58	100.51	2.69	0.89	0.89
12.73	1.41	20.68	5.05	104.46	2.73	0.76	0.76
12.75	1.34	19.61	5.36	105.00	2.76	0.76	0.76
12.77	1.28	18.74	5.56	104.26	2.78	0.76	0.76
12.79	1.25	18.14	5.60	101.58	2.78	0.75	0.75
12.81	1.22	17.61	5.54	97.51	2.77	0.74	0.74
12.83	1.21	17.30	5.29	91.54	2.75	0.73	0.73
12.85	1.19	16.90	5.15	87.05	2.74	0.72	0.72
12.87	1.18	16.68	5.04	84.04	2.73	0.72	0.72
12.89	1.16	16.40	5.05	82.81	2.73	0.71	0.71
12.91	1.16	16.39	5.02	82.23	2.73	0.70	0.71
12.93	1.18	16.57	4.92	81.50	2.72	0.66	0.71
12.95	1.21	16.96	4.73	80.30	2.70	0.60	0.71
12.97	1.23	17.23	4.59	79.06	2.69	0.84	0.84
12.99	1.25	17.46	4.56	79.66	2.69	0.84	0.84
13.01	1.25	17.46	4.63	80.90	2.69	0.85	0.85
13.03	1.25	17.39	4.76	82.80	2.71	0.71	0.71
13.05	1.22	17.02	4.94	84.11	2.72	0.72	0.72
13.07	1.19	16.48	5.20	85.76	2.75	0.72	0.72
13.09	1.14	15.84	5.45	86.34	2.77	0.72	0.72
13.11	1.12	15.43	5.59	86.24	2.78	0.72	0.72
13.13	1.11	15.33	5.51	84.51	2.77	0.72	0.72
13.15	1.13	15.49	5.36	83.04	2.76	0.71	0.71
13.17	1.15	15.68	5.22	81.86	2.75	0.68	0.71
13.19	1.15	15.71	5.19	81.51	2.74	0.66	0.71
13.21	1.15	15.68	5.17	81.12	2.74	0.64	0.71
13.23	1.15	15.58	5.18	80.66	2.74	0.62	0.71
13.25	1.15	15.57	5.16	80.38	2.74	0.60	0.71
13.27	1.13	15.33	5.19	79.61	2.74	0.57	0.71

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
13.29	1.11	14.98	5.26	78.89	2.75	0.53	0.70
13.31	1.10	14.75	5.28	77.87	2.75	0.49	0.70
13.33	1.11	14.89	5.14	76.54	2.74	0.44	0.70
13.35	1.15	15.34	4.88	74.80	2.72	0.38	0.70
13.37	1.18	15.78	4.64	73.24	2.69	0.83	0.83
13.39	1.20	15.90	4.54	72.21	2.68	0.82	0.82
13.41	1.18	15.66	4.62	72.34	2.69	0.83	0.83
13.43	1.16	15.33	4.77	73.17	2.71	0.33	0.69
13.45	1.17	15.47	4.72	73.06	2.70	0.33	0.69
13.47	1.21	15.98	4.50	71.99	2.68	0.82	0.82
13.49	1.26	16.59	4.29	71.22	2.66	0.80	0.80
13.51	1.28	16.90	4.30	72.69	2.66	0.80	0.80
13.53	1.27	16.80	4.52	75.87	2.68	0.83	0.83
13.55	1.22	16.16	5.03	81.25	2.73	0.65	0.71
13.57	1.17	15.40	5.50	84.67	2.77	0.72	0.72
13.59	1.12	14.66	5.90	86.52	2.80	0.72	0.72
13.61	1.08	14.05	6.00	84.30	2.81	0.72	0.72
13.63	1.04	13.49	6.16	83.07	2.82	0.71	0.71
13.65	1.01	13.04	6.27	81.67	2.83	0.67	0.71
13.67	1.00	12.92	6.22	80.43	2.83	0.61	0.71
13.69	1.00	12.77	6.17	78.79	2.82	0.53	0.70
13.71	0.99	12.68	6.03	76.41	2.81	0.43	0.70
13.73	0.96	12.22	6.20	75.82	2.83	0.41	0.70
13.75	0.91	11.51	6.61	76.10	2.86	0.42	0.70
13.77	0.87	10.87	7.13	77.50	2.89	0.47	0.70
13.79	0.86	10.77	7.25	78.08	2.90	0.50	0.70
13.81	0.90	11.23	6.83	76.75	2.87	0.45	0.70
13.83	0.94	11.78	6.38	75.15	2.84	0.39	0.70
13.85	0.98	12.26	6.02	73.86	2.81	0.35	0.69
13.87	1.00	12.51	5.96	74.56	2.81	0.37	0.69
13.89	1.00	12.51	6.07	75.95	2.82	0.42	0.70
13.91	0.99	12.38	6.23	77.18	2.83	0.46	0.70
13.93	0.99	12.30	6.24	76.73	2.83	0.44	0.70
13.95	0.98	12.25	6.18	75.63	2.83	0.41	0.70
13.97	0.97	12.07	6.18	74.59	2.83	0.37	0.69
13.99	0.96	11.89	6.22	74.01	2.83	0.35	0.69
14.01	0.97	11.98	6.02	72.06	2.81	0.30	0.69
14.03	1.00	12.28	5.62	68.96	2.78	0.23	0.68
14.05	1.02	12.55	5.29	66.45	2.75	0.19	0.67
14.07	1.05	12.86	4.97	63.87	2.72	0.15	0.67
14.09	1.08	13.25	4.72	62.56	2.70	0.14	0.66
14.11	1.13	13.80	4.45	61.42	2.68	0.78	0.78
14.13	1.14	13.97	4.45	62.15	2.67	0.79	0.79
14.15	1.12	13.64	4.59	62.65	2.69	0.80	0.80
14.17	1.07	12.98	4.90	63.56	2.72	0.15	0.67
14.19	1.03	12.39	5.20	64.46	2.75	0.16	0.67
14.21	1.02	12.34	5.25	64.75	2.75	0.17	0.67
14.23	1.08	13.08	4.87	63.66	2.72	0.15	0.67

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
14.25	1.18	14.34	4.24	60.85	2.65	0.77	0.77
14.27	1.27	15.39	3.82	58.77	2.61	0.72	0.72
14.29	1.32	16.00	3.58	57.36	2.58	0.42	0.70
14.31	1.38	16.77	3.40	56.93	2.56	0.22	0.68
14.33	1.47	17.78	3.19	56.79	2.53	0.12	0.66
14.35	1.52	18.50	3.14	58.16	2.52	0.12	0.66
14.37	1.51	18.39	3.33	61.27	2.55	0.28	0.69
14.39	1.46	17.82	3.66	65.23	2.59	0.73	0.73
14.41	1.44	17.54	3.79	66.42	2.60	0.74	0.74
14.43	1.50	18.13	3.55	64.45	2.58	0.72	0.72
14.45	1.56	18.85	3.26	61.52	2.54	0.23	0.68
14.47	1.57	18.91	3.23	61.13	2.54	0.20	0.68
14.49	1.49	17.93	3.58	64.19	2.58	0.72	0.72
14.51	1.39	16.67	3.97	66.27	2.63	0.76	0.76
14.53	1.33	15.95	4.10	65.30	2.64	0.77	0.77
14.55	1.34	15.95	3.76	59.95	2.60	0.72	0.72
14.57	1.39	16.45	3.37	55.45	2.55	0.18	0.67
14.59	1.43	16.86	3.17	53.45	2.53	0.09	0.65
14.61	1.44	16.98	3.15	53.50	2.52	0.08	0.64
14.63	1.41	16.60	3.39	56.26	2.56	0.21	0.68
14.65	1.37	16.11	3.65	58.82	2.59	0.62	0.71
14.67	1.33	15.64	3.86	60.36	2.61	0.73	0.73
14.69	1.26	14.74	4.07	60.04	2.64	0.75	0.75
14.71	1.19	13.81	4.30	59.35	2.66	0.76	0.76
14.73	1.11	12.74	4.65	59.30	2.69	0.79	0.79
14.75	1.09	12.53	4.67	58.52	2.70	0.79	0.79
14.77	1.12	12.79	4.50	57.63	2.68	0.77	0.77
14.79	1.19	13.69	4.08	55.87	2.64	0.74	0.74
14.81	1.26	14.50	3.77	54.72	2.60	0.57	0.71
14.83	1.29	14.90	3.64	54.21	2.59	0.35	0.69
14.85	1.27	14.65	3.75	54.99	2.60	0.55	0.71
14.87	1.26	14.42	3.86	55.61	2.61	0.72	0.72
14.89	1.29	14.84	3.73	55.29	2.60	0.52	0.70
14.91	1.36	15.60	3.53	55.05	2.57	0.28	0.69
14.93	1.43	16.44	3.29	54.05	2.54	0.12	0.66
14.95	1.49	17.21	3.08	53.06	2.51	0.07	0.64
14.97	1.58	18.25	2.89	52.82	2.49	0.06	0.63
14.99	1.65	19.04	2.86	54.42	2.48	0.07	0.64
15.01	1.62	18.73	3.08	57.64	2.51	0.09	0.65
15.03	1.54	17.74	3.37	59.74	2.55	0.27	0.69
15.05	1.46	16.80	3.60	60.53	2.58	0.64	0.71
15.07	1.44	16.48	3.60	59.41	2.58	0.56	0.71
15.09	1.42	16.20	3.63	58.79	2.59	0.57	0.71
15.11	1.36	15.42	3.83	59.01	2.61	0.72	0.72
15.13	1.29	14.56	4.18	60.80	2.65	0.76	0.76
15.15	1.23	13.85	4.50	62.33	2.68	0.79	0.79
15.17	1.21	13.57	4.63	62.81	2.69	0.80	0.80
15.19	1.21	13.56	4.52	61.28	2.68	0.79	0.79

:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
15.21	1.22	13.66	4.41	60.24	2.67	0.78	0.78
15.23	1.20	13.36	4.58	61.14	2.69	0.79	0.79
15.25	1.14	12.60	5.05	63.65	2.73	0.15	0.67
15.27	1.05	11.58	5.69	65.95	2.79	0.18	0.67
15.29	1.01	10.96	5.96	65.27	2.81	0.17	0.67
15.31	0.99	10.73	5.93	63.61	2.81	0.15	0.67
15.33	1.00	10.81	5.61	60.64	2.78	0.12	0.66
15.35	1.08	11.80	4.85	57.22	2.71	0.09	0.65
15.37	1.17	12.81	4.28	54.77	2.66	0.75	0.75
15.39	1.25	13.70	4.05	55.44	2.63	0.73	0.73
15.41	1.24	13.67	4.24	57.96	2.65	0.76	0.76
15.43	1.26	13.86	4.27	59.24	2.66	0.76	0.76
15.45	1.29	14.18	4.08	57.80	2.64	0.74	0.74
15.47	1.30	14.26	4.02	57.34	2.63	0.74	0.74
15.49	1.24	13.56	4.41	59.81	2.67	0.78	0.78
15.51	1.14	12.34	5.21	64.32	2.75	0.16	0.67
15.53	1.05	11.25	5.92	66.67	2.81	0.19	0.67
15.55	0.97	10.28	6.52	67.00	2.85	0.20	0.68
15.57	0.93	9.71	6.79	65.89	2.87	0.18	0.67
15.59	1.02	10.86	5.79	62.87	2.80	0.14	0.66
15.61	1.23	13.24	4.30	56.99	2.66	0.76	0.76
15.63	1.52	16.72	3.29	54.95	2.54	0.13	0.66
15.65	1.72	19.08	3.16	60.23	2.53	0.15	0.67
15.67	1.97	22.09	3.10	68.42	2.52	0.24	0.68
15.69	2.11	23.83	3.32	79.15	2.55	0.73	0.73
15.71	2.21	25.04	3.68	92.18	2.59	0.80	0.80
15.73	2.14	24.41	4.65	113.55	2.69	0.93	0.93
15.75	2.09	23.96	5.64	135.18	2.78	0.81	0.81
15.77	2.08	23.85	6.50	154.96	2.85	0.83	0.83
15.79	1.92	22.04	7.66	168.81	2.93	0.85	0.85
15.81	1.79	20.36	8.57	174.56	2.99	0.86	0.86
15.83	1.94	22.13	7.60	168.12	2.93	0.85	0.85
15.85	2.82	32.24	4.29	138.22	2.66	0.94	0.94
15.87	4.37	49.73	2.20	109.29	2.36	0.76	0.76
15.89	7.16	80.76	1.41	114.16	2.10	0.77	0.77
15.91	10.25	114.90	1.28	146.63	1.96	0.82	0.82
15.93	12.73	142.46	1.25	177.88	1.92	0.86	0.86
15.95	14.25	159.30	1.24	197.56	1.90	0.88	0.88
15.97	15.20	169.73	1.24	210.80	1.91	0.90	0.90
15.99	16.24	180.96	1.23	223.16	1.89	0.91	0.91
16.01	17.06	189.82	1.23	233.22	1.89	0.92	0.92
16.03	17.79	197.48	1.22	240.88	1.88	0.93	0.93
16.05	18.61	206.38	1.22	251.94	1.88	0.94	0.94
16.07	20.09	222.53	1.22	270.39	1.87	0.95	0.95
16.09	21.19	234.64	1.23	288.01	1.89	0.97	0.97
16.11	23.27	257.18	1.22	313.09	1.87	0.99	0.99
16.13	24.33	268.66	1.22	327.53	1.87	1.00	1.00
16.15	26.91	295.98	1.19	352.18	1.84	1.02	1.02

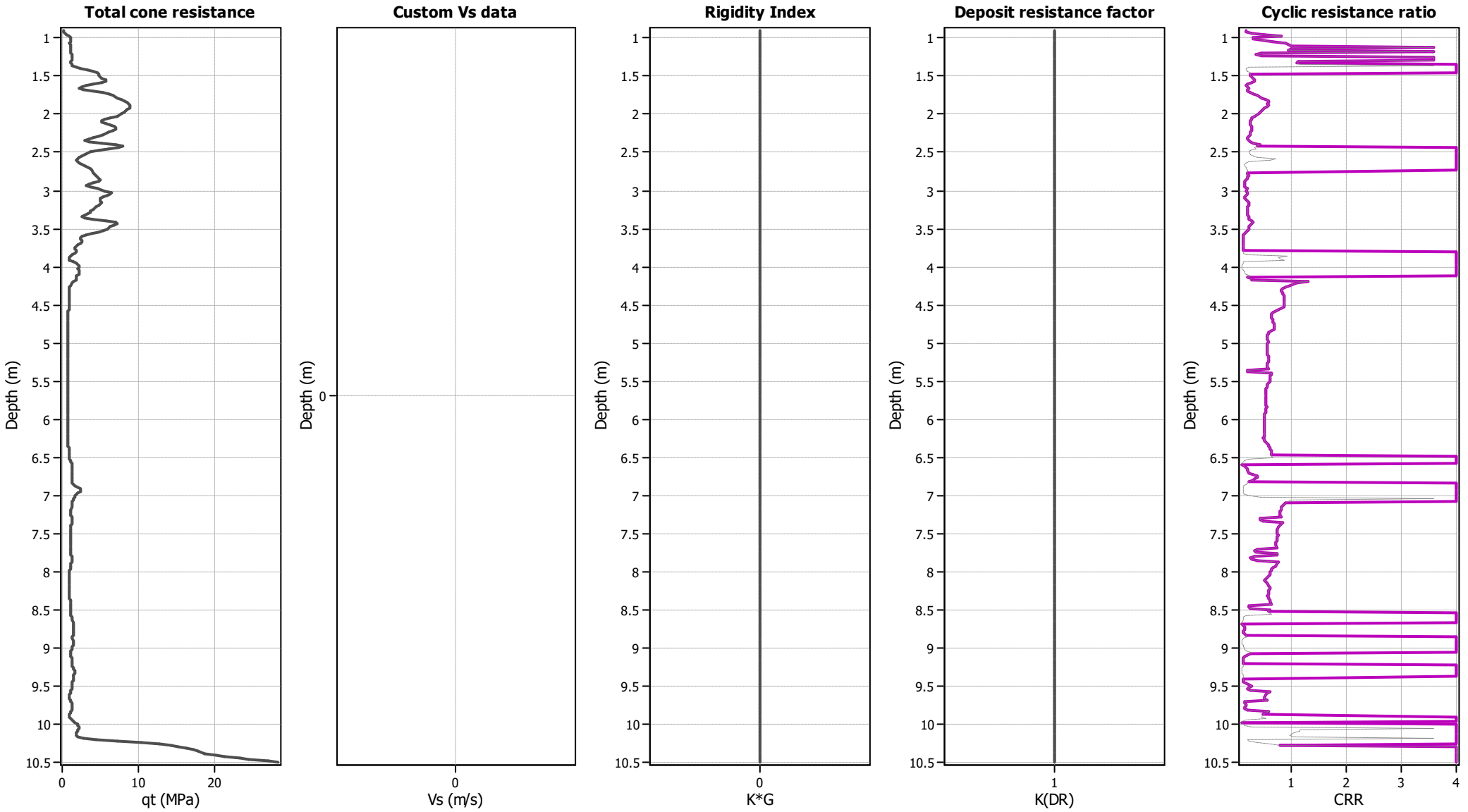
:: Strength loss calculation (Robertson (2009) :: (continued)

Depth (m)	q_t (MPa)	Q_{tn}	K_c	$Q_{tn,cs}$	I_c	$S_{u(liq)}/\sigma'_v$	$S_{u(peak)}/\sigma'_v$
16.17	28.21	309.43	1.17	362.66	1.82	1.02	1.02

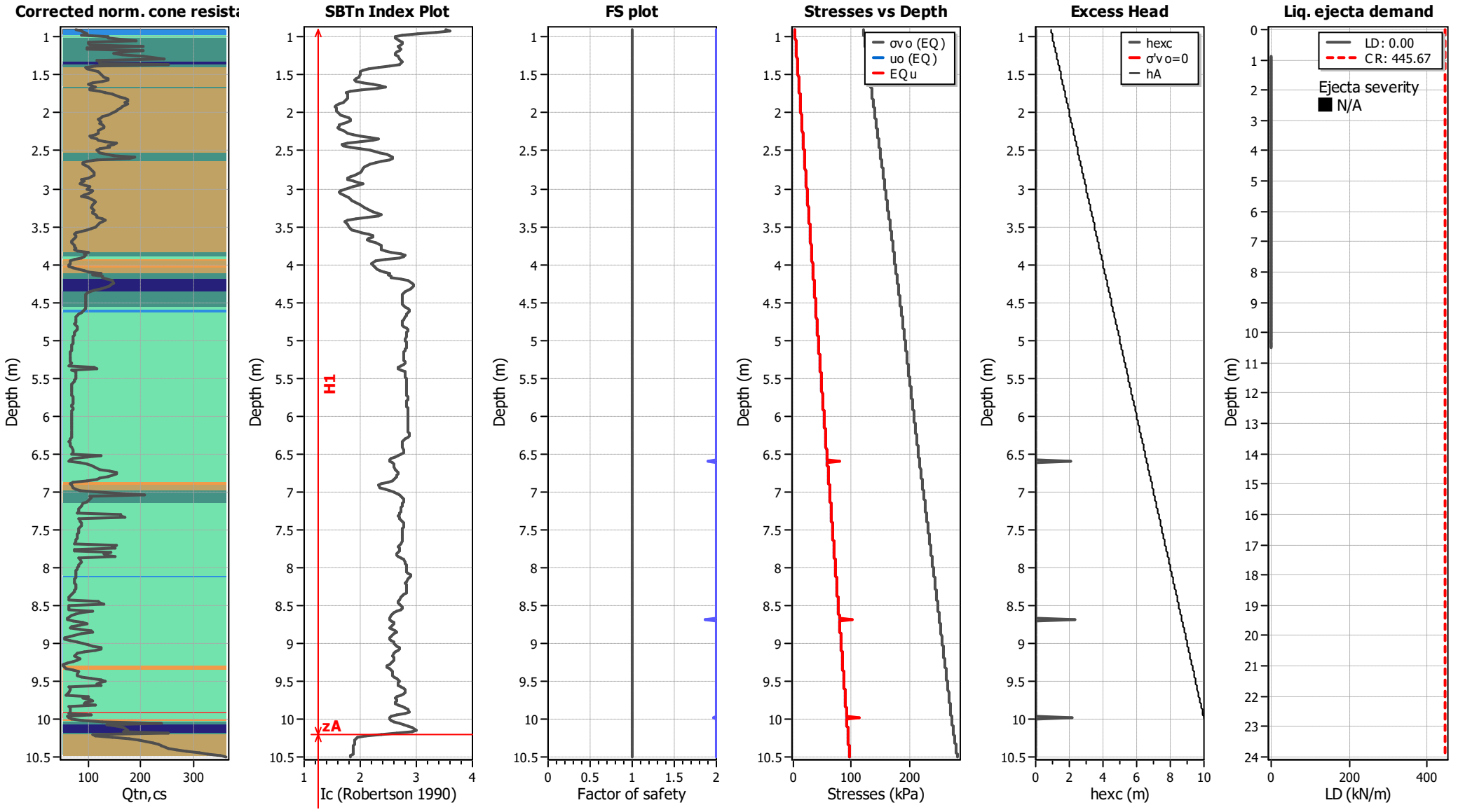
Abbreviations

q_t: Total cone resistance
K_c: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
I_c: Soil behavior type index
$S_{u(liq)}/\sigma'_v$: Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$: Calculated peak undrained strength ratio

Aging Calculation Estimation

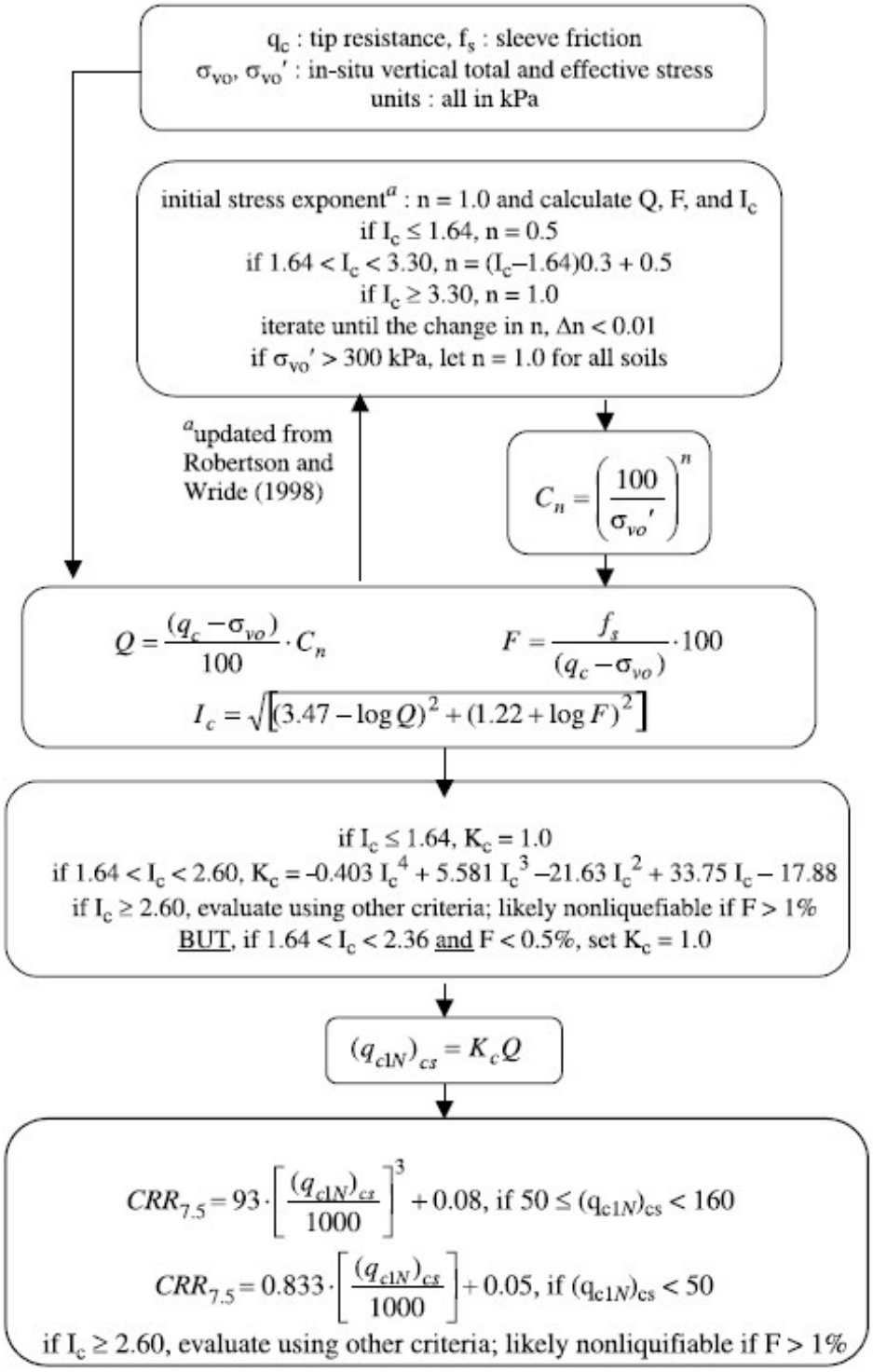


Ejecta Severity Estimation



Procedure for the evaluation of soil liquefaction resistance, NCEER (1998)

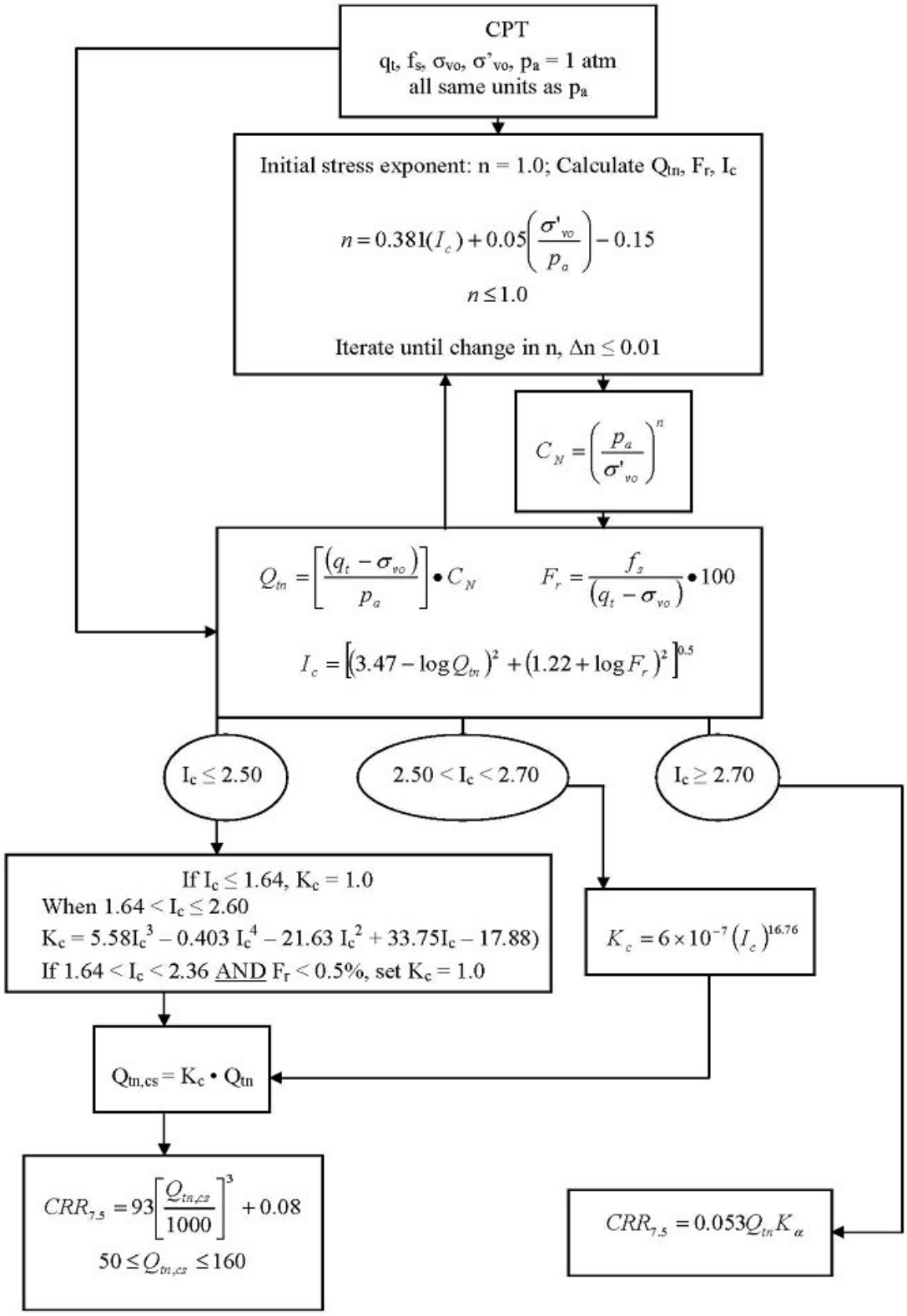
Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. The procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:



[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

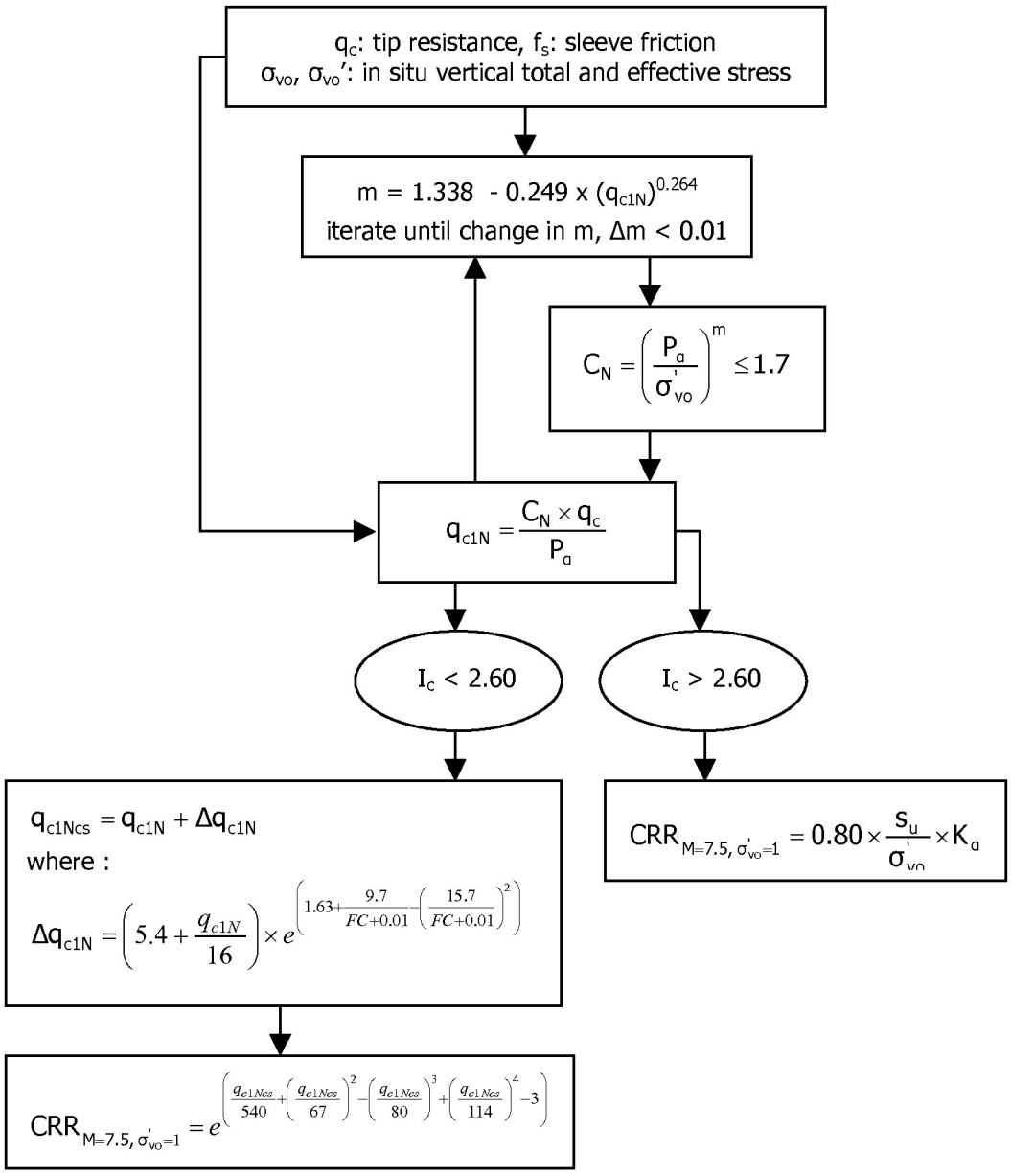
Procedure for the evaluation of soil liquefaction resistance (all soils), Robertson (2010)

Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. This procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:

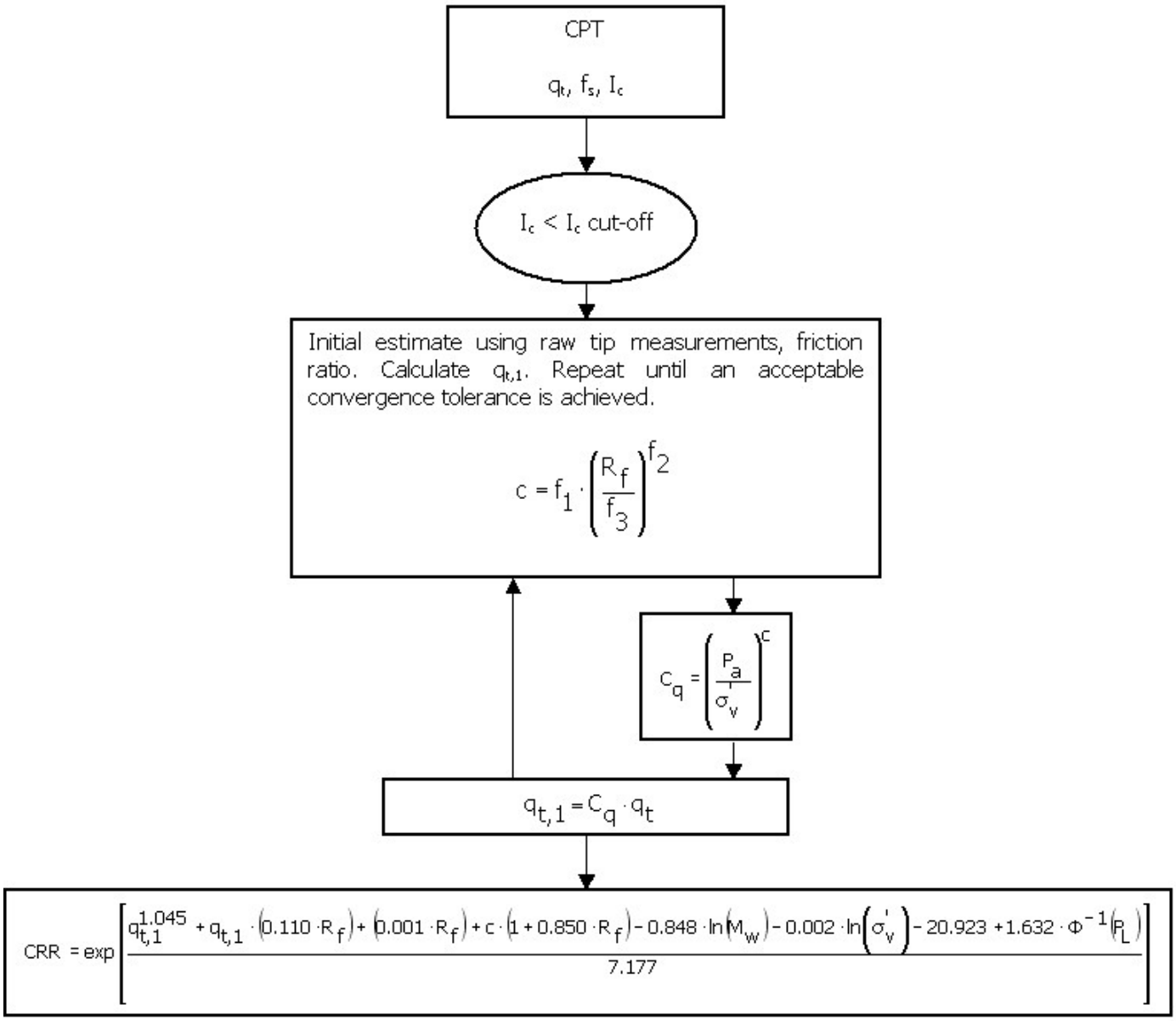


[1] P.K. Robertson, 2009. "Performance based earthquake design using the CPT", Keynote Lecture, International Conference on Performance-based Design in Earthquake Geotechnical Engineering – from case history to practice, IS-Tokyo, June 2009

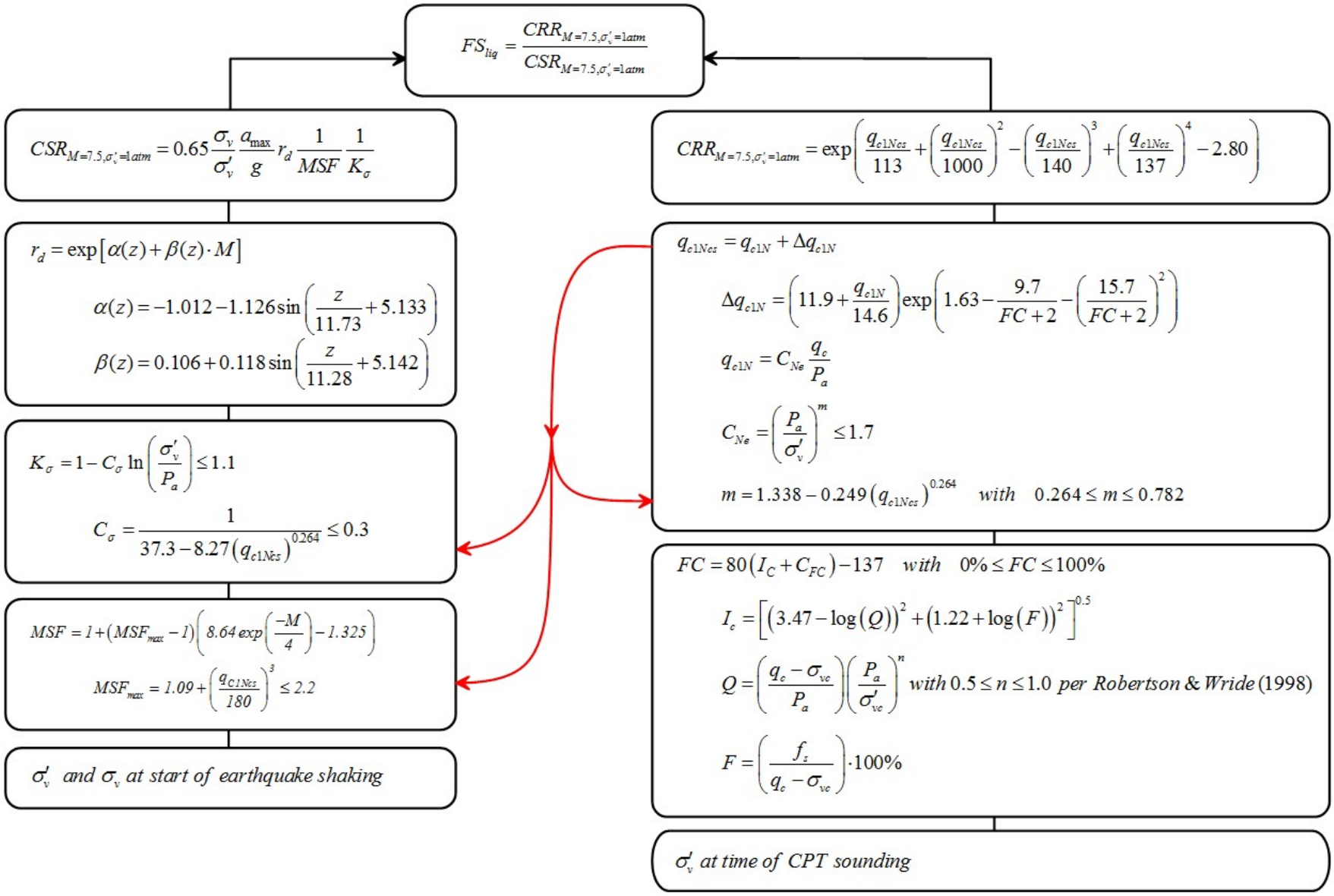
Procedure for the evaluation of soil liquefaction resistance, Idriss & Boulanger (2008)



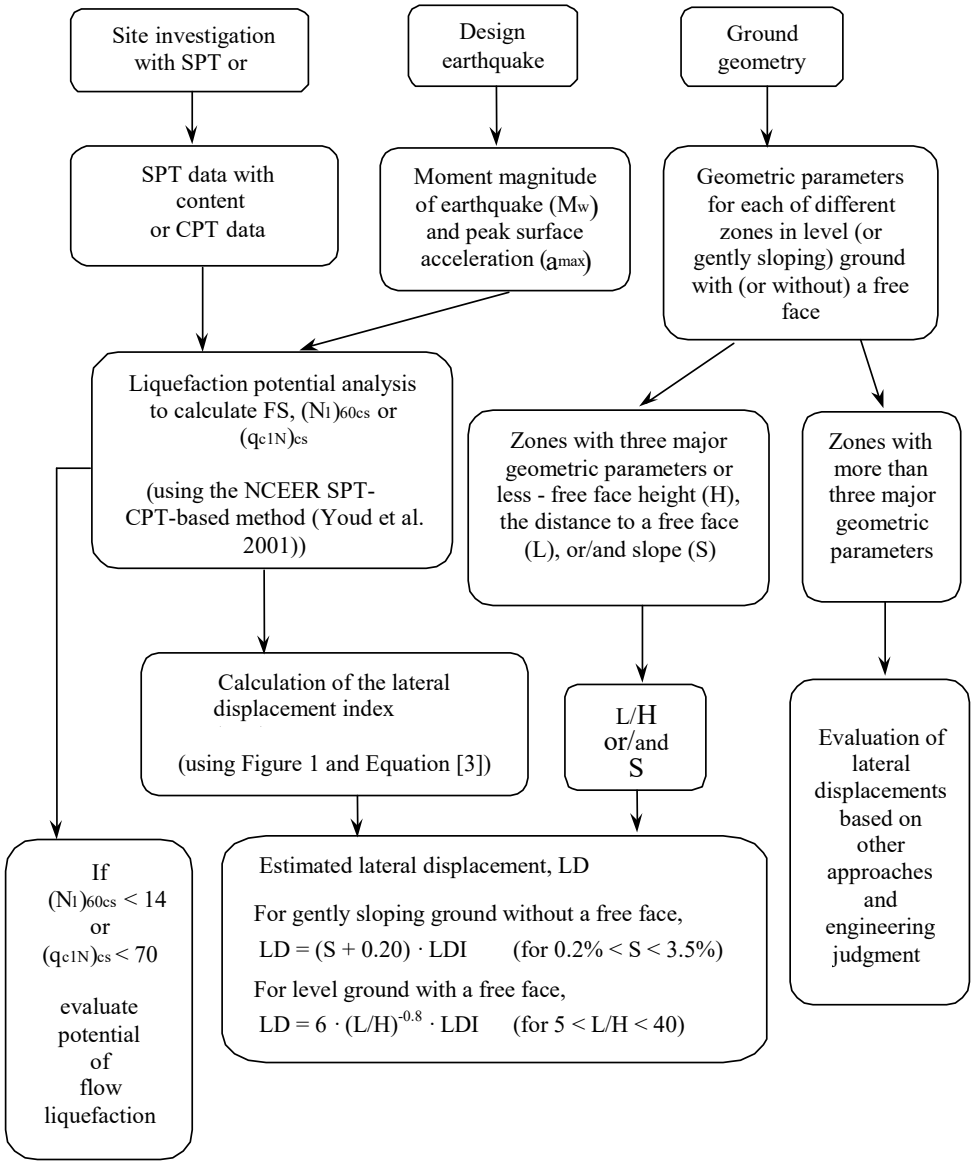
Procedure for the evaluation of soil liquefaction resistance (sandy soils), Moss et al. (2006)



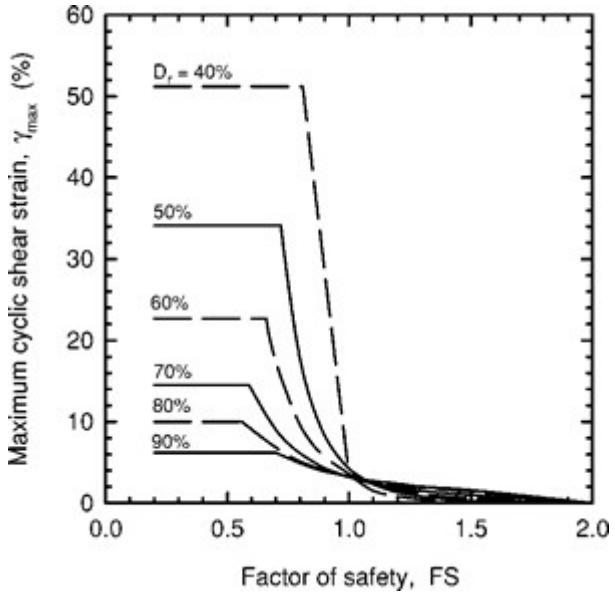
Procedure for the evaluation of soil liquefaction resistance, Boulanger & Idriss(2014)



Procedure for the evaluation of liquefaction-induced lateral spreading displacements



[1] Flow chart illustrating major steps in estimating liquefaction-induced lateral spreading displacements using the proposed approach



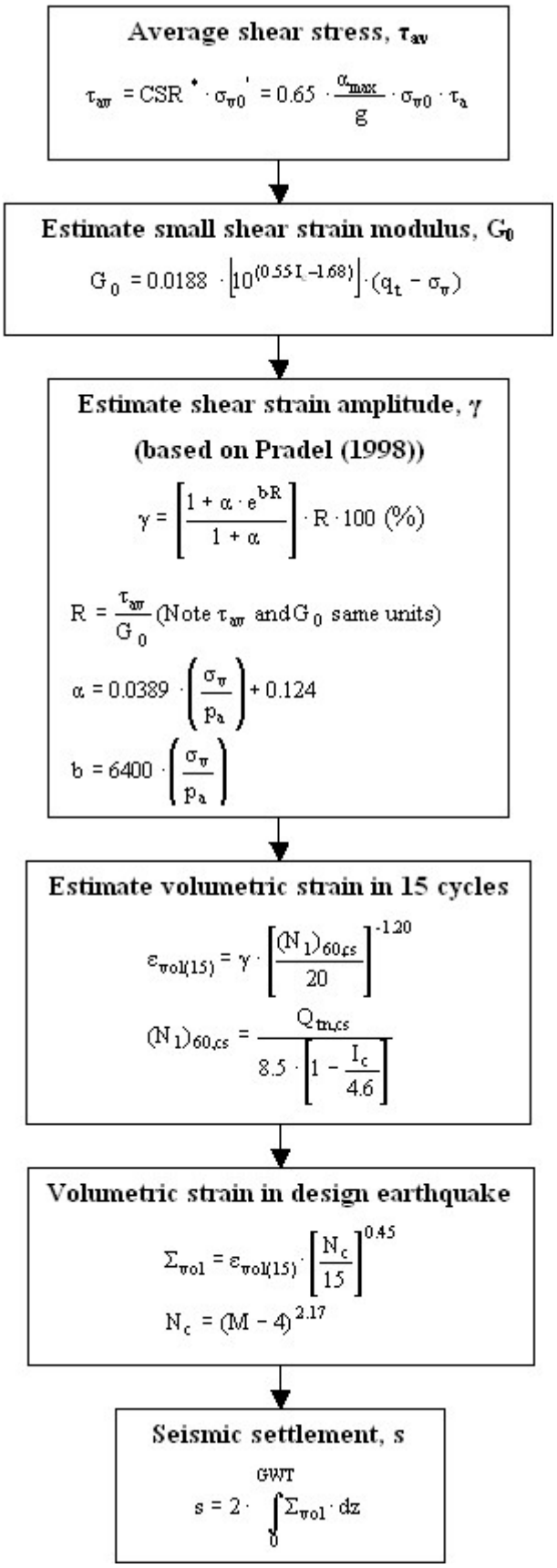
[1] **Figure 1**

$$LDI = \int_0^{z_{max}} \gamma_{max} dz$$

[1] **Equation [3]**

[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

Procedure for the estimation of seismic induced settlements in dry sands



Robertson, P.K. and Lisheng, S., 2010, "Estimation of seismic compression in dry soils using the CPT" FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS, Symposium in honor of professor I. M. Idriss, San Diego, CA

Liquefaction Potential Index (LPI) calculation procedure

Calculation of the Liquefaction Potential Index (LPI) is used to interpret the liquefaction assessment calculations in terms of severity over depth. The calculation procedure is based on the methology developed by Iwasaki (1982) and is adopted by AFPS.

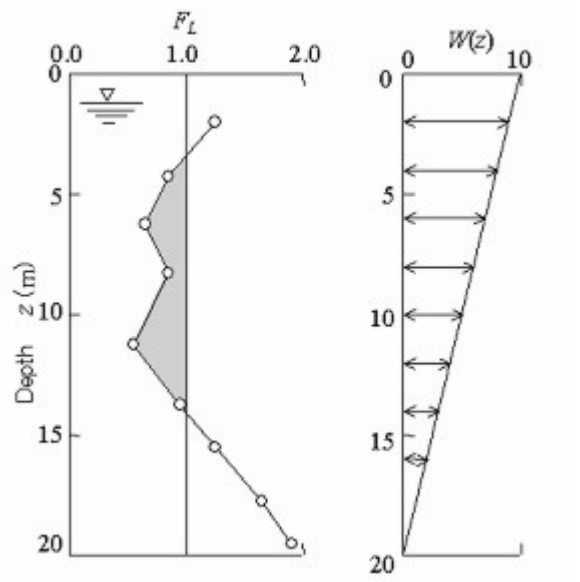
To estimate the severity of liquefaction extent at a given site, LPI is calculated based on the following equation:

$$\mathbf{LPI} = \int_0^{20} (10 - 0{,}5z) \times F_L \times dz$$

where:
F_L = 1 - F.S. when F.S. less than 1
F_L = 0 when F.S. greater than 1
z depth of measurment in meters

Values of LPI range between zero (0) when no test point is characterized as liquefiable and 100 when all points are characterized as susceptible to liquefaction. Iwasaki proposed four (4) discrete categories based on the numeric value of LPI:

- LPI = 0 : Liquefaction risk is very low
- 0 < LPI <= 5 : Liquefaction risk is low
- 5 < LPI <= 15 : Liquefaction risk is high
- LPI > 15 : Liquefaction risk is very high



Graphical presentation of the LPI calculation procedure

Shear-Induced Building Settlement (Ds) calculation procedure

The shear-induced building settlement (Ds) due to liquefaction below the building can be estimated using the relationship developed by Bray and Macedo (2017):

$$Ln(Ds) = c1 + c2 * LBS + 0.58 * Ln\left(Tanh\left(\frac{HL}{6}\right)\right) + 4.59 * Ln(Q) - 0.42 * Ln(Q)^2 - 0.02 * B + 0.84 * Ln(CAVdp) + 0.41 * Ln(Sa1) + \varepsilon$$

where Ds is in the units of mm, c1= -8.35 and c2= 0.072 for LBS ≤ 16, and c1= -7.48 and c2= 0.014 otherwise. Q is the building contact pressure in units of kPa, HL is the cumulative thickness of the liquefiable layers in the units of m, B is the building width in the units of m, CAVdp is a standardized version of the cumulative absolute velocity in the units of g-s, Sa1 is 5%-damped pseudo-acceleration response spectral value at a period of 1 s in the units of g, and ε is a normal random variable with zero mean and 0.50 standard deviation in Ln units. The liquefaction-induced building settlement index (LBS) is:

$$LBS = \sum W * \frac{\varepsilon_{shear}}{z} dz$$

where z (m) is the depth measured from the ground surface > 0, W is a foundation-weighting factor wherein W = 0.0 for z less than Df, which is the embedment depth of the foundation, and W = 1.0 otherwise. The shear strain parameter (ε_shear) is the liquefaction-induced free-field shear strain (in %) estimated using Zhang et al. (2004). It is calculated based on the estimated Dr of the liquefied soil layer and the calculated safety factor against liquefaction triggering (FSL).

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