

Regione  
Emilia-Romagna



Provincia di  
Ferrara



Comune di  
Mesola



# PARCO FOTOVOLTAICO E RELATIVE OPERE DI CONNESSIONE ALLA RTN DI POTENZA PARI A 6,29 MW NEL COMUNE DI MESOLA (FE).

r\_emiro.Giunta - Prot. 08/05/2024.046862.E Copia conforme

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Scala

-

Titolo elaborato:

Relazione geologica  
e indagini geotecniche

Formato

A4

CODICE ELABORATO

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RV-FV-ER-37	SCR	R	07

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Rev.	Data	Descrizione	Redige	Verifica	Approva
00	11/2023	Prima emissione	SBE	RC	G
01					
02					
03					
04					
05					
06					

GESTORE RETE ELETTRICA

e-distribuzione

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dell'originale sottoscritto digitalmente da CIS GIOVANNI

COMUNE DI MESOLA  
PROVINCIA DI FERRARA

**PARCO FOTOVOLTAICO E RELATIVE OPERE DI  
CONNESSIONE ALLA RTN DI POTENZA PARI A 5,12 MW  
NEL COMUNE DI MESOLA (FE)**

**Proponente**

**OPR SUN 31 SRL**

**Oggetto**

**RELAZIONE DI MODELLAZIONE GEOLOGICA, SISMICA  
E DI PRIME CONSIDERAZIONI GEOTECNICHE**

rev. 0

del 25/10/2023

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ALLEGATO 2 - INDAGINE SISMICA

ALLEGATO 3 – STUDIO DI RISPOSTA SISMICA LOCALE

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## **1. PREMESSA**

Su incarico ricevuto dalla Planum s.r.l., si redige la presente Relazione geologica, sismica e di prime considerazioni geotecniche, relativa al progetto di parco fotovoltaico e relative opere di connessione alla RTN di potenza pari a 5,12 MW proposto dalla OPR SUN 31 SRL.

La Società intende realizzare nel Comune di Mesola (FE) impianto fotovoltaico per la produzione di energia da fonte solare, di potenza di picco pari a 6.291,04 kWp, con tracker ad inseguimento mono-assiale (est-ovest), nel Comune di Mesola (Provincia di Ferrara) e delle opere connesse ed infrastrutture indispensabili alla costruzione e all'esercizio dell'impianto.

L'impianto in questione sarà del tipo a pannelli fotovoltaici su strutture ad inseguimento infisse nel terreno, esso sarà essenzialmente composto dai seguenti elementi:

- Strutture di sostegno ad inseguimento mono assiale "tracker";
- Pannelli fotovoltaici;
- Quadri Elettrici BT;
- Inverter di stringa per la conversione CC/CA;
- Cabina utente di misura e di trasformazione BT/MT;
- Cabina Consegna MT;
- Fanno parte dell'impianto elementi ausiliari e complementari:
- Impianti ausiliari;
- Sistema di sicurezza e sorveglianza;
- Viabilità di accesso e strade di servizio;
- Recinzione perimetrale;

Il posizionamento delle apparecchiature e delle strutture dell'impianto, nonché il tracciamento delle opere edili, è stato eseguito partendo dalla superficie complessivamente disponibile all'interno dell'area adibita ad attività produttive.

### **1.1 AREA IN ESAME**

L'area oggetto di intervento per la realizzazione dell'impianto fotovoltaico è ubicata nel comune di Mesola in provincia di Ferrara, in un terreno di circa 9,27 ha, sito nei pressi della zona produttiva.

Nello specifico il sito si trova, in un raggio di entro 500 metri dal terreno censito industriale. Il sito risulta progettato su un lotto per il quale il è prevista l'installazione di tracker inseguitori. L'impianto è accessibile da S.P. 68.

Le coordinate geografiche di riferimento, latitudine e longitudine (WGS84) sono:

- Latitudine Nord del centro: 44,92866722219214
- Longitudine Est del centro: 12,117174640701682

Il terreno è censito al Foglio: 4, Mappali: 93,95.

L'impianto sarà connesso alla rete e-distribuzione tramite la realizzazione di una nuova cabina di consegna collegata in antenna da cabina primaria AT/MT ARIANO.





Figura 1 - Inquadramento parco fotovoltaico su ortofoto Google Earth © in scala libera.

## 1.2 SCOPO DELLA PRESENTE DOCUMENTAZIONE

La presente relazione di Modellazione Geologica e sismica è basata su di una campagna di indagini atta ad acquisire le necessarie conoscenze geologiche, litostratigrafiche, geotecniche e di caratterizzazione sismica dell'area in esame (anche sulla base di riscontri su dati relativi ad aree prossime ed assimilabili quella in esame, conoscenze in possesso di bibliografia).

La presente modellazione è stata condotta nello spirito delle NTC vigenti e dell'O.P.C.M. 3274/2003 e seguenti.

## 1.3 INDAGINI GEOGNOSTICHE DI RIFERIMENTO

Si è eseguita, in accordo con il gruppo di progettazione, una indagine stratigrafica, sismica e geotecnica locale che è consistita nell'esecuzione di:

- n. 4 prove CPTU;
- n. 2 indagine sismica di tipo tromografico (TR).

Per l'espletamento delle prove sono stati utilizzati:

- CPTe e CPTU: penetrometro Tecnopenta;
- Indagine tromografica TR: tromografo TROMINO ® e l'apposito software GRILLA ® di costruzione Micromed.

Ci si è ulteriormente basati su alcune indagini stratigrafiche e penetrometriche di bibliografia come raffronto a quanto puntualmente rilevato.



Figura 2 – Perimetro del parco fotovoltaico e ubicazione dei punti di indagine su ortofoto Google Earth © in scala libera.

## **2. QUADRO NORMATIVO DI RIFERIMENTO**

Per l'esecuzione dell'incarico si è fatto riferimento alle seguenti leggi nazionali e regionali:

- D.M. 11/03/1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, ed i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione" in particolare per quanto attiene alla sezione H;
- L. 02/02/1974 n. 64 "Provvedimenti per le costruzioni con particolare riferimento alle prescrizioni per le zone sismiche" (art.13);
- D.M. 16/01/1996 "Norme tecniche per le costruzioni in zone sismiche" in particolare al punto C.6.1.1.: Azioni orizzontali – coefficiente di fondazione "ε";
- O.P.C.M. 3274/2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e s.m.i. e decreti attuativi;
- L.R. 30/10/2008 n.19 "Norme per la riduzione del rischio sismico" e s.m.i. e circolari illustrative;
- D.G.R. 1373/2011 "Atto di indirizzo recante l'individuazione della documentazione attinente alla riduzione del rischio sismico necessaria per il rilascio del permesso di costruire e per gli altri titoli edilizi, alla individuazione degli elaborati costitutivi e dei contenuti del progetto esecutivo riguardante le strutture e alla definizione delle modalità di controllo degli stessi, ai sensi dell'art. 12, comma 1, e dell'art. 4, comma 1, della L.R. n. 19 del 2008;
- D.M.17/01/18 "Norme tecniche per le costruzioni";
- D.G.R. 630/2019 "Atto di coordinamento tecnico sugli studi di microzonazione sismica per la pianificazione territoriale e urbanistica (artt. 22 e 49, L.R. n.24/2017)" e s.m.i.

Si è fatto altresì riferimento a varia e numerosa bibliografia tecnica.



### **3. VINCOLISTICA**

Per la valutazione degli strumenti di pianificazione sovraordinati che quelli comunali si rimanda allo Studio di Impatto Ambientale, in particolare si fa riferimento al documento RV-FV-ER-37-R01-00.

## 4. RELAZIONE GEOLOGICA SULLE INDAGINI, CARATTERIZZAZIONE E MODELLAZIONE GEOLOGICA DEL SITO

### 4.1 ASSETTO GEOLOGICO GENERALE

L'assetto geologico complessivo dell'area in esame è legato all'evoluzione del grande bacino subsidente padano di riempimento detritico ed all'evoluzione tettonica compressiva e convergente fra il dominio Sud- alpino ed il dominio appenninico. Ciò ha comportato la formazione di un complesso sistema di pieghe e faglie, orientate da NNO a SSE, ovvero da ONO a ESE o ancora Nord-Sud. Per la porzione settentrionale della Provincia di Ferrara e quindi anche per il territorio del Comune di Mesola, nonché ovviamente per l'area in esame la situazione può essere descritta in maniera molto semplificata con la presenza di un notevole "pacco" di deposizioni alluvionali sciolte e/o fini, d'età Pleistocenica (dal Pleistocene Medio - Olocene: 0,45 Milioni di anni-presente, al Pleistocene Medio-Superiore: 4,1-1,8 Milioni di anni) sovrastanti le strutture appenniniche sepolte, d'età Miocenica (2,4-5,4 Milioni di Anni fa), quali sovrascorrimenti e/o fronti dai accavallamento (dalla successione carbonatica Meso-Cenozoica fino al Basamento - Accavallamento profondo d'età Post-Tortoniana).

Considerato che nel tempo si sono registrate ricadute sismiche locali, tali strutture risultano essere potenziali sedi di riattivazione di eventi sismici dell'area padana e dell'area in esame, e se ne darà rapido conto al paragrafo 6 "Relazione sulla modellazione sismica concernente la pericolosità sismica di base del sito di costruzione".

Nelle vicinanze dell'area di studio si rilevano sovrascorrimenti attivi nel basamento e nella successione carbonatica e strutture neogeniche senza evidenza di attività recente.

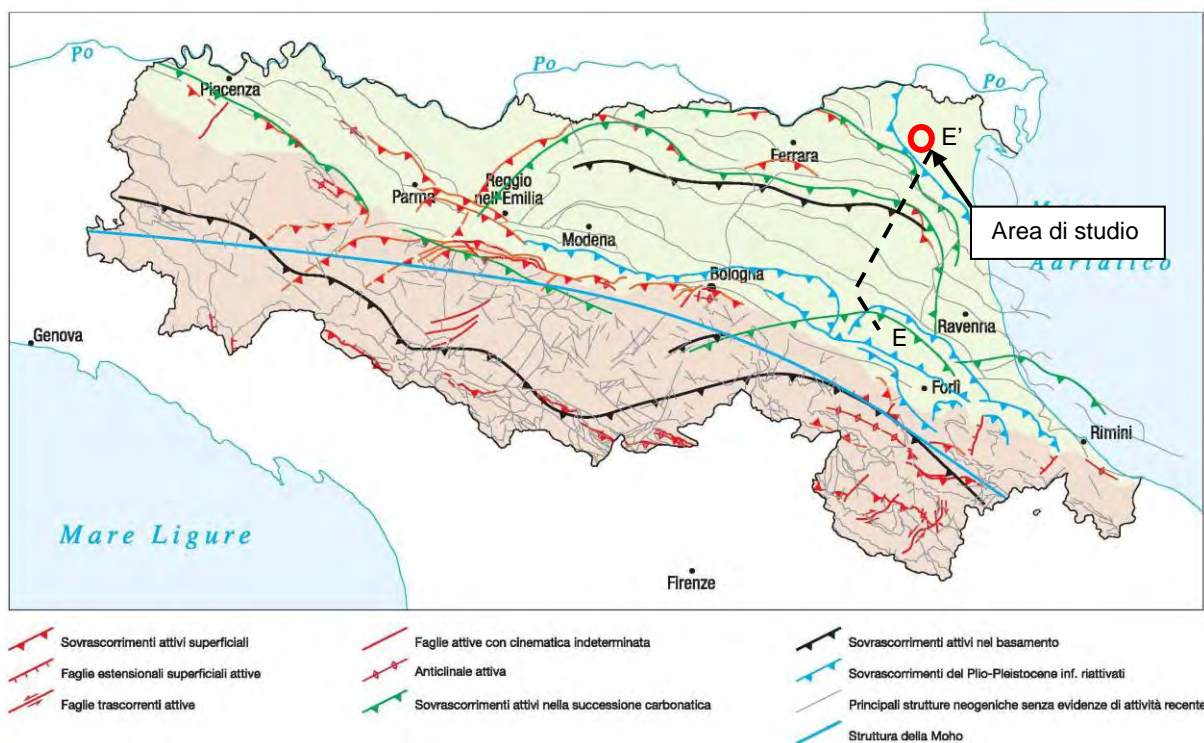


Figura 3 – Schema geologico tratto Carta Sismotettonica dell'Emilia-Romagna

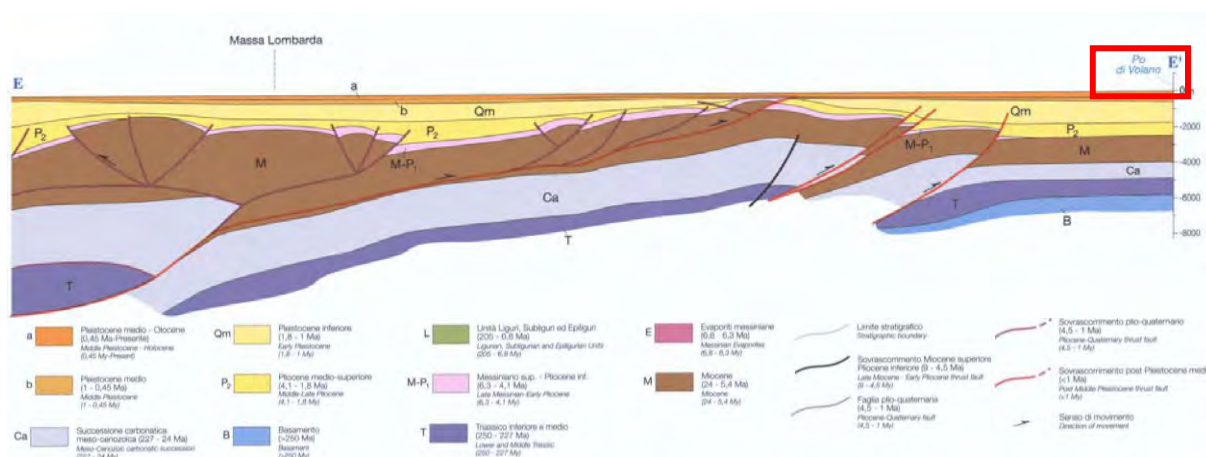


Figura 4 – Sezione geologica E-E', con l'andamento delle pieghe e delle faglie del substrato

## 4.2 ASSETTO GEOLOGICO E GEOMORFOLOGICO DELL'AREA IN ESAME

Dal punto di vista geologico latu- sensu e sulla base delle apposite cartografie di riferimento locale e regionale, è possibile ascrivere i terreni di fondazione, caratterizzanti l'area in esame, ai terreni sciolti sabbio-limosi di conoide e terrazzo alluvionale.

Dalla Carta Geologica di pianura dell'Emilia – Romagna si evince come per l'area in oggetto si trova su depositi di natura granulare ovvero sabbie medie e fini in strati di spessore decimetrico passanti lateralmente ed intercalate a sabbie fini e finissime limose, subordinatamente limi argillosi; localmente sabbie medie e grossolane in corpi lenticolari e nastriformi.

Tali depositi sono ascrivibili a depositi di canale e argine prossimale depositati del Po di Goro e di Volano quando divagavano in quei territori.



Figura 5 – Estratto della Carta geologica di pianura in scala libera



La Carta Geologica dell'Emilia-Romagna in scala 1: 10 000 (disponibile dal sito del Servizio Geologico, Sismico e dei Suoli) indica che l'area di studio ricade in ambiente di piana alluvionale e nello specifico al limite tra litotipi sabbio-limosi tipici di deposito di canale distributore, argine e rotta e argille limose con torba tipici di deposito di palude in area interdistributrice. Sull'area inoltre viene evidenziata la presenza di una traccia antica certa di canale di area interdistributrice e una traccia certa di ventaglio di esondazione.

L'unità geologica è la AES8a, ovvero l'unità di Modena, in particolare trattasi del Sintema emiliano-romagnolo superiore - Subsintema di Ravenna. La AES8a è un'unità costituita da ghiaie e ghiaie sabbiose o da sabbie con livelli e lenti di ghiaie ricoperte da una coltre limoso argillosa discontinua, in contesti di conoide alluvionale, canale fluviale e piana alluvionale intravalliva. Al tetto l'unità presenta localmente un suolo calcareo poco sviluppato di colore grigio-giallastro.

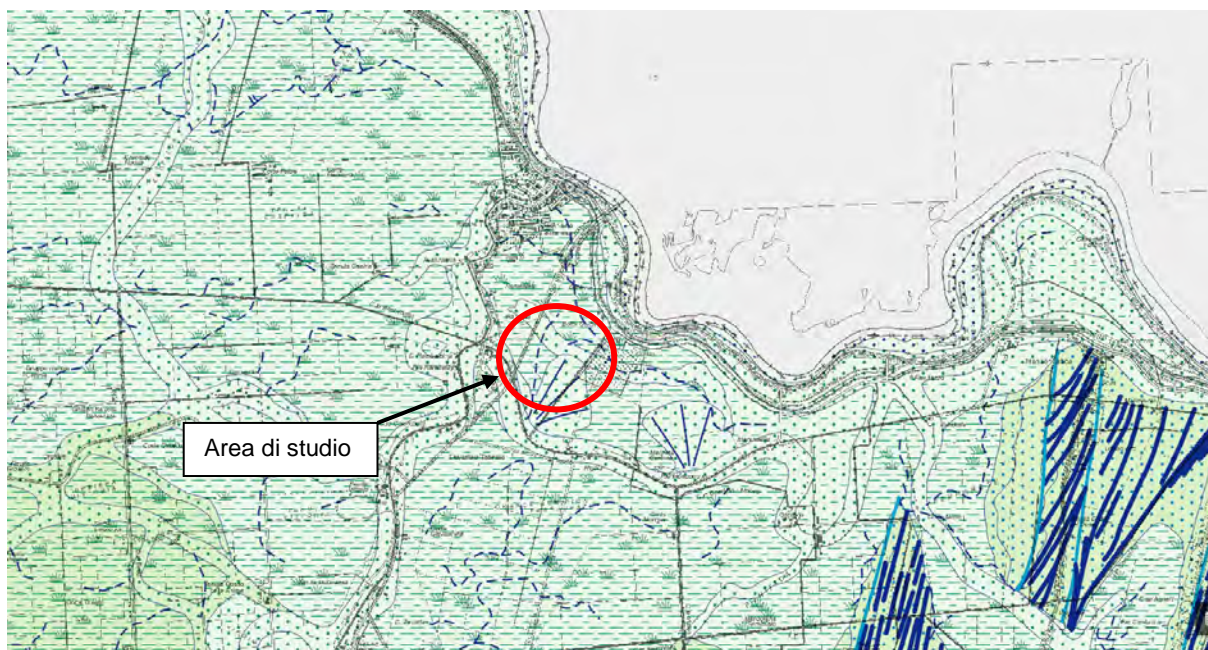


Figura 6 – Estratto della Carta geologica dell'Emilia-Romagna

La condizione litologica superficiale, riscontrata in fase di indagine penetrometrica, è pienamente conforme con quanto indicato dalle cartografie tematiche di cui sopra che sostanzialmente considerano la litologia di superficie ovvero dei primi decimetri di spessore. Dall'analisi delle risultanze delle prove penetrometriche eseguite e delle indagini bibliografiche, nella sequenza deposizionale si è potuto rilevare che:

- CPTU1, CPTU2 e CPTU3 (eseguite nell'area caratterizzata da depositi di palude in area interdistributrice) si rileva sostanzialmente la presenza di litotipi argillo-limosi fino a -10,00/-11,00 m dal p.c. e a seguire una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi.
- CPTU4 (eseguita nell'area caratterizzata da depositi di canale distributore, argine e rotta) si rileva sostanzialmente la presenza di litotipi argillo-limosi fino a -4,00 m dal p.c. e a seguire

una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi.

#### **4.3 ASSETTO IDROLOGICO ED IDROGEOLOGICO LOCALE**

L'area è sita a circa 500 m a Sud-Ovest del canale Pandolfi e a 700 m a Sud-Ovest del Po di Goro. Non si rilevano altri corpi idrici se non fossi e scoli in quanto l'area si trova in area agricola.

La falda freatica locale, o almeno la prima falda sospesa, è stata rilevata, nel foro di esecuzione delle CPTU alla profondità di circa -1,00 m dal p.c.

Durante la fase esecutiva dei lavori di realizzazione della rete scolante dell'impianto si ritiene opportuno approfondire il tema al fine di avere la conferma di quanto sopra esposto.

Per l'area in esame è normale attendersi oscillazioni della falda (che caratterizzano un'ampia fascia della Pianura Padana). È cioè naturale/normale registrare variazioni del livello della falda fra i periodi estivi/caldi e "siccitosi" e quelli invernali/freddi e piovosi. Il regime delle precipitazioni atmosferiche ed il regime termico locale determina la più o meno veloce ricarica (per semplice infiltrazione diretta) o depressione (relativamente ai fenomeni evapo-traspirativi) della prima falda freatica locale. Dalla misura sopra riportata si potranno registrare nei periodi caldi/siccitosi un approfondimento del livello della prima tavola d'acqua rispetto al piano campagna. È plausibile, pertanto, ipotizzare una risalita sino a profondità di -1,00 m circa dal p.c., che rappresenta un dato comunque molto penalizzante, ed un abbassamento sino a 4,00 m circa dal p.c.

Chiaramente di tali variazioni della prima falda occorrerà tenere debito conto relativamente alla progettazione delle strutture previste sull'area in esame in quanto potranno originare fenomeni di rigonfiamento e/o di ritiro dei terreni di fondazione, poiché le variazioni del livello della falda potrebbero svilupparsi anche non in forma ciclica e/o regolare, anche le eventuali variazioni di volume potrebbero avere andamento imprevedibile. Le variazioni del livello della prima tavola d'acqua potranno poi sensibilmente modificare le caratteristiche geotecniche dei terreni interessati a tale variazione. L'imbibimento infatti, sviluppandosi su terreni superficiali che presentano una non trascurabile frazione "coesiva" che è per natura più sensibile a tale fenomeni, potrà comunque diminuire le caratteristiche di compressibilità dei terreni.

Relativamente alle falde profonde, queste non verranno ad essere interessate e/o modificate dalla realizzazione delle opere in oggetto.

#### **4.4 LITOSTRATIGRAFIA DELL'AREA IN ESAME E PRIME CONSIDERAZIONE GEOTECNICHE DI MASSIMA**

Sulla base della prova eseguita, si riportano le seguenti caratteristiche litostratigrafiche caratterizzanti, dal punto di vista geologico, l'area in esame.

- **Orizzonte 1:** da -0,00 m a -10,00/-11,00 m dal p.c.

Litotipi argillosi e limo-argillosi con probabile presenza di sostanza organica/torba a componente coesiva prevalente. Nella CPTU4 lo spessore risulta raggiungere soltanto la quota di circa -4,00 m dal p.c.



(a conferma della presenza di un ventaglio di rotta fluviale). I valori di  $Q_c$  sono mediamente compresi tra 5 e 15 kg/cm<sup>2</sup>

- **Orizzonte 2:** da -10,00/-11,00 m a -20,00 m dal p.c.

Alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi con probabile presenza di sostanza organica/torba a componente sia granulare che coesiva. Si rileva la presenza prevalente di spessori sabbiosi e limo-sabbiosi nella CPTU2 e CPTU4. I valori di  $Q_c$  sono mediamente compresi tra 40 e 80 kg/cm<sup>2</sup> negli spessori maggiormente limo-sabbiosi e tra 10 e 20 kg/cm<sup>2</sup> negli spessori maggiormente argillo-limosi

Tale assetto litostratigrafico si inserisce correttamente nel quadro geologico ed evolutivo (geomorfologico) locale già descritto, come confermato anche dall'analisi delle indagini bibliografiche in possesso nelle dintorni dell'area di studio.

Data la presenza dei terreni coesivi, ovvero di argille e limi, è perciò normale attendersi compressibilità/cedevolezza elevata ed una maturazione dei cedimenti che potrà avvenire in tempi anche lunghi. Circa l'entità dei cedimenti e le metodologie e tempistiche di maturazione degli stessi, allo stato attuale delle conoscenze, non avendo a disposizione dati edometrici di laboratorio (derivanti da analisi dirette su campioni di terreno indisturbati raccolti in loco), non è possibile aggiungere niente di più preciso; tale tematica dovrà comunque essere attentamente considerata. In tutti i casi occorrerà attentamente valutare le modalità di interazione fra la struttura da realizzare, le derivanti sovrappressioni che saranno trasmesse ai terreni fondali e le caratteristiche geotecniche dei terreni stessi.

Tale assetto litostratigrafico si inserisce correttamente nel quadro geologico ed evolutivo (geomorfologico) locale già descritto, come confermato anche dall'analisi delle indagini bibliografiche, la cui ubicazione è riportata in allegato.

Nel dettaglio si può osservare quanto segue:

- I litotipi coesivi sono quelli che, dal punto di vista di un intervento di edificazione caratterizzano l'area in esame dal punto di vista fisico-geotecnico, per tali litotipi le condizioni sature (non drenate,  $\phi = 0$ ) caratterizzanti l'area in esame costituiscono particolare aggravio per la stabilità delle strutture e/o per l'insorgenza dei cedimenti, nonché per la prolungata durata nel tempo dello svilupparsi di tali cedimenti. Infatti la natura stessa dei litotipi argillosi non consente la rapida dissipazione delle sovrappressioni (date dai carichi gravanti). Il tema dei cedimenti secondari/o a lungo termine dovrà essere attentamente considerato.
- Le eventuali e normali/naturali variazioni del livello della falda freatica potranno dar origine a fenomeni di rigonfiamenti e ritiri per i terreni in oggetto. Si ritiene che tale fenomeno debba essere tenuto in considerazione e controllato. Le strutture fondali dovranno essere sufficientemente rigide da supportare le suddette variazioni di volume (che potranno svilupparsi in maniera "ritmica" o regolare, ma anche in maniera imprevedibile) e le strutture in elevazione dovranno essere dotate di accorgimenti che consentano di non danneggiarsi (anche relativamente a finiture e/o impianti) in caso delle citate variazioni di volume dei terreni fondali.

- Le variazioni del livello della falda superficiale potranno anche causare variazioni delle caratteristiche geomeccaniche dei terreni interessati a queste stesse variazioni, che normalmente si svilupperanno in penalizzazioni in caso di imbibimento, ovvero di avvicinamento del livello della falda al p.c.
- Nel complesso, si ritiene che l'area in esame non presenti rischi derivanti da fenomeni di liquefazione all'atto di un eventuale episodio sismico se non trascurabili. L'argomento verrà comunque trattato all'apposito punto della presente relazione, al quale si rimanda.

Per una puntuale individuazione della stratigrafia rilevata si rimanda alle apposite schede e per una puntuale individuazione della stratigrafia rilevata si rimanda all'allegato cui sono presenti le schede di restituzione stratigrafica. Più approfondite considerazioni di natura geotecnica sono proprie e saranno quindi riportate nella successiva fase di Modellazione Geotecnica.

È comunque raccomandabile porre attenzione, durante la fase esecutiva alla validazione del modello testè descritto. E cioè verificare se quanto rilevabile anche solo superficialmente, in fase di scavo delle eventuali strutture fondali sia sufficientemente aderente a quanto descritto. Nel caso invece si individuasse la presenza di situazioni anomale localizzate e non previste, sarà opportuno e doveroso procedere ad una rivisitazione critica del modello proposto e/o individuare opportuni provvedimenti atti a "recuperare" la funzionalità di ogni eventuale fase progettuale/ realizzativa.

## **5. PRIME CONSIDERAZIONI GEOTECNICHE SULLE INDAGINI, CARATTERIZZAZIONE E MODELLAZIONE DEL VOLUME SIGNIFICATIVO DI TERRENO**

Il piano di posa delle strutture fondali dovrà essere posto al di fuori della fascia di terreno di fondazione che può significativamente risentire e/o essere interessata dalle oscillazioni (anche dal fenomeno del gelo, che per le latitudini ed il clima in questione può determinare i propri effetti sino alla profondità di 60 cm circa dal p.c.) del contenuto di acqua. Per l'area oggetto della presente relazione occorre ricordare la superficialità della falda durante il periodo invernale/piovoso. Quindi se gli scavi per realizzare le strutture fondali dovessero superare la profondità di -1,00 m dal p.c. potrebbero, se eseguiti in periodo piovoso, dover essere eseguiti in falda o comunque in presenza di acqua ed occorrerà provvedere al mantenimento degli stessi "fronti" di scavo (seppure di modestissima altezza), durante l'esecuzione delle stesse strutture fondali. Occorrerà poi tenere in conto della sottospinta idraulica e del fatto che tale sottospinta potrà essere variabile ovvero anche del tutto assente. Occorrerà infatti tenere conto delle naturali/normali oscillazioni della falda, tali oscillazioni potranno essere indicativamente comprese fra 1,00 e 4,00 m circa dal p.c. e oltre (come riportato al § 4 al quale si rimanda). Le oscillazioni potranno seguire o meno il regime termico e pluviometrico atmosferico. La variazione del livello della falda causerà ritiri e rigonfiamenti (anche centimetrici) degli stessi terreni di fondazione e potrà notevolmente variare le caratteristiche geomeccaniche dei terreni che subiranno tali effetti. Dette variazioni si svilupperanno in maniera più o meno ciclica, si necessiterà quindi di opportuna rigidità strutturale (soprattutto fondale) e di strutture in elevazione che non si danneggino, nemmeno relativamente a finiture e/o impianti. Le variazioni di livello della falda porteranno poi anche a sensibili variazioni delle caratteristiche geotecniche dei terreni che subiscono tali variazioni. Ci si potrà pertanto attendere qualche variazione rispetto ai valori dei parametri geotecnici di cui al paragrafo 5.2 - Caratterizzazione meccanica dei terreni e definizione dei parametri geotecnici caratteristici. Questo dovrà essere opportunamente preso in considerazione in fase di progettazione esecutiva geotecnica dell'impianto.

Per una più attenta descrizione dell'assetto idrogeologico locale si rimanda al paragrafo 4.3 - Assetto idrologico ed idrogeologico locale.

### **5.1 CARATTERIZZAZIONE FISICA DEI TERRENI**

Le condizioni dei terreni di fondazione sono **non drenate** da una profondità variabile indicativamente compresa fra -1,00/-4,00 m circa dal p.c., (come riportato al § 4 al quale si rimanda).

**Condizioni drenate non sono significative per l'area in esame.**

## **5.2 CARATTERIZZAZIONE MECCANICA DEI TERRENI**

### **5.2.1 CONSIDERAZIONI GEOTECNICHE ED ALTRE CONSIDERAZIONI LOCALI RELATIVE AI TERRENI DELL'AREA IN ESAME**

Le peculiarità geotecniche dell'area in esame, sono caratterizzate dalla presenza fino a -10,00/-11,00 m dal p.c. di litotipi argillo-limosi (tranne nella prova CPTU4 che vengono rilevati più superficialmente già a -4,00 m dal p.c.) e a seguire una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi intercalati a livelli argillo-limosi di spessore variabile.

Possono quindi rilevarsi le seguenti peculiarità geotecniche (latu sensu):

- I terreni presentano compressibilità/cedevolezza non del tutto trascurabile, causato dalla presenza di terreni argillosi e argillo limosi fino alla quota sopra indicata. Si ricorda che l'eventuale presenza di torbe, oltre a presentare caratteristiche geotecniche e capacità portante scarsissime sono altresì caratterizzate da anisotropia spazio/temporale dell'insorgere e della maturazione dei cedimenti che potrebbero essere anche differenziali e/o "improvvisi". Normalmente tali effetti negativi potrebbero essere "controllati" da una debita rigidità delle strutture fondali.
- I terreni di fondazioni sono in condizioni NON drenate, la maturazione dei cedimenti (all'assunzione dei carichi) potrà prolungarsi lungamente nel tempo. Le condizioni non drenate (connesse alla natura argillosa) non consentono infatti la rapida dissipazione dei sovraccarichi derivanti dall'edificazione delle strutture.
- Condizioni drenate non sono complessivamente significative per l'area in esame.
- Le naturali/normali oscillazioni della falda freatica potranno far variare il volume dei terreni di fondazione (interessati appunto alla variazione della falda). Si potranno instaurare fenomeni di rigonfiamento/ritiro che potranno svolgersi con modalità più o meno cicliche (in connessione alla variabilità/stagionalità delle condizioni climatiche), ovvero con modalità molto meno prevedibili.
- Largamente trascurabile è anche la presenza di litotipi granulari per i quali si possano ipotizzare fenomeni di liquefazione all'atto di uno scuotimento sismico.

Relativamente alla valutazione della natura degli interventi in oggetto dovranno eseguire apposite valutazioni strutturali e geotecniche, come previsto dalle NTC vigenti.

### **5.2.2 DEFINIZIONE DEI PARAMETRI GEOTECNICI CARATTERISTICI**

Si propone la seguente caratterizzazione dei terreni, sulla base dell'indagine penetrometrica eseguita (l'indagine eseguita è stata anche raffrontata ad indagini di bibliografia relative alla caratterizzazione geologica, in senso lato, locale e quindi ad aree prossime a quella in esame ed ad essa assimilabili dal punto di vista dell'origine geologica e lito-deposizionale). La Modellazione Geotecnica è proposta nella tabella seguente ed è relativa ai parametri indicati dalle NTC vigenti. Evidentemente è riportata sulla base di ipotesi che si ritengono congrue alle opere da realizzare.

Si è quindi proceduto all'individuazione di valori geotecnici caratteristici delle CPTU che saranno di seguito tabellati; tali valori potranno essere suscettibili di riconsiderazione da parte dei progettisti, sulla base di eventuali considerazioni diverse da quelle adottate nella presente relazione. L'intera progetta-

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zione geotecnica delle strutture dovrà comunque essere attentamente valutata in relazione alla funzionalità ed alle "richieste" (carichi, cedimenti ammissibili, altri requisiti funzionali ecc.) delle strutture. Dovranno altresì, logicamente, valutarsi i singoli cedimenti assoluti per le singole strutture da realizzarsi e nei vari punti caratteristici di tali strutture (centro fondazione, margini fondazione ecc.). Dell'indagine eseguita si riportano in allegato i moduli relativi alle tabelle dei parametri geotecnici derivati alle quali si rimanda per una puntuale individuazione di tali parametri.

ANGOLO DI ATTRITO (Sandy argille) e Kulhawy Mayne (sabbie)	ANGOLO DI ATTRITO A VOLUME COSTANTE	DENSITA' RELATIVA Tatsuoka 1990	COESIONE DRENATA	COESIONE NON DRENATA programma Robertson 2013	COEFFICIENTE DI POISSON Manuale di uso C.D.G.	MODULO DI TAGLIO INIZIALE Robertson 2013	MODULO ELASTICO autori vari	MODULO EDOMETRICO Benassi	Ki di Winkler per piastra di 30cm	Kh di Winkler per pali di diametro 30cm	DENSITA' DEL TERRENO	DENSITA' DEL TERRENO SECCO	OVER CONSOLIDATION RATIO Merchì / SG T 2014
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**VALORI CARATTERISTICI PER PICCOLI VOLUMI**

UNITA' GEOTECNICA	CPT 1		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma$ valori medie	$\gamma_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/m <sup>3</sup>	kg/m <sup>3</sup>	
A	0.00	0.72	2.87	4	limo argilloso-argilla limosa	19.2			0.49	0.51	0.24	342	144	48	2.12	2.12	1844	1444	49.70
B	0.72	3.00	3.35	3	argilla-argilla limosa	20.3			0.00	0.11	0.39	91	34	11	0.52	0.52	1516	1116	2.55
C	3.00	9.90	3.09	3	argilla-argilla limosa	21.8			0.00	0.17	0.40	113	54	18	0.89	0.89	1608	1208	2.12
D	9.90	11.00	2.78	4	limo argilloso-argilla limosa	22.5			0.00	0.43	0.39	192	106	36	1.78	1.47	1712	1312	2.98
E	11.00	11.80	2.43	5	sabbia limosa-limo sabbioso	25.6	24.4	21.9			0.32	399	149	100	2.03	0.35	1836	1436	5.27
F	11.80	12.10	2.87	4	limo argilloso-argilla limosa	22.8			0.00	0.52	0.40	196	98	33	2.14	2.14	1670	1270	2.08
G	12.10	12.30	1.77	6	sabbia-sabbia limosa	39.1	32.5	63.6			0.37	639	683	267	21.65	8.02	1943	1543	
H	12.30	13.90	2.89	4	limo argilloso-argilla limosa	22.2			0.00	0.34	0.40	176	85	28	1.80	1.80	1695	1295	2.10
I	13.90	17.90	2.01	6	sabbia-sabbia limosa	36.8	32.8	47.5			0.35	575	427	191	7.57	3.33	1889	1489	
J	17.90	20.00	2.94	4	limo argilloso-argilla limosa	22.4			0.00	0.47	0.40	275	158	53	2.43	2.43	1768	1368	1.99

**VALORI CARATTERISTICI PER GRANDI VOLUMI**

UNITA' GEOTECNICA	CPT 1		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma$ valori medie	$\gamma_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/m <sup>3</sup>	kg/m <sup>3</sup>	
A	0.00	0.72	2.87	4	limo argilloso-argilla limosa	20.5			0.49	0.79	0.24	371	212	71	2.67	2.67	1844	1444	49.70
B	0.72	3.00	3.35	3	argilla-argilla limosa	22.3			0.02	0.15	0.39	112	44	15	0.66	0.66	1516	1116	2.55
C	3.00	9.90	3.09	3	argilla-argilla limosa	23.4			0.00	0.30	0.40	154	91	30	1.32	1.32	1608	1208	2.12
D	9.90	11.00	2.78	4	limo argilloso-argilla limosa	25.3			0.04	0.73	0.39	257	163	55	2.43	2.32	1712	1312	2.98
E	11.00	11.80	2.43	5	sabbia limosa-limo sabbioso	30.3	28.5	28.0			0.32	442	238	117	3.31	1.64	1836	1436	5.27
F	11.80	12.10	2.87	4	limo argilloso-argilla limosa	24.4			0.00	0.58	0.40	220	125	42	2.22	2.22	1670	1270	2.08
G	12.10	12.30	1.77	6	sabbia-sabbia limosa	39.8	32.4	68.7			0.37	724	808	321	32.56	11.16	1943	1543	
H	12.30	13.90	2.89	4	limo argilloso-argilla limosa	24.5			0.00	0.62	0.40	250	153	51	2.34	2.34	1695	1295	2.10
I	13.90	17.90	2.01	6	sabbia-sabbia limosa	38.1	32.7	56.4			0.35	668	589	247	16.33	6.15	1889	1489	
J	17.90	20.00	2.94	4	limo argilloso-argilla limosa	24.5			0.00	0.86	0.40	371	243	81	3.08	3.08	1768	1368	1.99

**VALORI MEDI**

UNITA' GEOTECNICA	CPT 1		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma$ valori medie	$\gamma_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/m <sup>3</sup>	kg/m <sup>3</sup>	
A	0.00	0.72	2.87	4	limo argilloso-argilla limosa	21.6			0.50	1.01	0.24	392	263	88	3.09	3.09	1844	1444	49.70
B	0.72	3.00	3.35	3	argilla-argilla limosa	22.6			0.02	0.15	0.39	115	46	15	0.68	0.68	1516	1116	2.55
C	3.00	9.90	3.09	3	argilla-argilla limosa	23.5			0.01	0.30	0.40	157	94	31	1.35	1.35	1608	1208	2.12
D	9.90	11.00	2.78	4	limo argilloso-argilla limosa	25.9			0.08	0.80	0.39	271	176	60	2.58	2.51	1712	1312	2.98
E	11.00	11.80	2.43	5	sabbia limosa-limo sabbioso	32.4	30.3	31.4			0.32	461	278	125	3.88	2.22	1836	1436	5.27
F	11.80	12.10	2.87	4	limo argilloso-argilla limosa	25.3			0.00	0.61	0.40	233	140	47	2.27	2.27	1670	1270	2.08
G	12.10	12.30	1.77	6	sabbia-sabbia limosa	40.6	32.1	73.8			0.37	808	930	375	43.28	14.24	1943	1543	
H	12.30	13.90	2.89	4	limo argilloso-argilla limosa	24.9			0.01	0.67	0.40	263	165	55	2.44	2.44	1695	1295	2.10
I	13.90	17.90	2.01	6	sabbia-sabbia limosa	38.2	32.7	57.5			0.35	679	609	254	17.44	6.50	1889	1489	
J	17.90	20.00	2.94	4	limo argilloso-argilla limosa	24.8			0.00	0.92	0.40	385	255	85	3.18	3.18	1768	1368	1.99

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**DI POTENZA PARI A 5,12 MW NEL COMUNE DI MESOLA (FE)**  
**RELAZIONE DI MODELLAZIONE GEOLOGICA E SISMICA E DI PRIME CONSIDERAZIONE GEOTECNICHE**

ANGOLO DI ATTRITO Searly (argille) e Kulhawy Mayne (sabbie)	ANGOLO DI ATTRITO A VOLUME COSTANTE	DENSITA' RELATIVA Tatsucka 1990	COESIONE DRENATA	COESIONE NON DRENATA programma Robertson 2013	COEFFICIENTE DI POISSON Manuale di Leco C.D.G.	MODULO DI TAGLIO INIZIALE Robertson 2013	MODULO ELASTICO autori vari	MODULO EDOMETRICO Benassi	Ki di Winkler per piastra di 30cm	Kh di Winkler per pali di diametro 30cm	DENSITA' DEL TERRENO	DENSITA' DEL TERRENO SECCO	OVER CONSOLIDATION RATIO Marchi / SGT 2014
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**VALORI CARATTERISTICI PER PICCOLI VOLUMI**

UNITA' GEOTECNICA	CPT 2		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma'$ valori medie	$\gamma'_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/mc	kg/mc	
A	0.00	0.70	2.51	5	sabbia limosa-limo sabbioso	20.7	19.0	26.7			0.29	285	223	65	2.40	0.82	1785	1385	52.98
B	0.70	2.80	3.54	3	argilla-argilla limosa	19.1			0.00	0.07	0.28	76	26	9	0.38	0.38	1514	1114	2.16
C	2.80	3.90	3.20	3	argilla-argilla limosa	23.1			0.00	0.13	0.40	101	46	15	0.68	0.68	1536	1136	2.28
D	3.90	4.60	2.06	5	sabbia limosa-limo sabbioso	35.2	32.6	36.6			0.35	261	330	70	4.05	1.88	1732	1332	
E	4.60	6.00	3.00	3	argilla-argilla limosa	22.4			0.00	0.18	0.40	128	64	21	0.97	0.97	1621	1221	2.59
F	6.00	9.80	3.08	3	argilla-argilla limosa	22.7			0.00	0.19	0.40	126	77	26	1.06	1.06	1601	1201	1.69
G	9.80	10.30	2.29	5	sabbia limosa-limo sabbioso	33.2	31.9	22.9			0.32	324	190	73	1.78	0.86	1750	1350	
H	10.30	12.70	2.72	4	limo argilloso-argilla limosa	21.8			0.00	0.46	0.37	210	108	37	1.78	0.82	1756	1356	3.16
I	12.70	15.00	2.58	5	sabbia limosa-limo sabbioso	22.1	21.7	9.4			0.35	205	86	18	0.54	0.41	1812	1412	3.51
J	15.00	16.50	2.99	3	argilla-argilla limosa	22.4			0.00	0.49	0.40	243	161	54	2.23	2.23	1736	1336	1.87
K	16.50	17.00	2.18	5	sabbia limosa-limo sabbioso	35.0	32.5	35.4			0.33	505	316	139	4.51	1.98	1819	1419	

**VALORI CARATTERISTICI PER GRANDI VOLUMI**

UNITA' GEOTECNICA	CPT 2		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma'$ valori medie	$\gamma'_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/mc	kg/mc	
A	0.00	0.70	2.51	5	sabbia limosa-limo sabbioso	25.7	24.0	28.1			0.29	313	246	75	3.70	1.61	1785	1385	52.98
B	0.70	2.80	3.54	3	argilla-argilla limosa	20.7			0.01	0.10	0.28	106	38	13	0.52	0.52	1514	1114	2.16
C	2.80	3.90	3.20	3	argilla-argilla limosa	24.0			0.00	0.19	0.40	119	56	19	0.87	0.87	1536	1136	2.28
D	3.90	4.60	2.06	5	sabbia limosa-limo sabbioso	36.4	32.7	44.6			0.35	301	446	97	8.36	3.41	1732	1332	
E	4.60	6.00	3.00	3	argilla-argilla limosa	23.7			0.01	0.33	0.40	160	93	31	1.37	1.37	1621	1221	2.59
F	6.00	9.80	3.08	3	argilla-argilla limosa	23.6			0.00	0.28	0.40	147	91	30	1.33	1.33	1601	1201	1.69
G	9.80	10.30	2.29	5	sabbia limosa-limo sabbioso	34.0	32.2	28.3			0.32	346	252	85	3.06	1.38	1750	1350	
H	10.30	12.70	2.72	4	limo argilloso-argilla limosa	26.9			0.09	0.88	0.37	323	198	75	2.67	2.25	1756	1356	3.16
I	12.70	15.00	2.58	5	sabbia limosa-limo sabbioso	28.0	26.8	21.9			0.35	409	227	99	3.03	2.15	1812	1412	3.51
J	15.00	16.50	2.99	3	argilla-argilla limosa	23.6			0.00	0.65	0.40	303	201	67	2.58	2.58	1736	1336	1.87
K	16.50	17.00	2.18	5	sabbia limosa-limo sabbioso	35.4	32.6	37.9			0.33	523	347	148	5.30	2.29	1819	1419	

**VALORI MEDI**

UNITA' GEOTECNICA	CPT 2		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma'$ valori medie	$\gamma'_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/mc	kg/mc	
A	0.00	0.70	2.51	5	sabbia limosa-limo sabbioso	30.0	28.0	31.2			0.29	337	265	83	4.80	2.29	1785	1385	52.98
B	0.70	2.80	3.54	3	argilla-argilla limosa	21.0			0.02	0.11	0.28	110	40	13	0.54	0.54	1514	1114	2.16
C	2.80	3.90	3.20	3	argilla-argilla limosa	24.2			0.01	0.21	0.40	123	58	19	0.91	0.91	1536	1136	2.28
D	3.90	4.60	2.06	5	sabbia limosa-limo sabbioso	36.8	32.8	47.4			0.35	314	485	106	9.84	3.94	1732	1332	
E	4.60	6.00	3.00	3	argilla-argilla limosa	24.0			0.03	0.36	0.40	166	98	33	1.45	1.45	1621	1221	2.59
F	6.00	9.80	3.08	3	argilla-argilla limosa	23.7			0.00	0.29	0.40	149	92	31	1.36	1.36	1601	1201	1.69
G	9.80	10.30	2.29	5	sabbia limosa-limo sabbioso	34.4	32.4	31.1			0.32	357	283	92	3.71	1.64	1750	1350	
H	10.30	12.70	2.72	4	limo argilloso-argilla limosa	27.7			0.13	0.95	0.37	339	211	80	2.80	2.46	1756	1356	3.16
I	12.70	15.00	2.58	5	sabbia limosa-limo sabbioso	29.8	28.0	28.6			0.35	470	269	123	3.77	2.67	1812	1412	3.51
J	15.00	16.50	2.99	3	argilla-argilla limosa	23.7			0.00	0.67	0.40	313	208	69	2.63	2.63	1736	1336	1.87
K	16.50	17.00	2.18	5	sabbia limosa-limo sabbioso	35.5	32.6	38.7			0.33	529	358	152	5.58	2.40	1819	1419	

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ANGOLO DI ATTRITO Searly (argille) e Kulhawy Mayne (sabbie)	ANGOLO DI ATTRITO A VOLUME COSTANTE	DENSITA' RELATIVA Tatsuoka 1990	COESIONE DRENVATA	COESIONE NON DRENVATA programma Robertson 2013	COEFFICIENTE DI POISSON Manuale di uso C.D.G.	MODULO DI TAGLIO INIZIALE Robertson 2013	MODULO ELASTICO autori vari	MODULO EDOMETRICO Berasi	Ki di Winkler per piastra di 30cm	Kh di Winkler per pali di diametro 30cm	DENSITA' DEL TERRENO	DENSITA' DEL TERRENO SECCO	OVER CONSOLIDATION RATIO March / SGT 2014
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**VALORI CARATTERISTICI PER PICCOLI VOLUMI**

UNITA' GEOTECNICA	CPT 3		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma$ valori medie	$\gamma_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cmq	daN/cmq		daN/cmq	daN/cmq	daN/cmq	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/m <sup>3</sup>	kg/m <sup>3</sup>	
A	0.00	0.90	2.98	3	argilla-argilla limosa	18.2			0.32	0.18	0.21	166	51	17	1.00	1.00	1771	1371	34.73
B	0.90	1.20	3.43	3	argilla-argilla limosa	18.3			0.06	0.13	0.31	155	57	19	0.67	0.67	1658	1258	4.23
C	1.20	3.00	3.38	3	argilla-argilla limosa	21.2			0.00	0.10	0.40	90	35	12	0.50	0.50	1498	1098	2.02
D	3.00	5.00	3.14	3	argilla-argilla limosa	24.0			0.00	0.18	0.40	102	39	13	0.77	0.77	1511	1111	2.03
E	5.00	6.00	3.00	3	argilla-argilla limosa	22.7			0.00	0.20	0.40	114	51	17	0.98	0.98	1611	1211	2.58
F	6.00	10.00	3.10	3	argilla-argilla limosa	22.6			0.00	0.19	0.40	123	76	25	1.06	1.06	1600	1200	1.66
G	10.00	15.20	2.52	5	sabbia limosa-limo sabbioso	25.2	24.2	19.5			0.33	319	148	70	1.84	0.26	1808	1408	3.81
H	15.20	16.30	3.05	3	argilla-argilla limosa	23.1			0.00	0.46	0.40	233	151	50	2.09	2.09	1699	1299	1.56
I	16.30	17.50	2.95	3	argilla-argilla limosa	22.2			0.00	0.35	0.40	270	161	54	2.11	2.11	1753	1353	1.97
J	17.50	19.30	3.08	3	argilla-argilla limosa	22.1			0.00	0.40	0.40	237	138	46	2.11	2.11	1726	1326	1.53
K	19.30	20.00	2.87	4	limo argilloso-argilla limosa	23.7			0.00	0.84	0.40	389	255	85	3.18	3.18	1788	1388	2.26

**VALORI CARATTERISTICI PER GRANDI VOLUMI**

UNITA' GEOTECNICA	CPT 3		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma$ valori medie	$\gamma_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cmq	daN/cmq		daN/cmq	daN/cmq	daN/cmq	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/m <sup>3</sup>	kg/m <sup>3</sup>	
A	0.00	0.90	2.98	3	argilla-argilla limosa	20.3			0.42	0.51	0.21	276	138	46	1.88	1.88	1771	1371	34.73
B	0.90	1.20	3.43	3	argilla-argilla limosa	18.8			0.10	0.17	0.31	174	69	23	0.81	0.81	1658	1258	4.23
C	1.20	3.00	3.38	3	argilla-argilla limosa	22.6			0.01	0.13	0.40	104	42	14	0.62	0.62	1498	1098	2.02
D	3.00	5.00	3.14	3	argilla-argilla limosa	24.6			0.00	0.22	0.40	113	49	16	0.92	0.92	1511	1111	2.03
E	5.00	6.00	3.00	3	argilla-argilla limosa	24.0			0.01	0.33	0.40	154	86	29	1.37	1.37	1611	1211	2.58
F	6.00	10.00	3.10	3	argilla-argilla limosa	23.3			0.00	0.27	0.40	145	92	31	1.30	1.30	1600	1200	1.66
G	10.00	15.20	2.52	5	sabbia limosa-limo sabbioso	31.0	29.3	27.7			0.33	423	247	106	3.28	1.98	1808	1408	3.81
H	15.20	16.30	3.05	3	argilla-argilla limosa	23.8			0.00	0.52	0.40	260	171	57	2.26	2.26	1699	1299	1.56
I	16.30	17.50	2.95	3	argilla-argilla limosa	23.9			0.00	0.70	0.40	327	213	71	2.72	2.72	1753	1353	1.97
J	17.50	19.30	3.08	3	argilla-argilla limosa	23.6			0.00	0.57	0.40	298	187	62	2.49	2.49	1726	1326	1.53
K	19.30	20.00	2.87	4	limo argilloso-argilla limosa	25.0			0.00	1.04	0.40	412	283	94	3.45	3.45	1788	1388	2.26

**VALORI MEDI**

UNITA' GEOTECNICA	CPT 3		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma$ valori medie	$\gamma_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cmq	daN/cmq		daN/cmq	daN/cmq	daN/cmq	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/m <sup>3</sup>	kg/m <sup>3</sup>	
A	0.00	0.90	2.98	3	argilla-argilla limosa	21.0			0.44	0.61	0.21	308	164	55	2.14	2.14	1771	1371	34.73
B	0.90	1.20	3.43	3	argilla-argilla limosa	19.1			0.12	0.19	0.31	184	75	25	0.88	0.88	1658	1258	4.23
C	1.20	3.00	3.38	3	argilla-argilla limosa	22.8			0.01	0.14	0.40	106	43	14	0.64	0.64	1498	1098	2.02
D	3.00	5.00	3.14	3	argilla-argilla limosa	24.7			0.00	0.22	0.40	114	50	17	0.94	0.94	1511	1111	2.03
E	5.00	6.00	3.00	3	argilla-argilla limosa	24.3			0.02	0.36	0.40	163	95	32	1.46	1.46	1611	1211	2.58
F	6.00	10.00	3.10	3	argilla-argilla limosa	23.4			0.00	0.28	0.40	147	93	31	1.32	1.32	1600	1200	1.66
G	10.00	15.20	2.52	5	sabbia limosa-limo sabbioso	31.6	29.8	28.8			0.33	434	257	110	3.43	2.16	1808	1408	3.81
H	15.20	16.30	3.05	3	argilla-argilla limosa	23.9			0.00	0.53	0.40	265	175	58	2.29	2.29	1699	1299	1.56
I	16.30	17.50	2.95	3	argilla-argilla limosa	24.3			0.00	0.77	0.40	340	225	75	2.85	2.85	1753	1353	1.97
J	17.50	19.30	3.08	3	argilla-argilla limosa	23.8			0.00	0.60	0.40	307	194	65	2.55	2.55	1726	1326	1.53
K	19.30	20.00	2.87	4	limo argilloso-argilla limosa	25.4			0.00	1.10	0.40	419	291	97	3.53	3.53	1788	1388	2.26



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ANGOLO DI ATTRITO Searly (argille) e Kulhawy Mayne (sabbie)	ANGOLO DI ATTRITO A VOLUME COSTANTE	DENSITA' RELATIVA Tatsuoka 1990	COESIONE DRENATA	COESIONE NON DRENATA programma Robertson 2013	COEFFICIENTE DI POISSON Manuale di Leco C.D.G.	MODULO DI TAGLIO INIZIALE Robertson 2013	MODULO ELASTICO autori vari	MODULO EDOMETRICO Benassi	Ki di Winkler per piastra di 30cm	Kh di Winkler per pali di diametro 30cm	DENSITA' DEL TERRENO	DENSITA' DEL TERRENO SECCO	OVER CONSOLIDATION RATIO Marchi / SGT 2014
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**VALORI CARATTERISTICI PER PICCOLI VOLUMI**

UNITA' GEOTECNICA	CPT 4		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma'$ valori medie	$\gamma'_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/mc	kg/mc	
A	0.00	1.00	2.48	5	sabbia limosa-limo sabbioso	26.7	24.7	30.4			0.30	274	182	50	0.00	1.05	1889	1489	28.16
B	1.00	3.00	3.17	3	argilla-argilla limosa	22.2			0.00	0.15	0.39	74	19	6	0.61	0.61	1465	1065	2.43
C	3.00	5.10	2.67	4	limo argilloso-argilla limosa	25.0			0.12	0.41	0.35	118	45	15	0.99	0.38	1615	1215	4.43
D	5.10	5.90	2.19	5	sabbia limosa-limo sabbioso	33.9	32.2	27.7			0.33	257	225	59	1.93	1.00	1736	1336	
E	5.90	9.00	1.92	6	sabbia-sabbia limosa	36.7	32.8	47.1			0.36	389	453	123	7.88	3.37	1807	1407	
F	9.00	10.00	2.98	3	argilla-argilla limosa	23.4			0.00	0.25	0.40	136	62	21	1.34	1.34	1636	1236	1.87
G	10.00	11.10	2.38	5	sabbia limosa-limo sabbioso	31.8	30.3	25.0			0.31	402	188	95	2.00	0.88	1826	1426	5.58
H	11.10	13.00	2.87	4	limo argilloso-argilla limosa	23.6			0.00	0.33	0.40	195	98	33	1.78	1.78	1713	1313	2.36
I	13.00	16.90	2.08	5	sabbia limosa-limo sabbioso	35.0	32.5	35.2			0.34	483	292	131	2.25	1.32	1867	1467	
J	16.90	18.30	2.90	4	limo argilloso-argilla limosa	23.9			0.00	0.58	0.40	267	134	45	2.55	2.55	1698	1298	1.73
K	18.30	18.90	2.65	4	limo argilloso-argilla limosa	23.0			0.00	1.01	0.39	325	153	52	3.04	2.20	1806	1406	2.72

**VALORI CARATTERISTICI PER GRANDI VOLUMI**

UNITA' GEOTECNICA	CPT 4		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma'$ valori medie	$\gamma'_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/mc	kg/mc	
A	0.00	1.00	2.48	5	sabbia limosa-limo sabbioso	33.0	29.6	43.0			0.30	464	299	143	11.17	3.33	1889	1489	28.16
B	1.00	3.00	3.17	3	argilla-argilla limosa	24.9			0.02	0.20	0.39	102	36	12	0.76	0.76	1465	1065	2.43
C	3.00	5.10	2.67	4	limo argilloso-argilla limosa	28.8			0.26	0.58	0.35	180	113	33	1.67	1.28	1615	1215	4.43
D	5.10	5.90	2.19	5	sabbia limosa-limo sabbioso	35.2	32.6	36.8			0.33	306	341	85	5.31	2.27	1736	1336	
E	5.90	9.00	1.92	6	sabbia-sabbia limosa	37.8	32.7	54.9			0.36	461	592	174	14.85	5.66	1807	1407	
F	9.00	10.00	2.98	3	argilla-argilla limosa	24.6			0.00	0.43	0.40	187	107	36	1.76	1.76	1636	1236	1.87
G	10.00	11.10	2.38	5	sabbia limosa-limo sabbioso	34.2	31.9	33.2			0.31	461	281	121	4.27	1.90	1826	1426	5.58
H	11.10	13.00	2.87	4	limo argilloso-argilla limosa	25.1			0.01	0.72	0.40	277	175	58	2.54	2.54	1713	1313	2.36
I	13.00	16.90	2.08	5	sabbia limosa-limo sabbioso	36.9	32.8	48.5			0.34	618	479	206	11.18	4.37	1867	1467	
J	16.90	18.30	2.90	4	limo argilloso-argilla limosa	25.7			0.00	0.79	0.40	301	175	58	2.81	2.81	1698	1298	1.73
K	18.30	18.90	2.65	4	limo argilloso-argilla limosa	25.3			0.00	1.25	0.39	409	234	84	3.50	3.03	1806	1406	2.72

**VALORI MEDI**

UNITA' GEOTECNICA	CPT 4		Ic	ZONA	LITOTIPO PREVALENTE	$\phi$	$\phi_{cv}$	Dr	C'	Cu	P valori medie	Go	E	M	Ki	Kh	$\gamma'$ valori medie	$\gamma'_s$ valori medie	OCR valori medie
	DA	A				°	°	%	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/cm <sup>2</sup>	kg/mc	kg/mc	
A	0.00	1.00	2.48	5	sabbia limosa-limo sabbioso	34.7	30.8	46.6			0.30	512	328	167	14.18	3.91	1889	1489	28.16
B	1.00	3.00	3.17	3	argilla-argilla limosa	25.3			0.03	0.20	0.39	106	38	13	0.78	0.78	1465	1065	2.43
C	3.00	5.10	2.67	4	limo argilloso-argilla limosa	29.5			0.30	0.63	0.35	192	126	37	1.80	1.45	1615	1215	4.43
D	5.10	5.90	2.19	5	sabbia limosa-limo sabbioso	35.6	32.6	39.4			0.33	319	374	93	6.26	2.63	1736	1336	
E	5.90	9.00	1.92	6	sabbia-sabbia limosa	38.0	32.7	55.8			0.36	469	607	180	15.61	5.91	1807	1407	
F	9.00	10.00	2.98	3	argilla-argilla limosa	24.9			0.01	0.46	0.40	198	117	39	1.86	1.86	1636	1236	1.87
G	10.00	11.10	2.38	5	sabbia limosa-limo sabbioso	34.8	32.3	35.3			0.31	475	303	127	4.82	2.14	1826	1426	5.58
H	11.10	13.00	2.87	4	limo argilloso-argilla limosa	25.3			0.04	0.78	0.40	289	187	62	2.65	2.65	1713	1313	2.36
I	13.00	16.90	2.08	5	sabbia limosa-limo sabbioso	37.2	32.8	50.1			0.34	633	501	215	12.23	4.73	1867	1467	
J	16.90	18.30	2.90	4	limo argilloso-argilla limosa	26.0			0.00	0.83	0.40	307	182	61	2.86	2.86	1698	1298	1.73
K	18.30	18.90	2.65	4	limo argilloso-argilla limosa	27.3			0.05	1.48	0.39	480	303	112	3.89	3.73	1806	1406	2.72



## **6. RELAZIONE SULLA MODELLAZIONE SISMICA CONCERNENTE LA “PERICOLOSITÀ SISMICA DI BASE” DEL SITO DI COSTRUZIONE**

La classificazione sismica dell'area in esame è basata sui contenuti delle NTV vigenti ed è stata individuata sulla base di n.2 misure sismiche passive locali, di tipo H/V (di cui si dirà oltre) realizzata tramite apparecchiatura tromografica TROMINO © di costruzione MICROMED (e restituzione dei dati mediante apposito software GRILLA ©- MICROMED).

### **6.1 DESCRIZIONE DELLA METODOLOGIA TROMOGRAFICA E HVSR E SCOPO DELL'INDAGINE**

La metodologia tromografica si basa sulla misura diretta delle frequenze di naturale vibrazione dei suoli (e/o di altri oggetti poggianti direttamente o indirettamente sul suolo), sfruttando in pratica l'effetto pendolo. Nel dominio della frequenza vengono coinvolti quattro spettri rappresentati dalle componenti orizzontali e verticali del moto in superficie (HS e VS) e alla base dello strato (HB e VB).

La tecnica di Nakamura si basa sulle seguenti ipotesi: le sorgenti dei microtremori sono locali, trascurando qualsiasi contributo dovuto a sorgenti profonde; le sorgenti dei microtremori in superficie non influenzano i microtremori alla base; la componente verticale del moto non risente di effetti di amplificazione locale.

Sotto queste ipotesi, il rapporto fra le componenti verticali del moto in superficie ed alla base contiene solo termini delle sorgenti locali  $AS(f)$  e delle sorgenti alla base  $AB(f)$ , ed è pari a:

$$R_v(f) = V_s(f)/V_b(f) = A_s(f)/A_b(f).$$

Mentre il rapporto fra l'ampiezza dello spettro della componente orizzontale del moto in superficie (HS) e alla base dello strato (HB), contiene oltre che il termine di sorgente anche il termine di amplificazione di sito in superficie  $S(f)$  e può essere espresso nel seguente modo:

$$R_h(f) = H_s(f)/H_b(f) = [A_s(f) * S_s(f)] / A_b(f).$$

Per rimuovere l'effetto di sorgente dai segnali, Nakamura divide i due rapporti  $R$  fra loro ottenendo così la seguente espressione per la funzione trasferimento di sito:

$$R_h(f)/R_v(f) = S_s(\omega) = H_s(f)/H_b(f) * V_b(f)/V_s(f).$$

Ipotizzando infine che alla base dei sedimenti l'ampiezza spettrale della componente verticale e di quella orizzontale siano uguali e cioè:

$$V_b(f)/H_b(f) = 1.$$

Il fattore di amplificazione del moto orizzontale in superficie potrà essere valutato direttamente nel seguente modo:

$$S(f) = H_s(f)/V_s(f).$$

Le varie ipotesi sono state verificate dallo stesso Nakamura (1989) con misure di microtremori in superficie e in pozzo.

Le stesse assunzioni sono state verificate anche da altri autori confrontando i risultati ottenuti con modelli di propagazione di onde di Rayleigh, modelli di propagazione 1-D di onde S e con modelli di generazione sintetica di rumore. Le conclusioni a cui sono giunti gli studi suddetti sono che il picco visibi-

le nei rapporti H/V ottenuti con il rumore simulato è indipendente dalle caratteristiche della sorgente del rumore e che dipende invece fortemente dalla stratigrafia del terreno.

Tale picco è inoltre ben correlato con la frequenza fondamentale di risonanza del terreno soggetto alla propagazione di onde S verticali e con il picco fondamentale delle curve di dispersione delle onde di Rayleigh.

La misura è stata eseguita con un apparecchio portatile compatto (TROMINO MICROMED) che alloggia in un unico contenitore rigido metallico tre sensori sismometrici, un digitalizzatore a 24 bit ed il sistema di archiviazione su flash memory. Tutte le operazioni descritte sono state fatte prevalentemente in campagna, mediante un programma applicativo appositamente implementato. Questo ha permesso di avere già al sito la possibilità di verificare le misure effettuate ed eventualmente ripeterle. La misura di microtremori è infatti soggetta ad influenze ambientali (vento, pioggia, copertura artificiale dei terreni, ecc.): per una descrizione dettagliata dei problemi legati alla corretta effettuazione delle misure si veda Mucciarelli (1998).

Di seguito si riporta una succinta bibliografia di riferimento circa metodologia, utilizzo e restituzione della metodologia tromografica: Mucciarelli, M. (1998). Reliability and applicability range of Nakamura's technique using microtremors: an experimental approach, J. Earthquake Engin., Vol. 2, n. 4, 1-14. Nakamura, Y. (1989). A method for dynamic characteristics estimation of subsurface using microtremor on the ground surface. QR Railway Tech. Res. Inst. 30, 1.

Lo scopo della misura eseguita è l'individuazione dei seguenti parametri caratteristici dell'area in esame:

- Vs e conseguente categoria sismica dei suoli di fondazione, secondo i contenuti del D.M. - N.T.C.;
- Frequenza propria (di vibrazione) dei suoli di fondazione.

Nel prossimo paragrafo si riportano anche gli altri parametri di caratterizzazione sismica per l'area in esame, come "richiesti" dalle N.T.C..

L'indagine tromografica si è appoggiata alle conoscenze stratigrafiche locali derivanti dall'esecuzione dell'indagine penetrometrica statica. Ciò è indispensabile data la natura della strumentazione utilizzata e date le possibilità offerte dalle esperienze di Nakamura (et Alii), di cui si è sopra già ampiamente riportato.

È importante far osservare come uno strumento tromografico sia l'unica strumentazione in grado di misurare la frequenza propria di oscillazione dei terreni. Da tali dati si possono poi ricostruire tutte le altre componenti caratterizzanti dal punto di vista sismico i terreni di un'area (e sopra indicati).

La possibilità di risalire ai dati di Vs30 conoscendo le frequenze tipiche di un suolo e gli spessori (profondità) dei suoi riflettori sismici, discende dalle esperienze di Nakamura e del derivato metodo HSRV precedentemente descritto.

Il metodo di indagine utilizzato presuppone alcune approssimazioni legate ad esempio al fatto che le velocità di propagazione delle onde sismiche provocate aumentano dall'alto verso il basso (per questo il metodo consente la determinazione delle velocità intese come medie del volume di terra indagato non avendo un grado di definizione elevato); le velocità Vs così misurate sono comunque significative,

trattandosi pur sempre di una misura diretta. Nei grafici  $H/V - f$ , che verranno in seguito riportati, si individuano le varie frequenze tipiche dei terreni di fondazione, dato di notevole importanza per una accurata progettazione delle strutture da realizzarsi sull'area in esame.

Soprattutto in considerazione della tipologia strutturale da realizzarsi, si dovranno evitare accoppiamenti fra le modalità di vibrazione delle strutture (prevedibili in fase di progettazione) e le modalità di vibrazione dei terreni di fondazione, di cui sopra.

## **6.2 RISULTATI DELL'INDAGINE SISMICA**

La misura sismica di tipo tromografico ha individuato valori di **Vs** pari a **214 m/sec (TR1)** e **235 m/s (TR2)**.

Le misure individuano quindi i terreni di fondazione come classificabili nella **categoria** di riferimento **C**. Tale categoria è descritta come: "Depositi di terreni a grana grossa mediamente addensati o terreni a grana fine mediamente consistenti, con spessori superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di Vs30 compresi fra 180 e 360 m/s (ovvero  $15 < N_{SPT} < 50$  nei terreni a grana grossa e  $70 < Cu_{30} < 250$  KPa (0,70- 2,50 Kg/cm<sup>2</sup> circa).

Pertanto di seguito si assumerà la categoria C proposta dalle indagini sismiche.

Relativamente all'attendibilità del suddetto valore di Vs, è comunque chiaro che ogni metodologia d'indagine che attiene al "campo" geologico (ancor più se si tratta di un metodo geofisico) è normalmente/fisiologicamente "afflitta" da una aliquota di imprecisione/indeterminatezza e poiché per il metodo in oggetto Autori quali S. Castellaro riportano valori pari al +/-15/20%, sarà il caso di valutare l'influenza di tale errore sui valori sopra riportati.

In relazione quindi ai valori di Vs, questi potrebbero essere compresi fra 171 m/s nel peggiore dei casi (e quindi Categoria D) circa e 282 m/s circa (e quindi sempre Categoria C).

Pertanto di seguito si assumerà la categoria C proposta (ferma restando la possibilità di una differente valutazione da parte del Progettista, nel qual caso quanto riportato all'apposito paragrafo di individuazione dei parametri sismici perderà ogni validità).

## **6.3 ULTERIORI ELEMENTI DI CARATTERIZZAZIONE**

Si è provveduto a caratterizzare l'area d'indagine secondo i contenuti delle N.T.C., tale caratterizzazione viene riportata di seguito, fra gli altri si è utilizzato il Software Geostru PS ® (free- share disponibile on- line).

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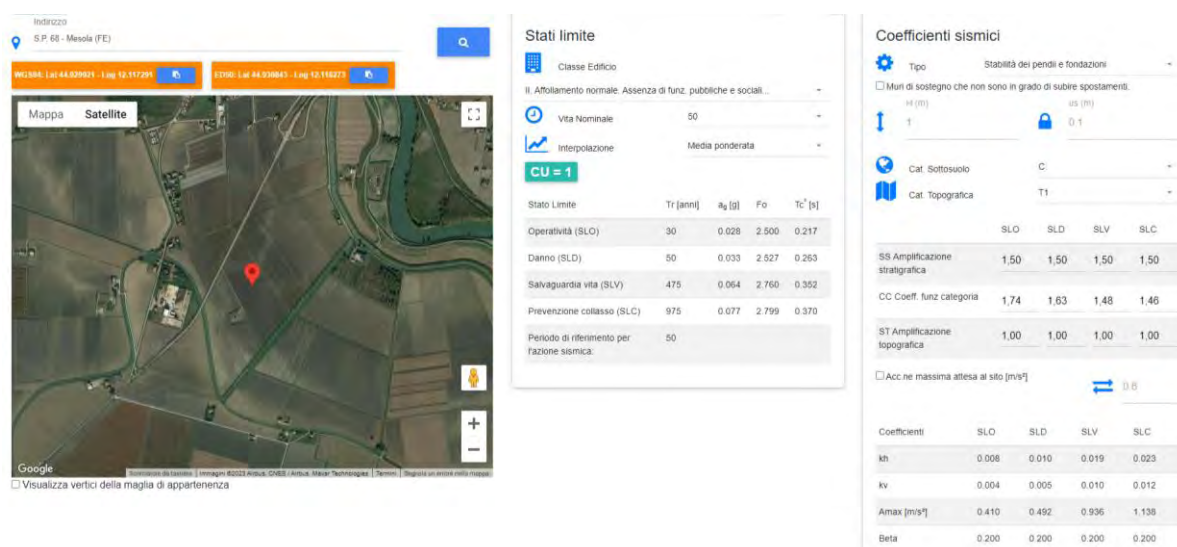


Figura 7 - Ubicazione area ed individuazione dei parametri sismici.

## 6.4 STORIA SISMICA LOCALE

L'Emilia-Romagna è interessata da una sismicità che può essere definita media relativamente alla sismicità nazionale, con terremoti storici di magnitudo massima compresa tra 5,50 e 6 e intensità massime risentite del IX-X grado della scala MCS. I maggiori terremoti si sono verificati nel settore sud-orientale, in particolare nell'Appennino romagnolo e lungo la costa riminese. Altri settori interessati da sismicità frequente ma generalmente di minore energia sono il margine appenninico-padano tra la Val d'Arda e Bologna, l'arco della dorsale ferrarese e il crinale appenninico. Tale sismicità è dovuta al processo ancora attivo di costruzione della catena appenninica. In particolare risultano attivi i sovrascorimenti sepolti che danno luogo agli archi di Piacenza- Parma, Reggio Emilia e di Ferrara. (Boccaletti et al., 2004).

A seguito del terremoto del Molise del 2002, è stata elaborata una nuova Mappa di pericolosità sismica del territorio nazionale e la progettazione in zona sismica non è più effettuata secondo zone di pari sismicità ma viene effettuata a partire dai valori assoluti di scuotimento del suolo attesi secondo la nuova mappa di pericolosità sismica (che verranno riportate alle figure seguenti).

L'Intensità Massima  $I_{Max}$  attesa è pari a 9. L'area si trova in prossimità Zona Sismogenetica (ZS9) di riferimento 912, come verrà illustrato di seguito.

Il territorio del Comune di Mesola è correttamente classificato come zona sismica 3 e ad esso (per la maggior parte) è associato un valore di accelerazione massima al suolo compreso tra 0,050 e 0,075g.



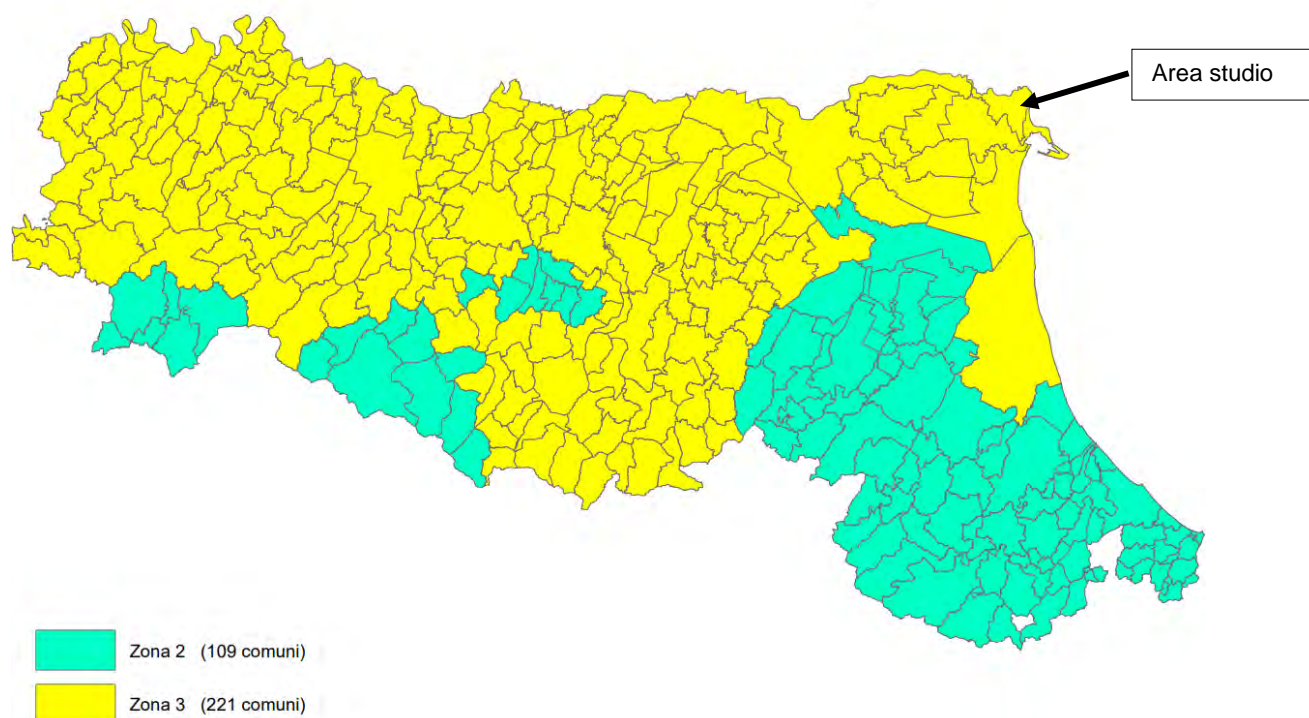


Figura 8 – Classificazione sismica del territorio regionale secondo l'OPCM 3274/2003. Il Comune di Mesola viene attribuito alla zona 3.

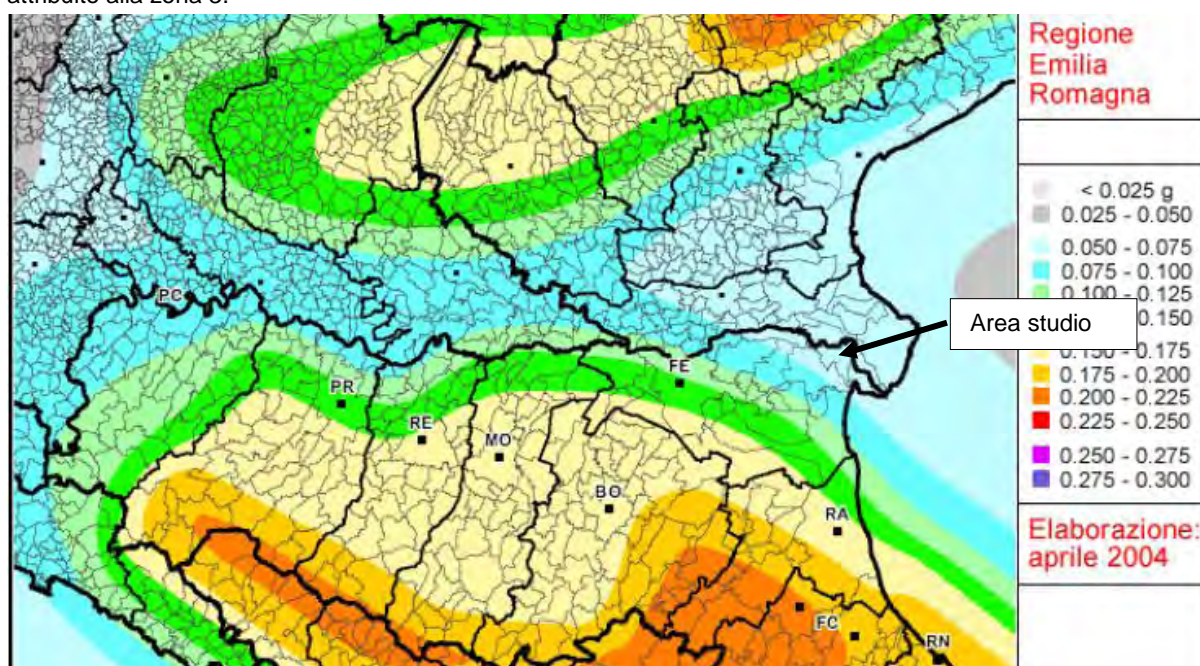


Figura 9 – Mappa di pericolosità sismica della Regione Emilia-Romagna espressa in termini di accelerazione massima al suolo con probabilità di eccedenza del 10% in 50 anni riferita a suoli rigidi (Cat. A). All'area del Comune di Mesola è associata un'accelerazione compresa tra 0,050 e 0,075 g. (Meletti & Montalbo, 2007).

Di seguito si riporta una mappa degli epicentri dei terremoti avvenuti nella Regione Emilia-Romagna dal 1000 ad oggi. Si può osservare che la maggior sismicità è concentrata nella zona dell'Appennino Romagnolo. Relativamente ai pressi (molto allargati invero) dell'area in esame non si osservano eventi sismici di magnitudo rilevante.

La città di Mesola, in particolare, è stata colpita dai seguenti terremoti all'interno della medesima ZS912:

- nel 1895 – Villanova Marchesana (Intensità 4-5,  $M 3.98 \pm 0.56$ );
- nel 2002 – Ferrarese (Intensità 4,  $M 4.21 \pm 0.10$ )

La magnitudo attesa per la ZS 912 è pari a  $M=6,1$  circa, ciò sulla base di considerazioni statistico-probabilistiche (determinazioni tramite il Metodo di Gumbel, 1997) che tengono in considerazione distanza epicentrale degli eventi dall'area in esame e della regressione temporale degli stessi, per le ZS 912/914. Questo valore è molto penalizzante per l'area in esame, ricordando le magnitudo storiche sopra citate e considerando che la scala di misura della magnitudo è logaritmica.

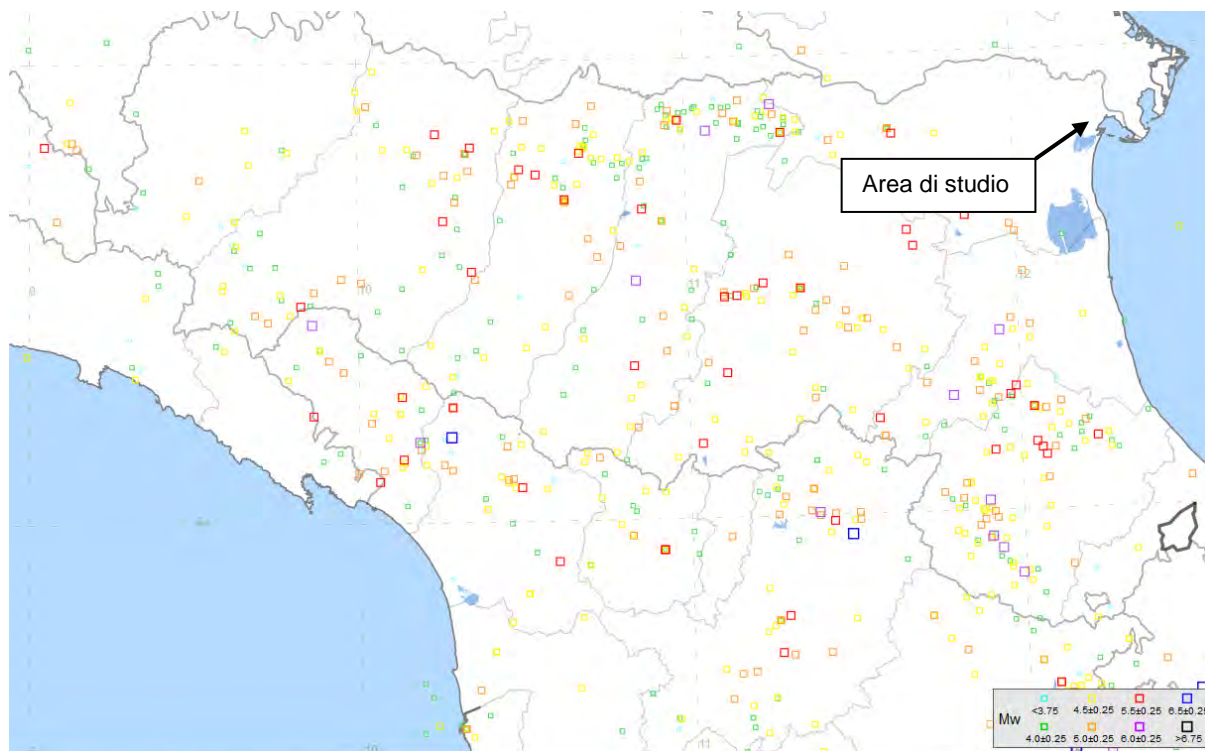


Figura 10 – Mappa degli epicentri dei terremoti avvenuti in Emilia Romagna dal 1200 ad oggi (CPTI2015).

Dalla consultazione del Catalogo Parametrico dei Terremoti Italiani CPTI15, l'area del Comune Mesola ha registrato nel tempo gli eventi sismici riportati nelle figure di seguito.



Figura 11 – Storia sismica del Comune di Mesola . L'Intensità Sismica (Is) massima registrata è 4.



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Effects	Reported earthquakes									
Int.	Year	Mo	Da	Ho	Mi	Se	Epicentral area	NMDP	Io	Mw
3-4	1895	05	25	12	42		Villanova Marchesana	11	4-5	3.98
NF	1898	01	16	13	10		Romagna settentrionale	110	6	4.59
NF	1898	03	09	11	43		Romagna settentrionale	68	6	4.59
NF	1986	12	06	17	07	1	Ferrarese	604	6	4.43
NF	1987	05	02	20	43	5	Reggiano	802	6	4.71
3-4	1989	09	13	21	54	0	Prealpi Vicentine	779	6-7	4.85
4	1998	03	26	16	26	1	Appennino umbro-marchigiano	409		5.26
3	2002	11	02	10	57	4	Ferrarese	79	4	4.21

Figura 12 – Elenco dei terremoti per il Comune di Mesola

Il territorio del comune di Mesola, è stato colpito dal terremoto del 1895 (IS= 4-5, Mw 3.98 ± 0.56); per tale evento il valore di IS è 3-4.

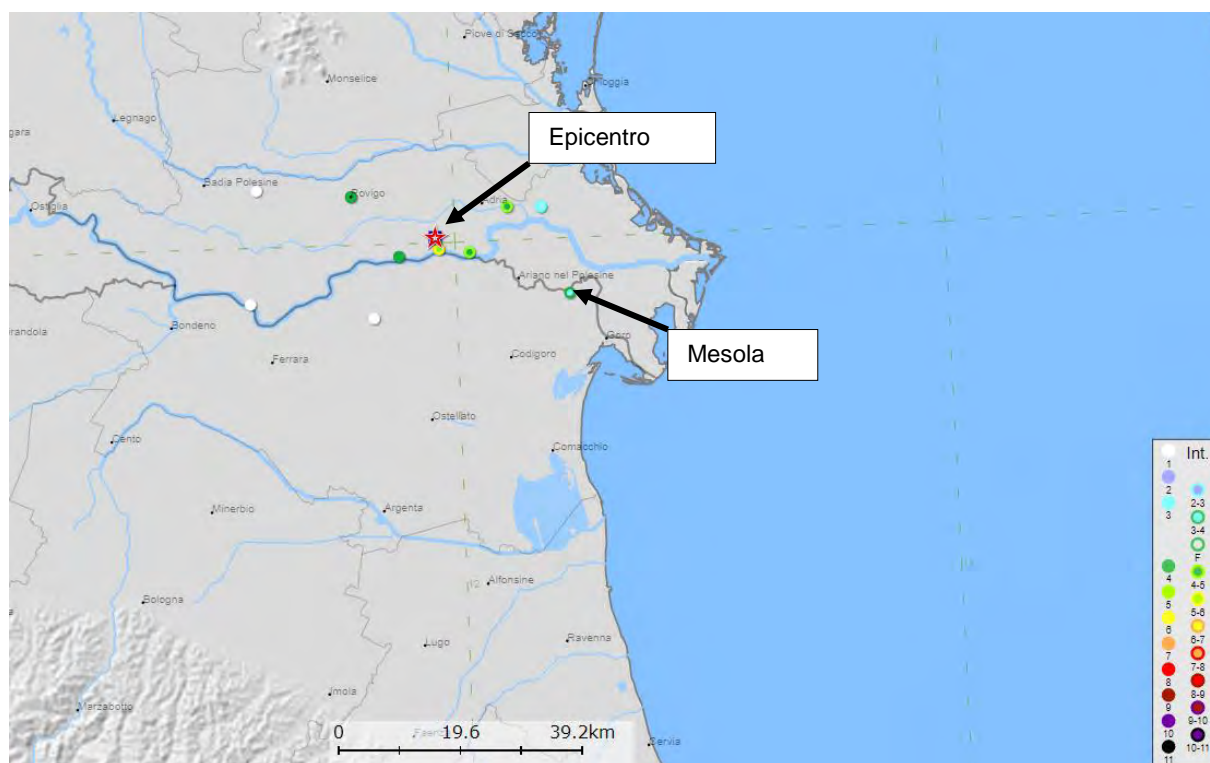


Figura 13 – distribuzione dei risentimenti dell'evento del 1895 – Villanova Marchesana in scala libera. Come tratto dal sito dell'I.N.G.V. (DBMI15).

Durante il terremoto del 2002 – Ferrarese (IS 4, M 4.21±0,10), il Comune di Mesola ha avuto un valore di IS di 3.

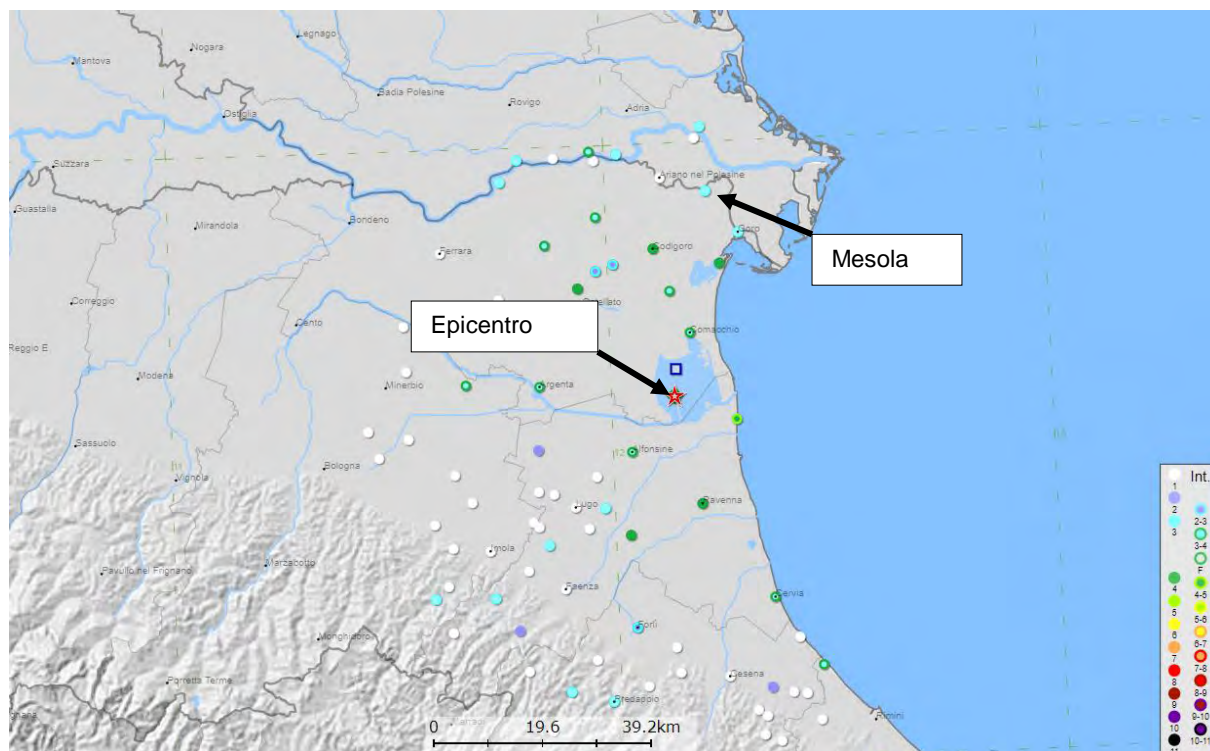


Figura 14 – distribuzione dei risentimenti dell'evento del 1781 – Faentino in scala libera. Come tratto dal sito dell'I.N.G.V. (DBMI15).

Evidentemente occorrerà aggiungere come gli eventi sismici del 20-29/05/2012, nonché la prolungata sequenza sismica annessa, abbiano profondamente “aggiornato” la sismicità della Pianura Padana.

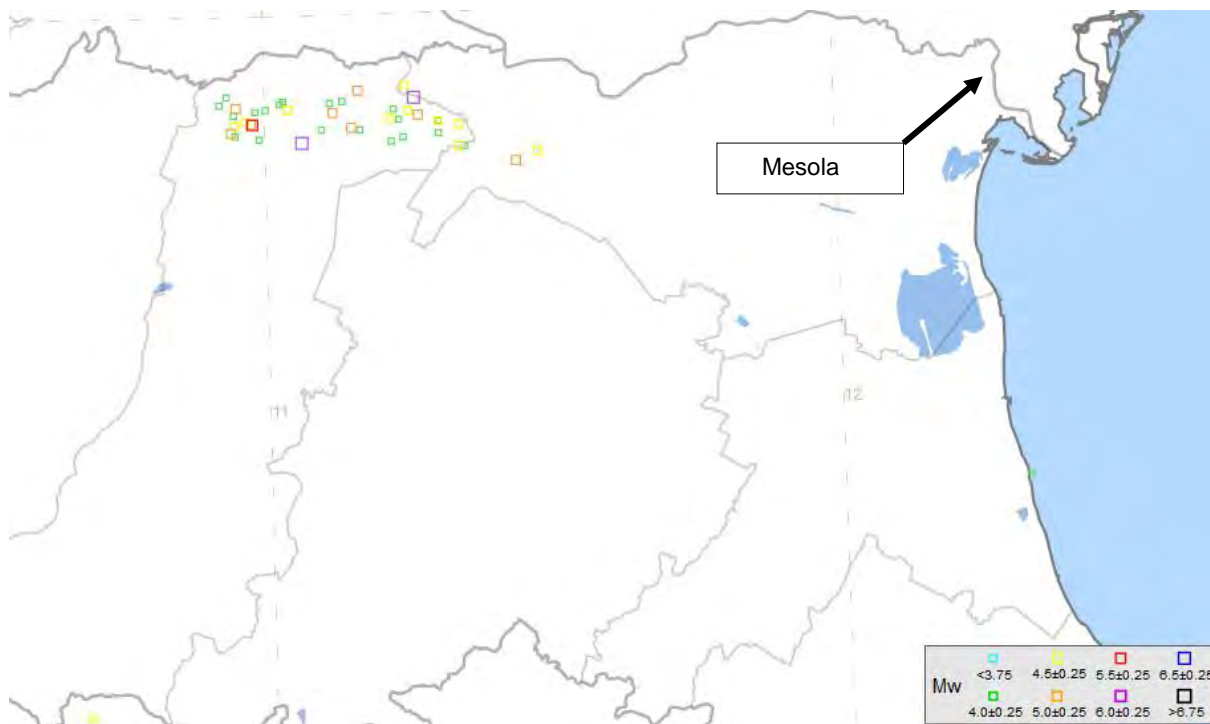


Figura 15 – Sismicità recente in Emilia-Romagna in scala libera



## 6.5 DISAGGREGAZIONE STATISTICO- PROBABILISTICA DEI DATI SISMICI

Come visto nel capitolo precedente, il territorio del Comune di Mesola non è stato sede di epicentri di eventi sismici e si è già potuta constatare la complessità geologica profonda, caratterizzata da sovrascorrimenti riattivati nel territorio della provincia di Ferrara.

Da una analisi di disaggregazione statistico- probabilistica dei dati sismici relativi a distanza e valori di magnitudo ed avente come riferimento l'area in esame (analisi che verrà di seguito riportata) si può evincere che, con un tempo di ritorno di 50 anni:

1. il valore di M avente localmente maggiori probabilità di ripetersi è pari a 5,00 e ha una probabilità di accadimento del 9-11% tra 20-30 km;
2. i valori di M =5,50 hanno una probabilità di accadimento di 5-7% tra 20-30 km;
3. i valori di M =4,50 hanno una probabilità di accadimento di 4-5% tra 20-30 km;
4. i valori di M=6 ha una probabilità di accadimento del 3-4% tra 20-30 km;

Si ricorda l'evento con magnitudo massima del 2002 con un valore di M pari a 4,21.

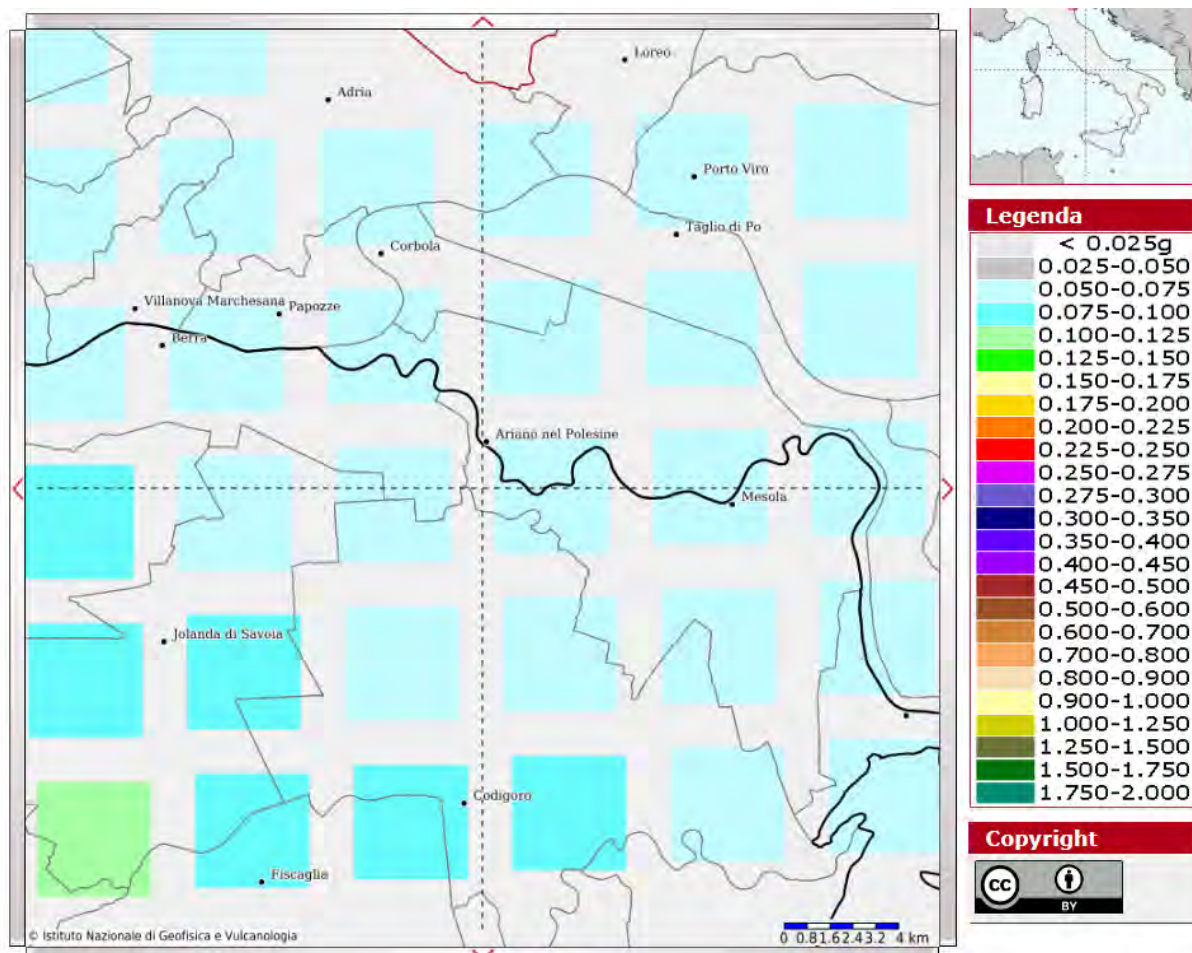


Figura 16 – Pericolosità sismica in prossimità dell'area di studio

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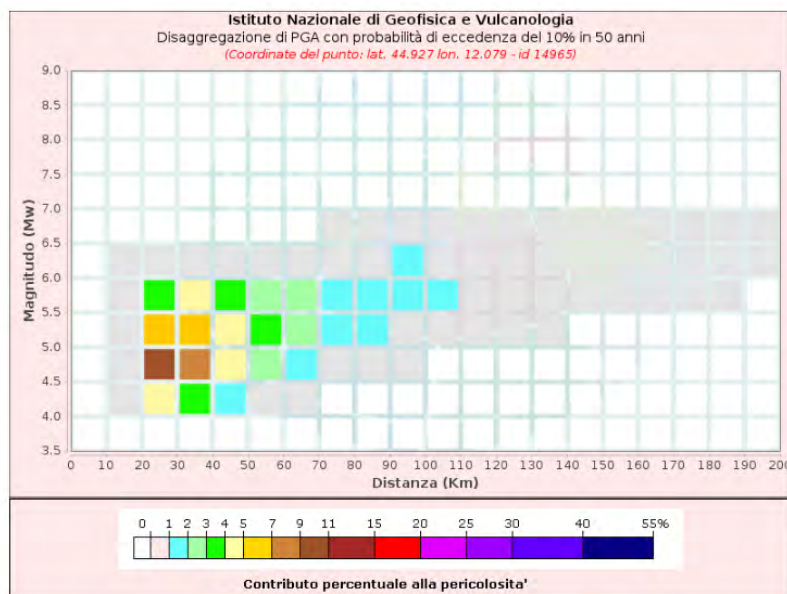


Figura 17 – Probabilità del verificarsi di un evento sismico in prossimità dell'area di studio

Disaggregazione di PGA con probabilità di eccedenza del 10% in 50 anni (Coordinate del punto: lat. 44.927 lon. 12.079 - id 14965)											
Distanza (Km)	Magnitudo (Mw)										
	3.5- 4.0	4.0- 4.5	4.5- 5.0	5.0- 5.5	5.5- 6.0	6.0- 6.5	6.5- 7.0	7.0- 7.5	7.5- 8.0	8.0- 8.5	8.5- 9.0
0-10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10-20	0.0000	0.0354	0.0679	0.0390	0.0185	0.0021	0.0000	0.0000	0.0000	0.0000	0.0000
20-30	0.0000	4.5400	9.8000	6.6200	3.6400	0.4560	0.0000	0.0000	0.0000	0.0000	0.0000
30-40	0.0000	3.1100	8.0300	6.7800	4.5300	0.6380	0.0000	0.0000	0.0000	0.0000	0.0000
40-50	0.0000	1.4700	4.6800	4.8800	3.8800	0.6050	0.0000	0.0000	0.0000	0.0000	0.0000
50-60	0.0000	0.5330	2.4700	3.2000	2.9800	0.5070	0.0000	0.0000	0.0000	0.0000	0.0000
60-70	0.0000	0.0564	1.1500	2.3800	2.3700	0.3130	0.0000	0.0000	0.0000	0.0000	0.0000
70-80	0.0000	0.0000	0.3750	1.6900	1.9700	0.4010	0.0317	0.0000	0.0000	0.0000	0.0000
80-90	0.0000	0.0000	0.1030	1.2400	1.9000	0.8560	0.1280	0.0000	0.0000	0.0000	0.0000
90-100	0.0000	0.0000	0.0072	0.6900	1.5500	1.0100	0.1730	0.0000	0.0000	0.0000	0.0000
100-110	0.0000	0.0000	0.0000	0.2890	1.1100	0.9950	0.1830	0.0000	0.0000	0.0000	0.0000
110-120	0.0000	0.0000	0.0000	0.0908	0.7040	0.9400	0.1860	0.0000	0.0000	0.0000	0.0000
120-130	0.0000	0.0000	0.0000	0.0182	0.4040	0.7430	0.1570	0.0000	0.0000	0.0000	0.0000
130-140	0.0000	0.0000	0.0000	0.0006	0.2070	0.4940	0.1070	0.0000	0.0000	0.0000	0.0000
140-150	0.0000	0.0000	0.0000	0.0000	0.0982	0.3320	0.0754	0.0000	0.0000	0.0000	0.0000
150-160	0.0000	0.0000	0.0000	0.0000	0.0453	0.2340	0.0589	0.0000	0.0000	0.0000	0.0000
160-170	0.0000	0.0000	0.0000	0.0000	0.0228	0.2070	0.0603	0.0000	0.0000	0.0000	0.0000
170-180	0.0000	0.0000	0.0000	0.0000	0.0062	0.1300	0.0426	0.0000	0.0000	0.0000	0.0000
180-190	0.0000	0.0000	0.0000	0.0000	0.0006	0.0790	0.0299	0.0000	0.0000	0.0000	0.0000
190-200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0342	0.0154	0.0000	0.0000	0.0000	0.0000

Valori Medi		
Magnitudo	Distanza	Epsilon
5.26	50.8	1.49

Figura 18 – Probabilità del verificarsi di un evento sismico

## **6.6 SUSCETTIBILITA' ALLA LIQUEFAZIONE DEGLI ORIZZONTI SATURI GRANULARI LOCALMENTE RILEVATI**

Il fenomeno della liquefazione determina una diminuzione della resistenza al taglio e/o della rigidità, nei litotipi granulari, causata dall'aumento di pressione interstiziale in un terreno saturo non coesivo durante lo scuotimento sismico e tale da generare deformazioni permanenti significative o persino l'annullamento degli sforzi efficaci nel terreno. Le Norme Tecniche annesse alla vigente Normativa Sismica (NTA 2018 capitolo 7.11.3.4) permettono di omettere la verifica a liquefazione quando si manifesti almeno una delle seguenti circostanze:

1. accelerazioni massime attese al piano campagna in assenza di manufatti (condizioni di campo libero) minori di 0,1g;
2. profondità media stagionale della falda superiore a 15 m dal piano campagna, per piano campagna sub-orizzontale e strutture con fondazioni superficiali;
3. depositi costituiti da sabbie pulite con resistenza penetrometrica normalizzata  $(N1)_{60} > 30$  oppure  $qc_{1N} > 180$  dove  $(N1)_{60}$  è il valore della resistenza determinata in prove penetrometriche dinamiche (Standard Penetration Test) normalizzata ad una tensione efficace verticale di 100 kPa e  $qc_{1N}$  è il valore della resistenza determinata in prove penetrometriche statiche (Cone Penetration Test) normalizzata ad una tensione efficace verticale di 100 kPa;
4. distribuzione granulometrica esterna alle zone indicate nella Figura 7.11.1(a) nel caso di terreni con coefficiente di uniformità  $U_c < 3,5$  ed in Figura 7.11.1(b) nel caso di terreni con coefficiente di uniformità  $U_c > 3,5$ .

Inoltre secondo l'Ordinanza 3274, 3316 e s.m.i. impongono detta verifica quando *“la falda freatica si trovi in prossimità della superficie (p.c.) ed il terreno di fondazione comprenda **strati estesi o lenti spesse di sabbie sciolte sotto falda**, anche se contenenti una frazione fine limo-argillosa”*.

*“Nel caso di edifici con fondazioni superficiali tale verifica può essere omessa per litotipi suscettibili che si trovino a profondità maggiore di 15 m dal p.c.”*.

*“Tale verifica si può altresì omettere nel caso  $S_a < 0,15$  g e contemporaneamente il litotipo potenzialmente liquefacibile soddisfi almeno una delle seguenti condizioni:*

1. contenuto d'argilla  $> 20\%$  con IP (Indice Plastico)  $> 10$ ;
2. contenuto di limo  $> 35\%$  e  $N_{spt} > 20$ ;
3. frazione fine trascurabile e  $N_{spt} > 25$ ,”

(dove IP =Indice Plastico,  $N_{spt}$  =Resistenza Penetrometrica normalizzata alla prova  $N_{spt}$  in foro)

Da quanto emerso da ricostruzione lito-stratigrafica delle prove eseguite, si rileva la presenza fino a -10,00/-11,00 m dal p.c. di litotipi argillo-limosi (tranne nella prova CPTU4 che vengono rilevati più superficialmente già a -4,00 m dal p.c.) e a seguire una alternanza di litotipi maggiormente sabbiosi e sabbio-limosi, risultati avere un valore di  $F_s$  prossimo a 1, intercalati a livelli argillo-limosi di spessore variabile.

Autori quali Crespellani, Sheriff, Ishibashi ed altri riportano che, per le energie sismiche attese per l'area in esame, uno spessore pari a circa cinque metri di materiale non liquefacibile sovrastante la

lente granulare eventualmente liquefacibile, svolge un'azione di contrasto sufficiente a far sì che gli effetti di una eventuale liquefazione non vengano trasmessi alla superficie.

A questo punto occorre riportare alcune considerazioni circa la determinazione del terremoto di progetto, a partire dal valore di M utilizzato per il calcolo in esame. Per la presente verifica si adatterà il valore di 6,1 precedentemente descritto. Sulla scorta del Catalogo CTPI15 si potrà rilevare come il Comune di Mesola sia stato sottoposto ad eventi sismici di Magnitudo (Richter) massima pari a 4,21.

**Si osservi che essendo la scala di M logaritmica, il valore di 6,14 risulta quindi essere estremamente penalizzante.**

**Ad ulteriore penalizzazione nella verifica la falda è stata posta alla profondità assolutamente penalizzante di -1,00 m dal p.c.**

La verifica alla liquefazione è stata eseguita mediante il metodo di calcolo Robertson et Al. (1998) per il calcolo dell'indice di potenziale liquefazione (LPI) sia per la magnitudo massima attesa per la ZS 912/914 (M=6.14) che per valori inferiori con maggior probabilità di accadimento con indicato al paragrafo precedente (M=5.00) fino alla profondità di -15 m dal p.c. per tutte le CPTU eseguite.

Inoltre, si è provveduto ad un approfondimento sismico di III livello con la redazione dello studio di risposta sismica locale (Allegato 3). È stato calcolato un valore di  $S^*_{ag/g}$  pari a 0,170 (valore del 90° percentile che deriva dallo studio RSL)

Il calcolo del LPI utilizza la metodologia sviluppata da Iwasaki (1982) ed è adottata da AFPS. Per stimare la gravità della liquefazione in un dato sito, LPI è calcolato in base alla seguente equazione:

$$LPI = \int_0^{20} (10 - 0,5z) \times F_z \times dz$$

- $FL = 1 - F.S.$  quando F.S. è inferiore a 1;
- $FL = 0$  quando F.S. è superiore a 1;
- $Z$  = profondità (m).

Il valore di LPI può variare tra 0 (quando non ci sono spessori in cui si rileva liquefazione) e 100 (tutti gli spessori sono caratterizzati da una suscettibilità alla liquefazione). Iwasaki propone 4 categorie basate sul valore di LPI:

- $LPI = 0$  Rischio di liquefazione è molto basso;
- $0 < LPI \leq 5$  Rischio di liquefazione è basso;
- $5 < LPI \leq 15$  Rischio di liquefazione è alto;
- $LPI > 15$  Rischio di liquefazione è molto alto.

La D.G.R. 467/2021, delibera di aggiornamento della D.G.R. 630/2019, in base al valore stimato dell'indice del potenziale di liquefazione IL si definisce le classi di pericolosità (Sonmez, 2003):

IL = 0	Non liquefacibile ( $FL \geq 1.2$ )
$0 < IL \leq 2$	Potenziale basso
$2 < IL \leq 5$	Potenziale moderato
$5 < IL \leq 15$	Potenziale alto
$15 < IL$	Potenziale molto alto

**OPR SUN 31 SRL**  
**PARCO FOTOVOLTAICO E RELATIVE OPERE DI CONNESSIONE ALLA RTN**  
**DI POTENZA PARI A 5,12 MW NEL COMUNE DI MESOLA (FE)**  
**RELAZIONE DI MODELLAZIONE GEOLOGICA E SISMICA E DI PRIME CONSIDERAZIONE GEOTECNICHE**

Si riporta una tabella di sintesi i valori dell'indice del potenziale di liquefazione ILP mentre in Allegato 4 vengono riportate le risultanze delle verifiche effettuate.

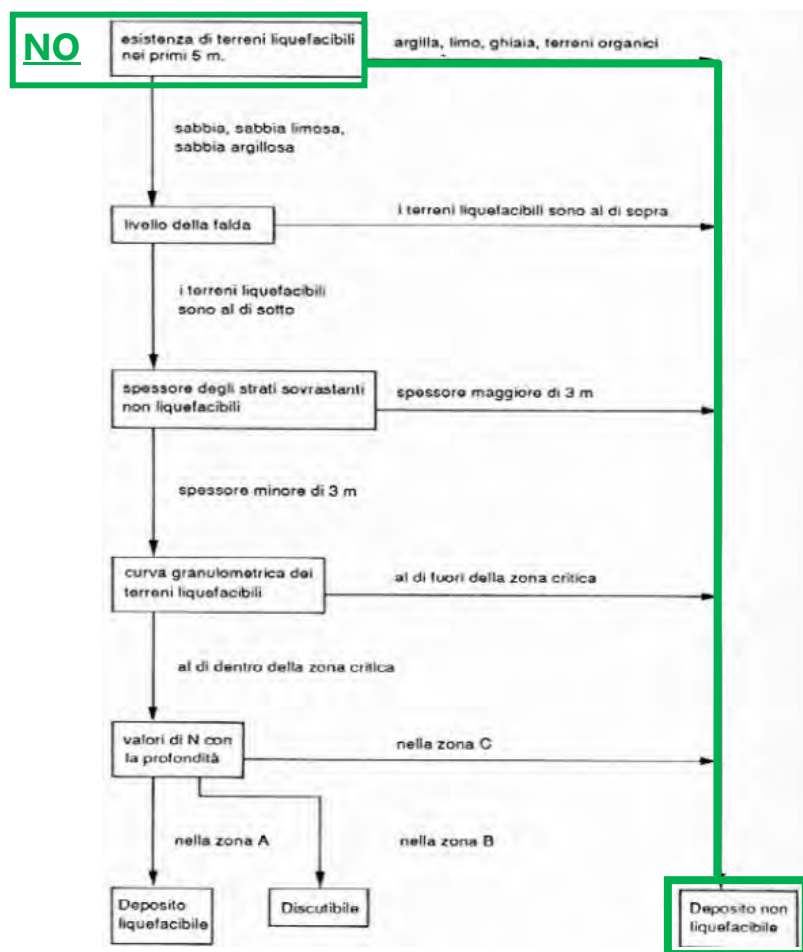
CPTU	M=6.14	M=6.00	M=5.75	M=5.50	M=5.00
CPTU1	0,24	0,12	0,02	0,00	0,00
CPTU2	1,48	1,04	0,39	0,05	0,00
CPTU3	1,04	0,64	0,16	0,02	0,00
CPTU4	2,05	1,33	0,51	0,07	0,00

Si può concludere quanto segue:

- Sulla scorta del Catalogo degli eventi sismici succedutisi in Italia dal 1000 ad oggi si potrà rilevare come il Comune di Mesola in realtà sia stato sottoposto ad eventi sismici di Magnitudo (Richter) **massima pari a 4,21** (2002) e che il valore di M avente localmente **maggiori probabilità di ripetersi è pari a 5,00**;
- **Si osservi che essendo la scala di M logaritmica, il valore di 6,14 risulta quindi essere estremamente penalizzante;**
- **È stata ipotizzata una profondità del livello della falda freatica a -1,00 m dal p.c. per effetto della sua risalita in caso di evento sismico e quindi essere estremamente penalizzante in quanto mediamente le oscillazioni stagionali si attesterebbero mediamente tra -1,50/-4,00 m dal p.c. come riportato al paragrafo 5;**
- Autori quali Crespellani, Sheriff, Ishibashi ed altri riportano che, per le energie sismiche attese per l'area in esame, uno spessore pari a circa tre/cinque metri di materiale non liquefacibile sovrastante la lente granulare eventualmente liquefacibile, svolge un'azione di contrasto sufficiente a far sì che gli effetti di una eventuale liquefazione non vengano trasmessi alla superficie come indicato nella figura successive;
- Nelle CPTU1, CPTU2 e CPTU3 si sono rilevati sostanzialmente livelli potenzialmente liquefacibili nell'orizzonte sabbioso e sabbio-limoso posto da -10,00/-11,00 m dal p.c. e i terreni sovrastanti fungeranno da azione di contrasto alla trasmissione in superficie degli effetti di una eventuale liquefazione.
- Nella CPTU4 si sono rilevati sostanzialmente livelli potenzialmente liquefacibili nell'orizzonte sabbioso e sabbio-limoso posto da -4,00 m dal p.c. e i terreni sovrastanti fungeranno da azione di contrasto alla trasmissione in superficie degli effetti di una eventuale liquefazione.
- L'indice ILP è risultato BASSO nella CPTU1, CPTU2 e CPTU3 e al limite del BASSO per M=6.14 (ILP=2,05) nella CPTU4.

Qui sotto viene inoltre riportato il Metodo di Sherif e Ishibashi (1978), fonte bibliografica di riferimento per le prime valutazioni sul tema della liquefazione che indica che gli strati non sono liquefacibili.





**Figura 19 – Metodo Sherif-Ishibashi (1978) – Tabella A**

**Allegato 1**

**Ubicazione prove e restituzione  
grafica**

Comune  
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Localita'  
Committente  
Data

Mesola  
SP 68  
Ariano Ferrarese  
Dott.ssa Geol. Sara Bedeschi  
12-ott-23

Falda  
foro chiuso e asciutto a 0.80m

Sigla della Punta  
Azzeramento  
Ultimo taratura guadagno  
Ultimo taratura per deriva termica

Tecnopenta 100707  
Inizio prova  
12-apr-2023  
12-apr-2023

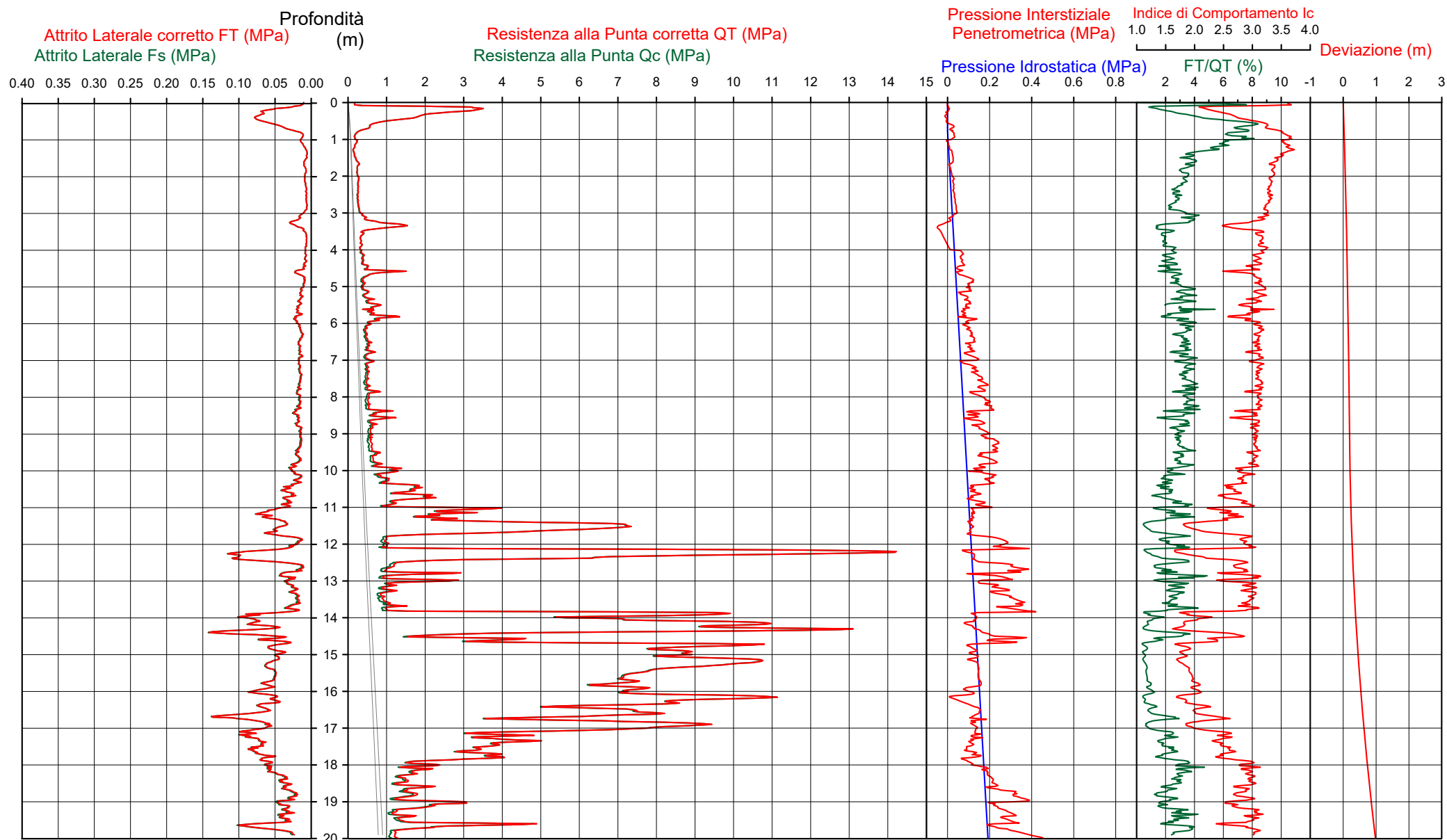


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# CPTU

1





CPTU

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qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H m	Litologia grafica	Falda idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990	Angolo Attrito φ' Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi	OCR Marchi / SGT	Modulo Edometrico M Benassi	Velocità Vs Robertson & Cabal 2009
daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	%	Idriss iterazione						%		daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	m/sec
21.9	37.2	0.42	3.0	2.64	limo argilloso-argilla limosa	0.00	=====		Solido-plastica (Duro)	.	.	1.13	49.07	128.3	152
						0.30	=====								
16.0	27.1	0.74	4.9	2.79	limo argilloso-argilla limosa	0.50	=====		Plastica	.	.	0.92	58.56	91.4	160
6.3	10.8	0.48	7.7	3.22	argilla-argilla limosa	0.70	=====		Molle-plastica (Soffice)	.	.	0.45	14.82	47.2	132
2.7	4.5	0.18	7.0	3.51	argilla-argilla limosa	0.90	=====		Fluida	.	.	0.21	5.40	19.2	99
1.9	3.2	0.11	6.7	3.61	terreni organici-torbe	1.30	=====		Fluida	.	.	0.15	2.51	13.3	87
2.5	4.2	0.07	3.4	3.34	argilla-argilla limosa	2.90	=====		Fluida	.	.	0.19	1.52	15.2	84
3.9	6.6	0.14	3.9	3.21	argilla-argilla limosa	3.20	=====		Fluida	.	.	0.29	2.27	24.4	97
11.3	19.1	0.24	2.4	2.71	limo argilloso-argilla limosa	3.40	=====		Plastica	.	.	0.72	6.44	53.9	125
3.9	6.6	0.08	2.5	3.11	argilla-argilla limosa	4.50	=====		Fluida	.	.	0.29	3.22	18.9	88
9.2	15.6	0.17	2.3	2.81	limo argilloso-argilla limosa	4.60	=====		Molle-plastica (Soffice)	.	.	0.61	4.89	41.9	119
4.7	8.0	0.13	3.3	3.10	argilla-argilla limosa	5.40	=====		Fluida	.	.	0.35	3.16	28.5	97
7.3	12.4	0.18	3.0	2.93	limo argilloso-argilla limosa	5.90	=====		Molle-plastica (Soffice)	.	.	0.51	2.94	43.2	110
5.7	9.7	0.18	3.8	3.07	argilla-argilla limosa	6.10	=====		Molle-plastica (Soffice)	.	.	0.41	2.56	35.4	105
4.7	8.0	0.13	3.5	3.12	argilla-argilla limosa	6.40	=====		Fluida	.	.	0.35	1.85	29.0	96
5.3	8.9	0.16	3.8	3.10	argilla-argilla limosa	8.30	=====		Molle-plastica (Soffice)	.	.	0.39	1.80	33.2	100
8.1	12.3	0.20	3.2	2.93	limo argilloso-argilla limosa	8.60	=====		Molle-plastica (Soffice)	.	.	0.55	2.45	47.5	115
6.5	9.3	0.17	3.3	3.05	argilla-argilla limosa	9.90	=====		Molle-plastica (Soffice)	.	.	0.46	1.64	39.2	106
10.9	14.2	0.21	2.3	2.81	limo argilloso-argilla limosa		=====		Plastica	.	.	0.70	3.09	49.8	123

## CPTU

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qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H m	Litologia grafica	Falda idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990 %	Angolo Attrito φ' Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi daN/cm <sup>2</sup>	OCR Marchi / SGT	Modulo Edometrico M Benassi daN/cm <sup>2</sup>	Velocità Vs Robertson & Cabal 2009 m/sec
daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	%	Idriss iterazione											
						10.40									
18.0	22.5	0.31	1.9	2.60	sabbia limosa-limo sabbioso	10.50			Sciolti	17.8	32.2			73.4	145
15.5	19.4	0.35	2.6	2.73	limo argilloso-argilla limosa	10.60			Plastica			0.90	3.75	77.6	144
18.2	22.4	0.25	1.6	2.55	sabbia limosa-limo sabbioso	10.70			Sciolti	17.6	32.2			67.3	141
14.5	17.8	0.33	2.9	2.79	limo argilloso-argilla limosa				Plastica			0.86	4.30	81.4	143
						11.00									
31.2	36.5	0.52	1.9	2.42	sabbia limosa-limo sabbioso	11.10			Sciolti	33.7	34.7			126.1	174
24.1	28.3	0.64	3.0	2.64	limo argilloso-argilla limosa	11.30			Solido-plastica (Duro)			1.20	5.89	141.2	173
53.1	58.9	0.44	1.0	2.09	sabbia limosa-limo sabbioso				Mediamente Addensata	49.6	37.1			173.5	181
						11.70									
11.4	13.1	0.26	2.7	2.88	limo argilloso-argilla limosa				Plastica			0.72	3.35	59.4	129
						12.10									
95.0	99.9	0.90	1.1	1.94	sabbia-sabbia limosa				Addensata	67.0	39.7			314.9	224
						12.40									
13.8	14.9	0.30	2.7	2.83	limo argilloso-argilla limosa				Plastica			0.83	3.79	72.2	138
						13.30									
8.9	9.3	0.19	2.9	3.01	argilla-argilla limosa	13.50			Molle-plastica (Soffice)			0.59	1.61	49.9	120
10.6	11.0	0.22	2.7	2.93	limo argilloso-argilla limosa				Plastica			0.68	1.81	55.7	128
						13.80									
75.0	75.6	0.71	1.1	2.03	sabbia-sabbia limosa				Mediamente Addensata	57.7	38.3			246.6	213
						14.10									
101.9	101.6	0.82	0.9	1.85	sabbia-sabbia limosa				Addensata	67.5	39.7			326.8	223
						14.40									
25.8	25.3	0.83	3.5	2.73	limo argilloso-argilla limosa	14.50			Solido-plastica (Duro)			1.25	4.40	150.1	189
43.1	42.2	0.44	1.3	2.29	sabbia limosa-limo sabbioso	14.70			Mediamente Addensata	38.5	35.5			149.6	186
88.7	86.6	0.48	0.6	1.81	sabbia-sabbia limosa				Mediamente Addensata	62.2	38.9			272.5	202
						15.10									
103.0	99.9	0.56	0.6	1.76	sabbia-sabbia limosa	15.30			Addensata	67.0	39.5			316.2	211
79.2	74.8	0.57	0.8	1.94	sabbia-sabbia limosa				Mediamente Addensata	57.4	38.2			248.4	205
						16.30									
68.1	62.7	0.66	1.1	2.08	sabbia limosa-limo sabbioso	16.50			Mediamente Addensata	51.6	37.3			223.2	209
77.4	71.2	0.68	0.9	2.00	sabbia-sabbia limosa	16.60			Mediamente Addensata	55.8	37.9			247.9	212
57.1	51.7	1.06	2.1	2.33	sabbia limosa-limo sabbioso	16.80			Mediamente Addensata	45.2	36.4			243.7	222
84.6	77.3	0.61	0.8	1.93	sabbia-sabbia limosa	17.00			Mediamente Addensata	58.5	38.3			265.2	212
41.7	36.2	0.79	2.1	2.46	sabbia limosa-limo sabbioso				Sciolti	33.5	34.8			181.2	203
						17.60									
33.0	27.8	0.76	2.6	2.60	limo argilloso-argilla limosa	17.70			Semi solida (Molto duro)			1.43	4.44	167.1	197
32.6	27.3	0.63	2.4	2.58	sabbia limosa-limo sabbioso	17.90			Sciolti	24.2	33.6			152.0	191
18.3	14.7	0.57	3.9	2.93	limo argilloso-argilla limosa				Plastica			1.01	2.48	105.8	173
						18.20									
14.9	11.7	0.39	3.4	2.97	argilla-argilla limosa				Plastica			0.88	2.05	86.6	155
						18.50									
18.5	14.4	0.32	2.2	2.80	limo argilloso-argilla limosa				Plastica			1.02	2.22	81.4	157
						19.20									
13.4	10.0	0.35	3.6	3.04	argilla-argilla limosa				Plastica			0.81	1.51	77.7	150
						19.50									
28.0	21.8	0.68	3.0	2.75	limo argilloso-argilla limosa	19.70			Solido-plastica (Duro)			1.31	3.12	161.6	195
13.4	9.8	0.37	3.6	3.05	argilla-argilla limosa				Plastica			0.82	1.74	78.2	150

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Ariano Ferrarese  
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Falda  
foro chiuso e asciutto a 1.00m

Sigla della Punta  
Azzeramento  
Ultimo taratura guadagno  
Ultimo taratura per deriva termica

Tecnopenta 100707  
Inizio prova  
12-apr-2023  
12-apr-2023



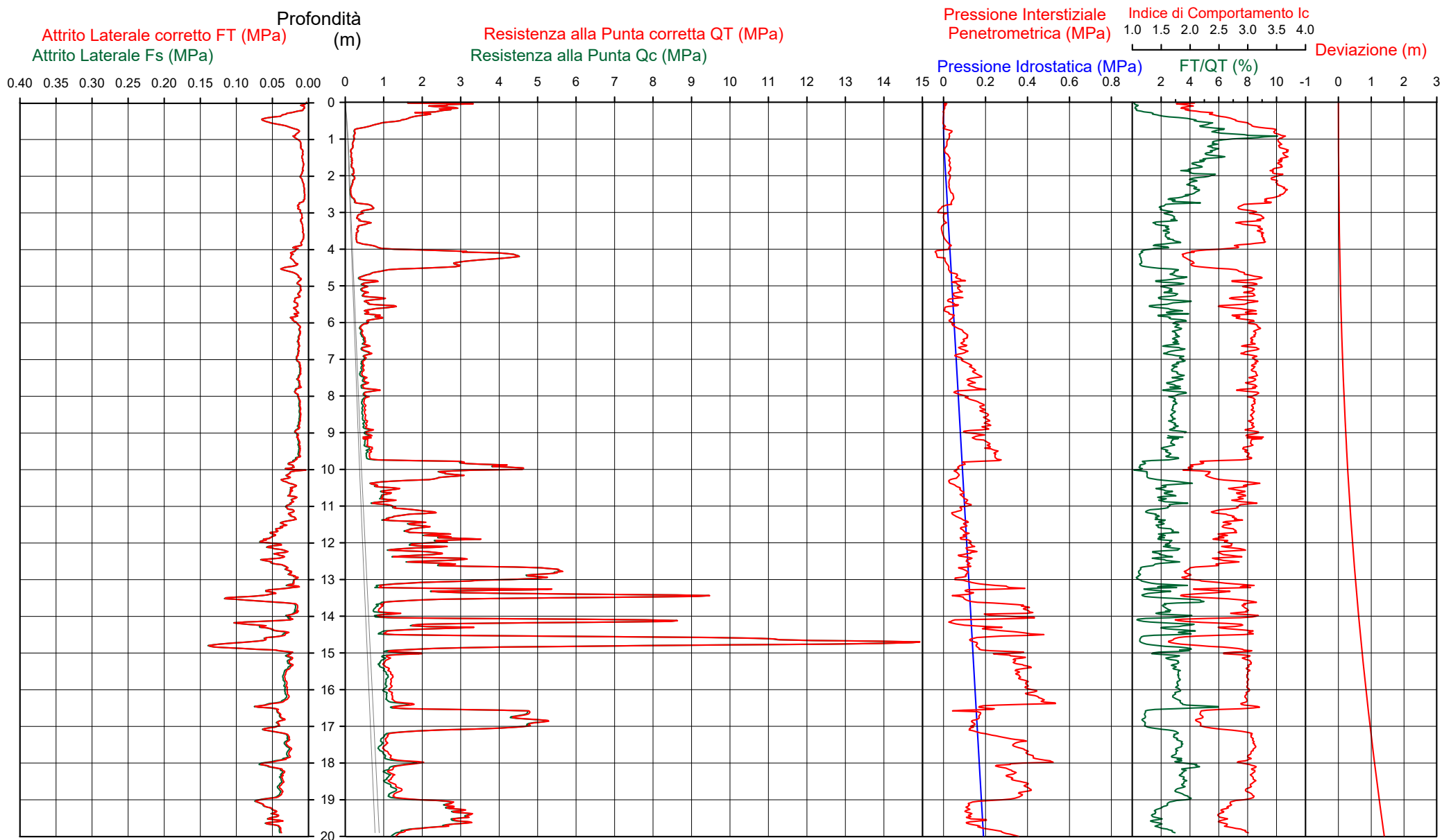
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## CPTU

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120

qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H	Litologia grafica	Falda idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990	Angolo Attrito φ' Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi	OCR Marchi / SGT	Modulo Edometrico M Benassi	Velocità Vs Robertson & Cabal 2009
daN/cm²		daN/cm²	%	Idriss iterazione		m				%		daN/cm²		daN/cm²	m/sec
25.8	43.9	0.06	0.2	1.93	sabbia-sabbia limosa	0.00	.....		Mediamente Addensata	39.8	42.8	.	.	77.7	119
21.0	35.8	0.29	1.5	2.33	sabbia limosa-limo sabbioso	0.20	.....		Scioltissima	33.1	39.3	.	.	75.1	139
15.5	26.4	0.62	4.0	2.74	limo argilloso-argilla limosa	0.40	.....		Plastica	.	.	0.90	46.00	89.8	154
7.9	13.4	0.40	5.2	3.06	argilla-argilla limosa	0.50	.....		Molle-plastica (Soffice)	.	.	0.54	21.96	44.9	131
2.3	3.9	0.14	6.7	3.53	argilla-argilla limosa	0.70	.....		Fluido-plastica (Molto Soffice)	.	.	0.18	3.73	16.4	94
1.6	2.7	0.09	6.3	3.64	terreni organici-torbe	1.20	.....		Fluida	.	.	0.13	2.05	11.3	82
1.8	3.0	0.07	5.0	3.58	argilla-argilla limosa	1.50	.....		Fluida	.	.	0.14	1.87	11.6	80
2.2	3.8	0.09	4.8	3.46	argilla-argilla limosa	1.80	.....		Fluido-plastica (Molto Soffice)	.	.	0.18	2.13	14.6	86
1.9	3.2	0.07	4.7	3.52	argilla-argilla limosa	2.10	.....		Fluida	.	.	0.15	1.78	12.2	79
1.4	2.5	0.06	5.3	3.64	terreni organici-torbe	2.30	.....		Fluida	.	.	0.12	1.21	9.7	72
3.8	6.5	0.09	3.0	3.17	argilla-argilla limosa	2.50	.....		Fluido-plastica (Molto Soffice)	.	.	0.29	1.19	22.1	90
19.4	32.7	0.19	1.4	2.41	sabbia limosa-limo sabbioso	3.90	.....		Scioltissima	30.1	34.4	.	.	68.4	127
37.5	61.4	0.22	0.6	1.96	sabbia-sabbia limosa	4.10	.....		Mediamente Addensata	50.9	37.5	.	.	115.5	144
20.6	35.0	0.28	1.9	2.42	sabbia limosa-limo sabbioso	4.40	.....		Scioltissima	32.4	34.5	.	.	82.6	137
5.5	9.3	0.13	3.0	3.03	argilla-argilla limosa	4.60	.....		Molle-plastica (Soffice)	.	.	0.40	3.33	31.9	101
7.0	12.0	0.17	3.0	2.93	limo argilloso-argilla limosa	5.10	.....		Molle-plastica (Soffice)	.	.	0.49	2.20	40.5	107
4.5	7.6	0.12	3.6	3.14	argilla-argilla limosa	6.00	.....		Fluido-plastica (Molto Soffice)	.	.	0.33	1.85	27.5	94
5.3	9.1	0.14	3.3	3.06	argilla-argilla limosa	6.40	.....		Molle-plastica (Soffice)	.	.	0.39	1.86	32.4	99
5.5	8.3	0.13	3.2	3.07	argilla-argilla limosa	7.00	.....		Molle-plastica (Soffice)	.	.	0.40	1.40	32.9	98
27.2	33.7	0.22	1.2	2.34	sabbia limosa-limo sabbioso	9.70	.....		Scioltissima	31.1	34.3	.	.	91.6	150
44.0	52.6	0.25	0.6	2.01	sabbia-sabbia limosa	10.00	.....		Mediamente Addensata	45.8	36.5	.	.	135.2	160

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qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H	Litologia grafica	Falda idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990 %	Angolo Attrito φ' Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi daN/cm <sup>2</sup>	OCR Marchi / SGT	Modulo Edometrico M Benassi daN/cm <sup>2</sup>	Velocità Vs Robertson & Cabal 2009 m/sec
25.9	31.8	0.26	1.2	2.33	sabbia limosa-limo sabbioso	10.30			Scioltissima	29.2	34.0	.	.	86.8	149
8.9	11.3	0.24	3.5	2.99	argilla-argilla limosa	10.50			Molle-plastica (Soffice)	.	.	0.59	2.07	51.6	123
11.3	13.9	0.24	2.7	2.85	limo argilloso-argilla limosa	11.10			Plastica	.	.	0.72	2.74	58.4	129
21.7	25.4	0.23	1.1	2.43	sabbia limosa-limo sabbioso	11.20			Scioltissima	21.8	32.9	.	.	72.4	143
14.7	17.2	0.26	2.1	2.72	limo argilloso-argilla limosa	11.50			Plastica	.	.	0.87	3.17	62.2	136
19.6	22.4	0.43	2.5	2.66	limo argilloso-argilla limosa	11.80			Plastica	.	.	1.06	4.34	95.3	156
27.1	30.1	0.58	2.3	2.55	sabbia limosa-limo sabbioso	12.00			Scioltissima	27.4	33.8	.	.	125.4	174
18.0	20.0	0.45	2.9	2.75	limo argilloso-argilla limosa	12.20			Plastica	.	.	1.00	4.03	101.6	158
22.2	24.3	0.36	1.8	2.55	sabbia limosa-limo sabbioso	12.30			Scioltissima	20.4	32.7	.	.	87.0	157
17.7	19.4	0.37	2.5	2.72	limo argilloso-argilla limosa	12.40			Plastica	.	.	0.99	3.57	85.5	153
27.9	30.1	0.55	2.2	2.53	sabbia limosa-limo sabbioso	12.50			Scioltissima	27.3	33.8	.	.	124.3	175
23.3	25.1	0.46	2.3	2.60	limo argilloso-argilla limosa	12.60			Solido-plastica (Duro)	.	.	1.18	4.61	107.8	166
44.4	46.5	0.24	0.6	2.07	sabbia limosa-limo sabbioso	13.10			Mediamente Addensata	41.7	35.9	.	.	137.4	164
10.4	10.9	0.20	2.6	2.92	limo argilloso-argilla limosa	13.20			Plastica	.	.	0.67	1.95	51.8	126
35.1	36.2	0.46	1.7	2.42	sabbia limosa-limo sabbioso	13.40			Scioltissima	33.4	34.7	.	.	134.6	184
80.2	81.4	0.83	1.2	2.00	sabbia-sabbia limosa	13.50			Mediamente Addensata	60.2	38.6	.	.	269.0	217
21.5	22.0	0.87	4.8	2.87	limo argilloso-argilla limosa	13.60			Solido-plastica (Duro)	.	.	1.12	3.91	123.4	188
9.7	9.8	0.20	2.7	2.97	argilla-argilla limosa	14.00			Molle-plastica (Soffice)	.	.	0.64	1.75	51.4	124
50.6	50.4	0.52	1.6	2.28	sabbia limosa-limo sabbioso	14.20			Mediamente Addensata	44.4	36.3	.	.	188.6	199
20.7	20.4	0.59	3.5	2.80	limo argilloso-argilla limosa	14.40			Solido-plastica (Duro)	.	.	1.10	3.79	120.7	174
10.9	10.5	0.31	3.6	3.03	argilla-argilla limosa	14.50			Plastica	.	.	0.70	1.84	63.1	137
105.1	103.3	0.78	0.8	1.86	sabbia-sabbia limosa	14.80			Addensata	68.1	39.7	.	.	332.4	223
20.9	19.8	0.56	3.1	2.81	limo argilloso-argilla limosa	15.10			Solido-plastica (Duro)	.	.	1.10	5.63	121.9	162
12.0	10.8	0.32	3.4	3.00	argilla-argilla limosa	16.50			Plastica	.	.	0.75	1.72	70.1	141
44.0	39.3	0.43	1.1	2.26	sabbia limosa-limo sabbioso	17.10			Mediamente Addensata	36.2	35.2	.	.	146.8	185
11.4	9.4	0.29	3.5	3.06	argilla-argilla limosa	17.90			Plastica	.	.	0.72	2.08	66.4	139
17.6	14.4	0.49	3.4	2.90	limo argilloso-argilla limosa	18.00			Plastica	.	.	0.98	2.37	102.4	166
13.1	10.3	0.41	4.1	3.06	argilla-argilla limosa	19.00			Plastica	.	.	0.80	1.97	75.9	152
27.0	21.6	0.65	2.7	2.70	limo argilloso-argilla limosa	19.20			Solido-plastica (Duro)	.	.	1.29	3.40	144.2	187
28.6	22.5	0.46	1.9	2.59	sabbia limosa-limo sabbioso	19.80			Scioltissima	17.8	32.8	.	.	114.0	179
15.4	11.5	0.38	3.2	2.96	argilla-argilla limosa				Plastica	.	.	0.90	1.86	90.0	157



Comune  
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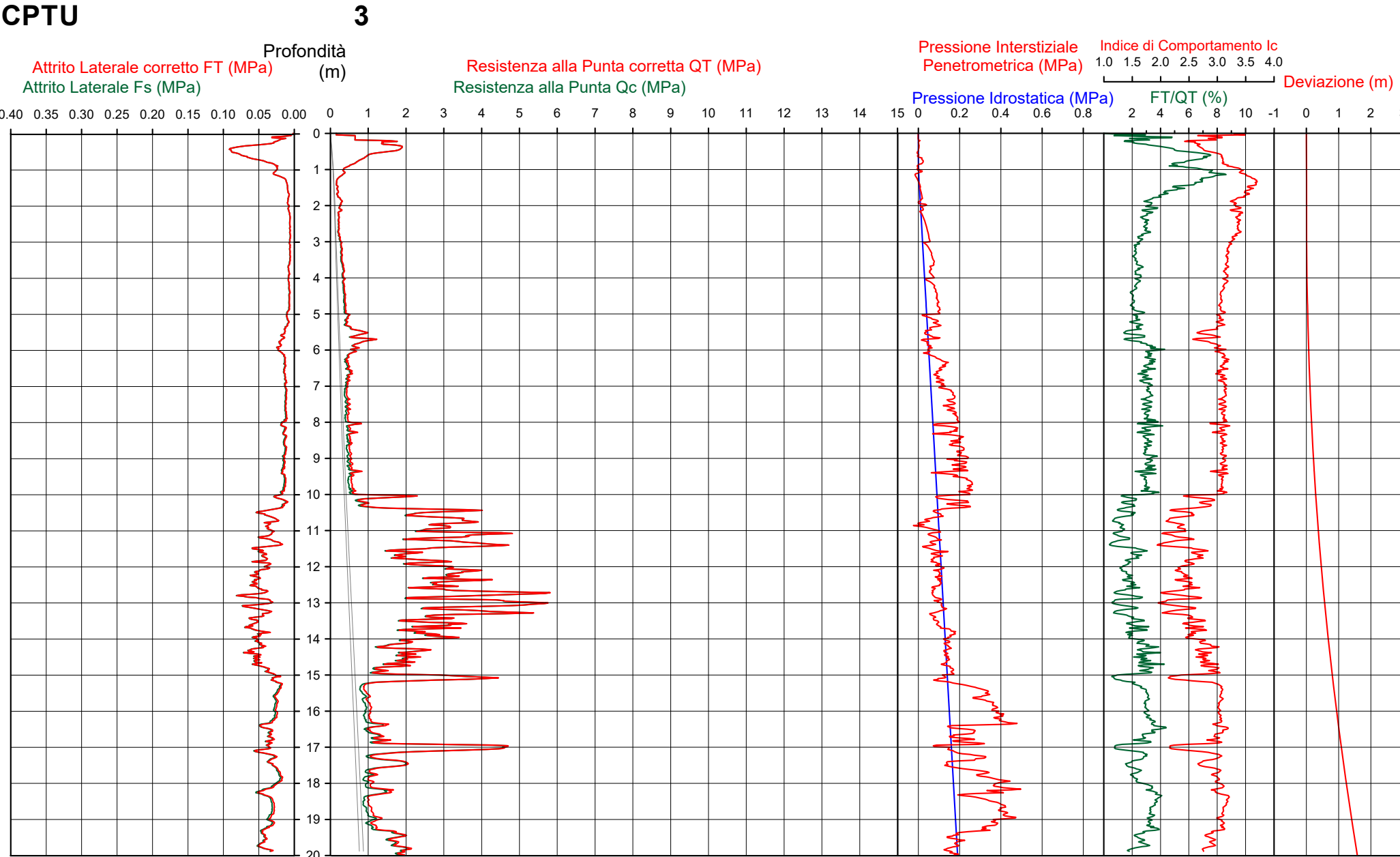
Mesola  
SP 68  
Ariano Ferrarese  
Dott.ssa Geol. Sara Bedeschi  
12-ott-23

Falda	foro chiuso e asciutto a 1.00m
Sigla della Punta	Tecnopenta 100707
Azzeramento	Inizio prova
Ultimo taratura guadagno	12-apr-2023
Ultimo taratura per deriva termica	12-apr-2023



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Mesola  
1.00

Vs20
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qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H	Litologia grafica	Falda idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990	Angolo Attrito $\phi'$ Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi	OCR Marchi / SGT	Modulo Edometrico M Benassi	Velocità Vs Robertson & Cabal 2009
daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	%	Idriss iterazione		m				%		daN/cm <sup>2</sup>		daN/cm <sup>2</sup>	m/sec
6.4	10.9	0.16	2.6	2.98	argilla-argilla limosa	0.00	=====		Molle-plastica (Soffice)	.	.	0.45	61.36	32.7	112
16.8	28.6	0.65	3.8	2.68	limo argilloso-argilla limosa	0.20	=====		Plastica	.	.	0.96	54.86	97.8	154
8.5	14.4	0.54	6.3	3.08	argilla-argilla limosa	0.50	=====		Molle-plastica (Soffice)	.	.	0.57	21.06	47.3	138
3.5	5.9	0.25	7.8	3.43	argilla-argilla limosa	0.90	=====	H2O	Fluido-plastica (Molto Soffice)	.	.	0.26	4.94	26.1	110
1.8	3.0	0.12	7.9	3.67	terreni organici-torbe	1.20	-----		Fluida	.	.	0.14	2.16	13.3	87
1.9	3.2	0.09	5.6	3.56	argilla-argilla limosa	1.40	-----		Fluida	.	.	0.15	1.89	12.7	84
2.6	4.4	0.08	3.7	3.35	argilla-argilla limosa	1.70	=====		Fluido-plastica (Molto Soffice)	.	.	0.20	2.07	16.1	87
2.3	4.0	0.06	3.2	3.35	argilla-argilla limosa	2.10	=====		Fluido-plastica (Molto Soffice)	.	.	0.18	1.97	14.1	80
3.7	6.3	0.07	2.4	3.12	argilla-argilla limosa	3.00	=====		Fluido-plastica (Molto Soffice)	.	.	0.28	1.60	17.6	86
8.3	14.1	0.16	2.3	2.81	limo argilloso-argilla limosa	5.40	=====		Molle-plastica (Soffice)	.	.	0.56	3.32	37.7	111
5.4	9.1	0.16	3.6	3.08	argilla-argilla limosa	5.80	=====		Molle-plastica (Soffice)	.	.	0.39	2.55	33.0	101
4.6	7.8	0.12	3.4	3.11	argilla-argilla limosa	6.70	=====		Fluido-plastica (Molto Soffice)	.	.	0.34	1.63	28.2	93
5.6	8.3	0.14	3.3	3.08	argilla-argilla limosa	8.00	=====		Molle-plastica (Soffice)	.	.	0.41	1.86	34.1	100
						10.00	=====								

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Data  
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12 ottobre 2023  
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qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H m	Litologia grafica	Falda Idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990 %	Angolo Attrito φ' Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi daN/cm <sup>2</sup>	OCR Marchi / SGT	Modulo Edometrico M Benassi daN/cm <sup>2</sup>	Velocità Vs Robertson & Cabal 2009 m/sec
18.0	23.1	0.25	1.6	2.55	sabbia limosa-limo sabbioso	10.10			Sciolti	18.6	32.3	.	.	66.9	141
10.5	13.7	0.15	1.8	2.78	limo argilloso-argilla limosa	10.40			Plastica	.	.	0.68	2.03	41.8	117
30.0	35.9	0.36	1.3	2.33	sabbia limosa-limo sabbioso	11.00			Sciolti	33.2	34.6	.	.	104.5	160
33.0	38.3	0.35	1.2	2.29	sabbia limosa-limo sabbioso	11.30			Mediamente Addensata	35.3	34.9	.	.	111.7	164
41.0	46.6	0.19	0.5	2.02	sabbia-sabbia limosa	11.40			Mediamente Addensata	41.8	35.9	.	.	125.3	156
33.4	38.1	0.46	1.6	2.35	sabbia limosa-limo sabbioso	11.50			Mediamente Addensata	35.2	34.9	.	.	124.8	172
19.3	22.3	0.43	2.5	2.67	limo argilloso-argilla limosa	11.80			Plastica	.	.	1.05	4.13	95.7	157
30.3	33.4	0.49	1.8	2.44	sabbia limosa-limo sabbioso	12.60			Sciolti	30.8	34.3	.	.	117.9	172
39.4	41.3	0.48	1.5	2.30	sabbia limosa-limo sabbioso	13.40			Mediamente Addensata	37.8	35.4	.	.	140.9	178
25.2	26.0	0.58	2.6	2.63	limo argilloso-argilla limosa	13.50			Solido-plastica (Duro)	.	.	1.24	4.65	129.1	176
29.6	30.1	0.59	2.2	2.54	sabbia limosa-limo sabbioso	13.70			Sciolti	27.4	33.9	.	.	132.9	180
22.4	22.7	0.52	2.6	2.67	limo argilloso-argilla limosa	13.80			Solido-plastica (Duro)	.	.	1.15	4.02	114.9	169
27.8	27.9	0.49	1.9	2.53	sabbia limosa-limo sabbioso	14.00			Sciolti	24.8	33.5	.	.	113.3	173
18.6	18.4	0.50	3.2	2.80	limo argilloso-argilla limosa	14.30			Plastica	.	.	1.02	3.57	108.7	164
21.2	20.7	0.57	3.1	2.75	limo argilloso-argilla limosa	14.50			Solido-plastica (Duro)	.	.	1.11	3.67	126.3	171
17.0	16.3	0.44	3.2	2.84	limo argilloso-argilla limosa	15.00			Plastica	.	.	0.96	3.25	99.5	159
31.0	29.5	0.27	1.2	2.38	sabbia limosa-limo sabbioso	15.20			Sciolti	26.7	33.8	.	.	103.6	163
10.0	9.1	0.24	3.2	3.05	argilla-argilla limosa	16.30			Plastica	.	.	0.65	1.48	58.6	130
12.5	10.9	0.36	3.7	3.02	argilla-argilla limosa	16.90			Plastica	.	.	0.77	2.04	72.7	146
41.1	36.5	0.40	1.1	2.28	sabbia limosa-limo sabbioso	17.10			Sciolti	33.8	34.9	.	.	136.2	182
14.0	11.9	0.35	3.2	2.97	argilla-argilla limosa	17.30			Plastica	.	.	0.84	2.40	81.7	148
17.1	14.4	0.30	2.2	2.80	limo argilloso-argilla limosa	17.60			Plastica	.	.	0.97	2.32	76.3	152
10.8	8.8	0.21	2.7	3.02	argilla-argilla limosa	18.10			Plastica	.	.	0.69	1.43	57.1	130
14.6	11.8	0.43	3.8	3.00	argilla-argilla limosa	18.30			Plastica	.	.	0.87	1.89	84.7	157
11.2	8.7	0.32	4.0	3.11	argilla-argilla limosa	19.30			Plastica	.	.	0.71	1.35	65.0	141
18.3	14.1	0.42	2.9	2.86	limo argilloso-argilla limosa				Plastica	.	.	1.01	2.16	101.2	164

Comune  
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Mesola  
SP 68  
Ariano Ferrarese  
Dott.ssa Geol. Sara Bedeschi  
12-ott-23

Falda  
1.10 m

Sigla della Punta  
Azzeramento  
Ultimo taratura guadagno  
Ultimo taratura per deriva termica

Tecnopenta 100707  
Inizio prova  
12-apr-2023  
12-apr-2023



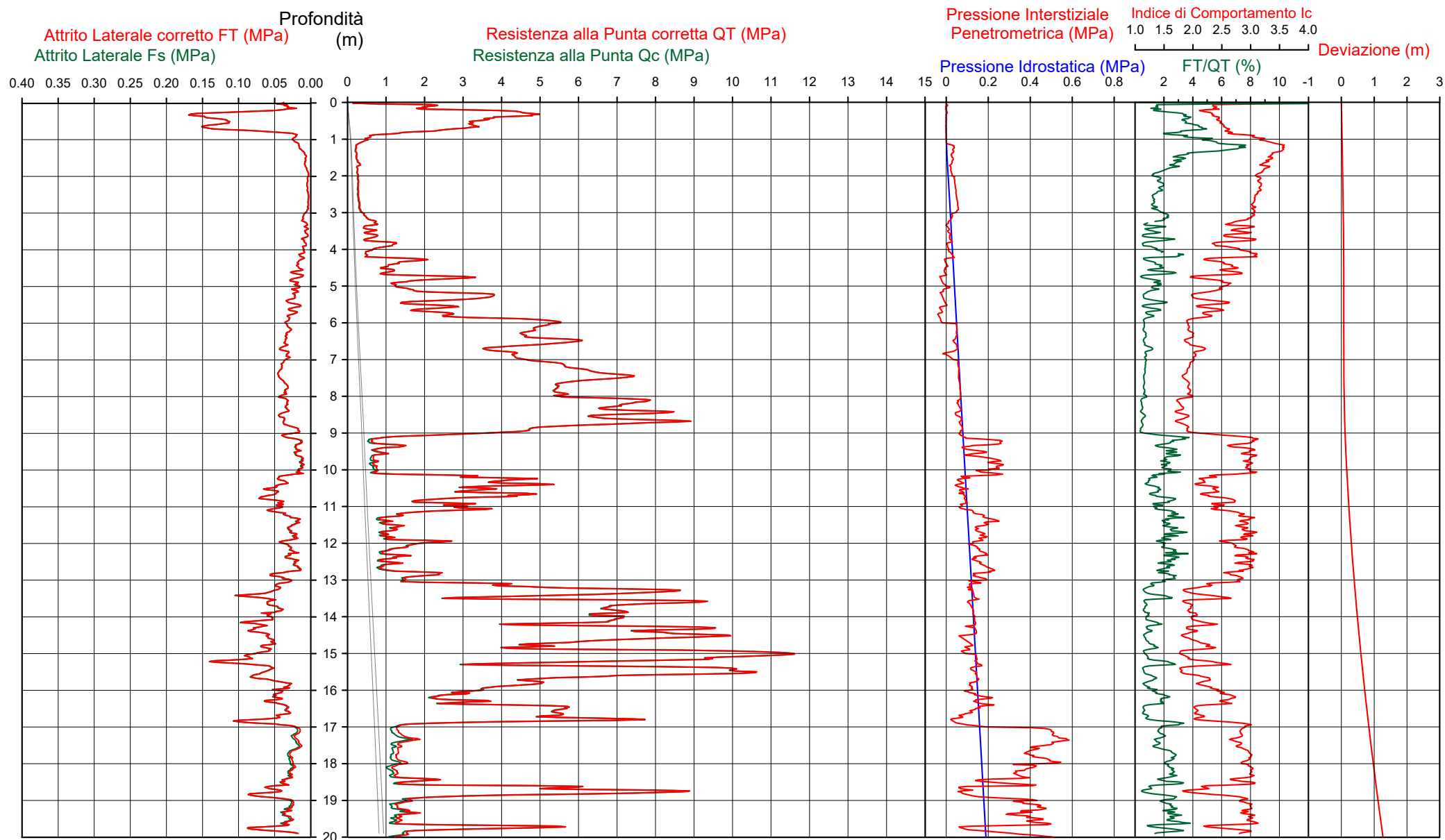
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qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H m	Litologia grafica	Falda idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990 %	Angolo Attrito φ' Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi daN/cm <sup>2</sup>	OCR Marchi / SGT	Modulo Edometrico M Benassi daN/cm <sup>2</sup>	Velocità Vs Robertson & Cabal 2009 m/sec
15.3	26.0	0.37	7.5	2.84	limo argilloso-argilla limosa	0.00			Plastica	-	-	0.89	334.69	83.4	163
33.5	56.9	1.11	3.3	2.44	sabbia limosa-limo sabbioso	0.10			Mediamente Addensata	48.4	40.2	-	-	195.3	183
7.9	13.4	0.24	3.6	2.95	argilla-argilla limosa	0.80			Molle-plastica (Soffice)	-	-	0.54	13.84	45.7	121
2.7	4.6	0.10	4.0	3.33	argilla-argilla limosa	1.00		<u>H2O</u>	Fluido-plastica (Molto Soffice)	-	-	0.21	4.08	17.0	88
3.3	5.6	0.05	1.7	3.09	argilla-argilla limosa	2.00			Fluido-plastica (Molto Soffice)	-	-	0.25	2.05	12.5	81
6.2	10.6	0.07	1.4	2.79	limo argilloso-argilla limosa	3.20			Molle-plastica (Soffice)	-	-	0.44	4.43	21.9	96
12.1	20.6	0.07	0.6	2.37	sabbia limosa-limo sabbioso	3.90			Molto Sciolta	14.8	32.1	-	-	37.2	105
6.7	11.3	0.10	1.7	2.63	limo argilloso-argilla limosa	4.10			Molle-plastica (Soffice)	-	-	0.47	4.46	25.6	100
4.9	8.3	0.15	3.4	3.09	argilla-argilla limosa	4.20			Fluido-plastica (Molto Soffice)	-	-	0.36	2.64	29.9	101
15.2	25.9	0.15	1.1	2.41	sabbia limosa-limo sabbioso	4.40			Sciolta	22.4	33.0	-	-	50.1	121
10.5	17.8	0.18	1.9	2.67	limo argilloso-argilla limosa	4.70			Plastica	-	-	0.68	4.97	42.4	117
28.7	46.7	0.16	0.6	2.05	sabbia limosa-limo sabbioso	4.80			Mediamente Addensata	41.9	35.9	-	-	88.3	134
14.7	24.9	0.22	1.6	2.51	sabbia limosa-limo sabbioso	5.10			Sciolta	21.1	32.6	-	-	53.9	126
23.8	38.5	0.20	0.9	2.23	sabbia limosa-limo sabbioso	5.20			Mediamente Addensata	35.5	34.8	-	-	76.5	136
37.7	56.7	0.22	0.6	1.99	sabbia-sabbia limosa	5.30			Mediamente Addensata	48.3	37.0	-	-	116.1	148
25.2	39.0	0.26	1.2	2.27	sabbia limosa-limo sabbioso	5.90			Mediamente Addensata	35.9	34.9	-	-	84.9	141
51.2	69.0	0.33	0.7	1.93	sabbia-sabbia limosa	6.60			Mediamente Addensata	54.8	38.0	-	-	158.5	166
39.2	53.2	0.37	1.0	2.13	sabbia limosa-limo sabbioso	6.80			Mediamente Addensata	46.1	36.6	-	-	127.3	164
59.5	71.8	0.35	0.7	1.92	sabbia-sabbia limosa	9.10			Mediamente Addensata	56.1	38.2	-	-	184.7	174
7.3	9.3	0.17	2.9	3.02	argilla-argilla limosa	9.30			Molle-plastica (Soffice)	-	-	0.51	1.82	42.0	112
13.2	16.3	0.20	1.8	2.70	limo argilloso-argilla limosa	9.40			Plastica	-	-	0.81	3.21	52.1	131
7.5	9.2	0.15	2.5	2.98	argilla-argilla limosa				Molle-plastica (Soffice)	-	-	0.52	1.74	36.7	110



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qt	Qc1N Idriss & Boulanger 2004	ft	FT/Qnet	lc	Litologia Idriss iterazione basato su Fr vs Qc1N	H m	Litologia grafica	Falda idrica	Addensamento (Sabbia) Consistenza (Argilla)	Densità Relativa Tatsuoka 1990 %	Angolo Attrito φ' Kulhawy & Mayne 1990	Coesione non drenato Cu Benassi daN/cm <sup>2</sup>	OCR Marchi / SGT	Modulo Edometrico M Benassi daN/cm <sup>2</sup>	Velocità Vs Robertson & Cabal 2009 m/sec
37.0	41.0	0.48	1.4	2.31	sabbia limosa-limo sabbioso	10.10	=====		Mediamente Addensata	37.6	35.3	.	.	131.9	176
19.3	21.4	0.43	2.5	2.69	limo argilloso-argilla limosa	10.80	=====		Plastica	.	.	1.05	4.07	95.2	159
30.6	33.2	0.46	1.6	2.42	sabbia limosa-limo sabbioso	10.90	=====		Scioltà	30.6	34.3	.	.	114.3	171
12.5	13.5	0.28	2.7	2.87	limo argilloso-argilla limosa	11.10	=====		Plastica	.	.	0.77	3.52	64.6	136
10.6	11.2	0.24	2.8	2.94	limo argilloso-argilla limosa	11.60	=====		Plastica	.	.	0.68	2.15	57.9	130
22.8	23.7	0.39	1.9	2.57	sabbia limosa-limo sabbioso	11.90	=====		Scioltà	19.5	32.7	.	.	91.5	161
13.4	13.6	0.28	2.6	2.86	limo argilloso-argilla limosa	12.00	=====		Plastica	.	.	0.81	3.00	67.7	138
34.2	33.7	0.40	1.4	2.40	sabbia limosa-limo sabbioso	13.00	=====		Scioltà	31.1	34.4	.	.	121.6	175
74.6	73.3	0.57	0.8	1.96	sabbia-sabbia limosa	13.20	=====		Mediamente Addensata	56.7	38.1	.	.	235.4	203
37.5	36.4	0.82	2.4	2.51	sabbia limosa-limo sabbioso	13.40	=====		Scioltà	33.6	34.8	.	.	178.5	201
71.4	68.9	0.53	0.8	1.97	sabbia-sabbia limosa	13.50	=====		Mediamente Addensata	54.7	37.8	.	.	224.6	200
57.7	54.7	0.84	1.6	2.24	sabbia limosa-limo sabbioso	14.10	=====		Mediamente Addensata	47.1	36.7	.	.	211.7	212
83.3	79.0	0.68	0.9	1.95	sabbia-sabbia limosa	14.20	=====		Mediamente Addensata	59.2	38.4	.	.	265.2	214
54.8	50.6	0.57	1.1	2.18	sabbia limosa-limo sabbioso	14.60	=====		Mediamente Addensata	44.5	36.3	.	.	182.6	198
101.0	94.7	0.84	0.9	1.89	sabbia-sabbia limosa	14.90	=====		Addensata	65.2	39.2	.	.	322.5	226
45.4	40.8	1.11	2.7	2.49	sabbia limosa-limo sabbioso	15.20	=====		Mediamente Addensata	37.4	35.4	.	.	234.4	220
89.3	82.3	0.63	0.8	1.91	sabbia-sabbia limosa	15.30	=====		Mediamente Addensata	60.6	38.6	.	.	281.1	215
50.0	44.2	0.50	1.0	2.20	sabbia limosa-limo sabbioso	15.60	=====		Mediamente Addensata	40.0	35.7	.	.	163.4	190
33.1	28.4	0.41	1.4	2.43	sabbia limosa-limo sabbioso	15.90	=====		Scioltà	25.4	33.7	.	.	115.9	177
23.7	19.9	0.49	2.4	2.69	limo argilloso-argilla limosa	16.10	=====		Solido-plastica (Duro)	.	.	1.19	3.31	111.0	174
30.3	25.6	0.48	1.8	2.54	sabbia limosa-limo sabbioso	16.20	=====		Scioltà	22.0	33.3	.	.	119.0	181
54.3	46.7	0.50	1.1	2.17	sabbia limosa-limo sabbioso	16.40	=====		Mediamente Addensata	41.9	36.0	.	.	180.2	195
13.6	10.4	0.23	2.2	2.90	limo argilloso-argilla limosa	16.90	=====		Plastica	.	.	0.82	1.80	60.6	141
21.2	16.2	0.38	2.5	2.80	limo argilloso-argilla limosa	18.40	=====		Solido-plastica (Duro)	.	.	1.11	2.46	104.1	172
60.3	49.5	0.62	1.3	2.21	sabbia limosa-limo sabbioso	18.60	=====		Mediamente Addensata	43.8	36.2	.	.	209.6	208
14.6	10.5	0.30	2.7	2.95	argilla-argilla limosa	18.90	=====		Plastica	.	.	0.87	2.02	76.3	150
35.0	26.6	0.57	2.2	2.60	sabbia limosa-limo sabbioso	19.60	=====		Scioltà	23.3	33.5	.	.	157.3	199
15.9	11.2	0.34	2.6	2.91	limo argilloso-argilla limosa	19.80	=====		Plastica	.	.	0.92	1.81	81.8	154

**Allegato 2**  
**Indagine sismica**

## PROGETTO DI PARCO FOTOVOLTAICO - S.P. 68 DI CODIGORO - OPR SUN31 SRL - TR1

Instrument: TEB-0704/01-22

Data format: 32 bit

Full scale [mV]: 89

Start recording: 12/10/2023 13:04:00 End recording: 12/10/2023 13:24:00

Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN

GPS data not available

Trace length: 0h20'00". Analyzed 52% trace (manual window selection)

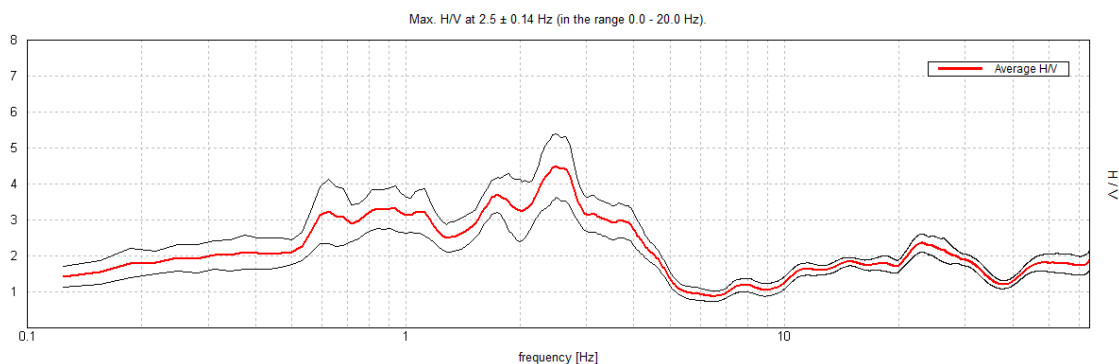
Sampling rate: 128 Hz

Window size: 20 s

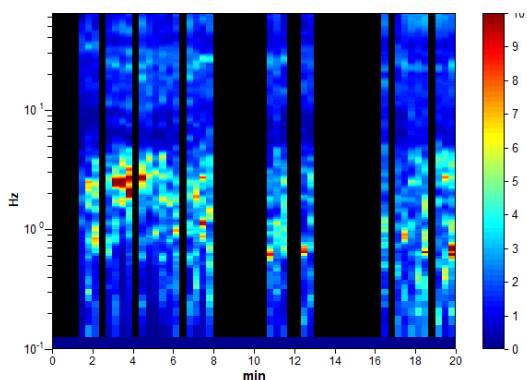
Smoothing type: Triangular window

Smoothing: 10%

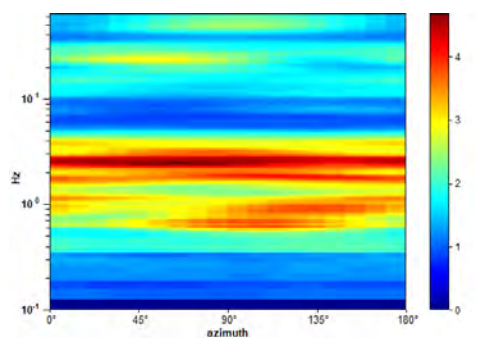
### HORIZONTAL TO VERTICAL SPECTRAL RATIO



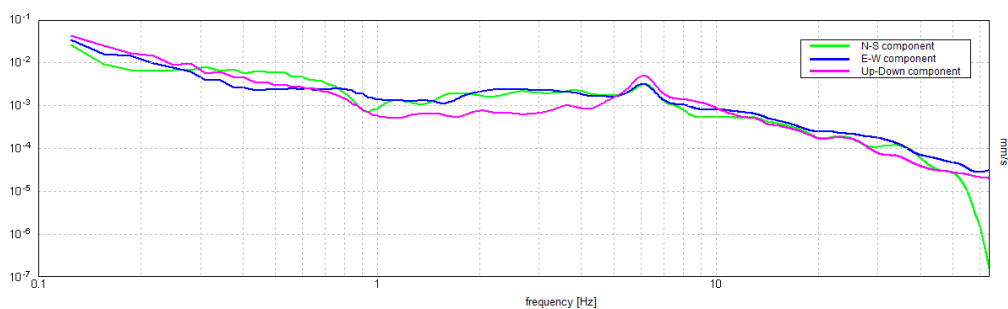
### H/V TIME HISTORY



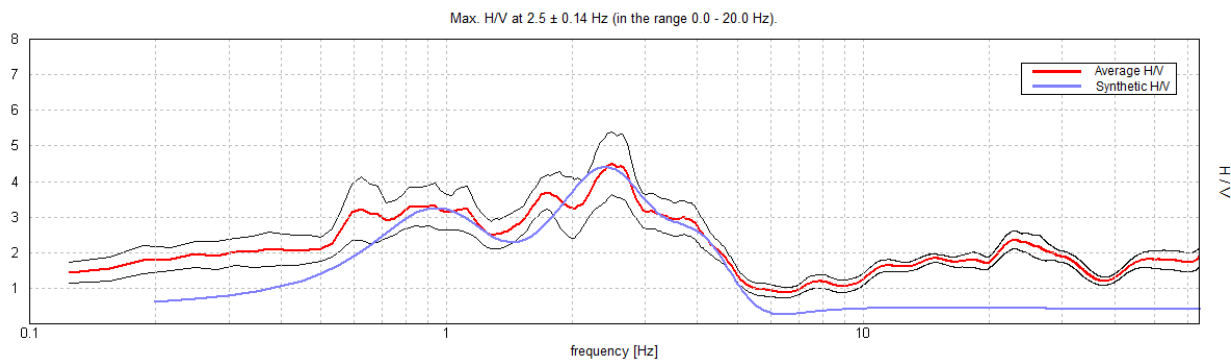
### DIRECTIONAL H/V



### SINGLE COMPONENT SPECTRA

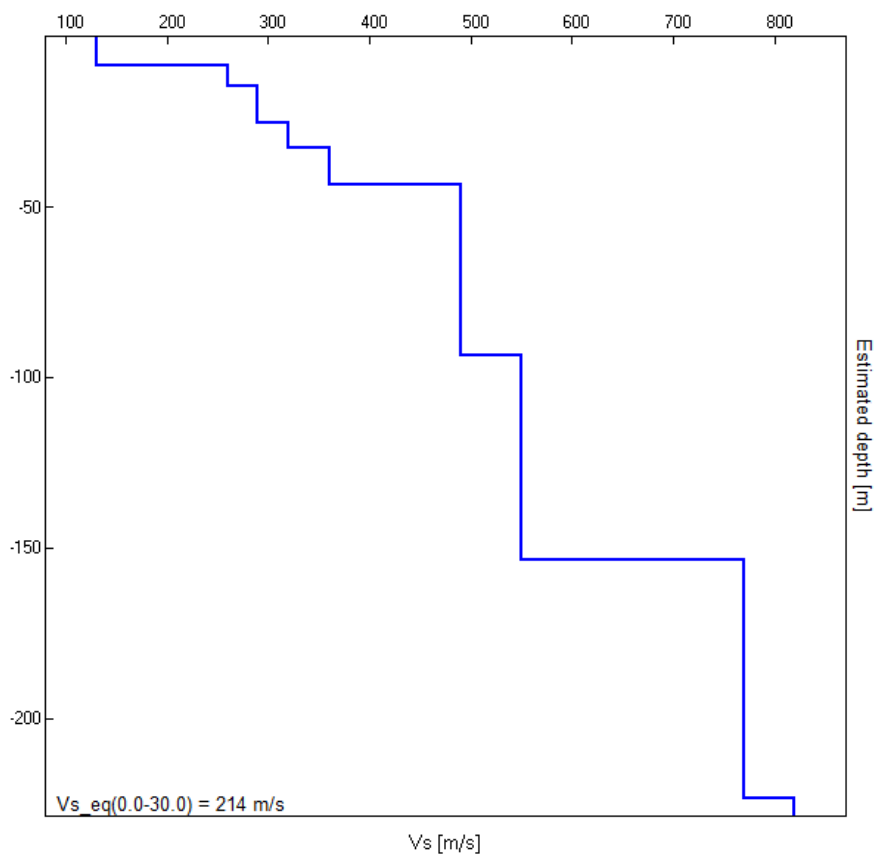


## EXPERIMENTAL vs. SYNTHETIC H/V



Depth at the bottom of the layer [m]	Thickness [m]	Vs [m/s]	Poisson ratio
8.50	8.50	130	0.42
14.50	6.00	260	0.35
25.50	11.00	290	0.42
32.50	7.00	320	0.42
43.50	11.00	360	0.42
93.50	50.00	490	0.42
153.50	60.00	550	0.42
223.50	70.00	770	0.42
inf.	inf.	820	0.42

$Vs_{eq}(0.0-30.0) = 214$  m/s



[According to the SESAME, 2005 guidelines. **Please read carefully the *Grilla* manual before interpreting the following tables.**]

**Max. H/V at  $2.5 \pm 0.14$  Hz (in the range 0.0 - 20.0 Hz).**

### Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$2.50 > 0.50$	OK	
$n_c(f_0) > 200$	$1550.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 121 times	OK	

### Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists $f^-$ in $[f_0/4, f_0]$   $A_{H/V}(f^-) < A_0 / 2$			NO
Exists $f^+$ in $[f_0, 4f_0]$   $A_{H/V}(f^+) < A_0 / 2$	4.313 Hz	OK	
$A_0 > 2$	$4.51 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.05486  < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.13714 < 0.125$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.8864 < 1.58$	OK	

$L_w$	window length
$n_w$	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
$f$	current frequency
$f_0$	H/V peak frequency
$\sigma_f$	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
$A_0$	H/V peak amplitude at frequency $f_0$
$A_{H/V}(f)$	H/V curve amplitude at frequency $f$
$f^-$	frequency between $f_0/4$ and $f_0$ for which $A_{H/V}(f^-) < A_0/2$
$f^+$	frequency between $f_0$ and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$ , $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

### Threshold values for $\sigma_f$ and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20



## PROGETTO DI PARCO FOTOVOLTAICO - S.P. 68 DI CODIGORO - OPR SUN31 SRL - TR2

Instrument: TEB-0704/01-22

Data format: 32 bit

Full scale [mV]: 89

Start recording: 12/10/2023 11:29:54 End recording: 12/10/2023 11:49:54

Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN

GPS data not available

Trace length: 0h20'00". Analyzed 62% trace (manual window selection)

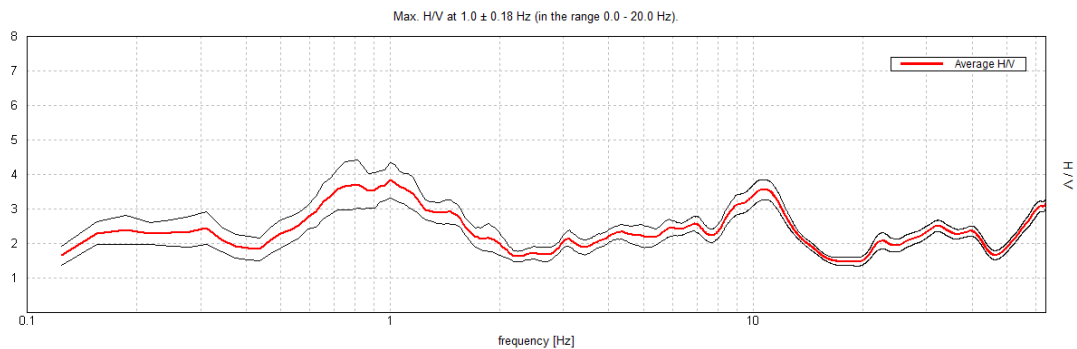
Sampling rate: 128 Hz

Window size: 20 s

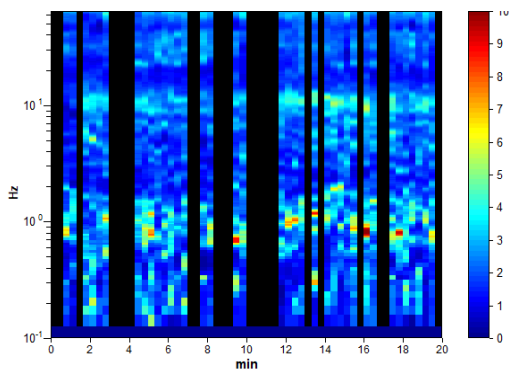
Smoothing type: Triangular window

Smoothing: 10%

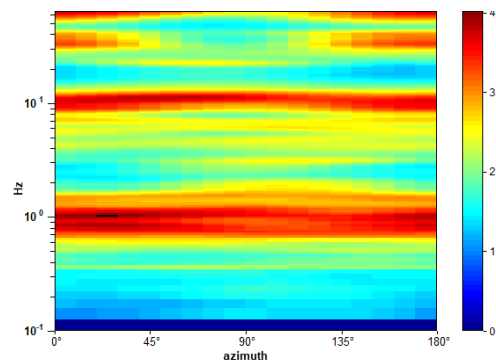
### HORIZONTAL TO VERTICAL SPECTRAL RATIO



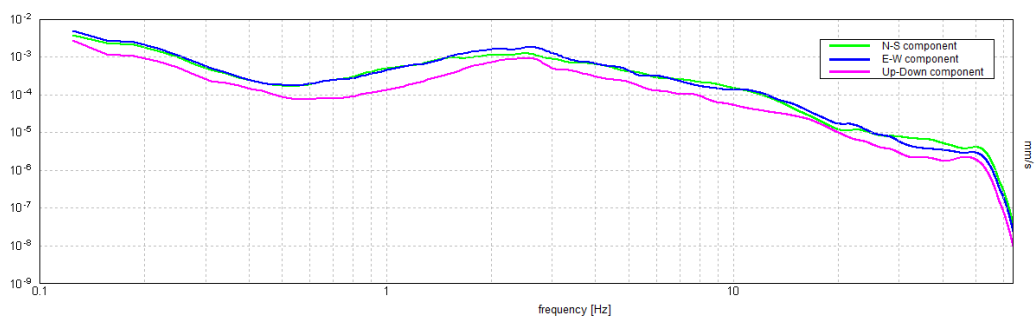
### H/V TIME HISTORY



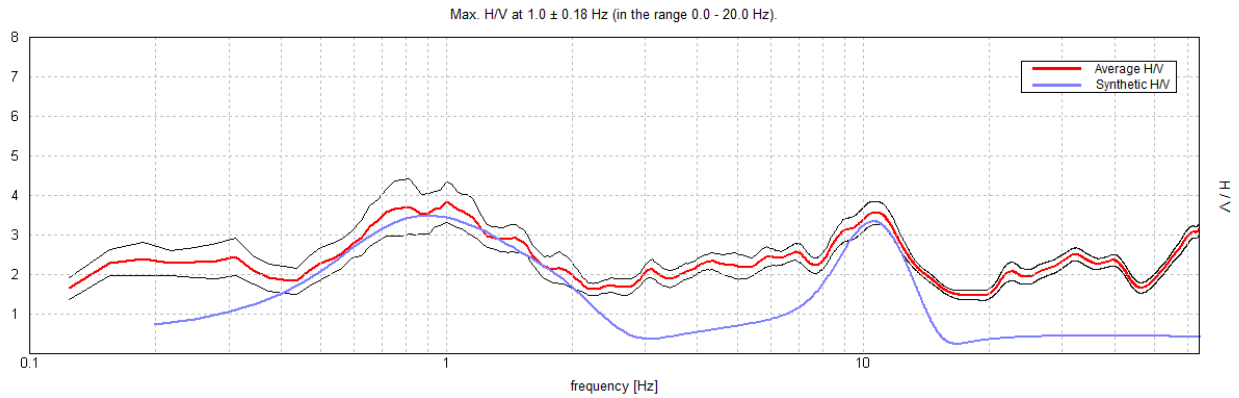
### DIRECTIONAL H/V



### SINGLE COMPONENT SPECTRA

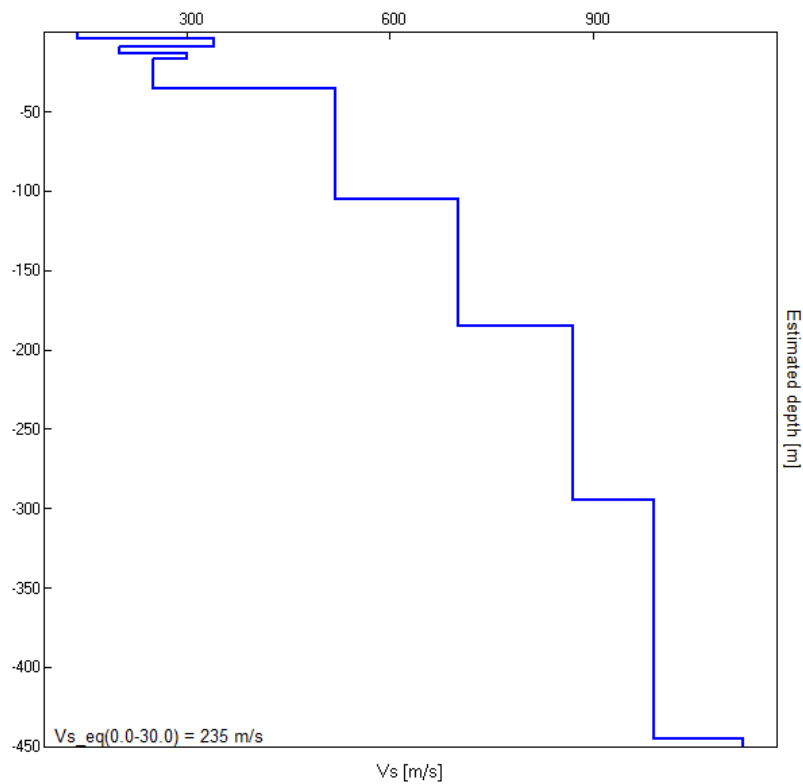


## EXPERIMENTAL vs. SYNTHETIC H/V



Depth at the bottom of the layer [m]	Thickness [m]	Vs [m/s]	Poisson ratio
3.80	3.80	140	0.42
9.00	5.20	340	0.35
13.00	4.00	200	0.42
17.00	4.00	300	0.35
35.00	18.00	250	0.42
105.00	70.00	520	0.42
185.00	80.00	700	0.42
295.00	110.00	870	0.42
445.00	150.00	990	0.42
inf.	inf.	1120	0.42

$Vs_{eq}(0.0-30.0) = 235$  m/s



[According to the SESAME, 2005 guidelines. **Please read carefully the *Grilla* manual before interpreting the following tables.**]

**Max. H/V at  $1.0 \pm 0.18$  Hz (in the range 0.0 - 20.0 Hz).**

### Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$1.00 > 0.50$	OK	
$n_c(f_0) > 200$	$740.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 49 times	OK	

### Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists $f^-$ in $[f_0/4, f_0]$   $A_{H/V}(f^-) < A_0 / 2$	0.438 Hz	OK	
Exists $f^+$ in $[f_0, 4f_0]$   $A_{H/V}(f^+) < A_0 / 2$	2.063 Hz	OK	
$A_0 > 2$	$3.83 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.17774  < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.17774 < 0.1$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.5105 < 1.78$	OK	

$L_w$	window length
$n_w$	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
$f$	current frequency
$f_0$	H/V peak frequency
$\sigma_f$	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
$A_0$	H/V peak amplitude at frequency $f_0$
$A_{H/V}(f)$	H/V curve amplitude at frequency $f$
$f^-$	frequency between $f_0/4$ and $f_0$ for which $A_{H/V}(f^-) < A_0/2$
$f^+$	frequency between $f_0$ and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$ , $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

### Threshold values for $\sigma_f$ and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

**Allegato 3**

**Studio di Risposta Sismica Locale**

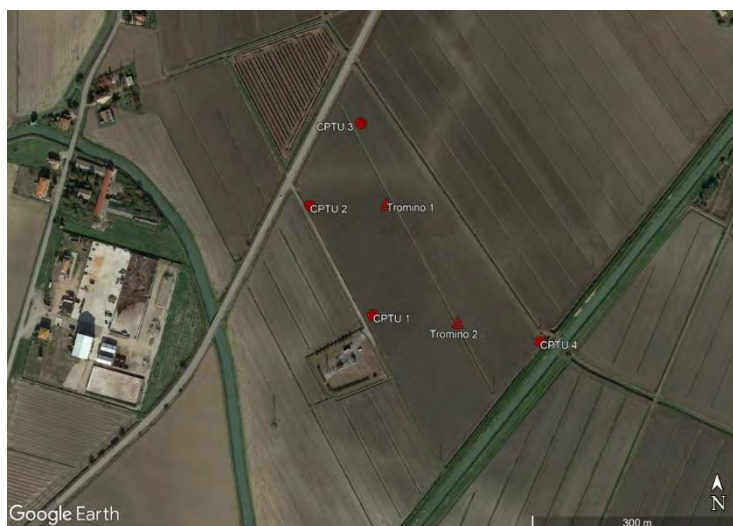
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# COMUNE DI MESOLA

Provincia di Ferrara

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## Analisi di Risposta Sismica Locale



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Committente: Geol. Sara Bedeschi

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**Società di  
Geologia  
Territoriale**

S.G.T. sas.  
di Van Zutphen Albert & C.  
Via Matteotti 50  
48012 Bagnacavallo (RA)  
[www.geo55.com](http://www.geo55.com)

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Ottobre, 2023





# ANALISI DI RISPOSTA SISMICA LOCALE

## LA MODELLAZIONE STRATA

La modellazione numerica dei dati, ottenuti dalle diverse prove dirette ed indirette, è stata realizzata tramite l'ausilio del software STRATA (2008), sviluppato da Albert Kottke.

Nel corso dei passati terremoti, si è osservato che il comportamento dei terreni dipende dalle condizioni locali. Le amplificazioni, dovute agli effetti locali, sono simulate usando numerosi programmi che assumono condizioni di suolo semplificate, come strati di terreno orizzontali ed estesi infinitamente.

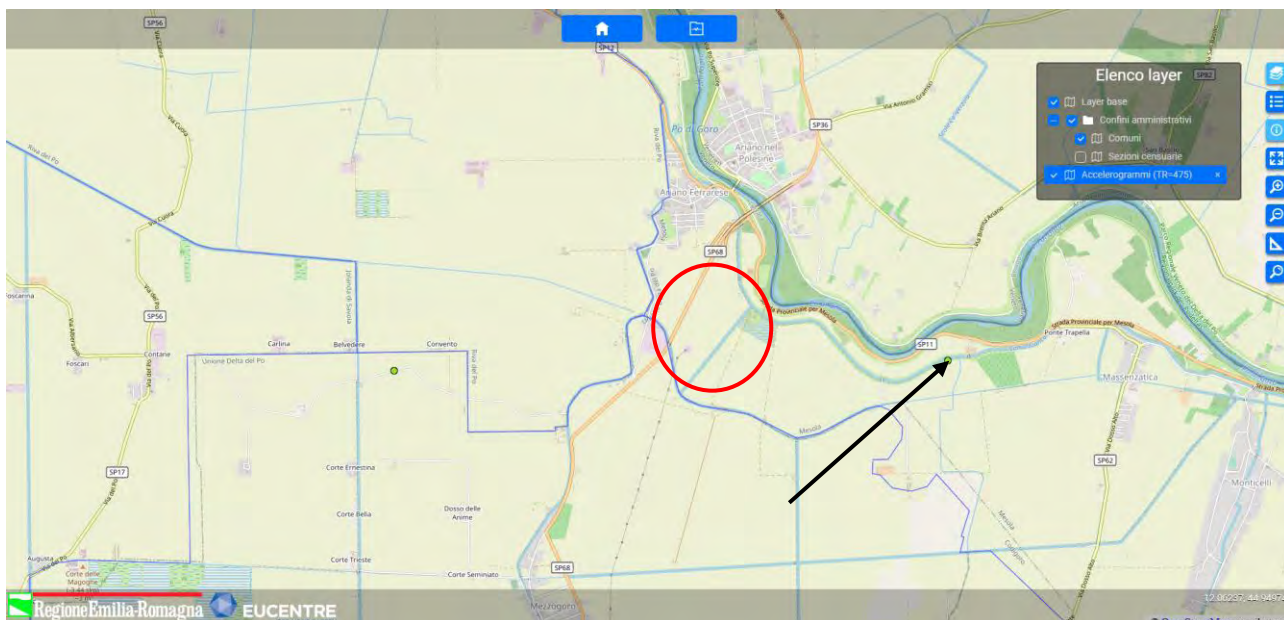
Uno dei programmi sviluppati per questo scopo è stato STRATA che calcola la risposta dinamica monodimensionale (1D) di una colonna di terreno utilizzando un modello di propagazione lineare delle onde, con proprietà variabili in funzione del livello deformativo. Il programma permette di eseguire analisi lineari elastiche (EL), dove le proprietà elastiche e lo smorzamento sono mantenuti costanti, o analisi equivalenti lineari (EQL) dove le proprietà elastiche e lo smorzamento vengono fatti variare in funzione del livello deformativo.

Il progenitore dei programmi 1D che utilizzano il metodo EQL è il programma SHAKE di Schnabel et al. (1972).

La verifica monodimensionale dell'amplificazione locale, tramite l'utilizzo di STRATA si compone di due fasi: elaborazione del modello, simulazione degli effetti indotti dal sisma di progetto. La prima fase consiste nell'inserire i dati (accelerazione, intervalli di tempo), relativi ai segnali di riferimento.

Le analisi di RSL sono state condotte considerando lo SLV con  $TR=475$  anni e coefficiente  $C_u=0.7$ .

Per lo SLV si è fatto riferimento ai sette accelerogrammi selezionati dalla Regione Emilia-Romagna in un nodo più prossimo al sito di interesse TR475\_ID14966.



<b>N.</b>	<b>Magnitude (Mw)</b>	<b>Epic. Distance (km)</b>	<b>Scalin Factor</b>	<b>Source file name</b>
1	6.9	62.90	0.40 %	ESM EU.HRZ..HNE.D.19790415.061941.C.ACC.ASC
2	6.93	94.31	1.24 %	NGA RSN797_LOMAP_RIN000.AT2
3	5.9	50.00	1.85 %	ESM FC.ALG..HNE.D.19891029.190913.C.ACC.ASC
4	6.2	81.40	1.84 %	NGA RSN2929_CHICHI.04_TTN042W.AT2
5	6.5	57.74	1.51 %	NGA RSN8167_SANSIMEO_DCPP337.AT2
6	6.6	62	0.78 %	KiKnet SAGH050503201053.EW2
7	6.5	51.3	1.08 %	ESM IT.TER..HGN.D.20161030.064018.C.ACC.ASC

Dopo aver determinato gli input sismici, si è proceduto alla costruzione della colonna di sottosuolo di riferimento rappresentata da strati (layer) a differente tessitura e da diversi valori delle onde di taglio S (Vs).

La stratigrafia che caratterizza il profilo stratigrafico è stata derivata dalle indagini geognostiche e geofisiche realizzate nel sito di interesse e ricavate dai dati del sottosuolo della zona in esame riportati in letteratura.

Dopo aver determinato gli input sismici, si è proceduto alla costruzione della colonna di riferimento rappresentata da strati (layer) a differente tessitura e da diversi valori delle onde di taglio S (Vs).

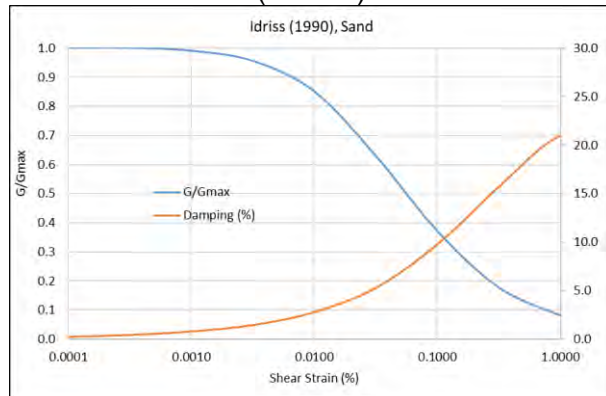
La stratigrafia di input che caratterizza il profilo stratigrafico è stata derivata dalle indagini geognostiche e geofisiche realizzate sul sito di interesse e ricavate dai dati del sottosuolo della zona in esame riportati in letteratura.

Nel caso specifico, in considerazione delle caratteristiche litologiche delle formazioni della zona di interesse, si è fatto riferimento al seguente modello litostratigrafico.

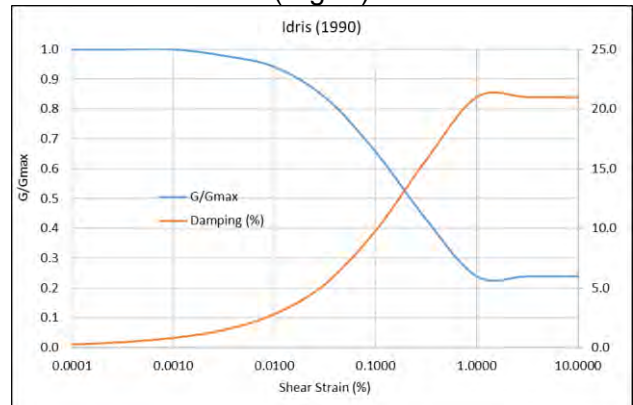
Stratigrafia di input:

Site Profile							
	Depth (m)	Thickness (m)	Soil Type	Vs (m/s)	Minimum (m/s)	Maximum (m/s)	Varied
1	0.00	10.00	argille	130.00	<input checked="" type="checkbox"/> 120.00	<input checked="" type="checkbox"/> 150.00	<input checked="" type="checkbox"/>
2	10.00	5.00	sabbie	260.00	<input checked="" type="checkbox"/> 220.00	<input checked="" type="checkbox"/> 300.00	<input checked="" type="checkbox"/>
3	15.00	11.00	suoli medio bassa prof. (EPRI 120-250 ft)	290.00	<input checked="" type="checkbox"/> 250.00	<input checked="" type="checkbox"/> 300.00	<input checked="" type="checkbox"/>
4	26.00	7.00	sabbie	320.00	<input checked="" type="checkbox"/> 280.00	<input checked="" type="checkbox"/> 350.00	<input checked="" type="checkbox"/>
5	33.00	11.00	suoli medio bassa prof. (EPRI 120-250 ft)	360.00	<input checked="" type="checkbox"/> 300.00	<input checked="" type="checkbox"/> 390.00	<input checked="" type="checkbox"/>
6	44.00	50.00	suoli medio bassa prof. (EPRI 120-250 ft)	490.00	<input checked="" type="checkbox"/> 400.00	<input checked="" type="checkbox"/> 530.00	<input checked="" type="checkbox"/>
7	94.00	60.00	suoli media prof (GEI 250 - 500 ft)	550.00	<input checked="" type="checkbox"/> 500.00	<input checked="" type="checkbox"/> 600.00	<input checked="" type="checkbox"/>
8	154.00	70.00	suoli prof. (EPRI 500-1000 ft)	770.00	<input checked="" type="checkbox"/> 700.00	<input checked="" type="checkbox"/> 800.00	<input checked="" type="checkbox"/>
9	224.00	Half-Space	Bedrock	820.00	<input checked="" type="checkbox"/> 800.00	<input checked="" type="checkbox"/> 850.00	<input checked="" type="checkbox"/>

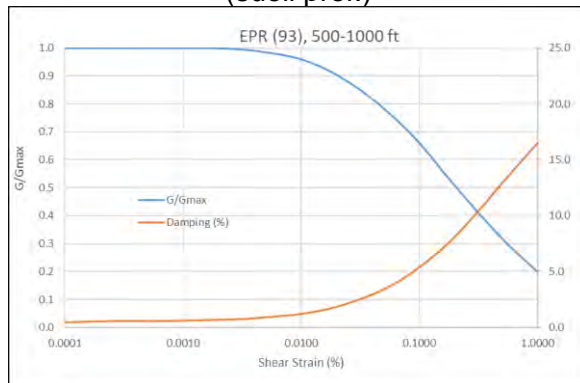
**Sand Mean (Seed & Idriss)  
(Sabbia)**



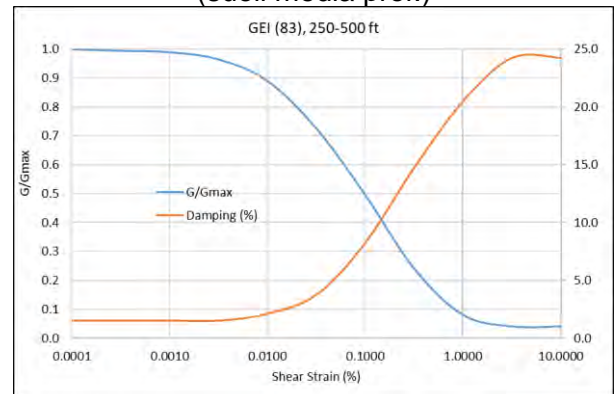
**Clay (Seed & Idriss)  
(argilla)**



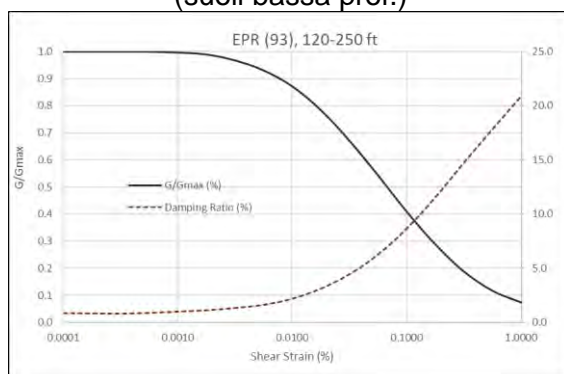
**EPR(93), 500-1000 ft  
(suoli prof.)**



**GEI (83), 250-500 ft  
(suoli media prof.)**



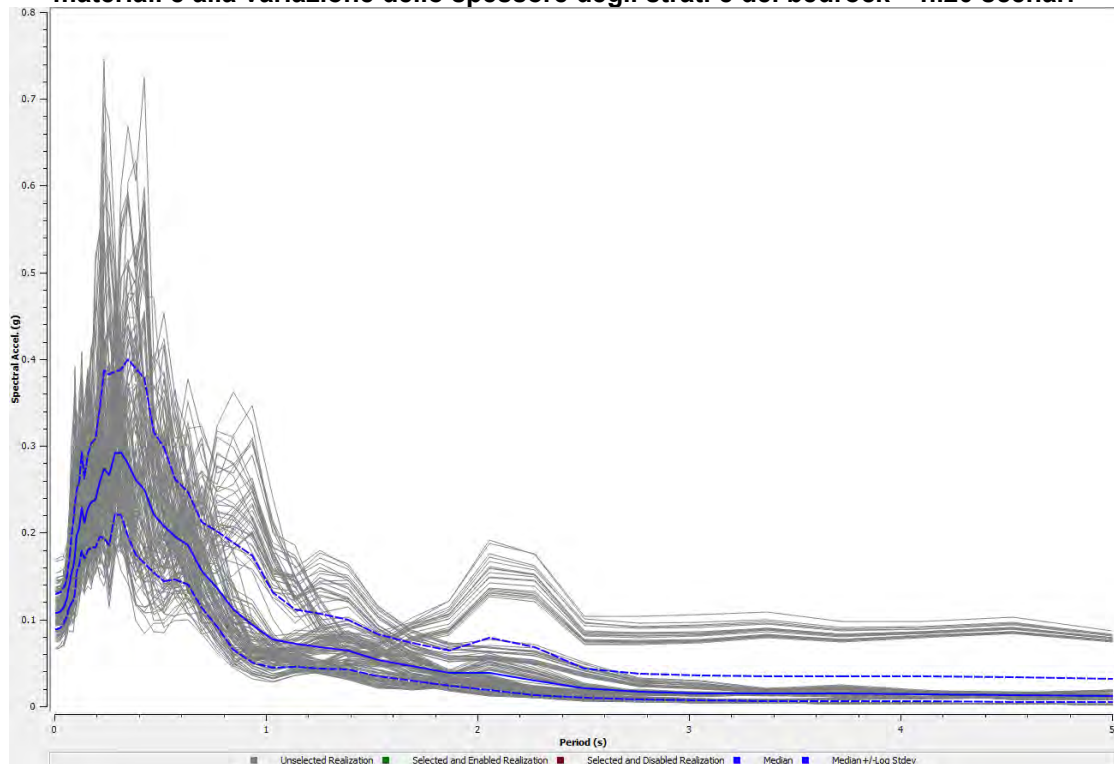
**EPR(93), 120-250 ft  
(suoli bassa prof.)**



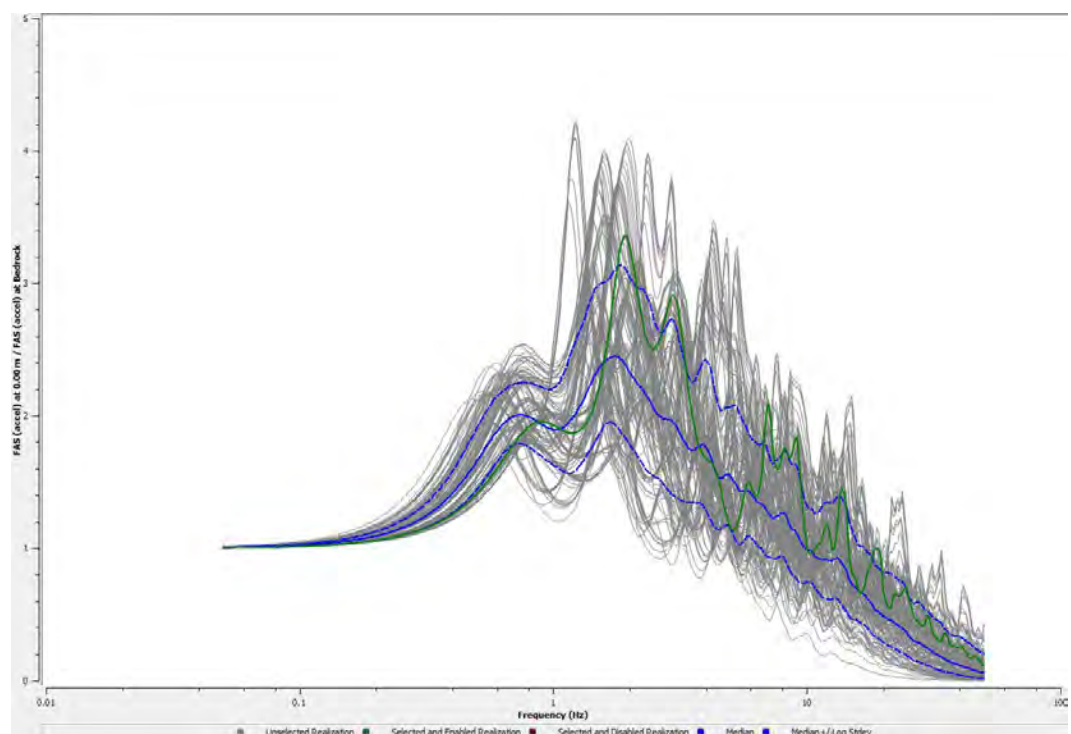
Utilizzando il programma STRATA si riportano i dati ricavati dalla modellazione numerica monodimensionale. Nella modellazione si è proceduto ad una analisi probabilistica facendo variare in modo automatico le velocità delle onde di taglio per ogni strato, il profilo stratigrafico, le caratteristiche dei terreni. Sono stati elaborati n. 20 scenari.

## Stato Limite della Vita – SLV

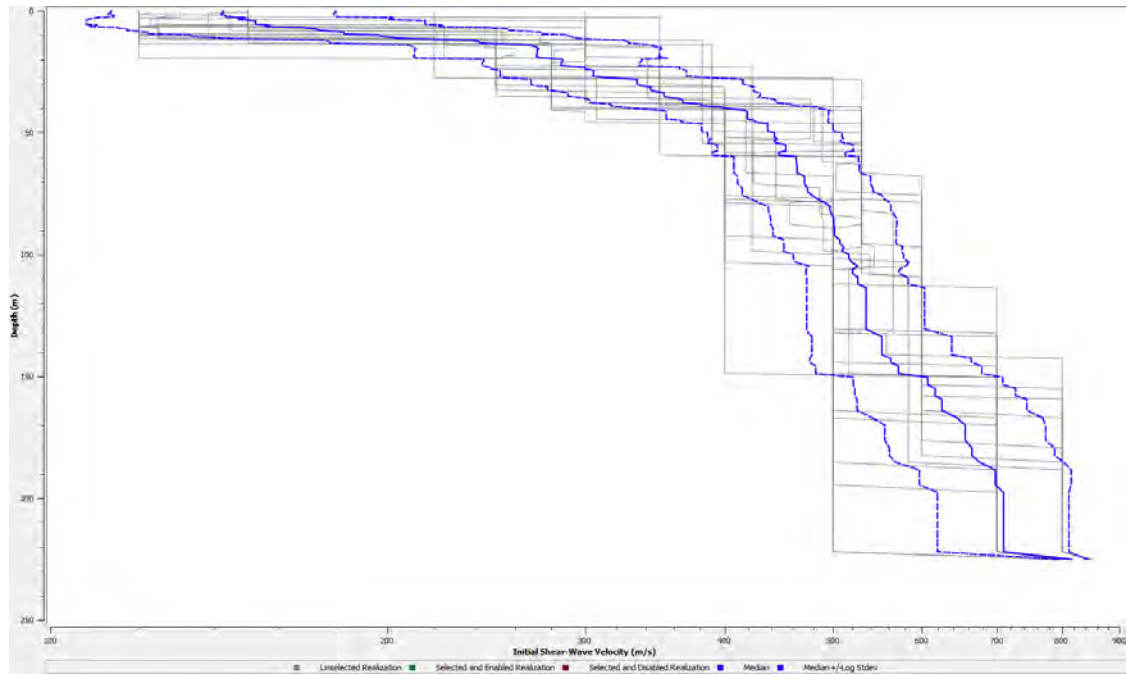
Spettri elastici relativi ai possibili scenari in base alla variazione della Vs, delle curve di smorzamento dei materiali e alla variazione dello spessore degli strati e del bedrock – n.20 scenari



## Funzione di trasferimento substrato sismico- superficie



### Profilo di Vs iniziale considerato nel Modello STRATA



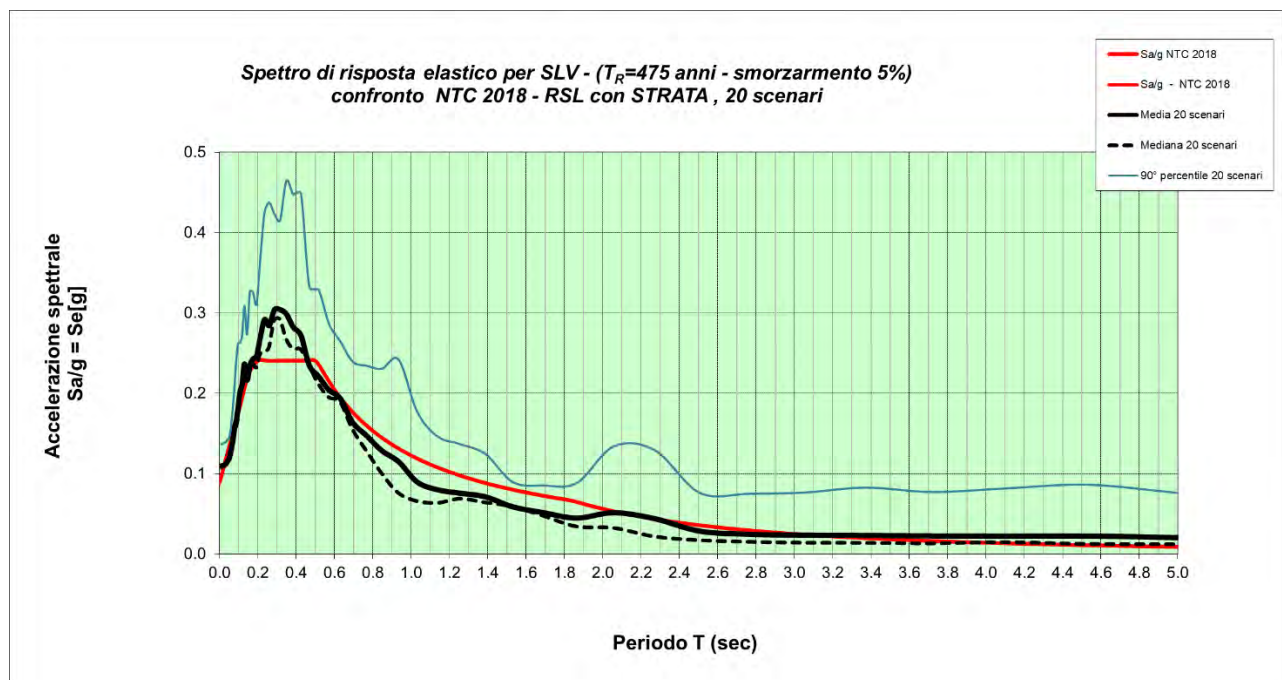
### Profilo di Vs finale considerato nel Modello STRATA





Facendo riferimento ai venti scenari elaborati, si osserva che lo spettro elastico orizzontale medio risulta sempre inferiore, al massimo uguale, allo spettro elastico semplificato proposto dalle NTC2018.

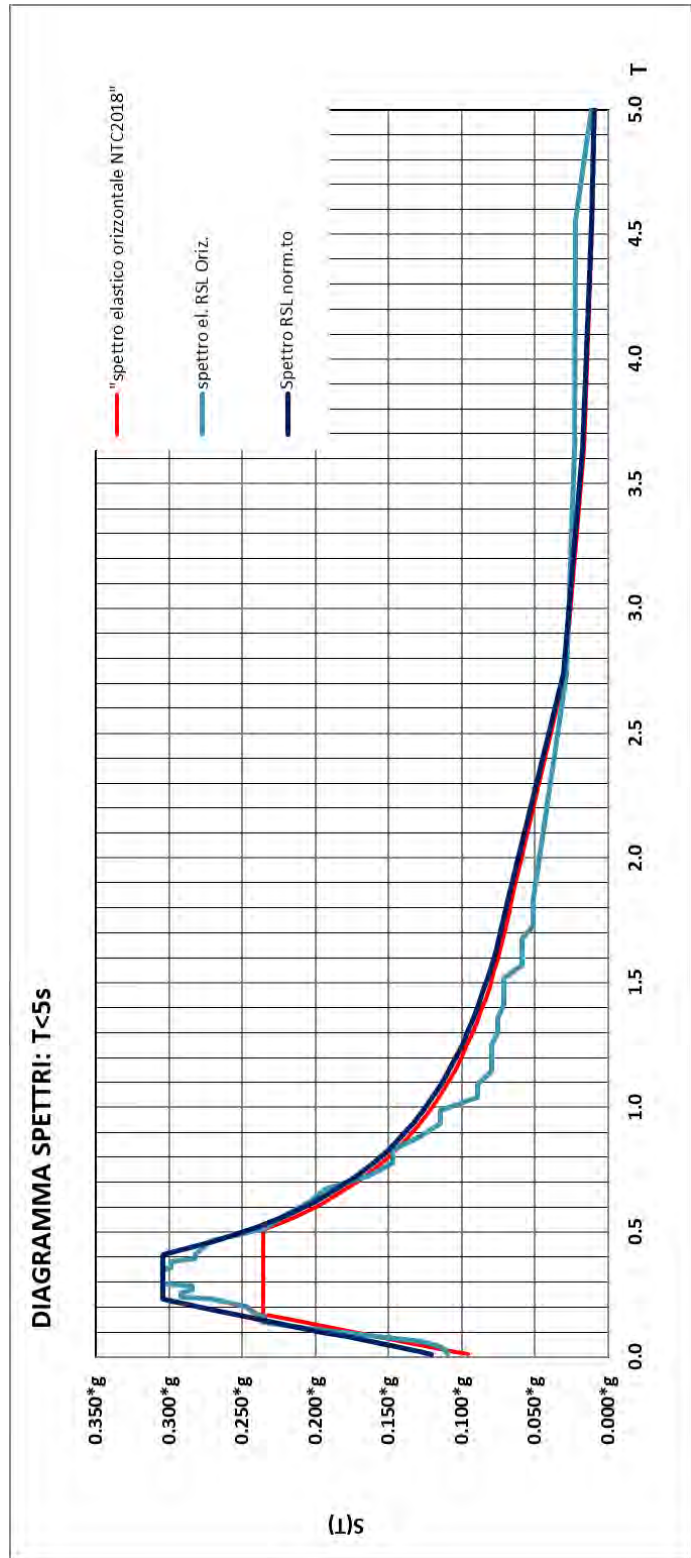
periodo al suolo $T_0$ (sec)	mediana	media	Stdev ( $\sigma$ )	media + $\sigma$	90° percentile
0	0.108g	0.109g	0.020g	0.137g	0.170g





Normalizzazione dello scenario media dei 20 scenari elaborati da RSL.

	T	Se(T)rsi	Se(T)norm
0<T<Tb	0.01	0.109*g	0.121*g
	0.020	0.110*g	0.129*g
	0.04	0.115*g	0.146*g
	0.06	0.128*g	0.162*g
	0.08	0.159*g	0.179*g
	0.10	0.182*g	0.196*g
	0.12	0.211*g	0.212*g
	0.14	0.236*g	0.229*g
	0.16	0.234*g	0.246*g
	0.18	0.243*g	0.263*g
Tbs<T<Tc	0.20	0.246*g	0.279*g
	0.23	0.270*g	0.304*g
	0.009	0.292*g	0.304*g
	0.25	0.292*g	0.304*g
	0.26	0.292*g	0.304*g
	0.27	0.285*g	0.304*g
	0.28	0.285*g	0.304*g
	0.28	0.285*g	0.304*g
	0.29	0.304*g	0.304*g
	0.30	0.304*g	0.304*g
Tcs<T<Td	0.31	0.304*g	0.304*g
	0.32	0.304*g	0.304*g
	0.33	0.304*g	0.304*g
	0.34	0.304*g	0.304*g
	0.35	0.304*g	0.304*g
	0.36	0.299*g	0.304*g
	0.37	0.299*g	0.304*g
	0.37	0.299*g	0.304*g
	0.38	0.299*g	0.304*g
	0.39	0.282*g	0.304*g
Tds<T	0.40	0.282*g	0.304*g
	0.41	0.282*g	0.304*g
	0.053	0.272*g	0.270*g
	0.52	0.235*g	0.242*g
	0.57	0.221*g	0.220*g
	0.62	0.204*g	0.201*g
	0.67	0.194*g	0.185*g
	0.73	0.163*g	0.172*g
	0.78	0.147*g	0.160*g
	0.83	0.147*g	0.150*g
	0.88	0.128*g	0.141*g
	0.94	0.115*g	0.133*g
	0.99	0.115*g	0.126*g
	1.04	0.089*g	0.120*g
	1.09	0.089*g	0.114*g
	1.15	0.080*g	0.109*g
	1.20	0.080*g	0.104*g
	1.25	0.080*g	0.100*g
	1.31	0.075*g	0.096*g
	1.36	0.075*g	0.092*g
	1.41	0.071*g	0.088*g
	1.46	0.071*g	0.085*g
	1.52	0.071*g	0.082*g
	1.57	0.058*g	0.080*g
	1.62	0.058*g	0.077*g
	1.67	0.058*g	0.075*g
	1.73	0.051*g	0.072*g
	1.78	0.051*g	0.070*g
	1.83	0.051*g	0.068*g
	0.908	0.028*g	0.030*g
	3.65	0.023*g	0.017*g
	4.55	0.022*g	0.011*g



Novembre, 2023

## **Allegato 4**

### **Verifica potenziale liquefazione**

## LIQUEFACTION ANALYSIS REPORT

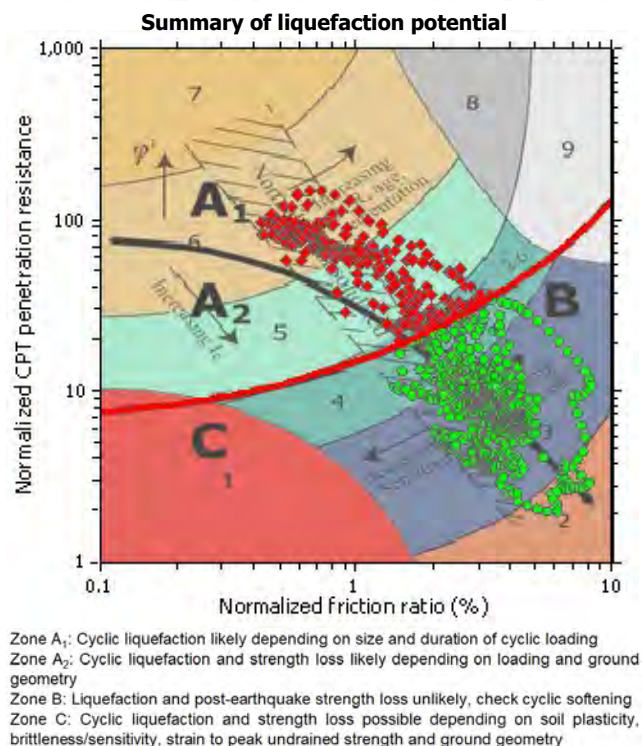
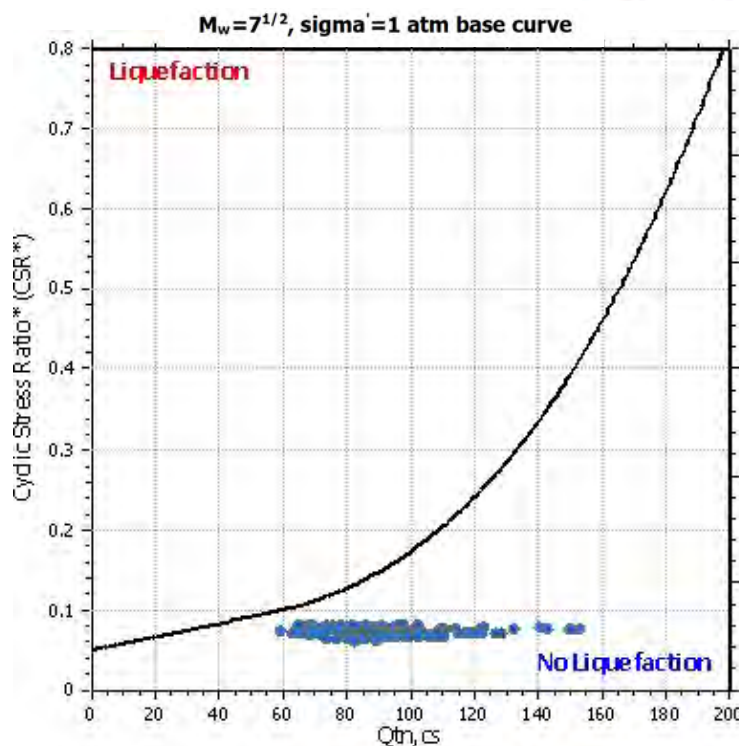
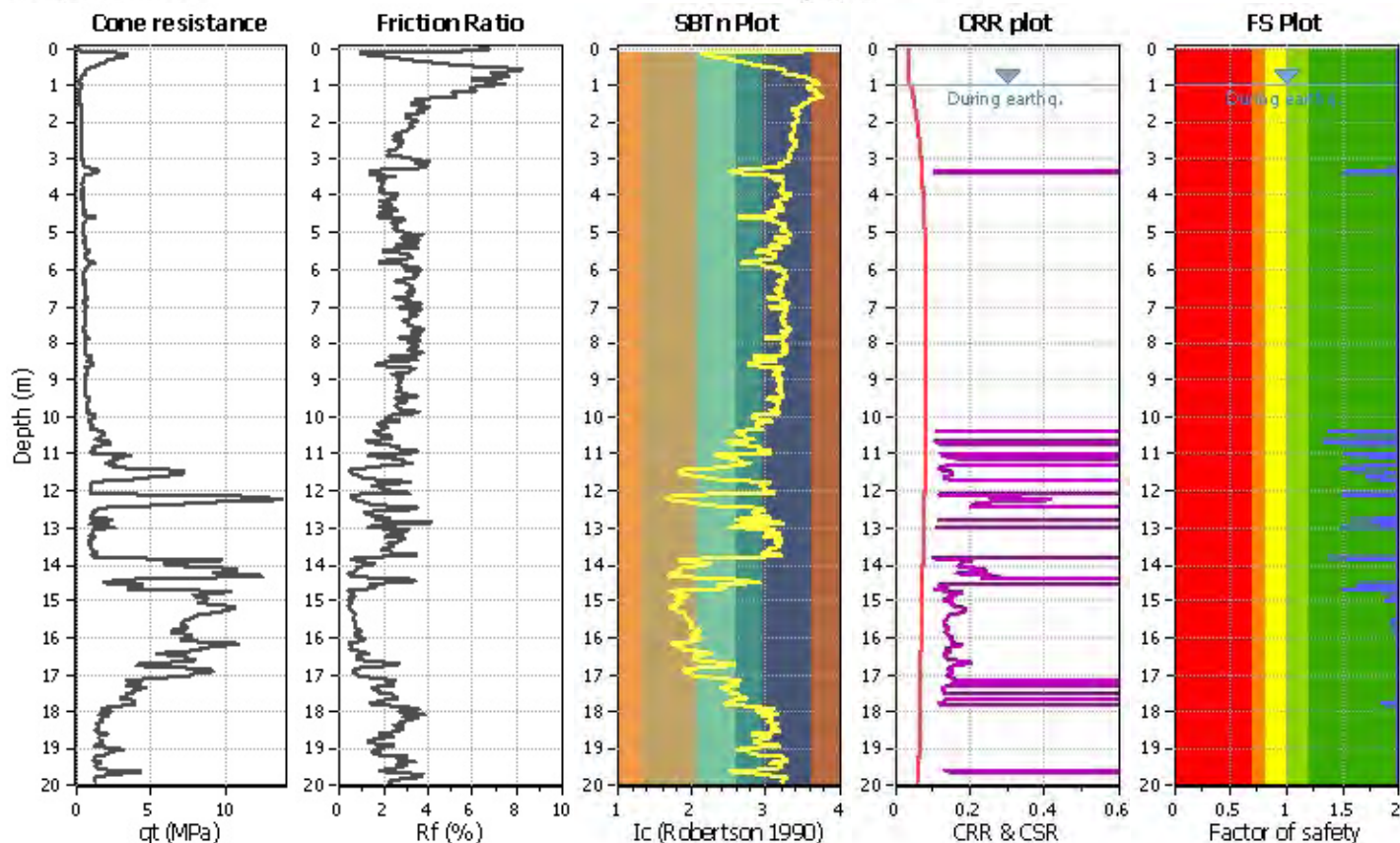
**Project title :**

**Location :**

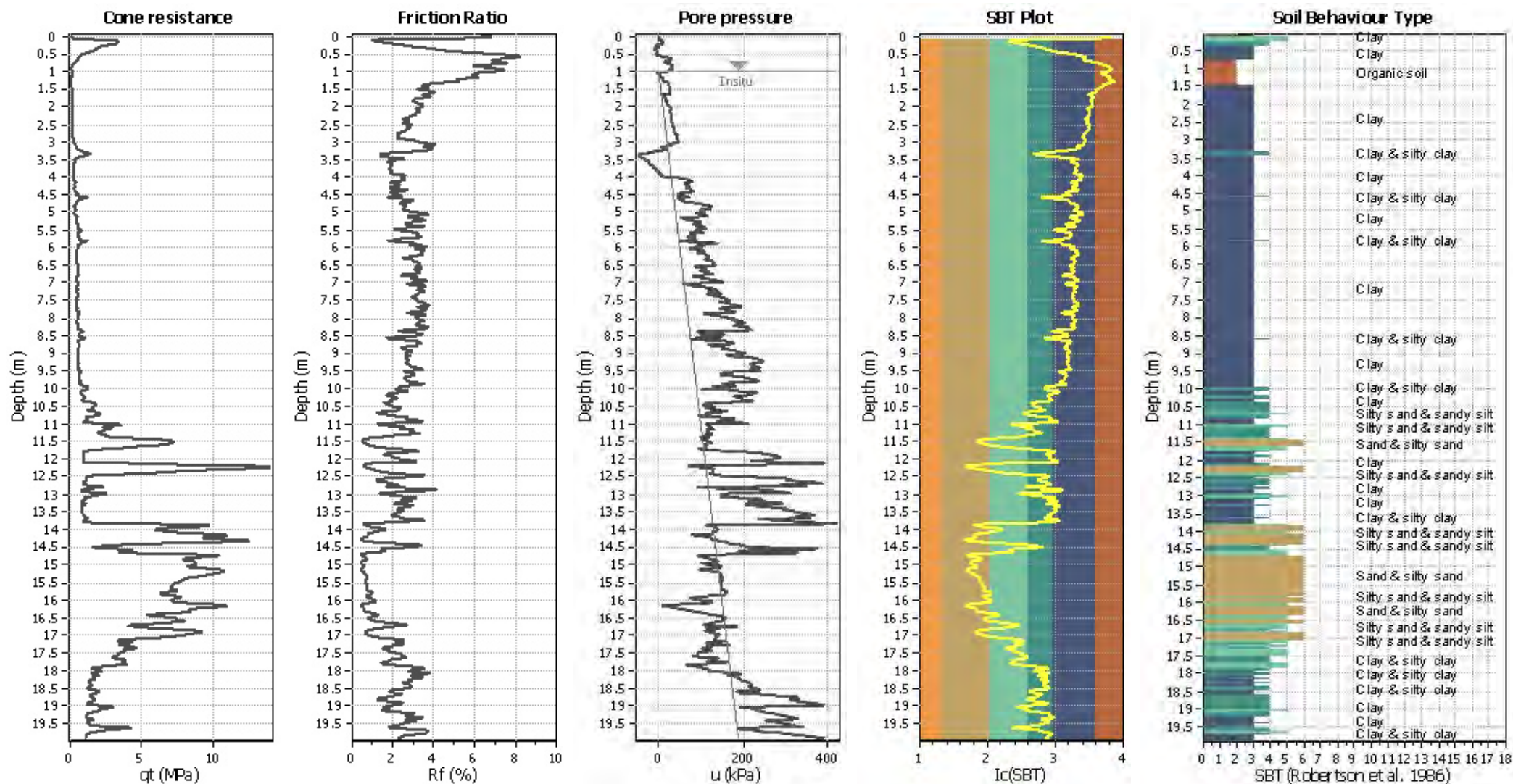
**CPT file : CPTU1**

### Input parameters and analysis data










Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based



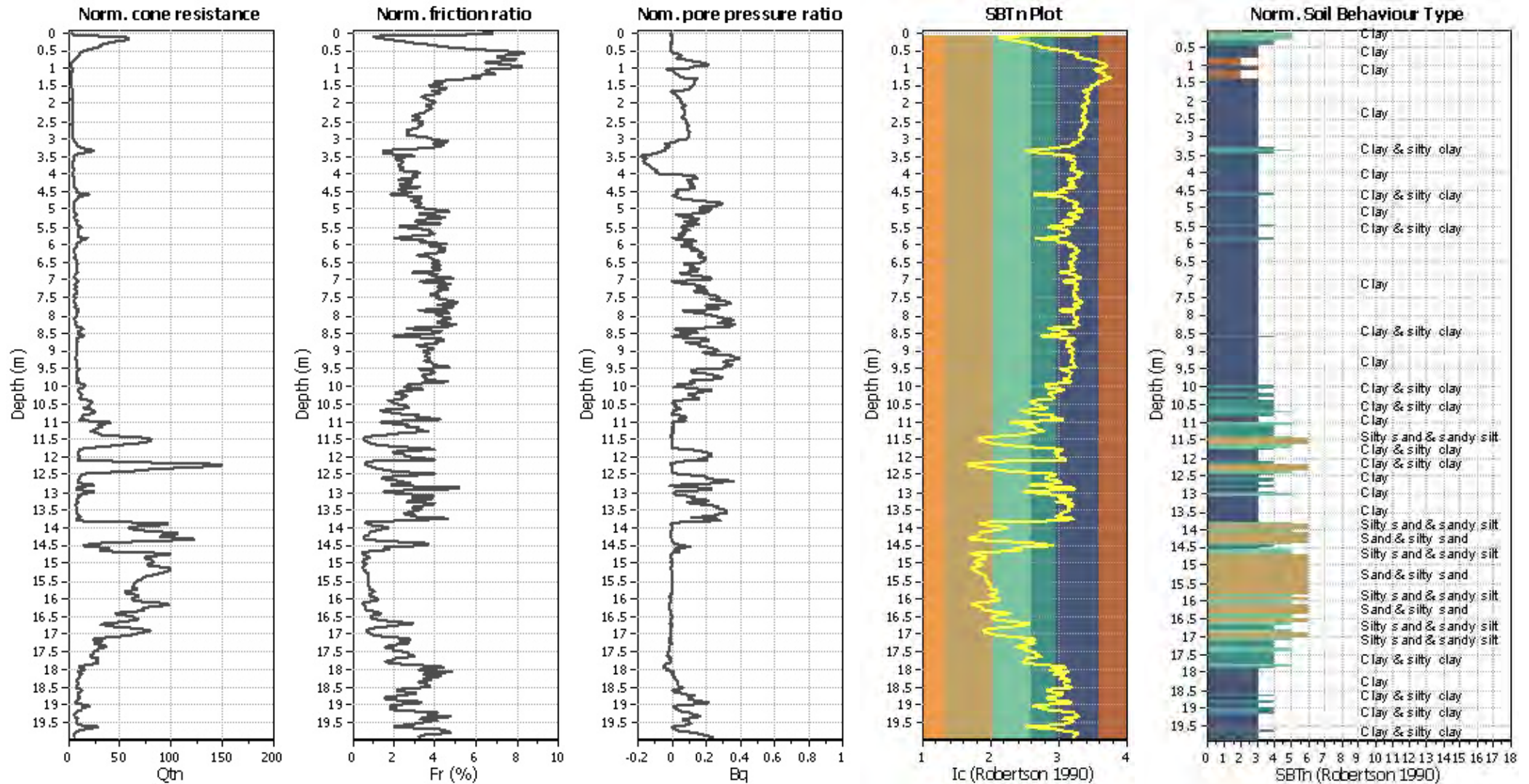




Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>o</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

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

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

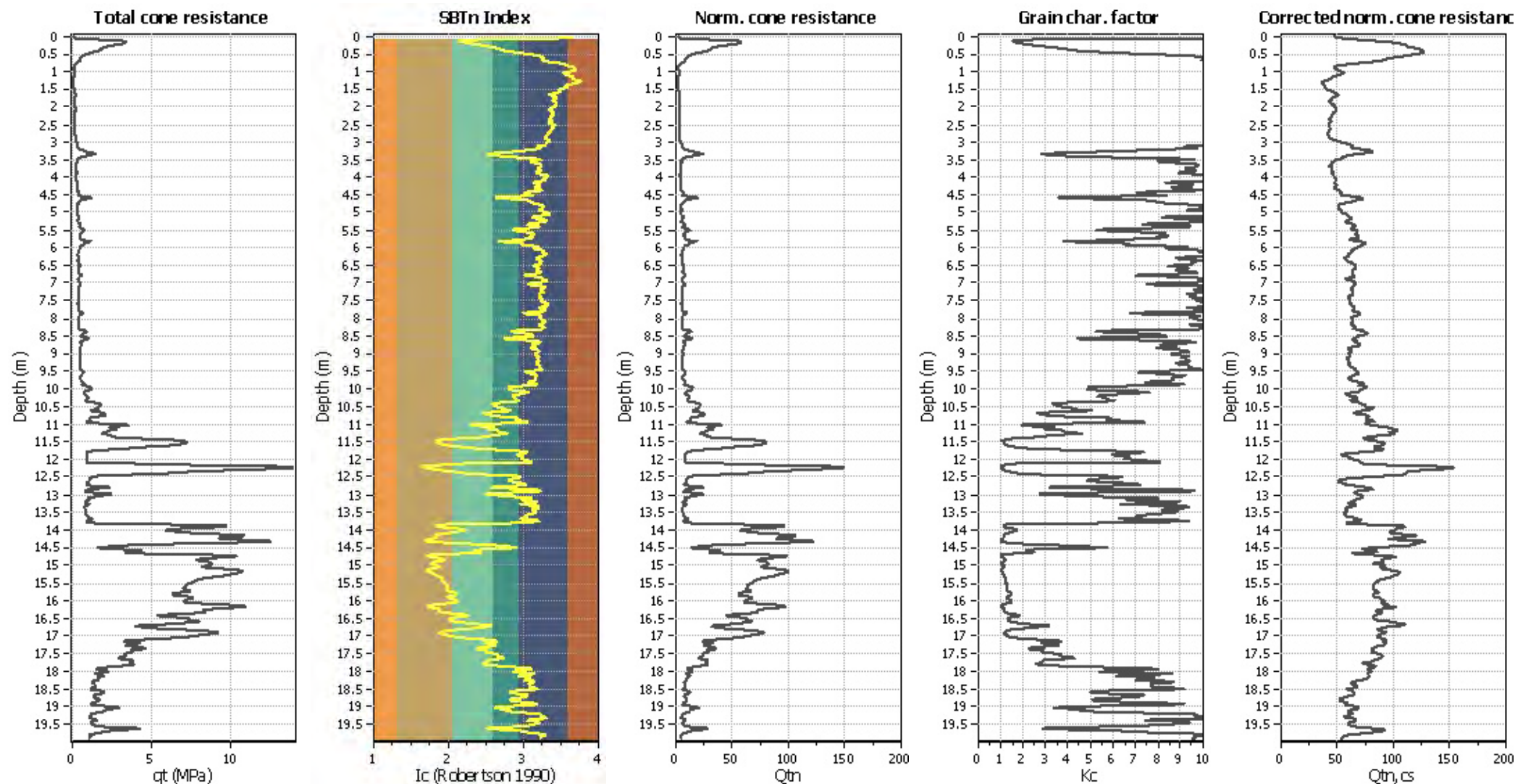
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



## Liquefaction analysis overall plots (intermediate res)

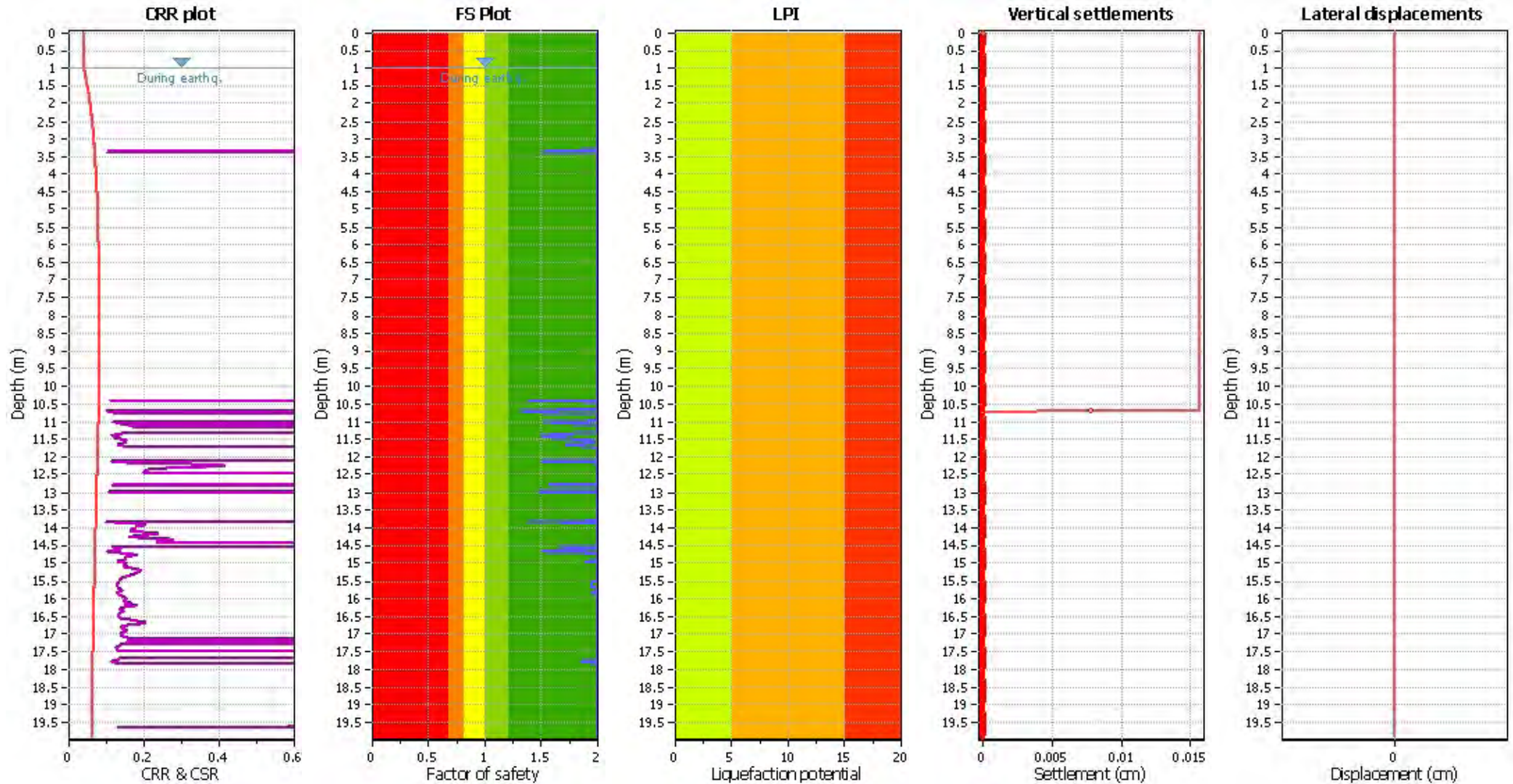


### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{cs}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

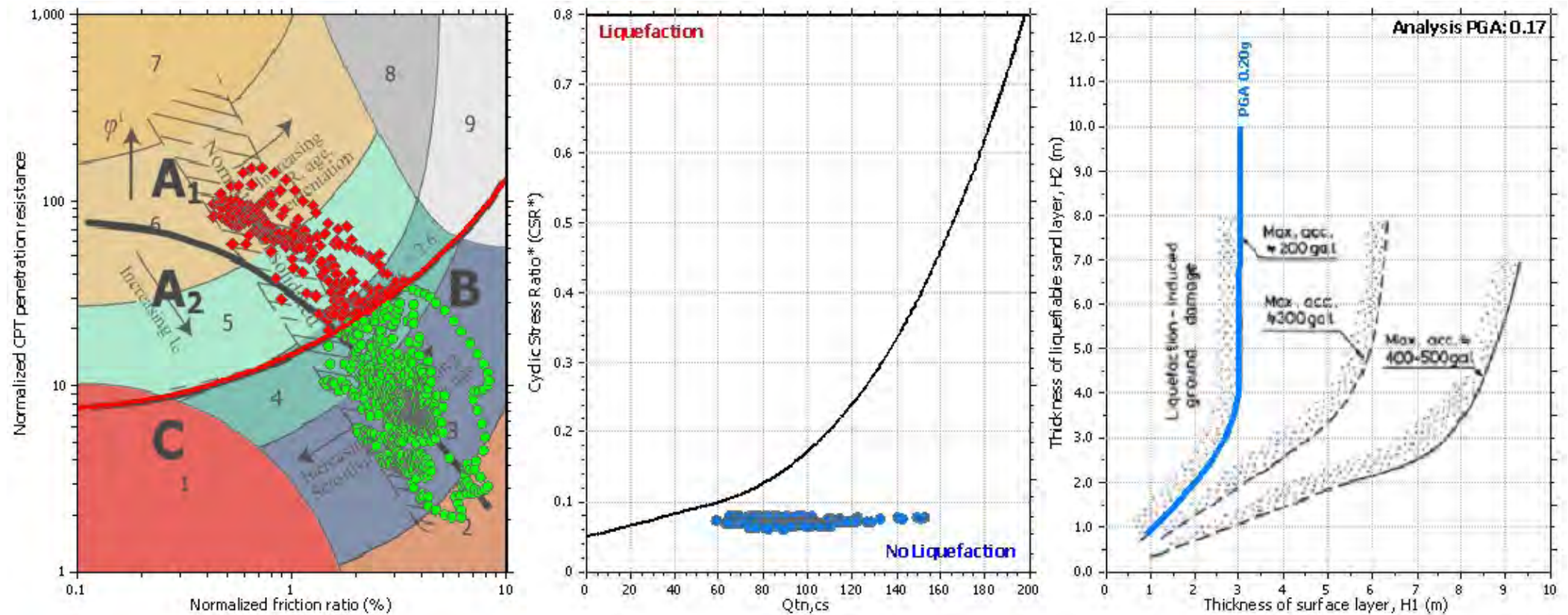
### F.S. color scheme

<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk

## Liquefaction analysis summary plo

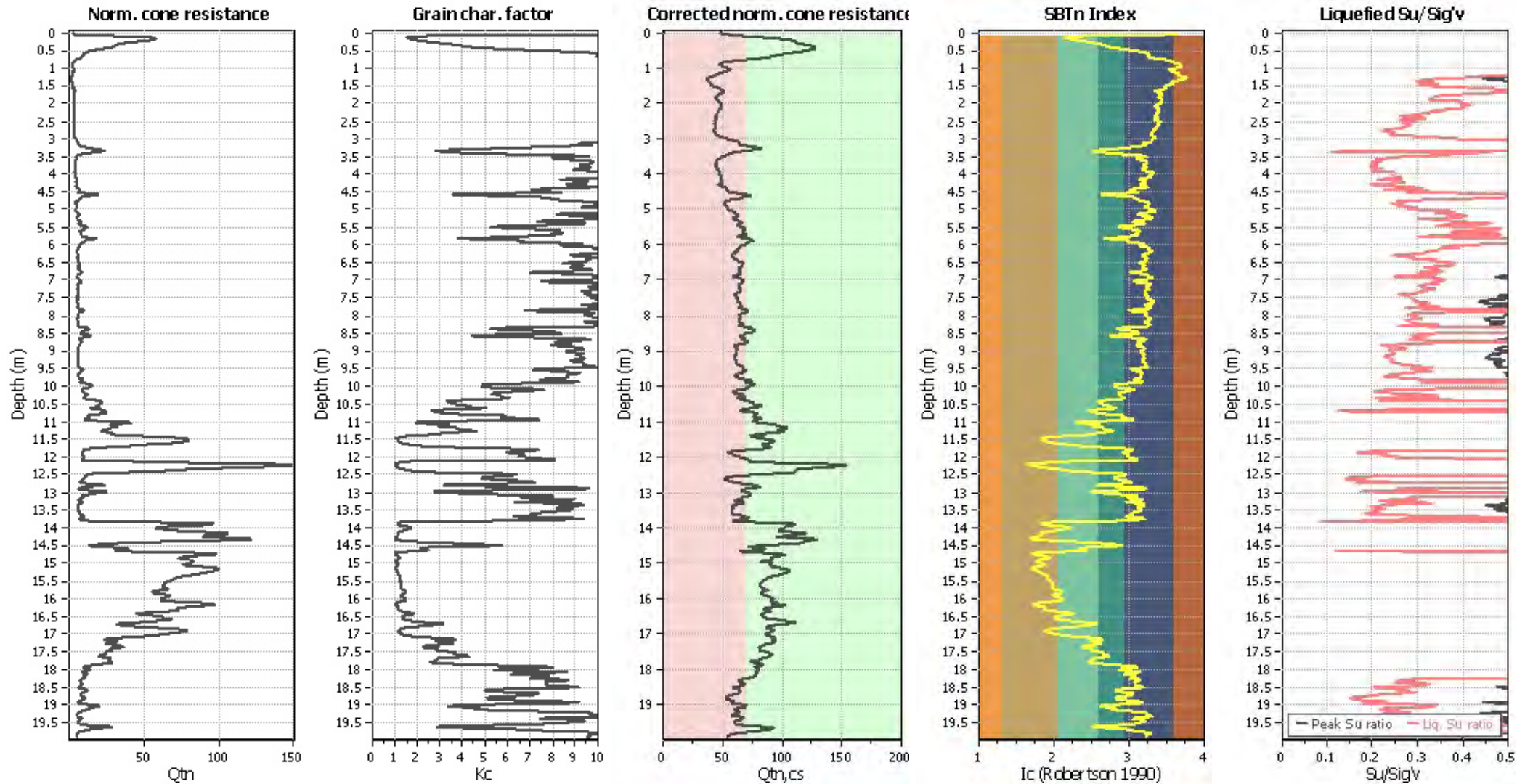


## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	1.67	0.00	8.34	0.02	0.00
3.34	1.61	0.00	8.33	0.02	0.00	3.36	1.56	0.00	8.32	0.02	0.00
3.38	1.51	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	1.38	0.00	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	1.33	0.00	4.67	0.02	0.00	10.68	1.33	0.00	4.66	0.02	0.00
10.70	1.38	0.00	4.65	0.02	0.00	10.72	1.48	0.00	4.64	0.02	0.00
10.74	1.56	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	1.52	0.00	4.50	0.02	0.00
11.02	1.59	0.00	4.49	0.02	0.00	11.04	1.66	0.00	4.48	0.02	0.00
11.06	1.77	0.00	4.47	0.02	0.00	11.08	1.91	0.00	4.46	0.02	0.00
11.10	2.00	0.00	4.45	0.02	0.00	11.12	2.00	0.00	4.44	0.02	0.00
11.14	2.00	0.00	4.43	0.02	0.00	11.16	2.00	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	1.90	0.00	4.35	0.02	0.00	11.32	1.76	0.00	4.34	0.02	0.00
11.34	1.66	0.00	4.33	0.02	0.00	11.36	1.55	0.00	4.32	0.02	0.00
11.38	1.50	0.00	4.31	0.02	0.00	11.40	1.52	0.00	4.30	0.02	0.00
11.42	1.63	0.00	4.29	0.02	0.00	11.44	1.76	0.00	4.28	0.02	0.00
11.46	1.60	0.00	4.27	0.02	0.00	11.48	1.88	0.00	4.26	0.02	0.00
11.50	1.93	0.00	4.25	0.02	0.00	11.52	1.96	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.98	0.00	4.23	0.02	0.00	11.56	1.95	0.00	4.22	0.02	0.00
11.58	1.91	0.00	4.21	0.02	0.00	11.60	1.85	0.00	4.20	0.02	0.00
11.62	1.77	0.00	4.19	0.02	0.00	11.64	1.72	0.00	4.18	0.02	0.00
11.66	1.74	0.00	4.17	0.02	0.00	11.68	1.83	0.00	4.16	0.02	0.00
11.70	1.91	0.00	4.15	0.02	0.00	11.72	1.94	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	1.51	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	2.00	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	1.58	0.00	3.61	0.02	0.00	12.80	1.62	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	1.48	0.00	3.51	0.02	0.00	13.00	1.52	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	2.00	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	2.00	0.00	3.38	0.02	0.00
13.26	2.00	0.00	3.37	0.02	0.00	13.28	2.00	0.00	3.36	0.02	0.00
13.30	2.00	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	2.00	0.00	3.33	0.02	0.00	13.36	2.00	0.00	3.32	0.02	0.00
13.38	2.00	0.00	3.31	0.02	0.00	13.40	2.00	0.00	3.30	0.02	0.00
13.42	2.00	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	1.38	0.00	3.09	0.02	0.00	13.84	1.64	0.00	3.08	0.02	0.00
13.86	2.00	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	2.00	0.00	3.04	0.02	0.00
13.94	2.00	0.00	3.03	0.02	0.00	13.96	2.00	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	2.00	0.00	2.97	0.02	0.00	14.08	2.00	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	1.65	0.00	2.73	0.02	0.00	14.56	1.80	0.00	2.72	0.02	0.00
14.58	1.97	0.00	2.71	0.02	0.00	14.60	1.98	0.00	2.70	0.02	0.00
14.62	1.81	0.00	2.69	0.02	0.00	14.64	1.60	0.00	2.68	0.02	0.00
14.66	1.51	0.00	2.67	0.02	0.00	14.68	1.65	0.00	2.66	0.02	0.00
14.70	1.87	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	1.92	0.00	2.54	0.02	0.00
14.94	1.91	0.00	2.53	0.02	0.00	14.96	1.90	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	1.98	0.00	2.25	0.02	0.00	15.52	1.97	0.00	2.24	0.02	0.00
15.54	1.95	0.00	2.23	0.02	0.00	15.56	1.94	0.00	2.22	0.02	0.00
15.58	1.94	0.00	2.21	0.02	0.00	15.60	1.95	0.00	2.20	0.02	0.00
15.62	1.95	0.00	2.19	0.02	0.00	15.64	1.95	0.00	2.18	0.02	0.00
15.66	1.95	0.00	2.17	0.02	0.00	15.68	1.97	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	1.98	0.00	2.09	0.02	0.00	15.84	1.95	0.00	2.08	0.02	0.00
15.86	1.95	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	2.00	0.00	1.73	0.02	0.00	16.56	2.00	0.00	1.72	0.02	0.00
16.58	2.00	0.00	1.71	0.02	0.00	16.60	2.00	0.00	1.70	0.02	0.00
16.62	2.00	0.00	1.69	0.02	0.00	16.64	2.00	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	2.00	0.00	1.63	0.02	0.00	16.76	2.00	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	2.00	0.00	1.54	0.02	0.00
16.94	2.00	0.00	1.53	0.02	0.00	16.96	2.00	0.00	1.52	0.02	0.00
16.98	2.00	0.00	1.51	0.02	0.00	17.00	2.00	0.00	1.50	0.02	0.00
17.02	2.00	0.00	1.49	0.02	0.00	17.04	2.00	0.00	1.48	0.02	0.00
17.06	2.00	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	1.94	0.00	1.13	0.02	0.00	17.76	1.86	0.00	1.12	0.02	0.00
17.78	1.86	0.00	1.11	0.02	0.00	17.80	1.95	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

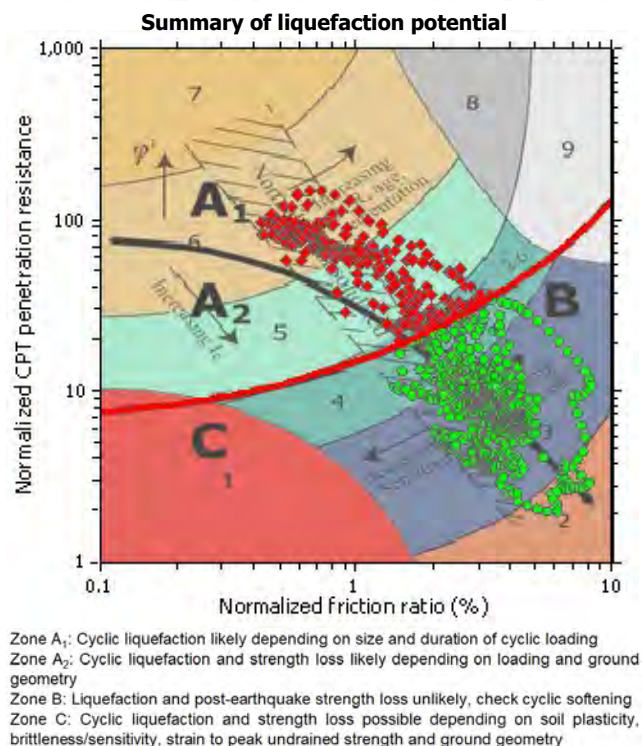
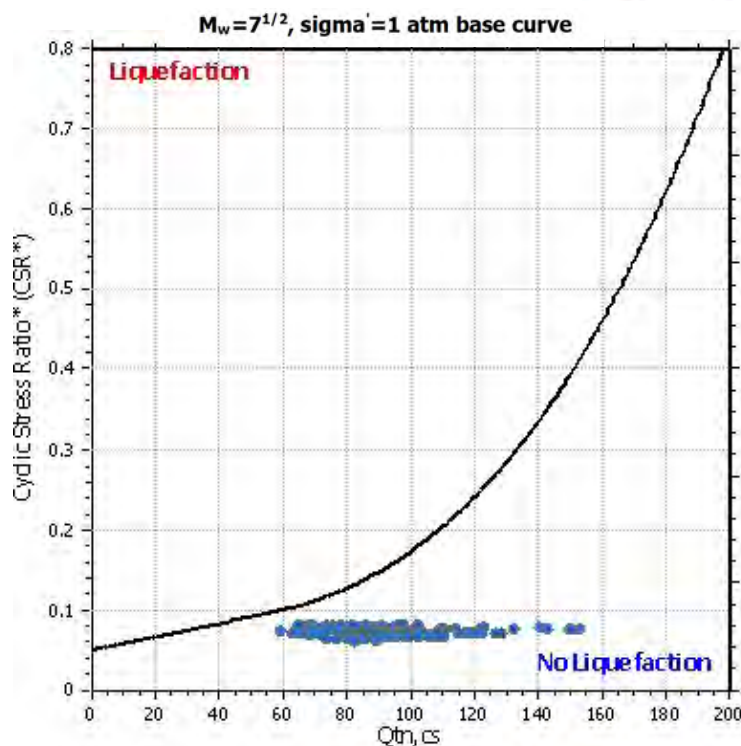
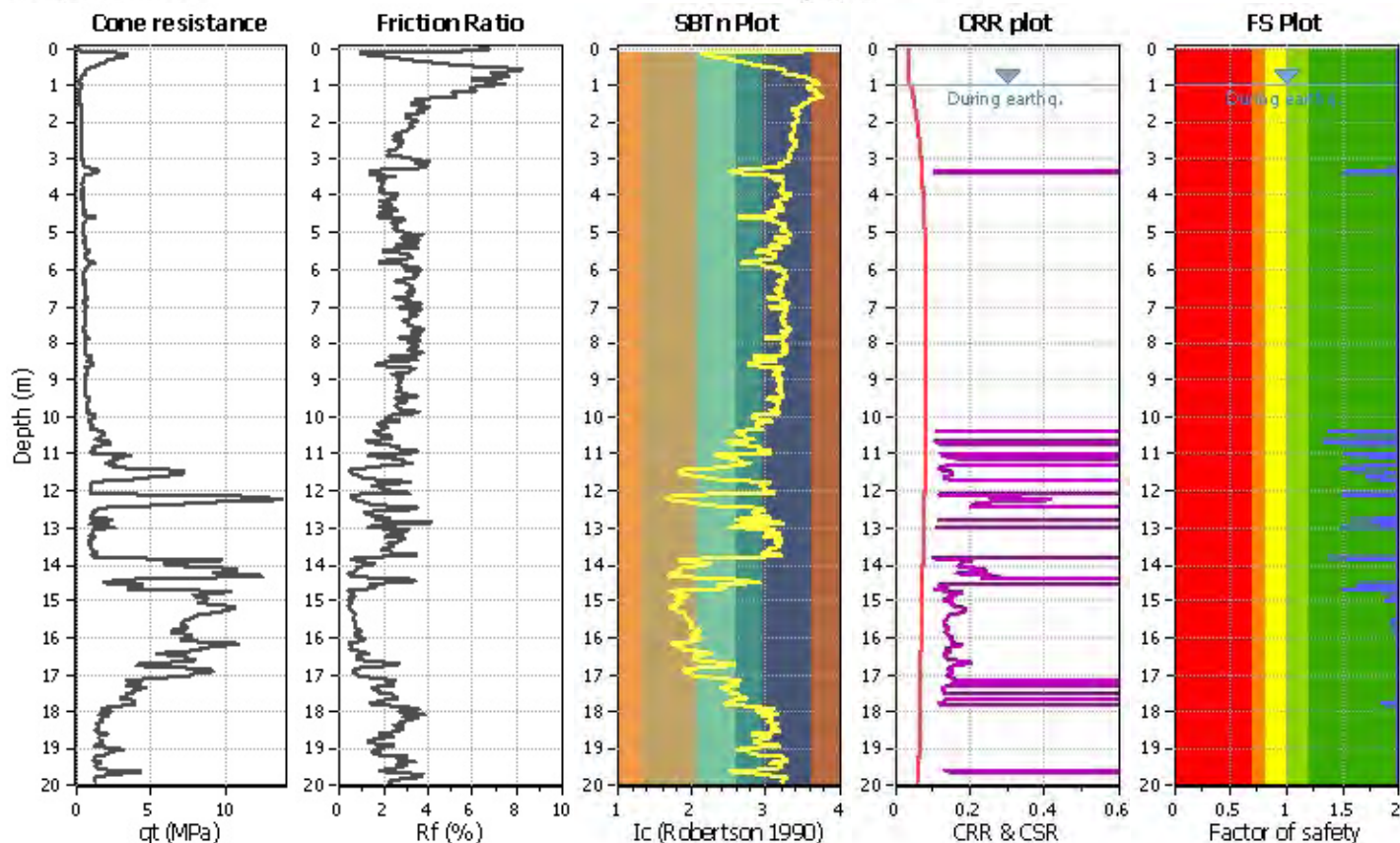
**Project title :**

**Location :**

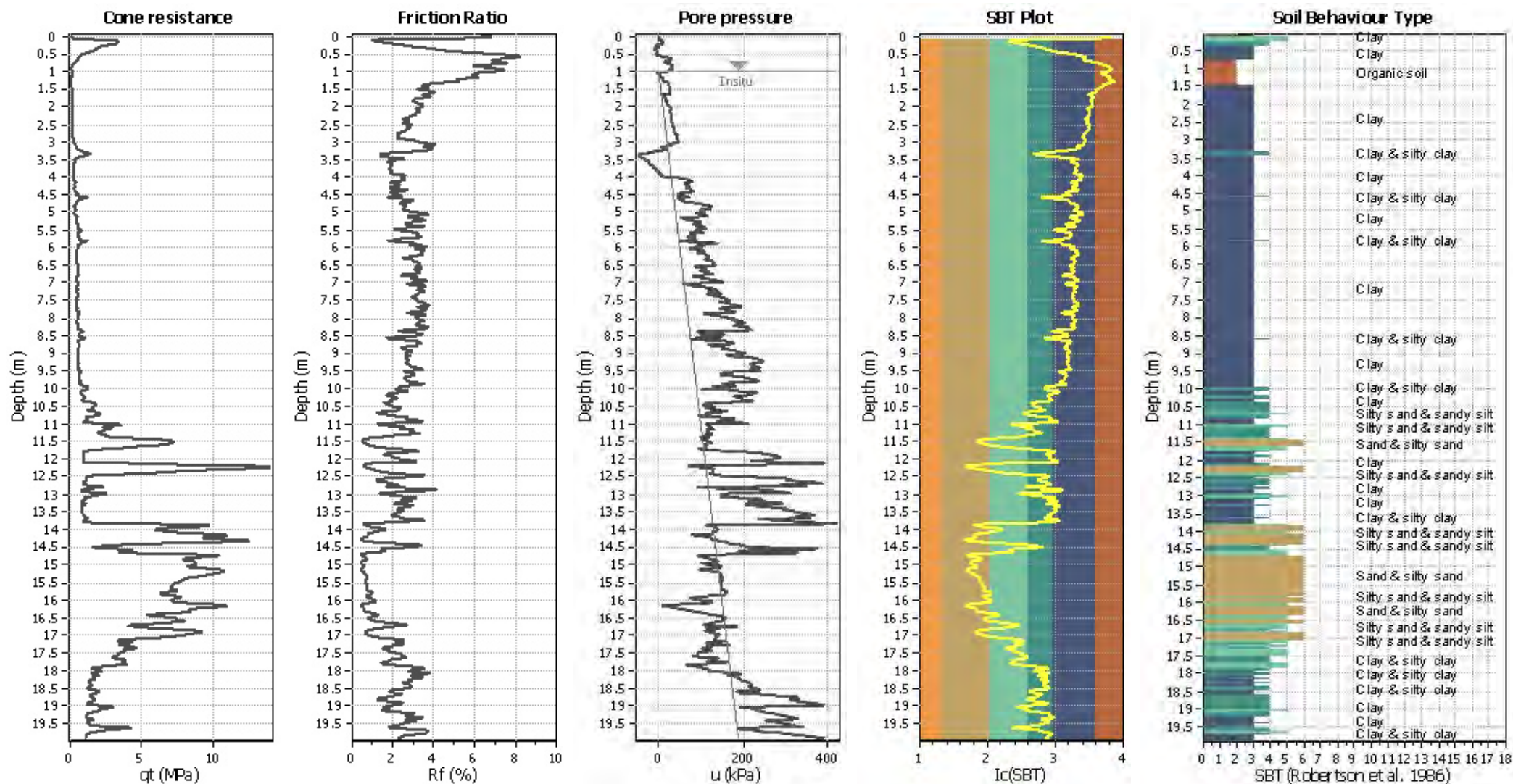
**CPT file : CPTU1**

### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based



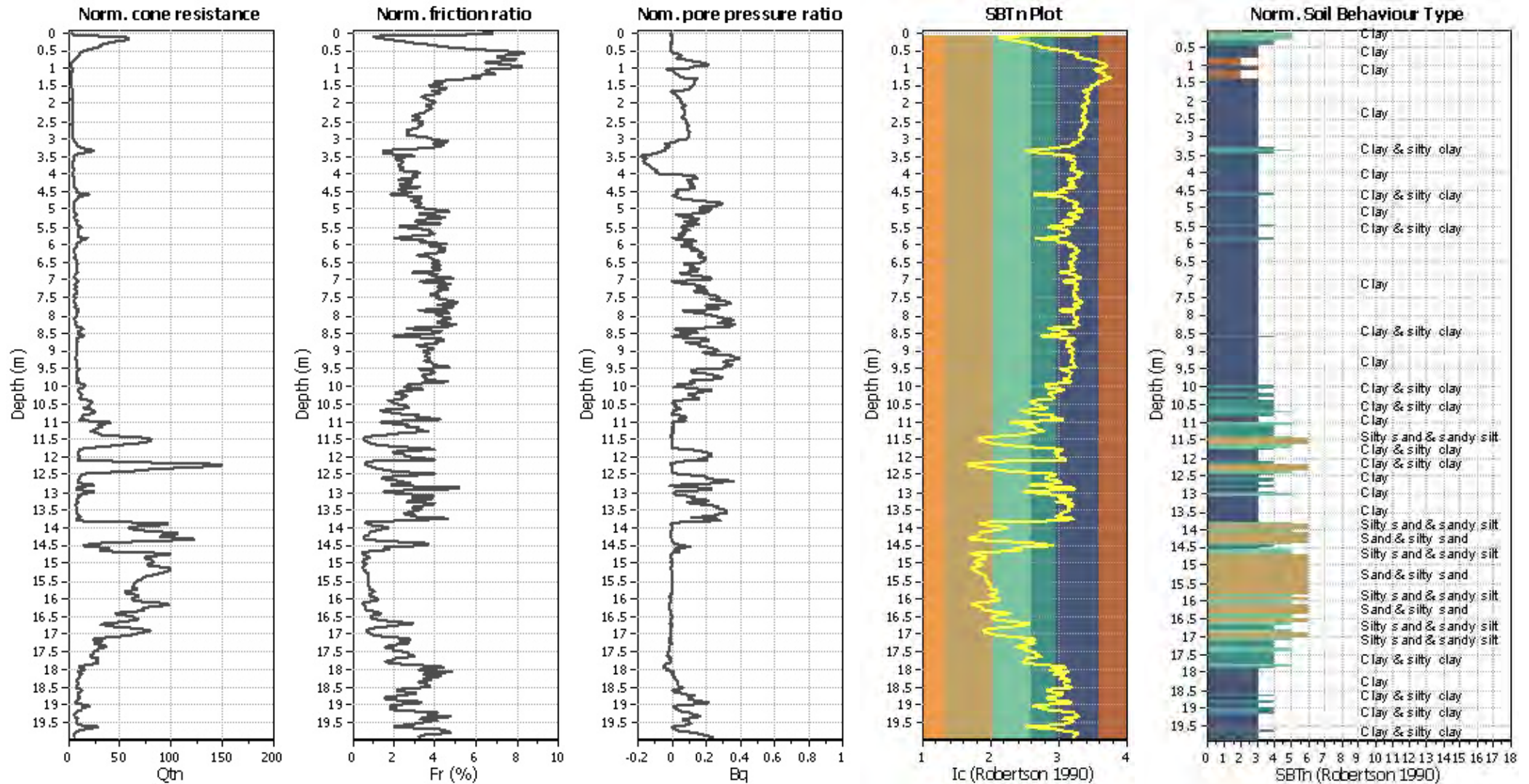




Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>o</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

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

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

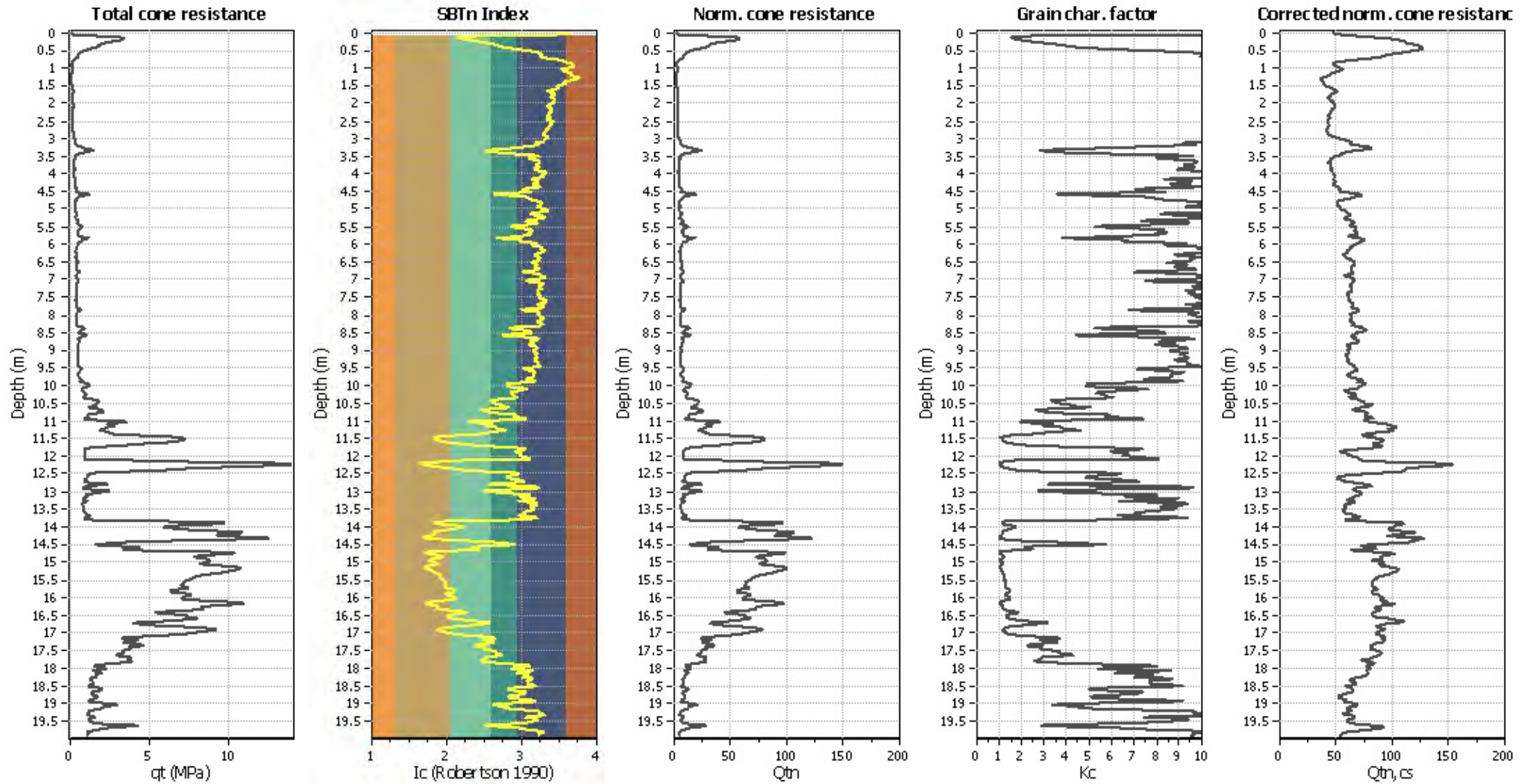
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



## Liquefaction analysis overall plots (intermediate res)

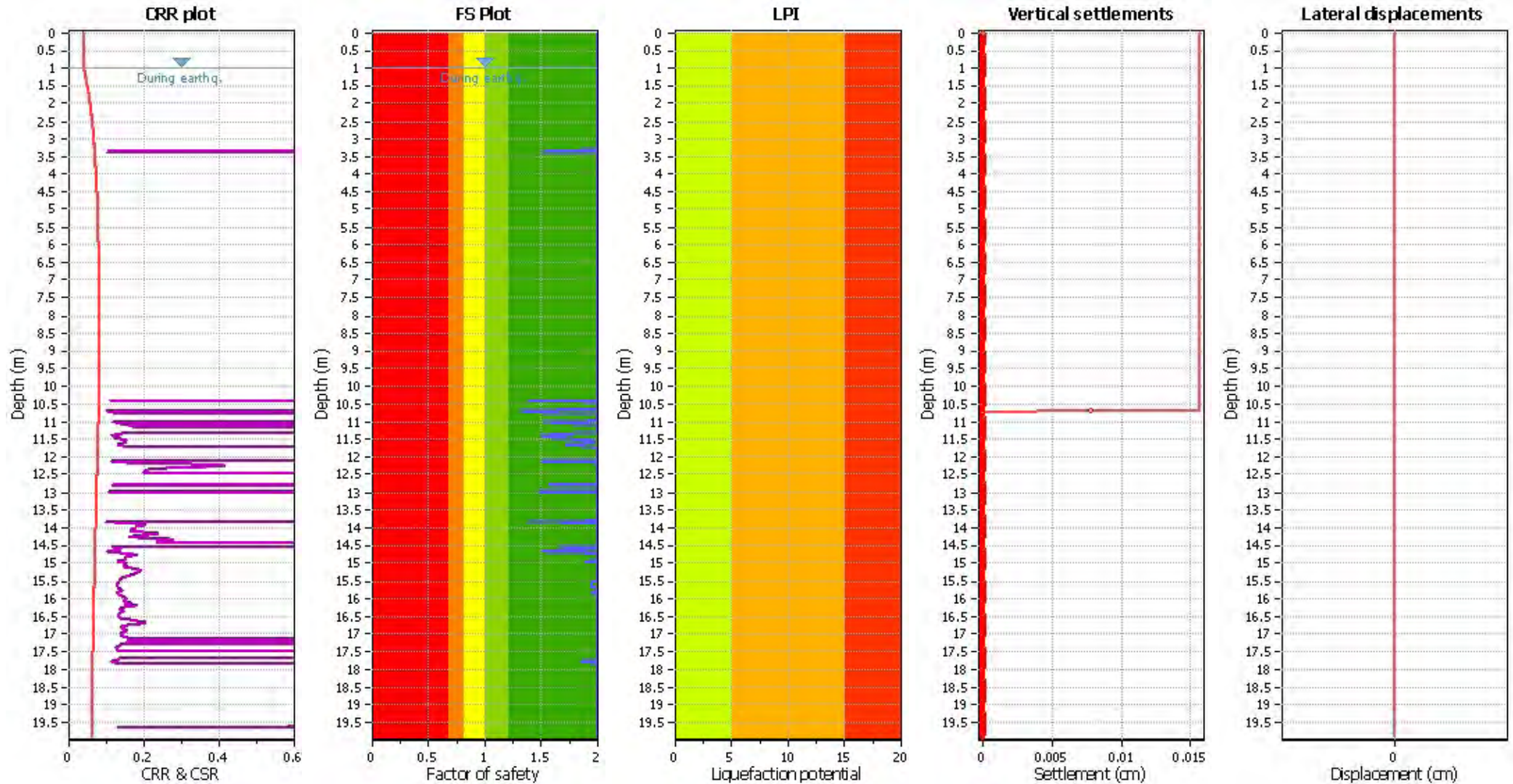


### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

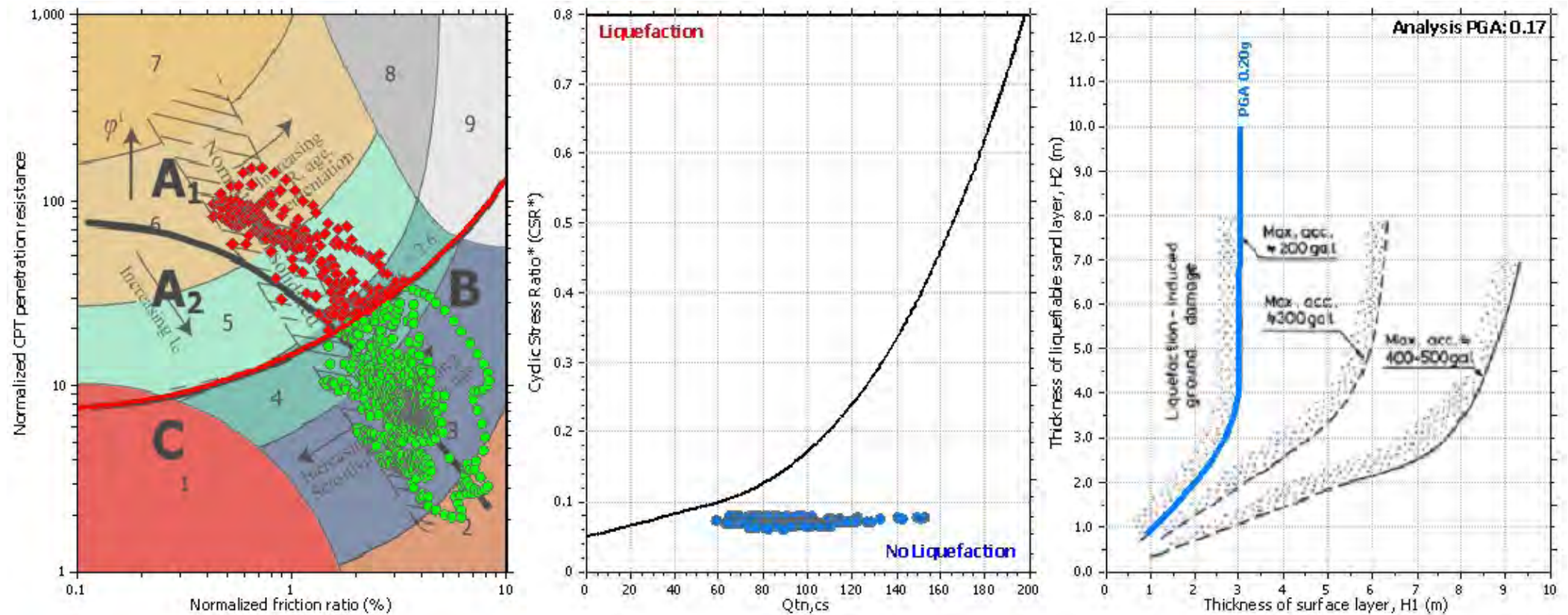
### F.S. color scheme

<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk

## Liquefaction analysis summary plo

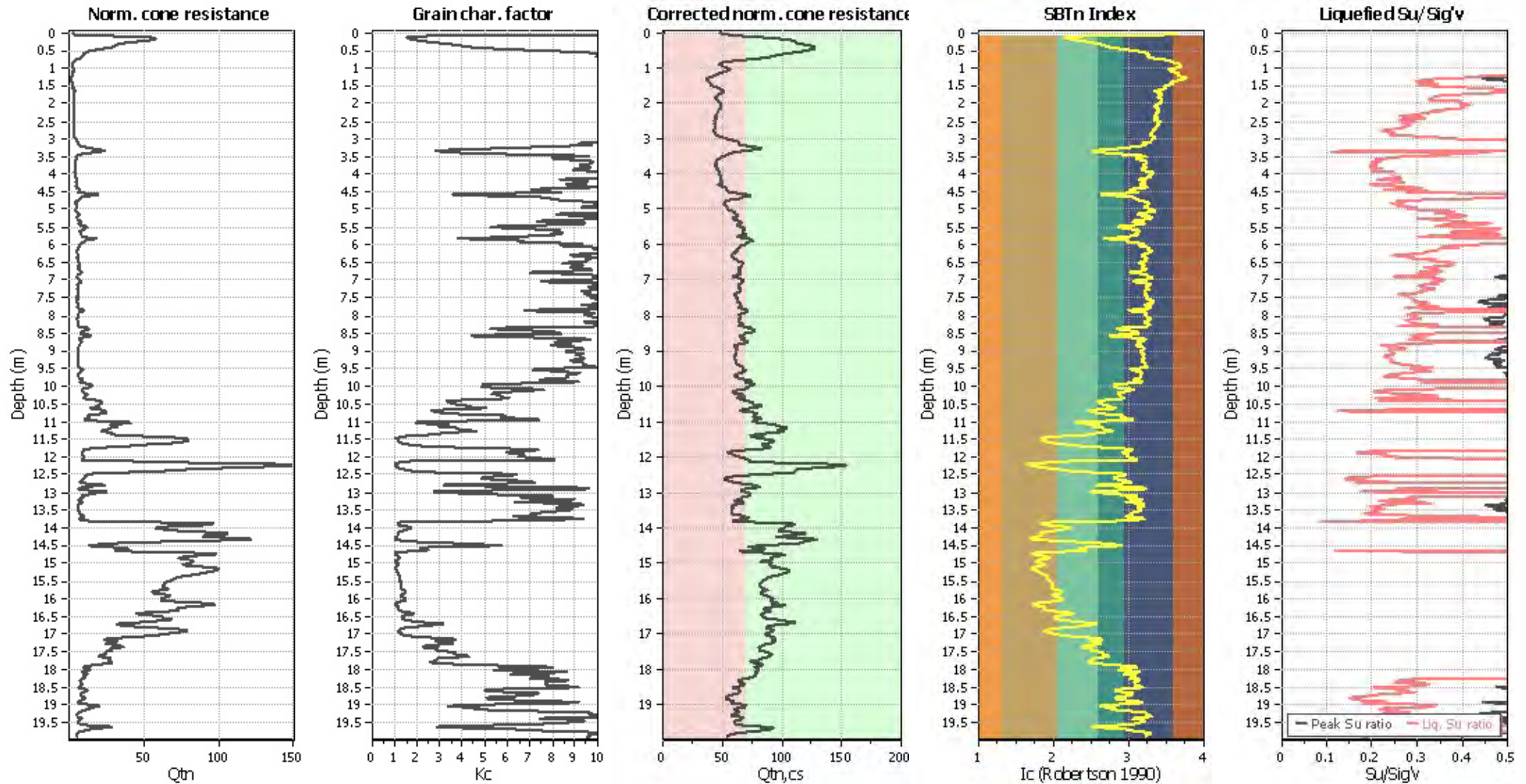


### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	1.67	0.00	8.34	0.02	0.00
3.34	1.61	0.00	8.33	0.02	0.00	3.36	1.56	0.00	8.32	0.02	0.00
3.38	1.51	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	1.38	0.00	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	1.33	0.00	4.67	0.02	0.00	10.68	1.33	0.00	4.66	0.02	0.00
10.70	1.38	0.00	4.65	0.02	0.00	10.72	1.48	0.00	4.64	0.02	0.00
10.74	1.56	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	1.52	0.00	4.50	0.02	0.00
11.02	1.59	0.00	4.49	0.02	0.00	11.04	1.66	0.00	4.48	0.02	0.00
11.06	1.77	0.00	4.47	0.02	0.00	11.08	1.91	0.00	4.46	0.02	0.00
11.10	2.00	0.00	4.45	0.02	0.00	11.12	2.00	0.00	4.44	0.02	0.00
11.14	2.00	0.00	4.43	0.02	0.00	11.16	2.00	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	1.90	0.00	4.35	0.02	0.00	11.32	1.76	0.00	4.34	0.02	0.00
11.34	1.66	0.00	4.33	0.02	0.00	11.36	1.55	0.00	4.32	0.02	0.00
11.38	1.50	0.00	4.31	0.02	0.00	11.40	1.52	0.00	4.30	0.02	0.00
11.42	1.63	0.00	4.29	0.02	0.00	11.44	1.76	0.00	4.28	0.02	0.00
11.46	1.60	0.00	4.27	0.02	0.00	11.48	1.88	0.00	4.26	0.02	0.00
11.50	1.93	0.00	4.25	0.02	0.00	11.52	1.96	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.98	0.00	4.23	0.02	0.00	11.56	1.95	0.00	4.22	0.02	0.00
11.58	1.91	0.00	4.21	0.02	0.00	11.60	1.85	0.00	4.20	0.02	0.00
11.62	1.77	0.00	4.19	0.02	0.00	11.64	1.72	0.00	4.18	0.02	0.00
11.66	1.74	0.00	4.17	0.02	0.00	11.68	1.83	0.00	4.16	0.02	0.00
11.70	1.91	0.00	4.15	0.02	0.00	11.72	1.94	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	1.51	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	2.00	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	1.58	0.00	3.61	0.02	0.00	12.80	1.62	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	1.48	0.00	3.51	0.02	0.00	13.00	1.52	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	2.00	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	2.00	0.00	3.38	0.02	0.00
13.26	2.00	0.00	3.37	0.02	0.00	13.28	2.00	0.00	3.36	0.02	0.00
13.30	2.00	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	2.00	0.00	3.33	0.02	0.00	13.36	2.00	0.00	3.32	0.02	0.00
13.38	2.00	0.00	3.31	0.02	0.00	13.40	2.00	0.00	3.30	0.02	0.00
13.42	2.00	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	1.38	0.00	3.09	0.02	0.00	13.84	1.64	0.00	3.08	0.02	0.00
13.86	2.00	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	2.00	0.00	3.04	0.02	0.00
13.94	2.00	0.00	3.03	0.02	0.00	13.96	2.00	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	2.00	0.00	2.97	0.02	0.00	14.08	2.00	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	1.65	0.00	2.73	0.02	0.00	14.56	1.80	0.00	2.72	0.02	0.00
14.58	1.97	0.00	2.71	0.02	0.00	14.60	1.98	0.00	2.70	0.02	0.00
14.62	1.81	0.00	2.69	0.02	0.00	14.64	1.60	0.00	2.68	0.02	0.00
14.66	1.51	0.00	2.67	0.02	0.00	14.68	1.65	0.00	2.66	0.02	0.00
14.70	1.87	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	1.92	0.00	2.54	0.02	0.00
14.94	1.91	0.00	2.53	0.02	0.00	14.96	1.90	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	1.98	0.00	2.25	0.02	0.00	15.52	1.97	0.00	2.24	0.02	0.00
15.54	1.95	0.00	2.23	0.02	0.00	15.56	1.94	0.00	2.22	0.02	0.00
15.58	1.94	0.00	2.21	0.02	0.00	15.60	1.95	0.00	2.20	0.02	0.00
15.62	1.95	0.00	2.19	0.02	0.00	15.64	1.95	0.00	2.18	0.02	0.00
15.66	1.95	0.00	2.17	0.02	0.00	15.68	1.97	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	1.98	0.00	2.09	0.02	0.00	15.84	1.95	0.00	2.08	0.02	0.00
15.86	1.95	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	2.00	0.00	1.73	0.02	0.00	16.56	2.00	0.00	1.72	0.02	0.00
16.58	2.00	0.00	1.71	0.02	0.00	16.60	2.00	0.00	1.70	0.02	0.00
16.62	2.00	0.00	1.69	0.02	0.00	16.64	2.00	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	2.00	0.00	1.63	0.02	0.00	16.76	2.00	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	2.00	0.00	1.54	0.02	0.00
16.94	2.00	0.00	1.53	0.02	0.00	16.96	2.00	0.00	1.52	0.02	0.00
16.98	2.00	0.00	1.51	0.02	0.00	17.00	2.00	0.00	1.50	0.02	0.00
17.02	2.00	0.00	1.49	0.02	0.00	17.04	2.00	0.00	1.48	0.02	0.00
17.06	2.00	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	1.94	0.00	1.13	0.02	0.00	17.76	1.86	0.00	1.12	0.02	0.00
17.78	1.86	0.00	1.11	0.02	0.00	17.80	1.95	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

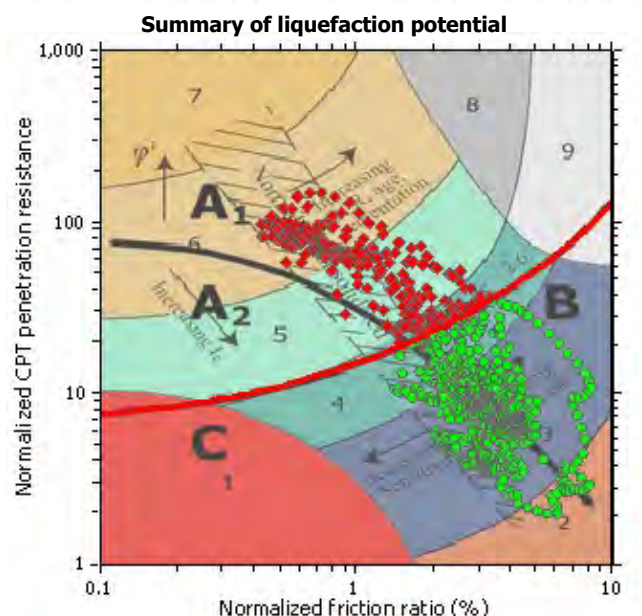
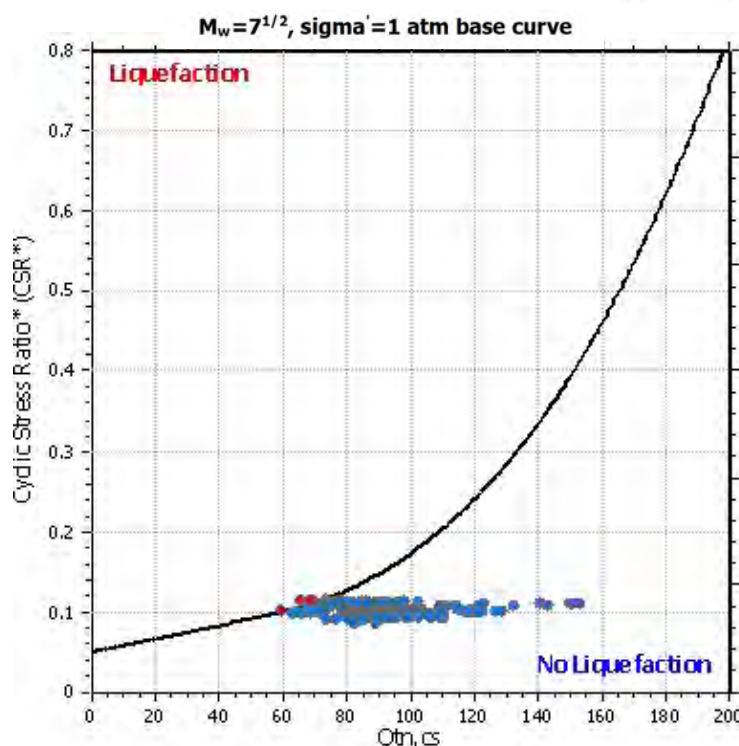
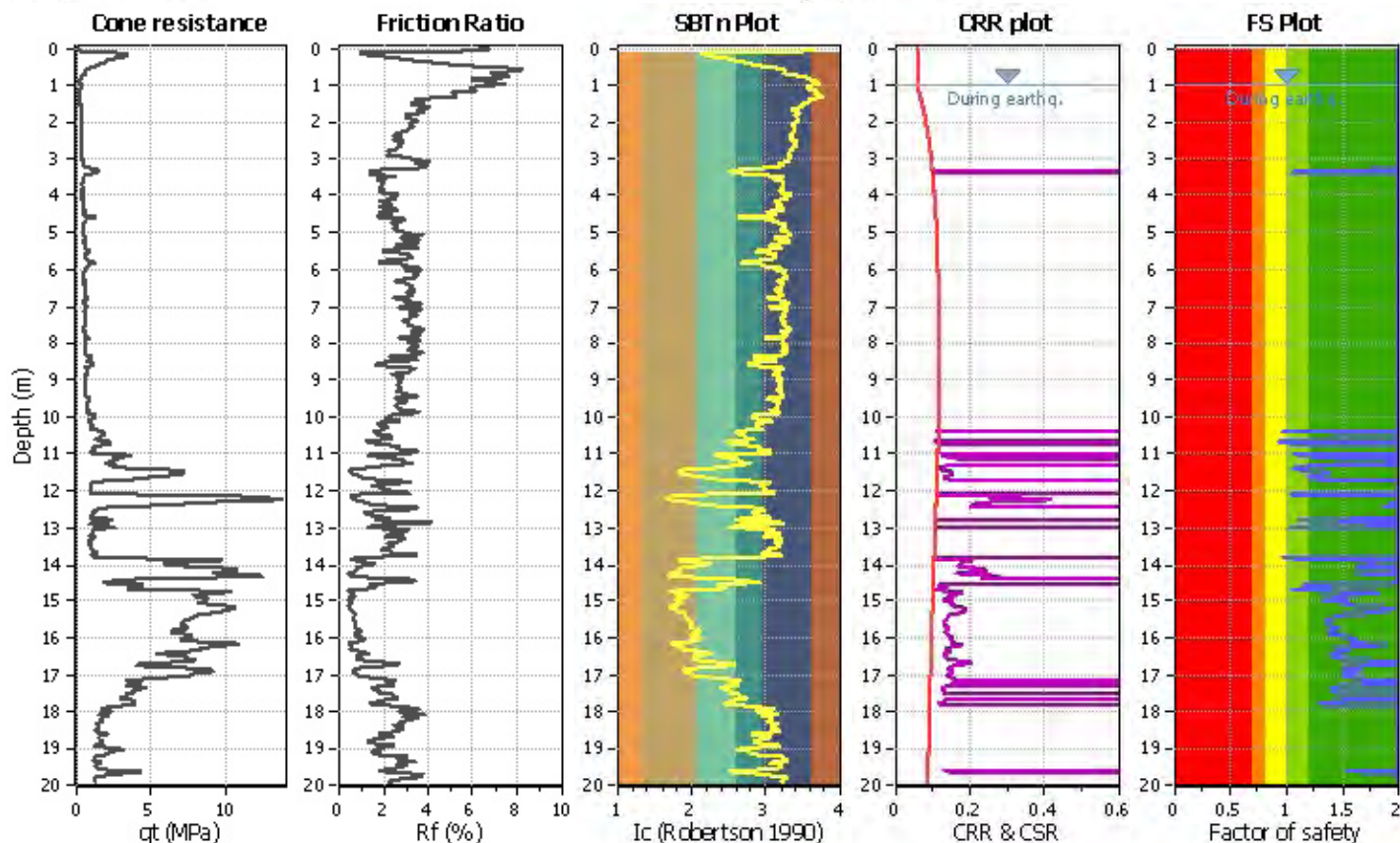
**Project title :**

**Location :**

**CPT file : CPTU1**

### Input parameters and analysis data

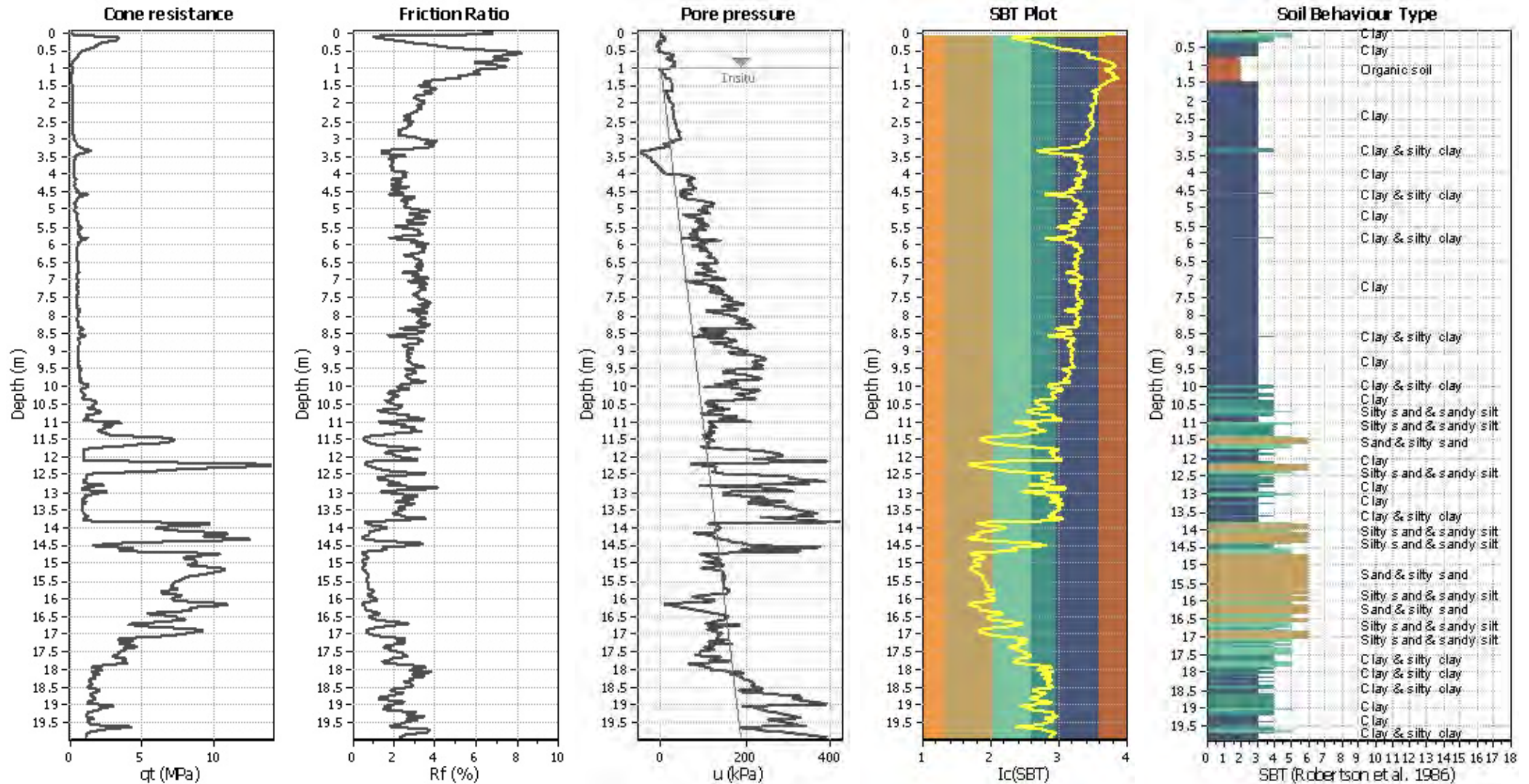
Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.75	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based



Zone A<sub>1</sub>: Cyclic liquefaction likely depending on size and duration of cyclic loading  
 Zone A<sub>2</sub>: 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 plo



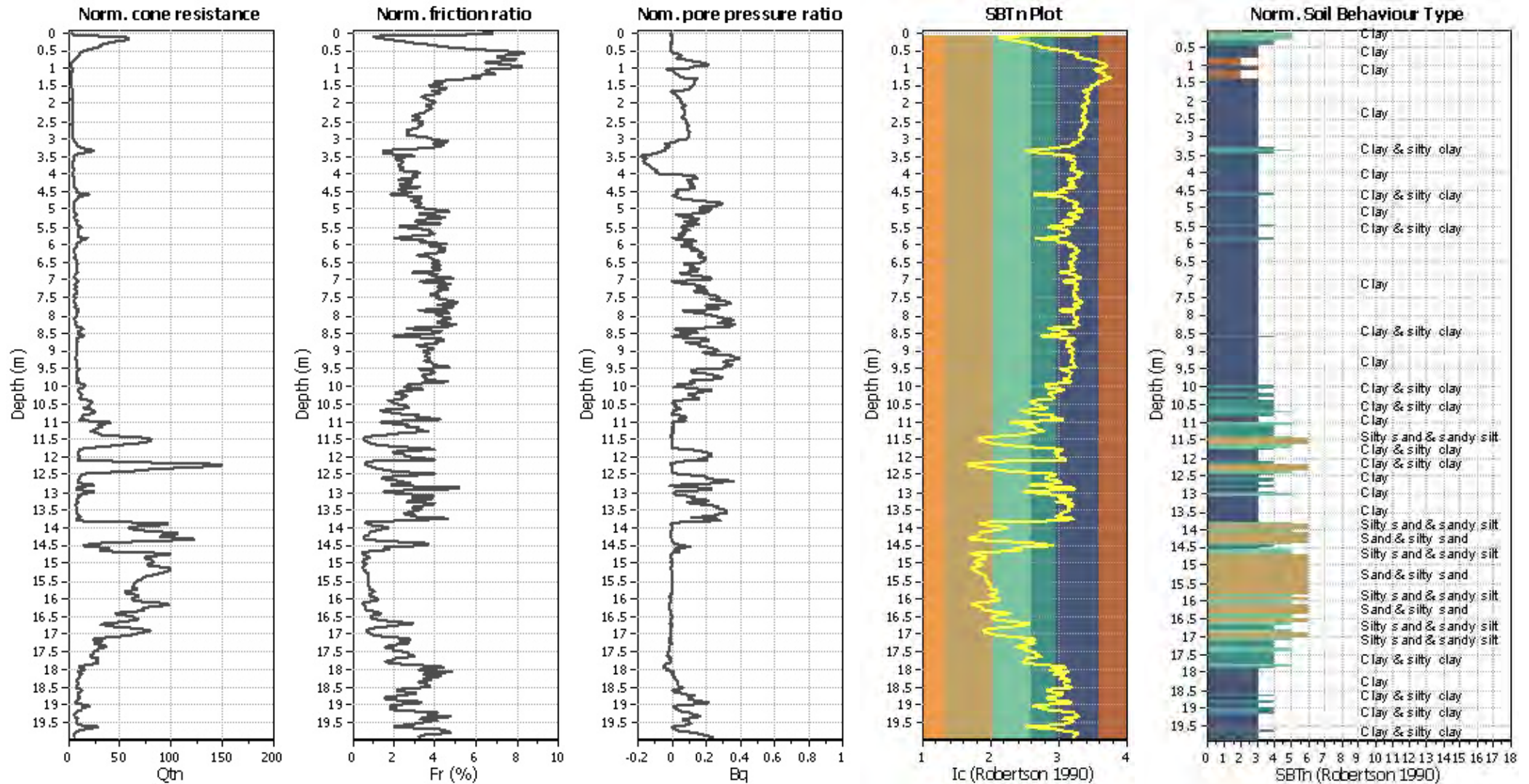
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

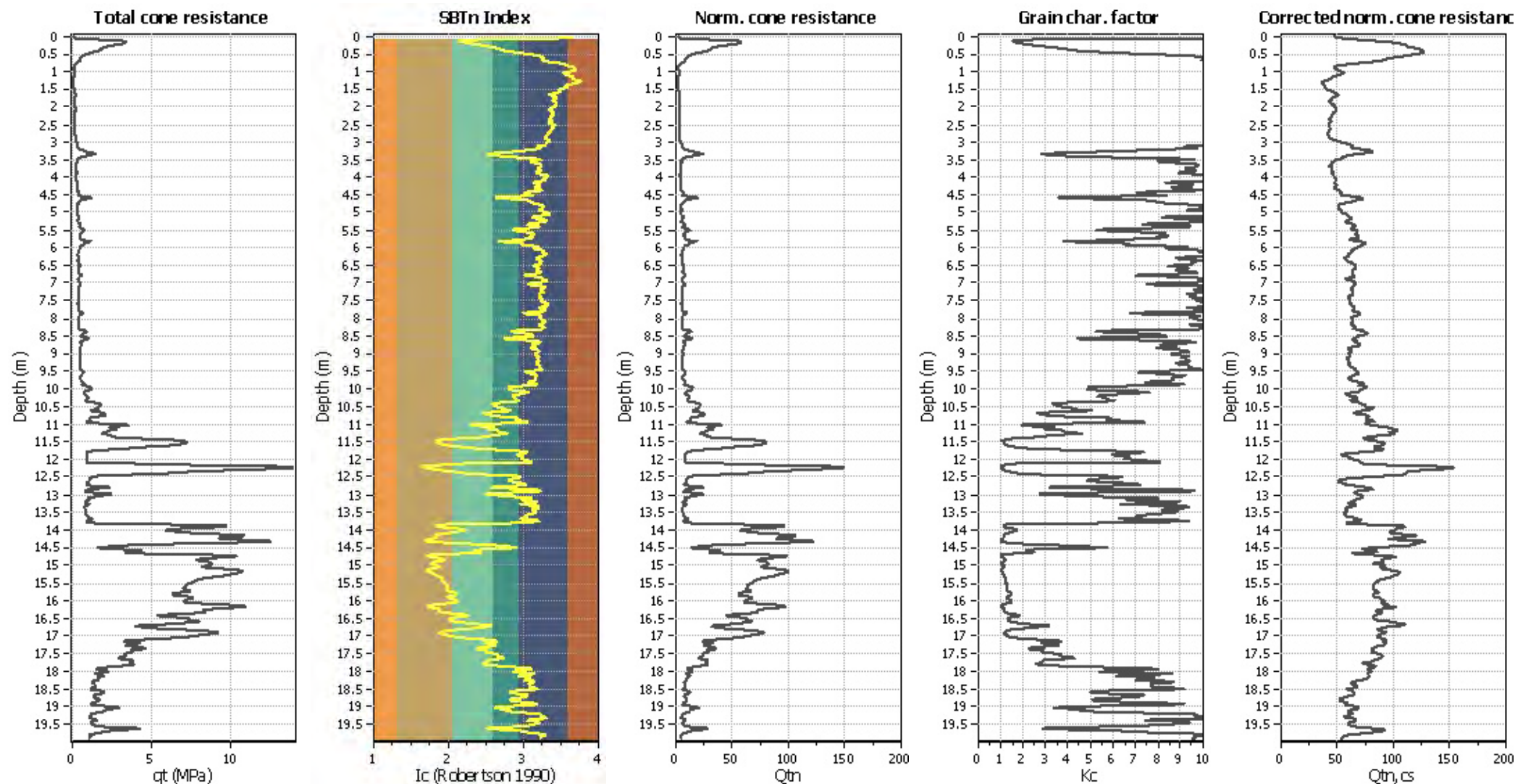
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



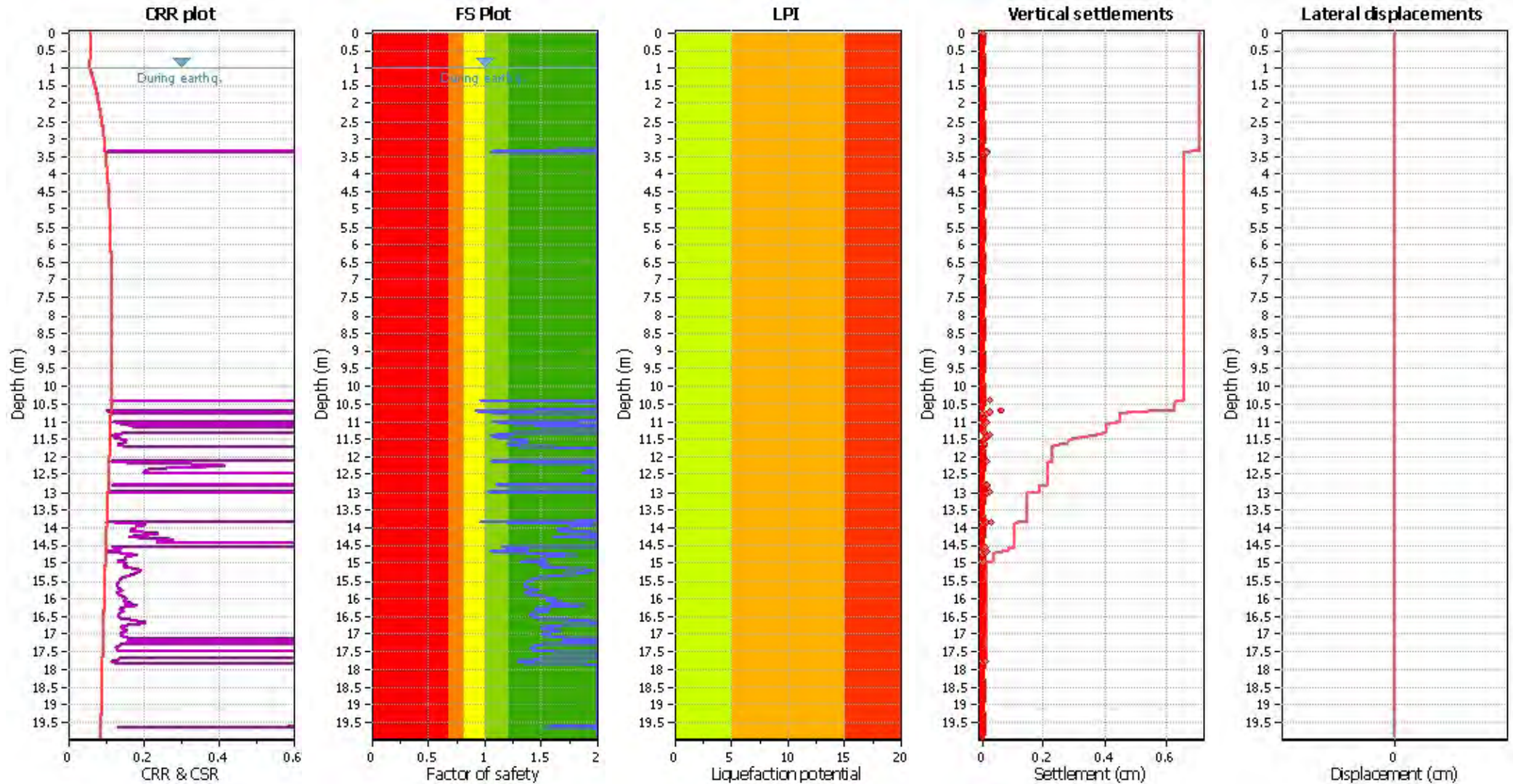
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

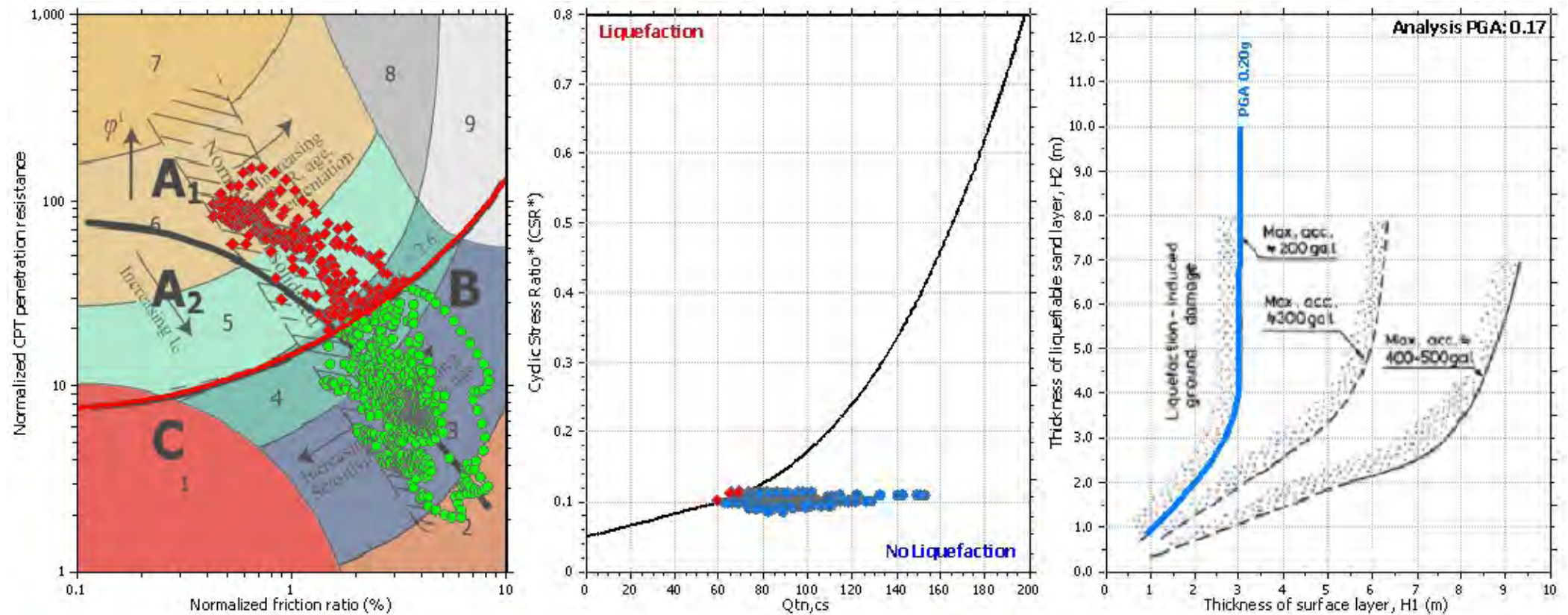
Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

### LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk



## Liquefaction analysis summary plo

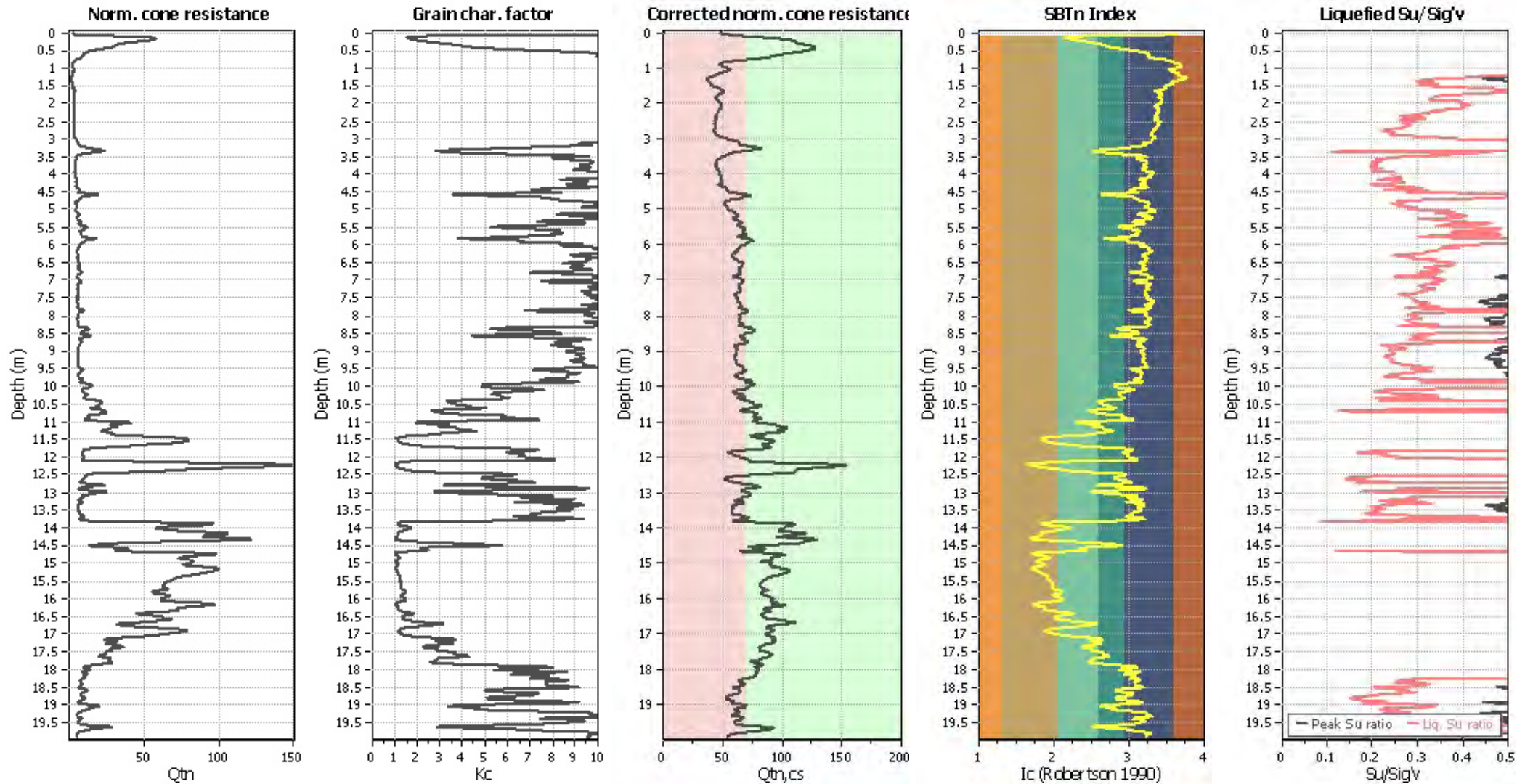


## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	1.17	0.00	8.34	0.02	0.00
3.34	1.12	0.00	8.33	0.02	0.00	3.36	1.09	0.00	8.32	0.02	0.00
3.38	1.05	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	0.97	0.03	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	0.93	0.07	4.67	0.02	0.01	10.68	0.93	0.07	4.66	0.02	0.01
10.70	0.96	0.04	4.65	0.02	0.00	10.72	1.03	0.00	4.64	0.02	0.00
10.74	1.09	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	1.06	0.00	4.50	0.02	0.00
11.02	1.11	0.00	4.49	0.02	0.00	11.04	1.16	0.00	4.48	0.02	0.00
11.06	1.24	0.00	4.47	0.02	0.00	11.08	1.34	0.00	4.46	0.02	0.00
11.10	2.00	0.00	4.45	0.02	0.00	11.12	1.44	0.00	4.44	0.02	0.00
11.14	1.49	0.00	4.43	0.02	0.00	11.16	1.60	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	1.33	0.00	4.35	0.02	0.00	11.32	1.23	0.00	4.34	0.02	0.00
11.34	1.16	0.00	4.33	0.02	0.00	11.36	1.08	0.00	4.32	0.02	0.00
11.38	1.05	0.00	4.31	0.02	0.00	11.40	1.06	0.00	4.30	0.02	0.00
11.42	1.14	0.00	4.29	0.02	0.00	11.44	1.23	0.00	4.28	0.02	0.00
11.46	1.12	0.00	4.27	0.02	0.00	11.48	1.32	0.00	4.26	0.02	0.00
11.50	1.35	0.00	4.25	0.02	0.00	11.52	1.37	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.38	0.00	4.23	0.02	0.00	11.56	1.36	0.00	4.22	0.02	0.00
11.58	1.34	0.00	4.21	0.02	0.00	11.60	1.29	0.00	4.20	0.02	0.00
11.62	1.24	0.00	4.19	0.02	0.00	11.64	1.20	0.00	4.18	0.02	0.00
11.66	1.21	0.00	4.17	0.02	0.00	11.68	1.28	0.00	4.16	0.02	0.00
11.70	1.34	0.00	4.15	0.02	0.00	11.72	1.35	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	1.06	0.00	3.94	0.02	0.00
12.14	1.46	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	1.93	0.00	3.83	0.02	0.00	12.36	1.93	0.00	3.82	0.02	0.00
12.38	1.93	0.00	3.81	0.02	0.00	12.40	1.92	0.00	3.80	0.02	0.00
12.42	1.87	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	1.10	0.00	3.61	0.02	0.00	12.80	1.13	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	1.04	0.00	3.51	0.02	0.00	13.00	1.06	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	2.00	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	2.00	0.00	3.38	0.02	0.00
13.26	2.00	0.00	3.37	0.02	0.00	13.28	2.00	0.00	3.36	0.02	0.00
13.30	2.00	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	2.00	0.00	3.33	0.02	0.00	13.36	2.00	0.00	3.32	0.02	0.00
13.38	2.00	0.00	3.31	0.02	0.00	13.40	2.00	0.00	3.30	0.02	0.00
13.42	2.00	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	0.97	0.03	3.09	0.02	0.00	13.84	1.15	0.00	3.08	0.02	0.00
13.86	1.60	0.00	3.07	0.02	0.00	13.88	1.95	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	1.95	0.00	3.04	0.02	0.00
13.94	1.80	0.00	3.03	0.02	0.00	13.96	1.77	0.00	3.02	0.02	0.00
13.98	1.75	0.00	3.01	0.02	0.00	14.00	1.70	0.00	3.00	0.02	0.00
14.02	1.64	0.00	2.99	0.02	0.00	14.04	1.64	0.00	2.98	0.02	0.00
14.06	1.65	0.00	2.97	0.02	0.00	14.08	1.75	0.00	2.96	0.02	0.00
14.10	1.97	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	1.81	0.00	2.89	0.02	0.00	14.24	1.70	0.00	2.88	0.02	0.00
14.26	1.61	0.00	2.87	0.02	0.00	14.28	1.99	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	1.16	0.00	2.73	0.02	0.00	14.56	1.26	0.00	2.72	0.02	0.00
14.58	1.38	0.00	2.71	0.02	0.00	14.60	1.39	0.00	2.70	0.02	0.00
14.62	1.26	0.00	2.69	0.02	0.00	14.64	1.12	0.00	2.68	0.02	0.00
14.66	1.05	0.00	2.67	0.02	0.00	14.68	1.16	0.00	2.66	0.02	0.00
14.70	1.31	0.00	2.65	0.02	0.00	14.72	1.65	0.00	2.64	0.02	0.00
14.74	1.71	0.00	2.63	0.02	0.00	14.76	1.82	0.00	2.62	0.02	0.00
14.78	1.72	0.00	2.61	0.02	0.00	14.80	1.63	0.00	2.60	0.02	0.00
14.82	1.55	0.00	2.59	0.02	0.00	14.84	1.51	0.00	2.58	0.02	0.00
14.86	1.50	0.00	2.57	0.02	0.00	14.88	1.52	0.00	2.56	0.02	0.00
14.90	1.53	0.00	2.55	0.02	0.00	14.92	1.35	0.00	2.54	0.02	0.00
14.94	1.34	0.00	2.53	0.02	0.00	14.96	1.33	0.00	2.52	0.02	0.00
14.98	1.54	0.00	2.51	0.02	0.00	15.00	1.55	0.00	2.50	0.02	0.00
15.02	1.52	0.00	2.49	0.02	0.00	15.04	1.48	0.00	2.48	0.02	0.00
15.06	1.50	0.00	2.47	0.02	0.00	15.08	1.59	0.00	2.46	0.02	0.00
15.10	1.53	0.00	2.45	0.02	0.00	15.12	1.66	0.00	2.44	0.02	0.00
15.14	1.74	0.00	2.43	0.02	0.00	15.16	1.77	0.00	2.42	0.02	0.00
15.18	1.96	0.00	2.41	0.02	0.00	15.20	1.96	0.00	2.40	0.02	0.00
15.22	1.94	0.00	2.39	0.02	0.00	15.24	1.91	0.00	2.38	0.02	0.00
15.26	1.87	0.00	2.37	0.02	0.00	15.28	1.83	0.00	2.36	0.02	0.00
15.30	1.79	0.00	2.35	0.02	0.00	15.32	1.73	0.00	2.34	0.02	0.00
15.34	1.66	0.00	2.33	0.02	0.00	15.36	1.59	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	1.53	0.00	2.31	0.02	0.00	15.40	1.48	0.00	2.30	0.02	0.00
15.42	1.45	0.00	2.29	0.02	0.00	15.44	1.44	0.00	2.28	0.02	0.00
15.46	1.42	0.00	2.27	0.02	0.00	15.48	1.41	0.00	2.26	0.02	0.00
15.50	1.39	0.00	2.25	0.02	0.00	15.52	1.37	0.00	2.24	0.02	0.00
15.54	1.36	0.00	2.23	0.02	0.00	15.56	1.36	0.00	2.22	0.02	0.00
15.58	1.36	0.00	2.21	0.02	0.00	15.60	1.36	0.00	2.20	0.02	0.00
15.62	1.36	0.00	2.19	0.02	0.00	15.64	1.36	0.00	2.18	0.02	0.00
15.66	1.37	0.00	2.17	0.02	0.00	15.68	1.38	0.00	2.16	0.02	0.00
15.70	1.40	0.00	2.15	0.02	0.00	15.72	1.44	0.00	2.14	0.02	0.00
15.74	1.46	0.00	2.13	0.02	0.00	15.76	1.48	0.00	2.12	0.02	0.00
15.78	1.47	0.00	2.11	0.02	0.00	15.80	1.43	0.00	2.10	0.02	0.00
15.82	1.38	0.00	2.09	0.02	0.00	15.84	1.36	0.00	2.08	0.02	0.00
15.86	1.36	0.00	2.07	0.02	0.00	15.88	1.41	0.00	2.06	0.02	0.00
15.90	1.45	0.00	2.05	0.02	0.00	15.92	1.50	0.00	2.04	0.02	0.00
15.94	1.53	0.00	2.03	0.02	0.00	15.96	1.55	0.00	2.02	0.02	0.00
15.98	1.58	0.00	2.01	0.02	0.00	16.00	1.62	0.00	2.00	0.02	0.00
16.02	1.62	0.00	1.99	0.02	0.00	16.04	1.60	0.00	1.98	0.02	0.00
16.06	1.56	0.00	1.97	0.02	0.00	16.08	1.59	0.00	1.96	0.02	0.00
16.10	1.68	0.00	1.95	0.02	0.00	16.12	1.60	0.00	1.94	0.02	0.00
16.14	1.73	0.00	1.93	0.02	0.00	16.16	1.76	0.00	1.92	0.02	0.00
16.18	1.89	0.00	1.91	0.02	0.00	16.20	1.78	0.00	1.90	0.02	0.00
16.22	1.65	0.00	1.89	0.02	0.00	16.24	1.53	0.00	1.88	0.02	0.00
16.26	1.46	0.00	1.87	0.02	0.00	16.28	1.45	0.00	1.86	0.02	0.00
16.30	1.48	0.00	1.85	0.02	0.00	16.32	1.54	0.00	1.84	0.02	0.00
16.34	1.56	0.00	1.83	0.02	0.00	16.36	1.54	0.00	1.82	0.02	0.00
16.38	1.48	0.00	1.81	0.02	0.00	16.40	1.45	0.00	1.80	0.02	0.00
16.42	1.42	0.00	1.79	0.02	0.00	16.44	1.40	0.00	1.78	0.02	0.00
16.46	1.41	0.00	1.77	0.02	0.00	16.48	1.42	0.00	1.76	0.02	0.00
16.50	1.44	0.00	1.75	0.02	0.00	16.52	1.44	0.00	1.74	0.02	0.00
16.54	1.47	0.00	1.73	0.02	0.00	16.56	1.53	0.00	1.72	0.02	0.00
16.58	1.62	0.00	1.71	0.02	0.00	16.60	1.73	0.00	1.70	0.02	0.00
16.62	1.81	0.00	1.69	0.02	0.00	16.64	1.92	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	1.83	0.00	1.63	0.02	0.00	16.76	1.68	0.00	1.62	0.02	0.00
16.78	1.55	0.00	1.61	0.02	0.00	16.80	1.50	0.00	1.60	0.02	0.00
16.82	1.52	0.00	1.59	0.02	0.00	16.84	1.56	0.00	1.58	0.02	0.00
16.86	1.62	0.00	1.57	0.02	0.00	16.88	1.67	0.00	1.56	0.02	0.00
16.90	1.67	0.00	1.55	0.02	0.00	16.92	1.63	0.00	1.54	0.02	0.00
16.94	1.56	0.00	1.53	0.02	0.00	16.96	1.53	0.00	1.52	0.02	0.00
16.98	1.52	0.00	1.51	0.02	0.00	17.00	1.51	0.00	1.50	0.02	0.00
17.02	1.52	0.00	1.49	0.02	0.00	17.04	1.55	0.00	1.48	0.02	0.00
17.06	1.60	0.00	1.47	0.02	0.00	17.08	1.67	0.00	1.46	0.02	0.00
17.10	1.71	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	1.72	0.00	1.41	0.02	0.00	17.20	1.70	0.00	1.40	0.02	0.00
17.22	1.68	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	1.54	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	1.47	0.00	1.35	0.02	0.00	17.32	1.46	0.00	1.34	0.02	0.00
17.34	1.44	0.00	1.33	0.02	0.00	17.36	1.41	0.00	1.32	0.02	0.00
17.38	1.41	0.00	1.31	0.02	0.00	17.40	1.42	0.00	1.30	0.02	0.00
17.42	1.43	0.00	1.29	0.02	0.00	17.44	1.44	0.00	1.28	0.02	0.00
17.46	1.42	0.00	1.27	0.02	0.00	17.48	1.46	0.00	1.26	0.02	0.00
17.50	1.52	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	1.52	0.00	1.16	0.02	0.00
17.70	1.48	0.00	1.15	0.02	0.00	17.72	1.43	0.00	1.14	0.02	0.00
17.74	1.35	0.00	1.13	0.02	0.00	17.76	1.30	0.00	1.12	0.02	0.00
17.78	1.30	0.00	1.11	0.02	0.00	17.80	1.36	0.00	1.10	0.02	0.00
17.82	1.43	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	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
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	1.54	0.00	0.20	0.02	0.00
19.62	1.70	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 0.02**

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

## LIQUEFACTION ANALYSIS REPORT

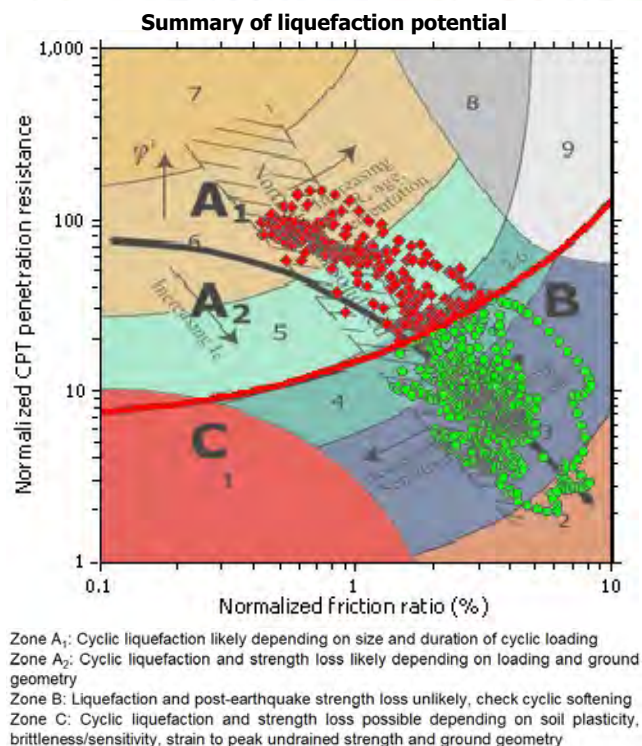
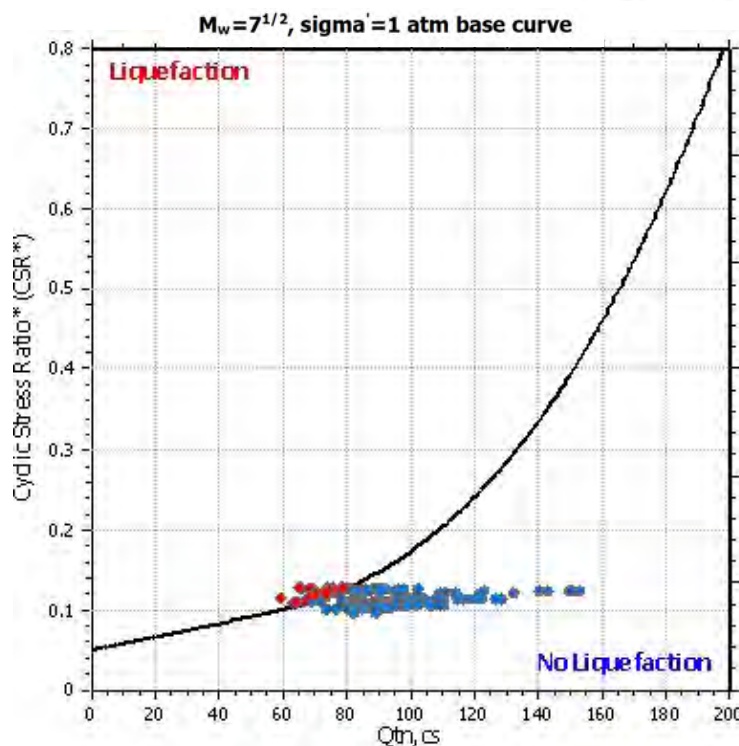
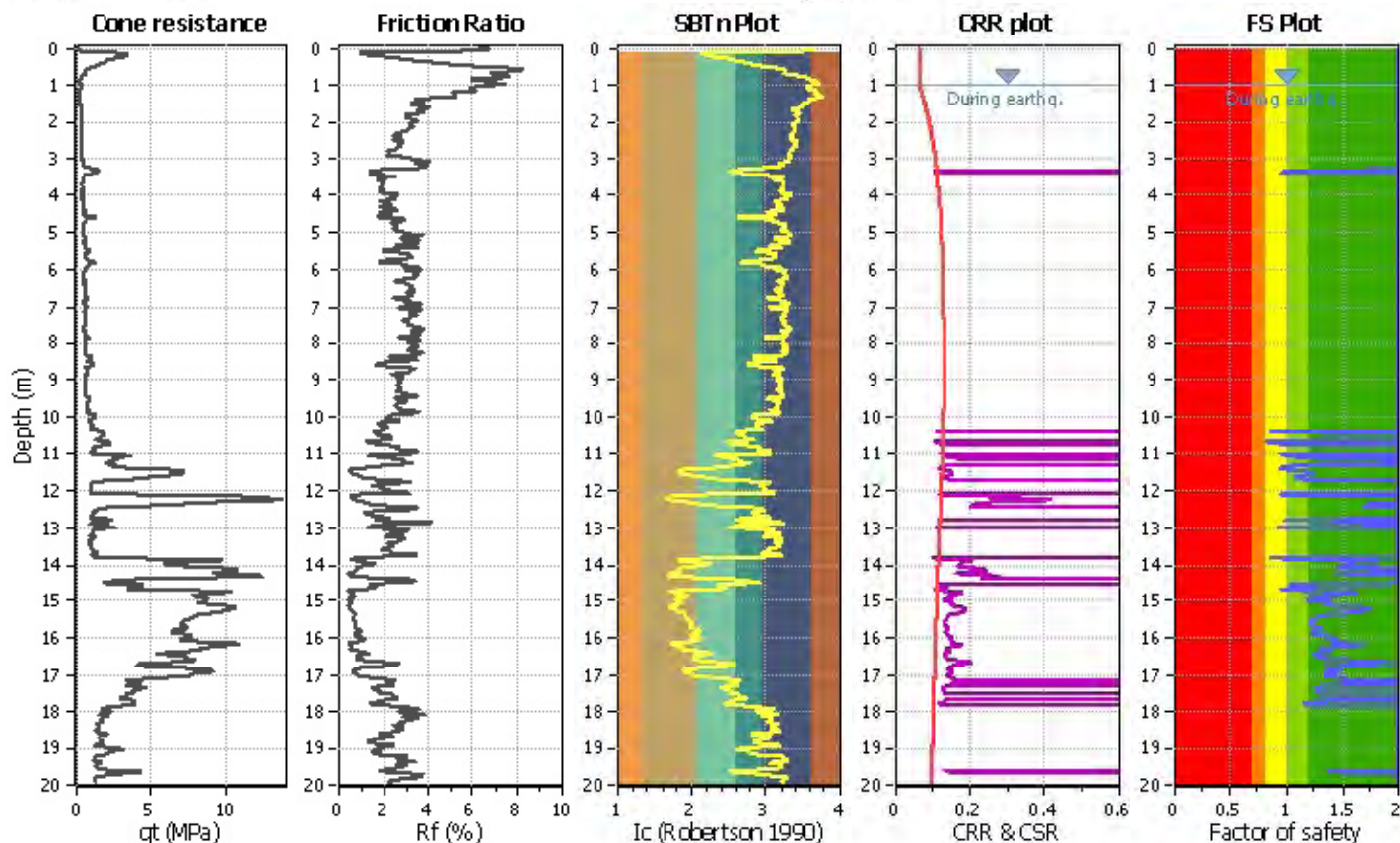
**Project title :**

**Location :**

**CPT file : CPTU1**

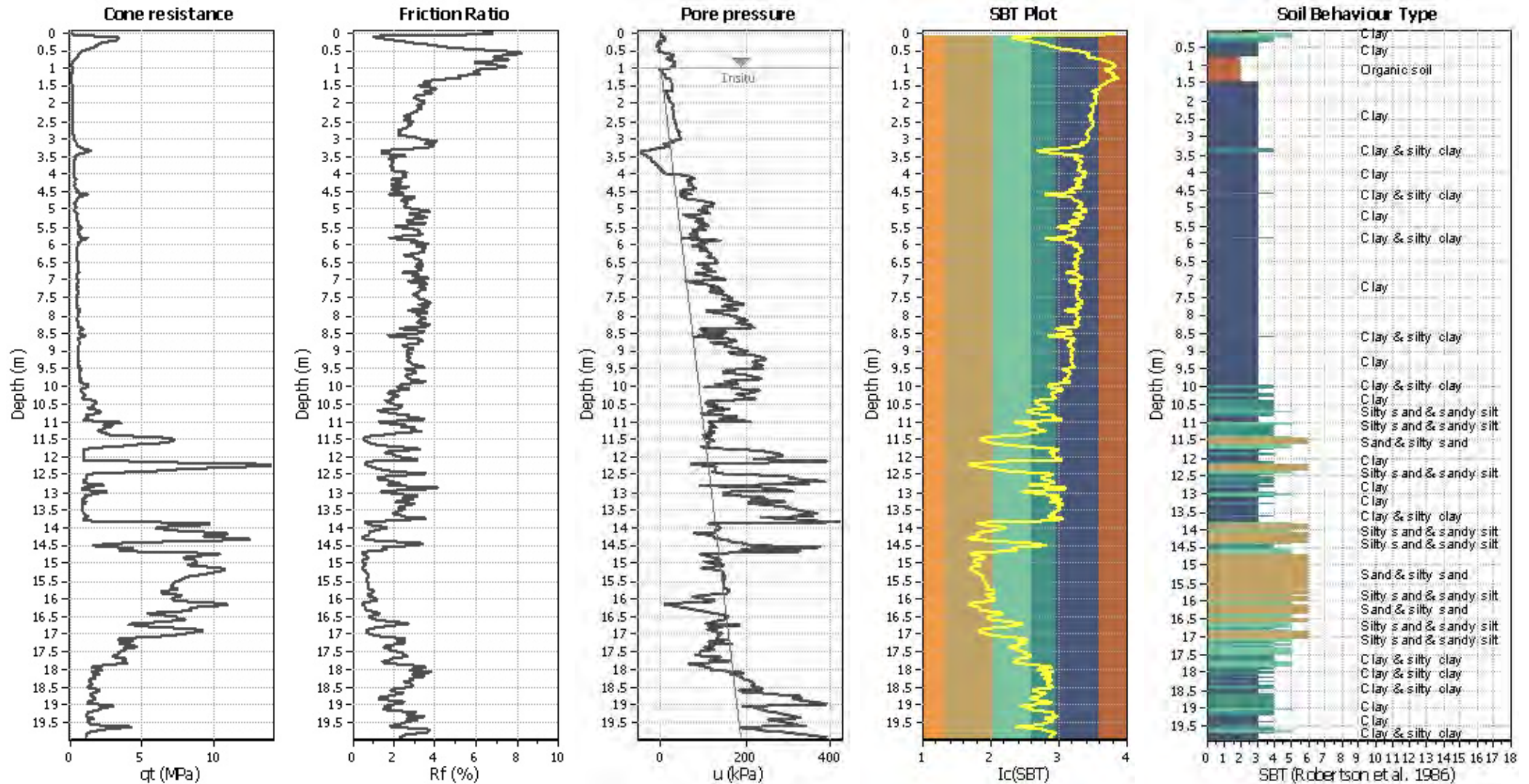
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	6.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



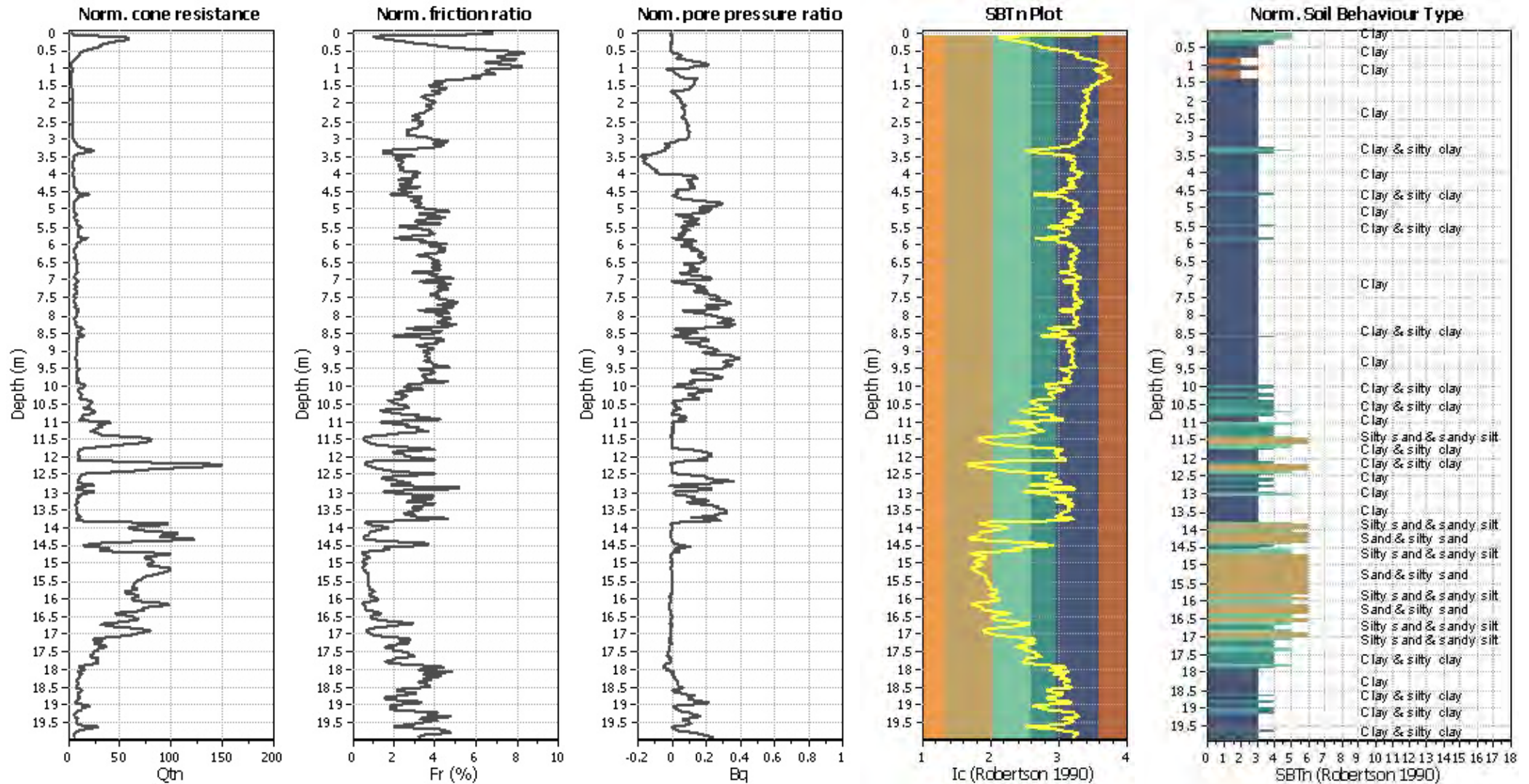
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

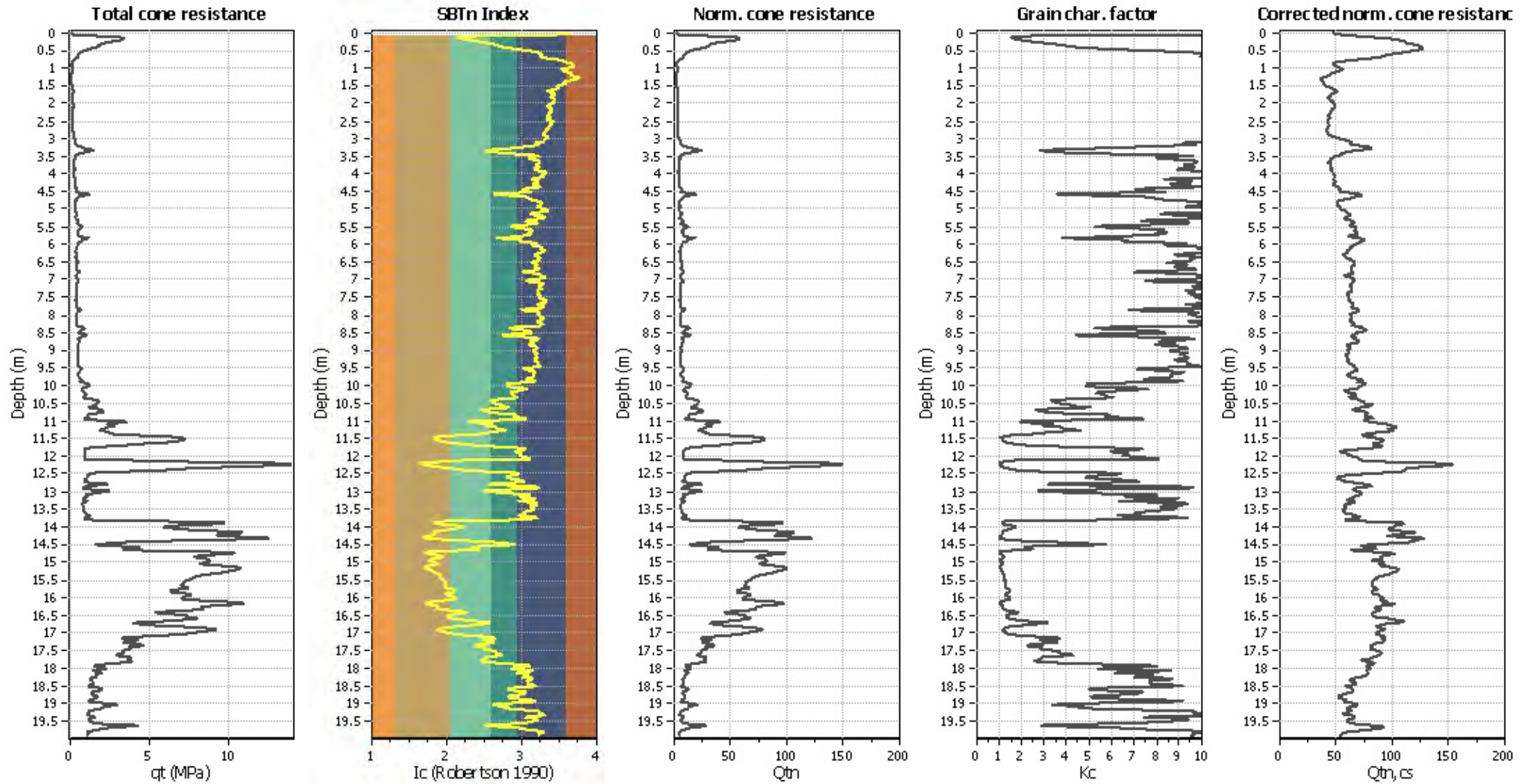
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



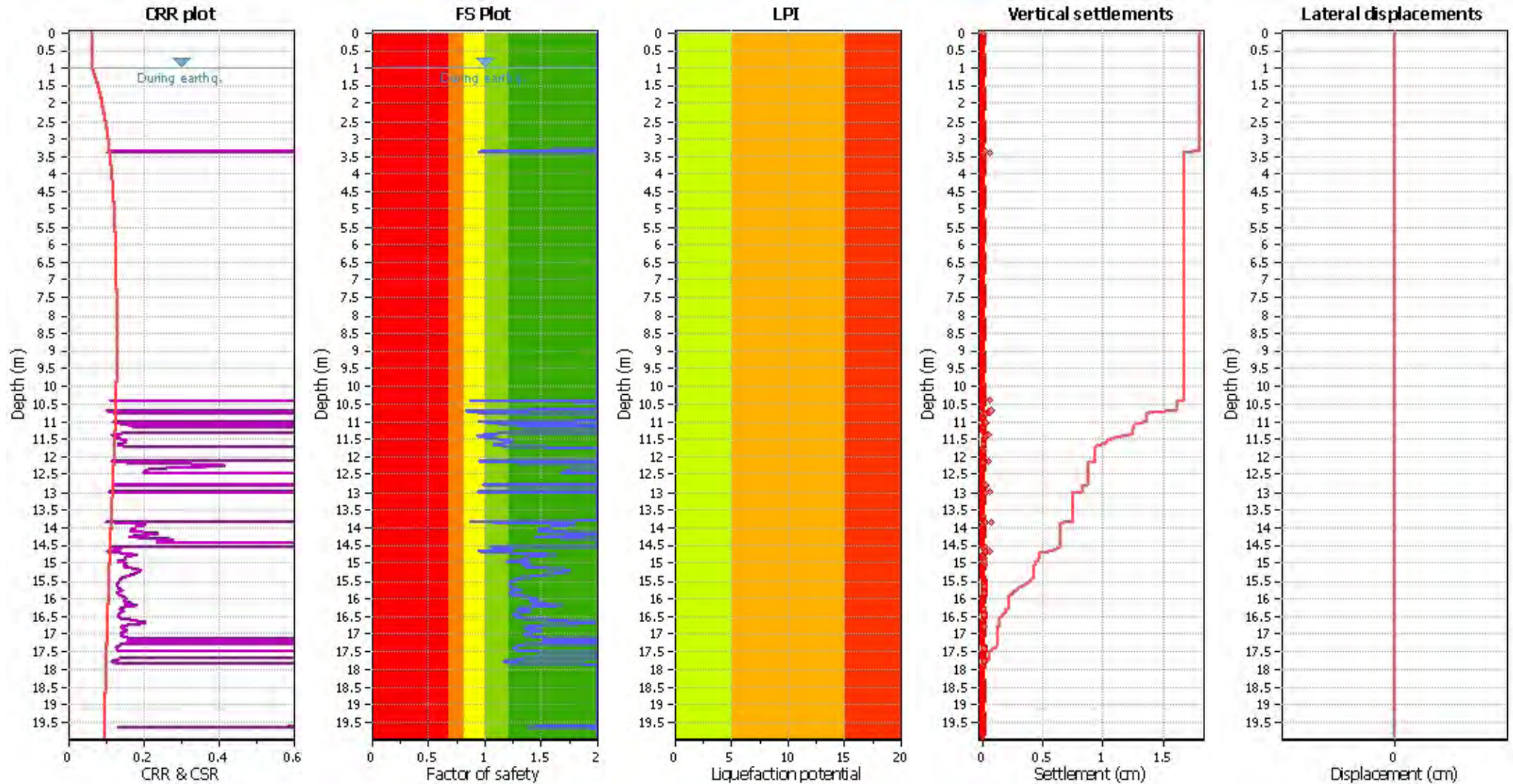
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{cs}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

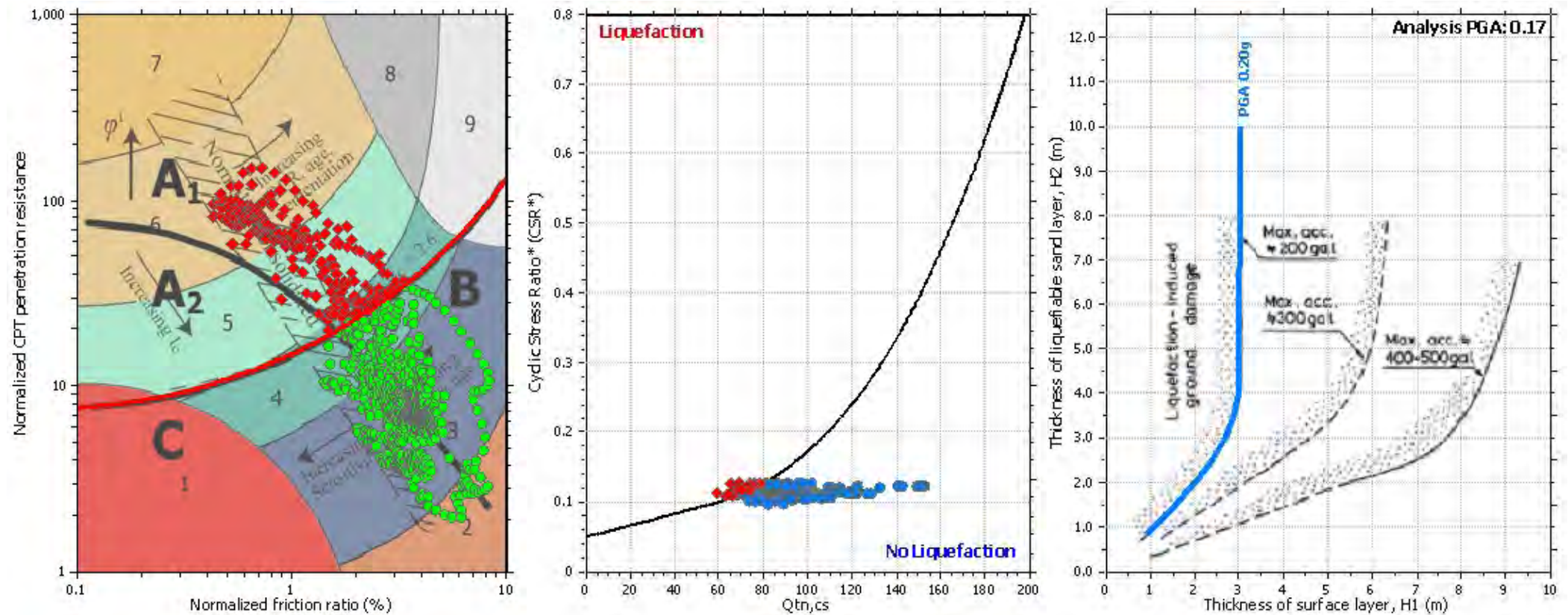
Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

### LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk



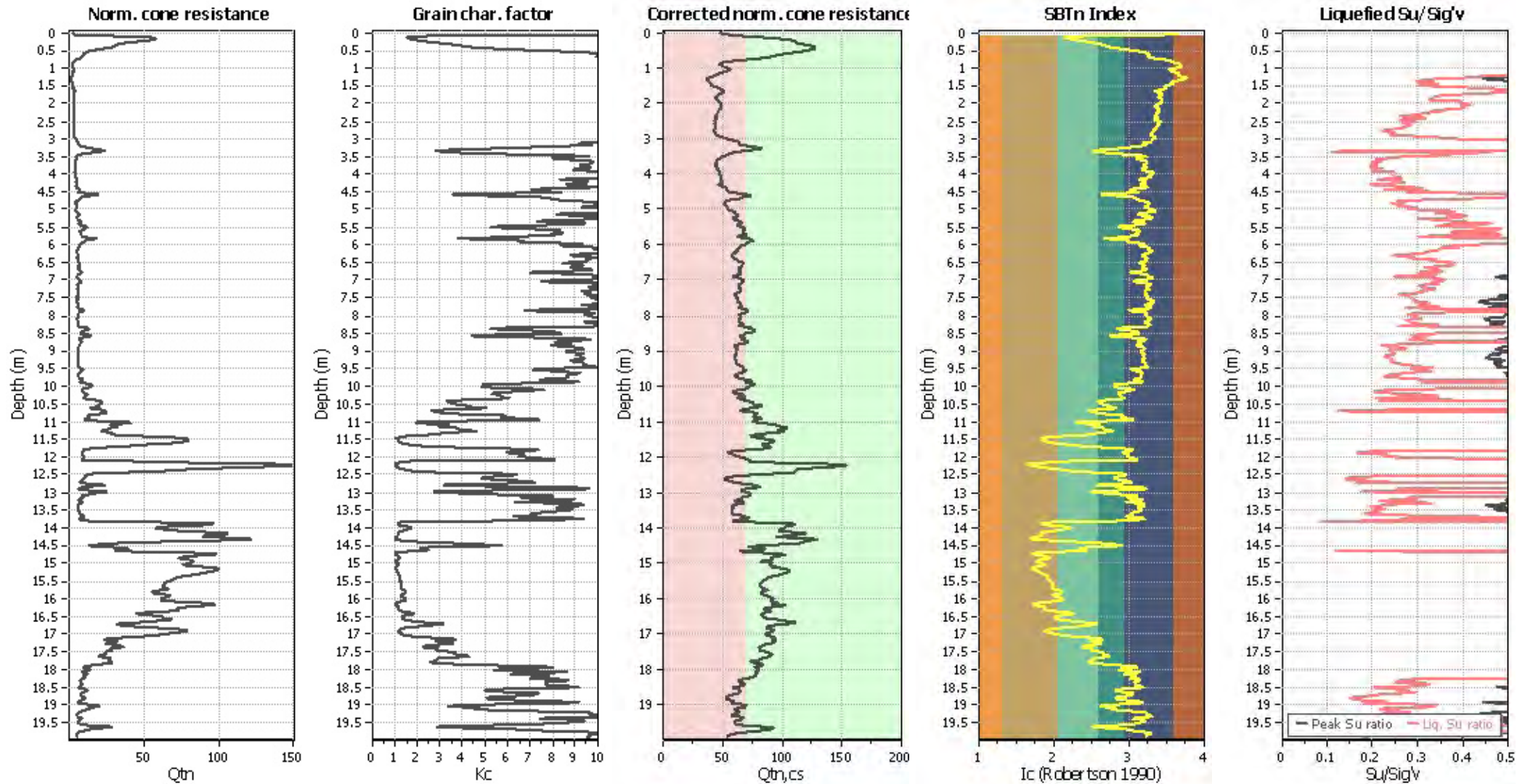
## Liquefaction analysis summary plo



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	1.05	0.00	8.34	0.02	0.00
3.34	1.01	0.00	8.33	0.02	0.00	3.36	0.98	0.02	8.32	0.02	0.00
3.38	0.95	0.05	8.31	0.02	0.01	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	0.87	0.13	4.80	0.02	0.01
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	0.84	0.16	4.67	0.02	0.02	10.68	0.83	0.17	4.66	0.02	0.02
10.70	0.86	0.14	4.65	0.02	0.01	10.72	0.93	0.07	4.64	0.02	0.01
10.74	0.98	0.02	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	0.95	0.05	4.50	0.02	0.00
11.02	1.00	0.00	4.49	0.02	0.00	11.04	1.04	0.00	4.48	0.02	0.00
11.06	1.11	0.00	4.47	0.02	0.00	11.08	1.20	0.00	4.46	0.02	0.00
11.10	2.00	0.00	4.45	0.02	0.00	11.12	1.29	0.00	4.44	0.02	0.00
11.14	1.34	0.00	4.43	0.02	0.00	11.16	1.43	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	1.19	0.00	4.35	0.02	0.00	11.32	1.10	0.00	4.34	0.02	0.00
11.34	1.04	0.00	4.33	0.02	0.00	11.36	0.97	0.03	4.32	0.02	0.00
11.38	0.94	0.06	4.31	0.02	0.01	11.40	0.95	0.05	4.30	0.02	0.00
11.42	1.02	0.00	4.29	0.02	0.00	11.44	1.10	0.00	4.28	0.02	0.00
11.46	1.00	0.00	4.27	0.02	0.00	11.48	1.18	0.00	4.26	0.02	0.00
11.50	1.21	0.00	4.25	0.02	0.00	11.52	1.23	0.00	4.24	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.24	0.00	4.23	0.02	0.00	11.56	1.22	0.00	4.22	0.02	0.00
11.58	1.20	0.00	4.21	0.02	0.00	11.60	1.16	0.00	4.20	0.02	0.00
11.62	1.11	0.00	4.19	0.02	0.00	11.64	1.08	0.00	4.18	0.02	0.00
11.66	1.09	0.00	4.17	0.02	0.00	11.68	1.14	0.00	4.16	0.02	0.00
11.70	1.20	0.00	4.15	0.02	0.00	11.72	1.21	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	0.95	0.05	3.94	0.02	0.00
12.14	1.31	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	1.82	0.00	3.84	0.02	0.00
12.34	1.73	0.00	3.83	0.02	0.00	12.36	1.73	0.00	3.82	0.02	0.00
12.38	1.73	0.00	3.81	0.02	0.00	12.40	1.72	0.00	3.80	0.02	0.00
12.42	1.68	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	0.99	0.01	3.61	0.02	0.00	12.80	1.01	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	0.93	0.07	3.51	0.02	0.00	13.00	0.95	0.05	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	2.00	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	2.00	0.00	3.38	0.02	0.00
13.26	2.00	0.00	3.37	0.02	0.00	13.28	2.00	0.00	3.36	0.02	0.00
13.30	2.00	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	2.00	0.00	3.33	0.02	0.00	13.36	2.00	0.00	3.32	0.02	0.00
13.38	2.00	0.00	3.31	0.02	0.00	13.40	2.00	0.00	3.30	0.02	0.00
13.42	2.00	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	0.87	0.13	3.09	0.02	0.01	13.84	1.03	0.00	3.08	0.02	0.00
13.86	1.43	0.00	3.07	0.02	0.00	13.88	1.75	0.00	3.06	0.02	0.00
13.90	1.80	0.00	3.05	0.02	0.00	13.92	1.75	0.00	3.04	0.02	0.00
13.94	1.62	0.00	3.03	0.02	0.00	13.96	1.58	0.00	3.02	0.02	0.00
13.98	1.57	0.00	3.01	0.02	0.00	14.00	1.52	0.00	3.00	0.02	0.00
14.02	1.47	0.00	2.99	0.02	0.00	14.04	1.47	0.00	2.98	0.02	0.00
14.06	1.48	0.00	2.97	0.02	0.00	14.08	1.57	0.00	2.96	0.02	0.00
14.10	1.76	0.00	2.95	0.02	0.00	14.12	1.96	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	1.83	0.00	2.90	0.02	0.00
14.22	1.62	0.00	2.89	0.02	0.00	14.24	1.52	0.00	2.88	0.02	0.00
14.26	1.44	0.00	2.87	0.02	0.00	14.28	1.78	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	1.04	0.00	2.73	0.02	0.00	14.56	1.13	0.00	2.72	0.02	0.00
14.58	1.24	0.00	2.71	0.02	0.00	14.60	1.24	0.00	2.70	0.02	0.00
14.62	1.13	0.00	2.69	0.02	0.00	14.64	1.00	0.00	2.68	0.02	0.00
14.66	0.95	0.05	2.67	0.02	0.00	14.68	1.04	0.00	2.66	0.02	0.00
14.70	1.17	0.00	2.65	0.02	0.00	14.72	1.48	0.00	2.64	0.02	0.00
14.74	1.53	0.00	2.63	0.02	0.00	14.76	1.63	0.00	2.62	0.02	0.00
14.78	1.54	0.00	2.61	0.02	0.00	14.80	1.46	0.00	2.60	0.02	0.00
14.82	1.39	0.00	2.59	0.02	0.00	14.84	1.35	0.00	2.58	0.02	0.00
14.86	1.35	0.00	2.57	0.02	0.00	14.88	1.36	0.00	2.56	0.02	0.00
14.90	1.38	0.00	2.55	0.02	0.00	14.92	1.21	0.00	2.54	0.02	0.00
14.94	1.20	0.00	2.53	0.02	0.00	14.96	1.19	0.00	2.52	0.02	0.00
14.98	1.38	0.00	2.51	0.02	0.00	15.00	1.39	0.00	2.50	0.02	0.00
15.02	1.36	0.00	2.49	0.02	0.00	15.04	1.33	0.00	2.48	0.02	0.00
15.06	1.35	0.00	2.47	0.02	0.00	15.08	1.42	0.00	2.46	0.02	0.00
15.10	1.37	0.00	2.45	0.02	0.00	15.12	1.49	0.00	2.44	0.02	0.00
15.14	1.56	0.00	2.43	0.02	0.00	15.16	1.58	0.00	2.42	0.02	0.00
15.18	1.76	0.00	2.41	0.02	0.00	15.20	1.76	0.00	2.40	0.02	0.00
15.22	1.74	0.00	2.39	0.02	0.00	15.24	1.71	0.00	2.38	0.02	0.00
15.26	1.68	0.00	2.37	0.02	0.00	15.28	1.64	0.00	2.36	0.02	0.00
15.30	1.60	0.00	2.35	0.02	0.00	15.32	1.55	0.00	2.34	0.02	0.00
15.34	1.49	0.00	2.33	0.02	0.00	15.36	1.43	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	1.38	0.00	2.31	0.02	0.00	15.40	1.33	0.00	2.30	0.02	0.00
15.42	1.30	0.00	2.29	0.02	0.00	15.44	1.29	0.00	2.28	0.02	0.00
15.46	1.28	0.00	2.27	0.02	0.00	15.48	1.26	0.00	2.26	0.02	0.00
15.50	1.24	0.00	2.25	0.02	0.00	15.52	1.23	0.00	2.24	0.02	0.00
15.54	1.22	0.00	2.23	0.02	0.00	15.56	1.22	0.00	2.22	0.02	0.00
15.58	1.22	0.00	2.21	0.02	0.00	15.60	1.22	0.00	2.20	0.02	0.00
15.62	1.22	0.00	2.19	0.02	0.00	15.64	1.22	0.00	2.18	0.02	0.00
15.66	1.22	0.00	2.17	0.02	0.00	15.68	1.24	0.00	2.16	0.02	0.00
15.70	1.26	0.00	2.15	0.02	0.00	15.72	1.29	0.00	2.14	0.02	0.00
15.74	1.31	0.00	2.13	0.02	0.00	15.76	1.33	0.00	2.12	0.02	0.00
15.78	1.31	0.00	2.11	0.02	0.00	15.80	1.28	0.00	2.10	0.02	0.00
15.82	1.24	0.00	2.09	0.02	0.00	15.84	1.22	0.00	2.08	0.02	0.00
15.86	1.22	0.00	2.07	0.02	0.00	15.88	1.26	0.00	2.06	0.02	0.00
15.90	1.30	0.00	2.05	0.02	0.00	15.92	1.35	0.00	2.04	0.02	0.00
15.94	1.37	0.00	2.03	0.02	0.00	15.96	1.39	0.00	2.02	0.02	0.00
15.98	1.42	0.00	2.01	0.02	0.00	16.00	1.45	0.00	2.00	0.02	0.00
16.02	1.46	0.00	1.99	0.02	0.00	16.04	1.43	0.00	1.98	0.02	0.00
16.06	1.40	0.00	1.97	0.02	0.00	16.08	1.42	0.00	1.96	0.02	0.00
16.10	1.51	0.00	1.95	0.02	0.00	16.12	1.44	0.00	1.94	0.02	0.00
16.14	1.55	0.00	1.93	0.02	0.00	16.16	1.58	0.00	1.92	0.02	0.00
16.18	1.69	0.00	1.91	0.02	0.00	16.20	1.60	0.00	1.90	0.02	0.00
16.22	1.48	0.00	1.89	0.02	0.00	16.24	1.37	0.00	1.88	0.02	0.00
16.26	1.31	0.00	1.87	0.02	0.00	16.28	1.30	0.00	1.86	0.02	0.00
16.30	1.33	0.00	1.85	0.02	0.00	16.32	1.38	0.00	1.84	0.02	0.00
16.34	1.40	0.00	1.83	0.02	0.00	16.36	1.38	0.00	1.82	0.02	0.00
16.38	1.33	0.00	1.81	0.02	0.00	16.40	1.30	0.00	1.80	0.02	0.00
16.42	1.27	0.00	1.79	0.02	0.00	16.44	1.25	0.00	1.78	0.02	0.00
16.46	1.26	0.00	1.77	0.02	0.00	16.48	1.28	0.00	1.76	0.02	0.00
16.50	1.29	0.00	1.75	0.02	0.00	16.52	1.29	0.00	1.74	0.02	0.00
16.54	1.32	0.00	1.73	0.02	0.00	16.56	1.37	0.00	1.72	0.02	0.00
16.58	1.45	0.00	1.71	0.02	0.00	16.60	1.55	0.00	1.70	0.02	0.00
16.62	1.62	0.00	1.69	0.02	0.00	16.64	1.72	0.00	1.68	0.02	0.00
16.66	1.85	0.00	1.67	0.02	0.00	16.68	1.98	0.00	1.66	0.02	0.00
16.70	1.94	0.00	1.65	0.02	0.00	16.72	1.84	0.00	1.64	0.02	0.00
16.74	1.64	0.00	1.63	0.02	0.00	16.76	1.51	0.00	1.62	0.02	0.00
16.78	1.39	0.00	1.61	0.02	0.00	16.80	1.35	0.00	1.60	0.02	0.00
16.82	1.36	0.00	1.59	0.02	0.00	16.84	1.40	0.00	1.58	0.02	0.00
16.86	1.45	0.00	1.57	0.02	0.00	16.88	1.50	0.00	1.56	0.02	0.00
16.90	1.49	0.00	1.55	0.02	0.00	16.92	1.46	0.00	1.54	0.02	0.00
16.94	1.40	0.00	1.53	0.02	0.00	16.96	1.37	0.00	1.52	0.02	0.00
16.98	1.36	0.00	1.51	0.02	0.00	17.00	1.35	0.00	1.50	0.02	0.00
17.02	1.36	0.00	1.49	0.02	0.00	17.04	1.39	0.00	1.48	0.02	0.00
17.06	1.44	0.00	1.47	0.02	0.00	17.08	1.50	0.00	1.46	0.02	0.00
17.10	1.53	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	1.54	0.00	1.41	0.02	0.00	17.20	1.53	0.00	1.40	0.02	0.00
17.22	1.51	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	1.38	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	1.32	0.00	1.35	0.02	0.00	17.32	1.31	0.00	1.34	0.02	0.00
17.34	1.29	0.00	1.33	0.02	0.00	17.36	1.26	0.00	1.32	0.02	0.00
17.38	1.26	0.00	1.31	0.02	0.00	17.40	1.27	0.00	1.30	0.02	0.00
17.42	1.29	0.00	1.29	0.02	0.00	17.44	1.29	0.00	1.28	0.02	0.00
17.46	1.28	0.00	1.27	0.02	0.00	17.48	1.31	0.00	1.26	0.02	0.00
17.50	1.36	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	1.37	0.00	1.16	0.02	0.00
17.70	1.33	0.00	1.15	0.02	0.00	17.72	1.28	0.00	1.14	0.02	0.00
17.74	1.21	0.00	1.13	0.02	0.00	17.76	1.17	0.00	1.12	0.02	0.00
17.78	1.17	0.00	1.11	0.02	0.00	17.80	1.22	0.00	1.10	0.02	0.00
17.82	1.28	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	1.38	0.00	0.20	0.02	0.00
19.62	1.52	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 0.12**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

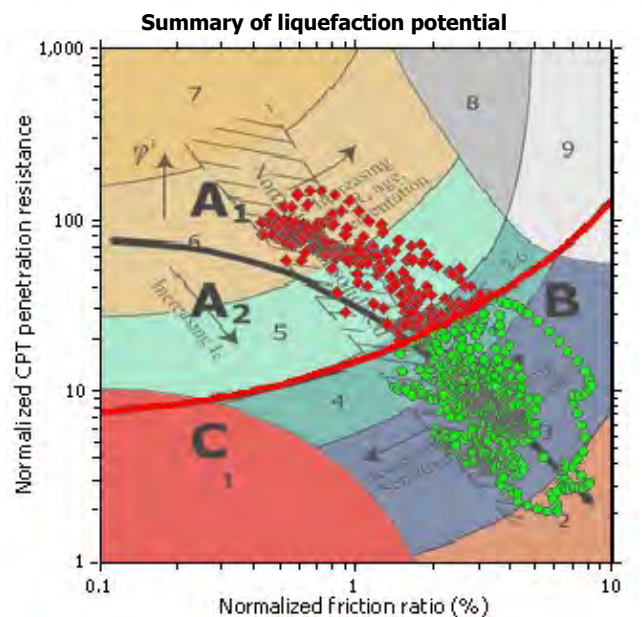
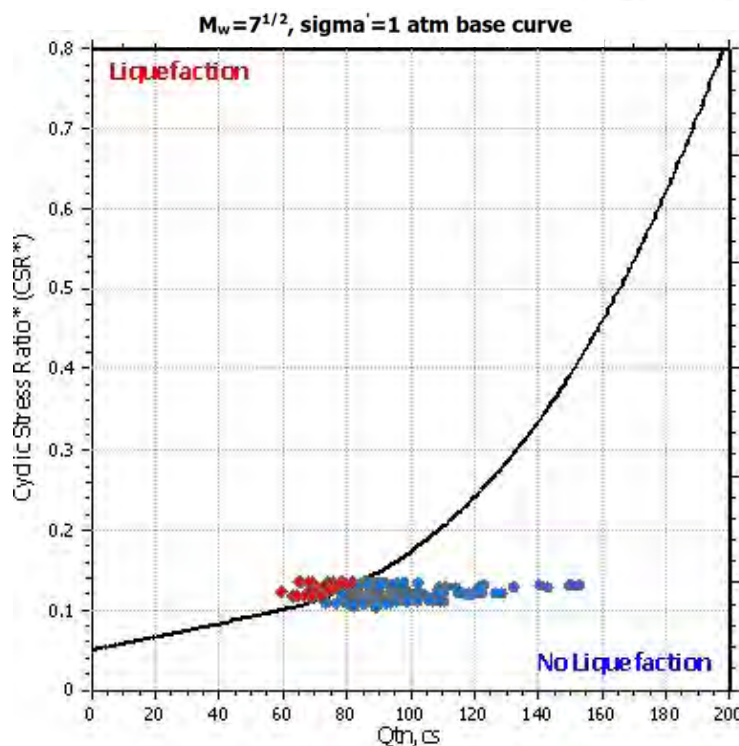
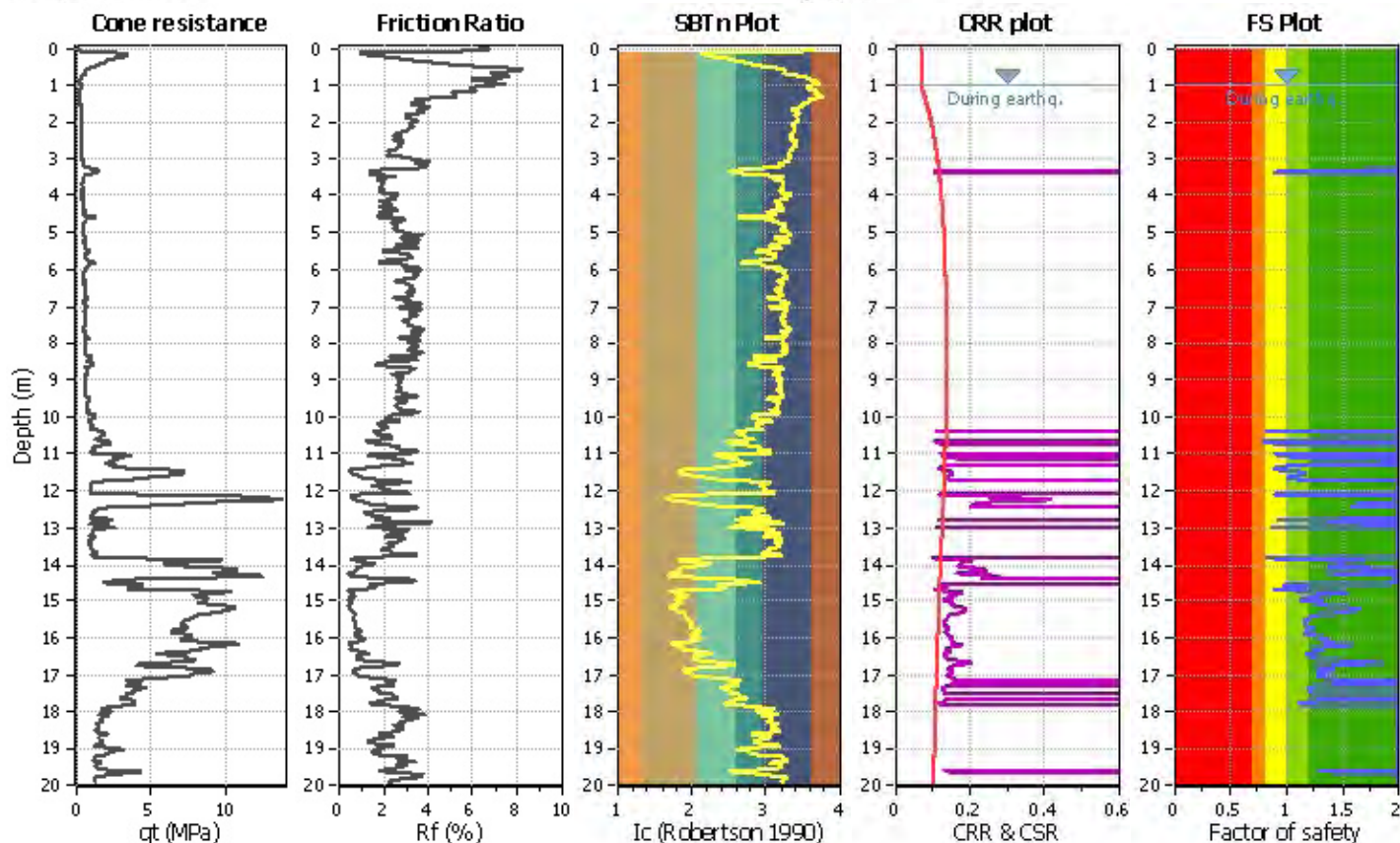
**Project title :**

**Location :**

**CPT file : CPTU1**

### Input parameters and analysis data

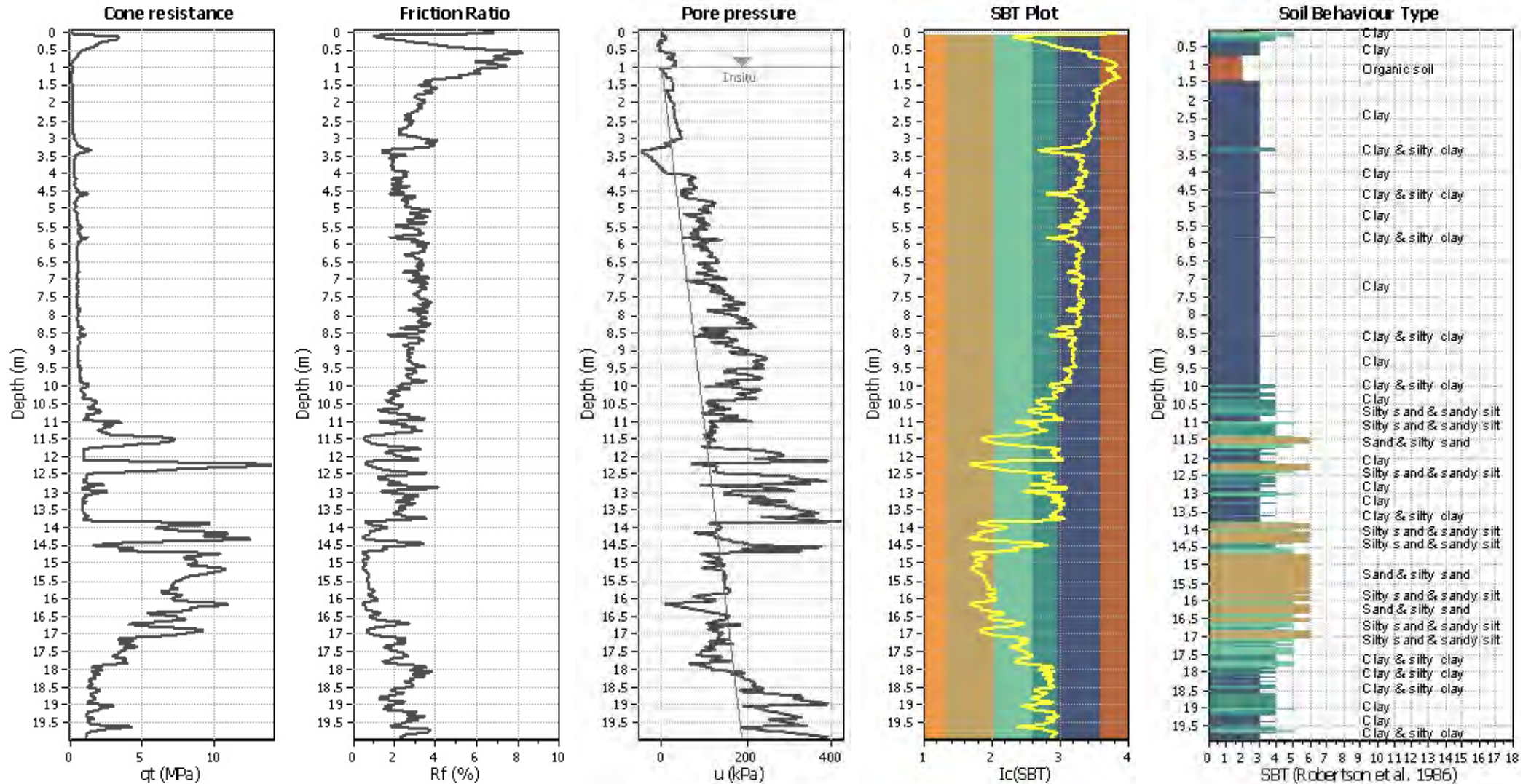
Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based



Zone A<sub>1</sub>: Cyclic liquefaction likely depending on size and duration of cyclic loading  
 Zone A<sub>2</sub>: 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 plo



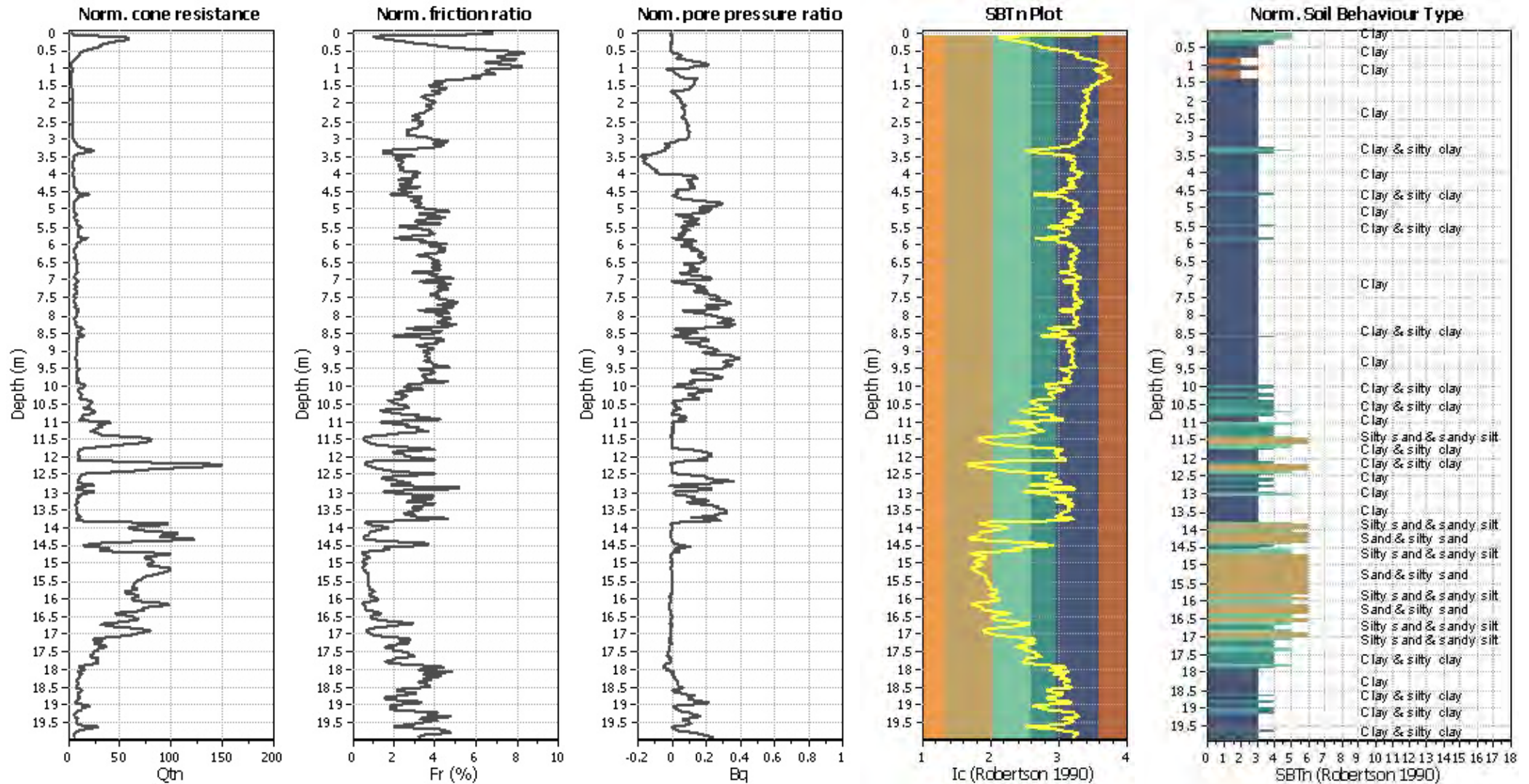
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

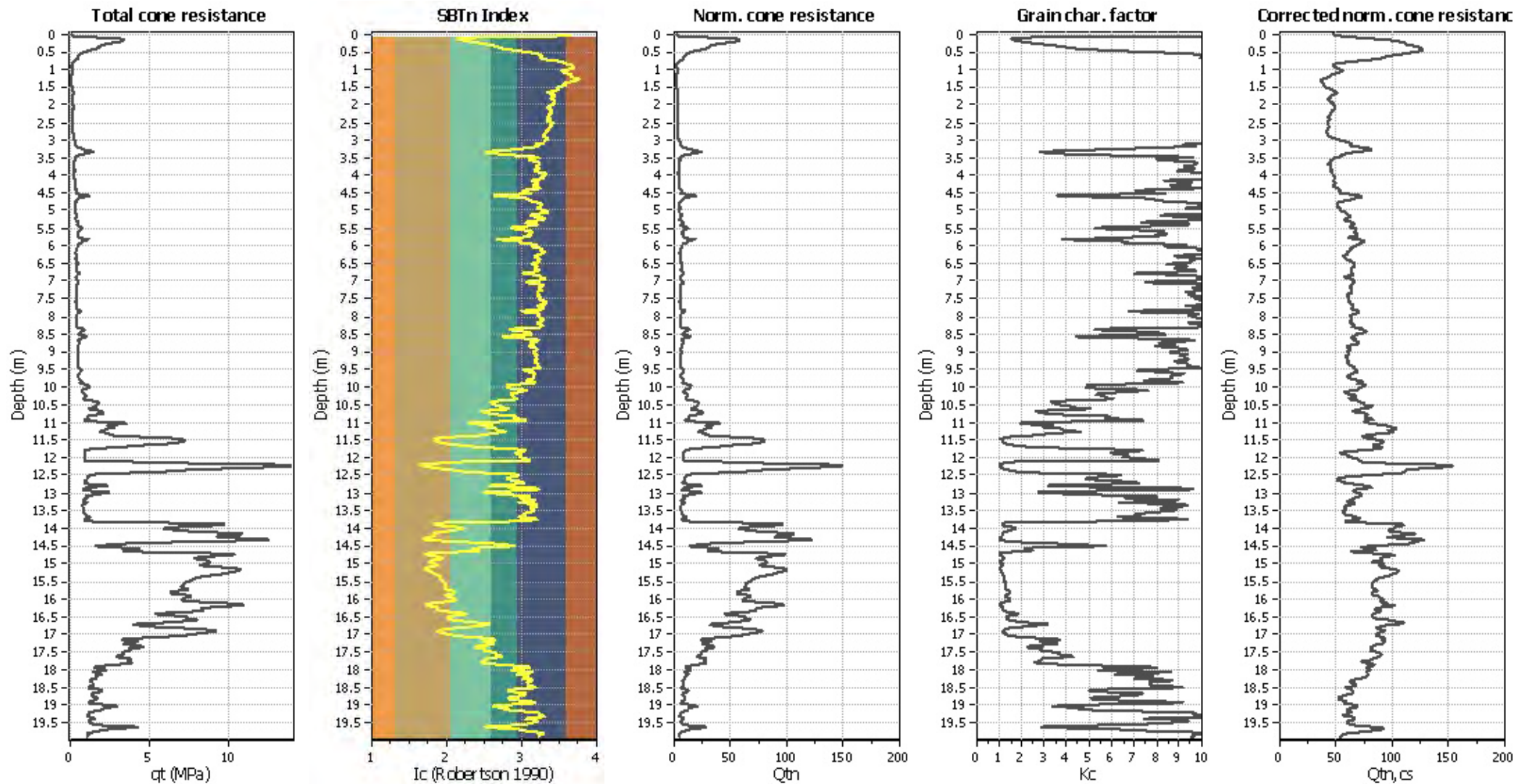
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



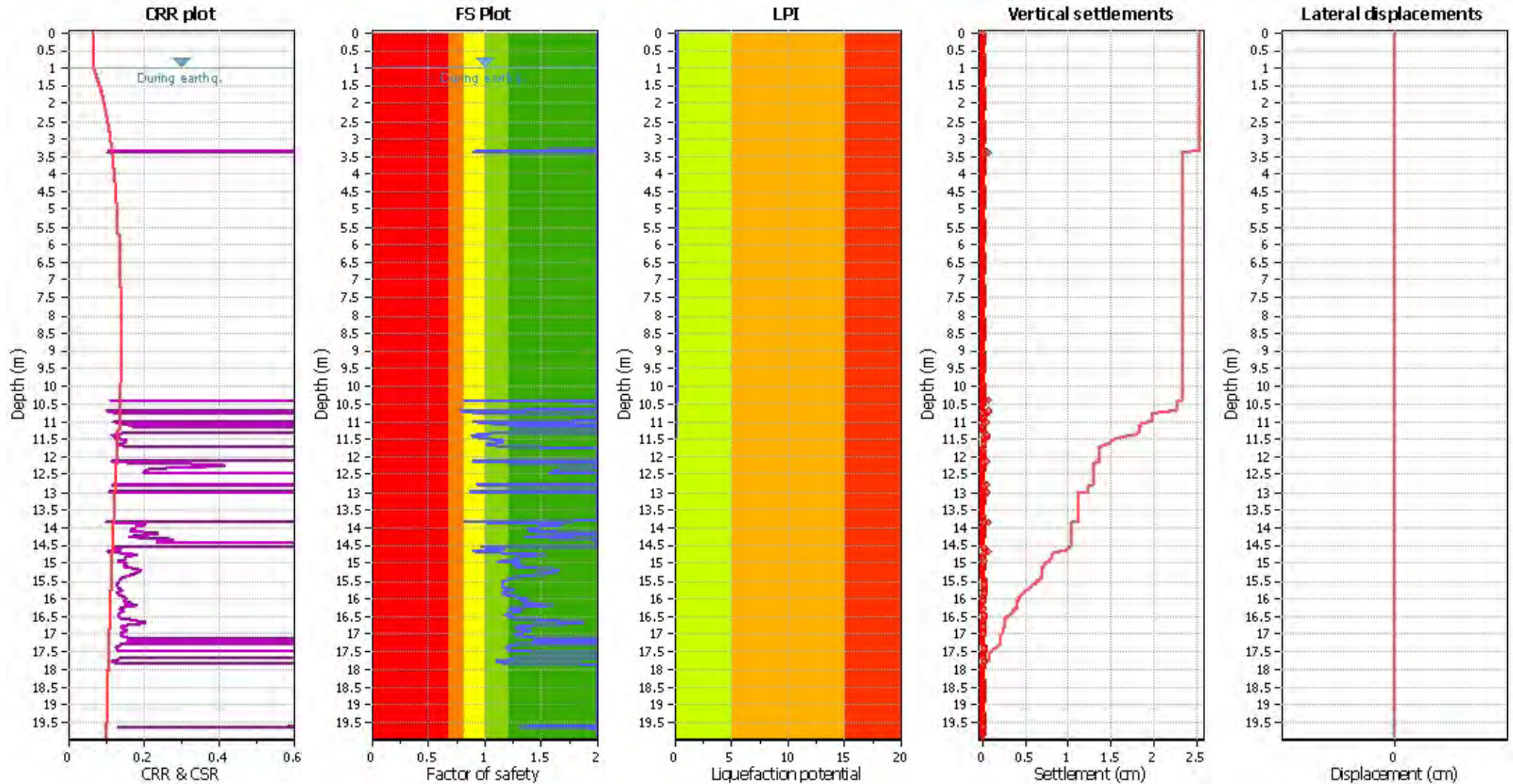
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

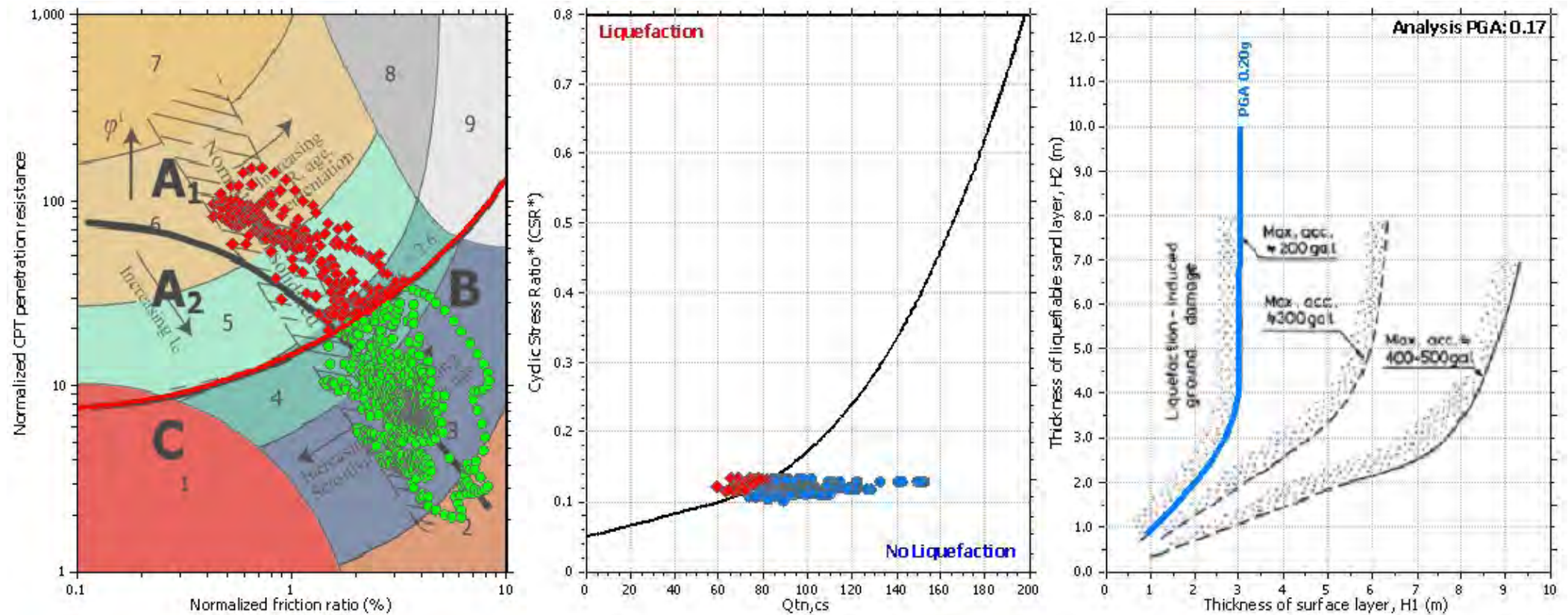
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



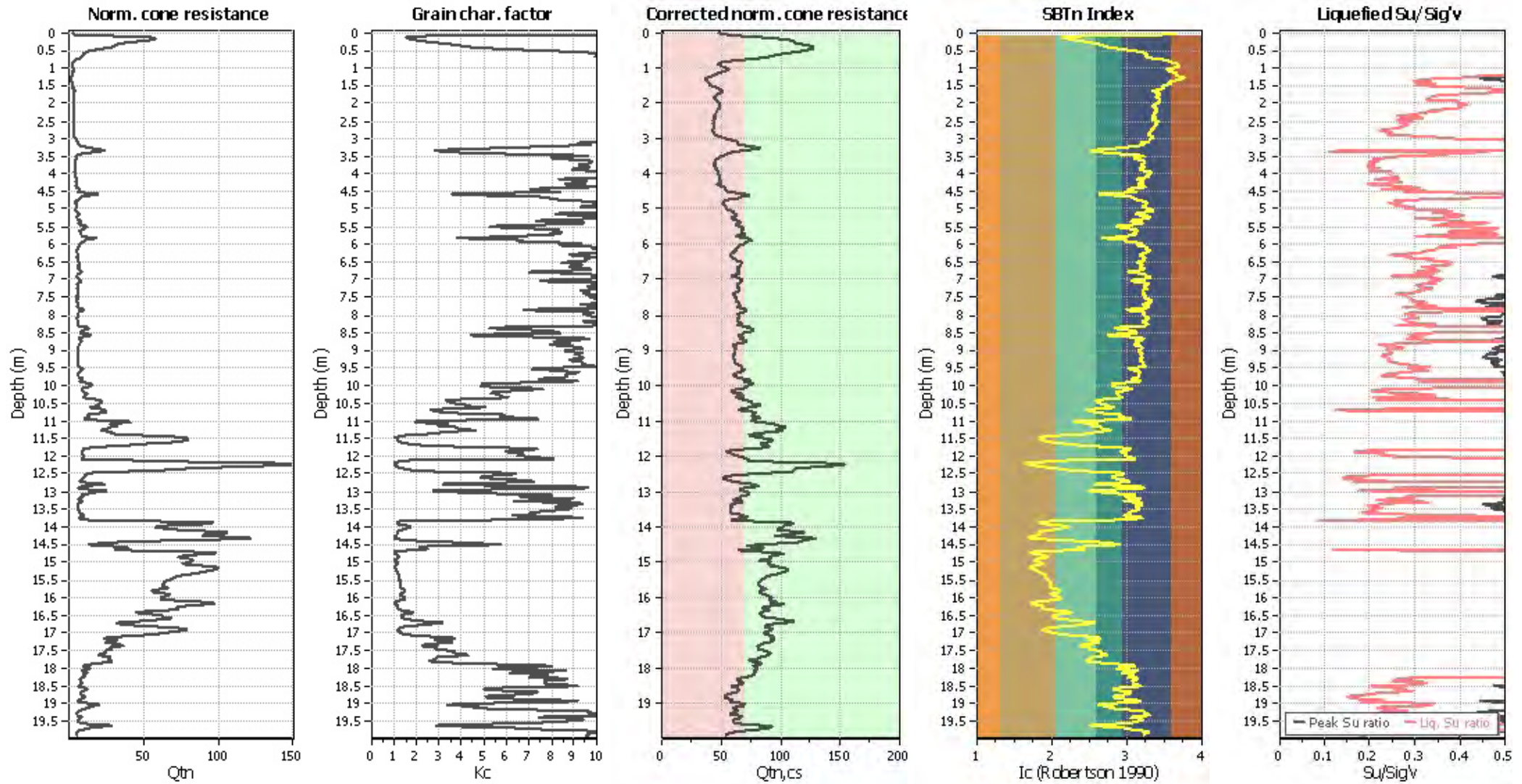
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	0.99	0.01	8.34	0.02	0.00
3.34	0.95	0.05	8.33	0.02	0.01	3.36	0.92	0.08	8.32	0.02	0.01
3.38	0.89	0.11	8.31	0.02	0.02	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	0.82	0.18	4.80	0.02	0.02
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	0.79	0.21	4.67	0.02	0.02	10.68	0.78	0.22	4.66	0.02	0.02
10.70	0.81	0.19	4.65	0.02	0.02	10.72	0.87	0.13	4.64	0.02	0.01
10.74	0.92	0.08	4.63	0.02	0.01	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	0.90	0.10	4.50	0.02	0.01
11.02	0.94	0.06	4.49	0.02	0.01	11.04	0.98	0.02	4.48	0.02	0.00
11.06	1.05	0.00	4.47	0.02	0.00	11.08	1.13	0.00	4.46	0.02	0.00
11.10	2.00	0.00	4.45	0.02	0.00	11.12	1.22	0.00	4.44	0.02	0.00
11.14	1.26	0.00	4.43	0.02	0.00	11.16	1.35	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	1.13	0.00	4.35	0.02	0.00	11.32	1.04	0.00	4.34	0.02	0.00
11.34	0.98	0.02	4.33	0.02	0.00	11.36	0.92	0.08	4.32	0.02	0.01
11.38	0.89	0.11	4.31	0.02	0.01	11.40	0.90	0.10	4.30	0.02	0.01
11.42	0.97	0.03	4.29	0.02	0.00	11.44	1.04	0.00	4.28	0.02	0.00
11.46	0.95	0.05	4.27	0.02	0.00	11.48	1.11	0.00	4.26	0.02	0.00
11.50	1.14	0.00	4.25	0.02	0.00	11.52	1.16	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.17	0.00	4.23	0.02	0.00	11.56	1.15	0.00	4.22	0.02	0.00
11.58	1.13	0.00	4.21	0.02	0.00	11.60	1.09	0.00	4.20	0.02	0.00
11.62	1.05	0.00	4.19	0.02	0.00	11.64	1.01	0.00	4.18	0.02	0.00
11.66	1.03	0.00	4.17	0.02	0.00	11.68	1.08	0.00	4.16	0.02	0.00
11.70	1.13	0.00	4.15	0.02	0.00	11.72	1.14	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	0.89	0.11	3.94	0.02	0.01
12.14	1.23	0.00	3.93	0.02	0.00	12.16	1.96	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	1.95	0.00	3.85	0.02	0.00	12.32	1.72	0.00	3.84	0.02	0.00
12.34	1.63	0.00	3.83	0.02	0.00	12.36	1.63	0.00	3.82	0.02	0.00
12.38	1.63	0.00	3.81	0.02	0.00	12.40	1.62	0.00	3.80	0.02	0.00
12.42	1.58	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	0.93	0.07	3.61	0.02	0.00	12.80	0.96	0.04	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	0.88	0.12	3.51	0.02	0.01	13.00	0.90	0.10	3.50	0.02	0.01
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	2.00	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	2.00	0.00	3.38	0.02	0.00
13.26	2.00	0.00	3.37	0.02	0.00	13.28	2.00	0.00	3.36	0.02	0.00
13.30	2.00	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	2.00	0.00	3.33	0.02	0.00	13.36	2.00	0.00	3.32	0.02	0.00
13.38	2.00	0.00	3.31	0.02	0.00	13.40	2.00	0.00	3.30	0.02	0.00
13.42	2.00	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	0.82	0.18	3.09	0.02	0.01	13.84	0.97	0.03	3.08	0.02	0.00
13.86	1.35	0.00	3.07	0.02	0.00	13.88	1.65	0.00	3.06	0.02	0.00
13.90	1.70	0.00	3.05	0.02	0.00	13.92	1.65	0.00	3.04	0.02	0.00
13.94	1.52	0.00	3.03	0.02	0.00	13.96	1.49	0.00	3.02	0.02	0.00
13.98	1.48	0.00	3.01	0.02	0.00	14.00	1.43	0.00	3.00	0.02	0.00
14.02	1.39	0.00	2.99	0.02	0.00	14.04	1.38	0.00	2.98	0.02	0.00
14.06	1.39	0.00	2.97	0.02	0.00	14.08	1.48	0.00	2.96	0.02	0.00
14.10	1.66	0.00	2.95	0.02	0.00	14.12	1.85	0.00	2.94	0.02	0.00
14.14	1.97	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	1.92	0.00	2.91	0.02	0.00	14.20	1.73	0.00	2.90	0.02	0.00
14.22	1.53	0.00	2.89	0.02	0.00	14.24	1.44	0.00	2.88	0.02	0.00
14.26	1.36	0.00	2.87	0.02	0.00	14.28	1.68	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	1.97	0.00	2.81	0.02	0.00	14.40	1.99	0.00	2.80	0.02	0.00
14.42	1.98	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	0.98	0.02	2.73	0.02	0.00	14.56	1.07	0.00	2.72	0.02	0.00
14.58	1.17	0.00	2.71	0.02	0.00	14.60	1.17	0.00	2.70	0.02	0.00
14.62	1.07	0.00	2.69	0.02	0.00	14.64	0.94	0.06	2.68	0.02	0.00
14.66	0.89	0.11	2.67	0.02	0.01	14.68	0.98	0.02	2.66	0.02	0.00
14.70	1.11	0.00	2.65	0.02	0.00	14.72	1.40	0.00	2.64	0.02	0.00
14.74	1.45	0.00	2.63	0.02	0.00	14.76	1.54	0.00	2.62	0.02	0.00
14.78	1.46	0.00	2.61	0.02	0.00	14.80	1.38	0.00	2.60	0.02	0.00
14.82	1.31	0.00	2.59	0.02	0.00	14.84	1.27	0.00	2.58	0.02	0.00
14.86	1.27	0.00	2.57	0.02	0.00	14.88	1.29	0.00	2.56	0.02	0.00
14.90	1.30	0.00	2.55	0.02	0.00	14.92	1.14	0.00	2.54	0.02	0.00
14.94	1.13	0.00	2.53	0.02	0.00	14.96	1.12	0.00	2.52	0.02	0.00
14.98	1.30	0.00	2.51	0.02	0.00	15.00	1.31	0.00	2.50	0.02	0.00
15.02	1.28	0.00	2.49	0.02	0.00	15.04	1.25	0.00	2.48	0.02	0.00
15.06	1.27	0.00	2.47	0.02	0.00	15.08	1.34	0.00	2.46	0.02	0.00
15.10	1.29	0.00	2.45	0.02	0.00	15.12	1.40	0.00	2.44	0.02	0.00
15.14	1.47	0.00	2.43	0.02	0.00	15.16	1.49	0.00	2.42	0.02	0.00
15.18	1.66	0.00	2.41	0.02	0.00	15.20	1.66	0.00	2.40	0.02	0.00
15.22	1.64	0.00	2.39	0.02	0.00	15.24	1.61	0.00	2.38	0.02	0.00
15.26	1.58	0.00	2.37	0.02	0.00	15.28	1.55	0.00	2.36	0.02	0.00
15.30	1.51	0.00	2.35	0.02	0.00	15.32	1.46	0.00	2.34	0.02	0.00
15.34	1.41	0.00	2.33	0.02	0.00	15.36	1.35	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	1.30	0.00	2.31	0.02	0.00	15.40	1.25	0.00	2.30	0.02	0.00
15.42	1.23	0.00	2.29	0.02	0.00	15.44	1.21	0.00	2.28	0.02	0.00
15.46	1.20	0.00	2.27	0.02	0.00	15.48	1.19	0.00	2.26	0.02	0.00
15.50	1.17	0.00	2.25	0.02	0.00	15.52	1.16	0.00	2.24	0.02	0.00
15.54	1.15	0.00	2.23	0.02	0.00	15.56	1.15	0.00	2.22	0.02	0.00
15.58	1.15	0.00	2.21	0.02	0.00	15.60	1.15	0.00	2.20	0.02	0.00
15.62	1.15	0.00	2.19	0.02	0.00	15.64	1.15	0.00	2.18	0.02	0.00
15.66	1.15	0.00	2.17	0.02	0.00	15.68	1.17	0.00	2.16	0.02	0.00
15.70	1.19	0.00	2.15	0.02	0.00	15.72	1.21	0.00	2.14	0.02	0.00
15.74	1.24	0.00	2.13	0.02	0.00	15.76	1.25	0.00	2.12	0.02	0.00
15.78	1.24	0.00	2.11	0.02	0.00	15.80	1.21	0.00	2.10	0.02	0.00
15.82	1.17	0.00	2.09	0.02	0.00	15.84	1.15	0.00	2.08	0.02	0.00
15.86	1.15	0.00	2.07	0.02	0.00	15.88	1.19	0.00	2.06	0.02	0.00
15.90	1.23	0.00	2.05	0.02	0.00	15.92	1.27	0.00	2.04	0.02	0.00
15.94	1.29	0.00	2.03	0.02	0.00	15.96	1.31	0.00	2.02	0.02	0.00
15.98	1.34	0.00	2.01	0.02	0.00	16.00	1.37	0.00	2.00	0.02	0.00
16.02	1.37	0.00	1.99	0.02	0.00	16.04	1.35	0.00	1.98	0.02	0.00
16.06	1.32	0.00	1.97	0.02	0.00	16.08	1.34	0.00	1.96	0.02	0.00
16.10	1.42	0.00	1.95	0.02	0.00	16.12	1.35	0.00	1.94	0.02	0.00
16.14	1.46	0.00	1.93	0.02	0.00	16.16	1.49	0.00	1.92	0.02	0.00
16.18	1.60	0.00	1.91	0.02	0.00	16.20	1.50	0.00	1.90	0.02	0.00
16.22	1.39	0.00	1.89	0.02	0.00	16.24	1.29	0.00	1.88	0.02	0.00
16.26	1.24	0.00	1.87	0.02	0.00	16.28	1.22	0.00	1.86	0.02	0.00
16.30	1.25	0.00	1.85	0.02	0.00	16.32	1.30	0.00	1.84	0.02	0.00
16.34	1.32	0.00	1.83	0.02	0.00	16.36	1.30	0.00	1.82	0.02	0.00
16.38	1.25	0.00	1.81	0.02	0.00	16.40	1.23	0.00	1.80	0.02	0.00
16.42	1.20	0.00	1.79	0.02	0.00	16.44	1.18	0.00	1.78	0.02	0.00
16.46	1.19	0.00	1.77	0.02	0.00	16.48	1.20	0.00	1.76	0.02	0.00
16.50	1.22	0.00	1.75	0.02	0.00	16.52	1.22	0.00	1.74	0.02	0.00
16.54	1.24	0.00	1.73	0.02	0.00	16.56	1.29	0.00	1.72	0.02	0.00
16.58	1.37	0.00	1.71	0.02	0.00	16.60	1.46	0.00	1.70	0.02	0.00
16.62	1.53	0.00	1.69	0.02	0.00	16.64	1.62	0.00	1.68	0.02	0.00
16.66	1.75	0.00	1.67	0.02	0.00	16.68	1.87	0.00	1.66	0.02	0.00
16.70	1.83	0.00	1.65	0.02	0.00	16.72	1.73	0.00	1.64	0.02	0.00
16.74	1.55	0.00	1.63	0.02	0.00	16.76	1.42	0.00	1.62	0.02	0.00
16.78	1.31	0.00	1.61	0.02	0.00	16.80	1.27	0.00	1.60	0.02	0.00
16.82	1.28	0.00	1.59	0.02	0.00	16.84	1.32	0.00	1.58	0.02	0.00
16.86	1.37	0.00	1.57	0.02	0.00	16.88	1.41	0.00	1.56	0.02	0.00
16.90	1.41	0.00	1.55	0.02	0.00	16.92	1.38	0.00	1.54	0.02	0.00
16.94	1.32	0.00	1.53	0.02	0.00	16.96	1.29	0.00	1.52	0.02	0.00
16.98	1.28	0.00	1.51	0.02	0.00	17.00	1.27	0.00	1.50	0.02	0.00
17.02	1.29	0.00	1.49	0.02	0.00	17.04	1.31	0.00	1.48	0.02	0.00
17.06	1.35	0.00	1.47	0.02	0.00	17.08	1.42	0.00	1.46	0.02	0.00
17.10	1.45	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	1.45	0.00	1.41	0.02	0.00	17.20	1.44	0.00	1.40	0.02	0.00
17.22	1.42	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	1.30	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	1.25	0.00	1.35	0.02	0.00	17.32	1.23	0.00	1.34	0.02	0.00
17.34	1.22	0.00	1.33	0.02	0.00	17.36	1.19	0.00	1.32	0.02	0.00
17.38	1.19	0.00	1.31	0.02	0.00	17.40	1.20	0.00	1.30	0.02	0.00
17.42	1.21	0.00	1.29	0.02	0.00	17.44	1.21	0.00	1.28	0.02	0.00
17.46	1.20	0.00	1.27	0.02	0.00	17.48	1.23	0.00	1.26	0.02	0.00
17.50	1.28	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	1.29	0.00	1.16	0.02	0.00
17.70	1.25	0.00	1.15	0.02	0.00	17.72	1.21	0.00	1.14	0.02	0.00
17.74	1.14	0.00	1.13	0.02	0.00	17.76	1.10	0.00	1.12	0.02	0.00
17.78	1.10	0.00	1.11	0.02	0.00	17.80	1.15	0.00	1.10	0.02	0.00
17.82	1.21	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	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
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	1.30	0.00	0.20	0.02	0.00
19.62	1.44	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 0.24**

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

## LIQUEFACTION ANALYSIS REPORT

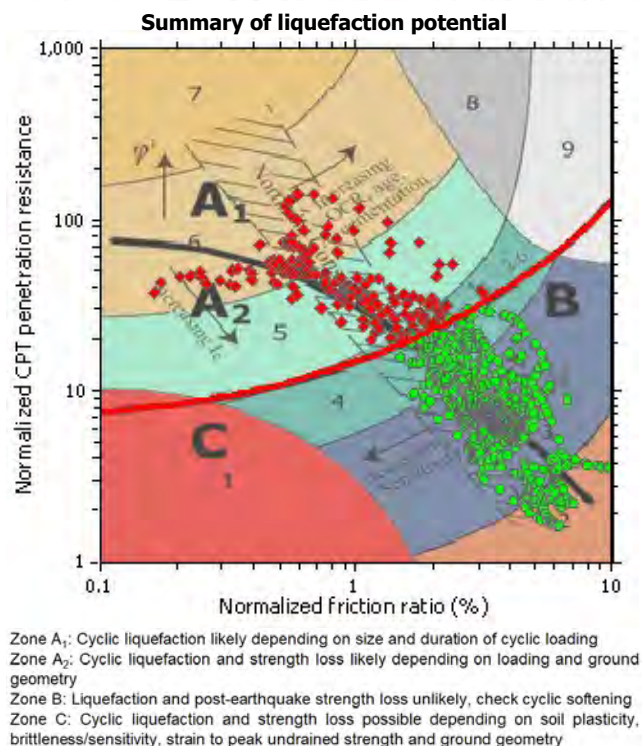
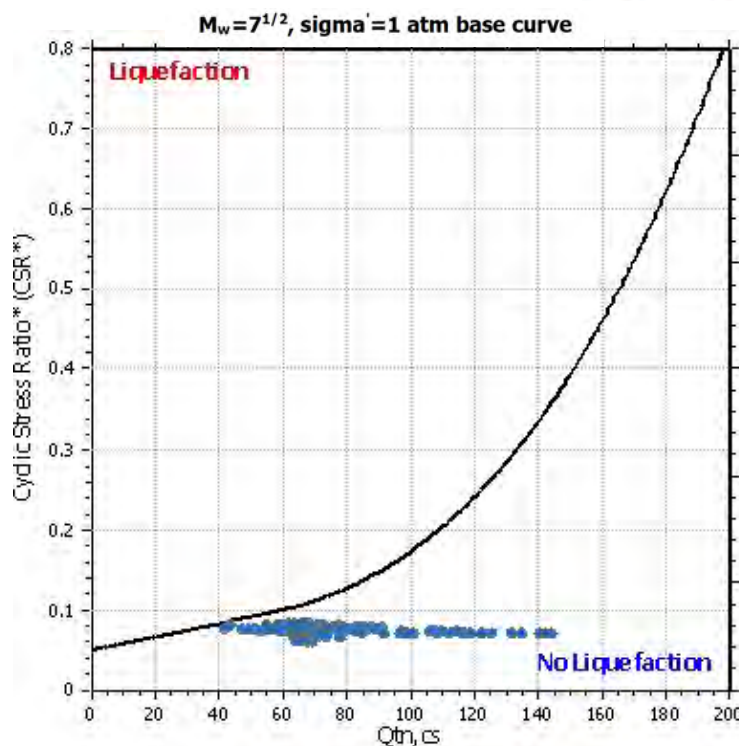
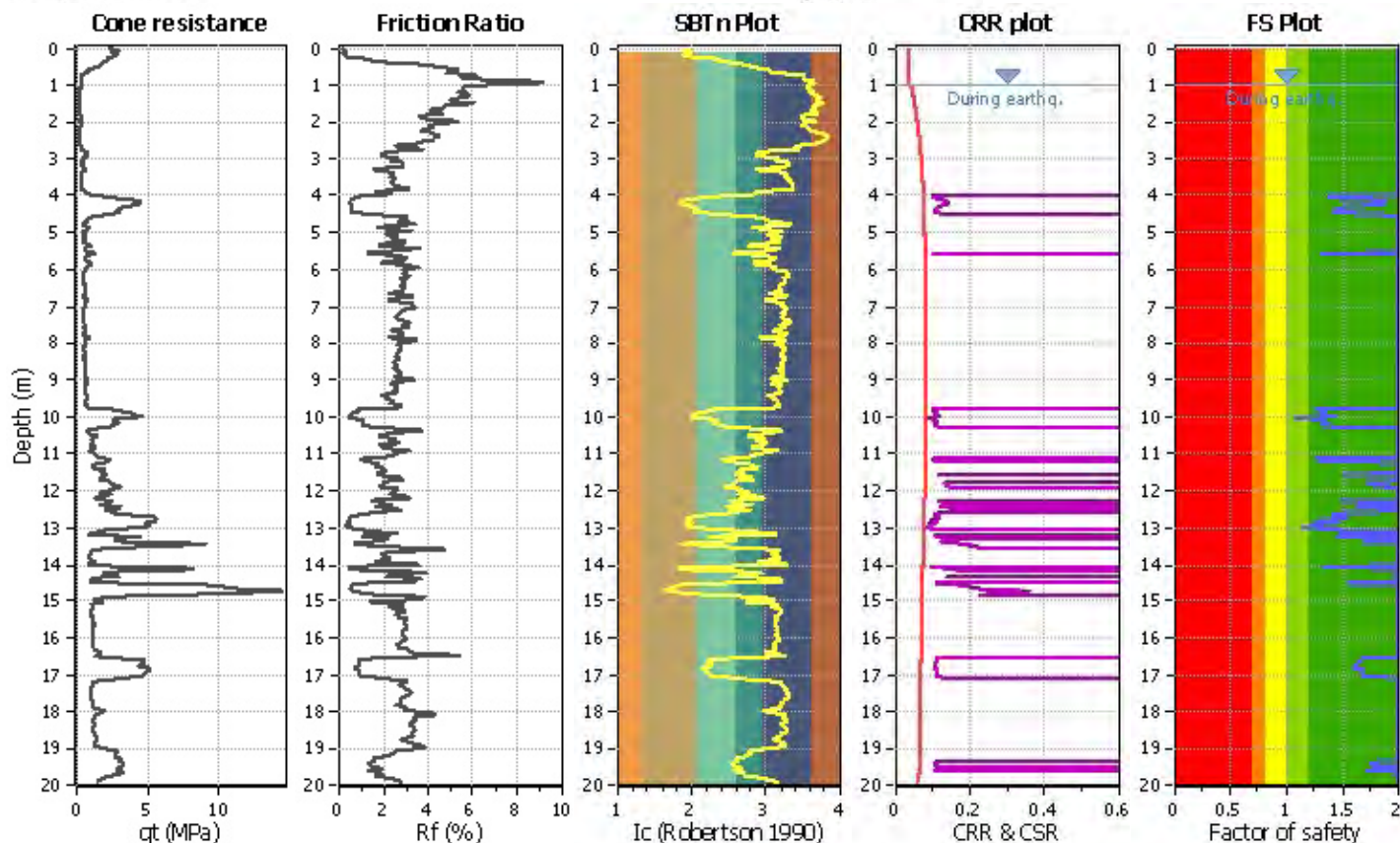
**Project title :**

**Location :**

**CPT file : CPTU2**

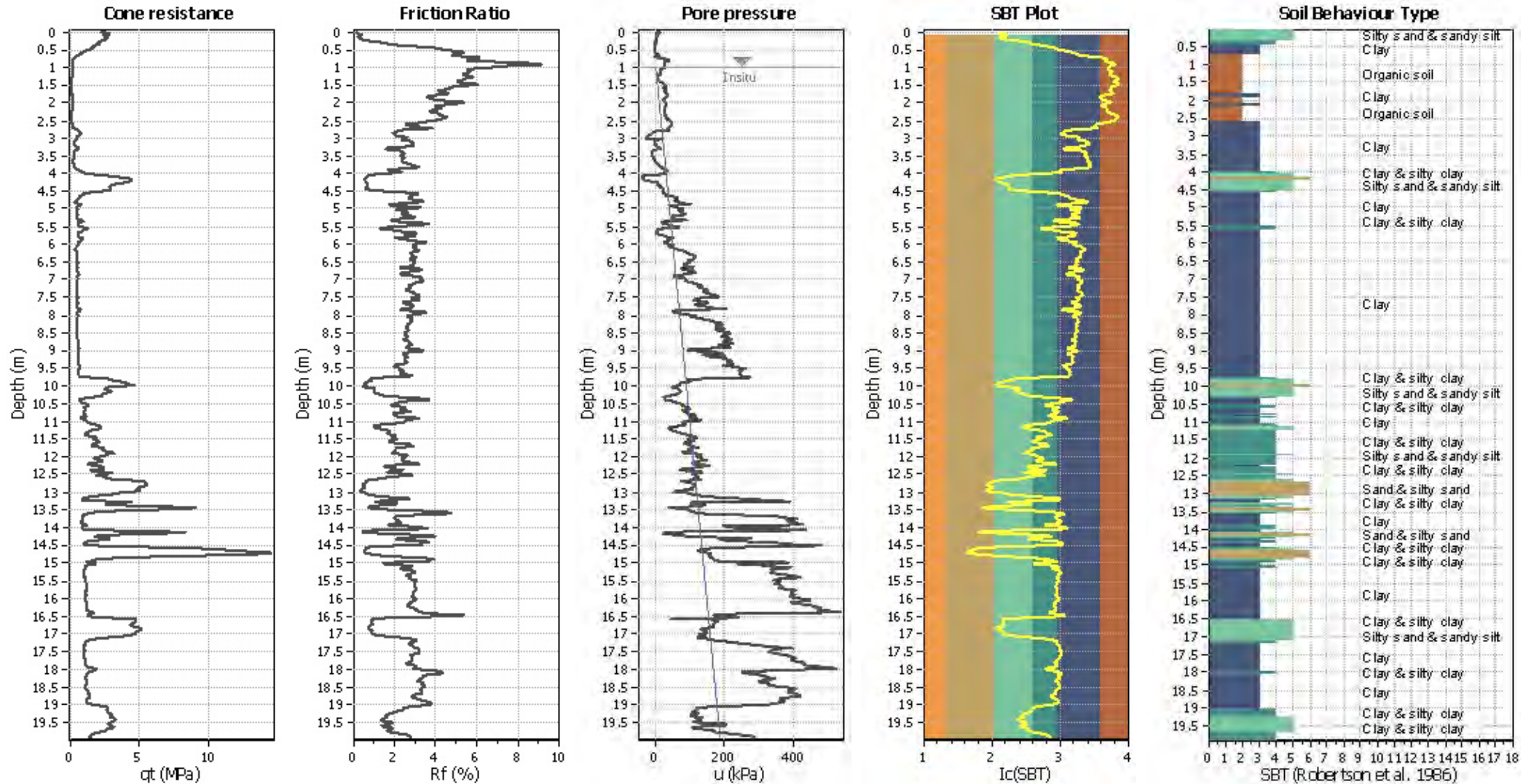
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based





## CPT basic interpretation plo



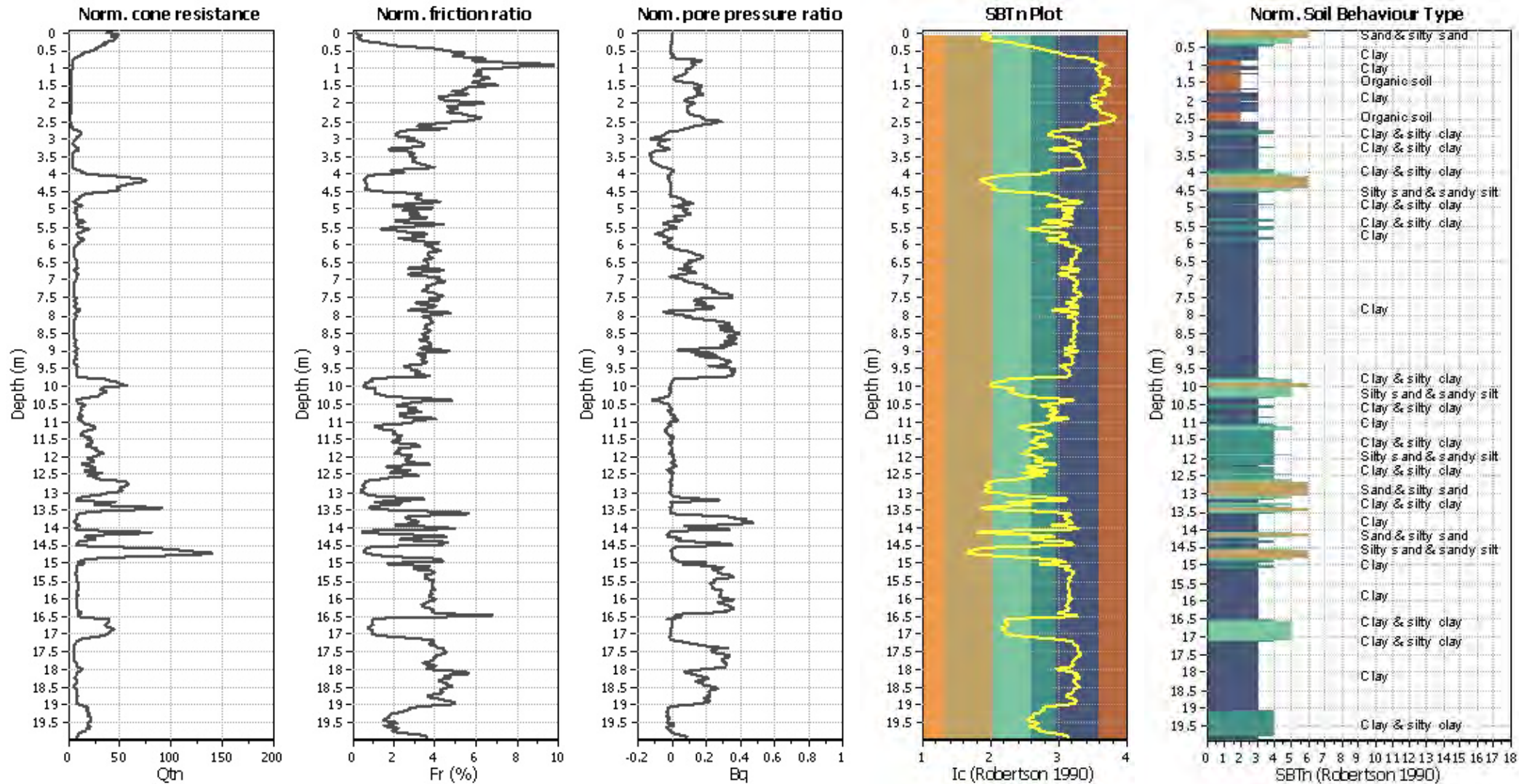
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

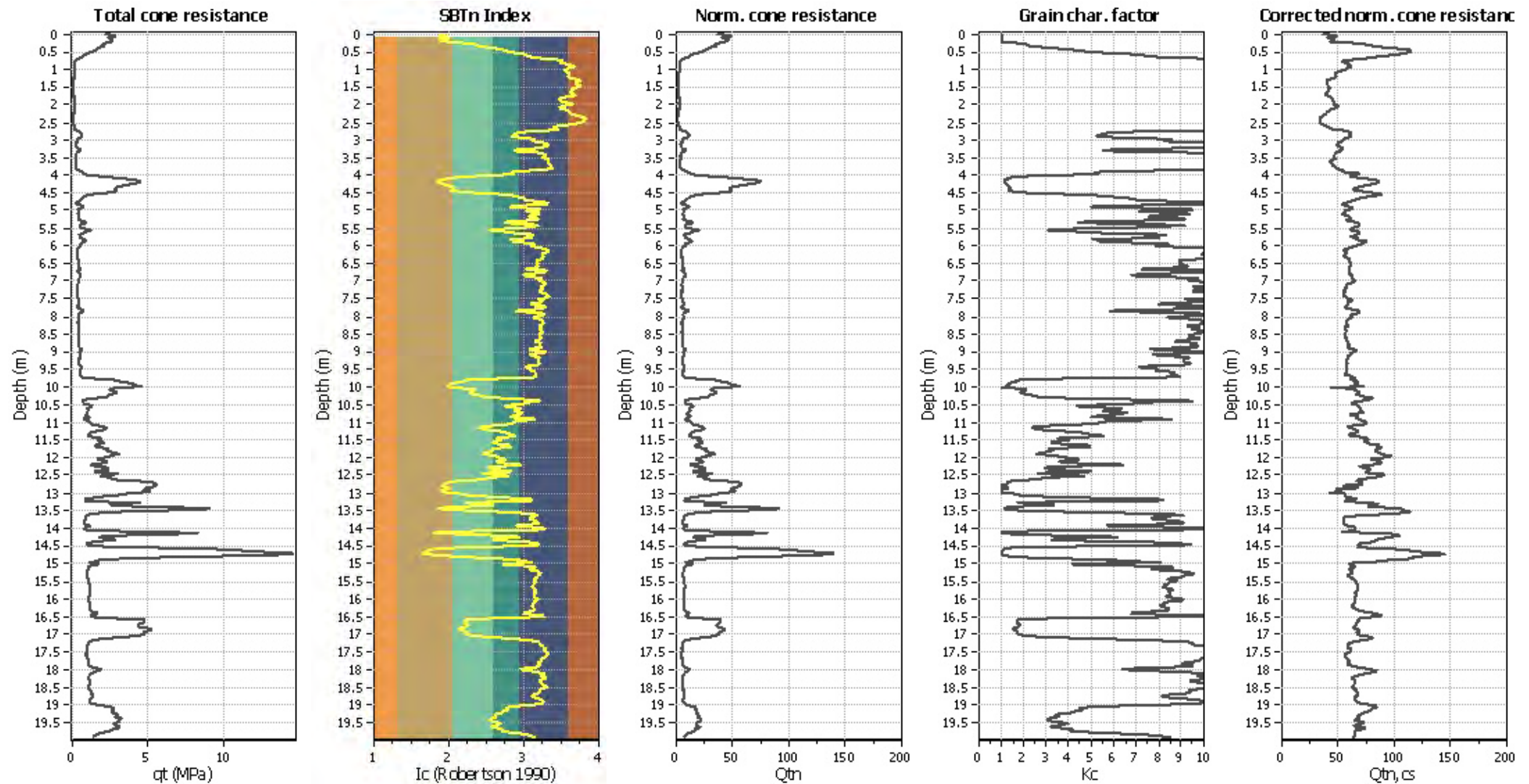
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



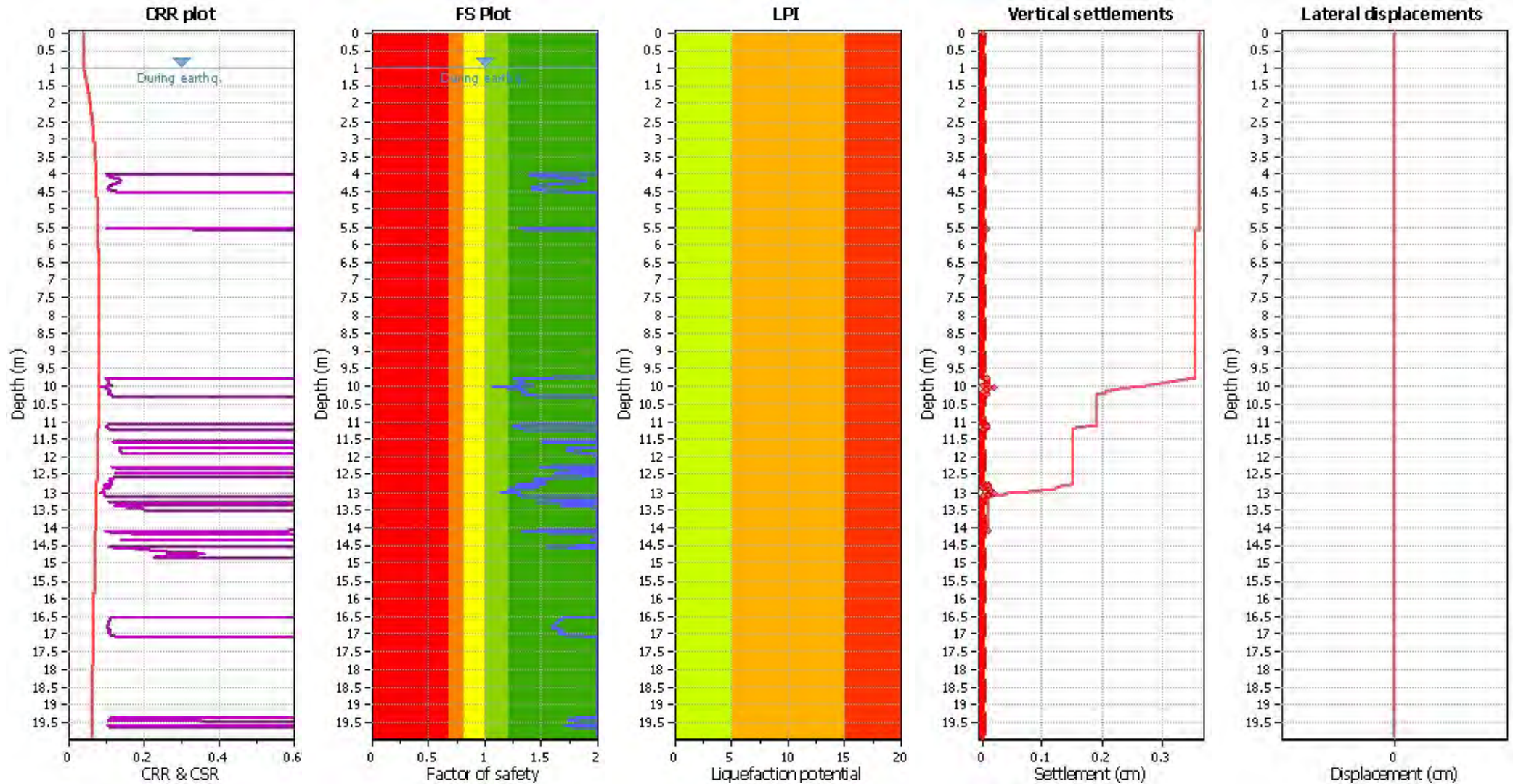
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

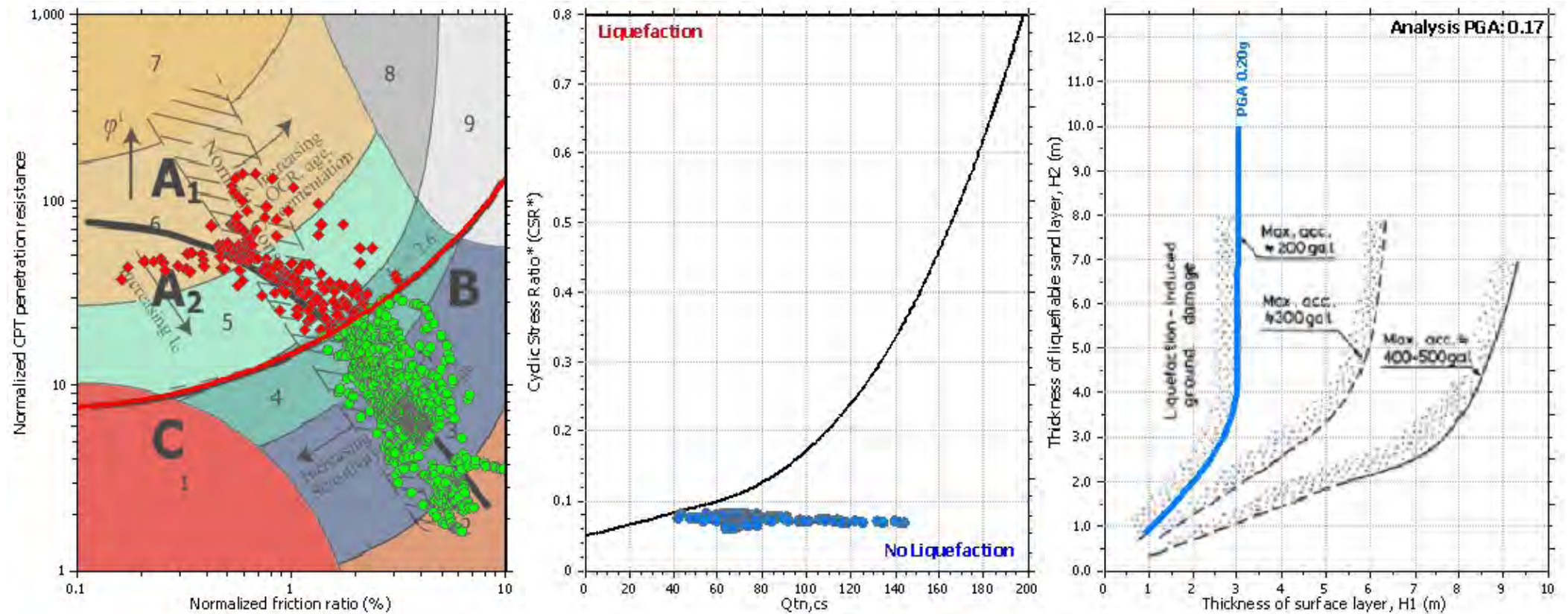
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



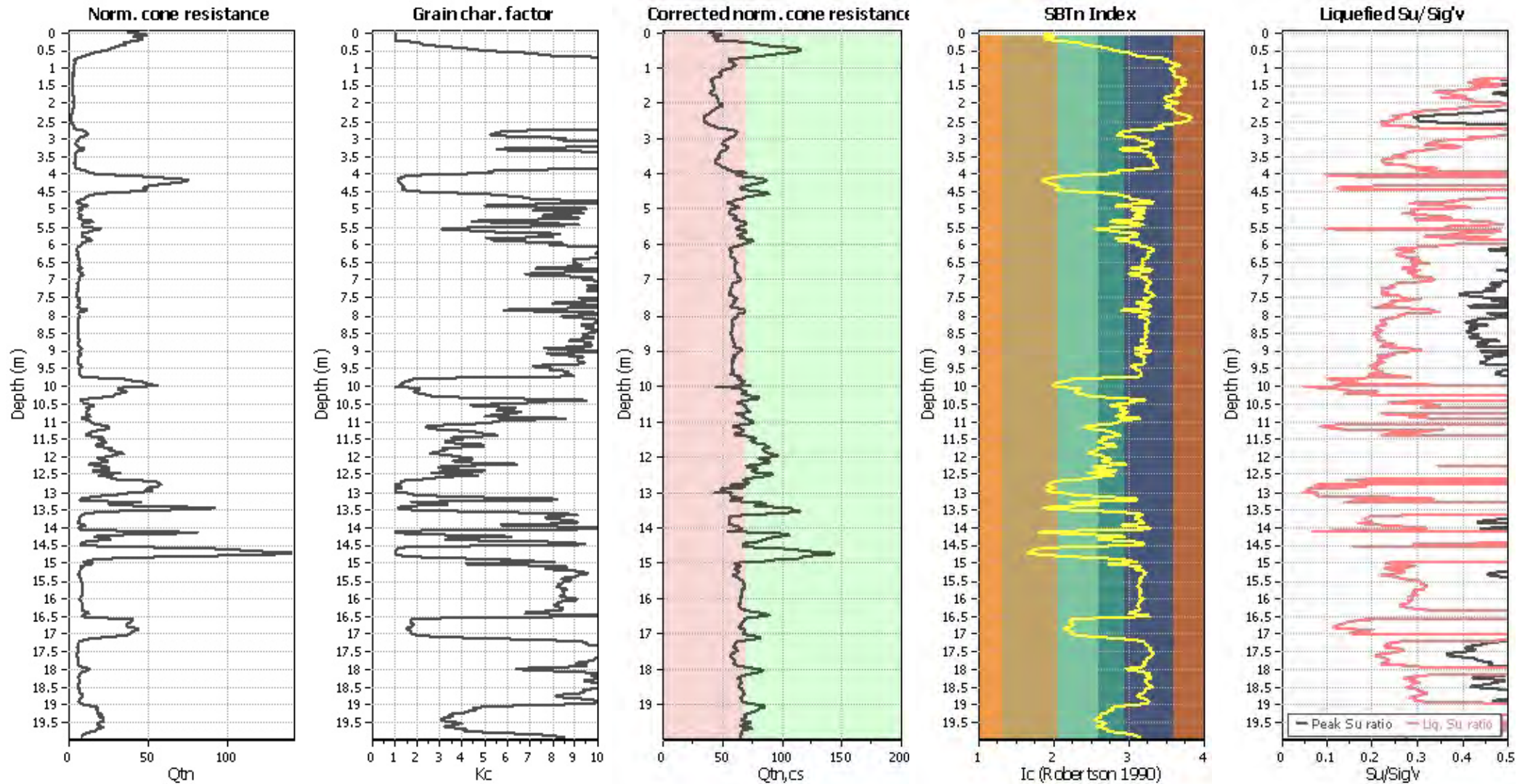
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	1.38	0.00	8.00	0.02	0.00
4.02	1.39	0.00	7.99	0.02	0.00	4.04	1.44	0.00	7.98	0.02	0.00
4.06	1.50	0.00	7.97	0.02	0.00	4.08	1.60	0.00	7.96	0.02	0.00
4.10	1.70	0.00	7.95	0.02	0.00	4.12	1.80	0.00	7.94	0.02	0.00
4.14	1.84	0.00	7.93	0.02	0.00	4.16	1.87	0.00	7.92	0.02	0.00
4.18	1.90	0.00	7.91	0.02	0.00	4.20	1.89	0.00	7.90	0.02	0.00
4.22	1.87	0.00	7.89	0.02	0.00	4.24	1.80	0.00	7.88	0.02	0.00
4.26	1.73	0.00	7.87	0.02	0.00	4.28	1.65	0.00	7.86	0.02	0.00
4.30	1.59	0.00	7.85	0.02	0.00	4.32	1.53	0.00	7.84	0.02	0.00
4.34	1.49	0.00	7.83	0.02	0.00	4.36	1.47	0.00	7.82	0.02	0.00
4.38	1.43	0.00	7.81	0.02	0.00	4.40	1.41	0.00	7.80	0.02	0.00
4.42	1.41	0.00	7.79	0.02	0.00	4.44	1.44	0.00	7.78	0.02	0.00
4.46	1.51	0.00	7.77	0.02	0.00	4.48	1.58	0.00	7.76	0.02	0.00
4.50	1.69	0.00	7.75	0.02	0.00	4.52	1.82	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	1.31	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	1.26	0.00	5.12	0.02	0.00
9.78	1.26	0.00	5.11	0.02	0.00	9.80	1.28	0.00	5.10	0.02	0.00
9.82	1.32	0.00	5.09	0.02	0.00	9.84	1.35	0.00	5.08	0.02	0.00
9.86	1.35	0.00	5.07	0.02	0.00	9.88	1.33	0.00	5.06	0.02	0.00
9.90	1.32	0.00	5.05	0.02	0.00	9.92	1.31	0.00	5.04	0.02	0.00
9.94	1.34	0.00	5.03	0.02	0.00	9.96	1.40	0.00	5.02	0.02	0.00
9.98	1.44	0.00	5.01	0.02	0.00	10.00	1.32	0.00	5.00	0.02	0.00
10.02	1.07	0.00	4.99	0.02	0.00	10.04	1.18	0.00	4.98	0.02	0.00
10.06	1.26	0.00	4.97	0.02	0.00	10.08	1.31	0.00	4.96	0.02	0.00
10.10	1.32	0.00	4.95	0.02	0.00	10.12	1.33	0.00	4.94	0.02	0.00
10.14	1.36	0.00	4.93	0.02	0.00	10.16	1.37	0.00	4.92	0.02	0.00
10.18	1.36	0.00	4.91	0.02	0.00	10.20	1.34	0.00	4.90	0.02	0.00
10.22	1.33	0.00	4.89	0.02	0.00	10.24	1.37	0.00	4.88	0.02	0.00
10.26	1.45	0.00	4.87	0.02	0.00	10.28	1.54	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	2.00	0.00	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	2.00	0.00	4.67	0.02	0.00	10.68	2.00	0.00	4.66	0.02	0.00
10.70	2.00	0.00	4.65	0.02	0.00	10.72	2.00	0.00	4.64	0.02	0.00
10.74	2.00	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	2.00	0.00	4.50	0.02	0.00
11.02	2.00	0.00	4.49	0.02	0.00	11.04	2.00	0.00	4.48	0.02	0.00
11.06	2.00	0.00	4.47	0.02	0.00	11.08	2.00	0.00	4.46	0.02	0.00
11.10	1.32	0.00	4.45	0.02	0.00	11.12	1.27	0.00	4.44	0.02	0.00
11.14	1.26	0.00	4.43	0.02	0.00	11.16	1.27	0.00	4.42	0.02	0.00
11.18	1.31	0.00	4.41	0.02	0.00	11.20	1.35	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.51	0.00	4.23	0.02	0.00	11.56	1.54	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	1.76	0.00	4.12	0.02	0.00
11.78	1.72	0.00	4.11	0.02	0.00	11.80	1.74	0.00	4.10	0.02	0.00
11.82	1.74	0.00	4.09	0.02	0.00	11.84	1.78	0.00	4.08	0.02	0.00
11.86	1.79	0.00	4.07	0.02	0.00	11.88	1.84	0.00	4.06	0.02	0.00
11.90	1.87	0.00	4.05	0.02	0.00	11.92	1.96	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	1.49	0.00	3.87	0.02	0.00	12.28	1.59	0.00	3.86	0.02	0.00
12.30	1.66	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	1.63	0.00	3.79	0.02	0.00	12.44	1.79	0.00	3.78	0.02	0.00
12.46	1.94	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	1.75	0.00	3.72	0.02	0.00
12.58	1.63	0.00	3.71	0.02	0.00	12.60	1.55	0.00	3.70	0.02	0.00
12.62	1.47	0.00	3.69	0.02	0.00	12.64	1.43	0.00	3.68	0.02	0.00
12.66	1.43	0.00	3.67	0.02	0.00	12.68	1.48	0.00	3.66	0.02	0.00
12.70	1.52	0.00	3.65	0.02	0.00	12.72	1.54	0.00	3.64	0.02	0.00
12.74	1.54	0.00	3.63	0.02	0.00	12.76	1.51	0.00	3.62	0.02	0.00
12.78	1.30	0.00	3.61	0.02	0.00	12.80	1.30	0.00	3.60	0.02	0.00
12.82	1.29	0.00	3.59	0.02	0.00	12.84	1.47	0.00	3.58	0.02	0.00
12.86	1.45	0.00	3.57	0.02	0.00	12.88	1.41	0.00	3.56	0.02	0.00
12.90	1.22	0.00	3.55	0.02	0.00	12.92	1.24	0.00	3.54	0.02	0.00
12.94	1.25	0.00	3.53	0.02	0.00	12.96	1.25	0.00	3.52	0.02	0.00
12.98	1.21	0.00	3.51	0.02	0.00	13.00	1.15	0.00	3.50	0.02	0.00
13.02	1.31	0.00	3.49	0.02	0.00	13.04	1.30	0.00	3.48	0.02	0.00
13.06	1.30	0.00	3.47	0.02	0.00	13.08	1.32	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	1.46	0.00	3.38	0.02	0.00
13.26	1.59	0.00	3.37	0.02	0.00	13.28	1.72	0.00	3.36	0.02	0.00
13.30	1.83	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	1.82	0.00	3.33	0.02	0.00	13.36	1.69	0.00	3.32	0.02	0.00
13.38	1.68	0.00	3.31	0.02	0.00	13.40	1.88	0.00	3.30	0.02	0.00
13.42	2.00	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	2.00	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	2.00	0.00	3.04	0.02	0.00
13.94	2.00	0.00	3.03	0.02	0.00	13.96	2.00	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	1.40	0.00	2.97	0.02	0.00	14.08	1.33	0.00	2.96	0.02	0.00
14.10	1.63	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	1.95	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	1.56	0.00	2.74	0.02	0.00
14.54	1.62	0.00	2.73	0.02	0.00	14.56	1.96	0.00	2.72	0.02	0.00
14.58	2.00	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	1.71	0.00	1.73	0.02	0.00	16.56	1.66	0.00	1.72	0.02	0.00
16.58	1.67	0.00	1.71	0.02	0.00	16.60	1.67	0.00	1.70	0.02	0.00
16.62	1.67	0.00	1.69	0.02	0.00	16.64	1.66	0.00	1.68	0.02	0.00
16.66	1.64	0.00	1.67	0.02	0.00	16.68	1.64	0.00	1.66	0.02	0.00
16.70	1.63	0.00	1.65	0.02	0.00	16.72	1.63	0.00	1.64	0.02	0.00
16.74	1.62	0.00	1.63	0.02	0.00	16.76	1.61	0.00	1.62	0.02	0.00
16.78	1.60	0.00	1.61	0.02	0.00	16.80	1.59	0.00	1.60	0.02	0.00
16.82	1.60	0.00	1.59	0.02	0.00	16.84	1.64	0.00	1.58	0.02	0.00
16.86	1.67	0.00	1.57	0.02	0.00	16.88	1.69	0.00	1.56	0.02	0.00
16.90	1.69	0.00	1.55	0.02	0.00	16.92	1.68	0.00	1.54	0.02	0.00
16.94	1.67	0.00	1.53	0.02	0.00	16.96	1.66	0.00	1.52	0.02	0.00
16.98	1.67	0.00	1.51	0.02	0.00	17.00	1.68	0.00	1.50	0.02	0.00
17.02	1.74	0.00	1.49	0.02	0.00	17.04	1.81	0.00	1.48	0.02	0.00
17.06	1.91	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	1.82	0.00	0.31	0.02	0.00	19.40	1.79	0.00	0.30	0.02	0.00
19.42	1.75	0.00	0.29	0.02	0.00	19.44	1.75	0.00	0.28	0.02	0.00
19.46	1.78	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	1.72	0.00	0.21	0.02	0.00	19.60	1.78	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

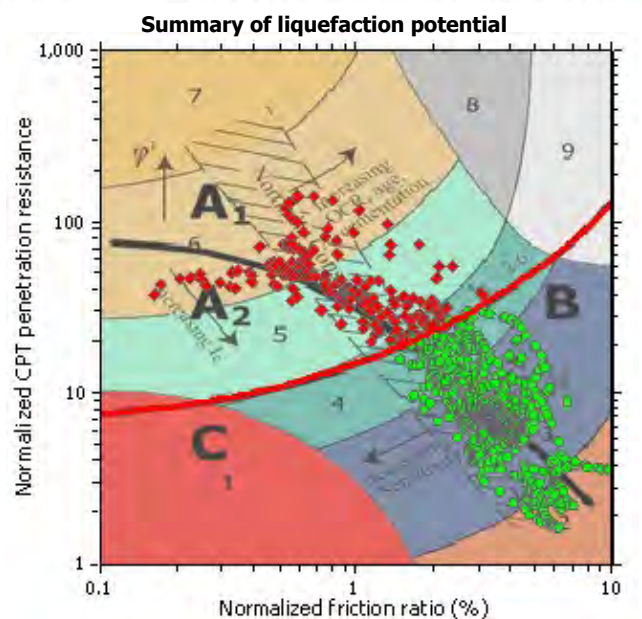
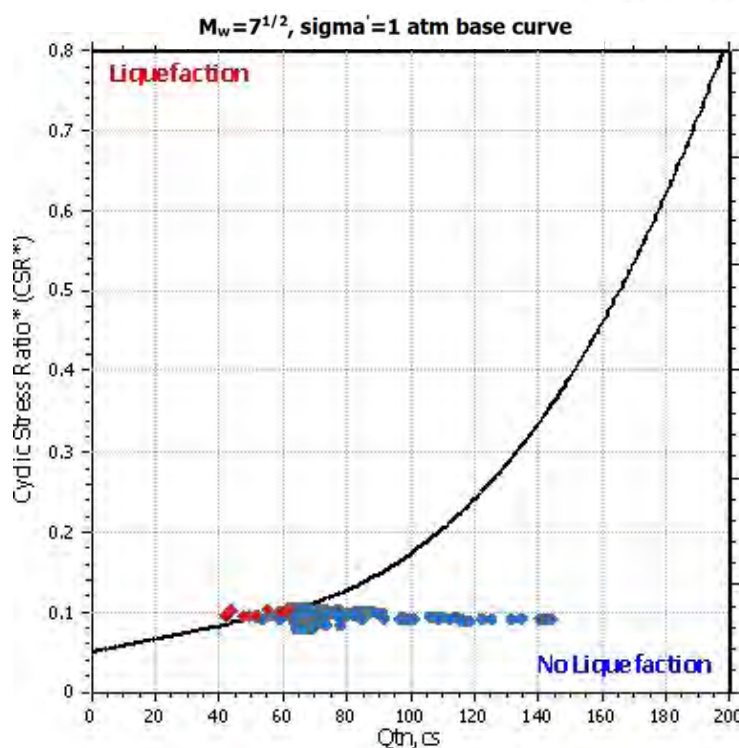
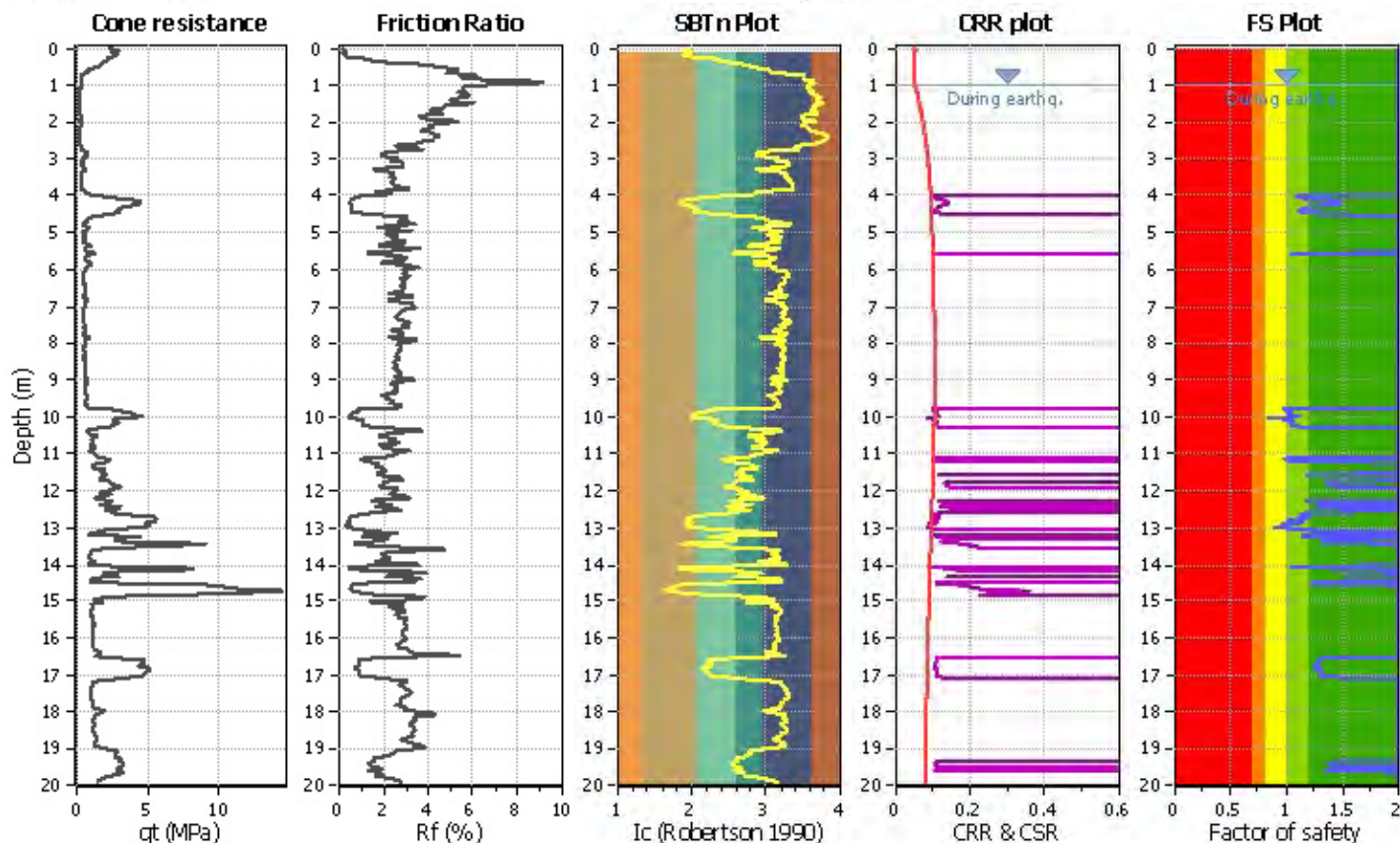
**Project title :**

**Location :**

**CPT file : CPTU2**

### Input parameters and analysis data

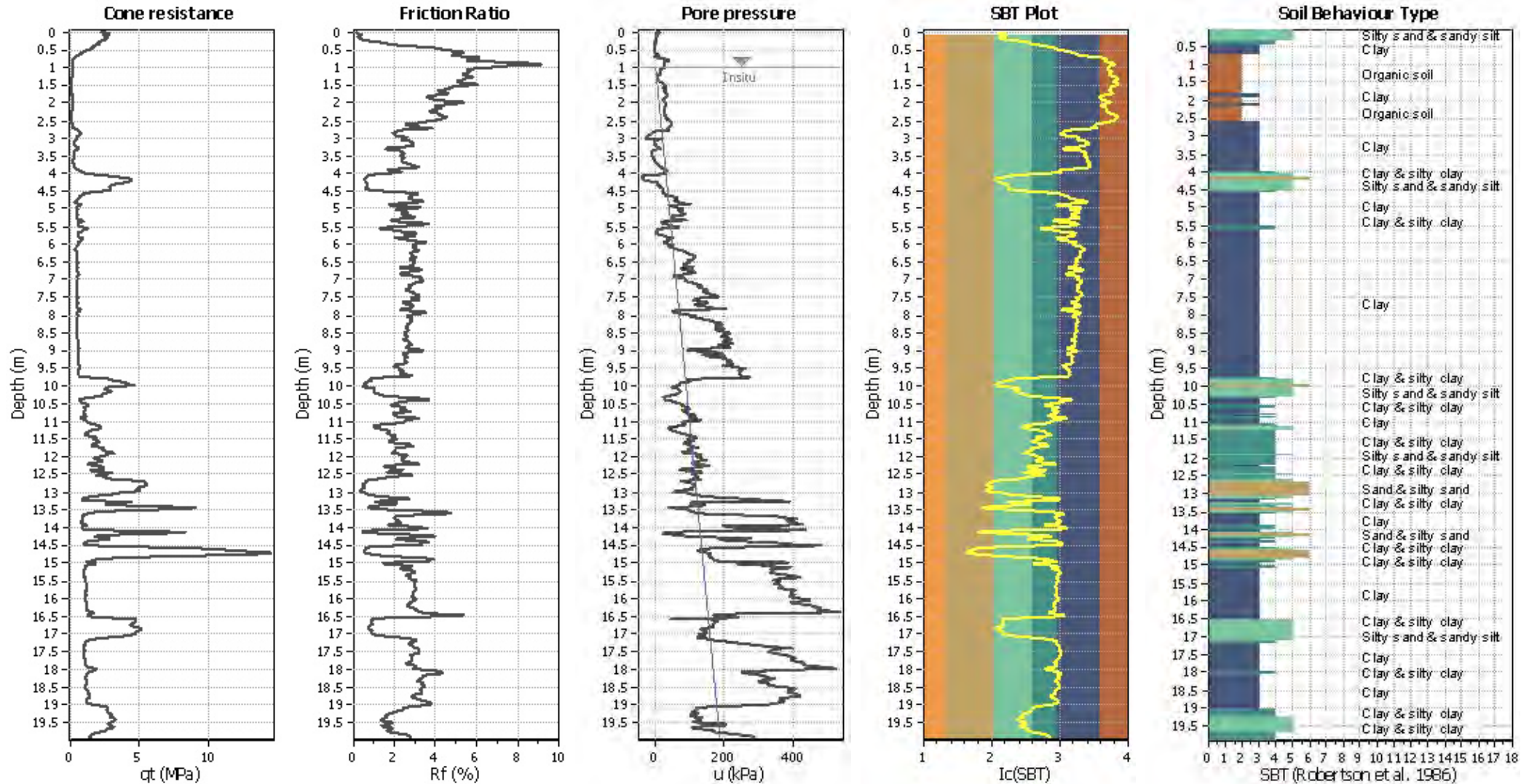
Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude $M_w$ :	5.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		



Zone A<sub>1</sub>: Cyclic liquefaction likely depending on size and duration of cyclic loading  
 Zone A<sub>2</sub>: 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 plo



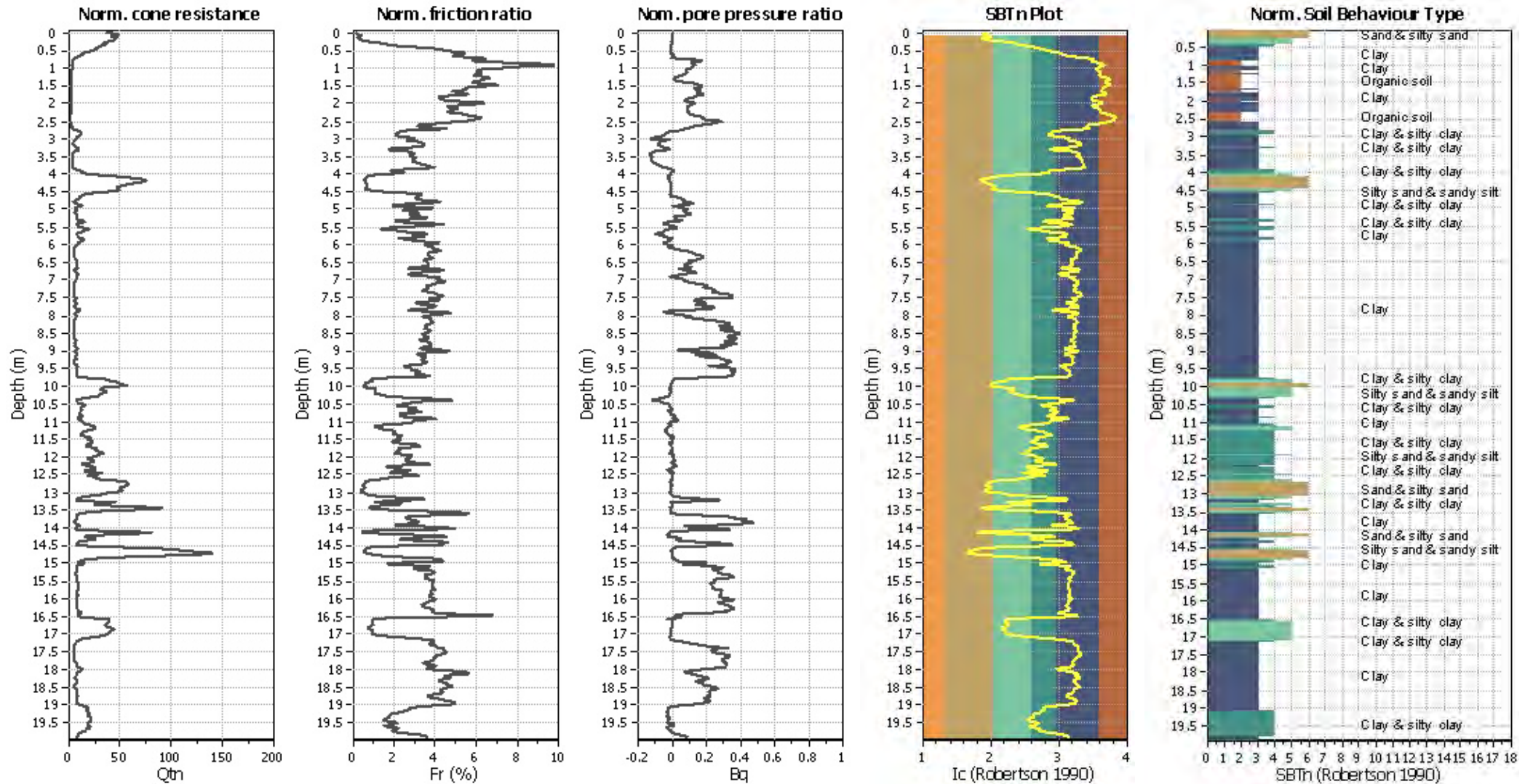
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

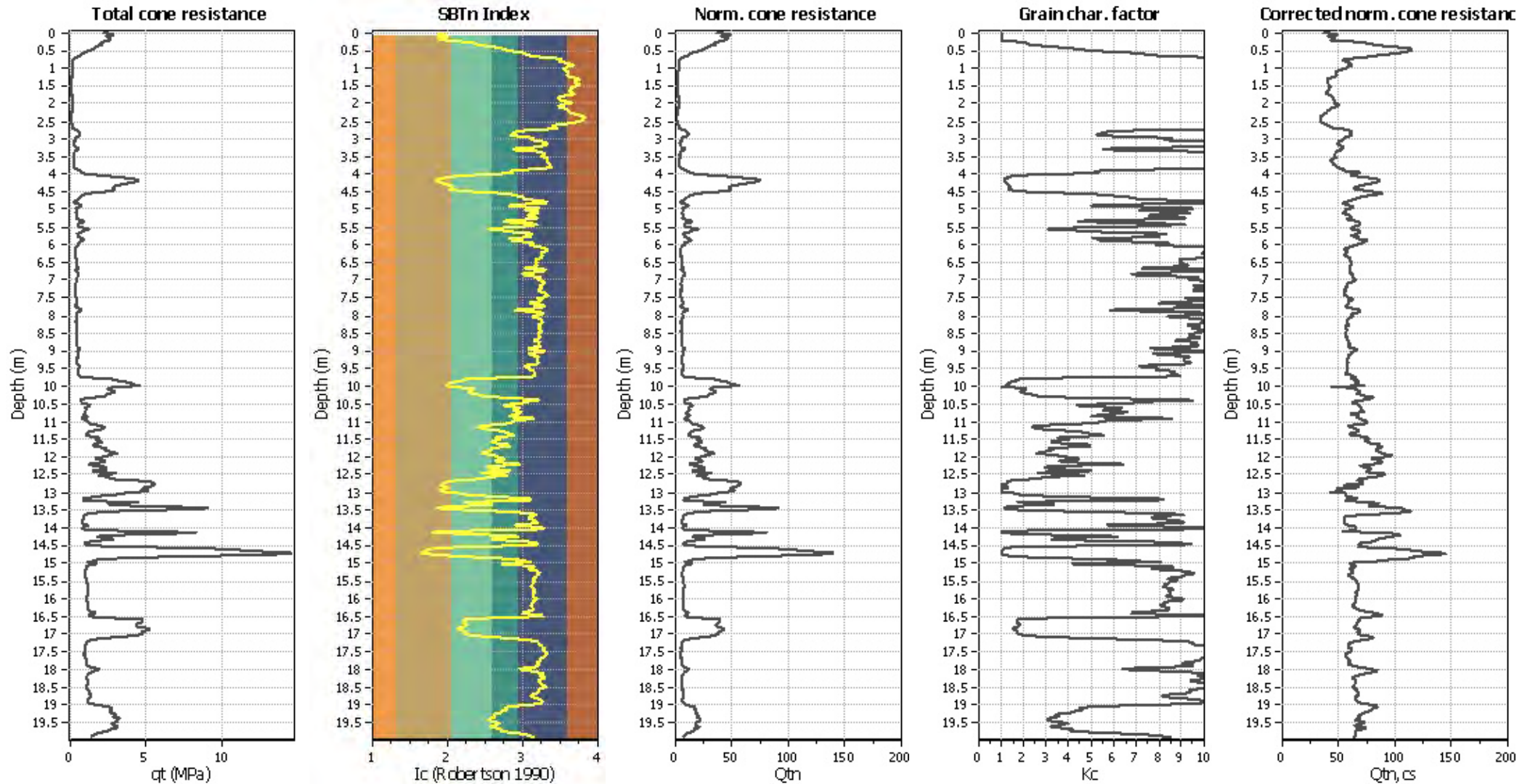
1. Sensitive fine grained	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz





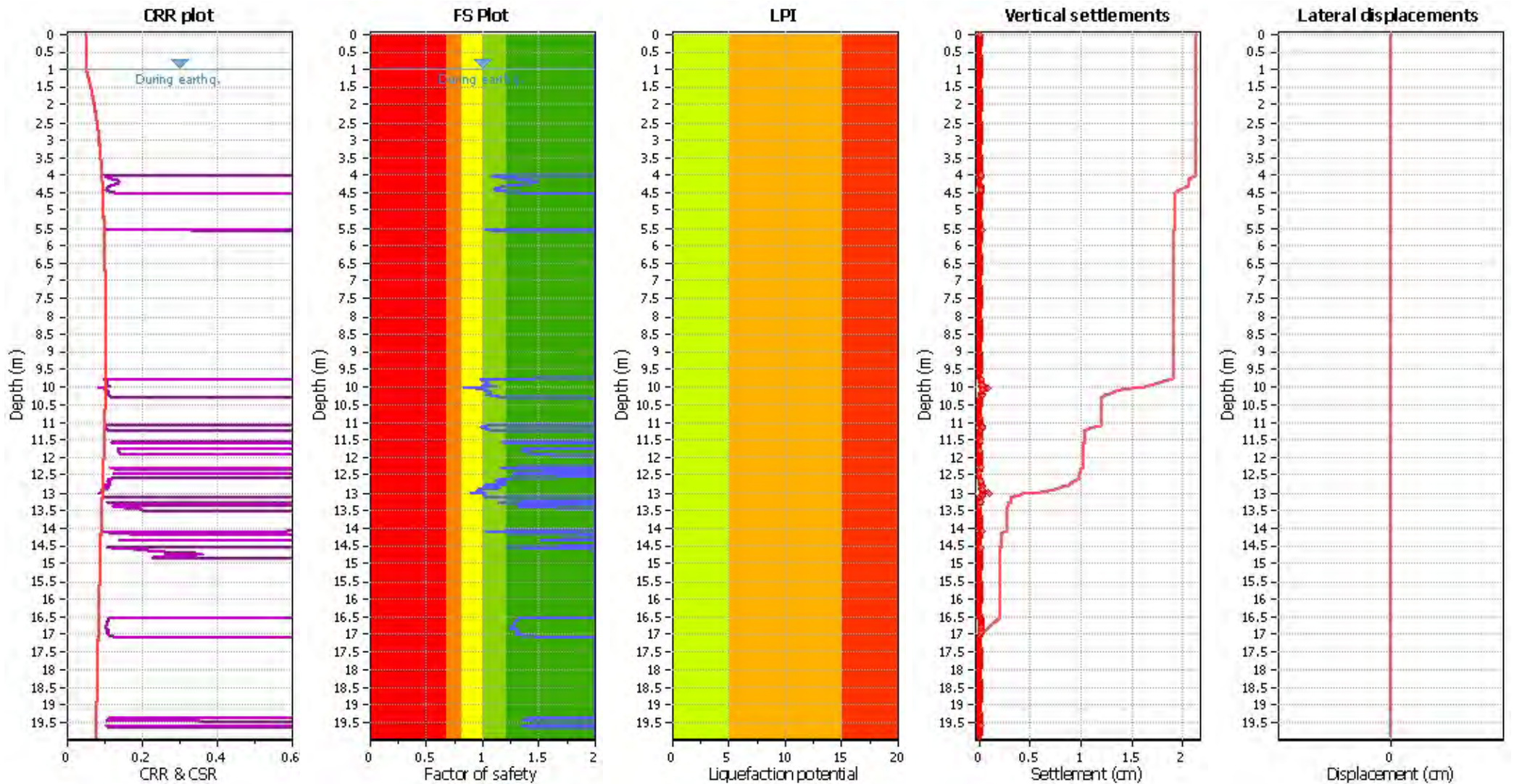
### Liquefaction analysis overall plots (intermediate res)



#### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

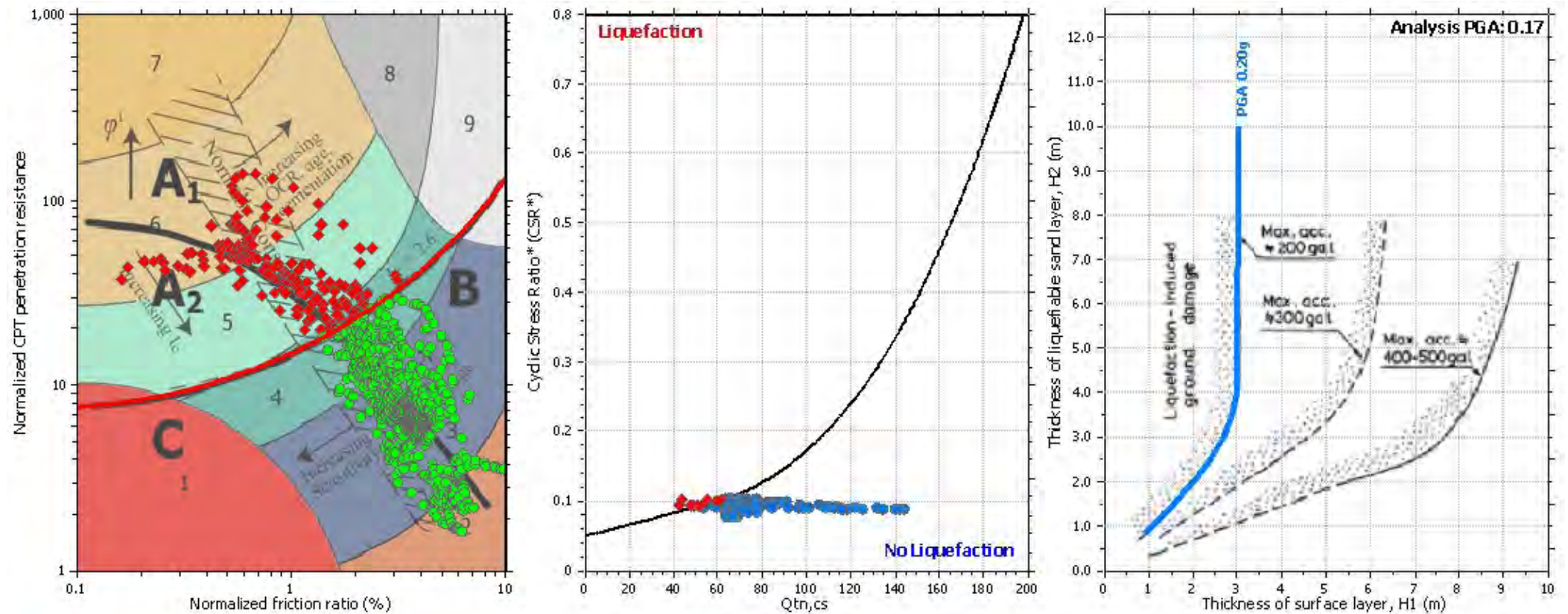
Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Light green	Unlike to liquefy
Dark green	Almost certain it will not liquefy

LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk



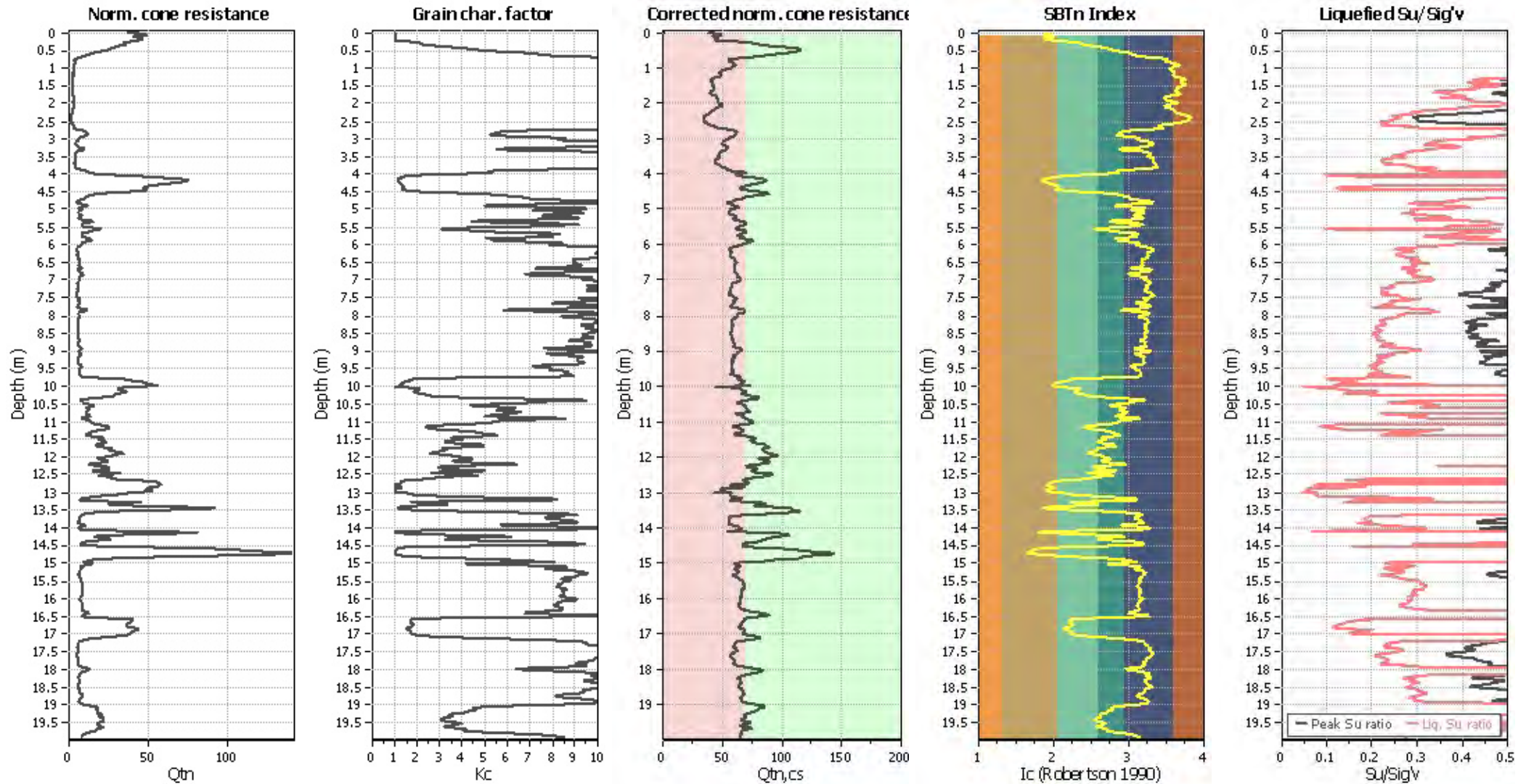
## Liquefaction analysis summary plo



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	1.08	0.00	8.00	0.02	0.00
4.02	1.09	0.00	7.99	0.02	0.00	4.04	1.12	0.00	7.98	0.02	0.00
4.06	1.17	0.00	7.97	0.02	0.00	4.08	1.26	0.00	7.96	0.02	0.00
4.10	1.33	0.00	7.95	0.02	0.00	4.12	1.41	0.00	7.94	0.02	0.00
4.14	1.44	0.00	7.93	0.02	0.00	4.16	1.46	0.00	7.92	0.02	0.00
4.18	1.49	0.00	7.91	0.02	0.00	4.20	1.48	0.00	7.90	0.02	0.00
4.22	1.46	0.00	7.89	0.02	0.00	4.24	1.41	0.00	7.88	0.02	0.00
4.26	1.36	0.00	7.87	0.02	0.00	4.28	1.30	0.00	7.86	0.02	0.00
4.30	1.24	0.00	7.85	0.02	0.00	4.32	1.20	0.00	7.84	0.02	0.00
4.34	1.17	0.00	7.83	0.02	0.00	4.36	1.15	0.00	7.82	0.02	0.00
4.38	1.12	0.00	7.81	0.02	0.00	4.40	1.11	0.00	7.80	0.02	0.00
4.42	1.11	0.00	7.79	0.02	0.00	4.44	1.13	0.00	7.78	0.02	0.00
4.46	1.18	0.00	7.77	0.02	0.00	4.48	1.24	0.00	7.76	0.02	0.00
4.50	1.32	0.00	7.75	0.02	0.00	4.52	1.42	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	1.03	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	0.98	0.02	5.12	0.02	0.00
9.78	0.98	0.02	5.11	0.02	0.00	9.80	1.01	0.00	5.10	0.02	0.00
9.82	1.03	0.00	5.09	0.02	0.00	9.84	1.05	0.00	5.08	0.02	0.00
9.86	1.05	0.00	5.07	0.02	0.00	9.88	1.04	0.00	5.06	0.02	0.00
9.90	1.03	0.00	5.05	0.02	0.00	9.92	1.02	0.00	5.04	0.02	0.00
9.94	1.05	0.00	5.03	0.02	0.00	9.96	1.10	0.00	5.02	0.02	0.00
9.98	1.13	0.00	5.01	0.02	0.00	10.00	1.04	0.00	5.00	0.02	0.00
10.02	0.84	0.16	4.99	0.02	0.02	10.04	0.92	0.08	4.98	0.02	0.01
10.06	0.99	0.01	4.97	0.02	0.00	10.08	1.02	0.00	4.96	0.02	0.00
10.10	1.03	0.00	4.95	0.02	0.00	10.12	1.04	0.00	4.94	0.02	0.00
10.14	1.06	0.00	4.93	0.02	0.00	10.16	1.08	0.00	4.92	0.02	0.00
10.18	1.07	0.00	4.91	0.02	0.00	10.20	1.05	0.00	4.90	0.02	0.00
10.22	1.04	0.00	4.89	0.02	0.00	10.24	1.07	0.00	4.88	0.02	0.00
10.26	1.14	0.00	4.87	0.02	0.00	10.28	1.20	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	2.00	0.00	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	2.00	0.00	4.67	0.02	0.00	10.68	2.00	0.00	4.66	0.02	0.00
10.70	2.00	0.00	4.65	0.02	0.00	10.72	2.00	0.00	4.64	0.02	0.00
10.74	2.00	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	2.00	0.00	4.50	0.02	0.00
11.02	2.00	0.00	4.49	0.02	0.00	11.04	2.00	0.00	4.48	0.02	0.00
11.06	2.00	0.00	4.47	0.02	0.00	11.08	2.00	0.00	4.46	0.02	0.00
11.10	1.04	0.00	4.45	0.02	0.00	11.12	0.99	0.01	4.44	0.02	0.00
11.14	0.98	0.02	4.43	0.02	0.00	11.16	1.00	0.00	4.42	0.02	0.00
11.18	1.02	0.00	4.41	0.02	0.00	11.20	1.06	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.18	0.00	4.23	0.02	0.00	11.56	1.21	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	1.38	0.00	4.12	0.02	0.00
11.78	1.35	0.00	4.11	0.02	0.00	11.80	1.36	0.00	4.10	0.02	0.00
11.82	1.37	0.00	4.09	0.02	0.00	11.84	1.40	0.00	4.08	0.02	0.00
11.86	1.40	0.00	4.07	0.02	0.00	11.88	1.45	0.00	4.06	0.02	0.00
11.90	1.46	0.00	4.05	0.02	0.00	11.92	1.54	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	1.17	0.00	3.87	0.02	0.00	12.28	1.25	0.00	3.86	0.02	0.00
12.30	1.30	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	1.28	0.00	3.79	0.02	0.00	12.44	1.40	0.00	3.78	0.02	0.00
12.46	1.52	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	1.37	0.00	3.72	0.02	0.00
12.58	1.28	0.00	3.71	0.02	0.00	12.60	1.21	0.00	3.70	0.02	0.00
12.62	1.15	0.00	3.69	0.02	0.00	12.64	1.12	0.00	3.68	0.02	0.00
12.66	1.12	0.00	3.67	0.02	0.00	12.68	1.16	0.00	3.66	0.02	0.00
12.70	1.19	0.00	3.65	0.02	0.00	12.72	1.20	0.00	3.64	0.02	0.00
12.74	1.20	0.00	3.63	0.02	0.00	12.76	1.19	0.00	3.62	0.02	0.00
12.78	1.02	0.00	3.61	0.02	0.00	12.80	1.02	0.00	3.60	0.02	0.00
12.82	1.01	0.00	3.59	0.02	0.00	12.84	1.15	0.00	3.58	0.02	0.00
12.86	1.14	0.00	3.57	0.02	0.00	12.88	1.11	0.00	3.56	0.02	0.00
12.90	0.96	0.04	3.55	0.02	0.00	12.92	0.97	0.03	3.54	0.02	0.00
12.94	0.98	0.02	3.53	0.02	0.00	12.96	0.98	0.02	3.52	0.02	0.00
12.98	0.95	0.05	3.51	0.02	0.00	13.00	0.90	0.10	3.50	0.02	0.01
13.02	1.03	0.00	3.49	0.02	0.00	13.04	1.02	0.00	3.48	0.02	0.00
13.06	1.02	0.00	3.47	0.02	0.00	13.08	1.03	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	1.14	0.00	3.38	0.02	0.00
13.26	1.25	0.00	3.37	0.02	0.00	13.28	1.35	0.00	3.36	0.02	0.00
13.30	1.43	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	1.43	0.00	3.33	0.02	0.00	13.36	1.32	0.00	3.32	0.02	0.00
13.38	1.32	0.00	3.31	0.02	0.00	13.40	1.47	0.00	3.30	0.02	0.00
13.42	1.78	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	2.00	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	2.00	0.00	3.04	0.02	0.00
13.94	2.00	0.00	3.03	0.02	0.00	13.96	2.00	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	1.10	0.00	2.97	0.02	0.00	14.08	1.04	0.00	2.96	0.02	0.00
14.10	1.27	0.00	2.95	0.02	0.00	14.12	1.67	0.00	2.94	0.02	0.00
14.14	1.82	0.00	2.93	0.02	0.00	14.16	1.87	0.00	2.92	0.02	0.00
14.18	1.96	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	1.53	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	1.22	0.00	2.74	0.02	0.00
14.54	1.27	0.00	2.73	0.02	0.00	14.56	1.53	0.00	2.72	0.02	0.00
14.58	1.92	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	1.34	0.00	1.73	0.02	0.00	16.56	1.30	0.00	1.72	0.02	0.00
16.58	1.31	0.00	1.71	0.02	0.00	16.60	1.31	0.00	1.70	0.02	0.00
16.62	1.31	0.00	1.69	0.02	0.00	16.64	1.30	0.00	1.68	0.02	0.00
16.66	1.29	0.00	1.67	0.02	0.00	16.68	1.28	0.00	1.66	0.02	0.00
16.70	1.28	0.00	1.65	0.02	0.00	16.72	1.28	0.00	1.64	0.02	0.00
16.74	1.27	0.00	1.63	0.02	0.00	16.76	1.26	0.00	1.62	0.02	0.00
16.78	1.25	0.00	1.61	0.02	0.00	16.80	1.24	0.00	1.60	0.02	0.00
16.82	1.25	0.00	1.59	0.02	0.00	16.84	1.28	0.00	1.58	0.02	0.00
16.86	1.31	0.00	1.57	0.02	0.00	16.88	1.32	0.00	1.56	0.02	0.00
16.90	1.32	0.00	1.55	0.02	0.00	16.92	1.32	0.00	1.54	0.02	0.00
16.94	1.31	0.00	1.53	0.02	0.00	16.96	1.30	0.00	1.52	0.02	0.00
16.98	1.31	0.00	1.51	0.02	0.00	17.00	1.32	0.00	1.50	0.02	0.00
17.02	1.36	0.00	1.49	0.02	0.00	17.04	1.42	0.00	1.48	0.02	0.00
17.06	1.50	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	1.43	0.00	0.31	0.02	0.00	19.40	1.40	0.00	0.30	0.02	0.00
19.42	1.37	0.00	0.29	0.02	0.00	19.44	1.37	0.00	0.28	0.02	0.00
19.46	1.40	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	1.35	0.00	0.21	0.02	0.00	19.60	1.40	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 0.05**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

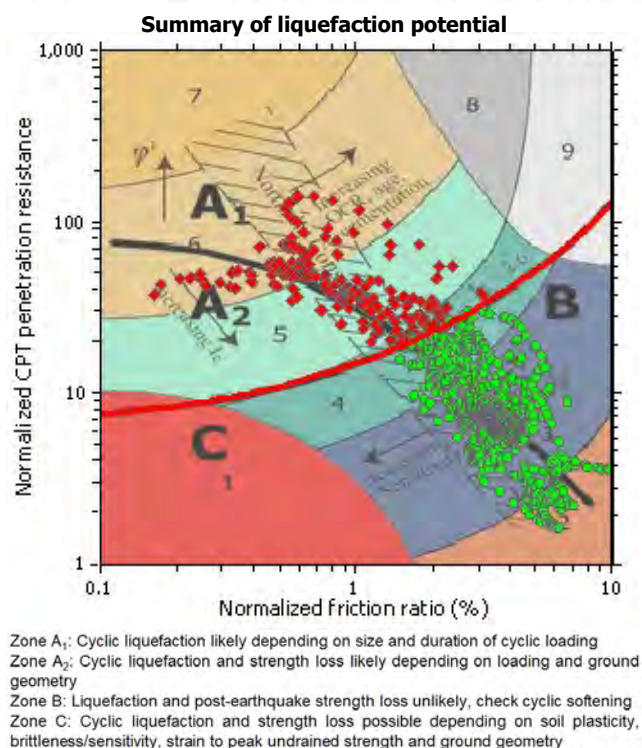
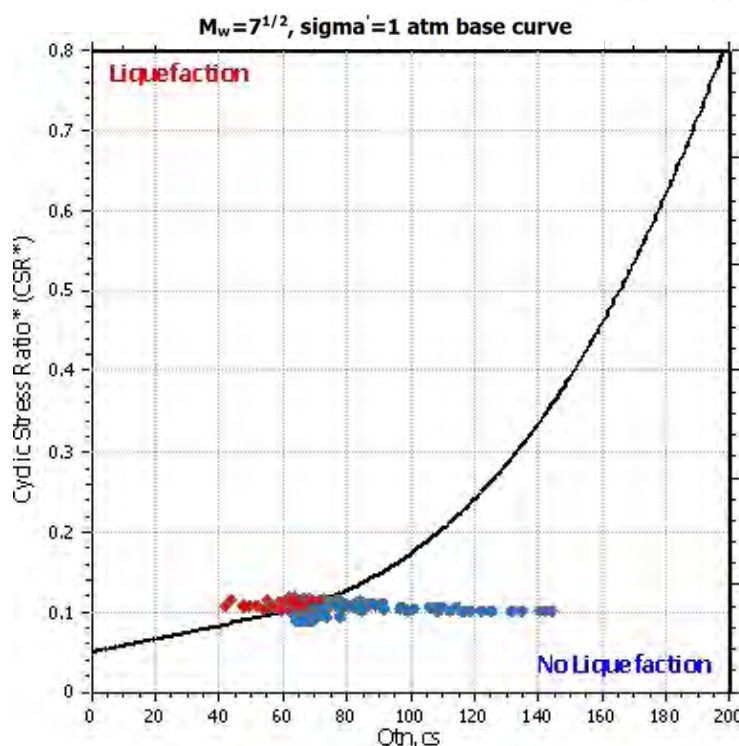
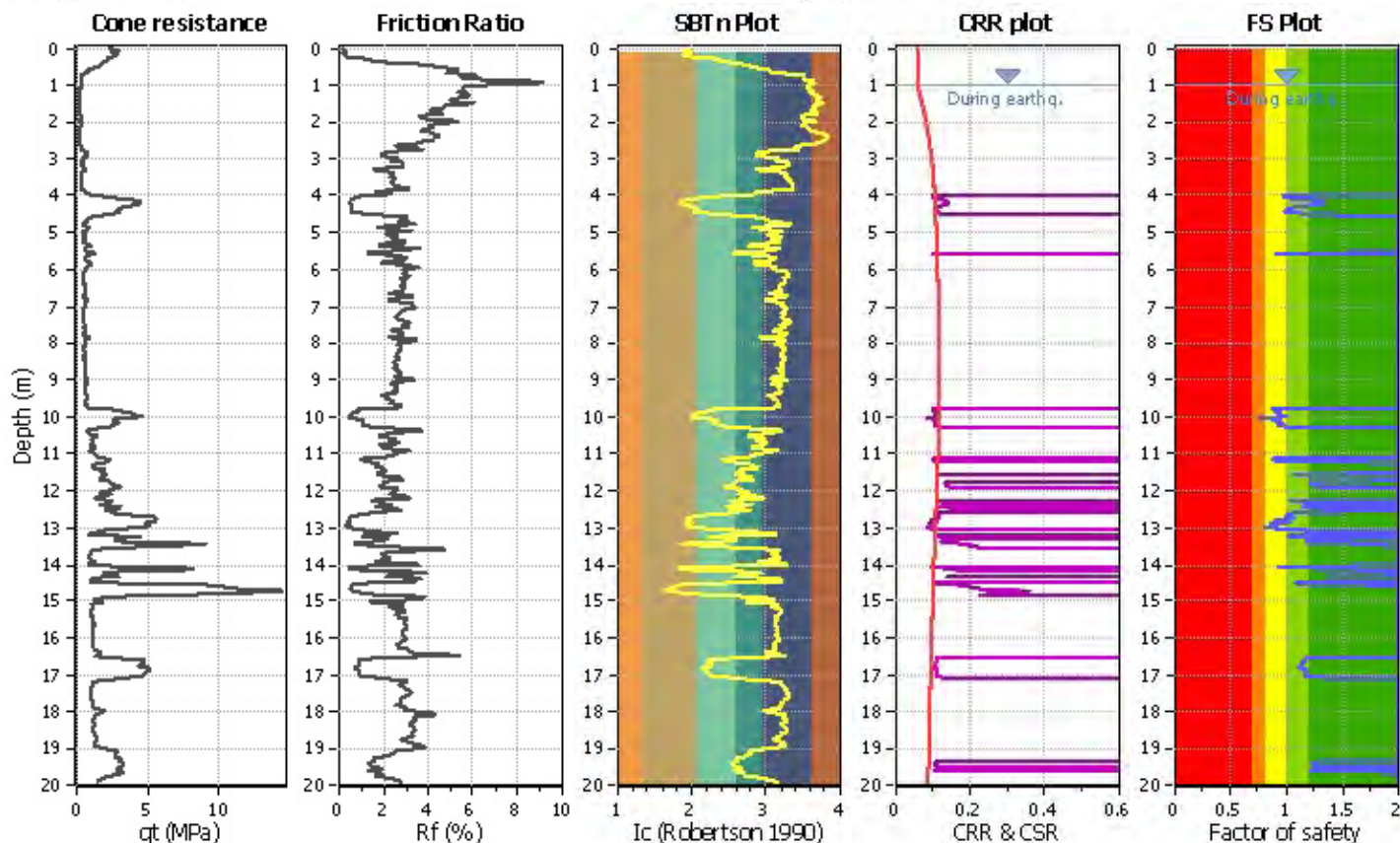
**Project title :**

**Location :**

**CPT file : CPTU2**

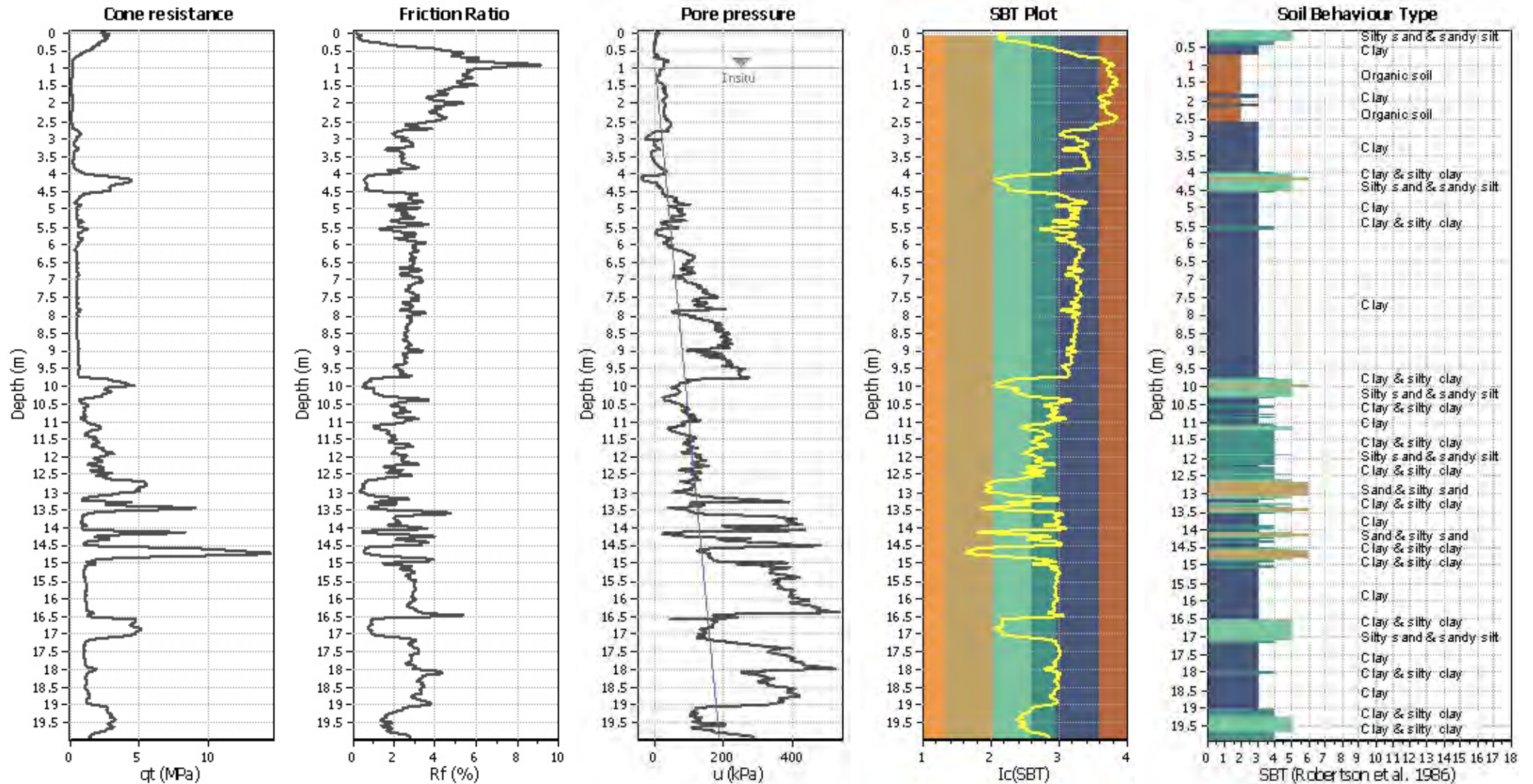
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	5.75	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



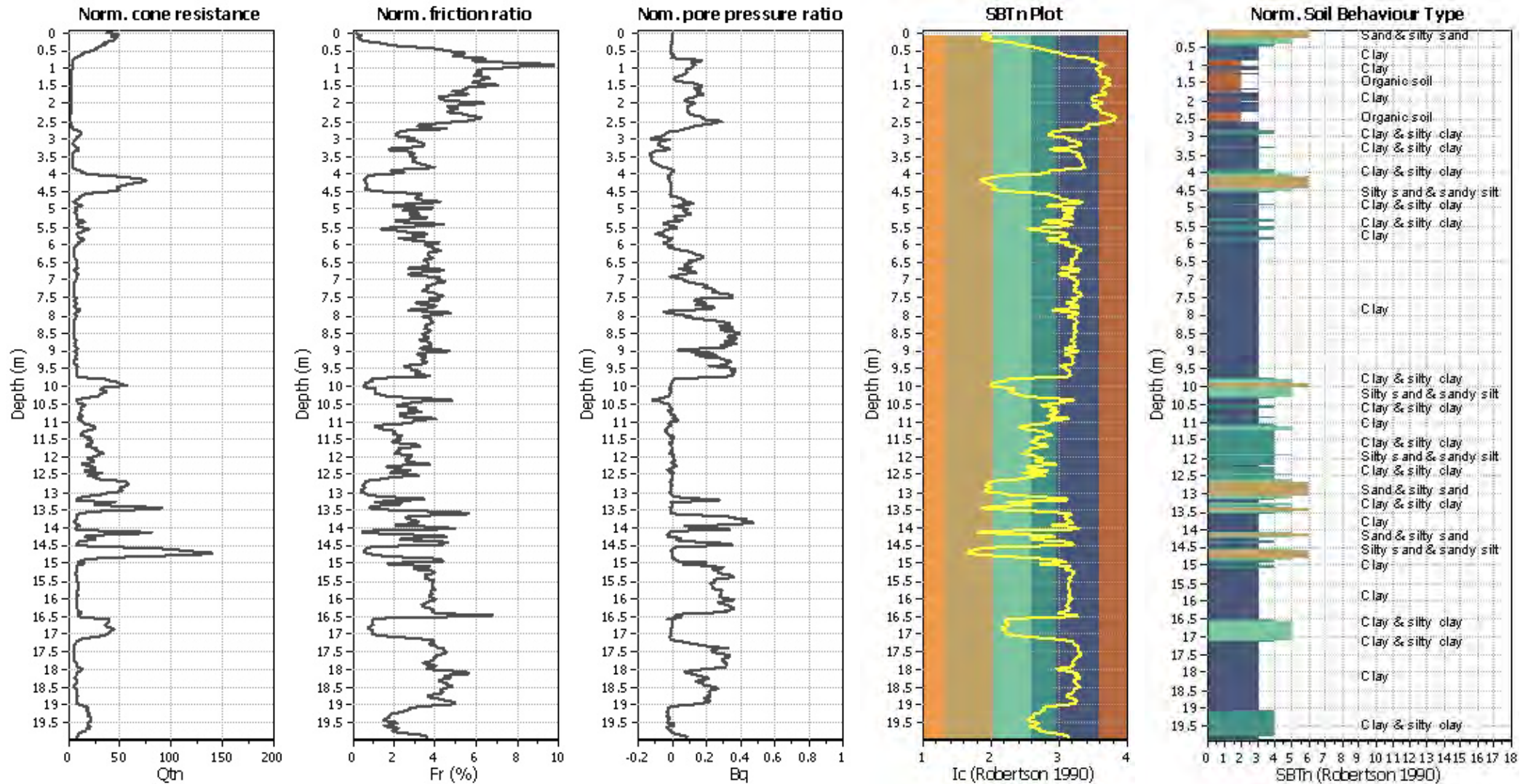
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

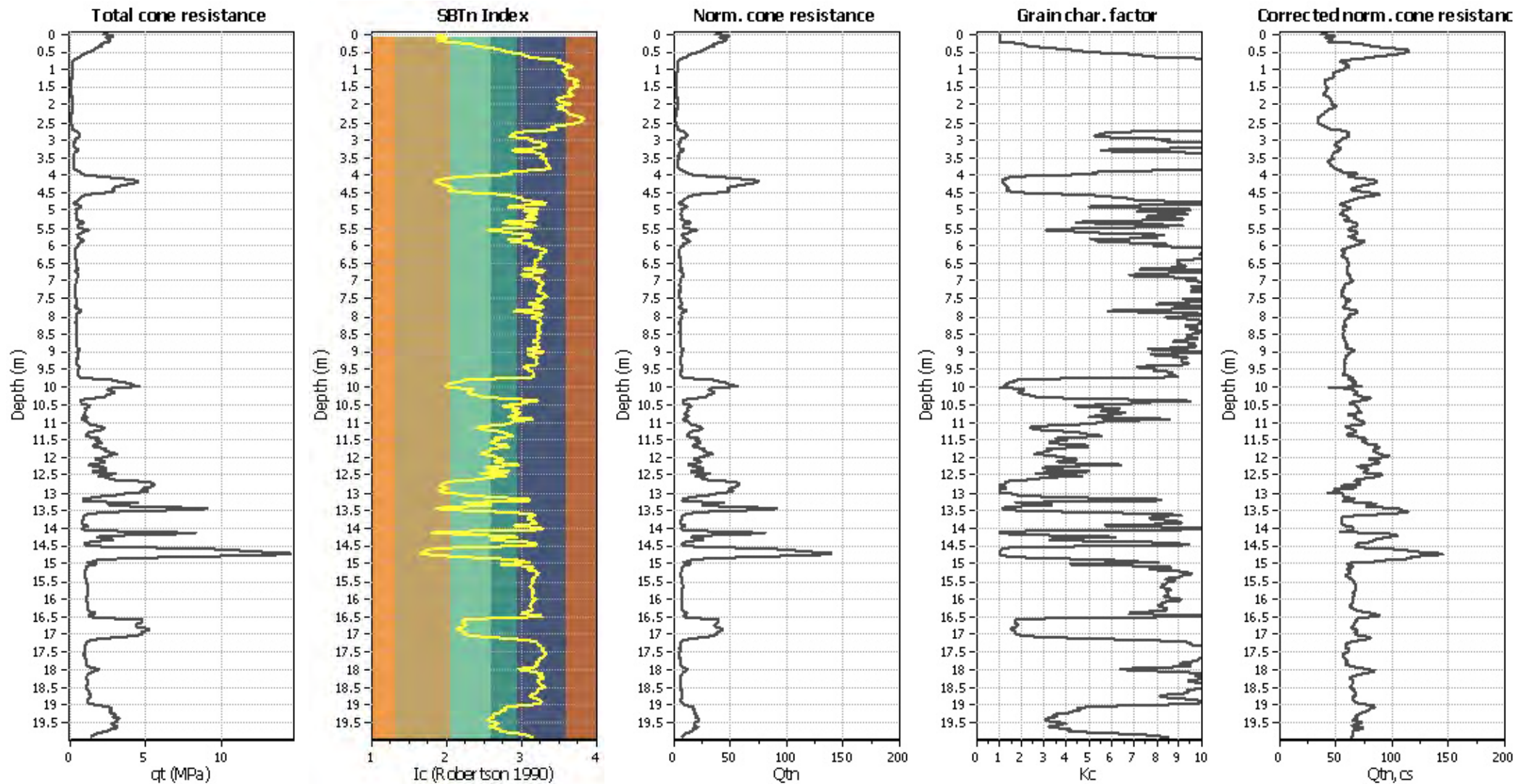
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



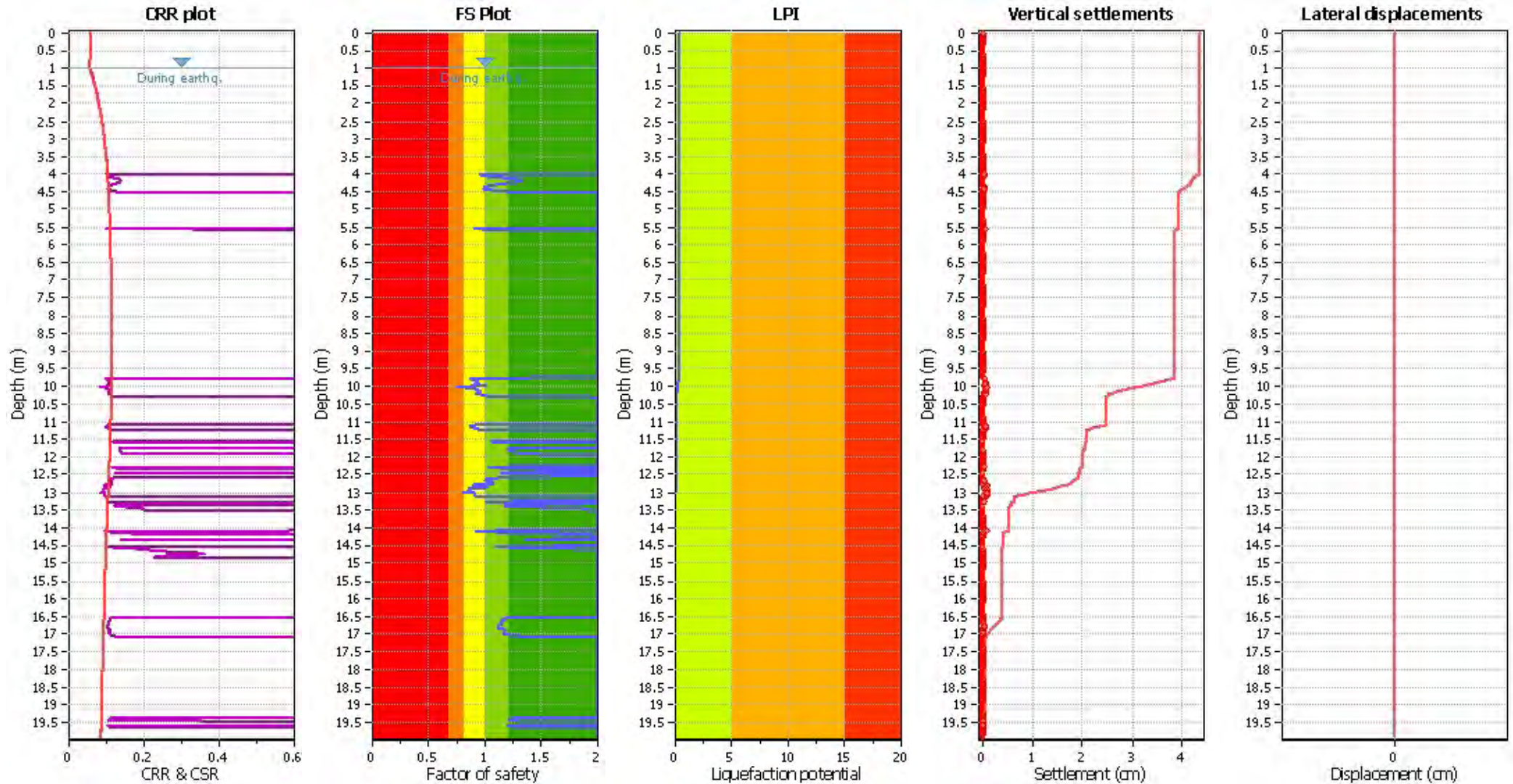
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{cs}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

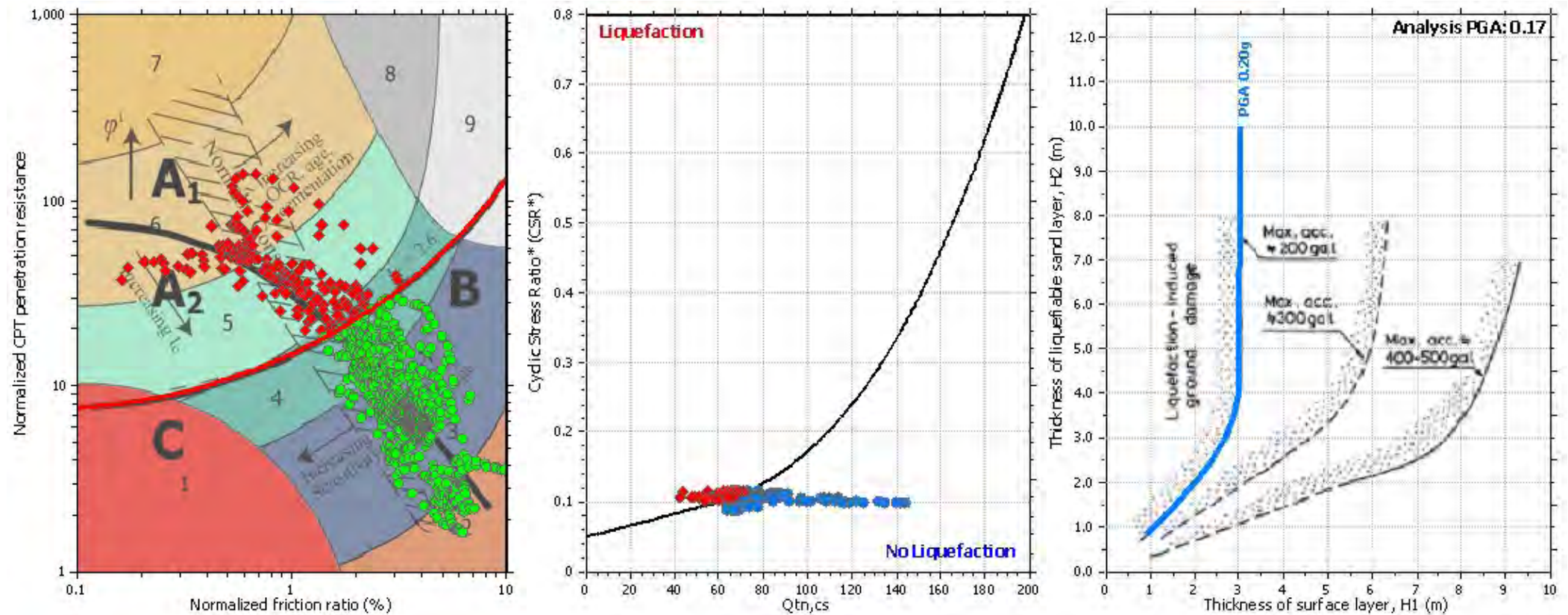
Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

### LPI color scheme

Red	Very high risk
Orange	High risk
Green	Low risk



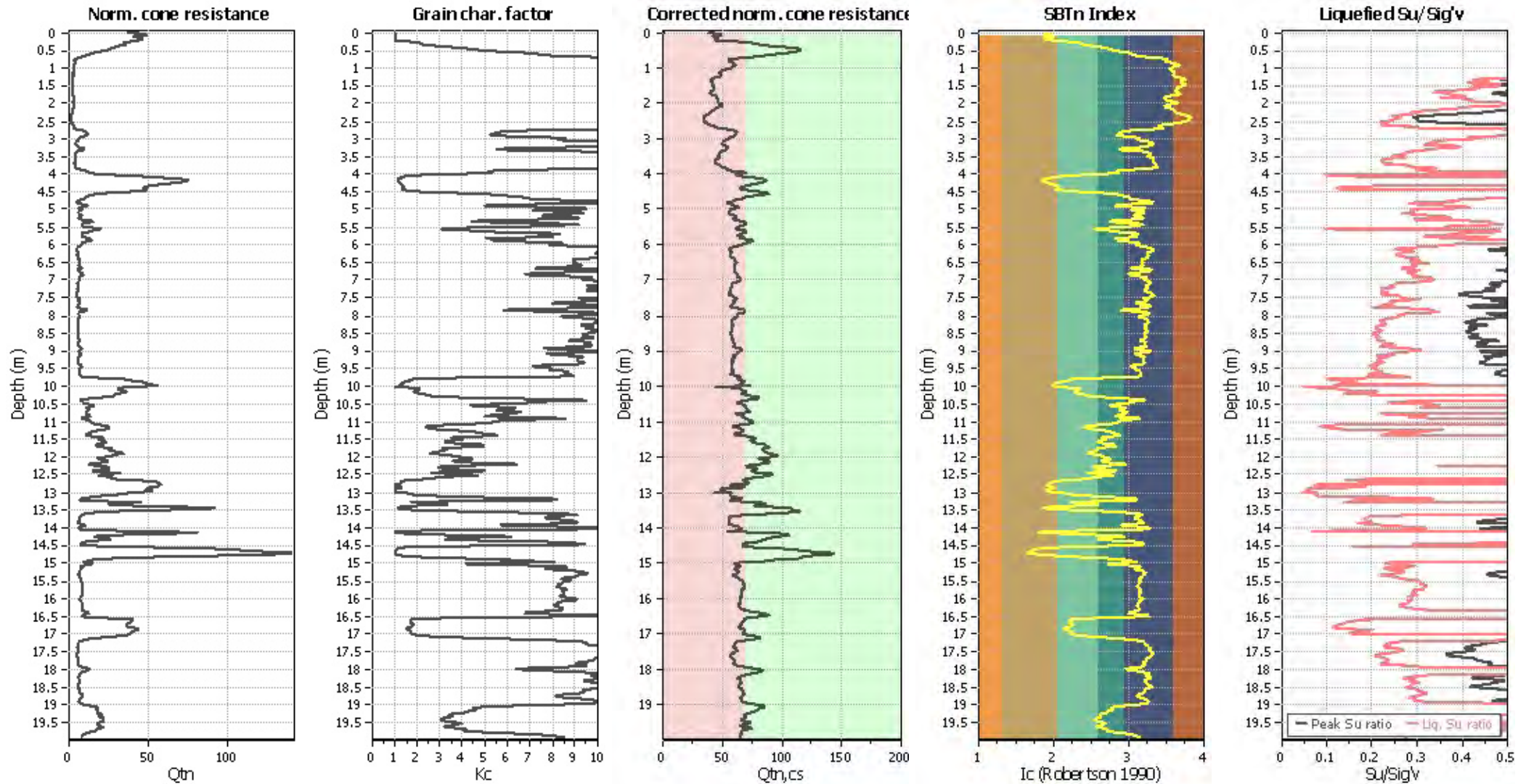
## Liquefaction analysis summary plo



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	0.97	0.03	8.00	0.02	0.01
4.02	0.97	0.03	7.99	0.02	0.00	4.04	1.00	0.00	7.98	0.02	0.00
4.06	1.05	0.00	7.97	0.02	0.00	4.08	1.12	0.00	7.96	0.02	0.00
4.10	1.19	0.00	7.95	0.02	0.00	4.12	1.26	0.00	7.94	0.02	0.00
4.14	1.29	0.00	7.93	0.02	0.00	4.16	1.31	0.00	7.92	0.02	0.00
4.18	1.33	0.00	7.91	0.02	0.00	4.20	1.32	0.00	7.90	0.02	0.00
4.22	1.30	0.00	7.89	0.02	0.00	4.24	1.26	0.00	7.88	0.02	0.00
4.26	1.21	0.00	7.87	0.02	0.00	4.28	1.16	0.00	7.86	0.02	0.00
4.30	1.11	0.00	7.85	0.02	0.00	4.32	1.07	0.00	7.84	0.02	0.00
4.34	1.04	0.00	7.83	0.02	0.00	4.36	1.02	0.00	7.82	0.02	0.00
4.38	1.00	0.00	7.81	0.02	0.00	4.40	0.99	0.01	7.80	0.02	0.00
4.42	0.99	0.01	7.79	0.02	0.00	4.44	1.01	0.00	7.78	0.02	0.00
4.46	1.05	0.00	7.77	0.02	0.00	4.48	1.11	0.00	7.76	0.02	0.00
4.50	1.18	0.00	7.75	0.02	0.00	4.52	1.27	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	0.92	0.08	7.22	0.02	0.01
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	0.88	0.12	5.12	0.02	0.01
9.78	0.88	0.12	5.11	0.02	0.01	9.80	0.90	0.10	5.10	0.02	0.01
9.82	0.92	0.08	5.09	0.02	0.01	9.84	0.94	0.06	5.08	0.02	0.01
9.86	0.94	0.06	5.07	0.02	0.01	9.88	0.93	0.07	5.06	0.02	0.01
9.90	0.92	0.08	5.05	0.02	0.01	9.92	0.91	0.09	5.04	0.02	0.01
9.94	0.94	0.06	5.03	0.02	0.01	9.96	0.98	0.02	5.02	0.02	0.00
9.98	1.01	0.00	5.01	0.02	0.00	10.00	0.93	0.07	5.00	0.02	0.01
10.02	0.75	0.25	4.99	0.02	0.03	10.04	0.83	0.17	4.98	0.02	0.02
10.06	0.88	0.12	4.97	0.02	0.01	10.08	0.91	0.09	4.96	0.02	0.01
10.10	0.92	0.08	4.95	0.02	0.01	10.12	0.93	0.07	4.94	0.02	0.01
10.14	0.95	0.05	4.93	0.02	0.01	10.16	0.96	0.04	4.92	0.02	0.00
10.18	0.95	0.05	4.91	0.02	0.00	10.20	0.93	0.07	4.90	0.02	0.01
10.22	0.93	0.07	4.89	0.02	0.01	10.24	0.96	0.04	4.88	0.02	0.00
10.26	1.01	0.00	4.87	0.02	0.00	10.28	1.07	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	2.00	0.00	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	2.00	0.00	4.67	0.02	0.00	10.68	2.00	0.00	4.66	0.02	0.00
10.70	2.00	0.00	4.65	0.02	0.00	10.72	2.00	0.00	4.64	0.02	0.00
10.74	2.00	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	2.00	0.00	4.50	0.02	0.00
11.02	2.00	0.00	4.49	0.02	0.00	11.04	2.00	0.00	4.48	0.02	0.00
11.06	2.00	0.00	4.47	0.02	0.00	11.08	2.00	0.00	4.46	0.02	0.00
11.10	0.93	0.07	4.45	0.02	0.01	11.12	0.89	0.11	4.44	0.02	0.01
11.14	0.88	0.12	4.43	0.02	0.01	11.16	0.89	0.11	4.42	0.02	0.01
11.18	0.91	0.09	4.41	0.02	0.01	11.20	0.95	0.05	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	1.05	0.00	4.23	0.02	0.00	11.56	1.08	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	1.23	0.00	4.12	0.02	0.00
11.78	1.20	0.00	4.11	0.02	0.00	11.80	1.21	0.00	4.10	0.02	0.00
11.82	1.22	0.00	4.09	0.02	0.00	11.84	1.25	0.00	4.08	0.02	0.00
11.86	1.25	0.00	4.07	0.02	0.00	11.88	1.29	0.00	4.06	0.02	0.00
11.90	1.30	0.00	4.05	0.02	0.00	11.92	1.37	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	1.04	0.00	3.87	0.02	0.00	12.28	1.11	0.00	3.86	0.02	0.00
12.30	1.16	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	1.14	0.00	3.79	0.02	0.00	12.44	1.25	0.00	3.78	0.02	0.00
12.46	1.36	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	1.22	0.00	3.72	0.02	0.00
12.58	1.14	0.00	3.71	0.02	0.00	12.60	1.08	0.00	3.70	0.02	0.00
12.62	1.03	0.00	3.69	0.02	0.00	12.64	1.00	0.00	3.68	0.02	0.00
12.66	1.00	0.00	3.67	0.02	0.00	12.68	1.03	0.00	3.66	0.02	0.00
12.70	1.06	0.00	3.65	0.02	0.00	12.72	1.07	0.00	3.64	0.02	0.00
12.74	1.07	0.00	3.63	0.02	0.00	12.76	1.06	0.00	3.62	0.02	0.00
12.78	0.91	0.09	3.61	0.02	0.01	12.80	0.91	0.09	3.60	0.02	0.01
12.82	0.90	0.10	3.59	0.02	0.01	12.84	1.03	0.00	3.58	0.02	0.00
12.86	1.01	0.00	3.57	0.02	0.00	12.88	0.99	0.01	3.56	0.02	0.00
12.90	0.86	0.14	3.55	0.02	0.01	12.92	0.87	0.13	3.54	0.02	0.01
12.94	0.88	0.12	3.53	0.02	0.01	12.96	0.87	0.13	3.52	0.02	0.01
12.98	0.85	0.15	3.51	0.02	0.01	13.00	0.80	0.20	3.50	0.02	0.01
13.02	0.92	0.08	3.49	0.02	0.01	13.04	0.91	0.09	3.48	0.02	0.01
13.06	0.91	0.09	3.47	0.02	0.01	13.08	0.92	0.08	3.46	0.02	0.01
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	1.02	0.00	3.38	0.02	0.00
13.26	1.11	0.00	3.37	0.02	0.00	13.28	1.20	0.00	3.36	0.02	0.00
13.30	1.28	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	1.28	0.00	3.33	0.02	0.00	13.36	1.18	0.00	3.32	0.02	0.00
13.38	1.18	0.00	3.31	0.02	0.00	13.40	1.31	0.00	3.30	0.02	0.00
13.42	1.59	0.00	3.29	0.02	0.00	13.44	1.84	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	1.90	0.00	3.27	0.02	0.00	13.48	1.87	0.00	3.26	0.02	0.00
13.50	1.96	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	2.00	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	2.00	0.00	3.04	0.02	0.00
13.94	2.00	0.00	3.03	0.02	0.00	13.96	2.00	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	0.98	0.02	2.97	0.02	0.00	14.08	0.93	0.07	2.96	0.02	0.00
14.10	1.14	0.00	2.95	0.02	0.00	14.12	1.49	0.00	2.94	0.02	0.00
14.14	1.62	0.00	2.93	0.02	0.00	14.16	1.67	0.00	2.92	0.02	0.00
14.18	1.75	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	1.36	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	1.09	0.00	2.74	0.02	0.00
14.54	1.13	0.00	2.73	0.02	0.00	14.56	1.37	0.00	2.72	0.02	0.00
14.58	1.71	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	1.20	0.00	1.73	0.02	0.00	16.56	1.16	0.00	1.72	0.02	0.00
16.58	1.17	0.00	1.71	0.02	0.00	16.60	1.17	0.00	1.70	0.02	0.00
16.62	1.16	0.00	1.69	0.02	0.00	16.64	1.16	0.00	1.68	0.02	0.00
16.66	1.15	0.00	1.67	0.02	0.00	16.68	1.14	0.00	1.66	0.02	0.00
16.70	1.14	0.00	1.65	0.02	0.00	16.72	1.14	0.00	1.64	0.02	0.00
16.74	1.14	0.00	1.63	0.02	0.00	16.76	1.13	0.00	1.62	0.02	0.00
16.78	1.12	0.00	1.61	0.02	0.00	16.80	1.11	0.00	1.60	0.02	0.00
16.82	1.12	0.00	1.59	0.02	0.00	16.84	1.14	0.00	1.58	0.02	0.00
16.86	1.17	0.00	1.57	0.02	0.00	16.88	1.18	0.00	1.56	0.02	0.00
16.90	1.18	0.00	1.55	0.02	0.00	16.92	1.17	0.00	1.54	0.02	0.00
16.94	1.16	0.00	1.53	0.02	0.00	16.96	1.16	0.00	1.52	0.02	0.00
16.98	1.17	0.00	1.51	0.02	0.00	17.00	1.18	0.00	1.50	0.02	0.00
17.02	1.21	0.00	1.49	0.02	0.00	17.04	1.27	0.00	1.48	0.02	0.00
17.06	1.34	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	1.27	0.00	0.31	0.02	0.00	19.40	1.25	0.00	0.30	0.02	0.00
19.42	1.22	0.00	0.29	0.02	0.00	19.44	1.22	0.00	0.28	0.02	0.00
19.46	1.25	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	1.20	0.00	0.21	0.02	0.00	19.60	1.25	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 0.39**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

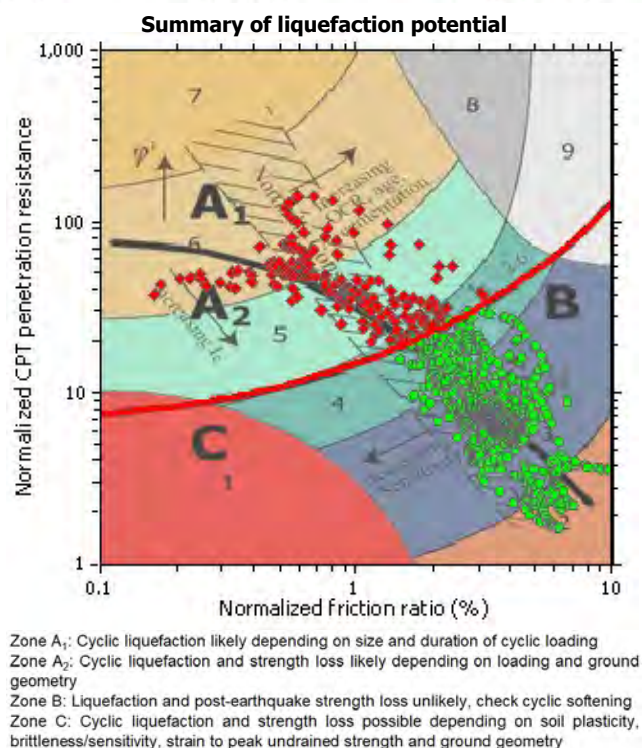
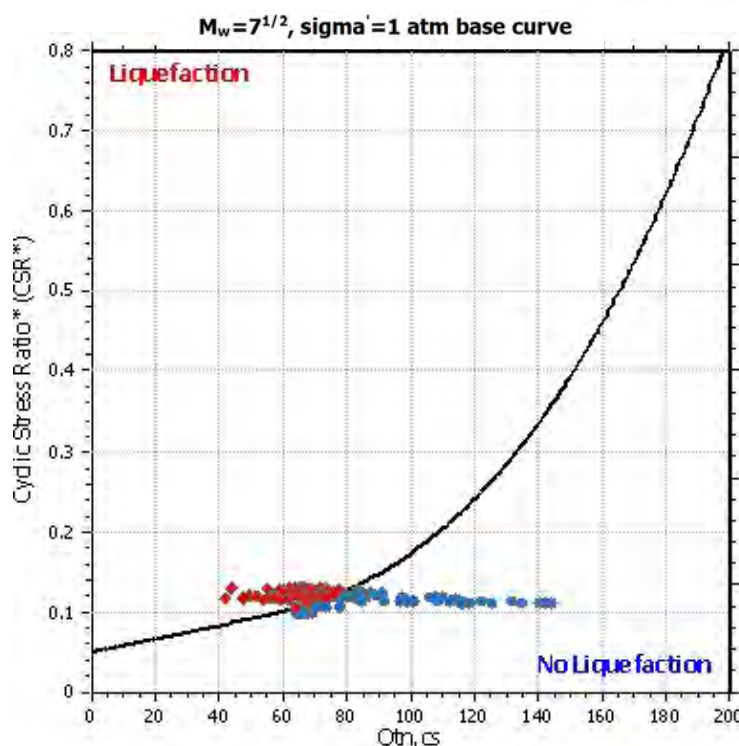
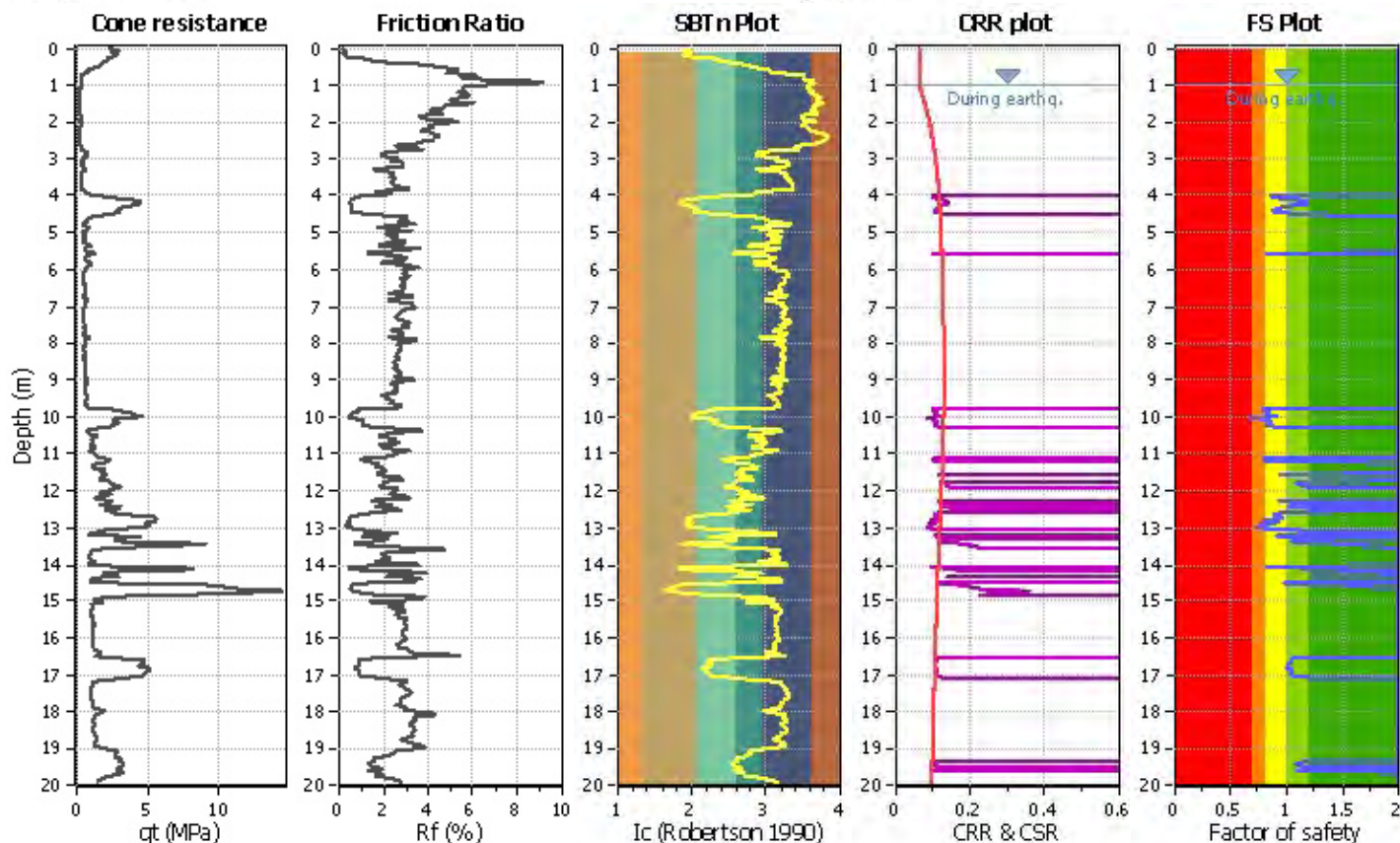
**Project title :**

**Location :**

**CPT file : CPTU2**

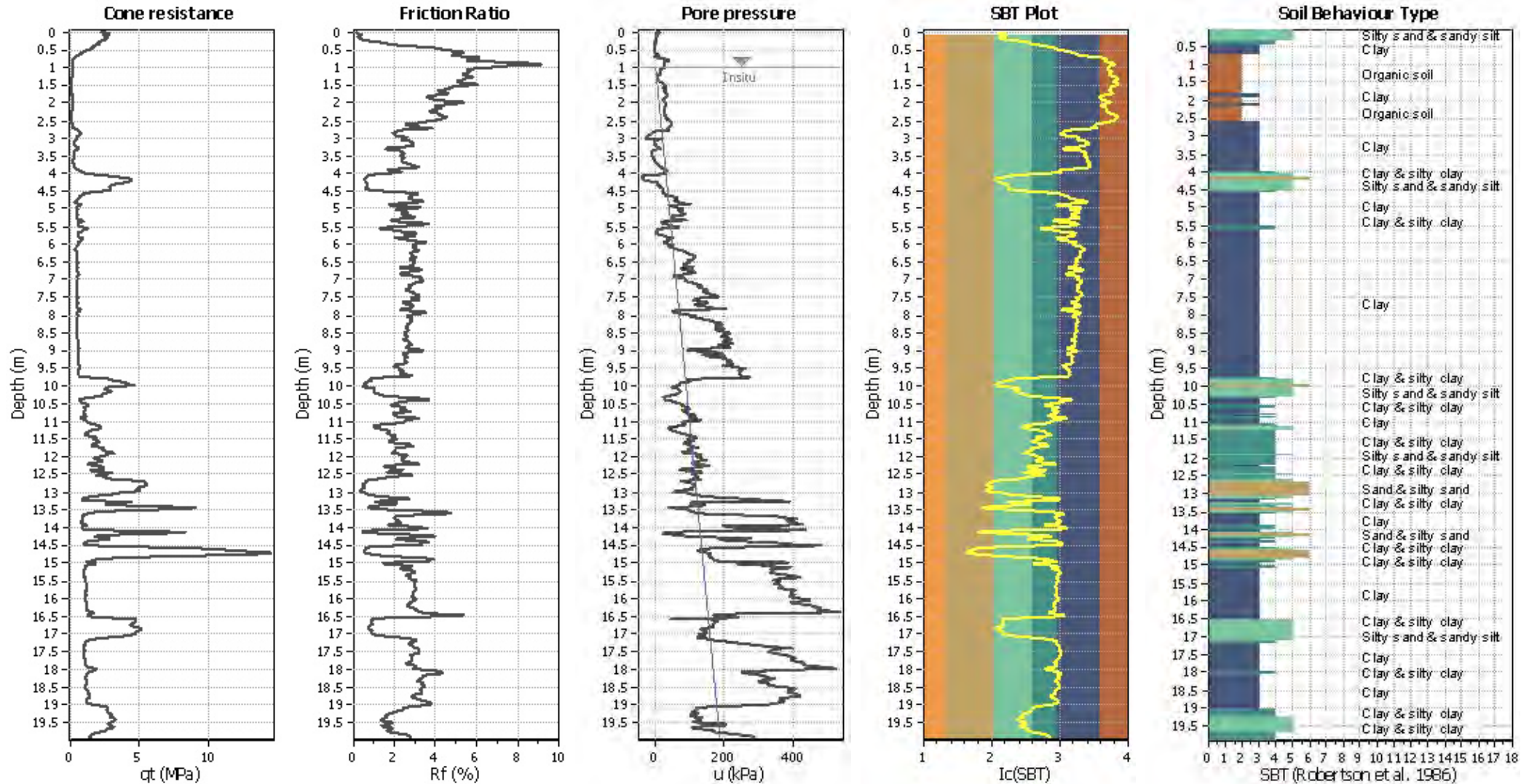
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	6.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



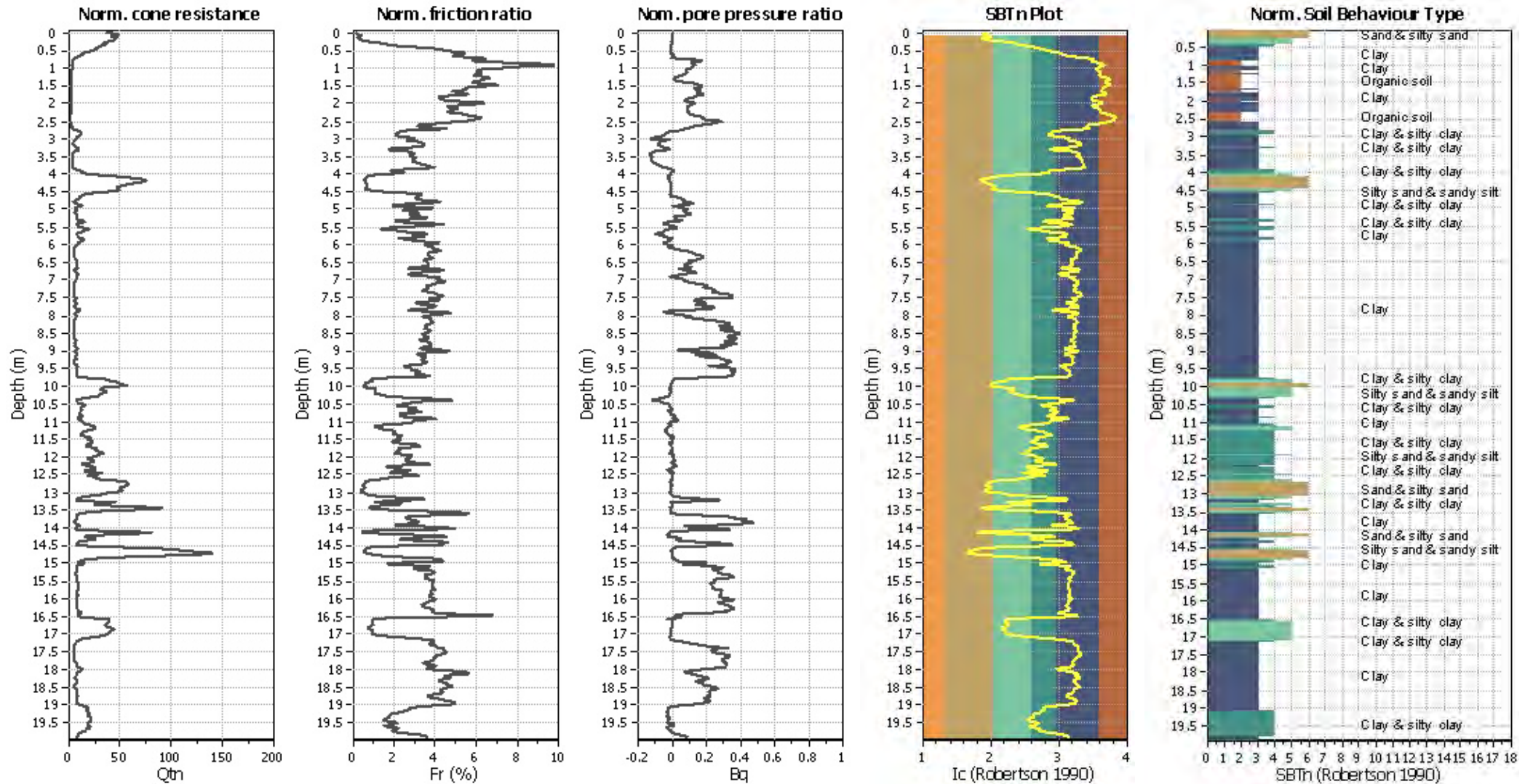
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz

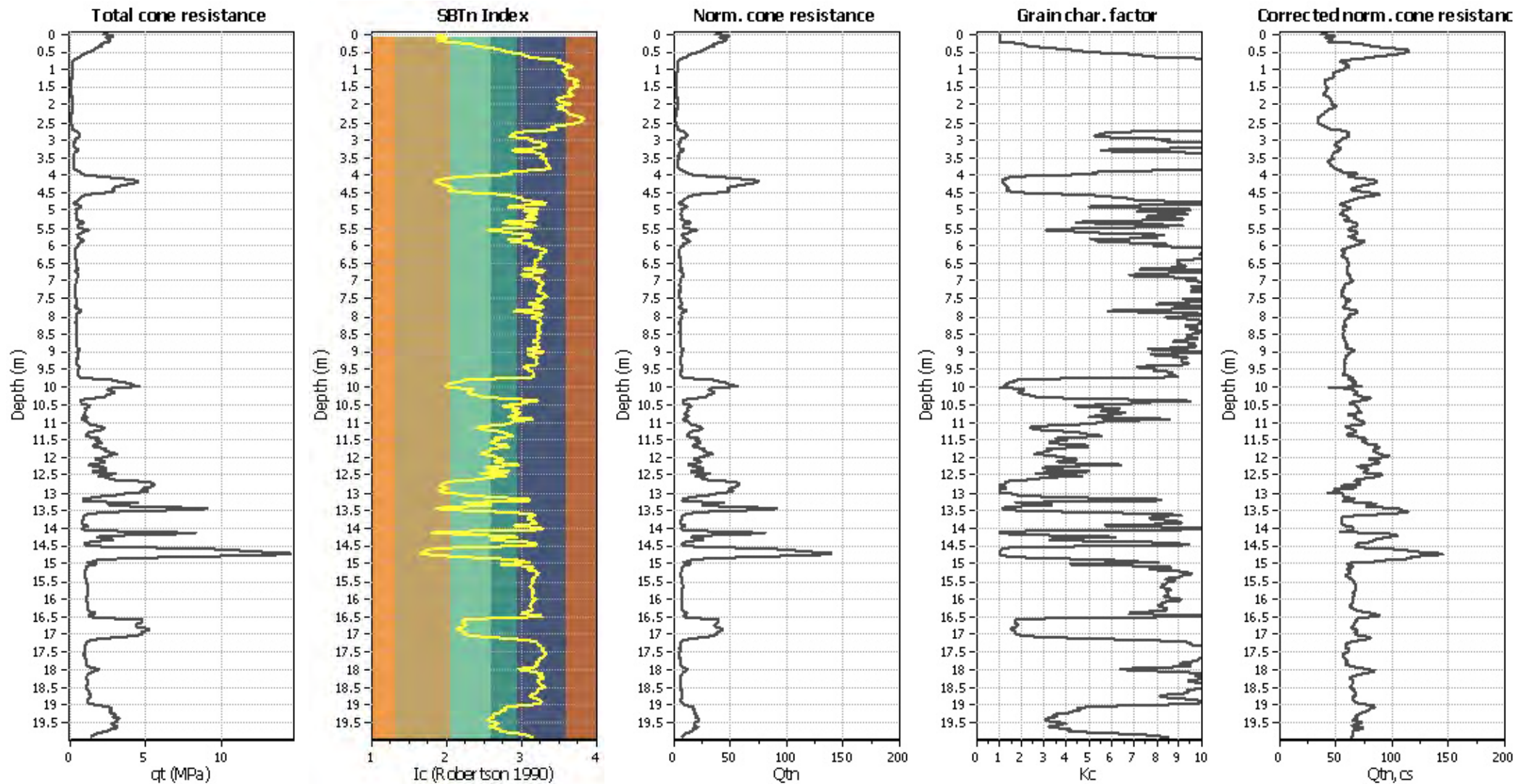


## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



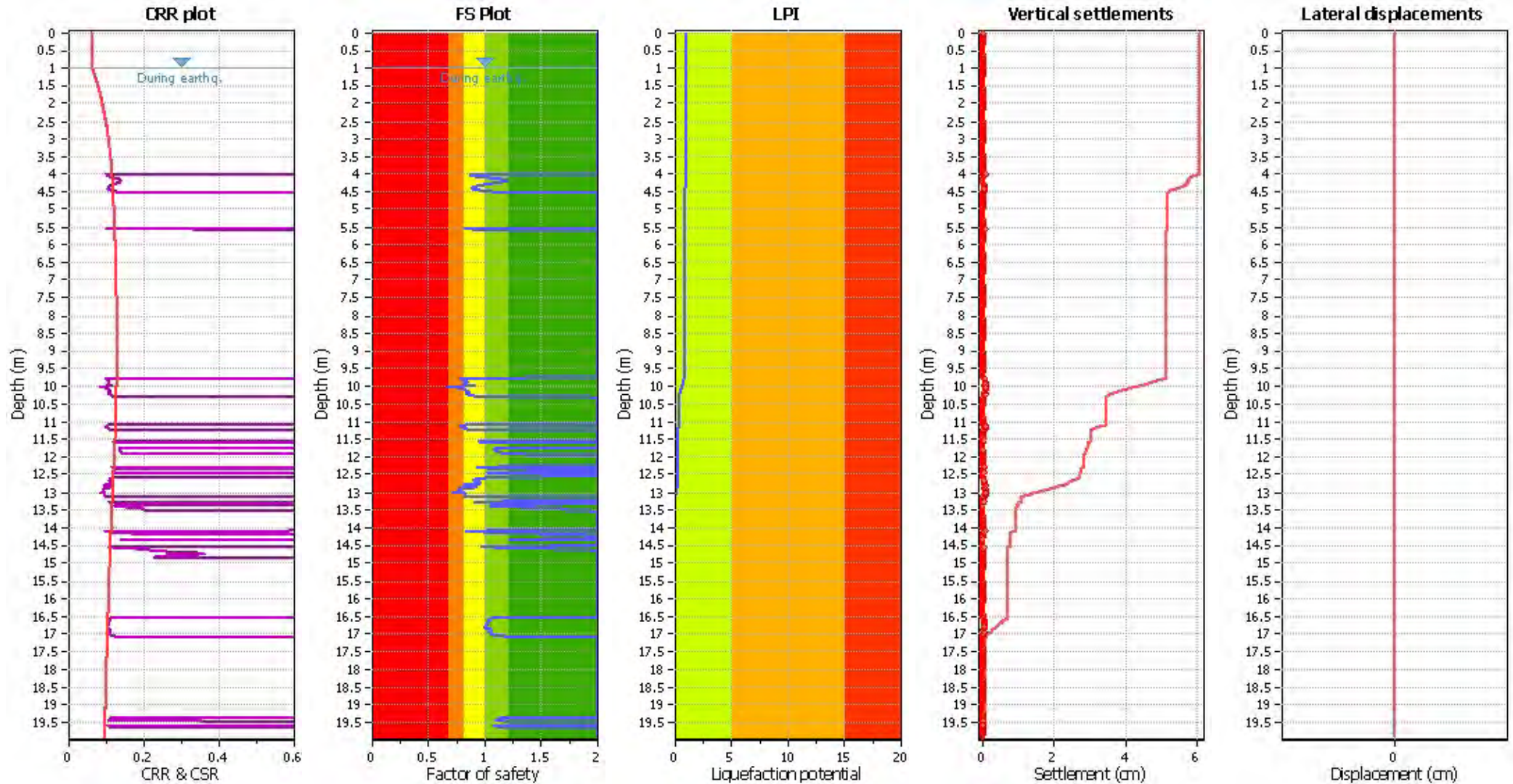
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

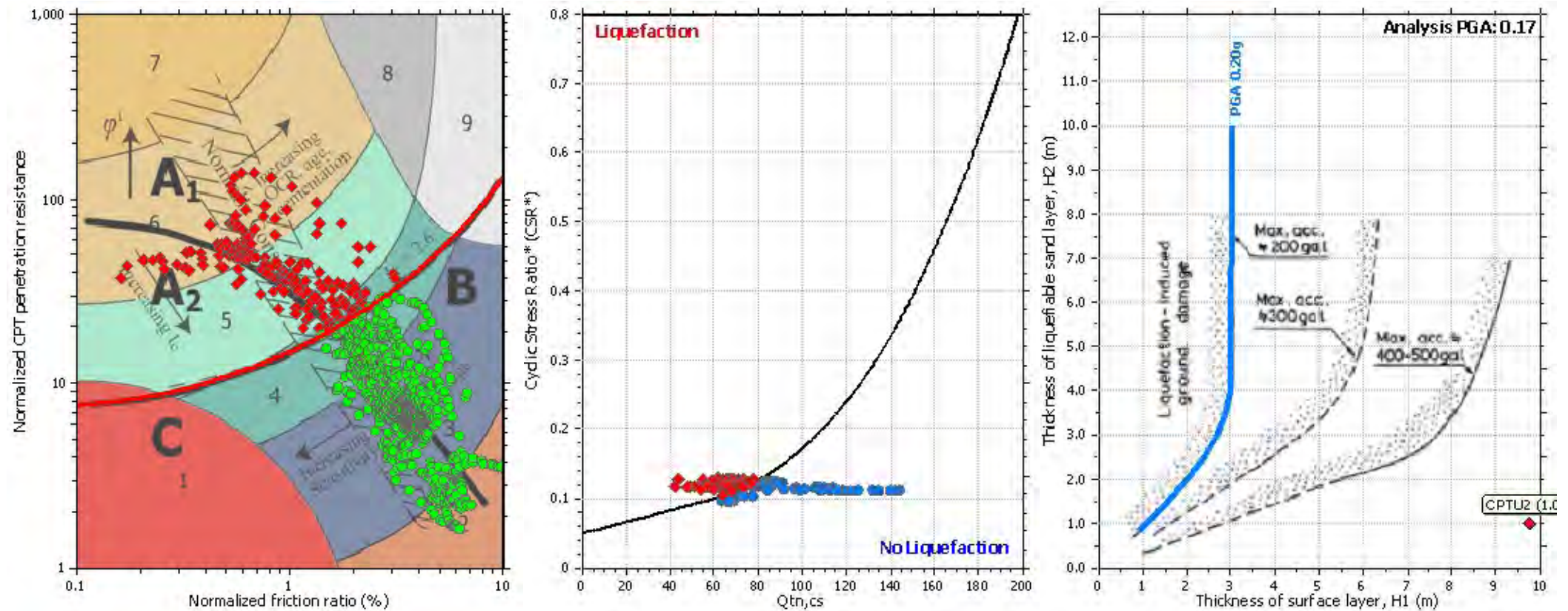
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



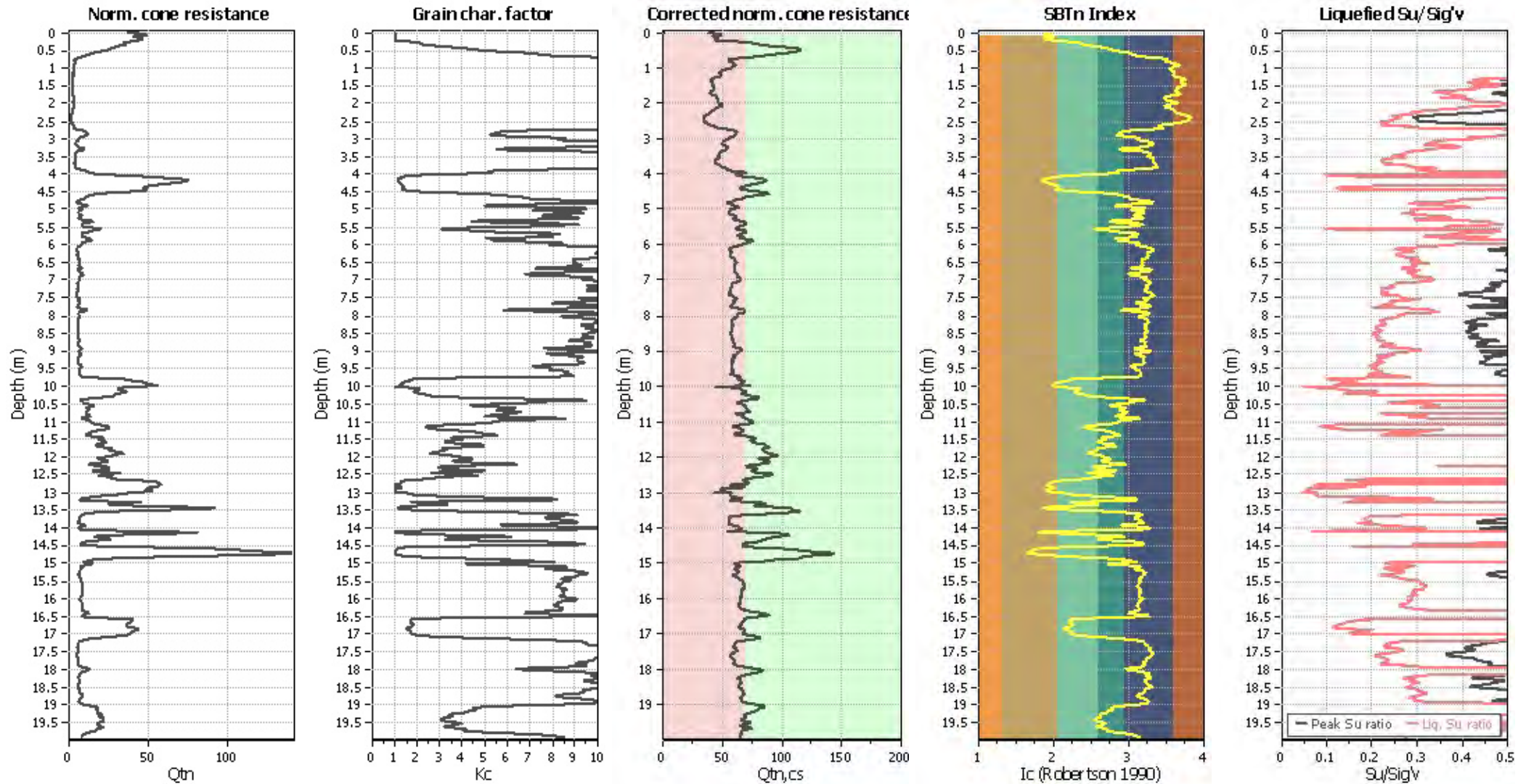
## Liquefaction analysis summary plo



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	0.87	0.13	8.00	0.02	0.02
4.02	0.87	0.13	7.99	0.02	0.02	4.04	0.90	0.10	7.98	0.02	0.02
4.06	0.94	0.06	7.97	0.02	0.01	4.08	1.01	0.00	7.96	0.02	0.00
4.10	1.06	0.00	7.95	0.02	0.00	4.12	1.13	0.00	7.94	0.02	0.00
4.14	1.15	0.00	7.93	0.02	0.00	4.16	1.17	0.00	7.92	0.02	0.00
4.18	1.19	0.00	7.91	0.02	0.00	4.20	1.19	0.00	7.90	0.02	0.00
4.22	1.17	0.00	7.89	0.02	0.00	4.24	1.13	0.00	7.88	0.02	0.00
4.26	1.09	0.00	7.87	0.02	0.00	4.28	1.04	0.00	7.86	0.02	0.00
4.30	0.99	0.01	7.85	0.02	0.00	4.32	0.96	0.04	7.84	0.02	0.01
4.34	0.94	0.06	7.83	0.02	0.01	4.36	0.92	0.08	7.82	0.02	0.01
4.38	0.90	0.10	7.81	0.02	0.02	4.40	0.89	0.11	7.80	0.02	0.02
4.42	0.89	0.11	7.79	0.02	0.02	4.44	0.91	0.09	7.78	0.02	0.01
4.46	0.94	0.06	7.77	0.02	0.01	4.48	0.99	0.01	7.76	0.02	0.00
4.50	1.06	0.00	7.75	0.02	0.00	4.52	1.14	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	0.82	0.18	7.22	0.02	0.03
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	0.79	0.21	5.12	0.02	0.02
9.78	0.79	0.21	5.11	0.02	0.02	9.80	0.80	0.20	5.10	0.02	0.02
9.82	0.83	0.17	5.09	0.02	0.02	9.84	0.84	0.16	5.08	0.02	0.02
9.86	0.84	0.16	5.07	0.02	0.02	9.88	0.84	0.16	5.06	0.02	0.02
9.90	0.82	0.18	5.05	0.02	0.02	9.92	0.82	0.18	5.04	0.02	0.02
9.94	0.84	0.16	5.03	0.02	0.02	9.96	0.88	0.12	5.02	0.02	0.01
9.98	0.90	0.10	5.01	0.02	0.01	10.00	0.83	0.17	5.00	0.02	0.02
10.02	0.67	0.33	4.99	0.02	0.03	10.04	0.74	0.26	4.98	0.02	0.03
10.06	0.79	0.21	4.97	0.02	0.02	10.08	0.82	0.18	4.96	0.02	0.02
10.10	0.83	0.17	4.95	0.02	0.02	10.12	0.83	0.17	4.94	0.02	0.02
10.14	0.85	0.15	4.93	0.02	0.01	10.16	0.86	0.14	4.92	0.02	0.01
10.18	0.86	0.14	4.91	0.02	0.01	10.20	0.84	0.16	4.90	0.02	0.02
10.22	0.83	0.17	4.89	0.02	0.02	10.24	0.86	0.14	4.88	0.02	0.01
10.26	0.91	0.09	4.87	0.02	0.01	10.28	0.96	0.04	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	2.00	0.00	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	2.00	0.00	4.67	0.02	0.00	10.68	2.00	0.00	4.66	0.02	0.00
10.70	2.00	0.00	4.65	0.02	0.00	10.72	2.00	0.00	4.64	0.02	0.00
10.74	2.00	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	2.00	0.00	4.50	0.02	0.00
11.02	2.00	0.00	4.49	0.02	0.00	11.04	2.00	0.00	4.48	0.02	0.00
11.06	2.00	0.00	4.47	0.02	0.00	11.08	2.00	0.00	4.46	0.02	0.00
11.10	0.83	0.17	4.45	0.02	0.02	11.12	0.79	0.21	4.44	0.02	0.02
11.14	0.79	0.21	4.43	0.02	0.02	11.16	0.80	0.20	4.42	0.02	0.02
11.18	0.82	0.18	4.41	0.02	0.02	11.20	0.85	0.15	4.40	0.02	0.01
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	0.95	0.05	4.23	0.02	0.00	11.56	0.96	0.04	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	1.10	0.00	4.12	0.02	0.00
11.78	1.08	0.00	4.11	0.02	0.00	11.80	1.09	0.00	4.10	0.02	0.00
11.82	1.09	0.00	4.09	0.02	0.00	11.84	1.12	0.00	4.08	0.02	0.00
11.86	1.12	0.00	4.07	0.02	0.00	11.88	1.16	0.00	4.06	0.02	0.00
11.90	1.17	0.00	4.05	0.02	0.00	11.92	1.23	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	0.93	0.07	3.87	0.02	0.01	12.28	1.00	0.00	3.86	0.02	0.00
12.30	1.04	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	1.02	0.00	3.79	0.02	0.00	12.44	1.12	0.00	3.78	0.02	0.00
12.46	1.22	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	1.09	0.00	3.72	0.02	0.00
12.58	1.02	0.00	3.71	0.02	0.00	12.60	0.97	0.03	3.70	0.02	0.00
12.62	0.92	0.08	3.69	0.02	0.01	12.64	0.90	0.10	3.68	0.02	0.01
12.66	0.90	0.10	3.67	0.02	0.01	12.68	0.92	0.08	3.66	0.02	0.01
12.70	0.95	0.05	3.65	0.02	0.00	12.72	0.96	0.04	3.64	0.02	0.00
12.74	0.96	0.04	3.63	0.02	0.00	12.76	0.95	0.05	3.62	0.02	0.00
12.78	0.82	0.18	3.61	0.02	0.01	12.80	0.82	0.18	3.60	0.02	0.01
12.82	0.81	0.19	3.59	0.02	0.01	12.84	0.92	0.08	3.58	0.02	0.01
12.86	0.91	0.09	3.57	0.02	0.01	12.88	0.89	0.11	3.56	0.02	0.01
12.90	0.77	0.23	3.55	0.02	0.02	12.92	0.78	0.22	3.54	0.02	0.02
12.94	0.79	0.21	3.53	0.02	0.02	12.96	0.78	0.22	3.52	0.02	0.02
12.98	0.76	0.24	3.51	0.02	0.02	13.00	0.72	0.28	3.50	0.02	0.02
13.02	0.82	0.18	3.49	0.02	0.01	13.04	0.82	0.18	3.48	0.02	0.01
13.06	0.82	0.18	3.47	0.02	0.01	13.08	0.83	0.17	3.46	0.02	0.01
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	0.91	0.09	3.38	0.02	0.01
13.26	1.00	0.00	3.37	0.02	0.00	13.28	1.08	0.00	3.36	0.02	0.00
13.30	1.15	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	1.14	0.00	3.33	0.02	0.00	13.36	1.06	0.00	3.32	0.02	0.00
13.38	1.05	0.00	3.31	0.02	0.00	13.40	1.18	0.00	3.30	0.02	0.00
13.42	1.43	0.00	3.29	0.02	0.00	13.44	1.65	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	1.71	0.00	3.27	0.02	0.00	13.48	1.68	0.00	3.26	0.02	0.00
13.50	1.76	0.00	3.25	0.02	0.00	13.52	1.89	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	2.00	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	2.00	0.00	3.04	0.02	0.00
13.94	2.00	0.00	3.03	0.02	0.00	13.96	2.00	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	0.88	0.12	2.97	0.02	0.01	14.08	0.83	0.17	2.96	0.02	0.01
14.10	1.02	0.00	2.95	0.02	0.00	14.12	1.34	0.00	2.94	0.02	0.00
14.14	1.45	0.00	2.93	0.02	0.00	14.16	1.50	0.00	2.92	0.02	0.00
14.18	1.57	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	1.22	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	0.98	0.02	2.74	0.02	0.00
14.54	1.01	0.00	2.73	0.02	0.00	14.56	1.23	0.00	2.72	0.02	0.00
14.58	1.53	0.00	2.71	0.02	0.00	14.60	1.79	0.00	2.70	0.02	0.00
14.62	1.92	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	1.07	0.00	1.73	0.02	0.00	16.56	1.04	0.00	1.72	0.02	0.00
16.58	1.05	0.00	1.71	0.02	0.00	16.60	1.05	0.00	1.70	0.02	0.00
16.62	1.04	0.00	1.69	0.02	0.00	16.64	1.04	0.00	1.68	0.02	0.00
16.66	1.03	0.00	1.67	0.02	0.00	16.68	1.03	0.00	1.66	0.02	0.00
16.70	1.02	0.00	1.65	0.02	0.00	16.72	1.02	0.00	1.64	0.02	0.00
16.74	1.02	0.00	1.63	0.02	0.00	16.76	1.01	0.00	1.62	0.02	0.00
16.78	1.00	0.00	1.61	0.02	0.00	16.80	1.00	0.00	1.60	0.02	0.00
16.82	1.00	0.00	1.59	0.02	0.00	16.84	1.03	0.00	1.58	0.02	0.00
16.86	1.05	0.00	1.57	0.02	0.00	16.88	1.06	0.00	1.56	0.02	0.00
16.90	1.06	0.00	1.55	0.02	0.00	16.92	1.05	0.00	1.54	0.02	0.00
16.94	1.04	0.00	1.53	0.02	0.00	16.96	1.04	0.00	1.52	0.02	0.00
16.98	1.05	0.00	1.51	0.02	0.00	17.00	1.06	0.00	1.50	0.02	0.00
17.02	1.09	0.00	1.49	0.02	0.00	17.04	1.14	0.00	1.48	0.02	0.00
17.06	1.20	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	1.14	0.00	0.31	0.02	0.00	19.40	1.12	0.00	0.30	0.02	0.00
19.42	1.10	0.00	0.29	0.02	0.00	19.44	1.10	0.00	0.28	0.02	0.00
19.46	1.12	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	1.08	0.00	0.21	0.02	0.00	19.60	1.12	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 1.04**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

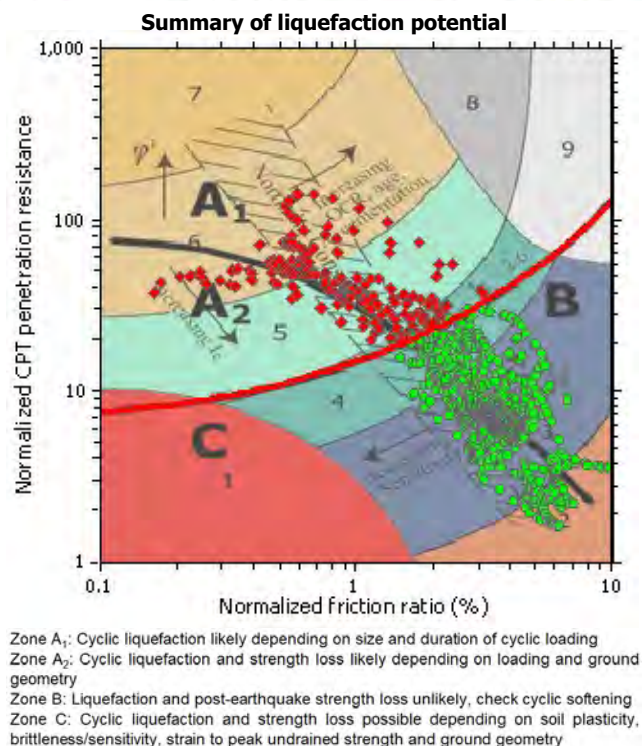
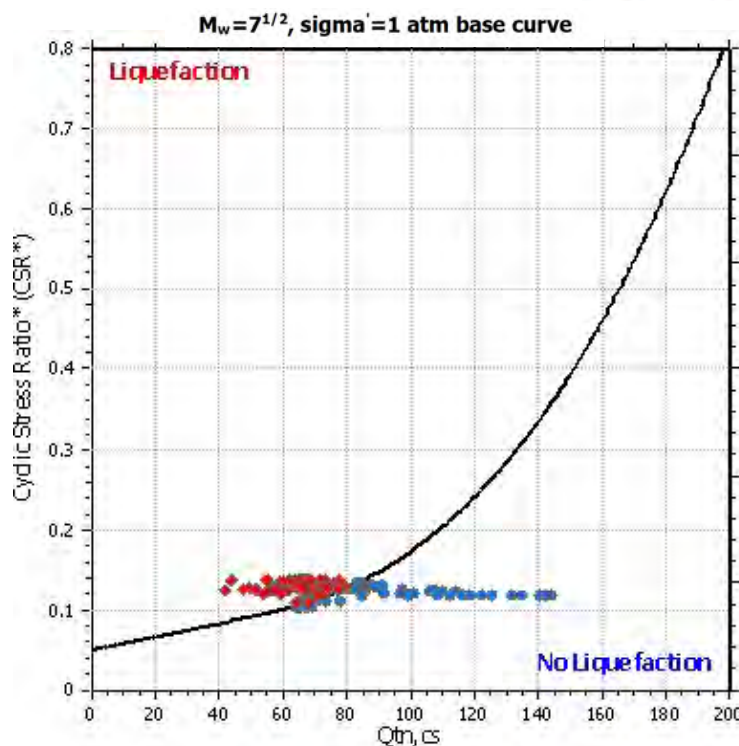
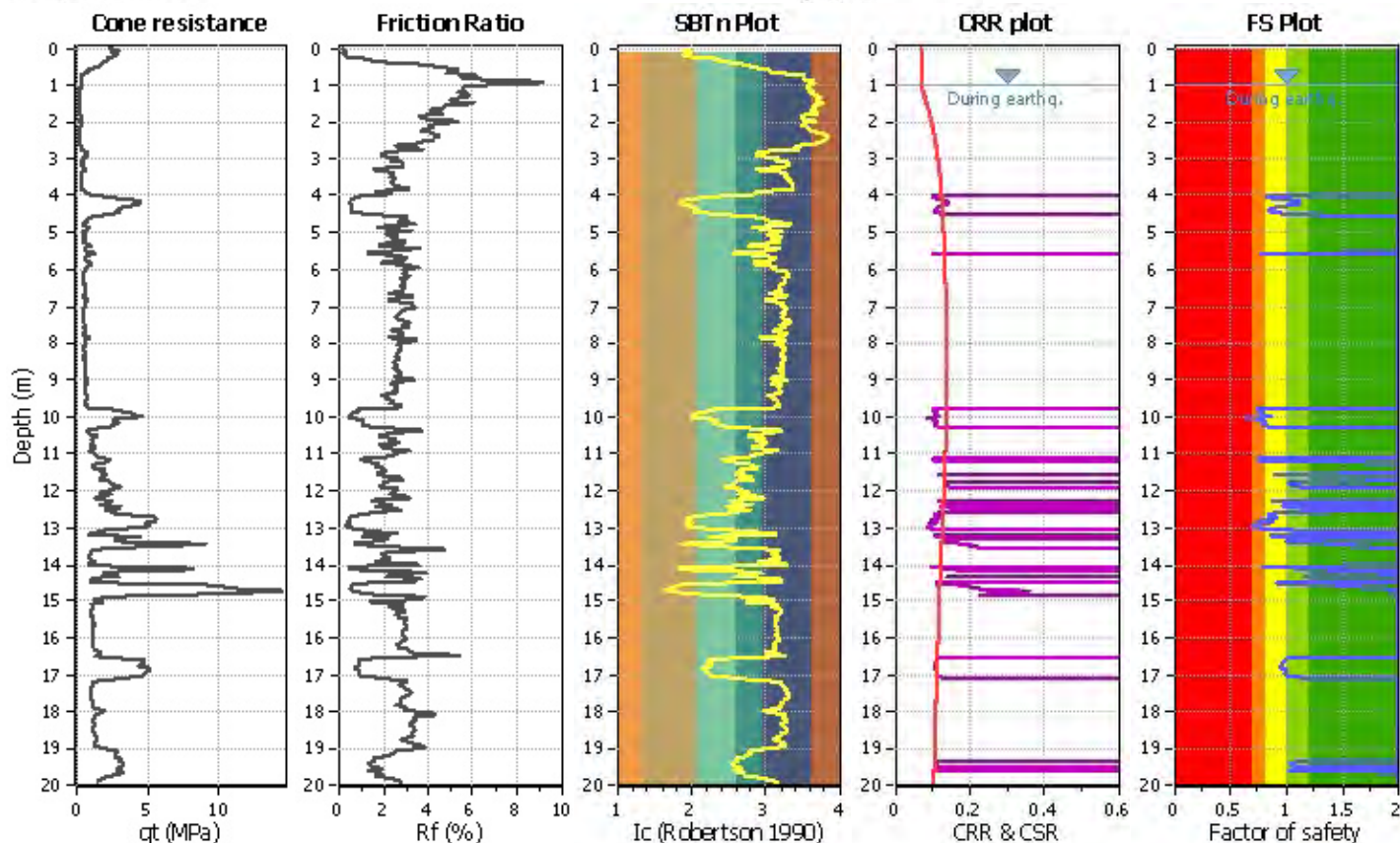
**Project title :**

**Location :**

**CPT file : CPTU2**

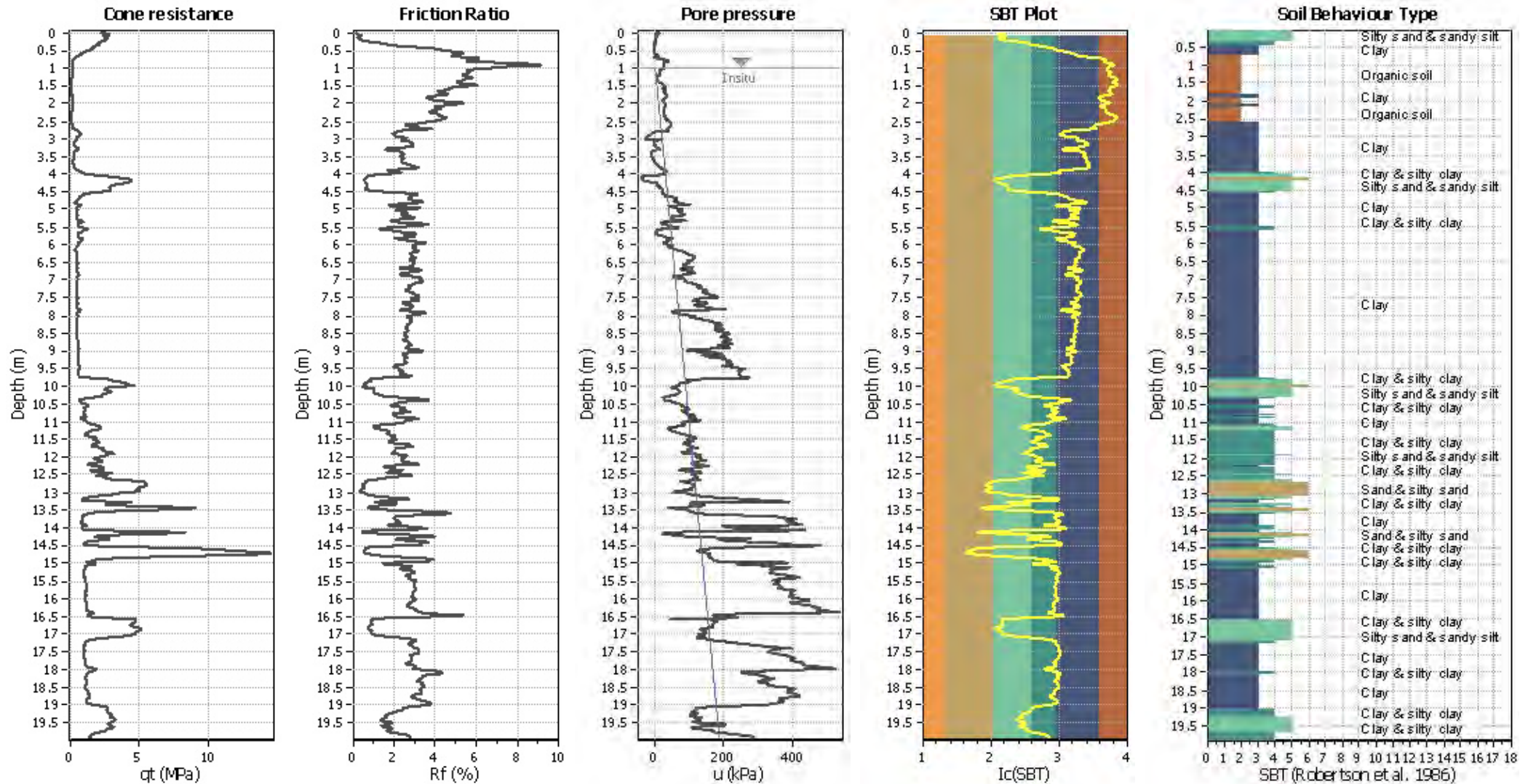
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



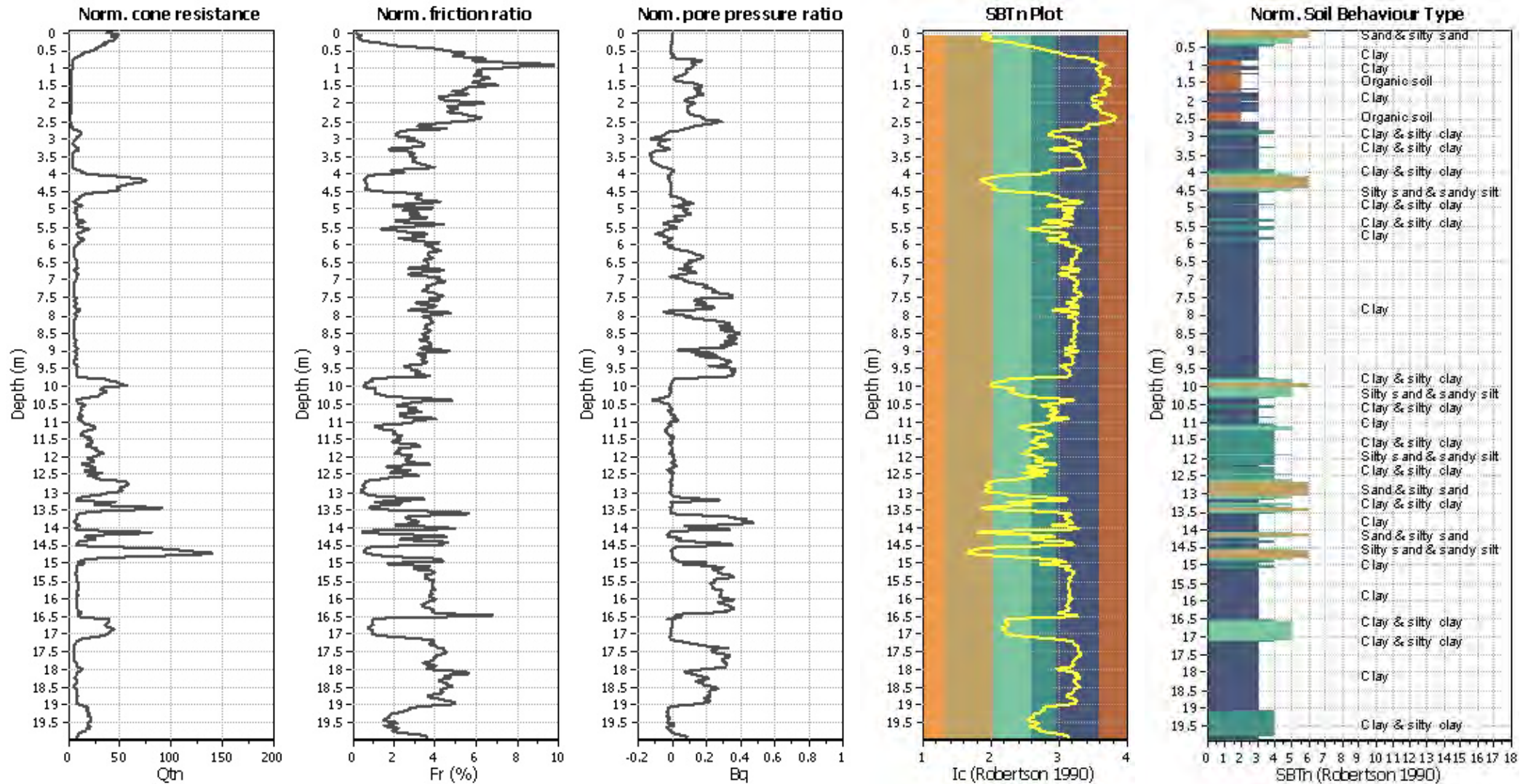
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

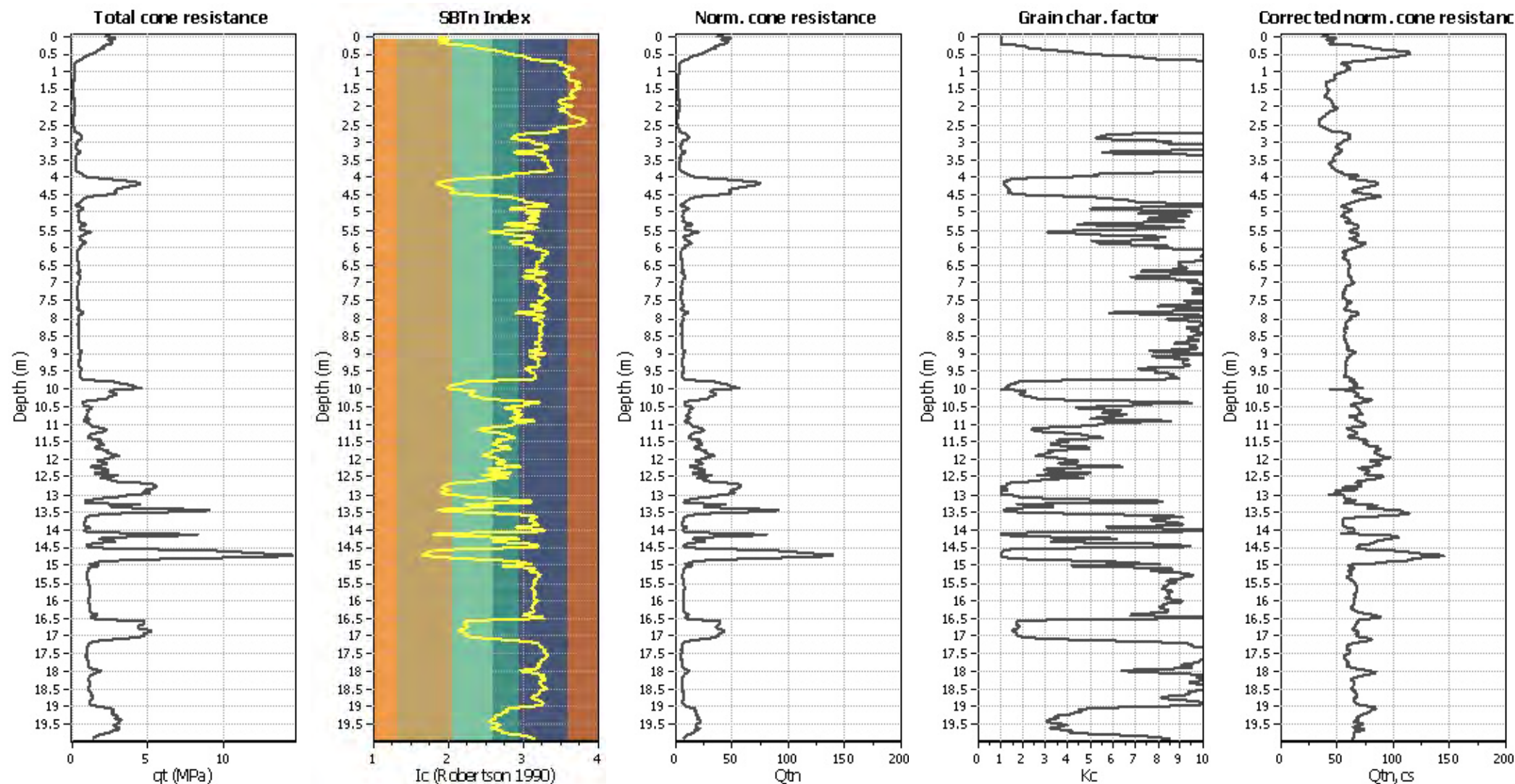
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



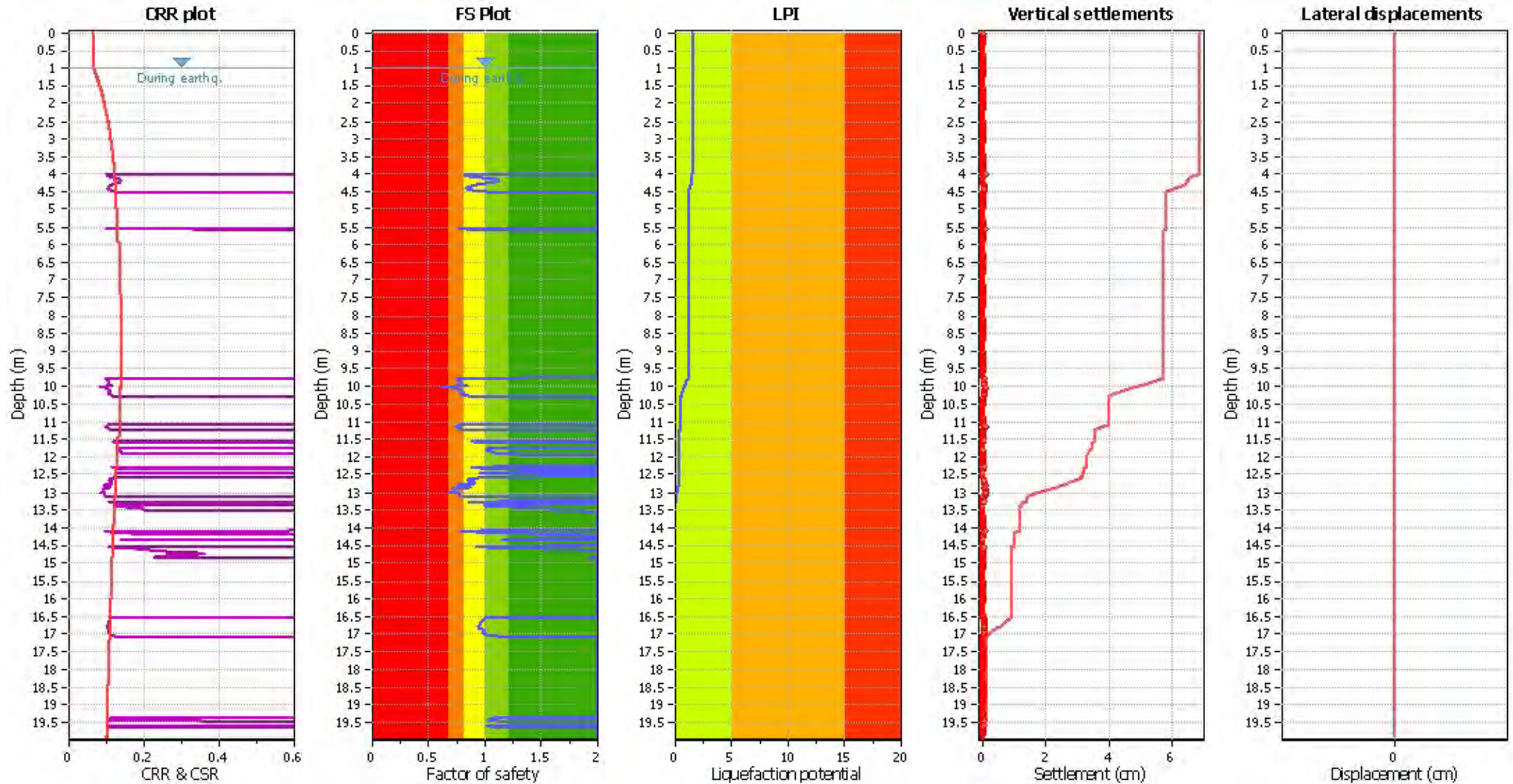
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

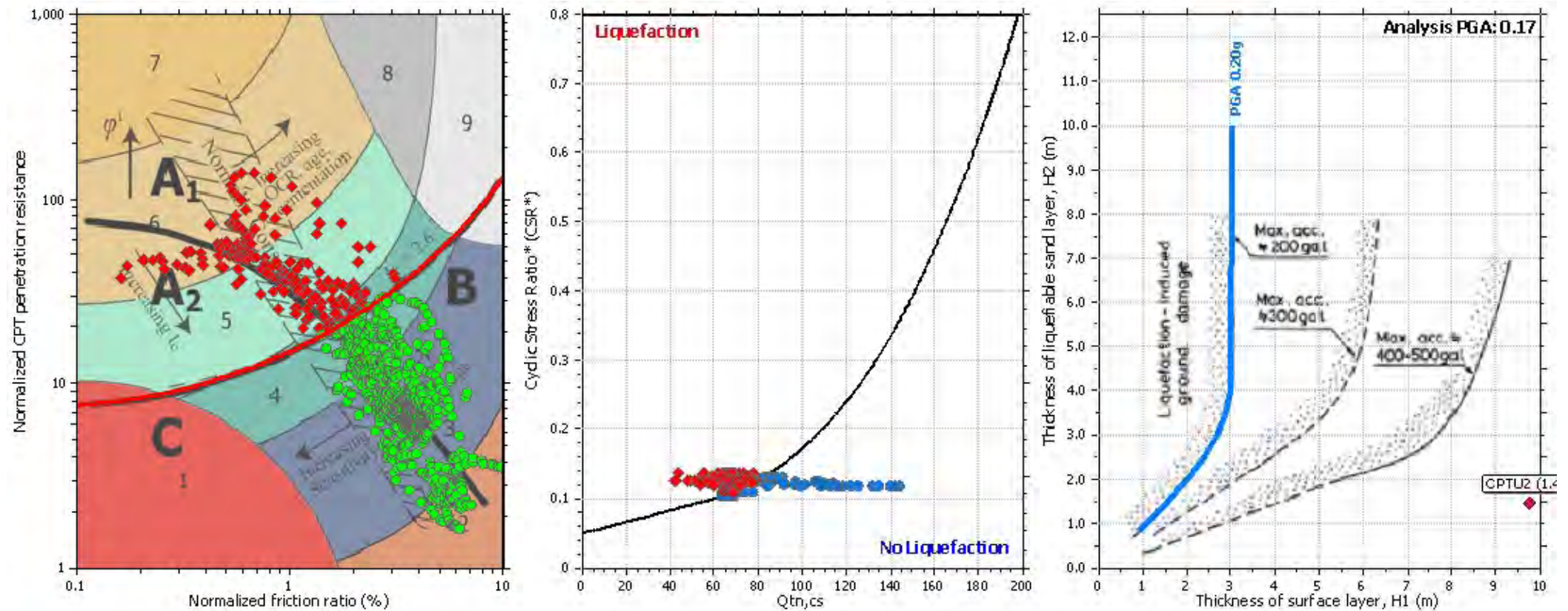
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



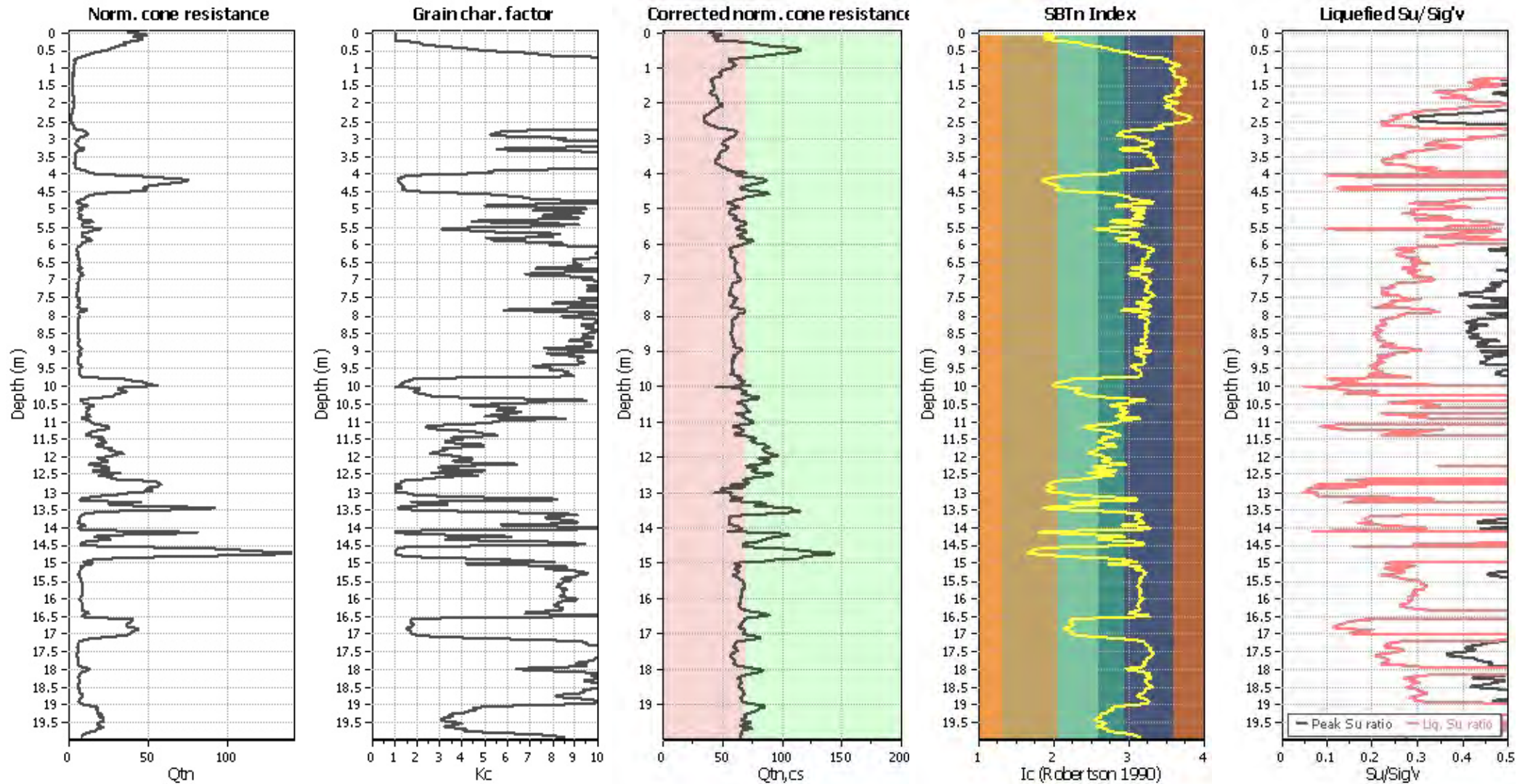
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	0.82	0.18	8.00	0.02	0.03
4.02	0.82	0.18	7.99	0.02	0.03	4.04	0.85	0.15	7.98	0.02	0.02
4.06	0.89	0.11	7.97	0.02	0.02	4.08	0.95	0.05	7.96	0.02	0.01
4.10	1.00	0.00	7.95	0.02	0.00	4.12	1.07	0.00	7.94	0.02	0.00
4.14	1.09	0.00	7.93	0.02	0.00	4.16	1.10	0.00	7.92	0.02	0.00
4.18	1.12	0.00	7.91	0.02	0.00	4.20	1.12	0.00	7.90	0.02	0.00
4.22	1.10	0.00	7.89	0.02	0.00	4.24	1.06	0.00	7.88	0.02	0.00
4.26	1.02	0.00	7.87	0.02	0.00	4.28	0.98	0.02	7.86	0.02	0.00
4.30	0.94	0.06	7.85	0.02	0.01	4.32	0.91	0.09	7.84	0.02	0.01
4.34	0.88	0.12	7.83	0.02	0.02	4.36	0.87	0.13	7.82	0.02	0.02
4.38	0.85	0.15	7.81	0.02	0.02	4.40	0.84	0.16	7.80	0.02	0.03
4.42	0.84	0.16	7.79	0.02	0.03	4.44	0.85	0.15	7.78	0.02	0.02
4.46	0.89	0.11	7.77	0.02	0.02	4.48	0.94	0.06	7.76	0.02	0.01
4.50	1.00	0.00	7.75	0.02	0.00	4.52	1.07	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	0.77	0.23	7.22	0.02	0.03
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	0.74	0.26	5.12	0.02	0.03
9.78	0.74	0.26	5.11	0.02	0.03	9.80	0.76	0.24	5.10	0.02	0.02
9.82	0.78	0.22	5.09	0.02	0.02	9.84	0.80	0.20	5.08	0.02	0.02
9.86	0.80	0.20	5.07	0.02	0.02	9.88	0.79	0.21	5.06	0.02	0.02
9.90	0.78	0.22	5.05	0.02	0.02	9.92	0.77	0.23	5.04	0.02	0.02
9.94	0.79	0.21	5.03	0.02	0.02	9.96	0.83	0.17	5.02	0.02	0.02
9.98	0.85	0.15	5.01	0.02	0.01	10.00	0.78	0.22	5.00	0.02	0.02
10.02	0.63	0.37	4.99	0.02	0.04	10.04	0.70	0.30	4.98	0.02	0.03
10.06	0.75	0.25	4.97	0.02	0.03	10.08	0.77	0.23	4.96	0.02	0.02
10.10	0.78	0.22	4.95	0.02	0.02	10.12	0.79	0.21	4.94	0.02	0.02
10.14	0.80	0.20	4.93	0.02	0.02	10.16	0.81	0.19	4.92	0.02	0.02
10.18	0.81	0.19	4.91	0.02	0.02	10.20	0.79	0.21	4.90	0.02	0.02
10.22	0.79	0.21	4.89	0.02	0.02	10.24	0.81	0.19	4.88	0.02	0.02
10.26	0.86	0.14	4.87	0.02	0.01	10.28	0.91	0.09	4.86	0.02	0.01
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	2.00	0.00	4.81	0.02	0.00	10.40	2.00	0.00	4.80	0.02	0.00
10.42	2.00	0.00	4.79	0.02	0.00	10.44	2.00	0.00	4.78	0.02	0.00
10.46	2.00	0.00	4.77	0.02	0.00	10.48	2.00	0.00	4.76	0.02	0.00
10.50	2.00	0.00	4.75	0.02	0.00	10.52	2.00	0.00	4.74	0.02	0.00
10.54	2.00	0.00	4.73	0.02	0.00	10.56	2.00	0.00	4.72	0.02	0.00
10.58	2.00	0.00	4.71	0.02	0.00	10.60	2.00	0.00	4.70	0.02	0.00
10.62	2.00	0.00	4.69	0.02	0.00	10.64	2.00	0.00	4.68	0.02	0.00
10.66	2.00	0.00	4.67	0.02	0.00	10.68	2.00	0.00	4.66	0.02	0.00
10.70	2.00	0.00	4.65	0.02	0.00	10.72	2.00	0.00	4.64	0.02	0.00
10.74	2.00	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	2.00	0.00	4.55	0.02	0.00	10.92	2.00	0.00	4.54	0.02	0.00
10.94	2.00	0.00	4.53	0.02	0.00	10.96	2.00	0.00	4.52	0.02	0.00
10.98	2.00	0.00	4.51	0.02	0.00	11.00	2.00	0.00	4.50	0.02	0.00
11.02	2.00	0.00	4.49	0.02	0.00	11.04	2.00	0.00	4.48	0.02	0.00
11.06	2.00	0.00	4.47	0.02	0.00	11.08	2.00	0.00	4.46	0.02	0.00
11.10	0.78	0.22	4.45	0.02	0.02	11.12	0.75	0.25	4.44	0.02	0.02
11.14	0.74	0.26	4.43	0.02	0.02	11.16	0.75	0.25	4.42	0.02	0.02
11.18	0.77	0.23	4.41	0.02	0.02	11.20	0.80	0.20	4.40	0.02	0.02
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	0.89	0.11	4.23	0.02	0.01	11.56	0.91	0.09	4.22	0.02	0.01
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	1.04	0.00	4.12	0.02	0.00
11.78	1.02	0.00	4.11	0.02	0.00	11.80	1.03	0.00	4.10	0.02	0.00
11.82	1.03	0.00	4.09	0.02	0.00	11.84	1.05	0.00	4.08	0.02	0.00
11.86	1.06	0.00	4.07	0.02	0.00	11.88	1.09	0.00	4.06	0.02	0.00
11.90	1.10	0.00	4.05	0.02	0.00	11.92	1.16	0.00	4.04	0.02	0.00
11.94	2.00	0.00	4.03	0.02	0.00	11.96	2.00	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	0.88	0.12	3.87	0.02	0.01	12.28	0.94	0.06	3.86	0.02	0.00
12.30	0.98	0.02	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	0.96	0.04	3.79	0.02	0.00	12.44	1.06	0.00	3.78	0.02	0.00
12.46	1.15	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	1.03	0.00	3.72	0.02	0.00
12.58	0.97	0.03	3.71	0.02	0.00	12.60	0.91	0.09	3.70	0.02	0.01
12.62	0.87	0.13	3.69	0.02	0.01	12.64	0.84	0.16	3.68	0.02	0.01
12.66	0.85	0.15	3.67	0.02	0.01	12.68	0.87	0.13	3.66	0.02	0.01
12.70	0.90	0.10	3.65	0.02	0.01	12.72	0.91	0.09	3.64	0.02	0.01
12.74	0.91	0.09	3.63	0.02	0.01	12.76	0.89	0.11	3.62	0.02	0.01
12.78	0.77	0.23	3.61	0.02	0.02	12.80	0.77	0.23	3.60	0.02	0.02
12.82	0.76	0.24	3.59	0.02	0.02	12.84	0.87	0.13	3.58	0.02	0.01
12.86	0.86	0.14	3.57	0.02	0.01	12.88	0.83	0.17	3.56	0.02	0.01
12.90	0.72	0.28	3.55	0.02	0.02	12.92	0.73	0.27	3.54	0.02	0.02
12.94	0.74	0.26	3.53	0.02	0.02	12.96	0.74	0.26	3.52	0.02	0.02
12.98	0.72	0.28	3.51	0.02	0.02	13.00	0.68	0.32	3.50	0.02	0.02
13.02	0.77	0.23	3.49	0.02	0.02	13.04	0.77	0.23	3.48	0.02	0.02
13.06	0.77	0.23	3.47	0.02	0.02	13.08	0.78	0.22	3.46	0.02	0.02
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	2.00	0.00	3.42	0.02	0.00
13.18	2.00	0.00	3.41	0.02	0.00	13.20	2.00	0.00	3.40	0.02	0.00
13.22	2.00	0.00	3.39	0.02	0.00	13.24	0.86	0.14	3.38	0.02	0.01
13.26	0.94	0.06	3.37	0.02	0.00	13.28	1.02	0.00	3.36	0.02	0.00
13.30	1.08	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	1.08	0.00	3.33	0.02	0.00	13.36	1.00	0.00	3.32	0.02	0.00
13.38	0.99	0.01	3.31	0.02	0.00	13.40	1.11	0.00	3.30	0.02	0.00
13.42	1.35	0.00	3.29	0.02	0.00	13.44	1.55	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	1.61	0.00	3.27	0.02	0.00	13.48	1.58	0.00	3.26	0.02	0.00
13.50	1.66	0.00	3.25	0.02	0.00	13.52	1.78	0.00	3.24	0.02	0.00
13.54	2.00	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	2.00	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	2.00	0.00	3.05	0.02	0.00	13.92	2.00	0.00	3.04	0.02	0.00
13.94	2.00	0.00	3.03	0.02	0.00	13.96	2.00	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	0.83	0.17	2.97	0.02	0.01	14.08	0.78	0.22	2.96	0.02	0.01
14.10	0.96	0.04	2.95	0.02	0.00	14.12	1.26	0.00	2.94	0.02	0.00
14.14	1.37	0.00	2.93	0.02	0.00	14.16	1.41	0.00	2.92	0.02	0.00
14.18	1.48	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	1.15	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	0.92	0.08	2.74	0.02	0.00
14.54	0.96	0.04	2.73	0.02	0.00	14.56	1.16	0.00	2.72	0.02	0.00
14.58	1.45	0.00	2.71	0.02	0.00	14.60	1.69	0.00	2.70	0.02	0.00
14.62	1.81	0.00	2.69	0.02	0.00	14.64	1.91	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	1.95	0.00	2.59	0.02	0.00	14.84	1.93	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	1.01	0.00	1.73	0.02	0.00	16.56	0.98	0.02	1.72	0.02	0.00
16.58	0.99	0.01	1.71	0.02	0.00	16.60	0.99	0.01	1.70	0.02	0.00
16.62	0.98	0.02	1.69	0.02	0.00	16.64	0.98	0.02	1.68	0.02	0.00
16.66	0.97	0.03	1.67	0.02	0.00	16.68	0.97	0.03	1.66	0.02	0.00
16.70	0.97	0.03	1.65	0.02	0.00	16.72	0.96	0.04	1.64	0.02	0.00
16.74	0.96	0.04	1.63	0.02	0.00	16.76	0.95	0.05	1.62	0.02	0.00
16.78	0.94	0.06	1.61	0.02	0.00	16.80	0.94	0.06	1.60	0.02	0.00
16.82	0.95	0.05	1.59	0.02	0.00	16.84	0.97	0.03	1.58	0.02	0.00
16.86	0.99	0.01	1.57	0.02	0.00	16.88	1.00	0.00	1.56	0.02	0.00
16.90	1.00	0.00	1.55	0.02	0.00	16.92	0.99	0.01	1.54	0.02	0.00
16.94	0.98	0.02	1.53	0.02	0.00	16.96	0.98	0.02	1.52	0.02	0.00
16.98	0.99	0.01	1.51	0.02	0.00	17.00	1.00	0.00	1.50	0.02	0.00
17.02	1.03	0.00	1.49	0.02	0.00	17.04	1.07	0.00	1.48	0.02	0.00
17.06	1.13	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	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
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	1.08	0.00	0.31	0.02	0.00	19.40	1.06	0.00	0.30	0.02	0.00
19.42	1.03	0.00	0.29	0.02	0.00	19.44	1.03	0.00	0.28	0.02	0.00
19.46	1.05	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	1.02	0.00	0.21	0.02	0.00	19.60	1.05	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 1.48**

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

## LIQUEFACTION ANALYSIS REPORT

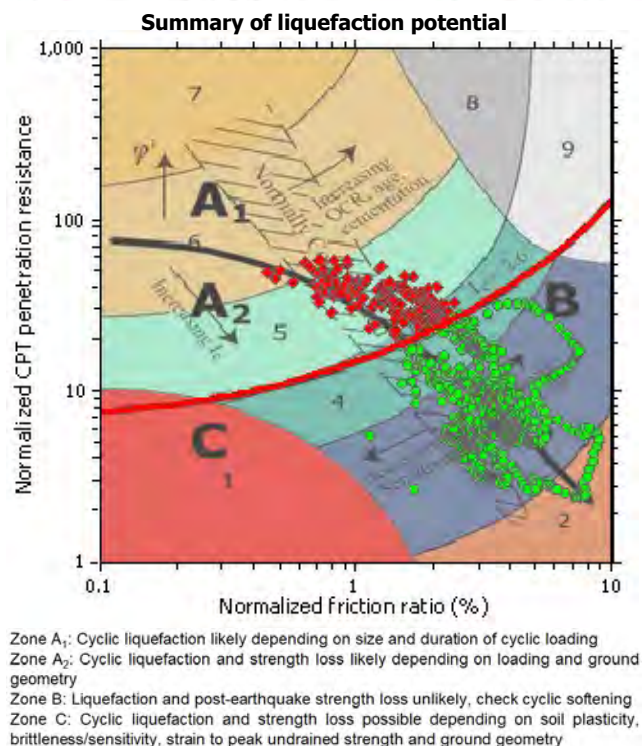
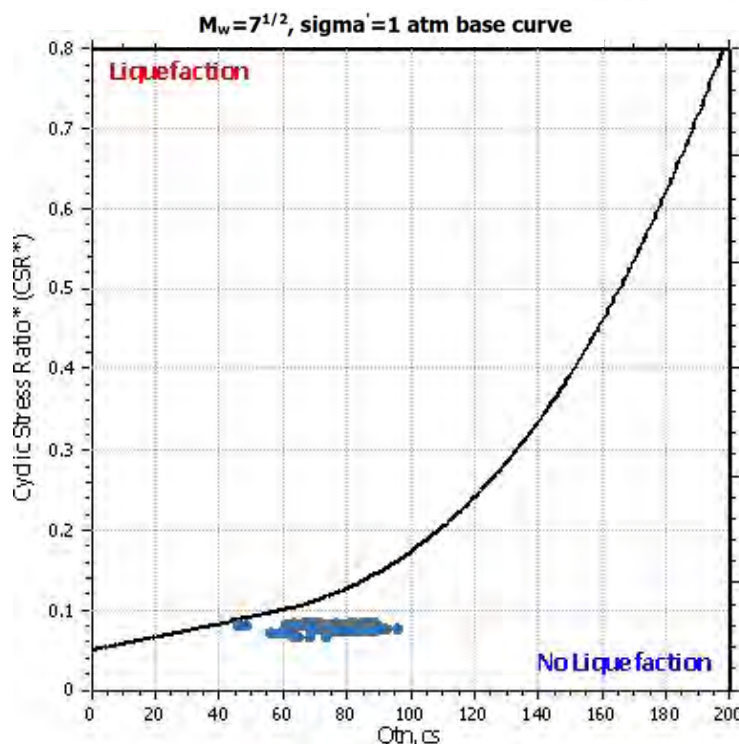
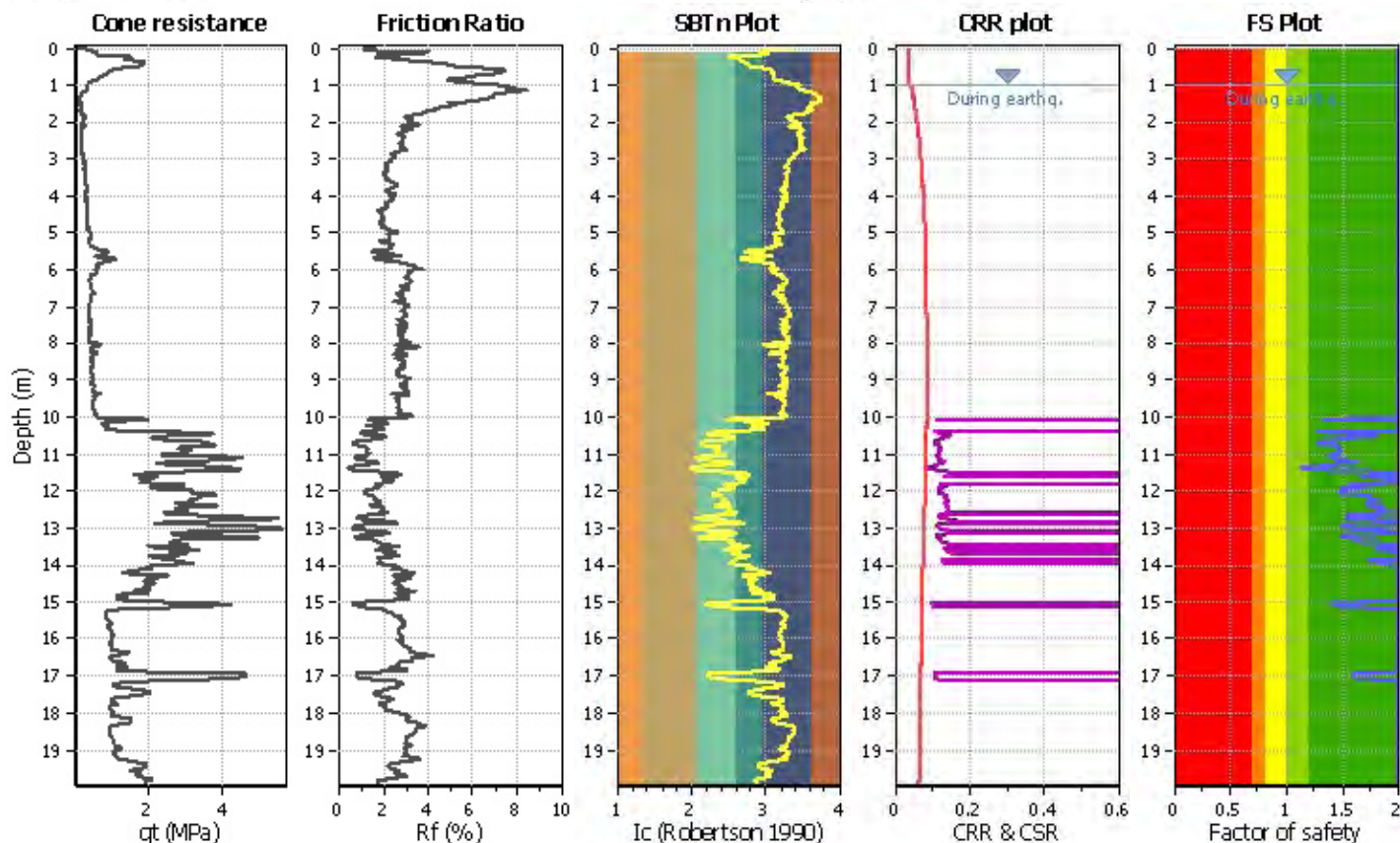
**Project title :**

**Location :**

**CPT file : CPTU3**

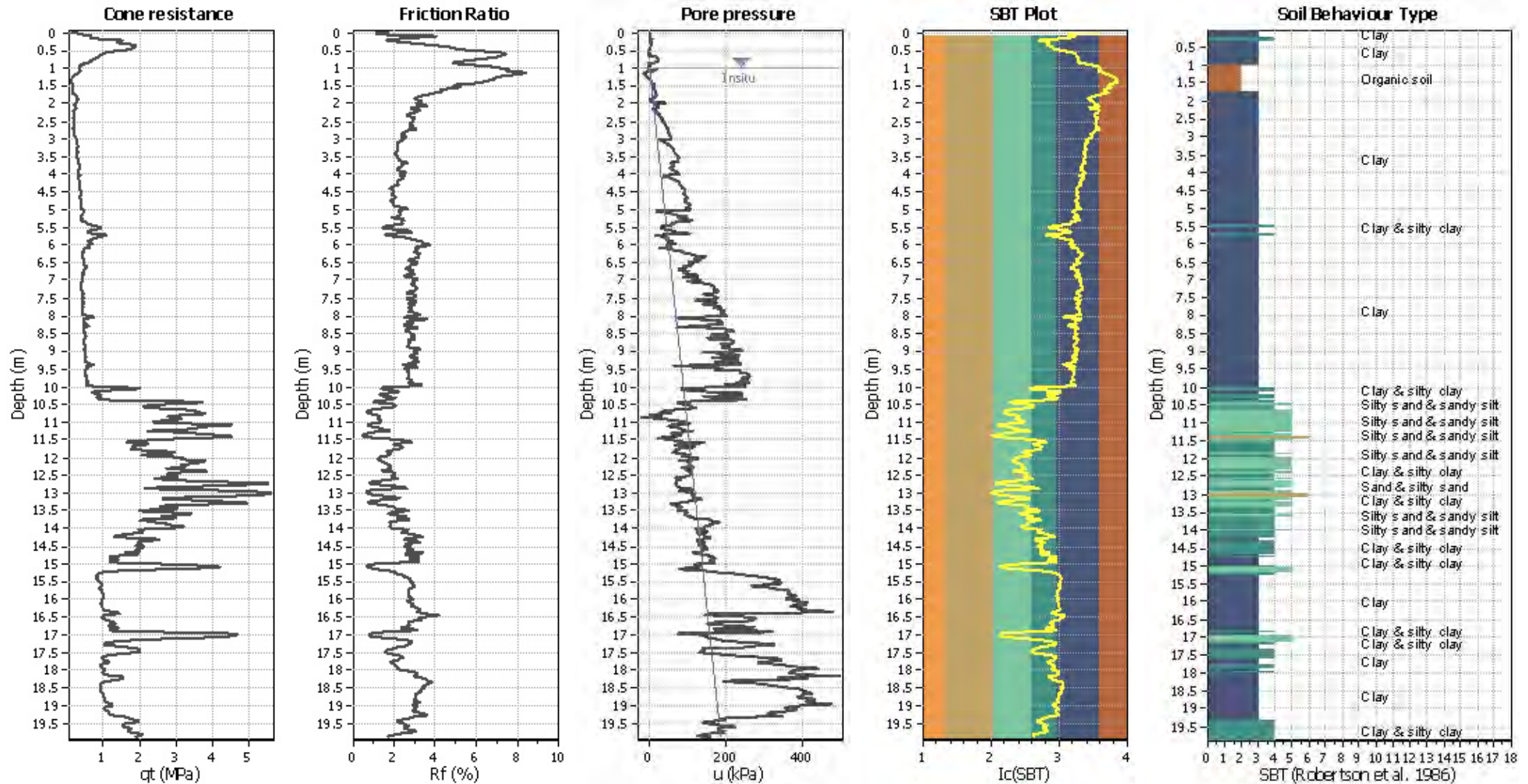
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	5.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



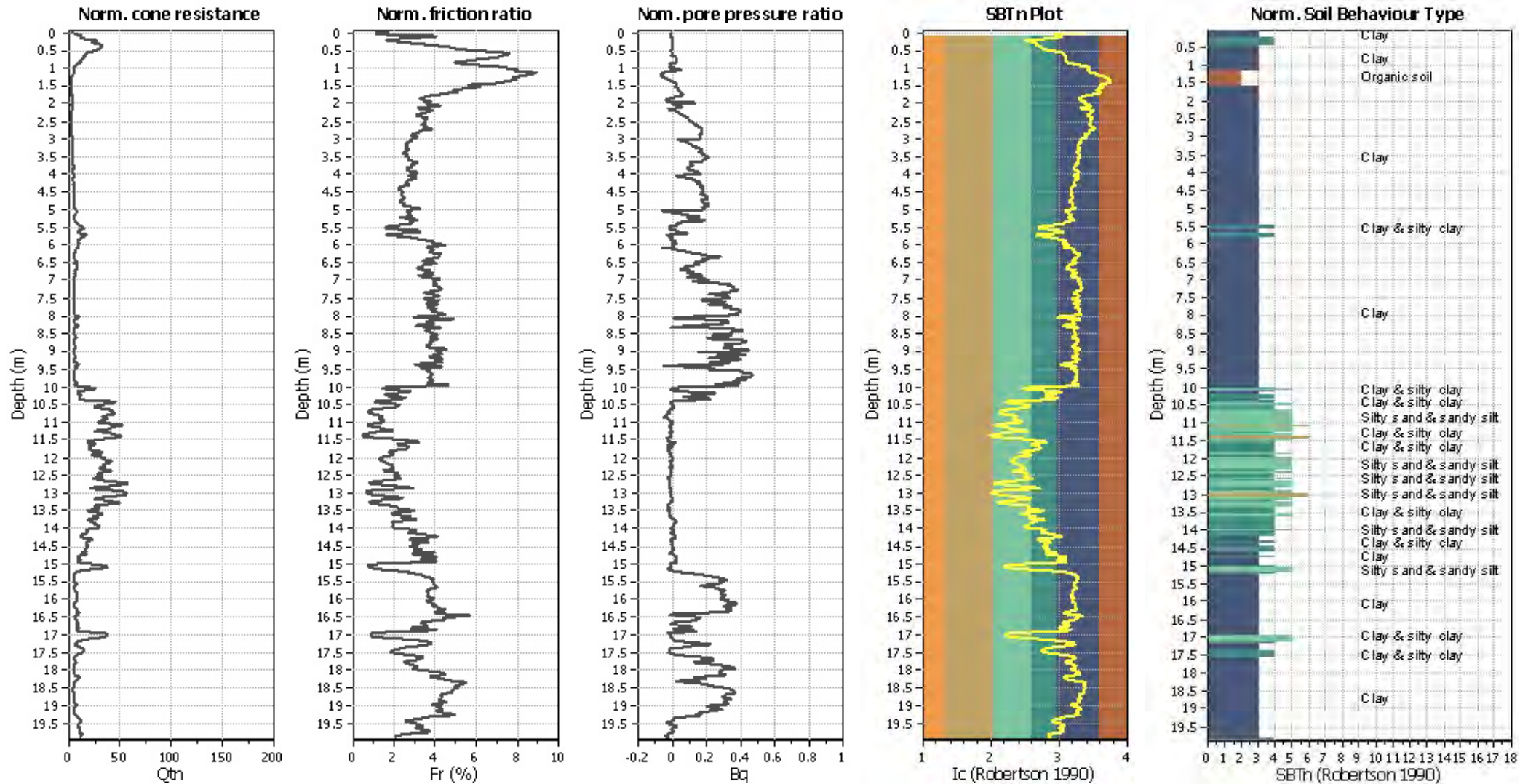
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

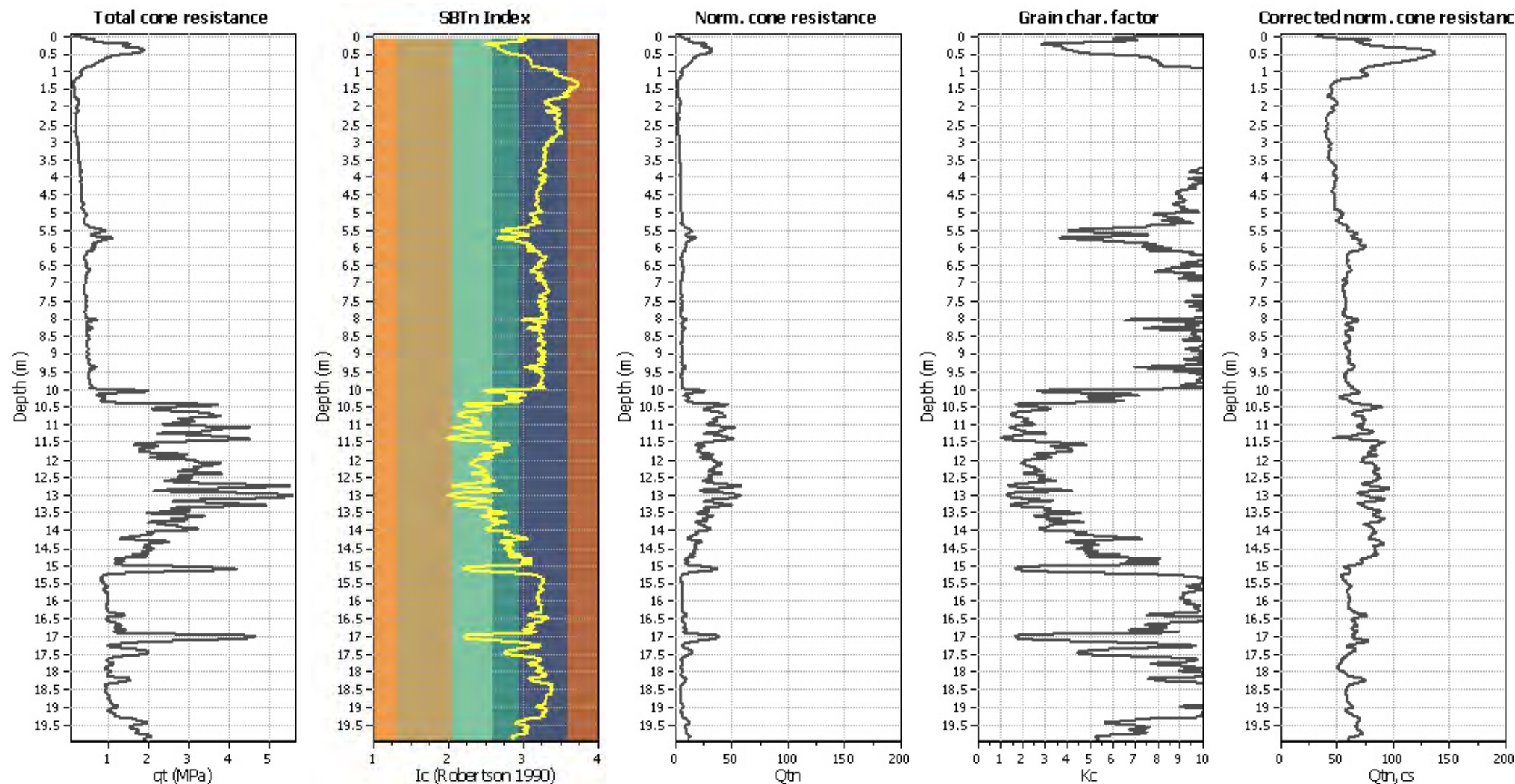
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



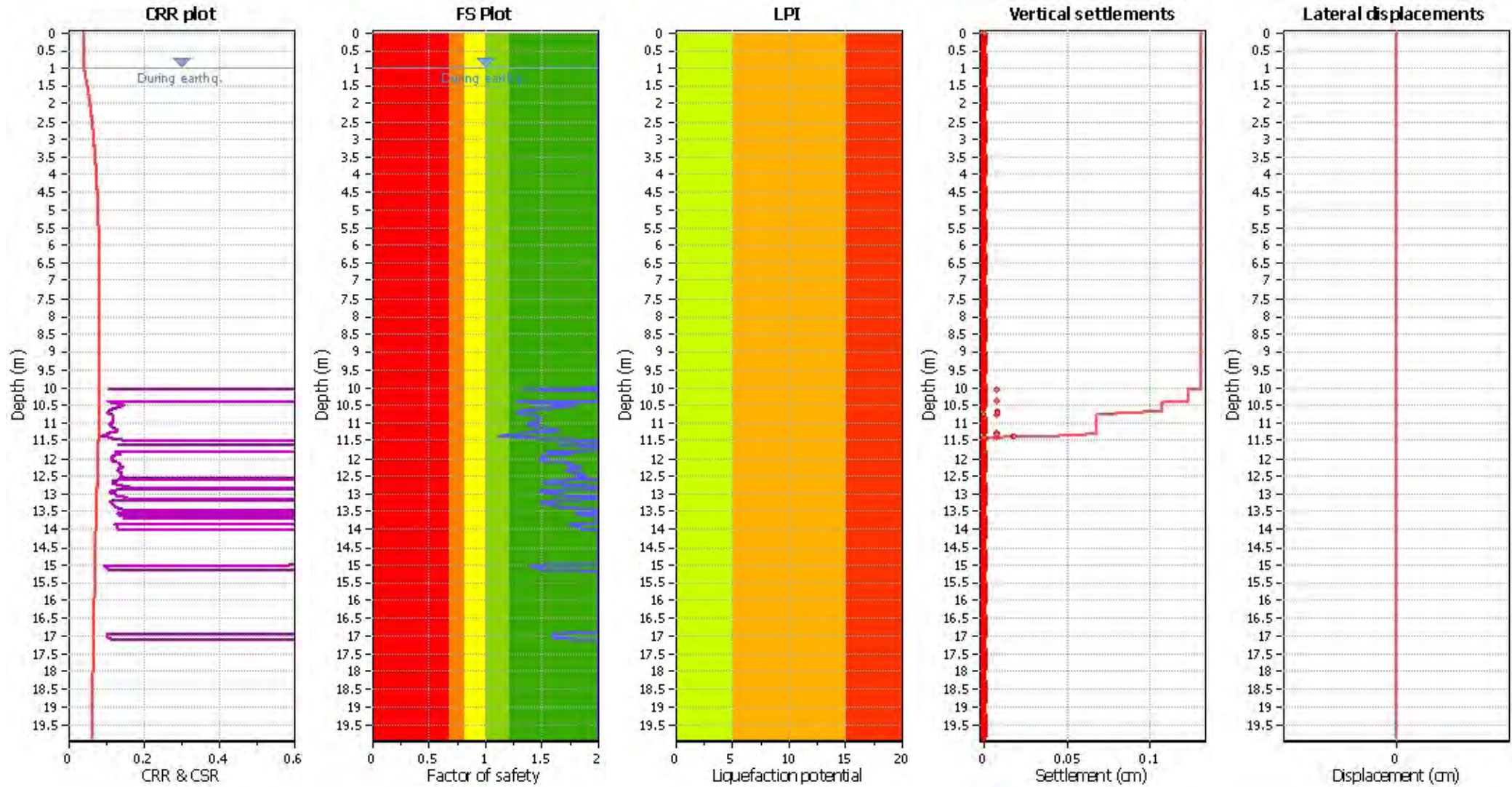
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>cs</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

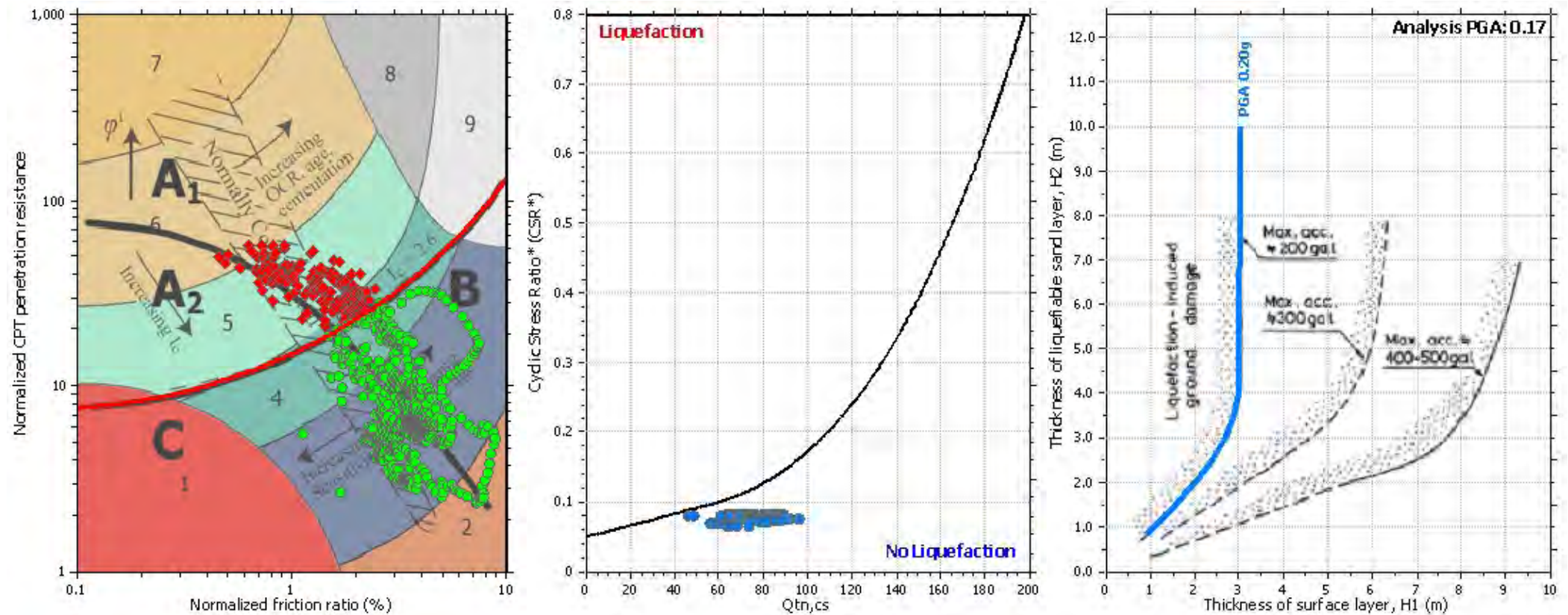
Red	Almost certain it will liquefy
Orange	Very likely to liquefy
Yellow	Liquefaction and no liq. are equally likely
Green	Unlike to liquefy
Dark Green	Almost certain it will not liquefy

### LPI color scheme

Red	Very high risk
Orange	High risk
Yellow	Low risk



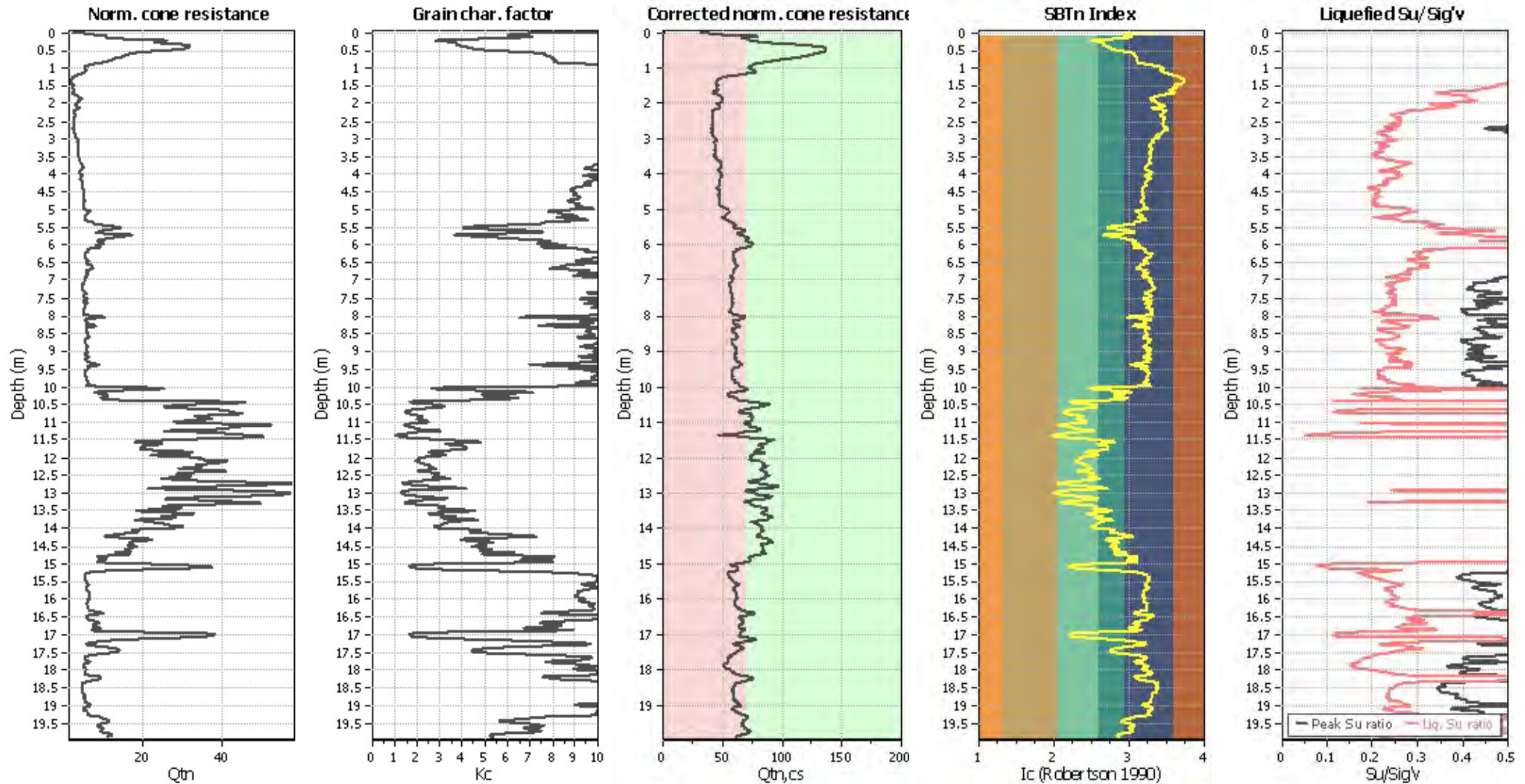
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	1.34	0.00	4.98	0.02	0.00
10.06	1.36	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	1.28	0.00	4.81	0.02	0.00	10.40	1.33	0.00	4.80	0.02	0.00
10.42	1.41	0.00	4.79	0.02	0.00	10.44	1.51	0.00	4.78	0.02	0.00
10.46	1.60	0.00	4.77	0.02	0.00	10.48	1.72	0.00	4.76	0.02	0.00
10.50	1.80	0.00	4.75	0.02	0.00	10.52	1.76	0.00	4.74	0.02	0.00
10.54	1.69	0.00	4.73	0.02	0.00	10.56	1.62	0.00	4.72	0.02	0.00
10.58	1.57	0.00	4.71	0.02	0.00	10.60	1.48	0.00	4.70	0.02	0.00
10.62	1.41	0.00	4.69	0.02	0.00	10.64	1.36	0.00	4.68	0.02	0.00
10.66	1.33	0.00	4.67	0.02	0.00	10.68	1.31	0.00	4.66	0.02	0.00
10.70	1.29	0.00	4.65	0.02	0.00	10.72	1.29	0.00	4.64	0.02	0.00
10.74	1.33	0.00	4.63	0.02	0.00	10.76	1.42	0.00	4.62	0.02	0.00
10.78	1.46	0.00	4.61	0.02	0.00	10.80	1.46	0.00	4.60	0.02	0.00
10.82	1.43	0.00	4.59	0.02	0.00	10.84	1.46	0.00	4.58	0.02	0.00
10.86	1.49	0.00	4.57	0.02	0.00	10.88	1.48	0.00	4.56	0.02	0.00
10.90	1.48	0.00	4.55	0.02	0.00	10.92	1.47	0.00	4.54	0.02	0.00
10.94	1.48	0.00	4.53	0.02	0.00	10.96	1.47	0.00	4.52	0.02	0.00
10.98	1.44	0.00	4.51	0.02	0.00	11.00	1.40	0.00	4.50	0.02	0.00
11.02	1.38	0.00	4.49	0.02	0.00	11.04	1.37	0.00	4.48	0.02	0.00
11.06	1.42	0.00	4.47	0.02	0.00	11.08	1.45	0.00	4.46	0.02	0.00
11.10	1.44	0.00	4.45	0.02	0.00	11.12	1.44	0.00	4.44	0.02	0.00
11.14	1.48	0.00	4.43	0.02	0.00	11.16	1.56	0.00	4.42	0.02	0.00
11.18	1.64	0.00	4.41	0.02	0.00	11.20	1.65	0.00	4.40	0.02	0.00
11.22	1.59	0.00	4.39	0.02	0.00	11.24	1.49	0.00	4.38	0.02	0.00
11.26	1.41	0.00	4.37	0.02	0.00	11.28	1.37	0.00	4.36	0.02	0.00
11.30	1.33	0.00	4.35	0.02	0.00	11.32	1.30	0.00	4.34	0.02	0.00
11.34	1.28	0.00	4.33	0.02	0.00	11.36	1.12	0.00	4.32	0.02	0.00
11.38	1.15	0.00	4.31	0.02	0.00	11.40	1.34	0.00	4.30	0.02	0.00
11.42	1.40	0.00	4.29	0.02	0.00	11.44	1.48	0.00	4.28	0.02	0.00
11.46	1.66	0.00	4.27	0.02	0.00	11.48	1.84	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	1.66	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	1.56	0.00	4.10	0.02	0.00
11.82	1.60	0.00	4.09	0.02	0.00	11.84	1.70	0.00	4.08	0.02	0.00
11.86	1.77	0.00	4.07	0.02	0.00	11.88	1.70	0.00	4.06	0.02	0.00
11.90	1.58	0.00	4.05	0.02	0.00	11.92	1.50	0.00	4.04	0.02	0.00
11.94	1.50	0.00	4.03	0.02	0.00	11.96	1.51	0.00	4.02	0.02	0.00
11.98	1.53	0.00	4.01	0.02	0.00	12.00	1.52	0.00	4.00	0.02	0.00
12.02	1.49	0.00	3.99	0.02	0.00	12.04	1.47	0.00	3.98	0.02	0.00
12.06	1.52	0.00	3.97	0.02	0.00	12.08	1.59	0.00	3.96	0.02	0.00
12.10	1.65	0.00	3.95	0.02	0.00	12.12	1.70	0.00	3.94	0.02	0.00
12.14	1.74	0.00	3.93	0.02	0.00	12.16	1.76	0.00	3.92	0.02	0.00
12.18	1.74	0.00	3.91	0.02	0.00	12.20	1.73	0.00	3.90	0.02	0.00
12.22	1.80	0.00	3.89	0.02	0.00	12.24	1.85	0.00	3.88	0.02	0.00
12.26	1.84	0.00	3.87	0.02	0.00	12.28	1.77	0.00	3.86	0.02	0.00
12.30	1.73	0.00	3.85	0.02	0.00	12.32	1.72	0.00	3.84	0.02	0.00
12.34	1.72	0.00	3.83	0.02	0.00	12.36	1.73	0.00	3.82	0.02	0.00
12.38	1.76	0.00	3.81	0.02	0.00	12.40	1.80	0.00	3.80	0.02	0.00
12.42	1.86	0.00	3.79	0.02	0.00	12.44	1.86	0.00	3.78	0.02	0.00
12.46	1.82	0.00	3.77	0.02	0.00	12.48	1.84	0.00	3.76	0.02	0.00
12.50	1.90	0.00	3.75	0.02	0.00	12.52	1.88	0.00	3.74	0.02	0.00
12.54	1.83	0.00	3.73	0.02	0.00	12.56	1.80	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	1.75	0.00	3.70	0.02	0.00
12.62	1.68	0.00	3.69	0.02	0.00	12.64	1.59	0.00	3.68	0.02	0.00
12.66	1.54	0.00	3.67	0.02	0.00	12.68	1.52	0.00	3.66	0.02	0.00
12.70	1.58	0.00	3.65	0.02	0.00	12.72	1.67	0.00	3.64	0.02	0.00
12.74	1.74	0.00	3.63	0.02	0.00	12.76	1.86	0.00	3.62	0.02	0.00
12.78	2.00	0.00	3.61	0.02	0.00	12.80	2.00	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	1.71	0.00	3.56	0.02	0.00
12.90	1.55	0.00	3.55	0.02	0.00	12.92	1.49	0.00	3.54	0.02	0.00
12.94	1.49	0.00	3.53	0.02	0.00	12.96	1.49	0.00	3.52	0.02	0.00
12.98	1.52	0.00	3.51	0.02	0.00	13.00	1.57	0.00	3.50	0.02	0.00
13.02	1.63	0.00	3.49	0.02	0.00	13.04	1.71	0.00	3.48	0.02	0.00
13.06	1.85	0.00	3.47	0.02	0.00	13.08	1.98	0.00	3.46	0.02	0.00
13.10	2.00	0.00	3.45	0.02	0.00	13.12	2.00	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	1.82	0.00	3.42	0.02	0.00
13.18	1.69	0.00	3.41	0.02	0.00	13.20	1.58	0.00	3.40	0.02	0.00
13.22	1.51	0.00	3.39	0.02	0.00	13.24	1.49	0.00	3.38	0.02	0.00
13.26	1.52	0.00	3.37	0.02	0.00	13.28	1.57	0.00	3.36	0.02	0.00
13.30	1.59	0.00	3.35	0.02	0.00	13.32	1.61	0.00	3.34	0.02	0.00
13.34	1.63	0.00	3.33	0.02	0.00	13.36	1.66	0.00	3.32	0.02	0.00
13.38	1.74	0.00	3.31	0.02	0.00	13.40	1.84	0.00	3.30	0.02	0.00
13.42	1.93	0.00	3.29	0.02	0.00	13.44	1.97	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	1.81	0.00	3.23	0.02	0.00	13.56	1.81	0.00	3.22	0.02	0.00
13.58	1.84	0.00	3.21	0.02	0.00	13.60	1.90	0.00	3.20	0.02	0.00
13.62	1.94	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	2.00	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	1.74	0.00	3.07	0.02	0.00	13.88	1.77	0.00	3.06	0.02	0.00
13.90	1.75	0.00	3.05	0.02	0.00	13.92	1.80	0.00	3.04	0.02	0.00
13.94	1.83	0.00	3.03	0.02	0.00	13.96	1.85	0.00	3.02	0.02	0.00
13.98	1.84	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	2.00	0.00	2.97	0.02	0.00	14.08	2.00	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	2.00	0.00	2.73	0.02	0.00	14.56	2.00	0.00	2.72	0.02	0.00
14.58	2.00	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	1.44	0.00	2.50	0.02	0.00
15.02	1.40	0.00	2.49	0.02	0.00	15.04	1.41	0.00	2.48	0.02	0.00
15.06	1.44	0.00	2.47	0.02	0.00	15.08	1.48	0.00	2.46	0.02	0.00
15.10	1.49	0.00	2.45	0.02	0.00	15.12	1.48	0.00	2.44	0.02	0.00
15.14	1.49	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	2.00	0.00	1.73	0.02	0.00	16.56	2.00	0.00	1.72	0.02	0.00
16.58	2.00	0.00	1.71	0.02	0.00	16.60	2.00	0.00	1.70	0.02	0.00
16.62	2.00	0.00	1.69	0.02	0.00	16.64	2.00	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	2.00	0.00	1.63	0.02	0.00	16.76	2.00	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	1.62	0.00	1.54	0.02	0.00
16.94	1.61	0.00	1.53	0.02	0.00	16.96	1.61	0.00	1.52	0.02	0.00
16.98	1.60	0.00	1.51	0.02	0.00	17.00	1.59	0.00	1.50	0.02	0.00
17.02	1.59	0.00	1.49	0.02	0.00	17.04	1.62	0.00	1.48	0.02	0.00
17.06	1.69	0.00	1.47	0.02	0.00	17.08	1.80	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

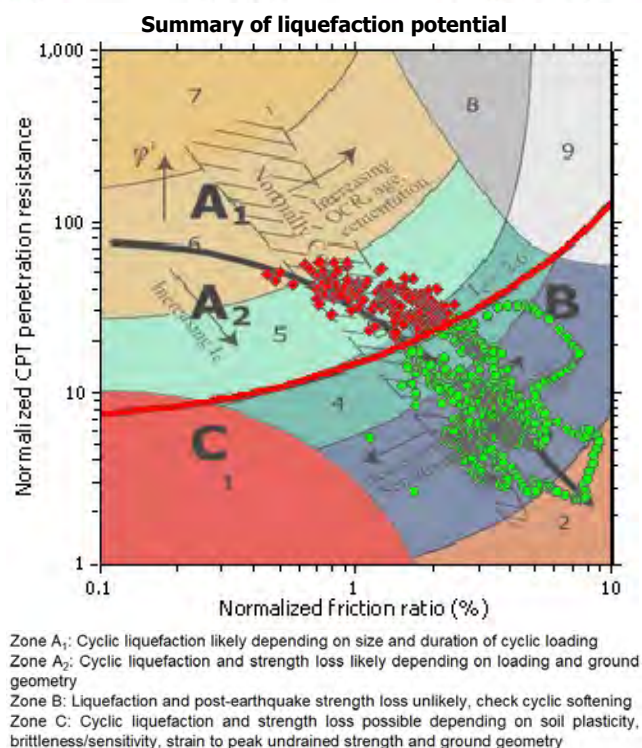
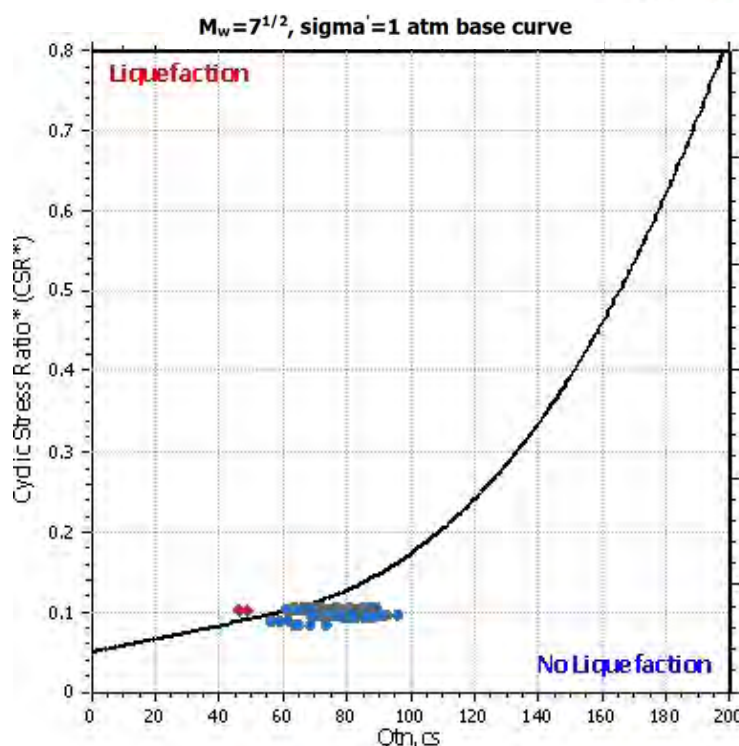
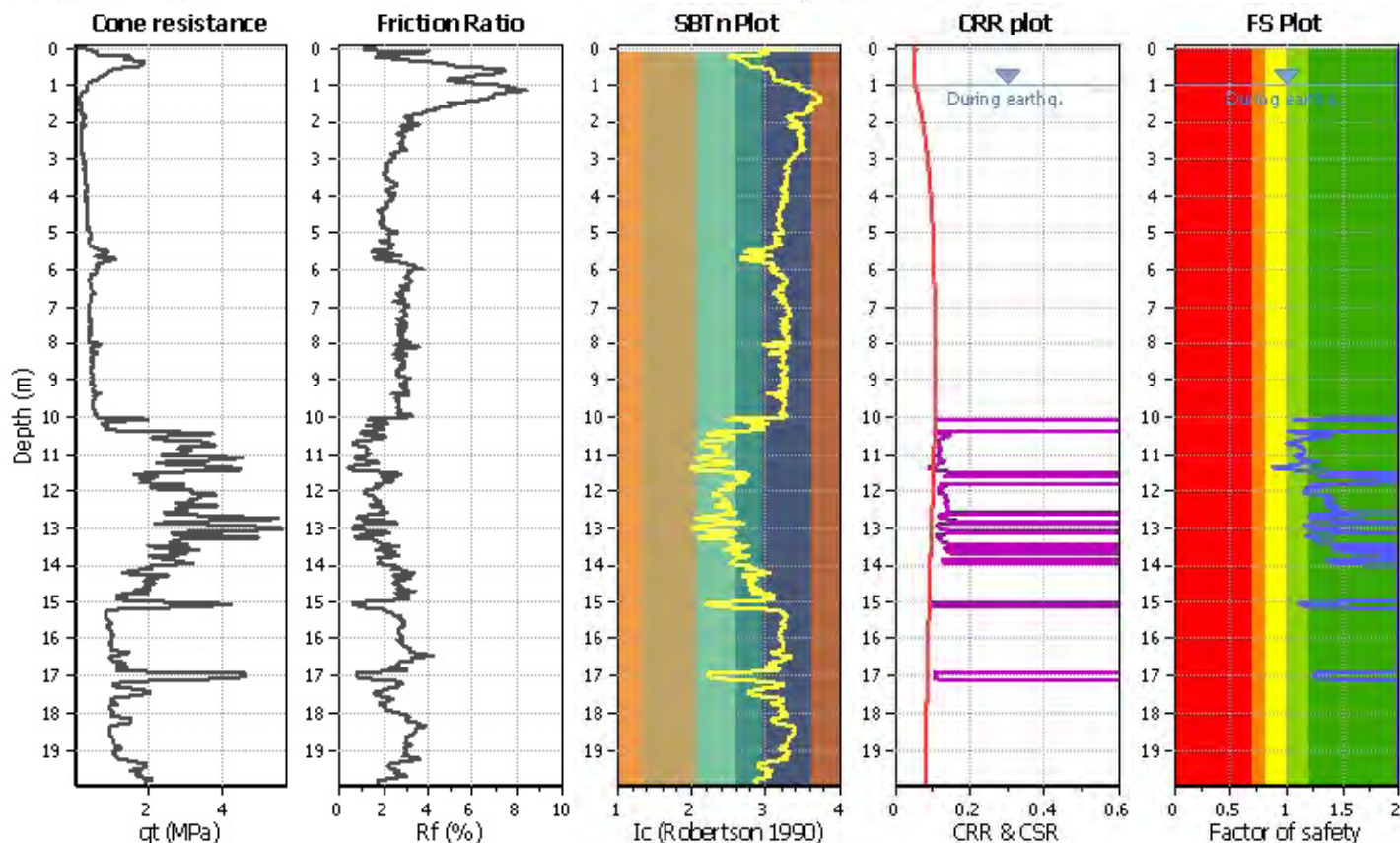
**Project title :**

**Location :**

**CPT file : CPTU3**

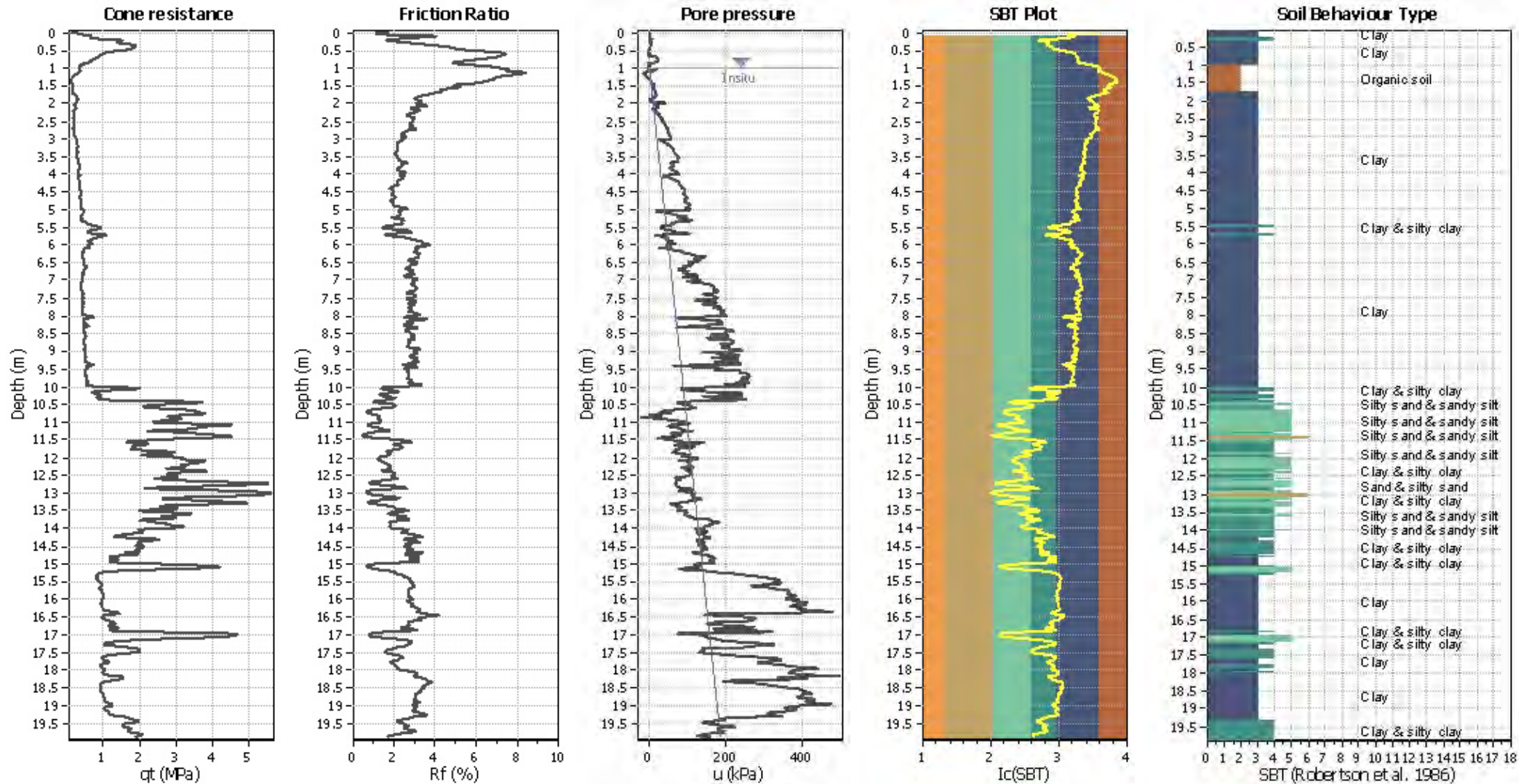
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based





## CPT basic interpretation plo



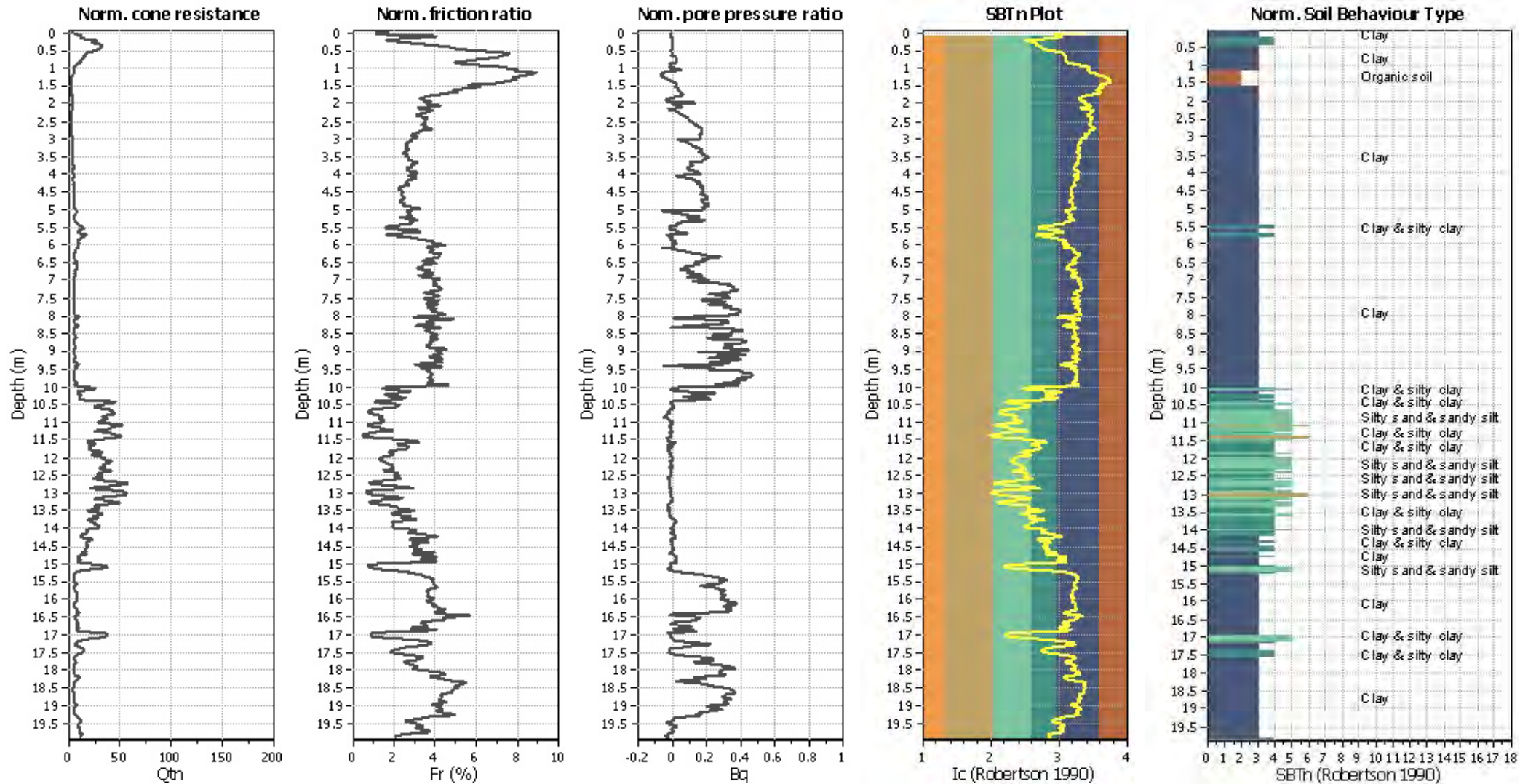
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

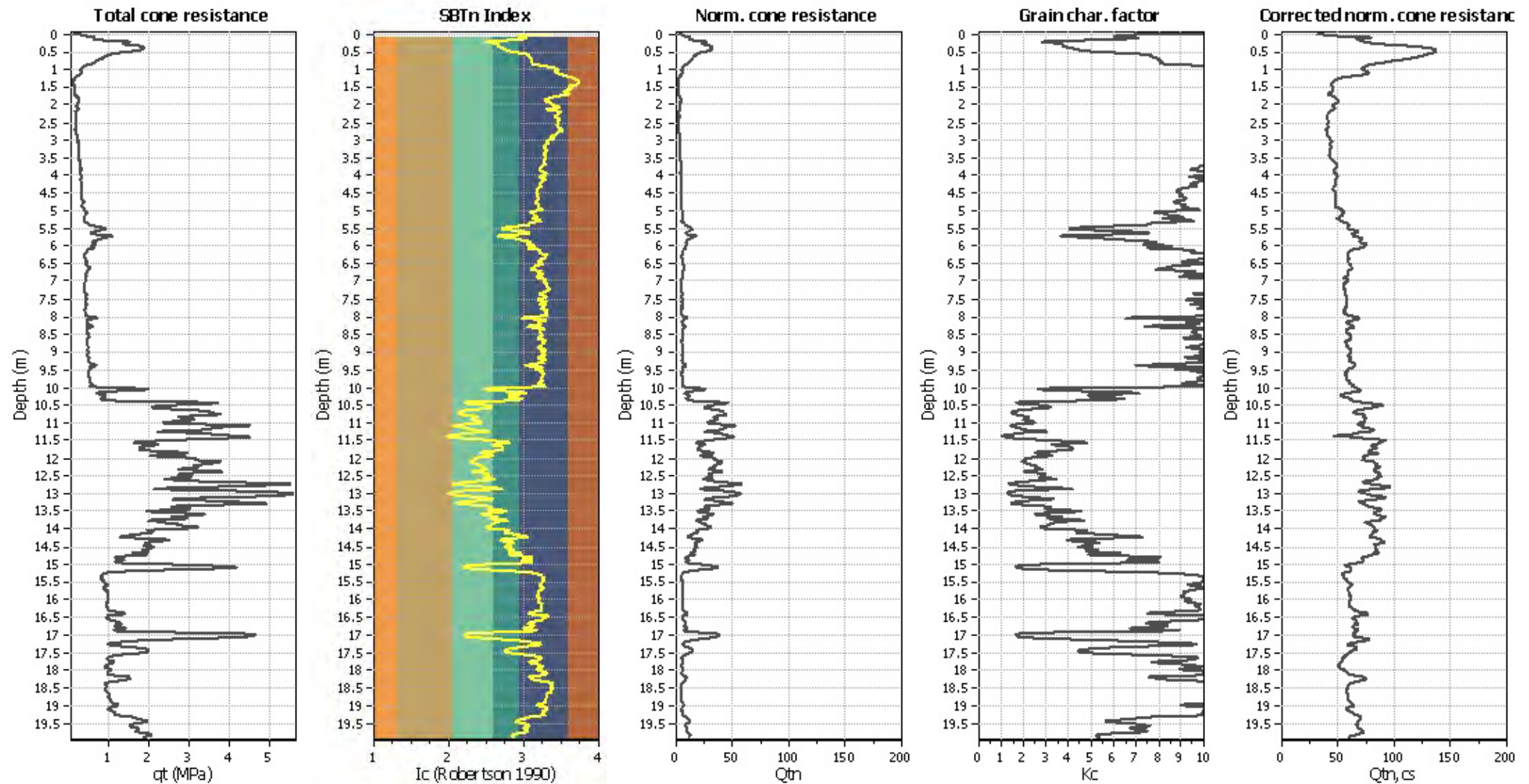
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



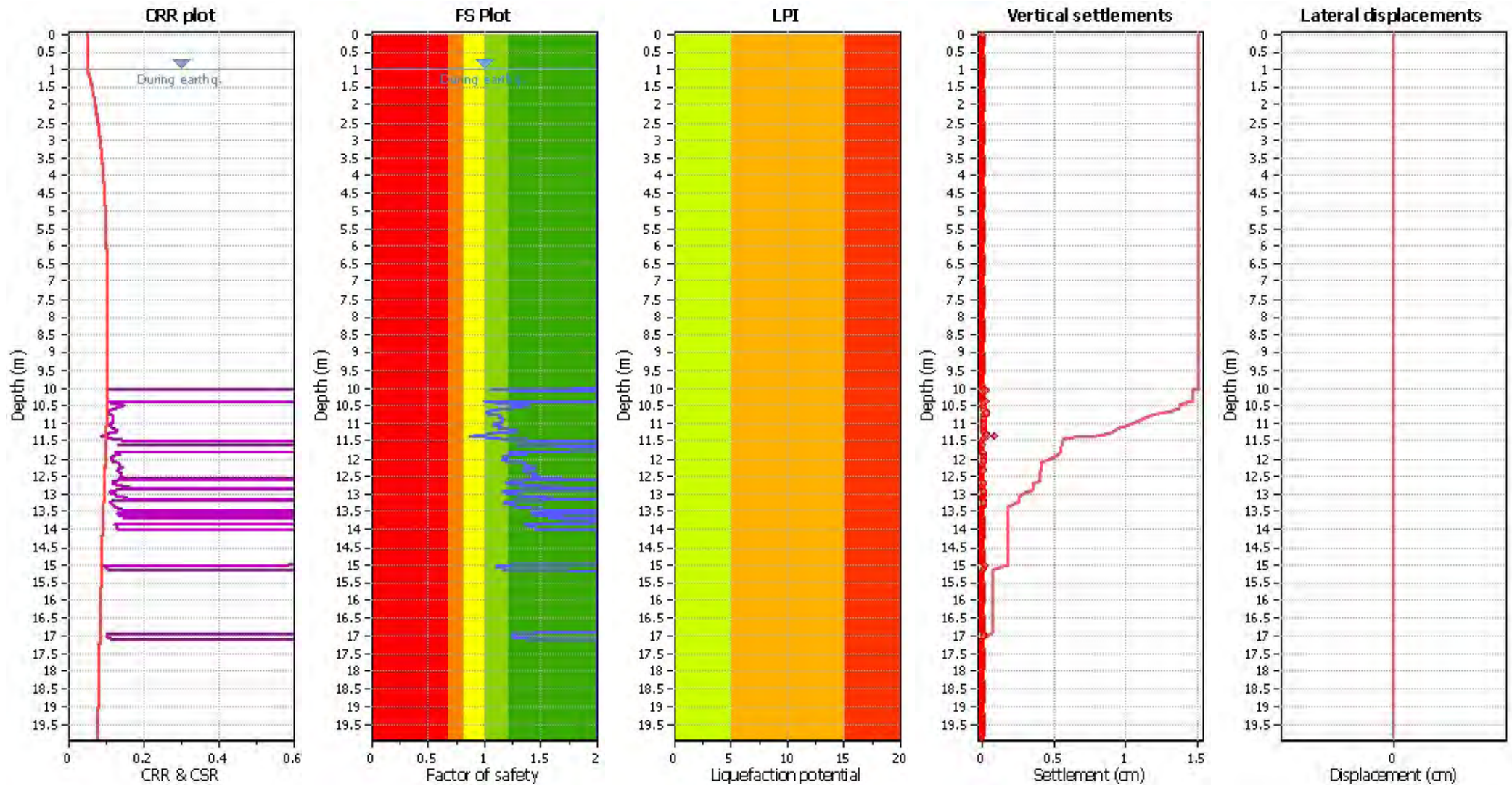
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

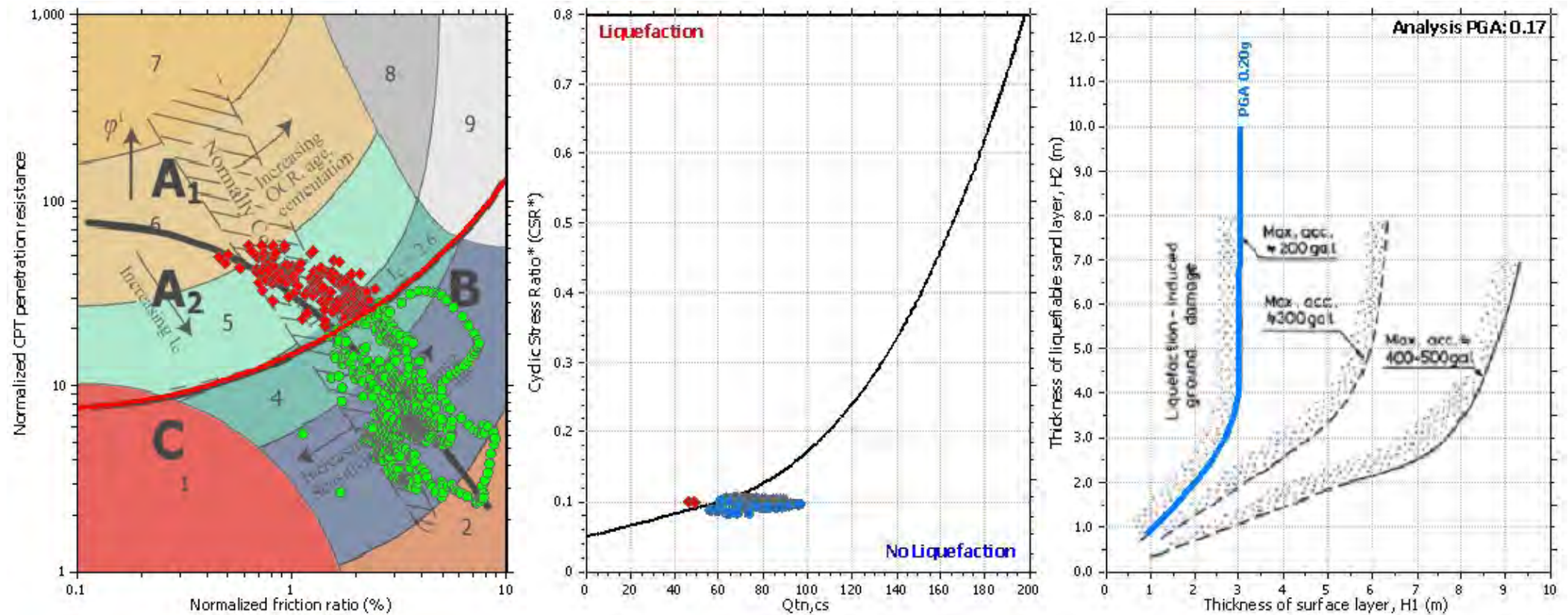
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



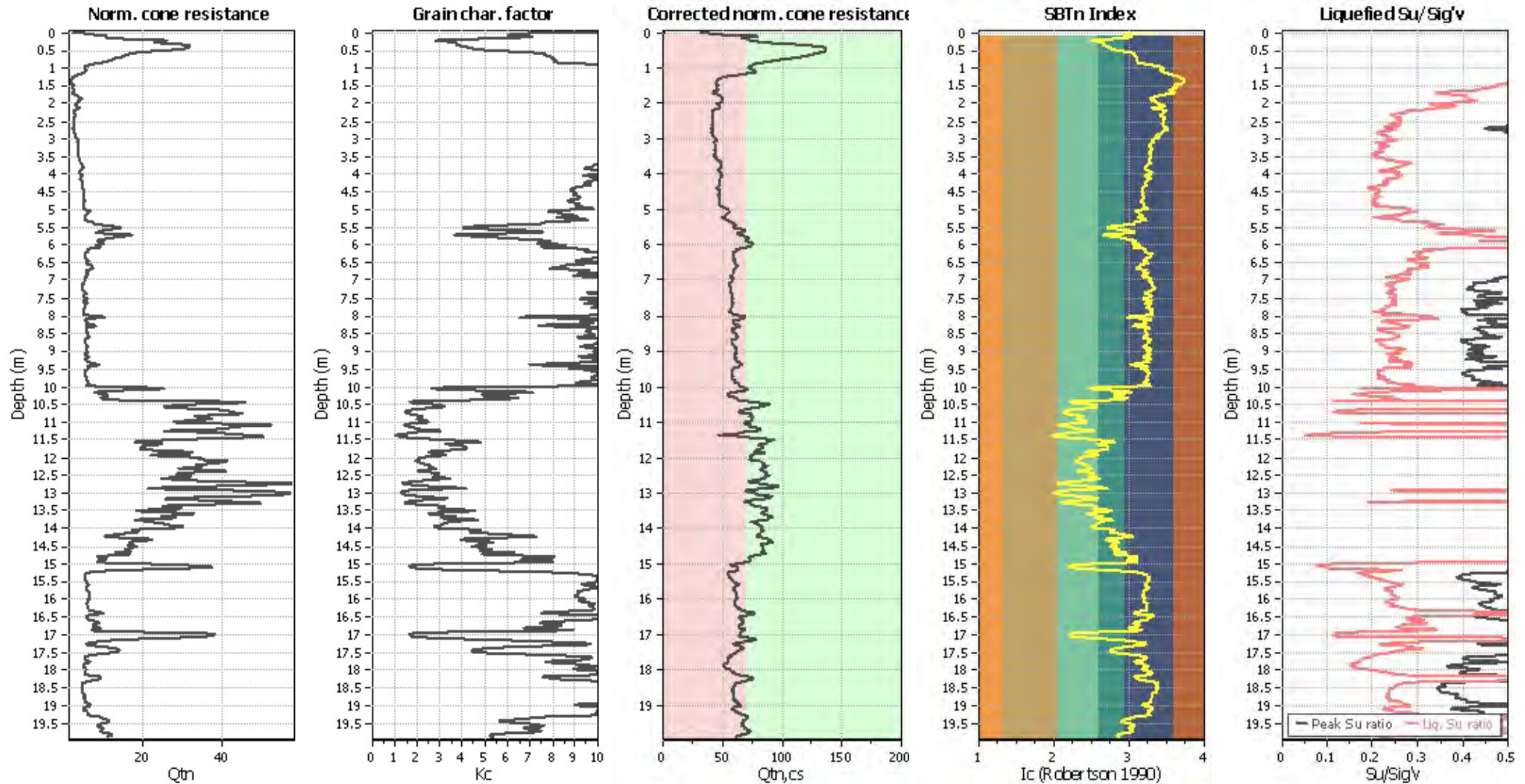
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	1.05	0.00	4.98	0.02	0.00
10.06	1.07	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	1.00	0.00	4.81	0.02	0.00	10.40	1.04	0.00	4.80	0.02	0.00
10.42	1.11	0.00	4.79	0.02	0.00	10.44	1.18	0.00	4.78	0.02	0.00
10.46	1.26	0.00	4.77	0.02	0.00	10.48	1.35	0.00	4.76	0.02	0.00
10.50	1.41	0.00	4.75	0.02	0.00	10.52	1.38	0.00	4.74	0.02	0.00
10.54	1.32	0.00	4.73	0.02	0.00	10.56	1.27	0.00	4.72	0.02	0.00
10.58	1.23	0.00	4.71	0.02	0.00	10.60	1.16	0.00	4.70	0.02	0.00
10.62	1.10	0.00	4.69	0.02	0.00	10.64	1.06	0.00	4.68	0.02	0.00
10.66	1.05	0.00	4.67	0.02	0.00	10.68	1.03	0.00	4.66	0.02	0.00
10.70	1.01	0.00	4.65	0.02	0.00	10.72	1.01	0.00	4.64	0.02	0.00
10.74	1.04	0.00	4.63	0.02	0.00	10.76	1.11	0.00	4.62	0.02	0.00
10.78	1.14	0.00	4.61	0.02	0.00	10.80	1.14	0.00	4.60	0.02	0.00
10.82	1.12	0.00	4.59	0.02	0.00	10.84	1.14	0.00	4.58	0.02	0.00
10.86	1.16	0.00	4.57	0.02	0.00	10.88	1.16	0.00	4.56	0.02	0.00
10.90	1.16	0.00	4.55	0.02	0.00	10.92	1.15	0.00	4.54	0.02	0.00
10.94	1.16	0.00	4.53	0.02	0.00	10.96	1.15	0.00	4.52	0.02	0.00
10.98	1.13	0.00	4.51	0.02	0.00	11.00	1.10	0.00	4.50	0.02	0.00
11.02	1.08	0.00	4.49	0.02	0.00	11.04	1.07	0.00	4.48	0.02	0.00
11.06	1.11	0.00	4.47	0.02	0.00	11.08	1.14	0.00	4.46	0.02	0.00
11.10	1.13	0.00	4.45	0.02	0.00	11.12	1.13	0.00	4.44	0.02	0.00
11.14	1.16	0.00	4.43	0.02	0.00	11.16	1.22	0.00	4.42	0.02	0.00
11.18	1.28	0.00	4.41	0.02	0.00	11.20	1.30	0.00	4.40	0.02	0.00
11.22	1.25	0.00	4.39	0.02	0.00	11.24	1.17	0.00	4.38	0.02	0.00
11.26	1.11	0.00	4.37	0.02	0.00	11.28	1.07	0.00	4.36	0.02	0.00
11.30	1.04	0.00	4.35	0.02	0.00	11.32	1.02	0.00	4.34	0.02	0.00
11.34	1.00	0.00	4.33	0.02	0.00	11.36	0.87	0.13	4.32	0.02	0.01
11.38	0.90	0.10	4.31	0.02	0.01	11.40	1.05	0.00	4.30	0.02	0.00
11.42	1.09	0.00	4.29	0.02	0.00	11.44	1.16	0.00	4.28	0.02	0.00
11.46	1.30	0.00	4.27	0.02	0.00	11.48	1.44	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	1.30	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	1.22	0.00	4.10	0.02	0.00
11.82	1.25	0.00	4.09	0.02	0.00	11.84	1.33	0.00	4.08	0.02	0.00
11.86	1.39	0.00	4.07	0.02	0.00	11.88	1.34	0.00	4.06	0.02	0.00
11.90	1.23	0.00	4.05	0.02	0.00	11.92	1.17	0.00	4.04	0.02	0.00
11.94	1.17	0.00	4.03	0.02	0.00	11.96	1.18	0.00	4.02	0.02	0.00
11.98	1.20	0.00	4.01	0.02	0.00	12.00	1.19	0.00	4.00	0.02	0.00
12.02	1.17	0.00	3.99	0.02	0.00	12.04	1.15	0.00	3.98	0.02	0.00
12.06	1.19	0.00	3.97	0.02	0.00	12.08	1.24	0.00	3.96	0.02	0.00
12.10	1.29	0.00	3.95	0.02	0.00	12.12	1.33	0.00	3.94	0.02	0.00
12.14	1.36	0.00	3.93	0.02	0.00	12.16	1.38	0.00	3.92	0.02	0.00
12.18	1.36	0.00	3.91	0.02	0.00	12.20	1.36	0.00	3.90	0.02	0.00
12.22	1.41	0.00	3.89	0.02	0.00	12.24	1.45	0.00	3.88	0.02	0.00
12.26	1.44	0.00	3.87	0.02	0.00	12.28	1.39	0.00	3.86	0.02	0.00
12.30	1.36	0.00	3.85	0.02	0.00	12.32	1.35	0.00	3.84	0.02	0.00
12.34	1.35	0.00	3.83	0.02	0.00	12.36	1.36	0.00	3.82	0.02	0.00
12.38	1.38	0.00	3.81	0.02	0.00	12.40	1.41	0.00	3.80	0.02	0.00
12.42	1.46	0.00	3.79	0.02	0.00	12.44	1.46	0.00	3.78	0.02	0.00
12.46	1.43	0.00	3.77	0.02	0.00	12.48	1.45	0.00	3.76	0.02	0.00
12.50	1.49	0.00	3.75	0.02	0.00	12.52	1.48	0.00	3.74	0.02	0.00
12.54	1.44	0.00	3.73	0.02	0.00	12.56	1.41	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	1.37	0.00	3.70	0.02	0.00
12.62	1.32	0.00	3.69	0.02	0.00	12.64	1.25	0.00	3.68	0.02	0.00
12.66	1.21	0.00	3.67	0.02	0.00	12.68	1.19	0.00	3.66	0.02	0.00
12.70	1.24	0.00	3.65	0.02	0.00	12.72	1.31	0.00	3.64	0.02	0.00
12.74	1.36	0.00	3.63	0.02	0.00	12.76	1.46	0.00	3.62	0.02	0.00
12.78	1.60	0.00	3.61	0.02	0.00	12.80	1.70	0.00	3.60	0.02	0.00
12.82	1.70	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	1.34	0.00	3.56	0.02	0.00
12.90	1.21	0.00	3.55	0.02	0.00	12.92	1.16	0.00	3.54	0.02	0.00
12.94	1.17	0.00	3.53	0.02	0.00	12.96	1.17	0.00	3.52	0.02	0.00
12.98	1.19	0.00	3.51	0.02	0.00	13.00	1.23	0.00	3.50	0.02	0.00
13.02	1.28	0.00	3.49	0.02	0.00	13.04	1.34	0.00	3.48	0.02	0.00
13.06	1.45	0.00	3.47	0.02	0.00	13.08	1.55	0.00	3.46	0.02	0.00
13.10	1.61	0.00	3.45	0.02	0.00	13.12	1.58	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	1.43	0.00	3.42	0.02	0.00
13.18	1.33	0.00	3.41	0.02	0.00	13.20	1.24	0.00	3.40	0.02	0.00
13.22	1.19	0.00	3.39	0.02	0.00	13.24	1.17	0.00	3.38	0.02	0.00
13.26	1.19	0.00	3.37	0.02	0.00	13.28	1.23	0.00	3.36	0.02	0.00
13.30	1.24	0.00	3.35	0.02	0.00	13.32	1.26	0.00	3.34	0.02	0.00
13.34	1.28	0.00	3.33	0.02	0.00	13.36	1.30	0.00	3.32	0.02	0.00
13.38	1.36	0.00	3.31	0.02	0.00	13.40	1.44	0.00	3.30	0.02	0.00
13.42	1.51	0.00	3.29	0.02	0.00	13.44	1.54	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	1.42	0.00	3.23	0.02	0.00	13.56	1.42	0.00	3.22	0.02	0.00
13.58	1.44	0.00	3.21	0.02	0.00	13.60	1.49	0.00	3.20	0.02	0.00
13.62	1.52	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	1.57	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	1.36	0.00	3.07	0.02	0.00	13.88	1.39	0.00	3.06	0.02	0.00
13.90	1.37	0.00	3.05	0.02	0.00	13.92	1.41	0.00	3.04	0.02	0.00
13.94	1.44	0.00	3.03	0.02	0.00	13.96	1.45	0.00	3.02	0.02	0.00
13.98	1.45	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	2.00	0.00	2.97	0.02	0.00	14.08	2.00	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	2.00	0.00	2.73	0.02	0.00	14.56	2.00	0.00	2.72	0.02	0.00
14.58	2.00	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	1.13	0.00	2.50	0.02	0.00
15.02	1.10	0.00	2.49	0.02	0.00	15.04	1.11	0.00	2.48	0.02	0.00
15.06	1.13	0.00	2.47	0.02	0.00	15.08	1.16	0.00	2.46	0.02	0.00
15.10	1.16	0.00	2.45	0.02	0.00	15.12	1.16	0.00	2.44	0.02	0.00
15.14	1.16	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	2.00	0.00	1.73	0.02	0.00	16.56	2.00	0.00	1.72	0.02	0.00
16.58	2.00	0.00	1.71	0.02	0.00	16.60	2.00	0.00	1.70	0.02	0.00
16.62	2.00	0.00	1.69	0.02	0.00	16.64	2.00	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	2.00	0.00	1.63	0.02	0.00	16.76	2.00	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	1.27	0.00	1.54	0.02	0.00
16.94	1.26	0.00	1.53	0.02	0.00	16.96	1.26	0.00	1.52	0.02	0.00
16.98	1.26	0.00	1.51	0.02	0.00	17.00	1.25	0.00	1.50	0.02	0.00
17.02	1.25	0.00	1.49	0.02	0.00	17.04	1.27	0.00	1.48	0.02	0.00
17.06	1.33	0.00	1.47	0.02	0.00	17.08	1.41	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00

**Overall liquefaction potential: 0.02**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

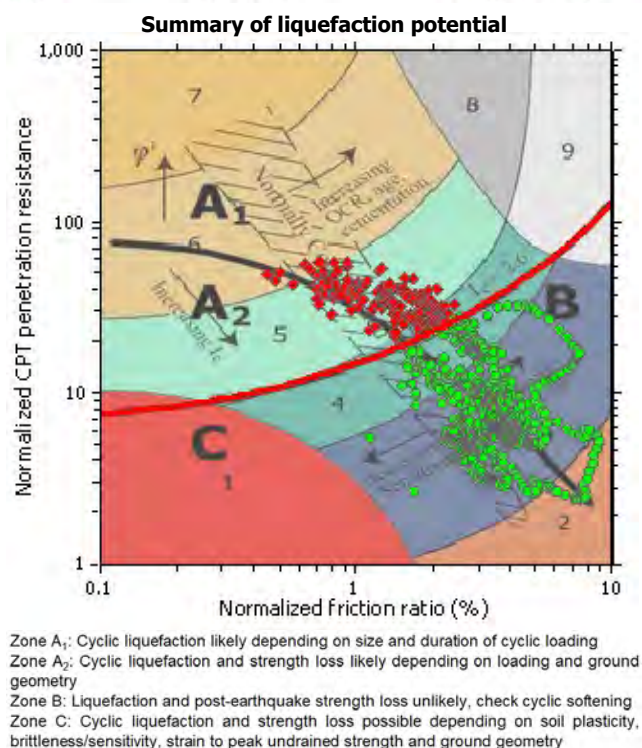
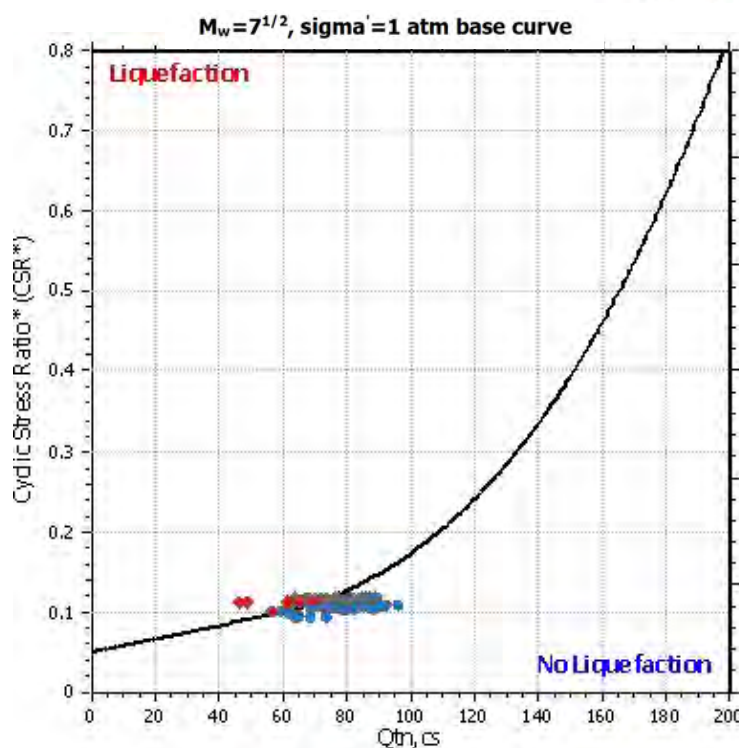
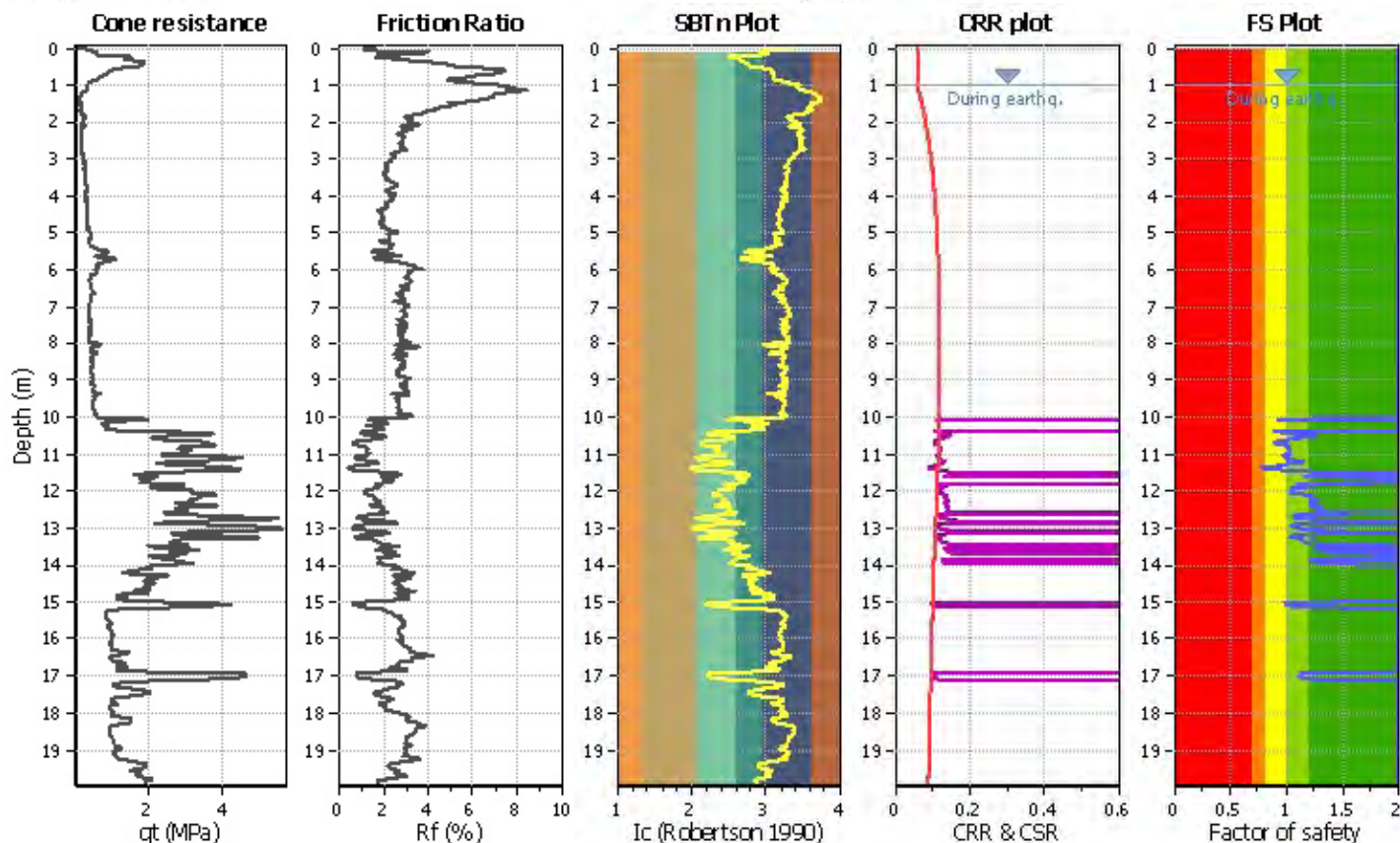
**Project title :**

**Location :**

**CPT file : CPTU3**

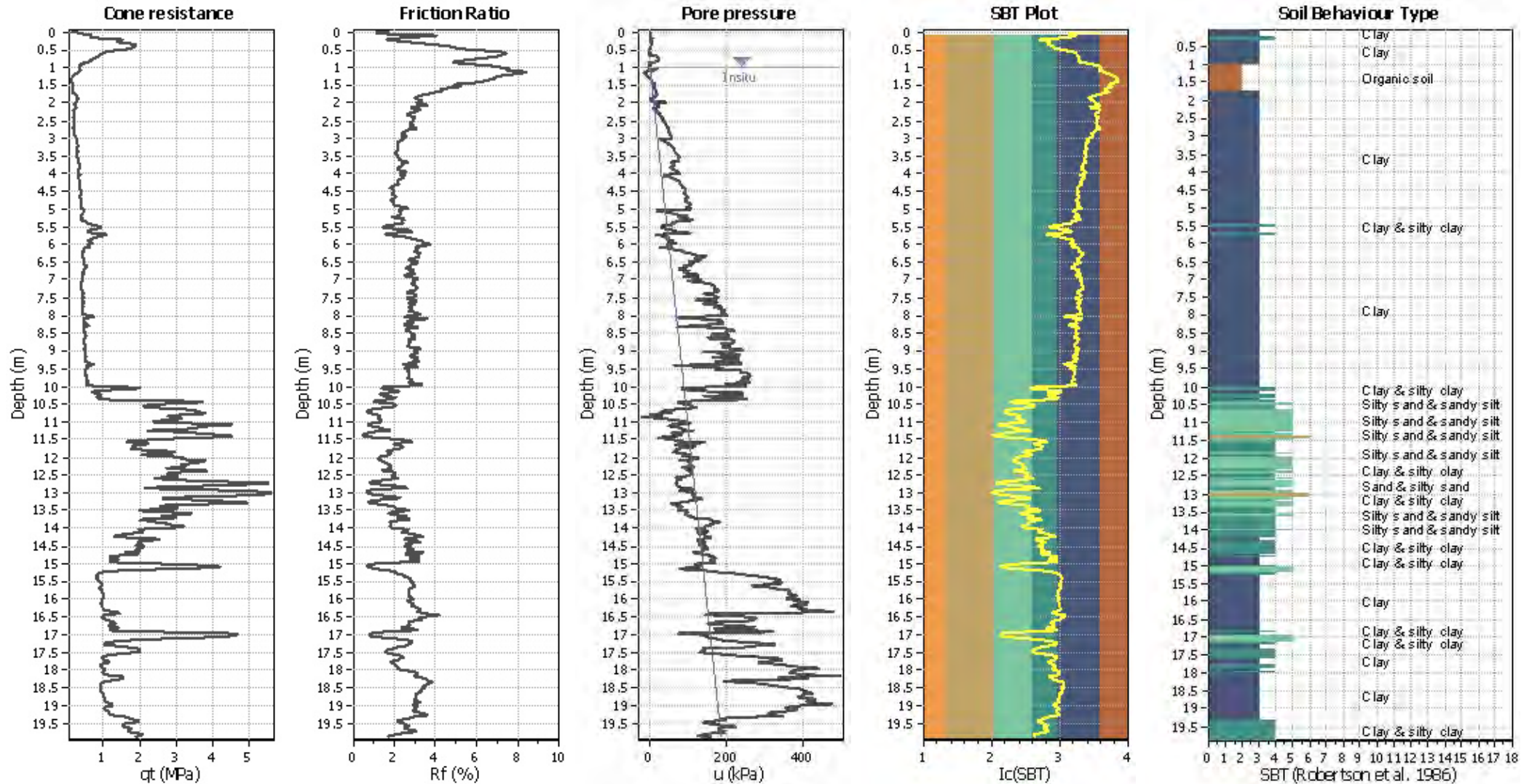
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	5.75	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



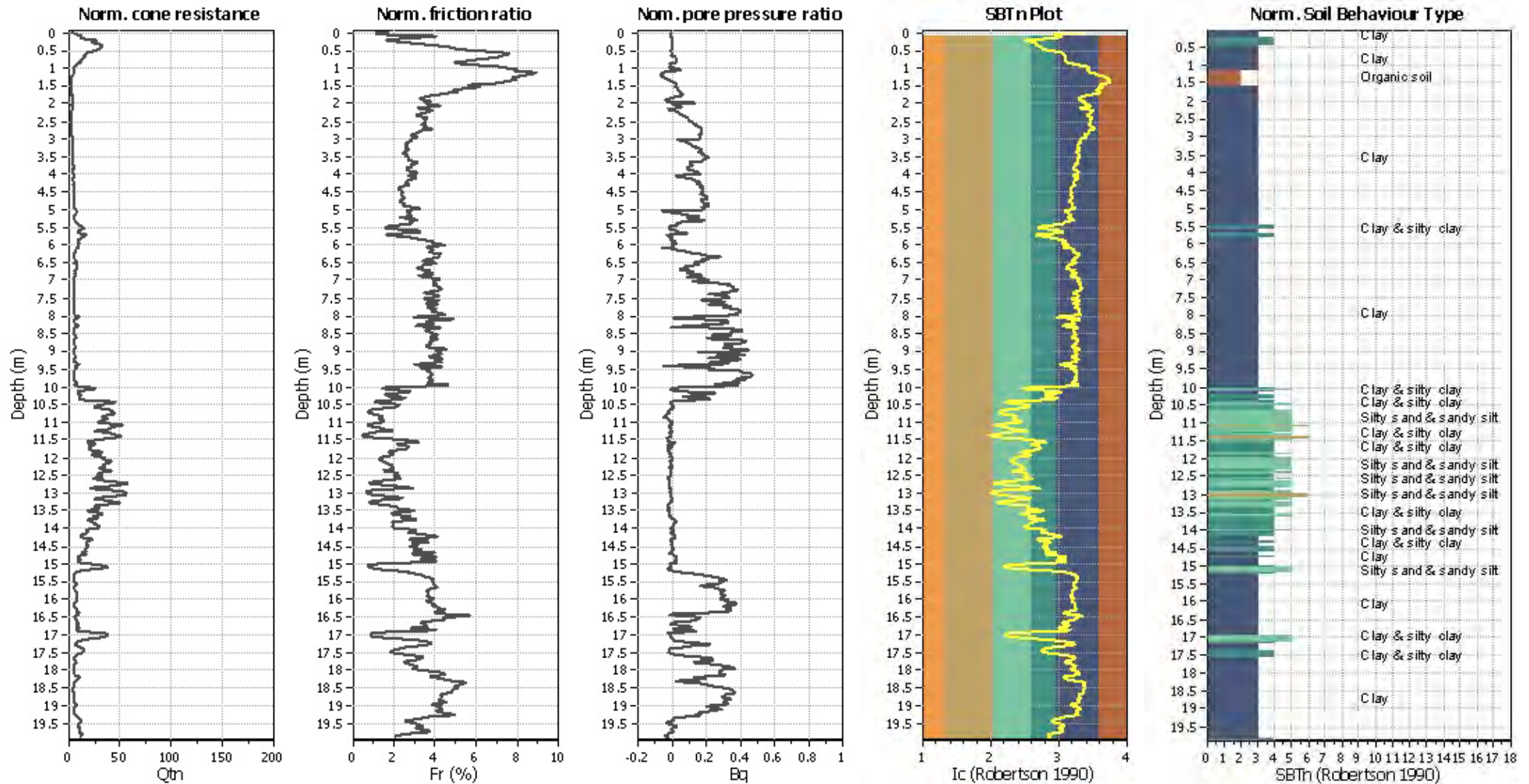
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

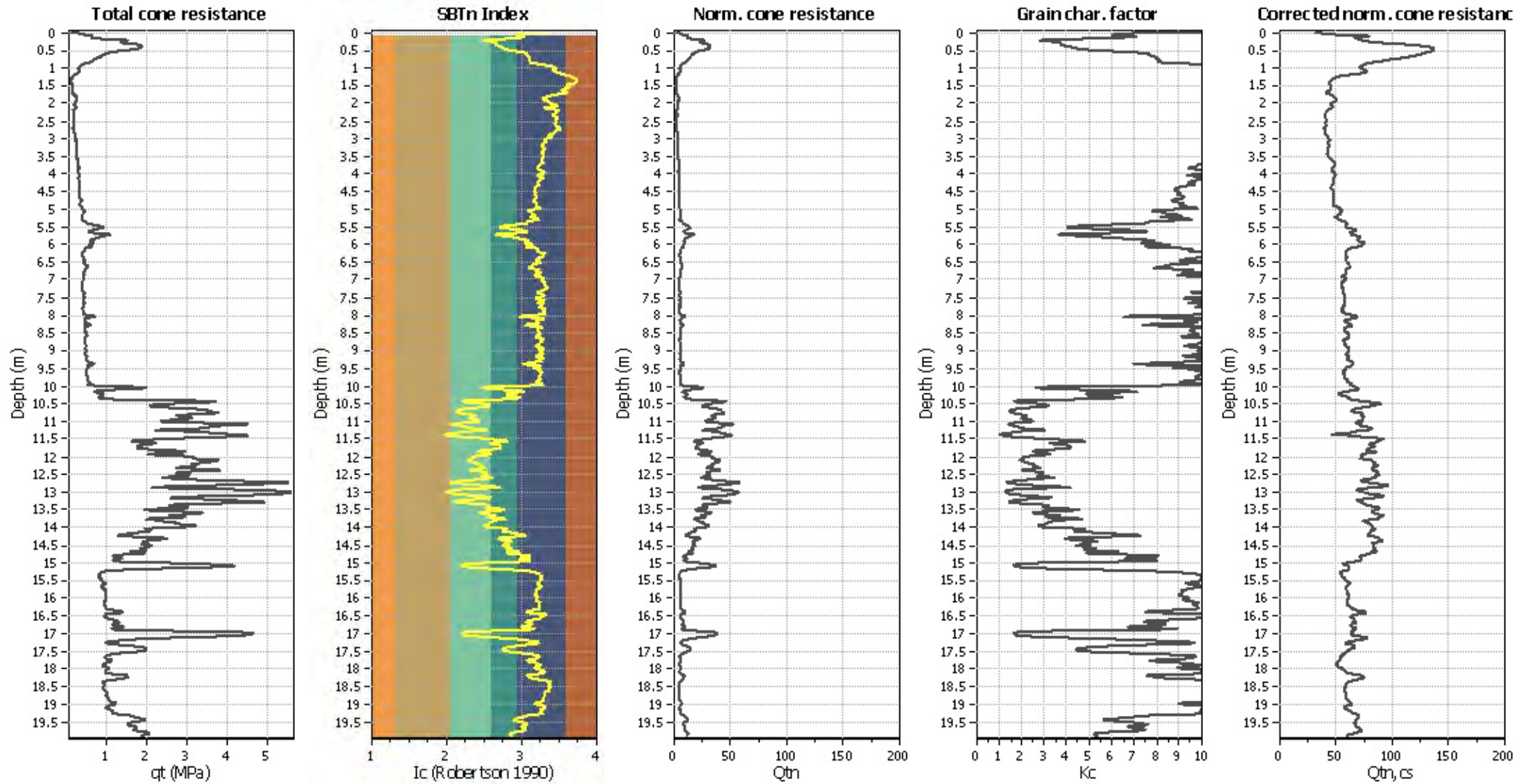
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



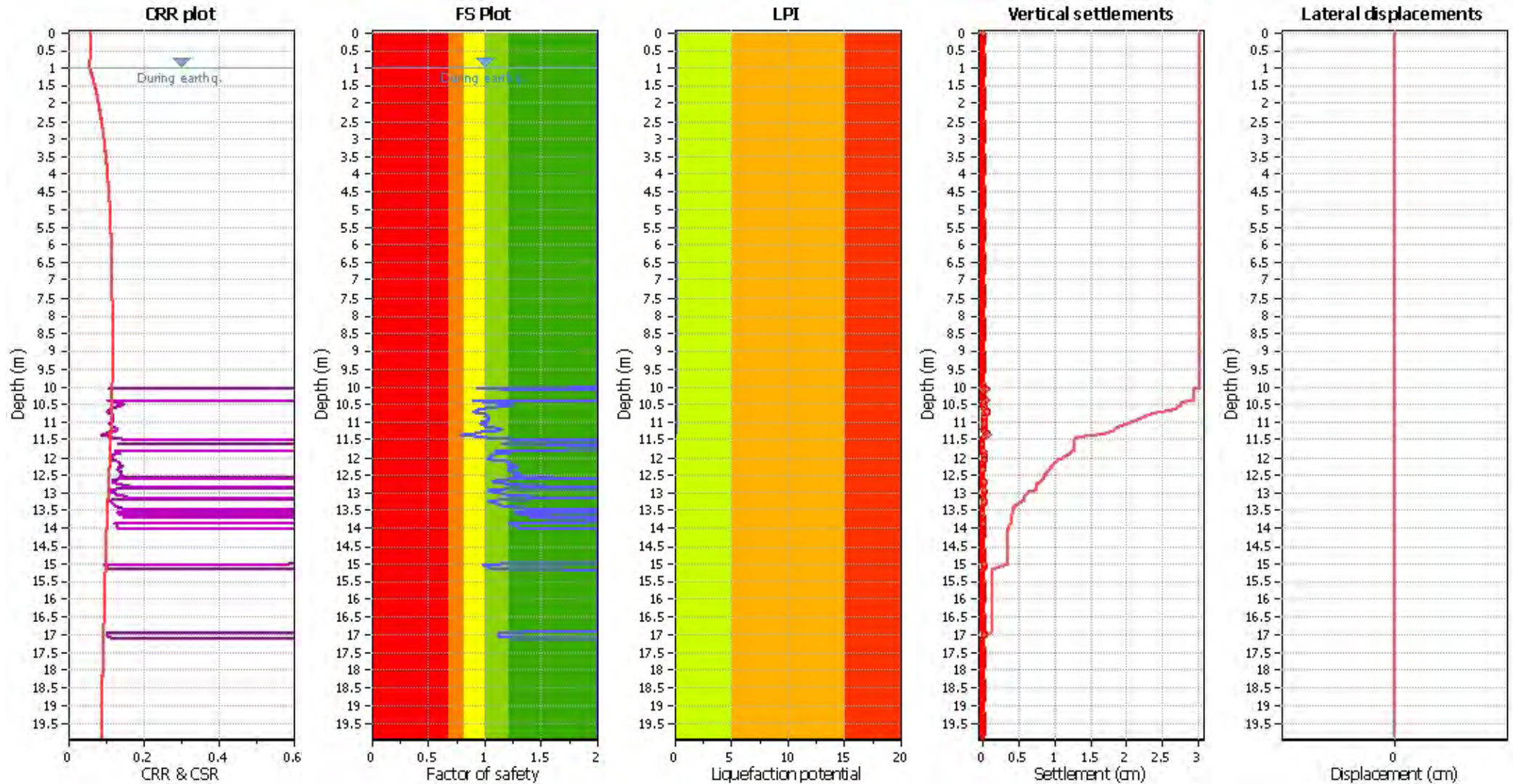
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\sigma}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

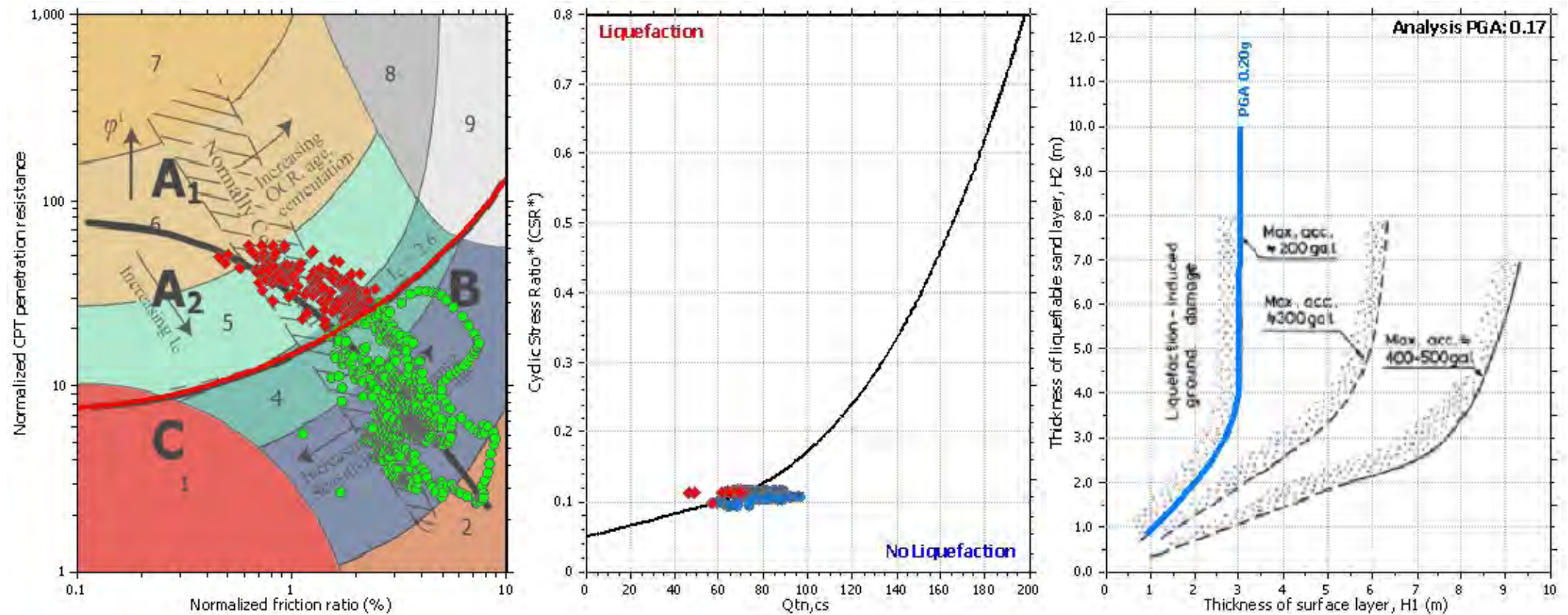
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



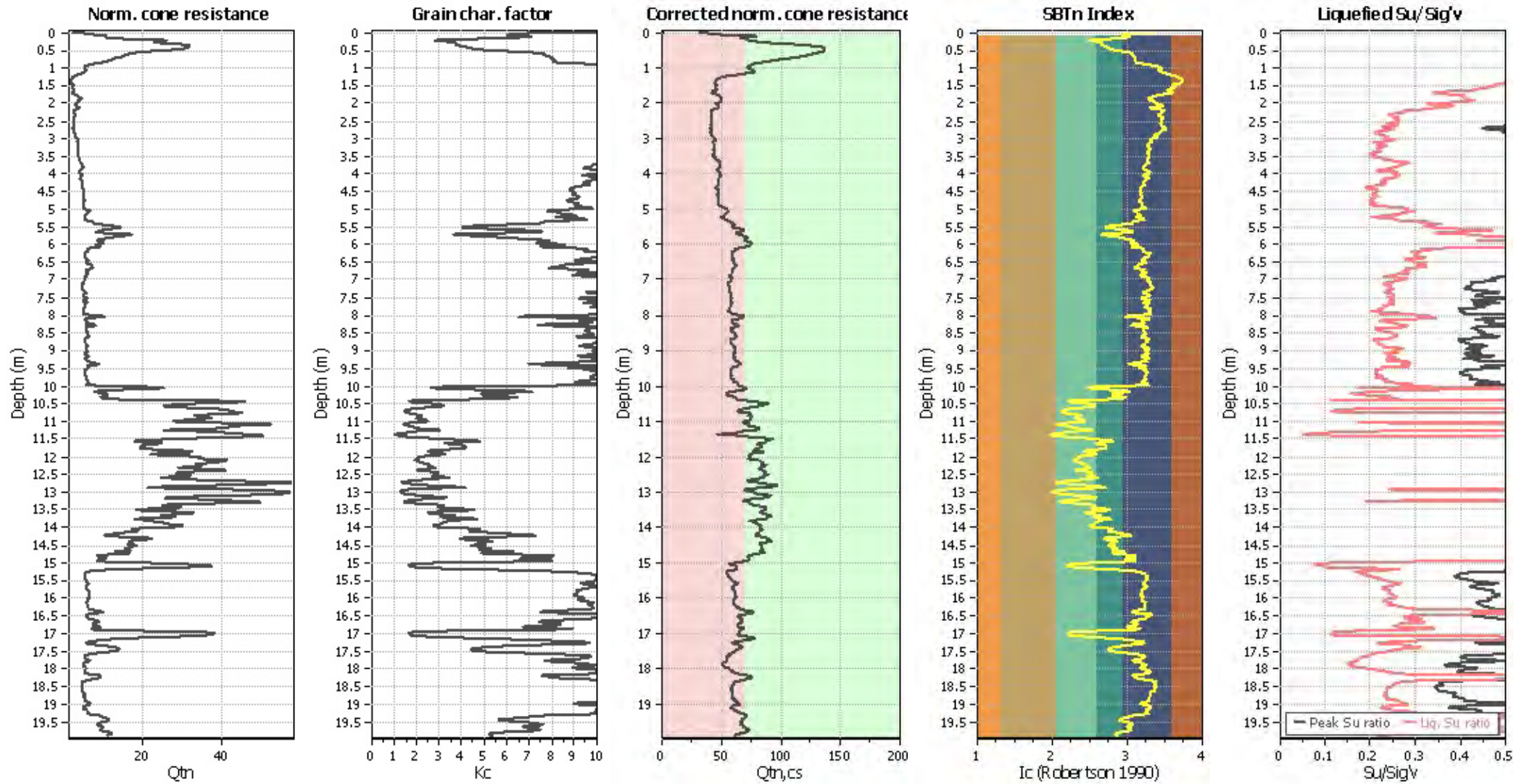
## Liquefaction analysis summary plo



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	0.93	0.07	4.98	0.02	0.01
10.06	0.95	0.05	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	0.89	0.11	4.81	0.02	0.01	10.40	0.93	0.07	4.80	0.02	0.01
10.42	0.99	0.01	4.79	0.02	0.00	10.44	1.05	0.00	4.78	0.02	0.00
10.46	1.12	0.00	4.77	0.02	0.00	10.48	1.20	0.00	4.76	0.02	0.00
10.50	1.26	0.00	4.75	0.02	0.00	10.52	1.23	0.00	4.74	0.02	0.00
10.54	1.18	0.00	4.73	0.02	0.00	10.56	1.14	0.00	4.72	0.02	0.00
10.58	1.10	0.00	4.71	0.02	0.00	10.60	1.04	0.00	4.70	0.02	0.00
10.62	0.98	0.02	4.69	0.02	0.00	10.64	0.95	0.05	4.68	0.02	0.00
10.66	0.93	0.07	4.67	0.02	0.01	10.68	0.92	0.08	4.66	0.02	0.01
10.70	0.90	0.10	4.65	0.02	0.01	10.72	0.90	0.10	4.64	0.02	0.01
10.74	0.93	0.07	4.63	0.02	0.01	10.76	0.99	0.01	4.62	0.02	0.00
10.78	1.02	0.00	4.61	0.02	0.00	10.80	1.02	0.00	4.60	0.02	0.00
10.82	1.00	0.00	4.59	0.02	0.00	10.84	1.02	0.00	4.58	0.02	0.00
10.86	1.04	0.00	4.57	0.02	0.00	10.88	1.04	0.00	4.56	0.02	0.00
10.90	1.03	0.00	4.55	0.02	0.00	10.92	1.03	0.00	4.54	0.02	0.00
10.94	1.03	0.00	4.53	0.02	0.00	10.96	1.03	0.00	4.52	0.02	0.00
10.98	1.01	0.00	4.51	0.02	0.00	11.00	0.98	0.02	4.50	0.02	0.00
11.02	0.96	0.04	4.49	0.02	0.00	11.04	0.96	0.04	4.48	0.02	0.00
11.06	0.99	0.01	4.47	0.02	0.00	11.08	1.01	0.00	4.46	0.02	0.00
11.10	1.01	0.00	4.45	0.02	0.00	11.12	1.01	0.00	4.44	0.02	0.00
11.14	1.03	0.00	4.43	0.02	0.00	11.16	1.09	0.00	4.42	0.02	0.00
11.18	1.14	0.00	4.41	0.02	0.00	11.20	1.16	0.00	4.40	0.02	0.00
11.22	1.11	0.00	4.39	0.02	0.00	11.24	1.04	0.00	4.38	0.02	0.00
11.26	0.99	0.01	4.37	0.02	0.00	11.28	0.96	0.04	4.36	0.02	0.00
11.30	0.93	0.07	4.35	0.02	0.01	11.32	0.91	0.09	4.34	0.02	0.01
11.34	0.90	0.10	4.33	0.02	0.01	11.36	0.78	0.22	4.32	0.02	0.02
11.38	0.80	0.20	4.31	0.02	0.02	11.40	0.94	0.06	4.30	0.02	0.01
11.42	0.98	0.02	4.29	0.02	0.00	11.44	1.04	0.00	4.28	0.02	0.00
11.46	1.16	0.00	4.27	0.02	0.00	11.48	1.29	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	1.16	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	1.09	0.00	4.10	0.02	0.00
11.82	1.12	0.00	4.09	0.02	0.00	11.84	1.19	0.00	4.08	0.02	0.00
11.86	1.24	0.00	4.07	0.02	0.00	11.88	1.19	0.00	4.06	0.02	0.00
11.90	1.10	0.00	4.05	0.02	0.00	11.92	1.05	0.00	4.04	0.02	0.00
11.94	1.05	0.00	4.03	0.02	0.00	11.96	1.05	0.00	4.02	0.02	0.00
11.98	1.07	0.00	4.01	0.02	0.00	12.00	1.06	0.00	4.00	0.02	0.00
12.02	1.04	0.00	3.99	0.02	0.00	12.04	1.03	0.00	3.98	0.02	0.00
12.06	1.06	0.00	3.97	0.02	0.00	12.08	1.11	0.00	3.96	0.02	0.00
12.10	1.15	0.00	3.95	0.02	0.00	12.12	1.19	0.00	3.94	0.02	0.00
12.14	1.22	0.00	3.93	0.02	0.00	12.16	1.23	0.00	3.92	0.02	0.00
12.18	1.21	0.00	3.91	0.02	0.00	12.20	1.21	0.00	3.90	0.02	0.00
12.22	1.26	0.00	3.89	0.02	0.00	12.24	1.29	0.00	3.88	0.02	0.00
12.26	1.29	0.00	3.87	0.02	0.00	12.28	1.24	0.00	3.86	0.02	0.00
12.30	1.21	0.00	3.85	0.02	0.00	12.32	1.20	0.00	3.84	0.02	0.00
12.34	1.20	0.00	3.83	0.02	0.00	12.36	1.21	0.00	3.82	0.02	0.00
12.38	1.23	0.00	3.81	0.02	0.00	12.40	1.26	0.00	3.80	0.02	0.00
12.42	1.30	0.00	3.79	0.02	0.00	12.44	1.30	0.00	3.78	0.02	0.00
12.46	1.27	0.00	3.77	0.02	0.00	12.48	1.29	0.00	3.76	0.02	0.00
12.50	1.33	0.00	3.75	0.02	0.00	12.52	1.32	0.00	3.74	0.02	0.00
12.54	1.28	0.00	3.73	0.02	0.00	12.56	1.26	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	1.23	0.00	3.70	0.02	0.00
12.62	1.18	0.00	3.69	0.02	0.00	12.64	1.12	0.00	3.68	0.02	0.00
12.66	1.08	0.00	3.67	0.02	0.00	12.68	1.06	0.00	3.66	0.02	0.00
12.70	1.10	0.00	3.65	0.02	0.00	12.72	1.16	0.00	3.64	0.02	0.00
12.74	1.22	0.00	3.63	0.02	0.00	12.76	1.30	0.00	3.62	0.02	0.00
12.78	1.43	0.00	3.61	0.02	0.00	12.80	1.51	0.00	3.60	0.02	0.00
12.82	1.52	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	1.19	0.00	3.56	0.02	0.00
12.90	1.08	0.00	3.55	0.02	0.00	12.92	1.04	0.00	3.54	0.02	0.00
12.94	1.04	0.00	3.53	0.02	0.00	12.96	1.04	0.00	3.52	0.02	0.00
12.98	1.06	0.00	3.51	0.02	0.00	13.00	1.10	0.00	3.50	0.02	0.00
13.02	1.14	0.00	3.49	0.02	0.00	13.04	1.20	0.00	3.48	0.02	0.00
13.06	1.29	0.00	3.47	0.02	0.00	13.08	1.38	0.00	3.46	0.02	0.00
13.10	1.43	0.00	3.45	0.02	0.00	13.12	1.41	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	1.27	0.00	3.42	0.02	0.00
13.18	1.18	0.00	3.41	0.02	0.00	13.20	1.10	0.00	3.40	0.02	0.00
13.22	1.06	0.00	3.39	0.02	0.00	13.24	1.04	0.00	3.38	0.02	0.00
13.26	1.06	0.00	3.37	0.02	0.00	13.28	1.10	0.00	3.36	0.02	0.00
13.30	1.11	0.00	3.35	0.02	0.00	13.32	1.13	0.00	3.34	0.02	0.00
13.34	1.14	0.00	3.33	0.02	0.00	13.36	1.16	0.00	3.32	0.02	0.00
13.38	1.21	0.00	3.31	0.02	0.00	13.40	1.29	0.00	3.30	0.02	0.00
13.42	1.35	0.00	3.29	0.02	0.00	13.44	1.38	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	1.27	0.00	3.23	0.02	0.00	13.56	1.26	0.00	3.22	0.02	0.00
13.58	1.29	0.00	3.21	0.02	0.00	13.60	1.33	0.00	3.20	0.02	0.00
13.62	1.36	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	1.40	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	1.22	0.00	3.07	0.02	0.00	13.88	1.24	0.00	3.06	0.02	0.00
13.90	1.22	0.00	3.05	0.02	0.00	13.92	1.26	0.00	3.04	0.02	0.00
13.94	1.28	0.00	3.03	0.02	0.00	13.96	1.30	0.00	3.02	0.02	0.00
13.98	1.29	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	2.00	0.00	2.97	0.02	0.00	14.08	2.00	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	2.00	0.00	2.73	0.02	0.00	14.56	2.00	0.00	2.72	0.02	0.00
14.58	2.00	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	1.01	0.00	2.50	0.02	0.00
15.02	0.98	0.02	2.49	0.02	0.00	15.04	0.99	0.01	2.48	0.02	0.00
15.06	1.01	0.00	2.47	0.02	0.00	15.08	1.04	0.00	2.46	0.02	0.00
15.10	1.04	0.00	2.45	0.02	0.00	15.12	1.04	0.00	2.44	0.02	0.00
15.14	1.04	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	2.00	0.00	1.73	0.02	0.00	16.56	2.00	0.00	1.72	0.02	0.00
16.58	2.00	0.00	1.71	0.02	0.00	16.60	2.00	0.00	1.70	0.02	0.00
16.62	2.00	0.00	1.69	0.02	0.00	16.64	2.00	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	2.00	0.00	1.63	0.02	0.00	16.76	2.00	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	1.13	0.00	1.54	0.02	0.00
16.94	1.12	0.00	1.53	0.02	0.00	16.96	1.13	0.00	1.52	0.02	0.00
16.98	1.12	0.00	1.51	0.02	0.00	17.00	1.11	0.00	1.50	0.02	0.00
17.02	1.11	0.00	1.49	0.02	0.00	17.04	1.13	0.00	1.48	0.02	0.00
17.06	1.18	0.00	1.47	0.02	0.00	17.08	1.26	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00

**Overall liquefaction potential: 0.16**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

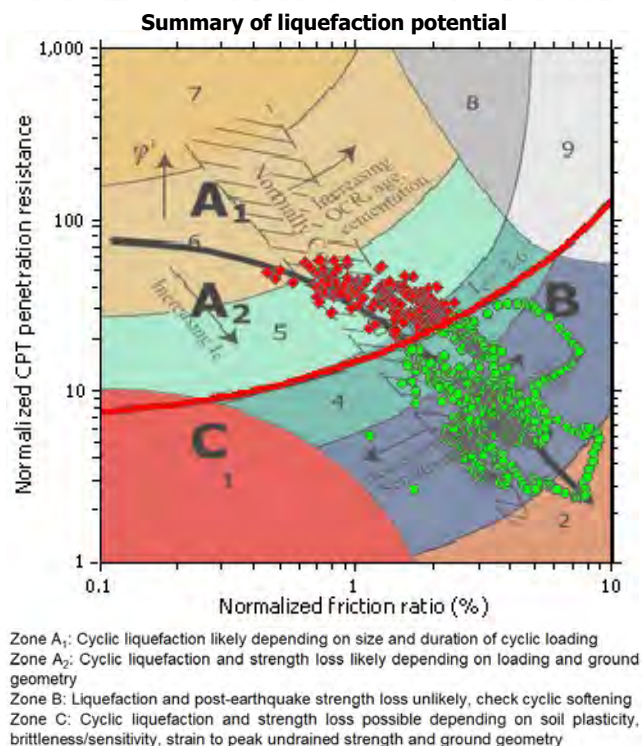
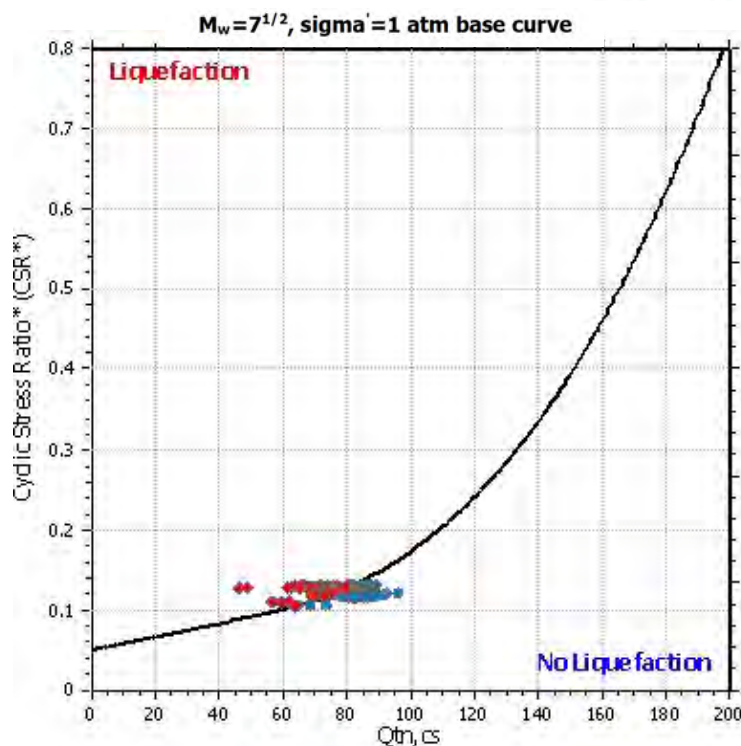
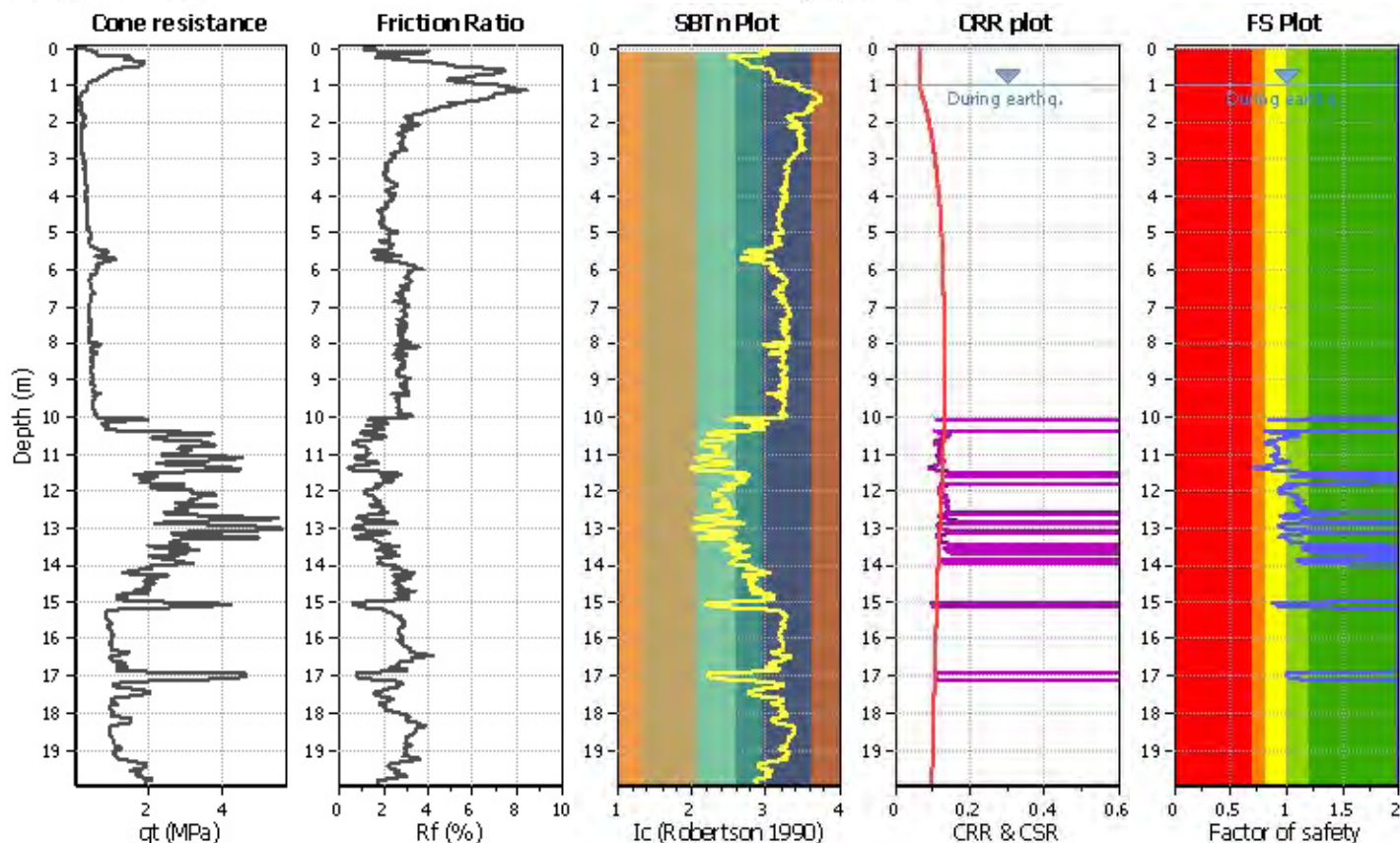
**Project title :**

**Location :**

**CPT file : CPTU3**

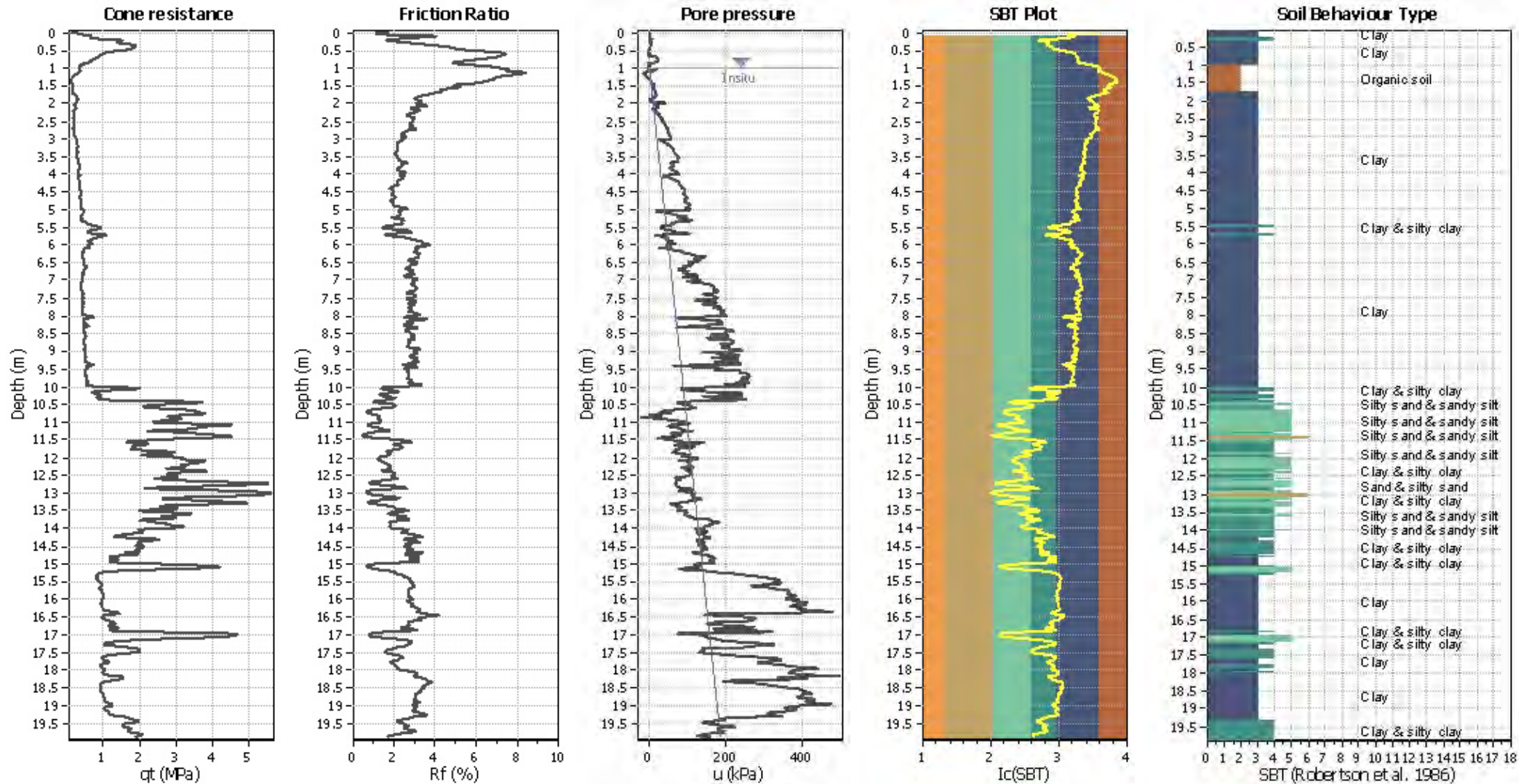
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	6.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



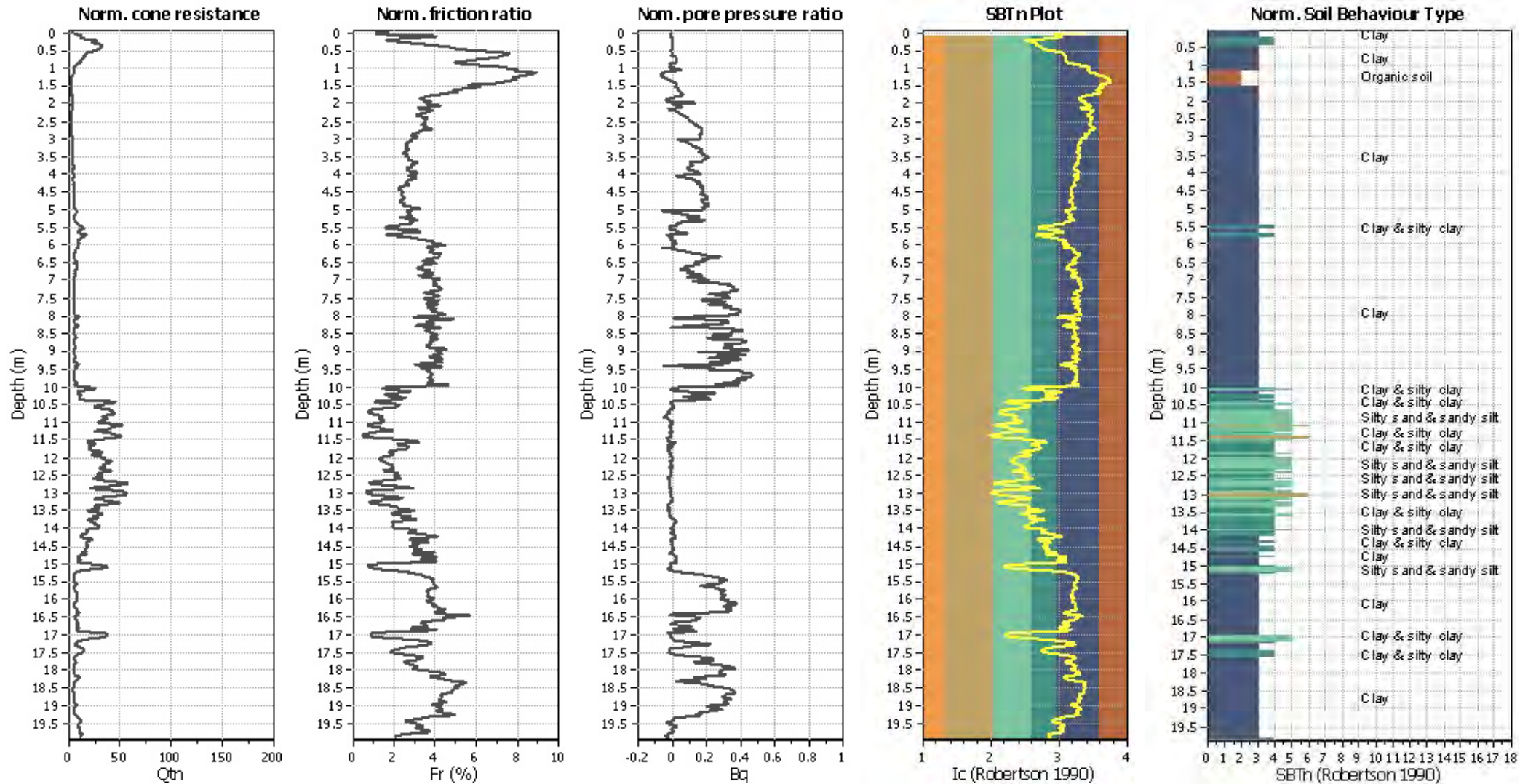
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

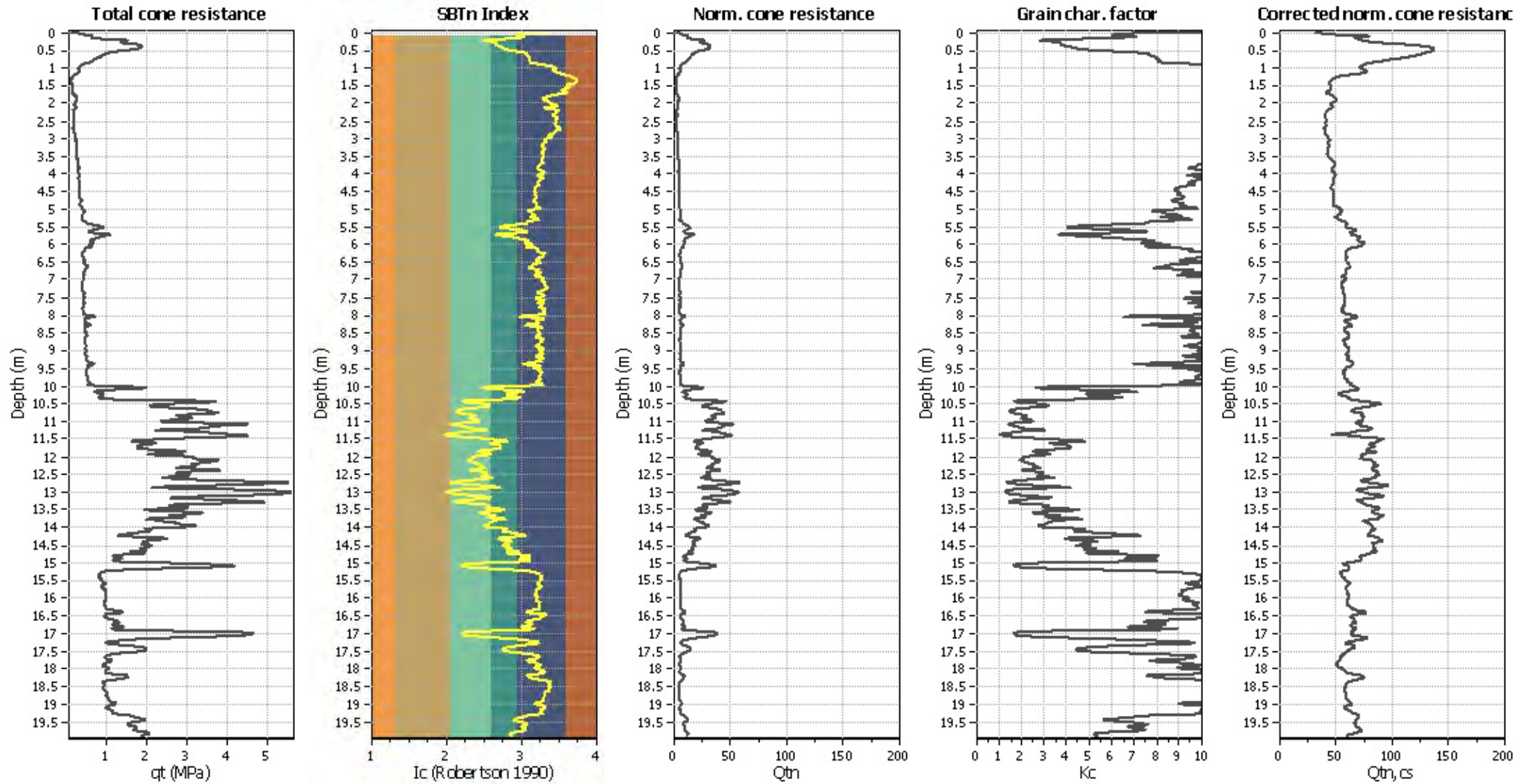
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



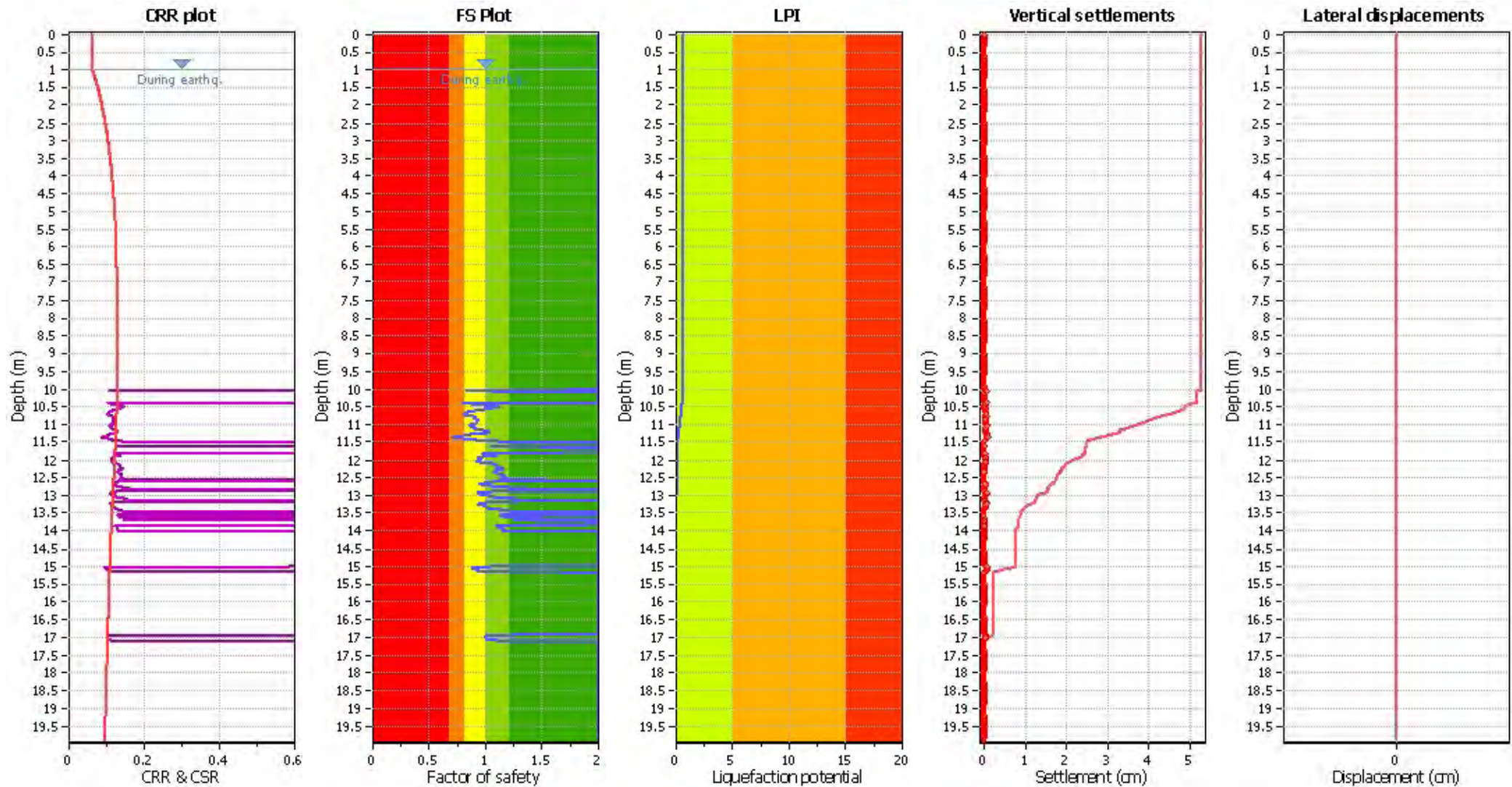
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{cs}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

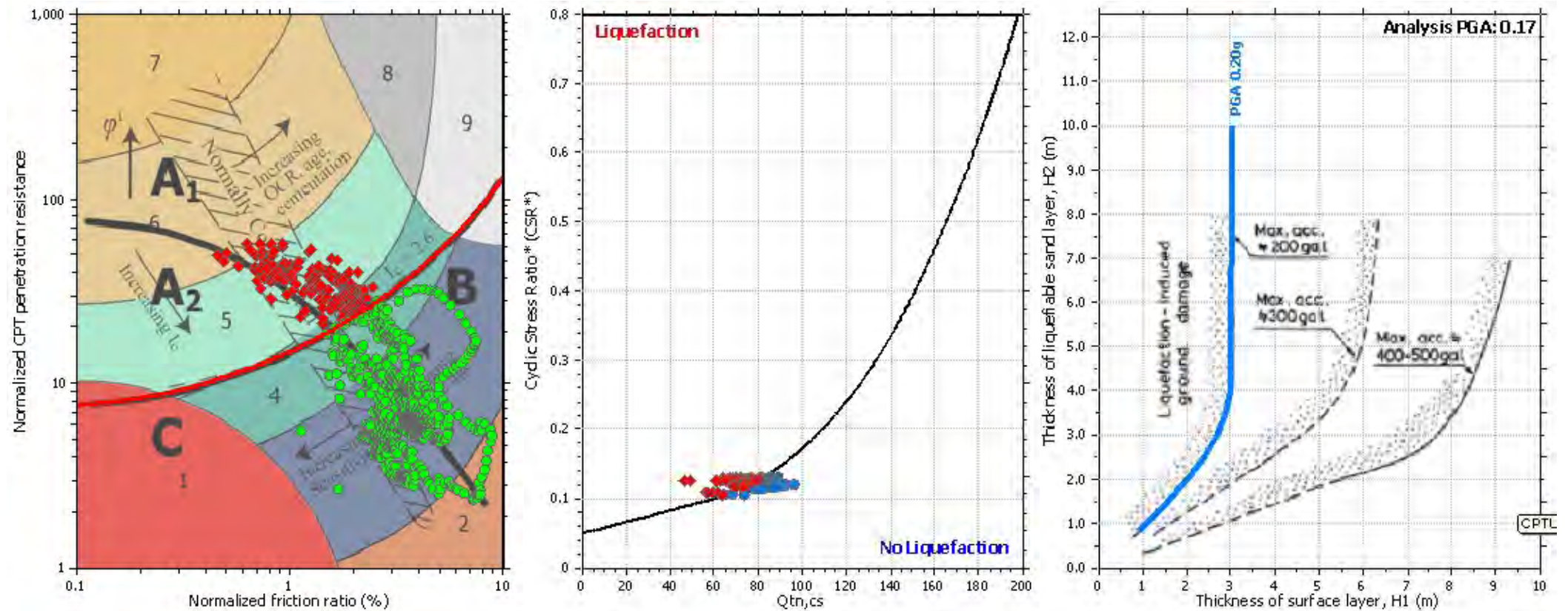
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



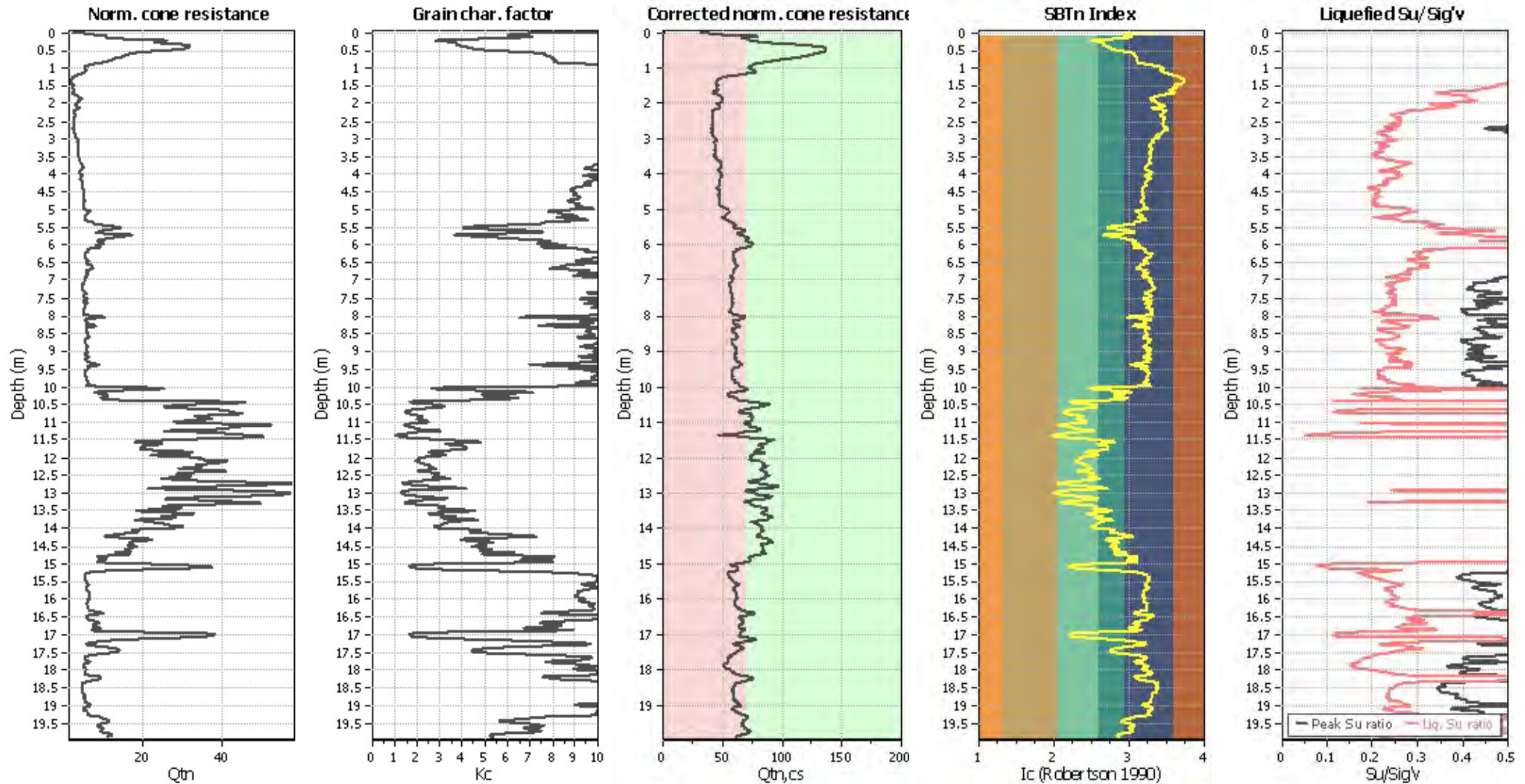
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	0.84	0.16	4.98	0.02	0.02
10.06	0.86	0.14	4.97	0.02	0.01	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	0.80	0.20	4.81	0.02	0.02	10.40	0.83	0.17	4.80	0.02	0.02
10.42	0.88	0.12	4.79	0.02	0.01	10.44	0.94	0.06	4.78	0.02	0.01
10.46	1.01	0.00	4.77	0.02	0.00	10.48	1.08	0.00	4.76	0.02	0.00
10.50	1.13	0.00	4.75	0.02	0.00	10.52	1.10	0.00	4.74	0.02	0.00
10.54	1.06	0.00	4.73	0.02	0.00	10.56	1.02	0.00	4.72	0.02	0.00
10.58	0.99	0.01	4.71	0.02	0.00	10.60	0.93	0.07	4.70	0.02	0.01
10.62	0.88	0.12	4.69	0.02	0.01	10.64	0.85	0.15	4.68	0.02	0.01
10.66	0.84	0.16	4.67	0.02	0.02	10.68	0.82	0.18	4.66	0.02	0.02
10.70	0.81	0.19	4.65	0.02	0.02	10.72	0.81	0.19	4.64	0.02	0.02
10.74	0.83	0.17	4.63	0.02	0.02	10.76	0.89	0.11	4.62	0.02	0.01
10.78	0.91	0.09	4.61	0.02	0.01	10.80	0.91	0.09	4.60	0.02	0.01
10.82	0.90	0.10	4.59	0.02	0.01	10.84	0.91	0.09	4.58	0.02	0.01
10.86	0.93	0.07	4.57	0.02	0.01	10.88	0.93	0.07	4.56	0.02	0.01
10.90	0.93	0.07	4.55	0.02	0.01	10.92	0.92	0.08	4.54	0.02	0.01
10.94	0.93	0.07	4.53	0.02	0.01	10.96	0.92	0.08	4.52	0.02	0.01
10.98	0.90	0.10	4.51	0.02	0.01	11.00	0.88	0.12	4.50	0.02	0.01
11.02	0.86	0.14	4.49	0.02	0.01	11.04	0.86	0.14	4.48	0.02	0.01
11.06	0.89	0.11	4.47	0.02	0.01	11.08	0.91	0.09	4.46	0.02	0.01
11.10	0.90	0.10	4.45	0.02	0.01	11.12	0.90	0.10	4.44	0.02	0.01
11.14	0.93	0.07	4.43	0.02	0.01	11.16	0.98	0.02	4.42	0.02	0.00
11.18	1.03	0.00	4.41	0.02	0.00	11.20	1.04	0.00	4.40	0.02	0.00
11.22	1.00	0.00	4.39	0.02	0.00	11.24	0.94	0.06	4.38	0.02	0.01
11.26	0.89	0.11	4.37	0.02	0.01	11.28	0.86	0.14	4.36	0.02	0.01
11.30	0.83	0.17	4.35	0.02	0.01	11.32	0.81	0.19	4.34	0.02	0.02
11.34	0.80	0.20	4.33	0.02	0.02	11.36	0.70	0.30	4.32	0.02	0.03
11.38	0.72	0.28	4.31	0.02	0.02	11.40	0.84	0.16	4.30	0.02	0.01
11.42	0.88	0.12	4.29	0.02	0.01	11.44	0.93	0.07	4.28	0.02	0.01
11.46	1.04	0.00	4.27	0.02	0.00	11.48	1.15	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	1.04	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	0.98	0.02	4.10	0.02	0.00
11.82	1.00	0.00	4.09	0.02	0.00	11.84	1.07	0.00	4.08	0.02	0.00
11.86	1.11	0.00	4.07	0.02	0.00	11.88	1.07	0.00	4.06	0.02	0.00
11.90	0.99	0.01	4.05	0.02	0.00	11.92	0.94	0.06	4.04	0.02	0.00
11.94	0.94	0.06	4.03	0.02	0.00	11.96	0.94	0.06	4.02	0.02	0.00
11.98	0.96	0.04	4.01	0.02	0.00	12.00	0.95	0.05	4.00	0.02	0.00
12.02	0.94	0.06	3.99	0.02	0.01	12.04	0.92	0.08	3.98	0.02	0.01
12.06	0.95	0.05	3.97	0.02	0.00	12.08	0.99	0.01	3.96	0.02	0.00
12.10	1.03	0.00	3.95	0.02	0.00	12.12	1.07	0.00	3.94	0.02	0.00
12.14	1.09	0.00	3.93	0.02	0.00	12.16	1.10	0.00	3.92	0.02	0.00
12.18	1.09	0.00	3.91	0.02	0.00	12.20	1.08	0.00	3.90	0.02	0.00
12.22	1.13	0.00	3.89	0.02	0.00	12.24	1.16	0.00	3.88	0.02	0.00
12.26	1.16	0.00	3.87	0.02	0.00	12.28	1.11	0.00	3.86	0.02	0.00
12.30	1.09	0.00	3.85	0.02	0.00	12.32	1.08	0.00	3.84	0.02	0.00
12.34	1.08	0.00	3.83	0.02	0.00	12.36	1.09	0.00	3.82	0.02	0.00
12.38	1.11	0.00	3.81	0.02	0.00	12.40	1.13	0.00	3.80	0.02	0.00
12.42	1.17	0.00	3.79	0.02	0.00	12.44	1.17	0.00	3.78	0.02	0.00
12.46	1.14	0.00	3.77	0.02	0.00	12.48	1.16	0.00	3.76	0.02	0.00
12.50	1.19	0.00	3.75	0.02	0.00	12.52	1.18	0.00	3.74	0.02	0.00
12.54	1.15	0.00	3.73	0.02	0.00	12.56	1.13	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	1.10	0.00	3.70	0.02	0.00
12.62	1.06	0.00	3.69	0.02	0.00	12.64	1.00	0.00	3.68	0.02	0.00
12.66	0.97	0.03	3.67	0.02	0.00	12.68	0.95	0.05	3.66	0.02	0.00
12.70	0.99	0.01	3.65	0.02	0.00	12.72	1.04	0.00	3.64	0.02	0.00
12.74	1.09	0.00	3.63	0.02	0.00	12.76	1.17	0.00	3.62	0.02	0.00
12.78	1.28	0.00	3.61	0.02	0.00	12.80	1.36	0.00	3.60	0.02	0.00
12.82	1.36	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	1.07	0.00	3.56	0.02	0.00
12.90	0.97	0.03	3.55	0.02	0.00	12.92	0.93	0.07	3.54	0.02	0.00
12.94	0.93	0.07	3.53	0.02	0.00	12.96	0.94	0.06	3.52	0.02	0.00
12.98	0.95	0.05	3.51	0.02	0.00	13.00	0.98	0.02	3.50	0.02	0.00
13.02	1.02	0.00	3.49	0.02	0.00	13.04	1.07	0.00	3.48	0.02	0.00
13.06	1.16	0.00	3.47	0.02	0.00	13.08	1.24	0.00	3.46	0.02	0.00
13.10	1.28	0.00	3.45	0.02	0.00	13.12	1.27	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	1.14	0.00	3.42	0.02	0.00
13.18	1.06	0.00	3.41	0.02	0.00	13.20	0.99	0.01	3.40	0.02	0.00
13.22	0.95	0.05	3.39	0.02	0.00	13.24	0.94	0.06	3.38	0.02	0.00
13.26	0.95	0.05	3.37	0.02	0.00	13.28	0.99	0.01	3.36	0.02	0.00
13.30	0.99	0.01	3.35	0.02	0.00	13.32	1.01	0.00	3.34	0.02	0.00
13.34	1.02	0.00	3.33	0.02	0.00	13.36	1.04	0.00	3.32	0.02	0.00
13.38	1.09	0.00	3.31	0.02	0.00	13.40	1.16	0.00	3.30	0.02	0.00
13.42	1.21	0.00	3.29	0.02	0.00	13.44	1.23	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	1.14	0.00	3.23	0.02	0.00	13.56	1.13	0.00	3.22	0.02	0.00
13.58	1.16	0.00	3.21	0.02	0.00	13.60	1.19	0.00	3.20	0.02	0.00
13.62	1.22	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	1.26	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	1.09	0.00	3.07	0.02	0.00	13.88	1.11	0.00	3.06	0.02	0.00
13.90	1.10	0.00	3.05	0.02	0.00	13.92	1.13	0.00	3.04	0.02	0.00
13.94	1.15	0.00	3.03	0.02	0.00	13.96	1.16	0.00	3.02	0.02	0.00
13.98	1.16	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	2.00	0.00	2.97	0.02	0.00	14.08	2.00	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	2.00	0.00	2.73	0.02	0.00	14.56	2.00	0.00	2.72	0.02	0.00
14.58	2.00	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	0.90	0.10	2.50	0.02	0.00
15.02	0.88	0.12	2.49	0.02	0.01	15.04	0.89	0.11	2.48	0.02	0.01
15.06	0.90	0.10	2.47	0.02	0.00	15.08	0.93	0.07	2.46	0.02	0.00
15.10	0.93	0.07	2.45	0.02	0.00	15.12	0.93	0.07	2.44	0.02	0.00
15.14	0.93	0.07	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	2.00	0.00	1.73	0.02	0.00	16.56	2.00	0.00	1.72	0.02	0.00
16.58	2.00	0.00	1.71	0.02	0.00	16.60	2.00	0.00	1.70	0.02	0.00
16.62	2.00	0.00	1.69	0.02	0.00	16.64	2.00	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	2.00	0.00	1.63	0.02	0.00	16.76	2.00	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	1.01	0.00	1.54	0.02	0.00
16.94	1.01	0.00	1.53	0.02	0.00	16.96	1.01	0.00	1.52	0.02	0.00
16.98	1.01	0.00	1.51	0.02	0.00	17.00	1.00	0.00	1.50	0.02	0.00
17.02	1.00	0.00	1.49	0.02	0.00	17.04	1.02	0.00	1.48	0.02	0.00
17.06	1.06	0.00	1.47	0.02	0.00	17.08	1.13	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00

**Overall liquefaction potential: 0.64**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

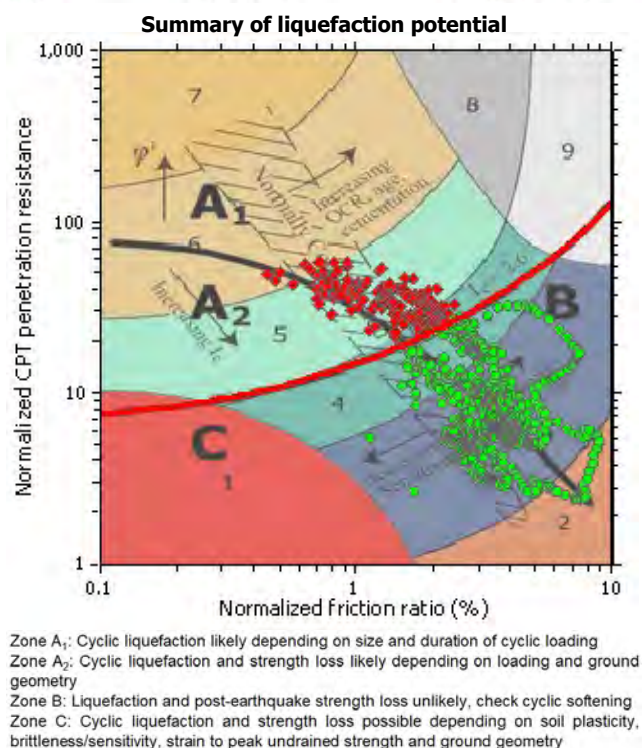
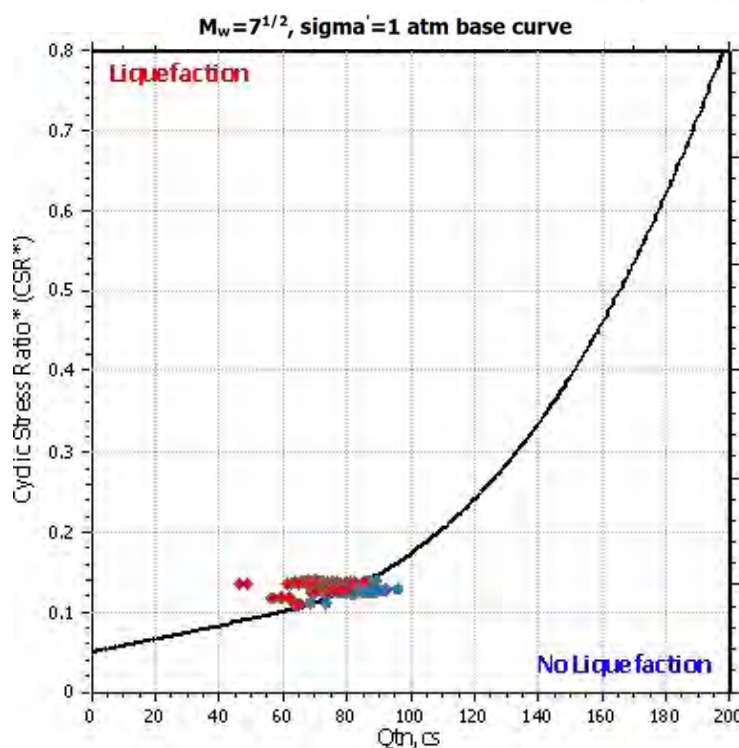
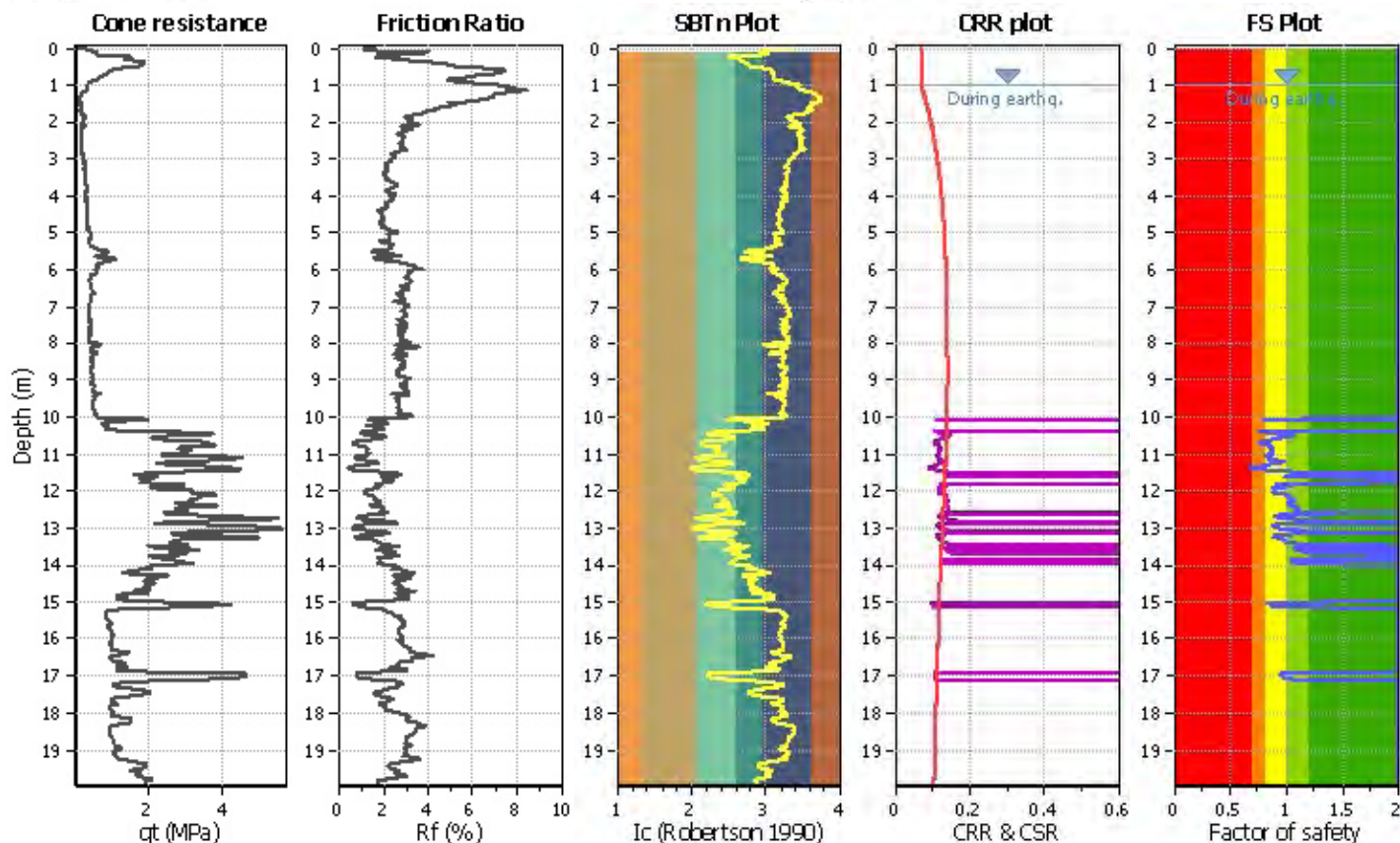
**Project title :**

**Location :**

**CPT file : CPTU3**

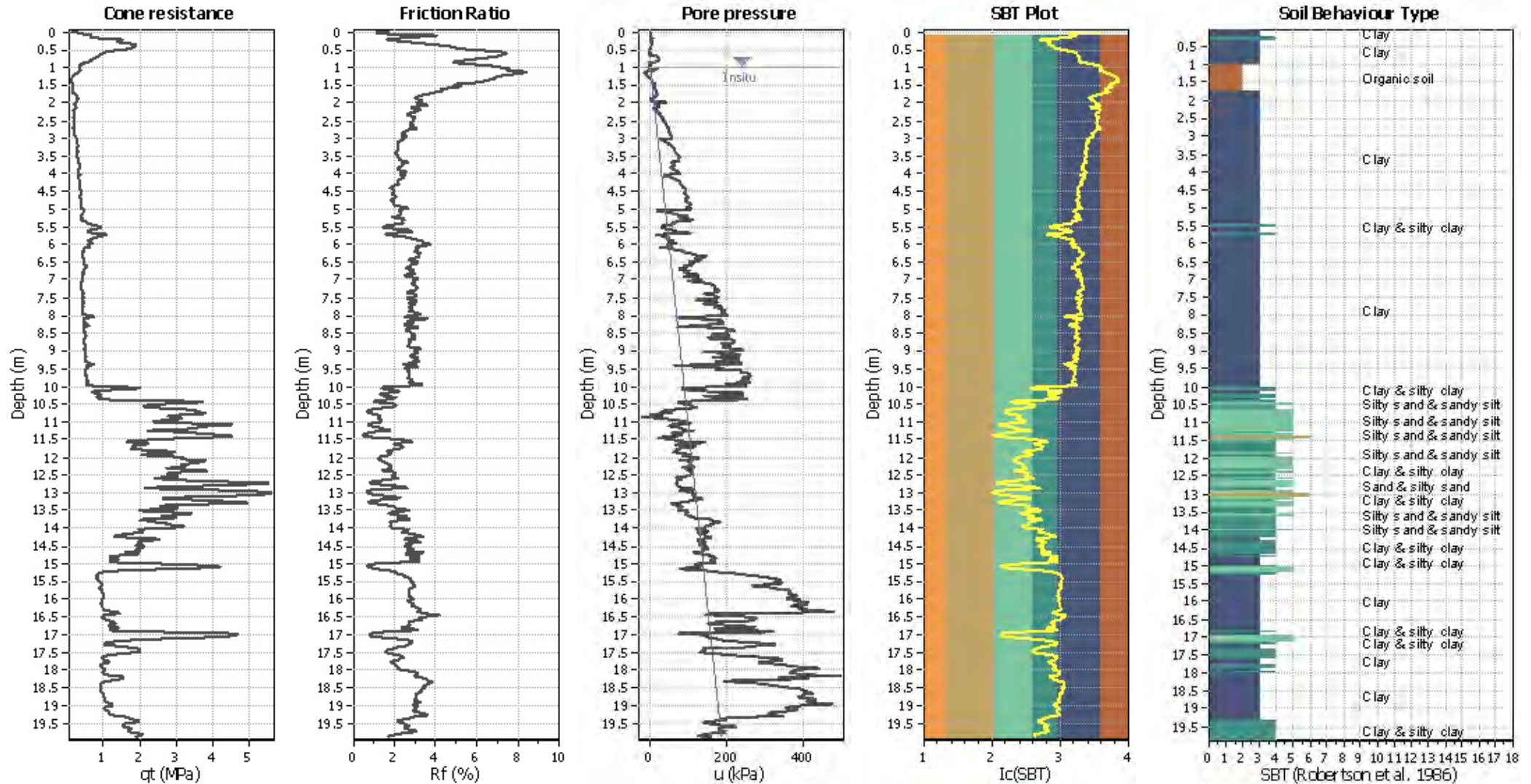
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



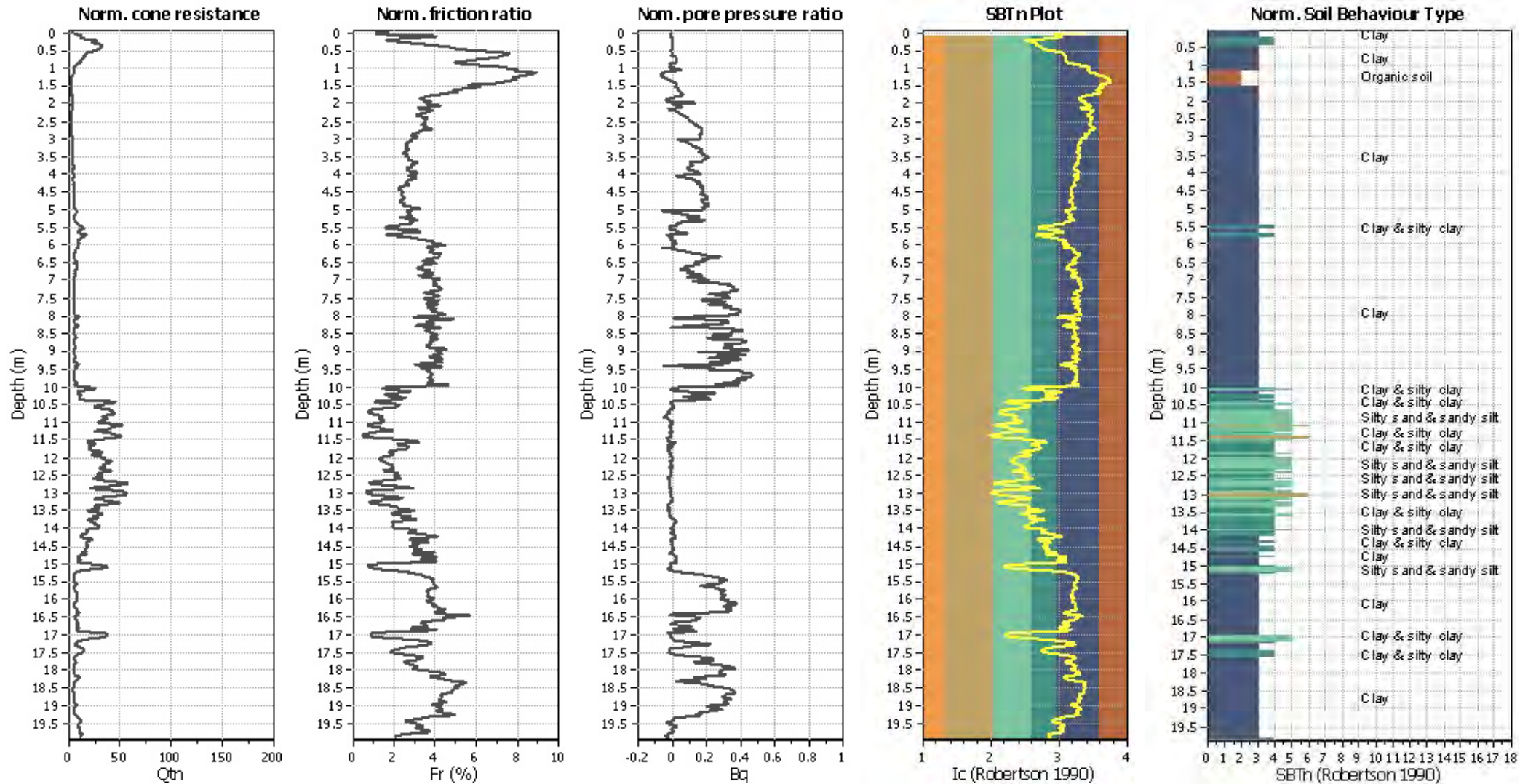
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

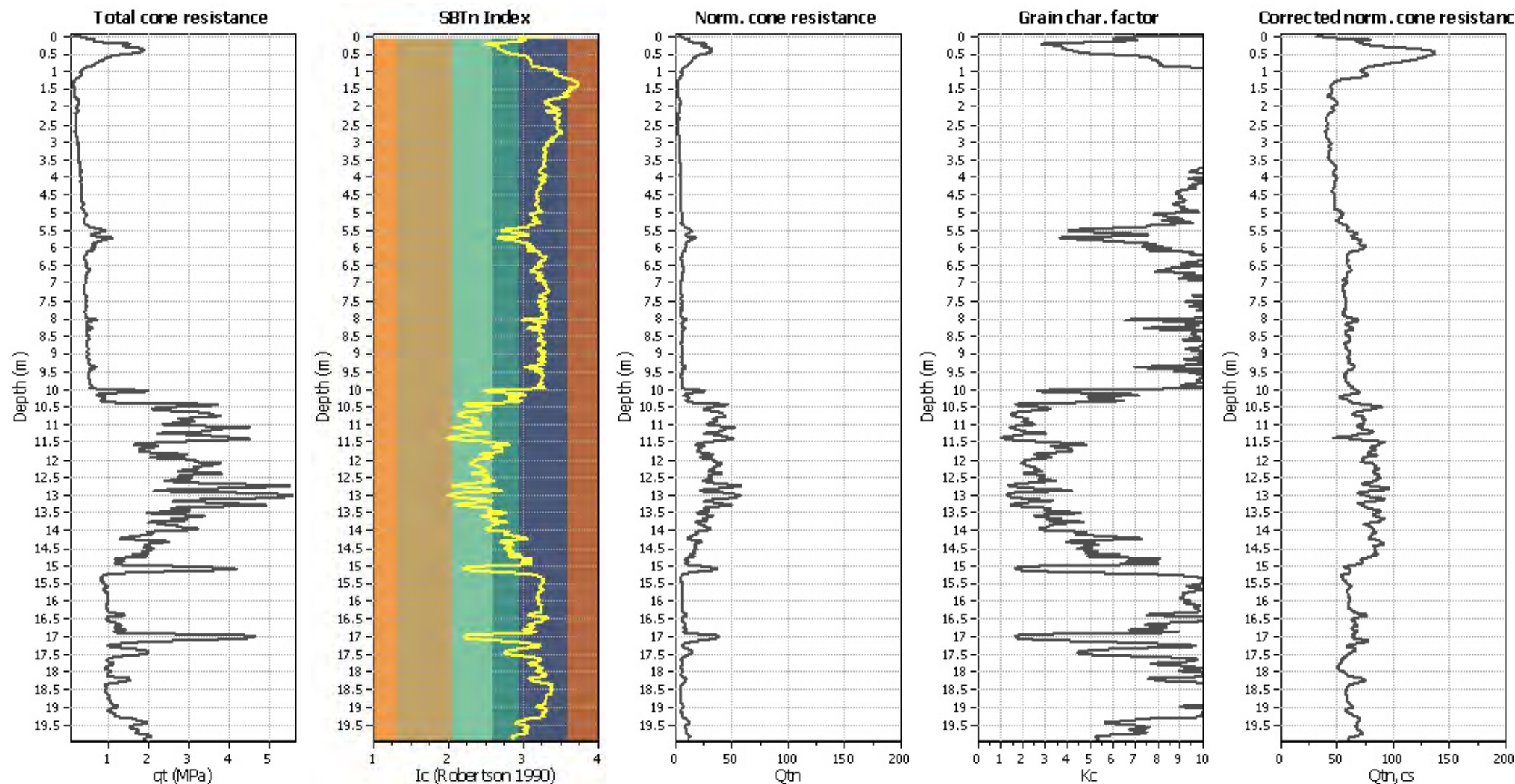
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



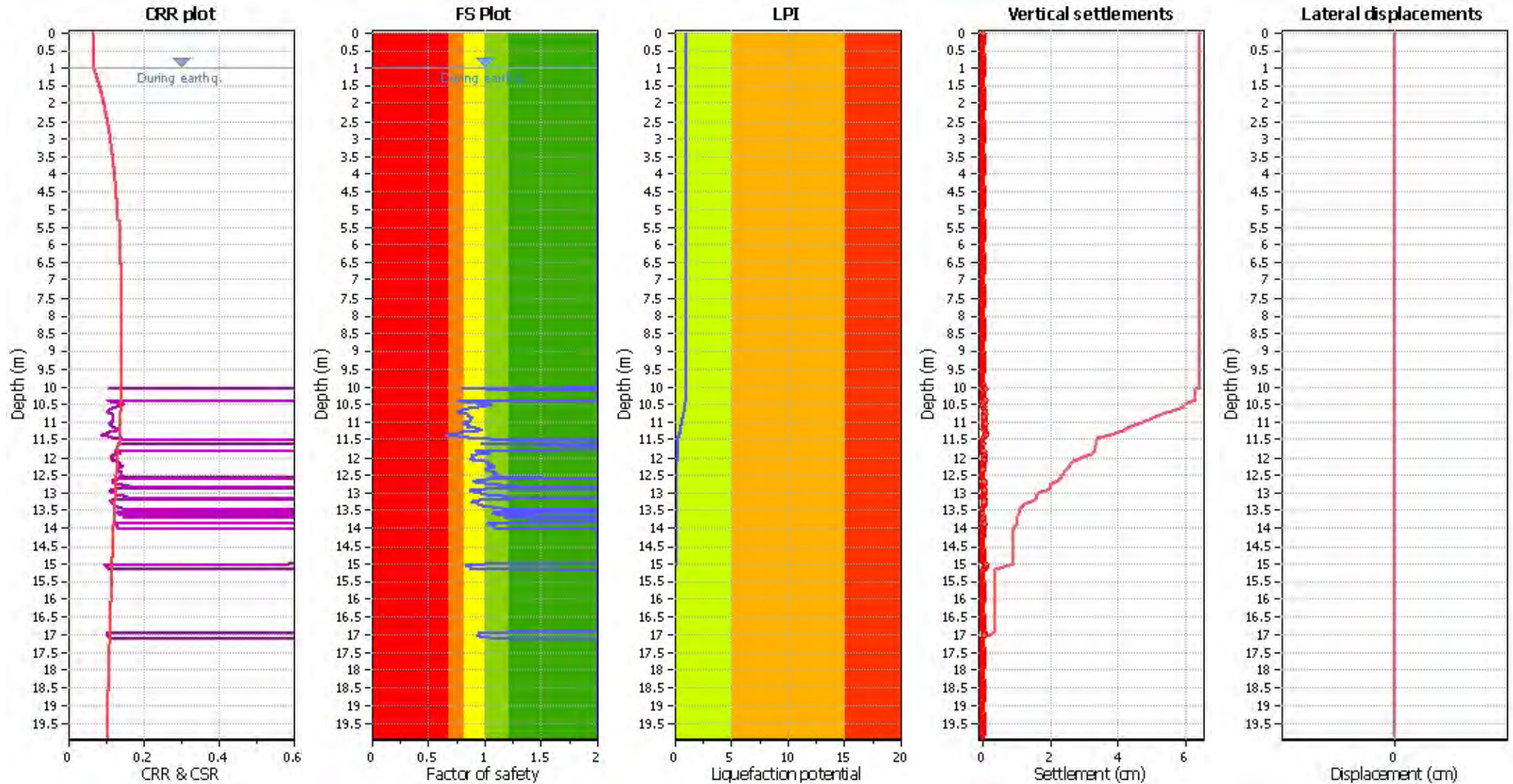
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

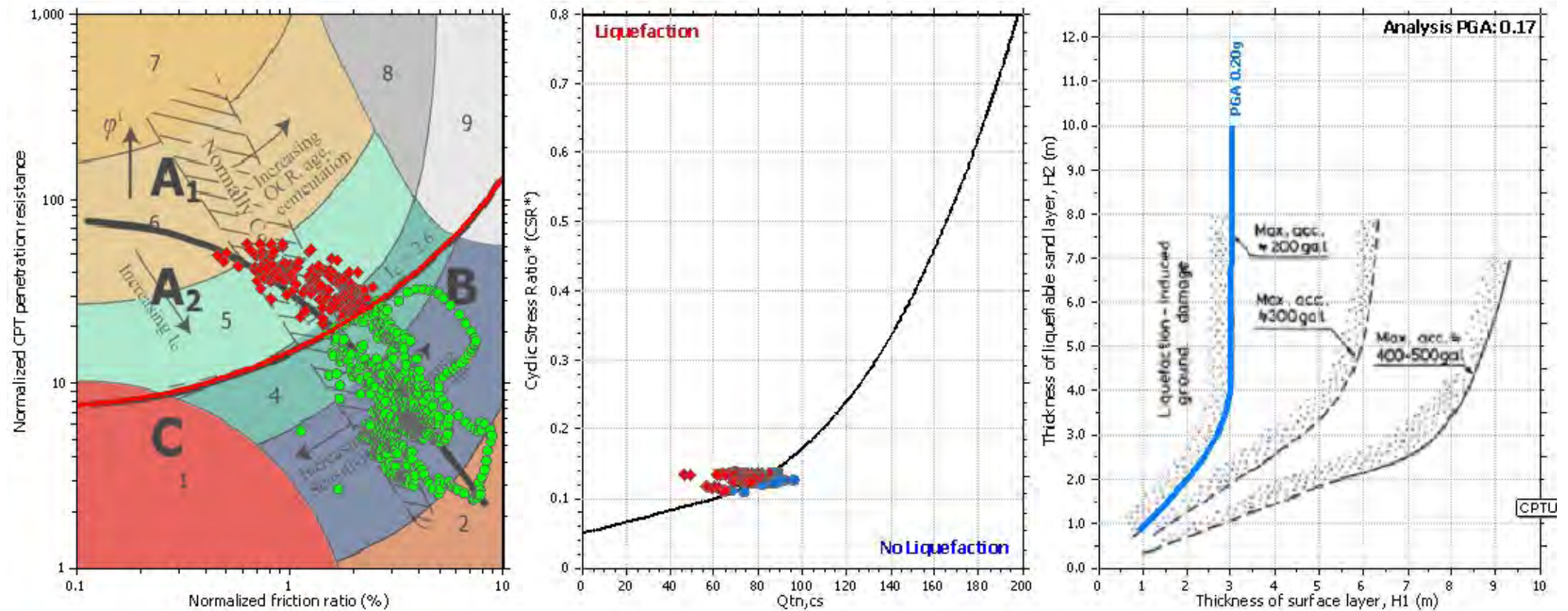
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



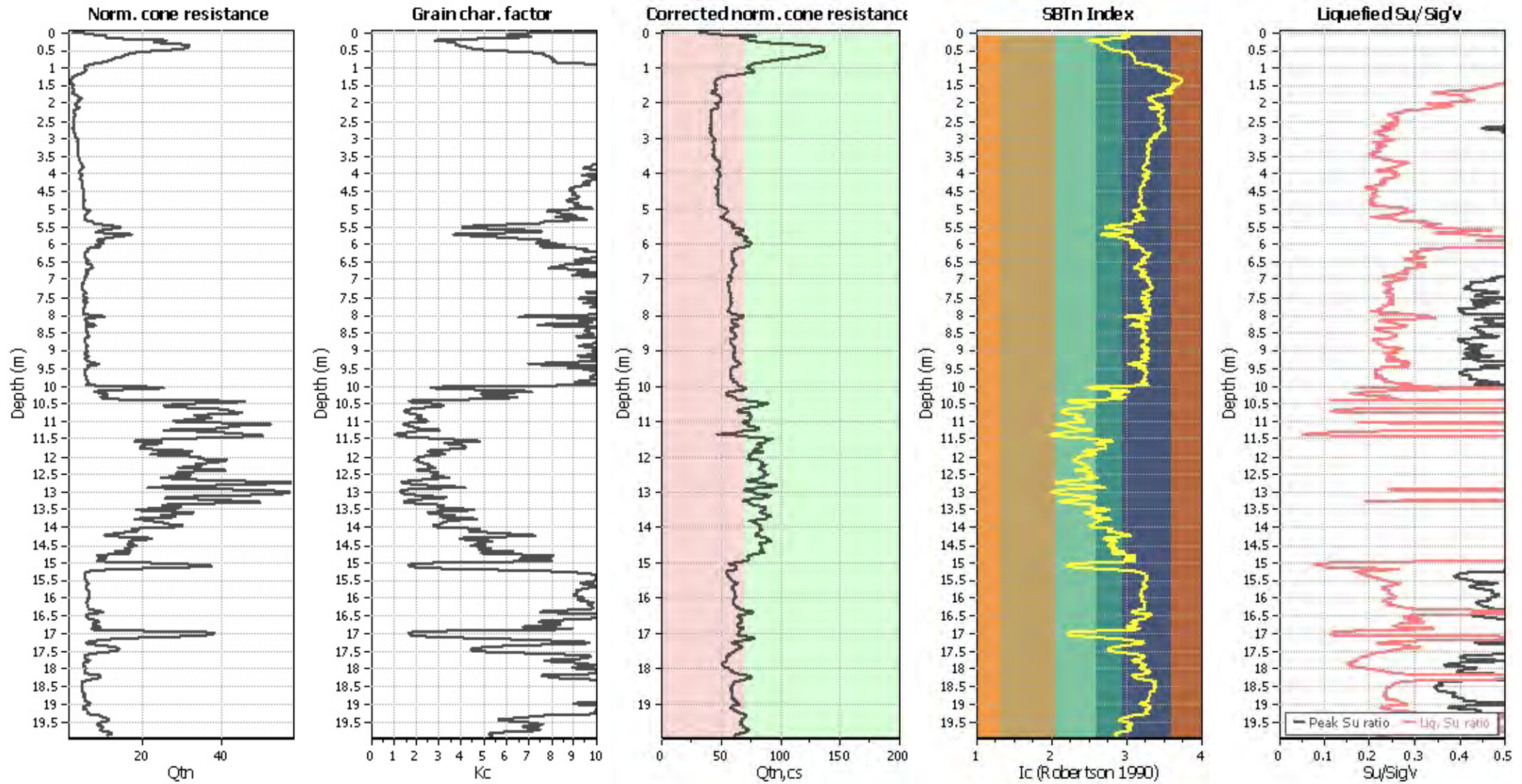
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	2.00	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	2.00	0.00	8.10	0.02	0.00
3.82	2.00	0.00	8.09	0.02	0.00	3.84	2.00	0.00	8.08	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	2.00	0.00	8.07	0.02	0.00	3.88	2.00	0.00	8.06	0.02	0.00
3.90	2.00	0.00	8.05	0.02	0.00	3.92	2.00	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	2.00	0.00	7.88	0.02	0.00
4.26	2.00	0.00	7.87	0.02	0.00	4.28	2.00	0.00	7.86	0.02	0.00
4.30	2.00	0.00	7.85	0.02	0.00	4.32	2.00	0.00	7.84	0.02	0.00
4.34	2.00	0.00	7.83	0.02	0.00	4.36	2.00	0.00	7.82	0.02	0.00
4.38	2.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	2.00	0.00	7.72	0.02	0.00
4.58	2.00	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	2.00	0.00	7.65	0.02	0.00	4.72	2.00	0.00	7.64	0.02	0.00
4.74	2.00	0.00	7.63	0.02	0.00	4.76	2.00	0.00	7.62	0.02	0.00
4.78	2.00	0.00	7.61	0.02	0.00	4.80	2.00	0.00	7.60	0.02	0.00
4.82	2.00	0.00	7.59	0.02	0.00	4.84	2.00	0.00	7.58	0.02	0.00
4.86	2.00	0.00	7.57	0.02	0.00	4.88	2.00	0.00	7.56	0.02	0.00
4.90	2.00	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	2.00	0.00	7.50	0.02	0.00
5.02	2.00	0.00	7.49	0.02	0.00	5.04	2.00	0.00	7.48	0.02	0.00
5.06	2.00	0.00	7.47	0.02	0.00	5.08	2.00	0.00	7.46	0.02	0.00
5.10	2.00	0.00	7.45	0.02	0.00	5.12	2.00	0.00	7.44	0.02	0.00
5.14	2.00	0.00	7.43	0.02	0.00	5.16	2.00	0.00	7.42	0.02	0.00
5.18	2.00	0.00	7.41	0.02	0.00	5.20	2.00	0.00	7.40	0.02	0.00
5.22	2.00	0.00	7.39	0.02	0.00	5.24	2.00	0.00	7.38	0.02	0.00
5.26	2.00	0.00	7.37	0.02	0.00	5.28	2.00	0.00	7.36	0.02	0.00
5.30	2.00	0.00	7.35	0.02	0.00	5.32	2.00	0.00	7.34	0.02	0.00
5.34	2.00	0.00	7.33	0.02	0.00	5.36	2.00	0.00	7.32	0.02	0.00
5.38	2.00	0.00	7.31	0.02	0.00	5.40	2.00	0.00	7.30	0.02	0.00
5.42	2.00	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	2.00	0.00	7.26	0.02	0.00
5.50	2.00	0.00	7.25	0.02	0.00	5.52	2.00	0.00	7.24	0.02	0.00
5.54	2.00	0.00	7.23	0.02	0.00	5.56	2.00	0.00	7.22	0.02	0.00
5.58	2.00	0.00	7.21	0.02	0.00	5.60	2.00	0.00	7.20	0.02	0.00
5.62	2.00	0.00	7.19	0.02	0.00	5.64	2.00	0.00	7.18	0.02	0.00
5.66	2.00	0.00	7.17	0.02	0.00	5.68	2.00	0.00	7.16	0.02	0.00
5.70	2.00	0.00	7.15	0.02	0.00	5.72	2.00	0.00	7.14	0.02	0.00
5.74	2.00	0.00	7.13	0.02	0.00	5.76	2.00	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	2.00	0.00	7.11	0.02	0.00	5.80	2.00	0.00	7.10	0.02	0.00
5.82	2.00	0.00	7.09	0.02	0.00	5.84	2.00	0.00	7.08	0.02	0.00
5.86	2.00	0.00	7.07	0.02	0.00	5.88	2.00	0.00	7.06	0.02	0.00
5.90	2.00	0.00	7.05	0.02	0.00	5.92	2.00	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	2.00	0.00	6.96	0.02	0.00
6.10	2.00	0.00	6.95	0.02	0.00	6.12	2.00	0.00	6.94	0.02	0.00
6.14	2.00	0.00	6.93	0.02	0.00	6.16	2.00	0.00	6.92	0.02	0.00
6.18	2.00	0.00	6.91	0.02	0.00	6.20	2.00	0.00	6.90	0.02	0.00
6.22	2.00	0.00	6.89	0.02	0.00	6.24	2.00	0.00	6.88	0.02	0.00
6.26	2.00	0.00	6.87	0.02	0.00	6.28	2.00	0.00	6.86	0.02	0.00
6.30	2.00	0.00	6.85	0.02	0.00	6.32	2.00	0.00	6.84	0.02	0.00
6.34	2.00	0.00	6.83	0.02	0.00	6.36	2.00	0.00	6.82	0.02	0.00
6.38	2.00	0.00	6.81	0.02	0.00	6.40	2.00	0.00	6.80	0.02	0.00
6.42	2.00	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	2.00	0.00	6.71	0.02	0.00	6.60	2.00	0.00	6.70	0.02	0.00
6.62	2.00	0.00	6.69	0.02	0.00	6.64	2.00	0.00	6.68	0.02	0.00
6.66	2.00	0.00	6.67	0.02	0.00	6.68	2.00	0.00	6.66	0.02	0.00
6.70	2.00	0.00	6.65	0.02	0.00	6.72	2.00	0.00	6.64	0.02	0.00
6.74	2.00	0.00	6.63	0.02	0.00	6.76	2.00	0.00	6.62	0.02	0.00
6.78	2.00	0.00	6.61	0.02	0.00	6.80	2.00	0.00	6.60	0.02	0.00
6.82	2.00	0.00	6.59	0.02	0.00	6.84	2.00	0.00	6.58	0.02	0.00
6.86	2.00	0.00	6.57	0.02	0.00	6.88	2.00	0.00	6.56	0.02	0.00
6.90	2.00	0.00	6.55	0.02	0.00	6.92	2.00	0.00	6.54	0.02	0.00
6.94	2.00	0.00	6.53	0.02	0.00	6.96	2.00	0.00	6.52	0.02	0.00
6.98	2.00	0.00	6.51	0.02	0.00	7.00	2.00	0.00	6.50	0.02	0.00
7.02	2.00	0.00	6.49	0.02	0.00	7.04	2.00	0.00	6.48	0.02	0.00
7.06	2.00	0.00	6.47	0.02	0.00	7.08	2.00	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	2.00	0.00	6.20	0.02	0.00
7.62	2.00	0.00	6.19	0.02	0.00	7.64	2.00	0.00	6.18	0.02	0.00
7.66	2.00	0.00	6.17	0.02	0.00	7.68	2.00	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	2.00	0.00	6.15	0.02	0.00	7.72	2.00	0.00	6.14	0.02	0.00
7.74	2.00	0.00	6.13	0.02	0.00	7.76	2.00	0.00	6.12	0.02	0.00
7.78	2.00	0.00	6.11	0.02	0.00	7.80	2.00	0.00	6.10	0.02	0.00
7.82	2.00	0.00	6.09	0.02	0.00	7.84	2.00	0.00	6.08	0.02	0.00
7.86	2.00	0.00	6.07	0.02	0.00	7.88	2.00	0.00	6.06	0.02	0.00
7.90	2.00	0.00	6.05	0.02	0.00	7.92	2.00	0.00	6.04	0.02	0.00
7.94	2.00	0.00	6.03	0.02	0.00	7.96	2.00	0.00	6.02	0.02	0.00
7.98	2.00	0.00	6.01	0.02	0.00	8.00	2.00	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	2.00	0.00	5.91	0.02	0.00	8.20	2.00	0.00	5.90	0.02	0.00
8.22	2.00	0.00	5.89	0.02	0.00	8.24	2.00	0.00	5.88	0.02	0.00
8.26	2.00	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	2.00	0.00	5.84	0.02	0.00
8.34	2.00	0.00	5.83	0.02	0.00	8.36	2.00	0.00	5.82	0.02	0.00
8.38	2.00	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	2.00	0.00	5.61	0.02	0.00	8.80	2.00	0.00	5.60	0.02	0.00
8.82	2.00	0.00	5.59	0.02	0.00	8.84	2.00	0.00	5.58	0.02	0.00
8.86	2.00	0.00	5.57	0.02	0.00	8.88	2.00	0.00	5.56	0.02	0.00
8.90	2.00	0.00	5.55	0.02	0.00	8.92	2.00	0.00	5.54	0.02	0.00
8.94	2.00	0.00	5.53	0.02	0.00	8.96	2.00	0.00	5.52	0.02	0.00
8.98	2.00	0.00	5.51	0.02	0.00	9.00	2.00	0.00	5.50	0.02	0.00
9.02	2.00	0.00	5.49	0.02	0.00	9.04	2.00	0.00	5.48	0.02	0.00
9.06	2.00	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	0.79	0.21	4.98	0.02	0.02
10.06	0.81	0.19	4.97	0.02	0.02	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	2.00	0.00	4.93	0.02	0.00	10.16	2.00	0.00	4.92	0.02	0.00
10.18	2.00	0.00	4.91	0.02	0.00	10.20	2.00	0.00	4.90	0.02	0.00
10.22	2.00	0.00	4.89	0.02	0.00	10.24	2.00	0.00	4.88	0.02	0.00
10.26	2.00	0.00	4.87	0.02	0.00	10.28	2.00	0.00	4.86	0.02	0.00
10.30	2.00	0.00	4.85	0.02	0.00	10.32	2.00	0.00	4.84	0.02	0.00
10.34	2.00	0.00	4.83	0.02	0.00	10.36	2.00	0.00	4.82	0.02	0.00
10.38	0.76	0.24	4.81	0.02	0.02	10.40	0.78	0.22	4.80	0.02	0.02
10.42	0.83	0.17	4.79	0.02	0.02	10.44	0.89	0.11	4.78	0.02	0.01
10.46	0.95	0.05	4.77	0.02	0.01	10.48	1.02	0.00	4.76	0.02	0.00
10.50	1.06	0.00	4.75	0.02	0.00	10.52	1.04	0.00	4.74	0.02	0.00
10.54	1.00	0.00	4.73	0.02	0.00	10.56	0.96	0.04	4.72	0.02	0.00
10.58	0.93	0.07	4.71	0.02	0.01	10.60	0.88	0.12	4.70	0.02	0.01
10.62	0.83	0.17	4.69	0.02	0.02	10.64	0.80	0.20	4.68	0.02	0.02
10.66	0.79	0.21	4.67	0.02	0.02	10.68	0.78	0.22	4.66	0.02	0.02
10.70	0.76	0.24	4.65	0.02	0.02	10.72	0.76	0.24	4.64	0.02	0.02
10.74	0.79	0.21	4.63	0.02	0.02	10.76	0.84	0.16	4.62	0.02	0.01
10.78	0.86	0.14	4.61	0.02	0.01	10.80	0.86	0.14	4.60	0.02	0.01
10.82	0.85	0.15	4.59	0.02	0.01	10.84	0.86	0.14	4.58	0.02	0.01
10.86	0.88	0.12	4.57	0.02	0.01	10.88	0.88	0.12	4.56	0.02	0.01
10.90	0.87	0.13	4.55	0.02	0.01	10.92	0.87	0.13	4.54	0.02	0.01
10.94	0.87	0.13	4.53	0.02	0.01	10.96	0.87	0.13	4.52	0.02	0.01
10.98	0.85	0.15	4.51	0.02	0.01	11.00	0.83	0.17	4.50	0.02	0.02
11.02	0.81	0.19	4.49	0.02	0.02	11.04	0.81	0.19	4.48	0.02	0.02
11.06	0.84	0.16	4.47	0.02	0.01	11.08	0.86	0.14	4.46	0.02	0.01
11.10	0.85	0.15	4.45	0.02	0.01	11.12	0.85	0.15	4.44	0.02	0.01
11.14	0.87	0.13	4.43	0.02	0.01	11.16	0.92	0.08	4.42	0.02	0.01
11.18	0.97	0.03	4.41	0.02	0.00	11.20	0.98	0.02	4.40	0.02	0.00
11.22	0.94	0.06	4.39	0.02	0.01	11.24	0.88	0.12	4.38	0.02	0.01
11.26	0.84	0.16	4.37	0.02	0.01	11.28	0.81	0.19	4.36	0.02	0.02
11.30	0.79	0.21	4.35	0.02	0.02	11.32	0.77	0.23	4.34	0.02	0.02
11.34	0.76	0.24	4.33	0.02	0.02	11.36	0.66	0.34	4.32	0.02	0.03
11.38	0.68	0.32	4.31	0.02	0.03	11.40	0.79	0.21	4.30	0.02	0.02
11.42	0.83	0.17	4.29	0.02	0.01	11.44	0.88	0.12	4.28	0.02	0.01
11.46	0.98	0.02	4.27	0.02	0.00	11.48	1.09	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	0.98	0.02	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	0.92	0.08	4.10	0.02	0.01
11.82	0.94	0.06	4.09	0.02	0.00	11.84	1.01	0.00	4.08	0.02	0.00
11.86	1.05	0.00	4.07	0.02	0.00	11.88	1.01	0.00	4.06	0.02	0.00
11.90	0.93	0.07	4.05	0.02	0.01	11.92	0.88	0.12	4.04	0.02	0.01
11.94	0.88	0.12	4.03	0.02	0.01	11.96	0.89	0.11	4.02	0.02	0.01
11.98	0.90	0.10	4.01	0.02	0.01	12.00	0.90	0.10	4.00	0.02	0.01
12.02	0.88	0.12	3.99	0.02	0.01	12.04	0.87	0.13	3.98	0.02	0.01
12.06	0.90	0.10	3.97	0.02	0.01	12.08	0.94	0.06	3.96	0.02	0.00
12.10	0.97	0.03	3.95	0.02	0.00	12.12	1.00	0.00	3.94	0.02	0.00
12.14	1.03	0.00	3.93	0.02	0.00	12.16	1.04	0.00	3.92	0.02	0.00
12.18	1.03	0.00	3.91	0.02	0.00	12.20	1.02	0.00	3.90	0.02	0.00
12.22	1.07	0.00	3.89	0.02	0.00	12.24	1.09	0.00	3.88	0.02	0.00
12.26	1.09	0.00	3.87	0.02	0.00	12.28	1.05	0.00	3.86	0.02	0.00
12.30	1.02	0.00	3.85	0.02	0.00	12.32	1.02	0.00	3.84	0.02	0.00
12.34	1.02	0.00	3.83	0.02	0.00	12.36	1.03	0.00	3.82	0.02	0.00
12.38	1.04	0.00	3.81	0.02	0.00	12.40	1.07	0.00	3.80	0.02	0.00
12.42	1.10	0.00	3.79	0.02	0.00	12.44	1.10	0.00	3.78	0.02	0.00
12.46	1.08	0.00	3.77	0.02	0.00	12.48	1.09	0.00	3.76	0.02	0.00
12.50	1.12	0.00	3.75	0.02	0.00	12.52	1.11	0.00	3.74	0.02	0.00
12.54	1.08	0.00	3.73	0.02	0.00	12.56	1.06	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	1.04	0.00	3.70	0.02	0.00
12.62	1.00	0.00	3.69	0.02	0.00	12.64	0.94	0.06	3.68	0.02	0.00
12.66	0.91	0.09	3.67	0.02	0.01	12.68	0.90	0.10	3.66	0.02	0.01
12.70	0.93	0.07	3.65	0.02	0.00	12.72	0.98	0.02	3.64	0.02	0.00
12.74	1.03	0.00	3.63	0.02	0.00	12.76	1.10	0.00	3.62	0.02	0.00
12.78	1.21	0.00	3.61	0.02	0.00	12.80	1.28	0.00	3.60	0.02	0.00
12.82	1.29	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	1.01	0.00	3.56	0.02	0.00
12.90	0.91	0.09	3.55	0.02	0.01	12.92	0.88	0.12	3.54	0.02	0.01
12.94	0.88	0.12	3.53	0.02	0.01	12.96	0.88	0.12	3.52	0.02	0.01
12.98	0.90	0.10	3.51	0.02	0.01	13.00	0.93	0.07	3.50	0.02	0.01
13.02	0.96	0.04	3.49	0.02	0.00	13.04	1.01	0.00	3.48	0.02	0.00
13.06	1.09	0.00	3.47	0.02	0.00	13.08	1.17	0.00	3.46	0.02	0.00
13.10	1.21	0.00	3.45	0.02	0.00	13.12	1.19	0.00	3.44	0.02	0.00
13.14	2.00	0.00	3.43	0.02	0.00	13.16	1.08	0.00	3.42	0.02	0.00
13.18	1.00	0.00	3.41	0.02	0.00	13.20	0.93	0.07	3.40	0.02	0.00
13.22	0.89	0.11	3.39	0.02	0.01	13.24	0.88	0.12	3.38	0.02	0.01
13.26	0.90	0.10	3.37	0.02	0.01	13.28	0.93	0.07	3.36	0.02	0.00
13.30	0.94	0.06	3.35	0.02	0.00	13.32	0.95	0.05	3.34	0.02	0.00
13.34	0.97	0.03	3.33	0.02	0.00	13.36	0.98	0.02	3.32	0.02	0.00
13.38	1.03	0.00	3.31	0.02	0.00	13.40	1.09	0.00	3.30	0.02	0.00
13.42	1.14	0.00	3.29	0.02	0.00	13.44	1.16	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	2.00	0.00	3.25	0.02	0.00	13.52	2.00	0.00	3.24	0.02	0.00
13.54	1.07	0.00	3.23	0.02	0.00	13.56	1.07	0.00	3.22	0.02	0.00
13.58	1.09	0.00	3.21	0.02	0.00	13.60	1.13	0.00	3.20	0.02	0.00
13.62	1.15	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	1.19	0.00	3.15	0.02	0.00	13.72	2.00	0.00	3.14	0.02	0.00
13.74	2.00	0.00	3.13	0.02	0.00	13.76	2.00	0.00	3.12	0.02	0.00
13.78	2.00	0.00	3.11	0.02	0.00	13.80	2.00	0.00	3.10	0.02	0.00
13.82	2.00	0.00	3.09	0.02	0.00	13.84	2.00	0.00	3.08	0.02	0.00
13.86	1.03	0.00	3.07	0.02	0.00	13.88	1.05	0.00	3.06	0.02	0.00
13.90	1.03	0.00	3.05	0.02	0.00	13.92	1.07	0.00	3.04	0.02	0.00
13.94	1.08	0.00	3.03	0.02	0.00	13.96	1.09	0.00	3.02	0.02	0.00
13.98	1.09	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	2.00	0.00	2.99	0.02	0.00	14.04	2.00	0.00	2.98	0.02	0.00
14.06	2.00	0.00	2.97	0.02	0.00	14.08	2.00	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	2.00	0.00	2.89	0.02	0.00	14.24	2.00	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	2.00	0.00	2.73	0.02	0.00	14.56	2.00	0.00	2.72	0.02	0.00
14.58	2.00	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	2.00	0.00	2.69	0.02	0.00	14.64	2.00	0.00	2.68	0.02	0.00
14.66	2.00	0.00	2.67	0.02	0.00	14.68	2.00	0.00	2.66	0.02	0.00
14.70	2.00	0.00	2.65	0.02	0.00	14.72	2.00	0.00	2.64	0.02	0.00
14.74	2.00	0.00	2.63	0.02	0.00	14.76	2.00	0.00	2.62	0.02	0.00
14.78	2.00	0.00	2.61	0.02	0.00	14.80	2.00	0.00	2.60	0.02	0.00
14.82	2.00	0.00	2.59	0.02	0.00	14.84	2.00	0.00	2.58	0.02	0.00
14.86	2.00	0.00	2.57	0.02	0.00	14.88	2.00	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	0.85	0.15	2.50	0.02	0.01
15.02	0.83	0.17	2.49	0.02	0.01	15.04	0.84	0.16	2.48	0.02	0.01
15.06	0.85	0.15	2.47	0.02	0.01	15.08	0.88	0.12	2.46	0.02	0.01
15.10	0.88	0.12	2.45	0.02	0.01	15.12	0.88	0.12	2.44	0.02	0.01
15.14	0.88	0.12	2.43	0.02	0.01	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	2.00	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	2.00	0.00	2.15	0.02	0.00	15.72	2.00	0.00	2.14	0.02	0.00
15.74	2.00	0.00	2.13	0.02	0.00	15.76	2.00	0.00	2.12	0.02	0.00
15.78	2.00	0.00	2.11	0.02	0.00	15.80	2.00	0.00	2.10	0.02	0.00
15.82	2.00	0.00	2.09	0.02	0.00	15.84	2.00	0.00	2.08	0.02	0.00
15.86	2.00	0.00	2.07	0.02	0.00	15.88	2.00	0.00	2.06	0.02	0.00
15.90	2.00	0.00	2.05	0.02	0.00	15.92	2.00	0.00	2.04	0.02	0.00
15.94	2.00	0.00	2.03	0.02	0.00	15.96	2.00	0.00	2.02	0.02	0.00
15.98	2.00	0.00	2.01	0.02	0.00	16.00	2.00	0.00	2.00	0.02	0.00
16.02	2.00	0.00	1.99	0.02	0.00	16.04	2.00	0.00	1.98	0.02	0.00
16.06	2.00	0.00	1.97	0.02	0.00	16.08	2.00	0.00	1.96	0.02	0.00
16.10	2.00	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	2.00	0.00	1.86	0.02	0.00
16.30	2.00	0.00	1.85	0.02	0.00	16.32	2.00	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	2.00	0.00	1.81	0.02	0.00	16.40	2.00	0.00	1.80	0.02	0.00
16.42	2.00	0.00	1.79	0.02	0.00	16.44	2.00	0.00	1.78	0.02	0.00
16.46	2.00	0.00	1.77	0.02	0.00	16.48	2.00	0.00	1.76	0.02	0.00
16.50	2.00	0.00	1.75	0.02	0.00	16.52	2.00	0.00	1.74	0.02	0.00
16.54	2.00	0.00	1.73	0.02	0.00	16.56	2.00	0.00	1.72	0.02	0.00
16.58	2.00	0.00	1.71	0.02	0.00	16.60	2.00	0.00	1.70	0.02	0.00
16.62	2.00	0.00	1.69	0.02	0.00	16.64	2.00	0.00	1.68	0.02	0.00
16.66	2.00	0.00	1.67	0.02	0.00	16.68	2.00	0.00	1.66	0.02	0.00
16.70	2.00	0.00	1.65	0.02	0.00	16.72	2.00	0.00	1.64	0.02	0.00
16.74	2.00	0.00	1.63	0.02	0.00	16.76	2.00	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	0.96	0.04	1.54	0.02	0.00
16.94	0.95	0.05	1.53	0.02	0.00	16.96	0.95	0.05	1.52	0.02	0.00
16.98	0.95	0.05	1.51	0.02	0.00	17.00	0.94	0.06	1.50	0.02	0.00
17.02	0.94	0.06	1.49	0.02	0.00	17.04	0.96	0.04	1.48	0.02	0.00
17.06	1.00	0.00	1.47	0.02	0.00	17.08	1.06	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	2.00	0.00	0.70	0.02	0.00
18.62	2.00	0.00	0.69	0.02	0.00	18.64	2.00	0.00	0.68	0.02	0.00
18.66	2.00	0.00	0.67	0.02	0.00	18.68	2.00	0.00	0.66	0.02	0.00
18.70	2.00	0.00	0.65	0.02	0.00	18.72	2.00	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	2.00	0.00	0.16	0.02	0.00
19.70	2.00	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00

**Overall liquefaction potential: 1.04**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

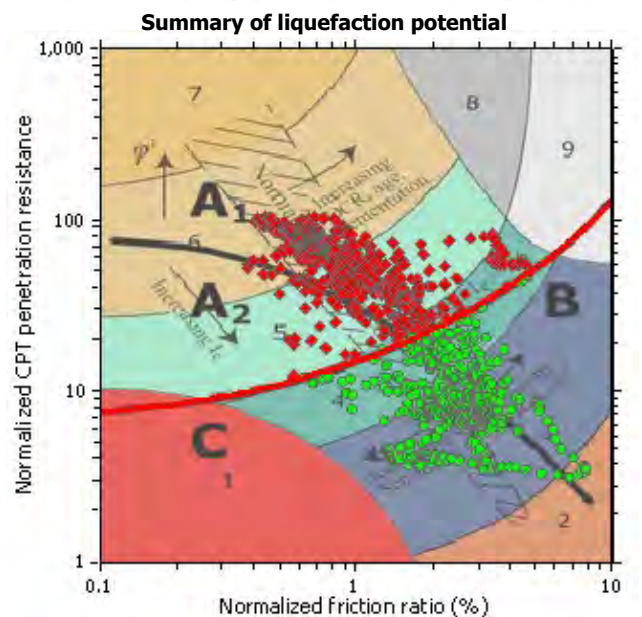
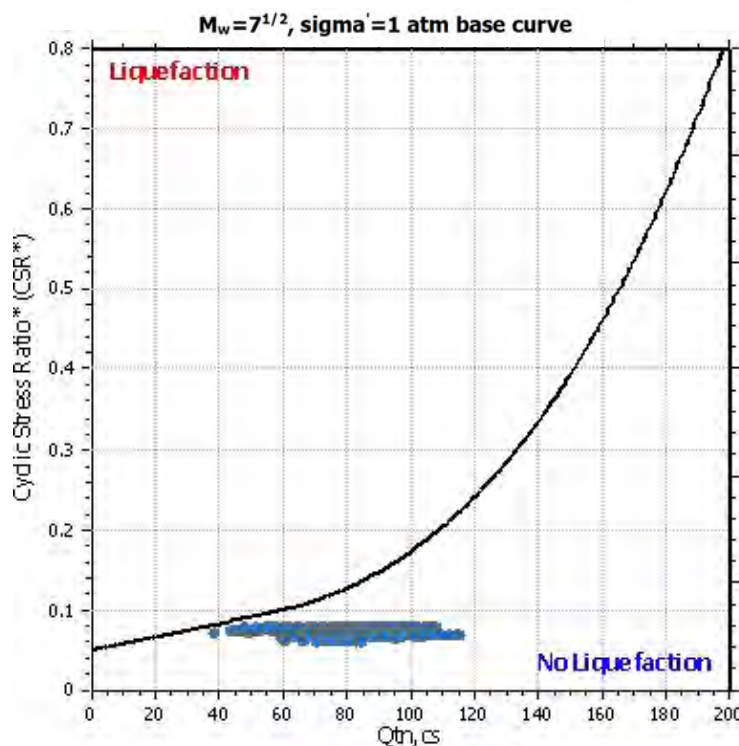
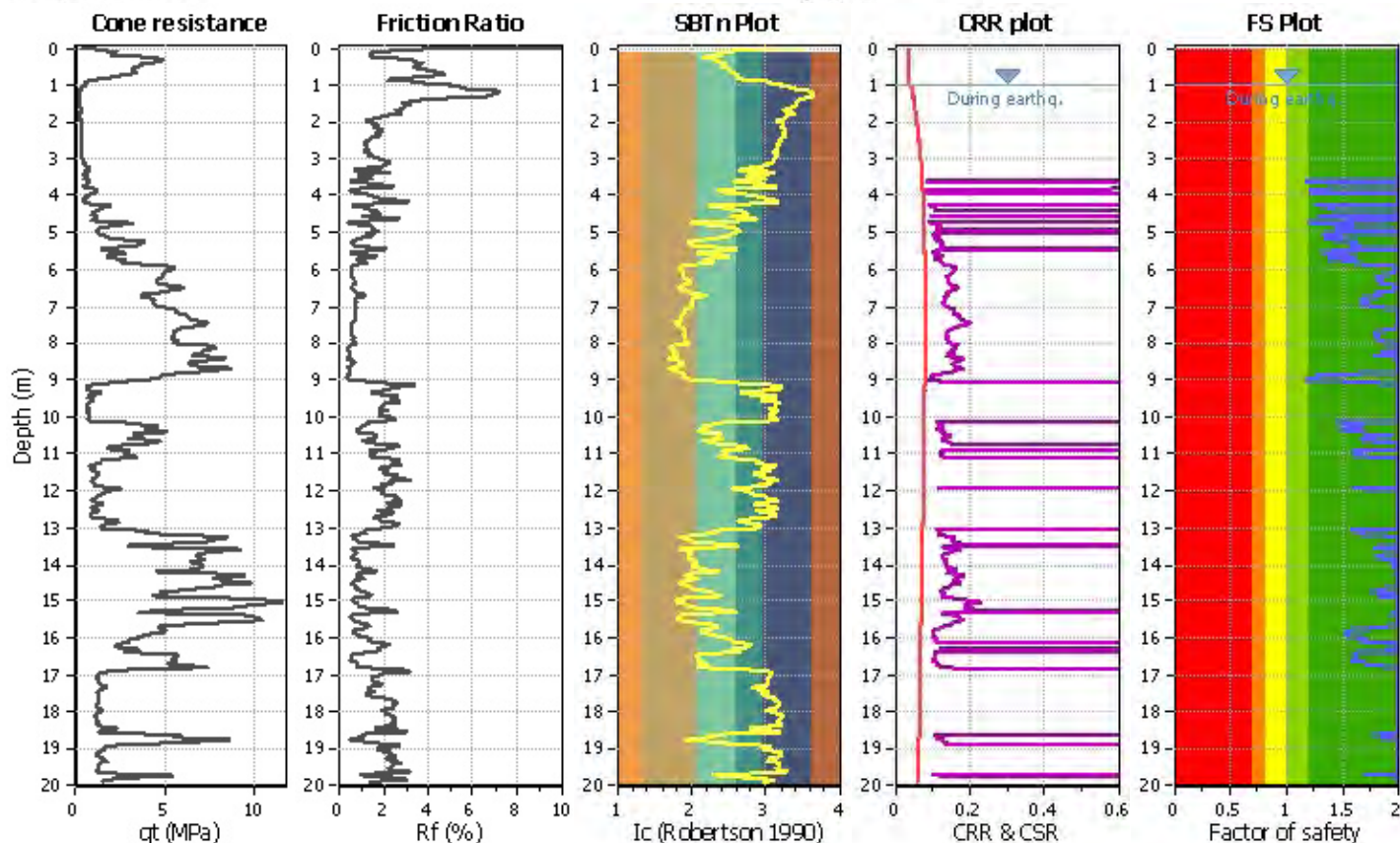
**Project title :**

**Location :**

**CPT file : CPTU4**

### Input parameters and analysis data

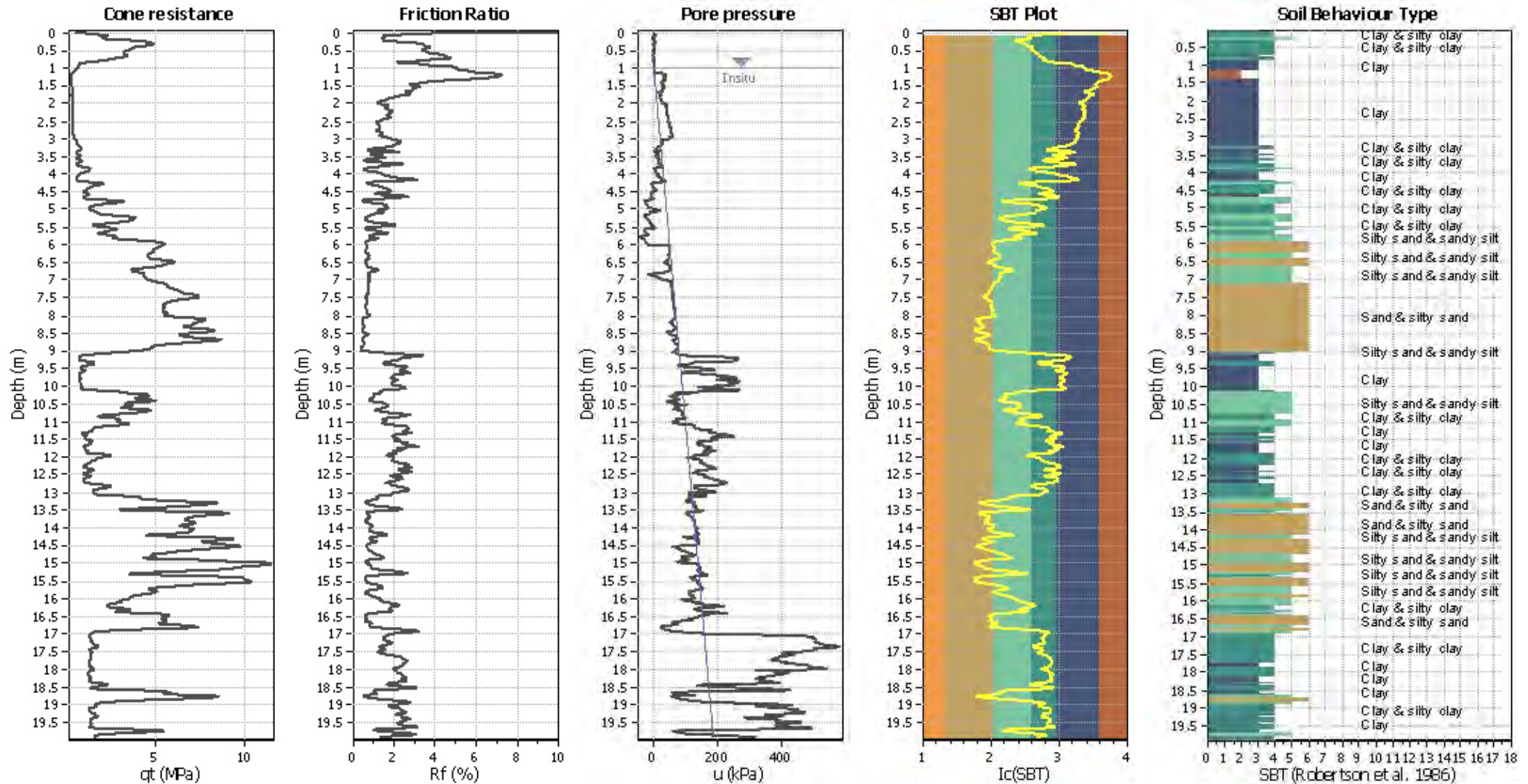
Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based



Zone A<sub>1</sub>: Cyclic liquefaction likely depending on size and duration of cyclic loading  
 Zone A<sub>2</sub>: 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 plo



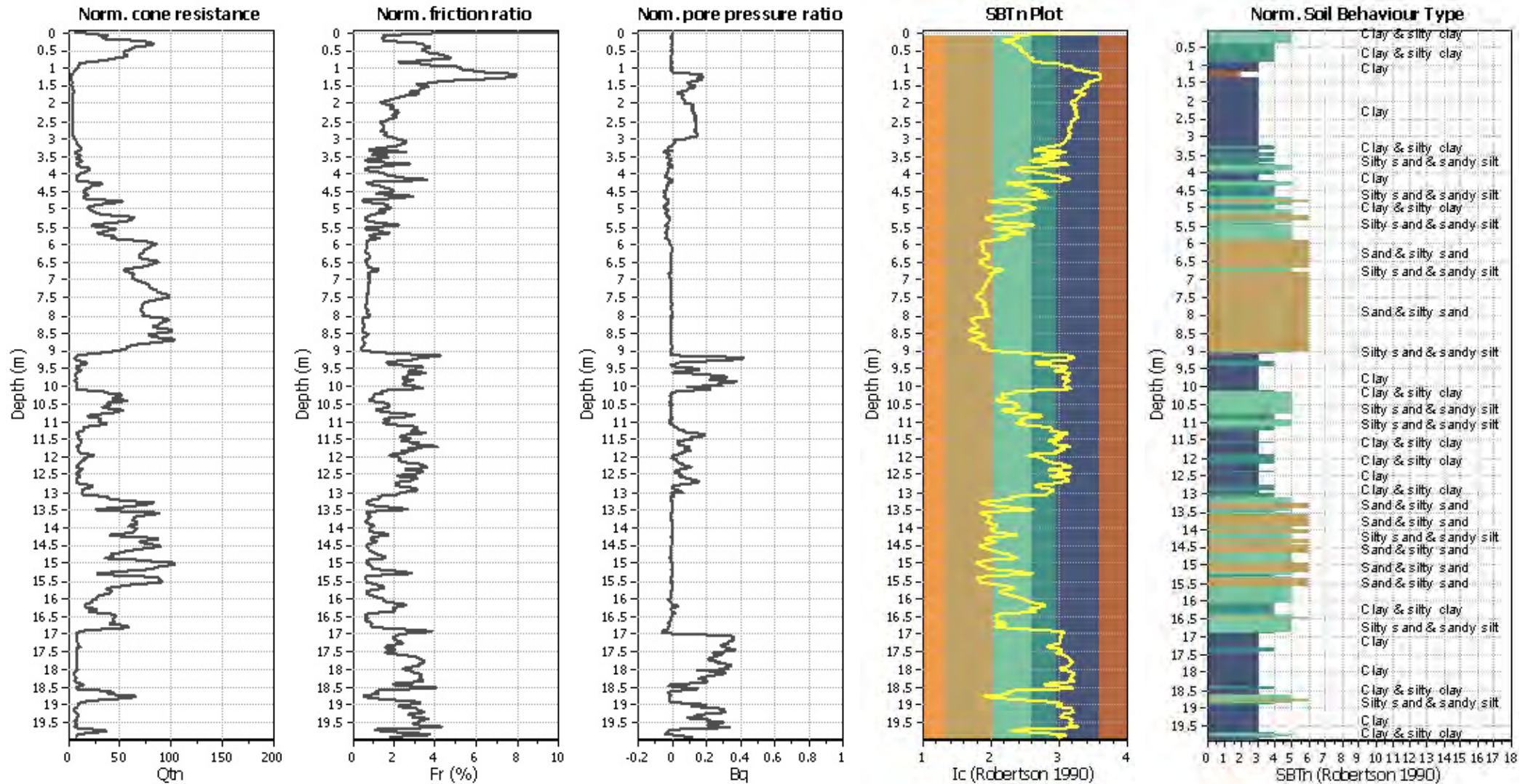
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

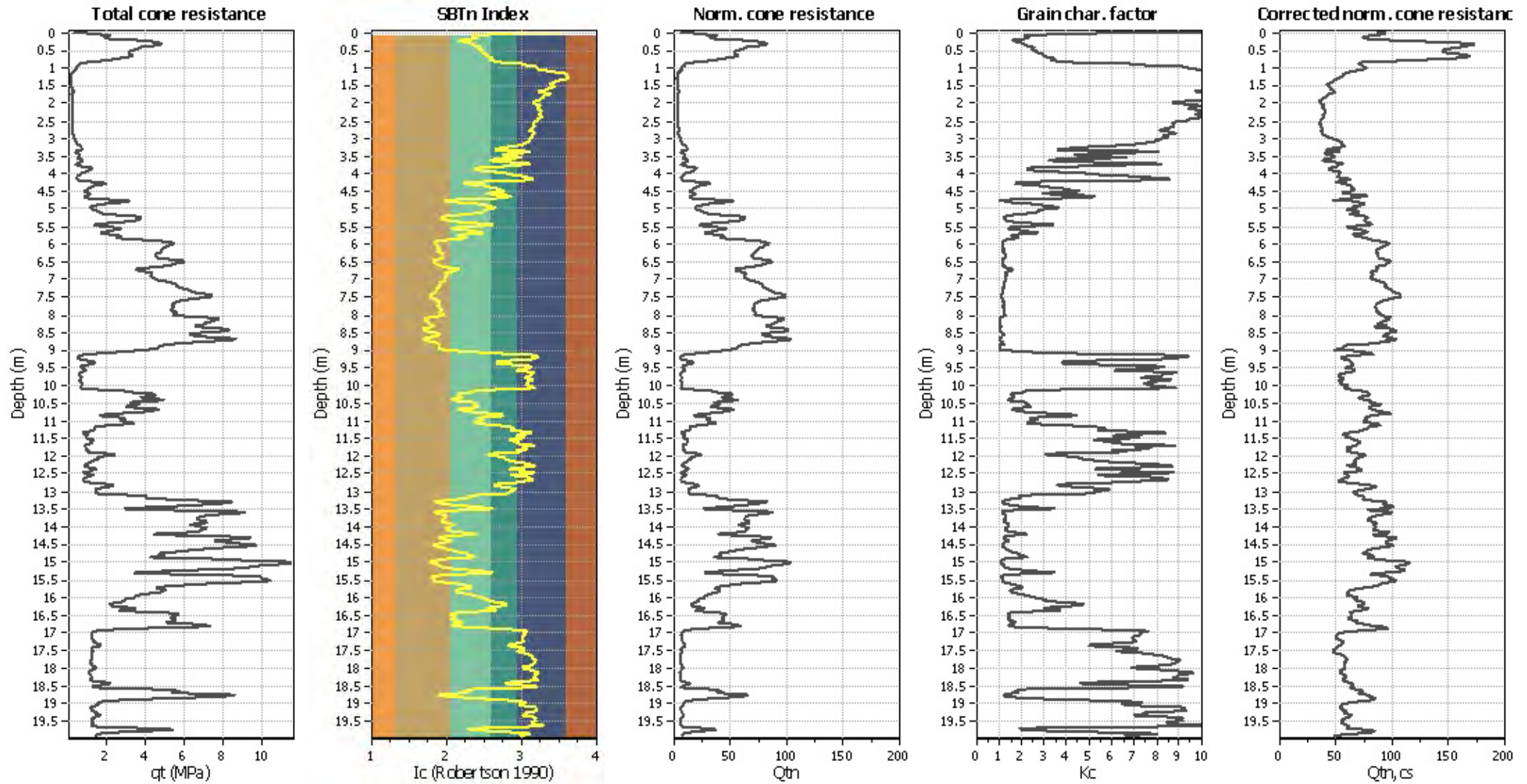
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



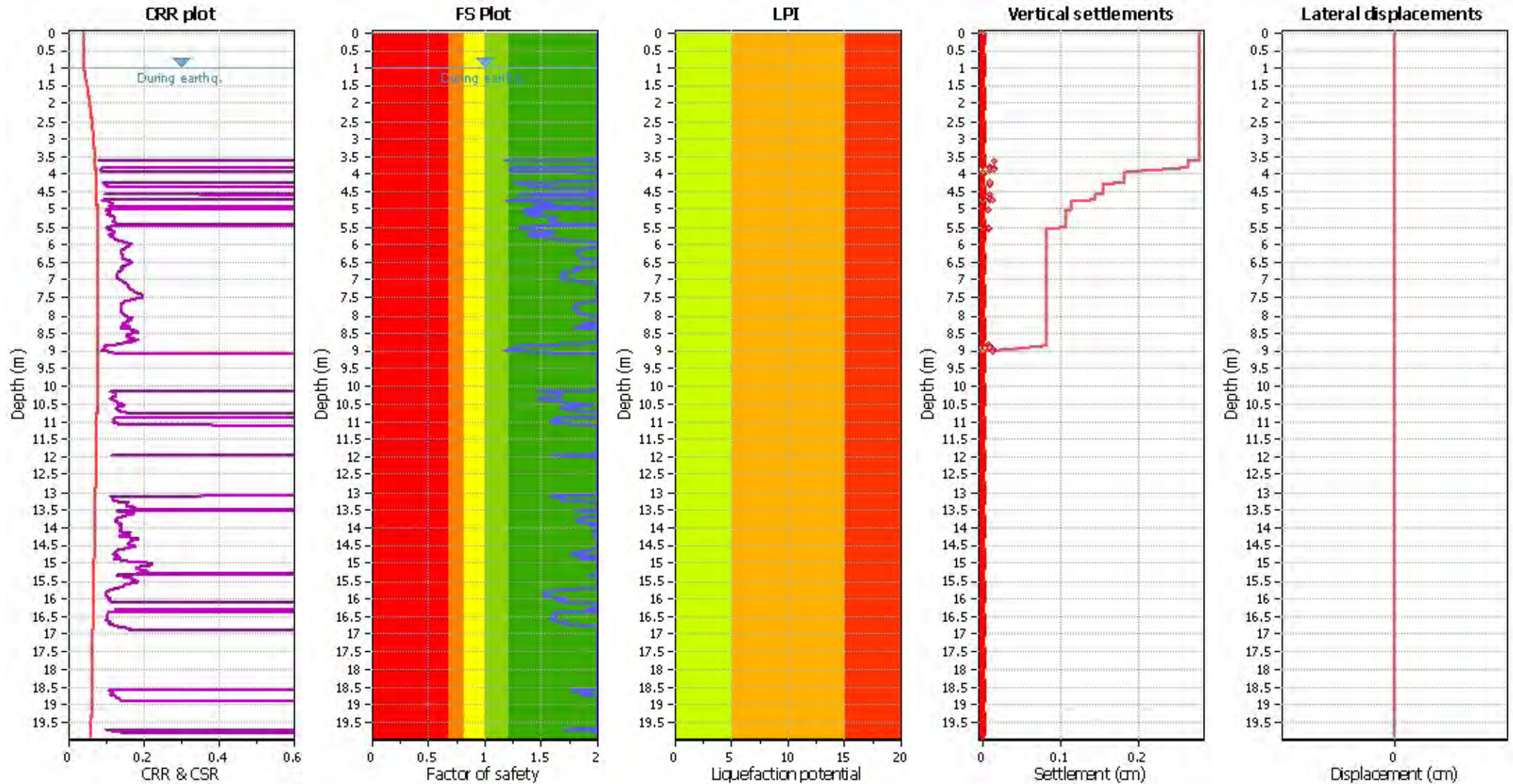
### Liquefaction analysis overall plots (intermediate res)



#### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

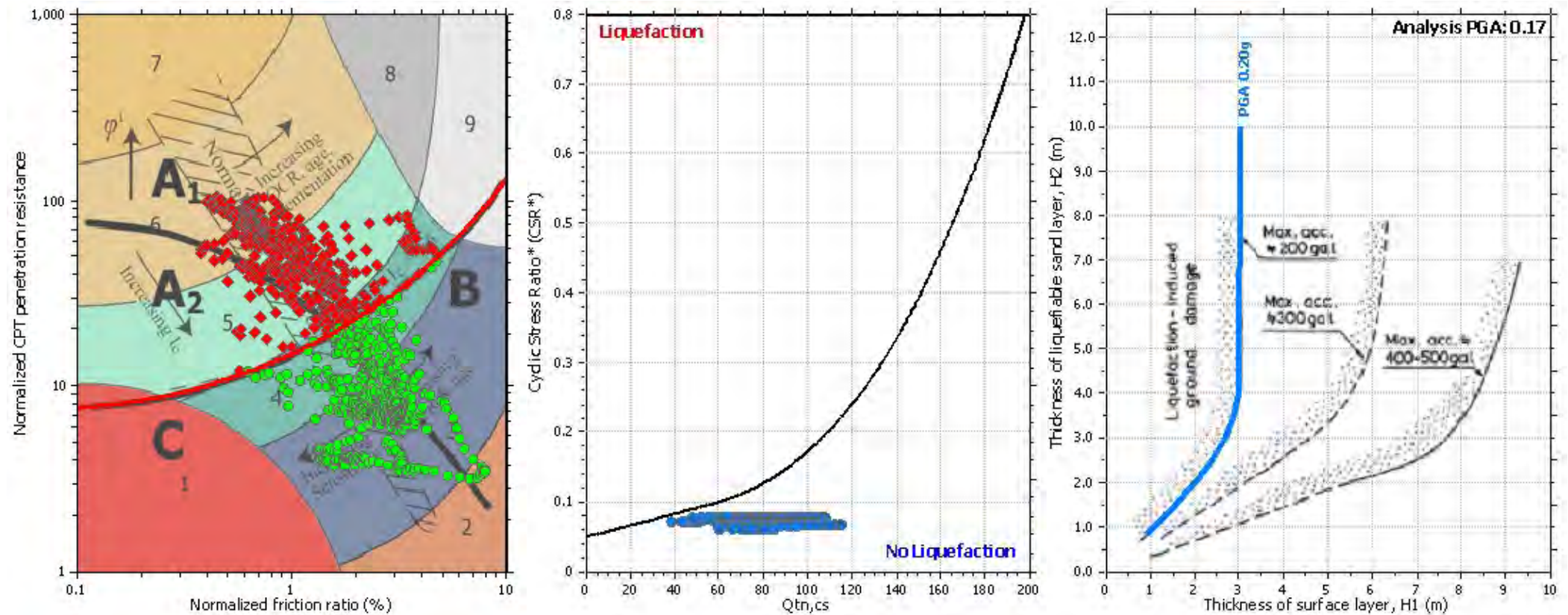
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



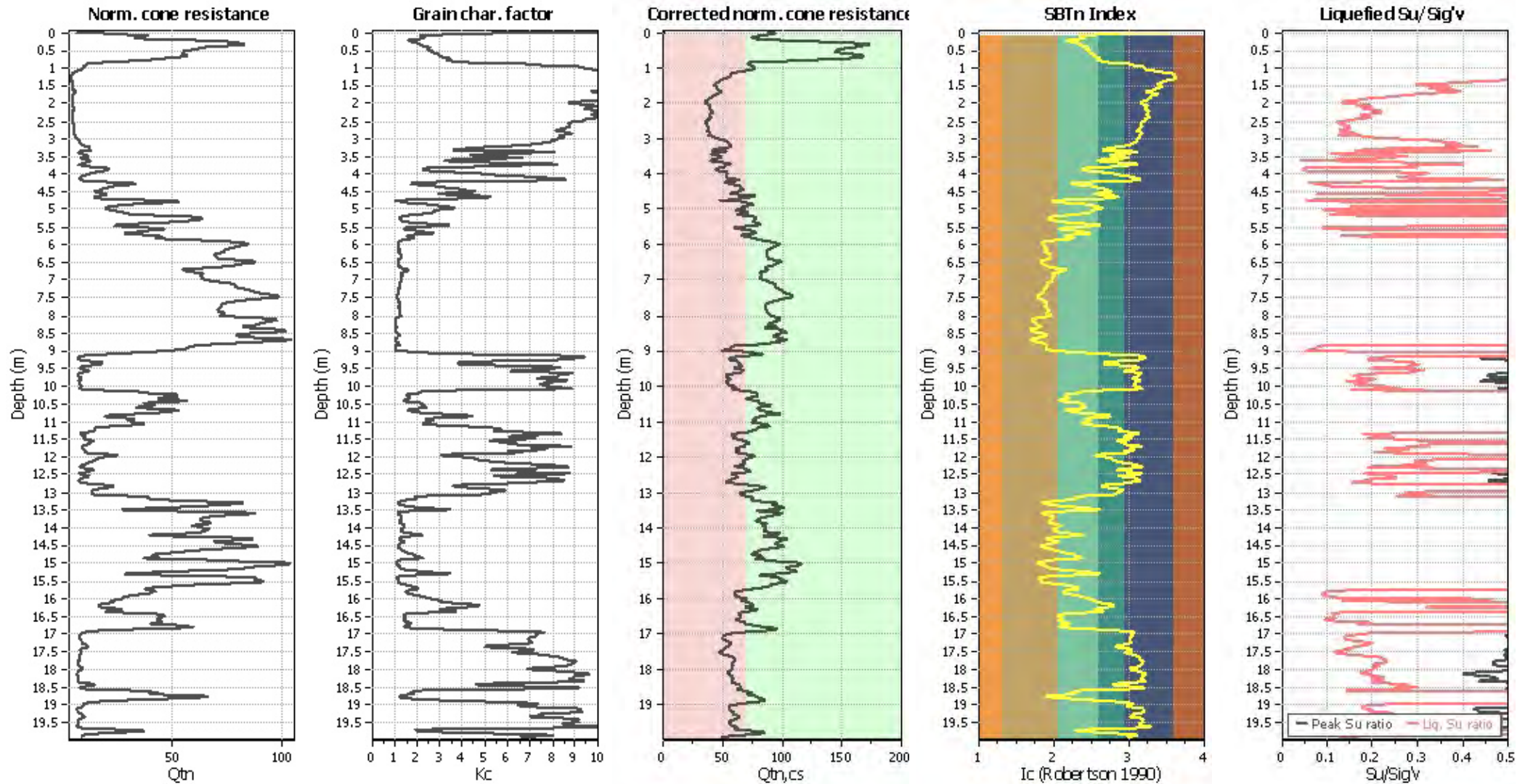
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	5.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	1.18	0.00	8.19	0.02	0.00	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	1.28	0.00	8.10	0.02	0.00
3.82	1.25	0.00	8.09	0.02	0.00	3.84	1.23	0.00	8.08	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	1.21	0.00	8.07	0.02	0.00	3.88	1.21	0.00	8.06	0.02	0.00
3.90	1.25	0.00	8.05	0.02	0.00	3.92	1.29	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	1.26	0.00	7.88	0.02	0.00
4.26	1.29	0.00	7.87	0.02	0.00	4.28	1.33	0.00	7.86	0.02	0.00
4.30	1.35	0.00	7.85	0.02	0.00	4.32	1.37	0.00	7.84	0.02	0.00
4.34	1.40	0.00	7.83	0.02	0.00	4.36	1.42	0.00	7.82	0.02	0.00
4.38	1.42	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	1.30	0.00	7.72	0.02	0.00
4.58	1.38	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	1.27	0.00	7.65	0.02	0.00	4.72	1.27	0.00	7.64	0.02	0.00
4.74	1.20	0.00	7.63	0.02	0.00	4.76	1.44	0.00	7.62	0.02	0.00
4.78	1.48	0.00	7.61	0.02	0.00	4.80	1.51	0.00	7.60	0.02	0.00
4.82	1.56	0.00	7.59	0.02	0.00	4.84	1.60	0.00	7.58	0.02	0.00
4.86	1.58	0.00	7.57	0.02	0.00	4.88	1.49	0.00	7.56	0.02	0.00
4.90	1.44	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	1.37	0.00	7.50	0.02	0.00
5.02	1.33	0.00	7.49	0.02	0.00	5.04	1.36	0.00	7.48	0.02	0.00
5.06	1.44	0.00	7.47	0.02	0.00	5.08	1.50	0.00	7.46	0.02	0.00
5.10	1.49	0.00	7.45	0.02	0.00	5.12	1.41	0.00	7.44	0.02	0.00
5.14	1.36	0.00	7.43	0.02	0.00	5.16	1.38	0.00	7.42	0.02	0.00
5.18	1.46	0.00	7.41	0.02	0.00	5.20	1.57	0.00	7.40	0.02	0.00
5.22	1.63	0.00	7.39	0.02	0.00	5.24	1.64	0.00	7.38	0.02	0.00
5.26	1.63	0.00	7.37	0.02	0.00	5.28	1.62	0.00	7.36	0.02	0.00
5.30	1.60	0.00	7.35	0.02	0.00	5.32	1.57	0.00	7.34	0.02	0.00
5.34	1.58	0.00	7.33	0.02	0.00	5.36	1.60	0.00	7.32	0.02	0.00
5.38	1.65	0.00	7.31	0.02	0.00	5.40	1.68	0.00	7.30	0.02	0.00
5.42	1.72	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	1.46	0.00	7.26	0.02	0.00
5.50	1.35	0.00	7.25	0.02	0.00	5.52	1.31	0.00	7.24	0.02	0.00
5.54	1.33	0.00	7.23	0.02	0.00	5.56	1.38	0.00	7.22	0.02	0.00
5.58	1.44	0.00	7.21	0.02	0.00	5.60	1.52	0.00	7.20	0.02	0.00
5.62	1.59	0.00	7.19	0.02	0.00	5.64	1.63	0.00	7.18	0.02	0.00
5.66	1.57	0.00	7.17	0.02	0.00	5.68	1.46	0.00	7.16	0.02	0.00
5.70	1.39	0.00	7.15	0.02	0.00	5.72	1.39	0.00	7.14	0.02	0.00
5.74	1.43	0.00	7.13	0.02	0.00	5.76	1.49	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	1.55	0.00	7.11	0.02	0.00	5.80	1.61	0.00	7.10	0.02	0.00
5.82	1.63	0.00	7.09	0.02	0.00	5.84	1.63	0.00	7.08	0.02	0.00
5.86	1.66	0.00	7.07	0.02	0.00	5.88	1.75	0.00	7.06	0.02	0.00
5.90	1.85	0.00	7.05	0.02	0.00	5.92	1.95	0.00	7.04	0.02	0.00
5.94	2.00	0.00	7.03	0.02	0.00	5.96	2.00	0.00	7.02	0.02	0.00
5.98	2.00	0.00	7.01	0.02	0.00	6.00	2.00	0.00	7.00	0.02	0.00
6.02	2.00	0.00	6.99	0.02	0.00	6.04	2.00	0.00	6.98	0.02	0.00
6.06	2.00	0.00	6.97	0.02	0.00	6.08	1.96	0.00	6.96	0.02	0.00
6.10	1.93	0.00	6.95	0.02	0.00	6.12	1.88	0.00	6.94	0.02	0.00
6.14	1.85	0.00	6.93	0.02	0.00	6.16	1.82	0.00	6.92	0.02	0.00
6.18	1.81	0.00	6.91	0.02	0.00	6.20	1.81	0.00	6.90	0.02	0.00
6.22	1.81	0.00	6.89	0.02	0.00	6.24	1.82	0.00	6.88	0.02	0.00
6.26	1.82	0.00	6.87	0.02	0.00	6.28	1.84	0.00	6.86	0.02	0.00
6.30	1.83	0.00	6.85	0.02	0.00	6.32	1.84	0.00	6.84	0.02	0.00
6.34	1.85	0.00	6.83	0.02	0.00	6.36	1.86	0.00	6.82	0.02	0.00
6.38	1.86	0.00	6.81	0.02	0.00	6.40	1.89	0.00	6.80	0.02	0.00
6.42	1.97	0.00	6.79	0.02	0.00	6.44	2.00	0.00	6.78	0.02	0.00
6.46	2.00	0.00	6.77	0.02	0.00	6.48	2.00	0.00	6.76	0.02	0.00
6.50	2.00	0.00	6.75	0.02	0.00	6.52	2.00	0.00	6.74	0.02	0.00
6.54	2.00	0.00	6.73	0.02	0.00	6.56	2.00	0.00	6.72	0.02	0.00
6.58	1.92	0.00	6.71	0.02	0.00	6.60	1.85	0.00	6.70	0.02	0.00
6.62	1.80	0.00	6.69	0.02	0.00	6.64	1.79	0.00	6.68	0.02	0.00
6.66	1.81	0.00	6.67	0.02	0.00	6.68	1.83	0.00	6.66	0.02	0.00
6.70	1.85	0.00	6.65	0.02	0.00	6.72	1.84	0.00	6.64	0.02	0.00
6.74	1.79	0.00	6.63	0.02	0.00	6.76	1.72	0.00	6.62	0.02	0.00
6.78	1.68	0.00	6.61	0.02	0.00	6.80	1.67	0.00	6.60	0.02	0.00
6.82	1.69	0.00	6.59	0.02	0.00	6.84	1.71	0.00	6.58	0.02	0.00
6.86	1.71	0.00	6.57	0.02	0.00	6.88	1.72	0.00	6.56	0.02	0.00
6.90	1.70	0.00	6.55	0.02	0.00	6.92	1.68	0.00	6.54	0.02	0.00
6.94	1.66	0.00	6.53	0.02	0.00	6.96	1.68	0.00	6.52	0.02	0.00
6.98	1.73	0.00	6.51	0.02	0.00	7.00	1.78	0.00	6.50	0.02	0.00
7.02	1.82	0.00	6.49	0.02	0.00	7.04	1.86	0.00	6.48	0.02	0.00
7.06	1.91	0.00	6.47	0.02	0.00	7.08	1.97	0.00	6.46	0.02	0.00
7.10	2.00	0.00	6.45	0.02	0.00	7.12	2.00	0.00	6.44	0.02	0.00
7.14	2.00	0.00	6.43	0.02	0.00	7.16	2.00	0.00	6.42	0.02	0.00
7.18	2.00	0.00	6.41	0.02	0.00	7.20	2.00	0.00	6.40	0.02	0.00
7.22	2.00	0.00	6.39	0.02	0.00	7.24	2.00	0.00	6.38	0.02	0.00
7.26	2.00	0.00	6.37	0.02	0.00	7.28	2.00	0.00	6.36	0.02	0.00
7.30	2.00	0.00	6.35	0.02	0.00	7.32	2.00	0.00	6.34	0.02	0.00
7.34	2.00	0.00	6.33	0.02	0.00	7.36	2.00	0.00	6.32	0.02	0.00
7.38	2.00	0.00	6.31	0.02	0.00	7.40	2.00	0.00	6.30	0.02	0.00
7.42	2.00	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	2.00	0.00	6.27	0.02	0.00	7.48	2.00	0.00	6.26	0.02	0.00
7.50	2.00	0.00	6.25	0.02	0.00	7.52	2.00	0.00	6.24	0.02	0.00
7.54	2.00	0.00	6.23	0.02	0.00	7.56	2.00	0.00	6.22	0.02	0.00
7.58	2.00	0.00	6.21	0.02	0.00	7.60	1.96	0.00	6.20	0.02	0.00
7.62	1.92	0.00	6.19	0.02	0.00	7.64	1.88	0.00	6.18	0.02	0.00
7.66	1.84	0.00	6.17	0.02	0.00	7.68	1.81	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	1.80	0.00	6.15	0.02	0.00	7.72	1.80	0.00	6.14	0.02	0.00
7.74	1.79	0.00	6.13	0.02	0.00	7.76	1.78	0.00	6.12	0.02	0.00
7.78	1.79	0.00	6.11	0.02	0.00	7.80	1.80	0.00	6.10	0.02	0.00
7.82	1.81	0.00	6.09	0.02	0.00	7.84	1.82	0.00	6.08	0.02	0.00
7.86	1.81	0.00	6.07	0.02	0.00	7.88	1.82	0.00	6.06	0.02	0.00
7.90	1.83	0.00	6.05	0.02	0.00	7.92	1.85	0.00	6.04	0.02	0.00
7.94	1.86	0.00	6.03	0.02	0.00	7.96	1.87	0.00	6.02	0.02	0.00
7.98	1.91	0.00	6.01	0.02	0.00	8.00	1.94	0.00	6.00	0.02	0.00
8.02	2.00	0.00	5.99	0.02	0.00	8.04	2.00	0.00	5.98	0.02	0.00
8.06	2.00	0.00	5.97	0.02	0.00	8.08	2.00	0.00	5.96	0.02	0.00
8.10	2.00	0.00	5.95	0.02	0.00	8.12	2.00	0.00	5.94	0.02	0.00
8.14	2.00	0.00	5.93	0.02	0.00	8.16	2.00	0.00	5.92	0.02	0.00
8.18	1.99	0.00	5.91	0.02	0.00	8.20	1.94	0.00	5.90	0.02	0.00
8.22	1.90	0.00	5.89	0.02	0.00	8.24	1.88	0.00	5.88	0.02	0.00
8.26	1.86	0.00	5.87	0.02	0.00	8.28	2.00	0.00	5.86	0.02	0.00
8.30	2.00	0.00	5.85	0.02	0.00	8.32	1.99	0.00	5.84	0.02	0.00
8.34	1.98	0.00	5.83	0.02	0.00	8.36	1.79	0.00	5.82	0.02	0.00
8.38	1.95	0.00	5.81	0.02	0.00	8.40	2.00	0.00	5.80	0.02	0.00
8.42	2.00	0.00	5.79	0.02	0.00	8.44	2.00	0.00	5.78	0.02	0.00
8.46	2.00	0.00	5.77	0.02	0.00	8.48	2.00	0.00	5.76	0.02	0.00
8.50	2.00	0.00	5.75	0.02	0.00	8.52	2.00	0.00	5.74	0.02	0.00
8.54	2.00	0.00	5.73	0.02	0.00	8.56	2.00	0.00	5.72	0.02	0.00
8.58	2.00	0.00	5.71	0.02	0.00	8.60	2.00	0.00	5.70	0.02	0.00
8.62	2.00	0.00	5.69	0.02	0.00	8.64	2.00	0.00	5.68	0.02	0.00
8.66	2.00	0.00	5.67	0.02	0.00	8.68	2.00	0.00	5.66	0.02	0.00
8.70	2.00	0.00	5.65	0.02	0.00	8.72	2.00	0.00	5.64	0.02	0.00
8.74	2.00	0.00	5.63	0.02	0.00	8.76	2.00	0.00	5.62	0.02	0.00
8.78	1.86	0.00	5.61	0.02	0.00	8.80	1.72	0.00	5.60	0.02	0.00
8.82	1.61	0.00	5.59	0.02	0.00	8.84	1.32	0.00	5.58	0.02	0.00
8.86	1.29	0.00	5.57	0.02	0.00	8.88	1.27	0.00	5.56	0.02	0.00
8.90	1.27	0.00	5.55	0.02	0.00	8.92	1.26	0.00	5.54	0.02	0.00
8.94	1.25	0.00	5.53	0.02	0.00	8.96	1.22	0.00	5.52	0.02	0.00
8.98	1.18	0.00	5.51	0.02	0.00	9.00	1.37	0.00	5.50	0.02	0.00
9.02	1.45	0.00	5.49	0.02	0.00	9.04	1.56	0.00	5.48	0.02	0.00
9.06	1.66	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	1.46	0.00	4.93	0.02	0.00	10.16	1.54	0.00	4.92	0.02	0.00
10.18	1.62	0.00	4.91	0.02	0.00	10.20	1.64	0.00	4.90	0.02	0.00
10.22	1.65	0.00	4.89	0.02	0.00	10.24	1.68	0.00	4.88	0.02	0.00
10.26	1.67	0.00	4.87	0.02	0.00	10.28	1.61	0.00	4.86	0.02	0.00
10.30	1.55	0.00	4.85	0.02	0.00	10.32	1.50	0.00	4.84	0.02	0.00
10.34	1.48	0.00	4.83	0.02	0.00	10.36	1.50	0.00	4.82	0.02	0.00
10.38	1.58	0.00	4.81	0.02	0.00	10.40	1.66	0.00	4.80	0.02	0.00
10.42	1.70	0.00	4.79	0.02	0.00	10.44	1.69	0.00	4.78	0.02	0.00
10.46	1.71	0.00	4.77	0.02	0.00	10.48	1.76	0.00	4.76	0.02	0.00
10.50	1.87	0.00	4.75	0.02	0.00	10.52	1.96	0.00	4.74	0.02	0.00
10.54	1.92	0.00	4.73	0.02	0.00	10.56	1.81	0.00	4.72	0.02	0.00
10.58	1.71	0.00	4.71	0.02	0.00	10.60	1.67	0.00	4.70	0.02	0.00
10.62	1.67	0.00	4.69	0.02	0.00	10.64	1.71	0.00	4.68	0.02	0.00
10.66	1.75	0.00	4.67	0.02	0.00	10.68	1.80	0.00	4.66	0.02	0.00
10.70	1.87	0.00	4.65	0.02	0.00	10.72	1.98	0.00	4.64	0.02	0.00
10.74	2.00	0.00	4.63	0.02	0.00	10.76	2.00	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	1.65	0.00	4.55	0.02	0.00	10.92	1.60	0.00	4.54	0.02	0.00
10.94	1.61	0.00	4.53	0.02	0.00	10.96	1.67	0.00	4.52	0.02	0.00
10.98	1.67	0.00	4.51	0.02	0.00	11.00	1.61	0.00	4.50	0.02	0.00
11.02	1.59	0.00	4.49	0.02	0.00	11.04	1.65	0.00	4.48	0.02	0.00
11.06	1.74	0.00	4.47	0.02	0.00	11.08	1.85	0.00	4.46	0.02	0.00
11.10	1.94	0.00	4.45	0.02	0.00	11.12	2.00	0.00	4.44	0.02	0.00
11.14	2.00	0.00	4.43	0.02	0.00	11.16	2.00	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	1.59	0.00	4.03	0.02	0.00	11.96	1.64	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	2.00	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	2.00	0.00	3.61	0.02	0.00	12.80	2.00	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	2.00	0.00	3.51	0.02	0.00	13.00	2.00	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	1.57	0.00	3.46	0.02	0.00
13.10	1.63	0.00	3.45	0.02	0.00	13.12	1.68	0.00	3.44	0.02	0.00
13.14	1.70	0.00	3.43	0.02	0.00	13.16	1.69	0.00	3.42	0.02	0.00
13.18	1.67	0.00	3.41	0.02	0.00	13.20	1.68	0.00	3.40	0.02	0.00
13.22	1.74	0.00	3.39	0.02	0.00	13.24	1.89	0.00	3.38	0.02	0.00
13.26	2.00	0.00	3.37	0.02	0.00	13.28	2.00	0.00	3.36	0.02	0.00
13.30	2.00	0.00	3.35	0.02	0.00	13.32	2.00	0.00	3.34	0.02	0.00
13.34	2.00	0.00	3.33	0.02	0.00	13.36	2.00	0.00	3.32	0.02	0.00
13.38	2.00	0.00	3.31	0.02	0.00	13.40	2.00	0.00	3.30	0.02	0.00
13.42	2.00	0.00	3.29	0.02	0.00	13.44	2.00	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	2.00	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	1.98	0.00	3.25	0.02	0.00	13.52	1.80	0.00	3.24	0.02	0.00
13.54	1.93	0.00	3.23	0.02	0.00	13.56	2.00	0.00	3.22	0.02	0.00
13.58	2.00	0.00	3.21	0.02	0.00	13.60	2.00	0.00	3.20	0.02	0.00
13.62	2.00	0.00	3.19	0.02	0.00	13.64	2.00	0.00	3.18	0.02	0.00
13.66	2.00	0.00	3.17	0.02	0.00	13.68	2.00	0.00	3.16	0.02	0.00
13.70	1.94	0.00	3.15	0.02	0.00	13.72	1.89	0.00	3.14	0.02	0.00
13.74	1.85	0.00	3.13	0.02	0.00	13.76	1.83	0.00	3.12	0.02	0.00
13.78	1.81	0.00	3.11	0.02	0.00	13.80	1.80	0.00	3.10	0.02	0.00
13.82	1.83	0.00	3.09	0.02	0.00	13.84	1.89	0.00	3.08	0.02	0.00
13.86	1.93	0.00	3.07	0.02	0.00	13.88	2.00	0.00	3.06	0.02	0.00
13.90	1.99	0.00	3.05	0.02	0.00	13.92	1.99	0.00	3.04	0.02	0.00
13.94	1.93	0.00	3.03	0.02	0.00	13.96	1.98	0.00	3.02	0.02	0.00
13.98	2.00	0.00	3.01	0.02	0.00	14.00	2.00	0.00	3.00	0.02	0.00
14.02	1.99	0.00	2.99	0.02	0.00	14.04	1.97	0.00	2.98	0.02	0.00
14.06	1.96	0.00	2.97	0.02	0.00	14.08	1.99	0.00	2.96	0.02	0.00
14.10	2.00	0.00	2.95	0.02	0.00	14.12	2.00	0.00	2.94	0.02	0.00
14.14	2.00	0.00	2.93	0.02	0.00	14.16	2.00	0.00	2.92	0.02	0.00
14.18	2.00	0.00	2.91	0.02	0.00	14.20	2.00	0.00	2.90	0.02	0.00
14.22	1.97	0.00	2.89	0.02	0.00	14.24	1.98	0.00	2.88	0.02	0.00
14.26	2.00	0.00	2.87	0.02	0.00	14.28	2.00	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	2.00	0.00	2.82	0.02	0.00
14.38	2.00	0.00	2.81	0.02	0.00	14.40	2.00	0.00	2.80	0.02	0.00
14.42	2.00	0.00	2.79	0.02	0.00	14.44	2.00	0.00	2.78	0.02	0.00
14.46	2.00	0.00	2.77	0.02	0.00	14.48	2.00	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	2.00	0.00	2.73	0.02	0.00	14.56	2.00	0.00	2.72	0.02	0.00
14.58	2.00	0.00	2.71	0.02	0.00	14.60	2.00	0.00	2.70	0.02	0.00
14.62	1.96	0.00	2.69	0.02	0.00	14.64	1.89	0.00	2.68	0.02	0.00
14.66	1.85	0.00	2.67	0.02	0.00	14.68	1.84	0.00	2.66	0.02	0.00
14.70	1.81	0.00	2.65	0.02	0.00	14.72	1.76	0.00	2.64	0.02	0.00
14.74	1.76	0.00	2.63	0.02	0.00	14.76	1.83	0.00	2.62	0.02	0.00
14.78	1.93	0.00	2.61	0.02	0.00	14.80	1.98	0.00	2.60	0.02	0.00
14.82	1.97	0.00	2.59	0.02	0.00	14.84	1.92	0.00	2.58	0.02	0.00
14.86	1.85	0.00	2.57	0.02	0.00	14.88	1.85	0.00	2.56	0.02	0.00
14.90	2.00	0.00	2.55	0.02	0.00	14.92	2.00	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	2.00	0.00	2.35	0.02	0.00	15.32	2.00	0.00	2.34	0.02	0.00
15.34	1.93	0.00	2.33	0.02	0.00	15.36	2.00	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	2.00	0.00	2.31	0.02	0.00	15.40	2.00	0.00	2.30	0.02	0.00
15.42	2.00	0.00	2.29	0.02	0.00	15.44	2.00	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	2.00	0.00	2.22	0.02	0.00
15.58	2.00	0.00	2.21	0.02	0.00	15.60	2.00	0.00	2.20	0.02	0.00
15.62	2.00	0.00	2.19	0.02	0.00	15.64	2.00	0.00	2.18	0.02	0.00
15.66	2.00	0.00	2.17	0.02	0.00	15.68	2.00	0.00	2.16	0.02	0.00
15.70	1.92	0.00	2.15	0.02	0.00	15.72	1.82	0.00	2.14	0.02	0.00
15.74	1.76	0.00	2.13	0.02	0.00	15.76	1.70	0.00	2.12	0.02	0.00
15.78	1.64	0.00	2.11	0.02	0.00	15.80	1.58	0.00	2.10	0.02	0.00
15.82	1.55	0.00	2.09	0.02	0.00	15.84	1.53	0.00	2.08	0.02	0.00
15.86	1.53	0.00	2.07	0.02	0.00	15.88	1.53	0.00	2.06	0.02	0.00
15.90	1.55	0.00	2.05	0.02	0.00	15.92	1.55	0.00	2.04	0.02	0.00
15.94	1.56	0.00	2.03	0.02	0.00	15.96	1.62	0.00	2.02	0.02	0.00
15.98	1.70	0.00	2.01	0.02	0.00	16.00	1.71	0.00	2.00	0.02	0.00
16.02	1.66	0.00	1.99	0.02	0.00	16.04	1.64	0.00	1.98	0.02	0.00
16.06	1.67	0.00	1.97	0.02	0.00	16.08	1.71	0.00	1.96	0.02	0.00
16.10	1.77	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	1.91	0.00	1.86	0.02	0.00
16.30	1.96	0.00	1.85	0.02	0.00	16.32	1.90	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	1.66	0.00	1.81	0.02	0.00	16.40	1.60	0.00	1.80	0.02	0.00
16.42	1.61	0.00	1.79	0.02	0.00	16.44	1.62	0.00	1.78	0.02	0.00
16.46	1.63	0.00	1.77	0.02	0.00	16.48	1.63	0.00	1.76	0.02	0.00
16.50	1.63	0.00	1.75	0.02	0.00	16.52	1.63	0.00	1.74	0.02	0.00
16.54	1.63	0.00	1.73	0.02	0.00	16.56	1.62	0.00	1.72	0.02	0.00
16.58	1.60	0.00	1.71	0.02	0.00	16.60	1.59	0.00	1.70	0.02	0.00
16.62	1.59	0.00	1.69	0.02	0.00	16.64	1.63	0.00	1.68	0.02	0.00
16.66	1.68	0.00	1.67	0.02	0.00	16.68	1.73	0.00	1.66	0.02	0.00
16.70	1.73	0.00	1.65	0.02	0.00	16.72	1.71	0.00	1.64	0.02	0.00
16.74	1.73	0.00	1.63	0.02	0.00	16.76	1.85	0.00	1.62	0.02	0.00
16.78	2.00	0.00	1.61	0.02	0.00	16.80	2.00	0.00	1.60	0.02	0.00
16.82	2.00	0.00	1.59	0.02	0.00	16.84	2.00	0.00	1.58	0.02	0.00
16.86	2.00	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	2.00	0.00	1.54	0.02	0.00
16.94	2.00	0.00	1.53	0.02	0.00	16.96	2.00	0.00	1.52	0.02	0.00
16.98	2.00	0.00	1.51	0.02	0.00	17.00	2.00	0.00	1.50	0.02	0.00
17.02	2.00	0.00	1.49	0.02	0.00	17.04	2.00	0.00	1.48	0.02	0.00
17.06	2.00	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	1.77	0.00	0.70	0.02	0.00
18.62	1.90	0.00	0.69	0.02	0.00	18.64	1.94	0.00	0.68	0.02	0.00
18.66	1.93	0.00	0.67	0.02	0.00	18.68	1.88	0.00	0.66	0.02	0.00
18.70	1.86	0.00	0.65	0.02	0.00	18.72	1.93	0.00	0.64	0.02	0.00
18.74	2.00	0.00	0.63	0.02	0.00	18.76	2.00	0.00	0.62	0.02	0.00
18.78	2.00	0.00	0.61	0.02	0.00	18.80	2.00	0.00	0.60	0.02	0.00
18.82	2.00	0.00	0.59	0.02	0.00	18.84	2.00	0.00	0.58	0.02	0.00
18.86	2.00	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	1.70	0.00	0.16	0.02	0.00
19.70	1.81	0.00	0.15	0.02	0.00	19.72	2.00	0.00	0.14	0.02	0.00
19.74	2.00	0.00	0.13	0.02	0.00	19.76	2.00	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

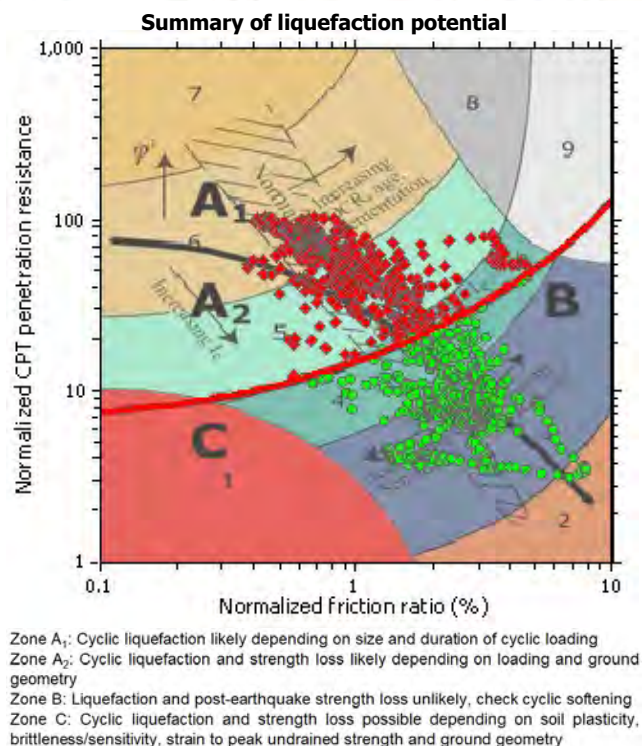
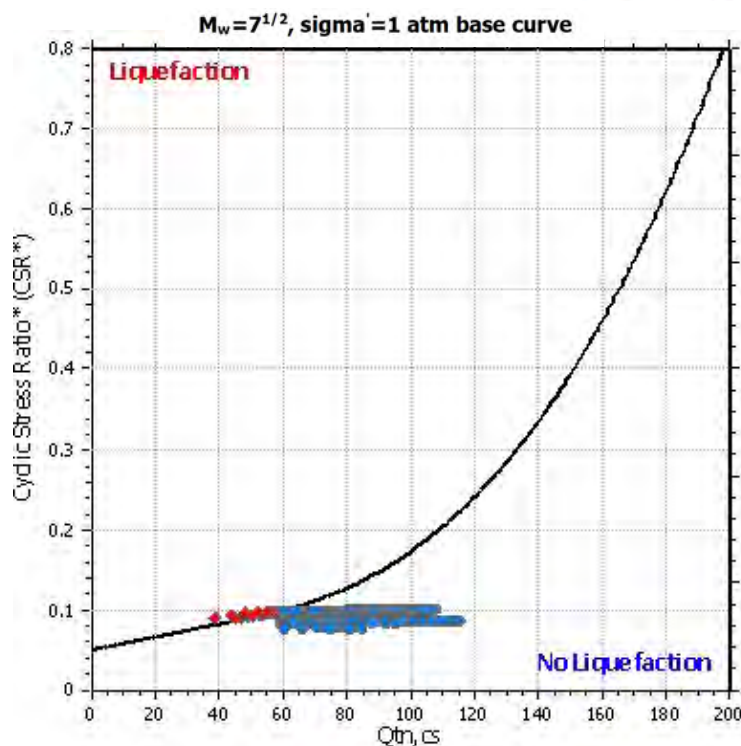
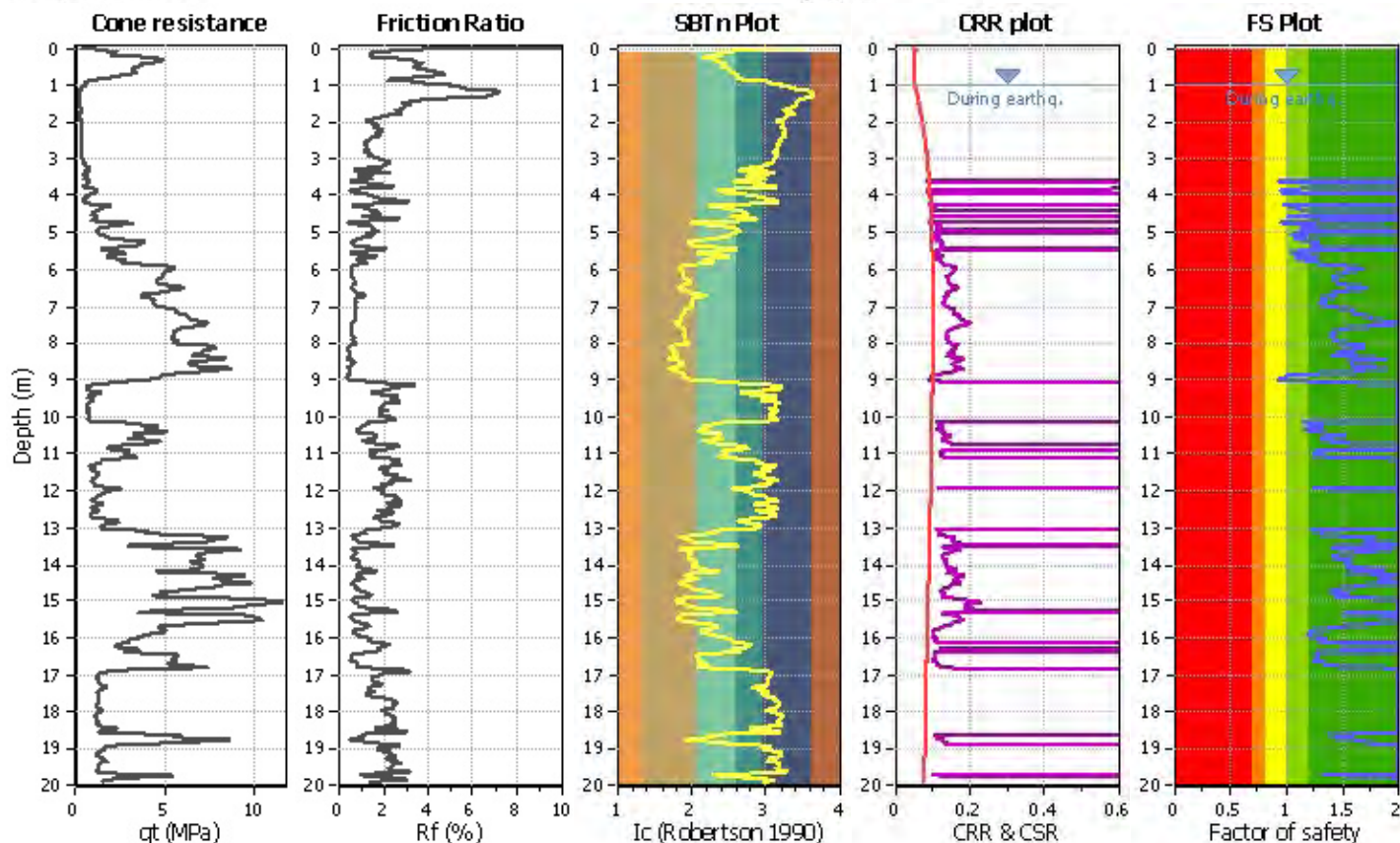
**Project title :**

**Location :**

**CPT file : CPTU4**

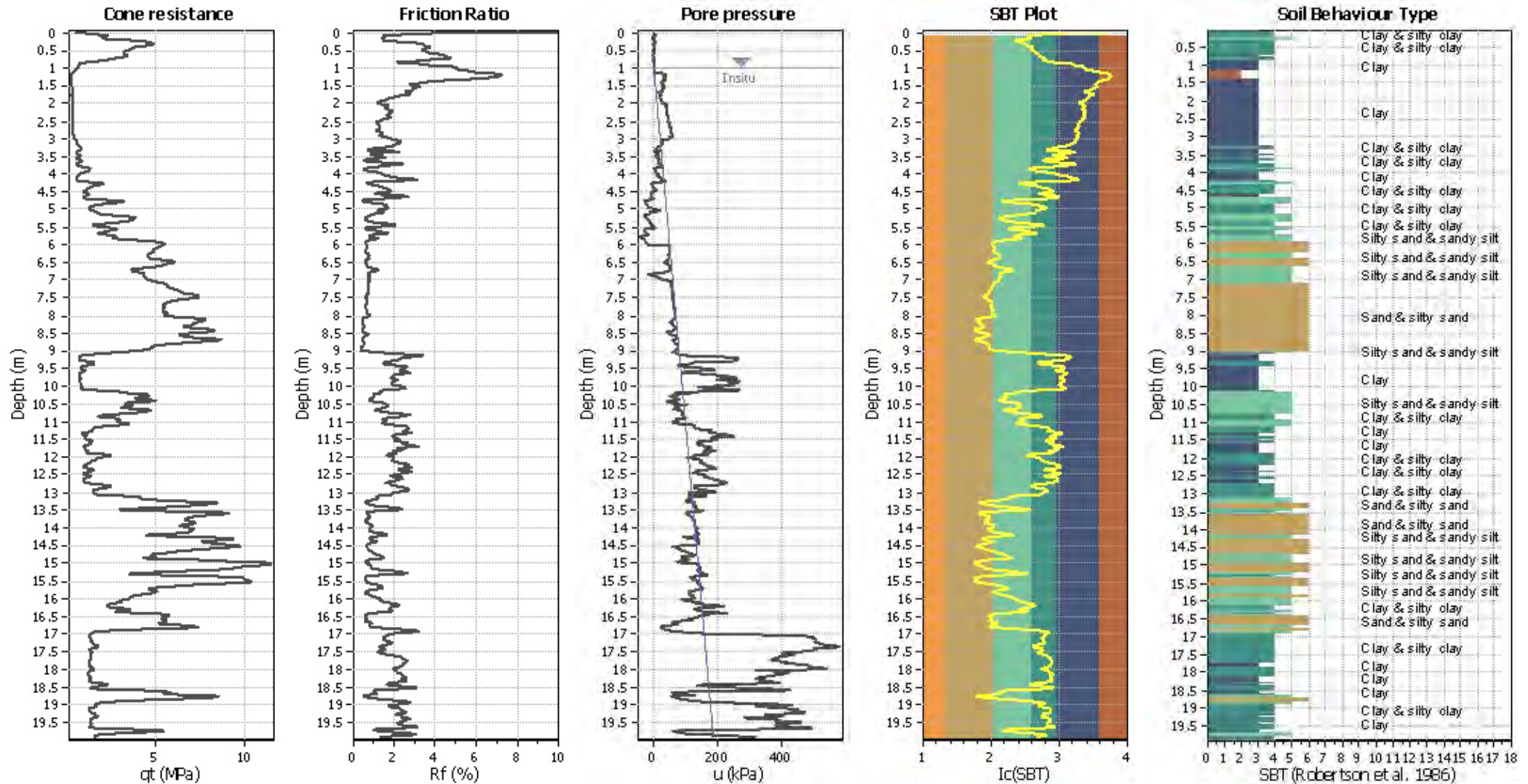
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	5.50	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



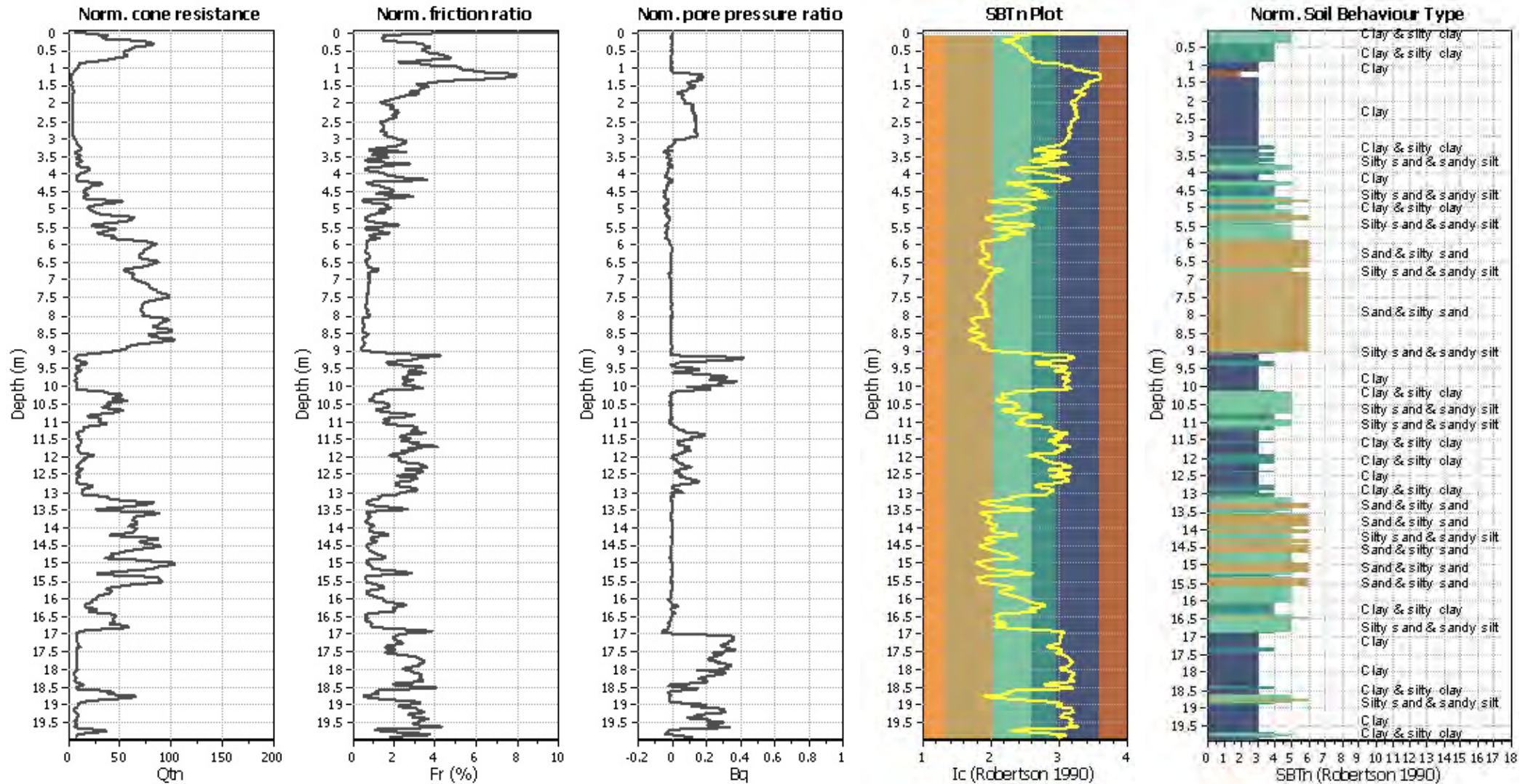
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

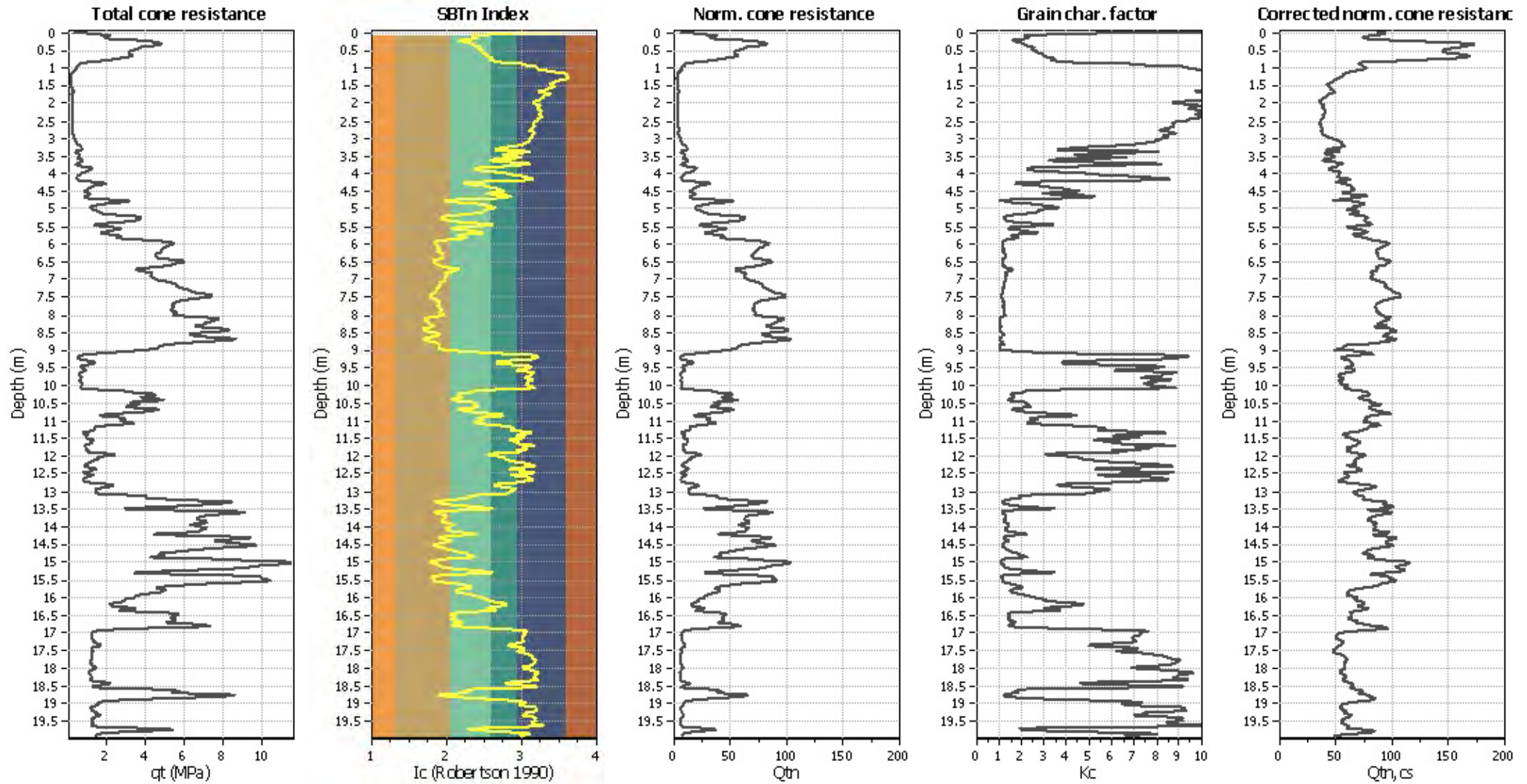
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



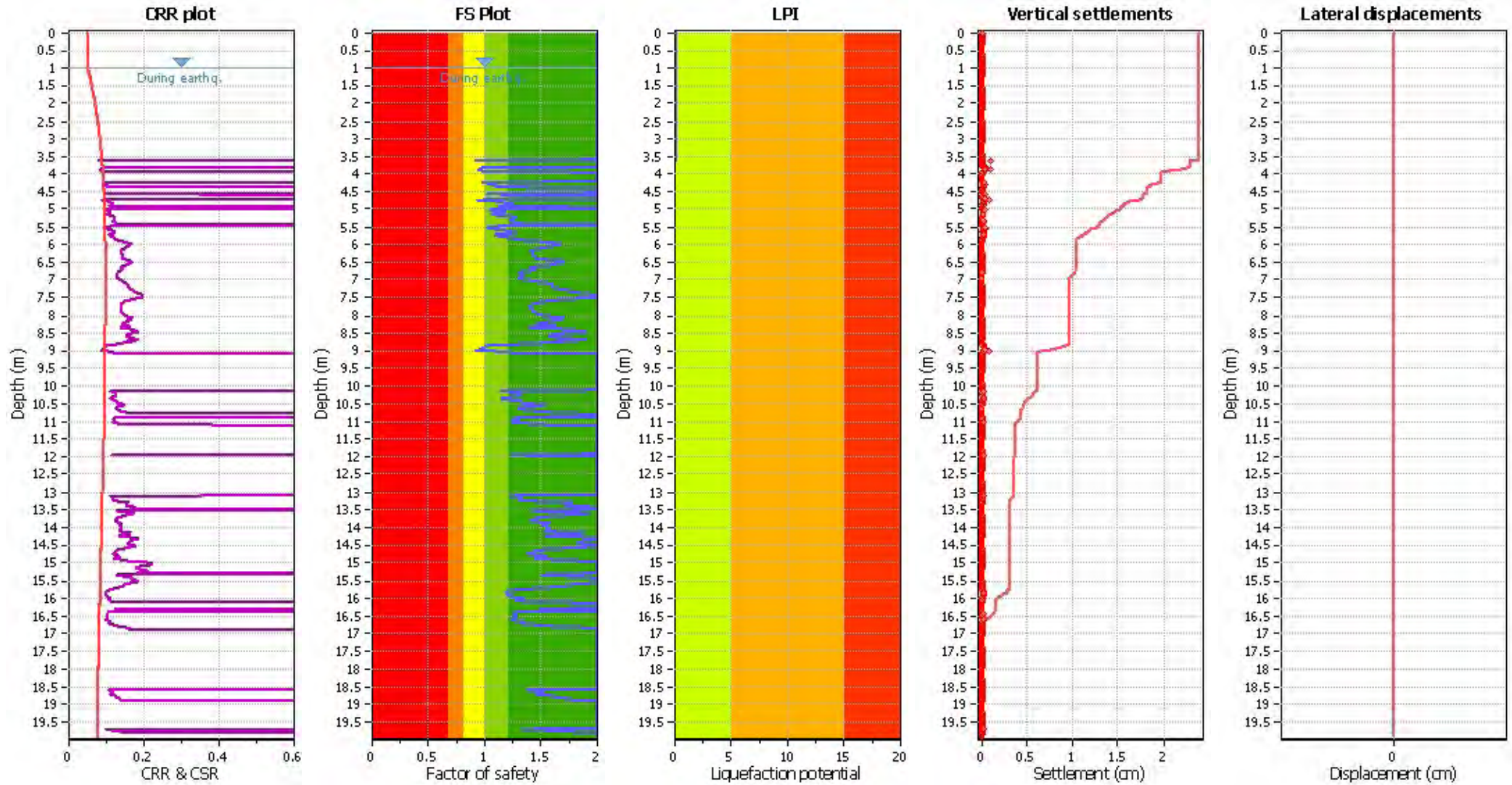
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

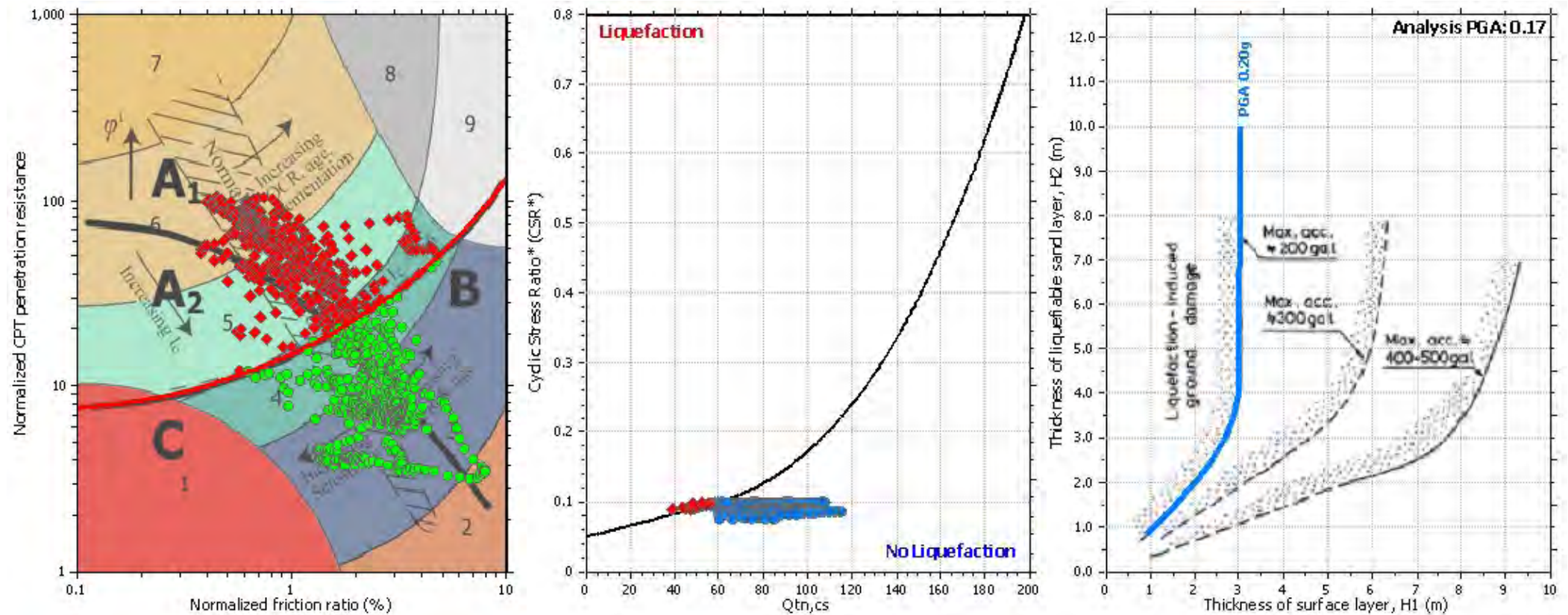
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



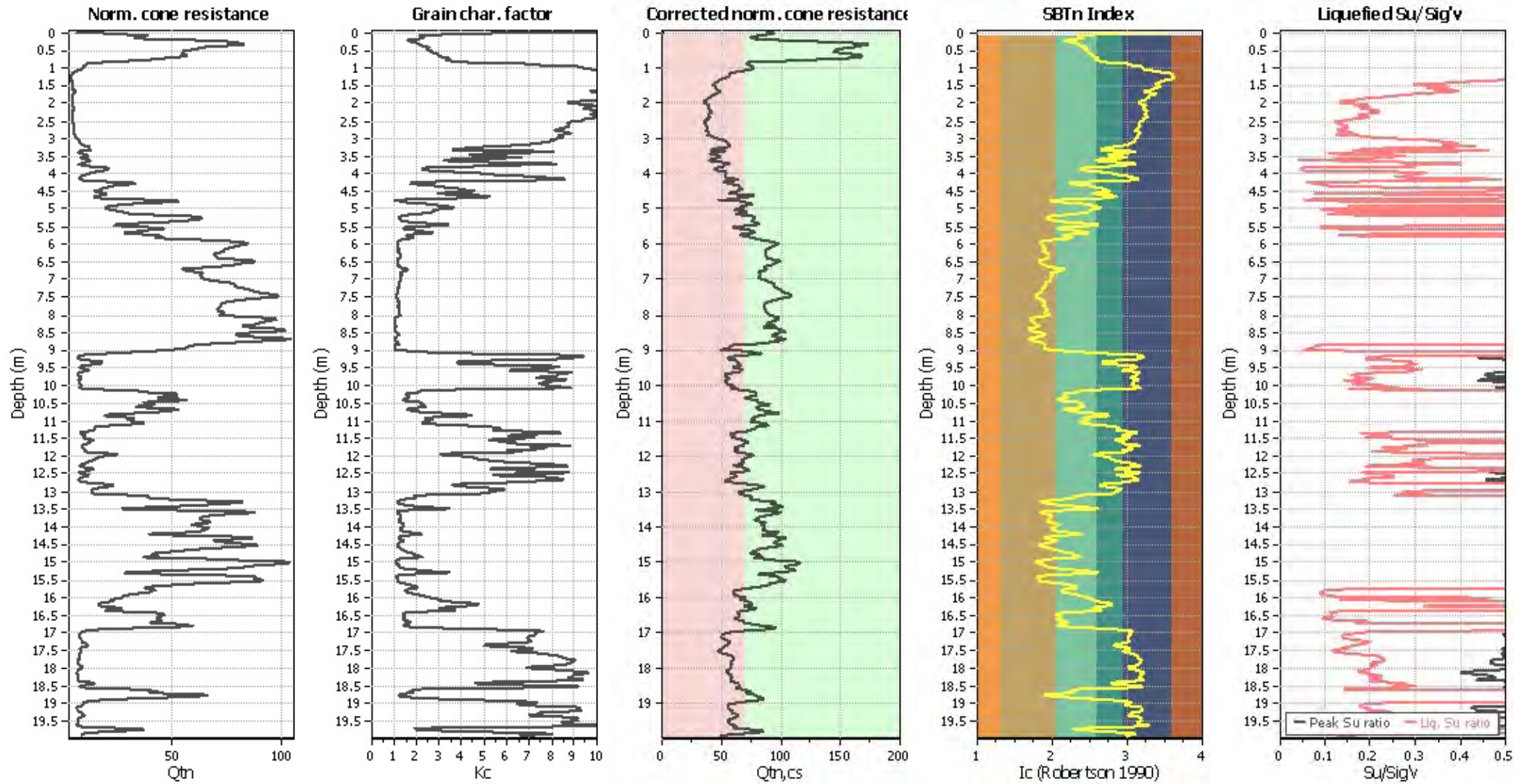
## Liquefaction analysis summary plo



## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	5.50	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	0.92	0.08	8.19	0.02	0.01	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	1.01	0.00	8.10	0.02	0.00
3.82	0.98	0.02	8.09	0.02	0.00	3.84	0.96	0.04	8.08	0.02	0.01

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	0.95	0.05	8.07	0.02	0.01	3.88	0.95	0.05	8.06	0.02	0.01
3.90	0.98	0.02	8.05	0.02	0.00	3.92	1.01	0.00	8.04	0.02	0.00
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	0.99	0.01	7.88	0.02	0.00
4.26	1.01	0.00	7.87	0.02	0.00	4.28	1.04	0.00	7.86	0.02	0.00
4.30	1.06	0.00	7.85	0.02	0.00	4.32	1.08	0.00	7.84	0.02	0.00
4.34	1.10	0.00	7.83	0.02	0.00	4.36	1.12	0.00	7.82	0.02	0.00
4.38	1.12	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	1.02	0.00	7.72	0.02	0.00
4.58	1.08	0.00	7.71	0.02	0.00	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	1.00	0.00	7.65	0.02	0.00	4.72	1.00	0.00	7.64	0.02	0.00
4.74	0.94	0.06	7.63	0.02	0.01	4.76	1.12	0.00	7.62	0.02	0.00
4.78	1.16	0.00	7.61	0.02	0.00	4.80	1.18	0.00	7.60	0.02	0.00
4.82	1.22	0.00	7.59	0.02	0.00	4.84	1.26	0.00	7.58	0.02	0.00
4.86	1.24	0.00	7.57	0.02	0.00	4.88	1.17	0.00	7.56	0.02	0.00
4.90	1.13	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	1.07	0.00	7.50	0.02	0.00
5.02	1.04	0.00	7.49	0.02	0.00	5.04	1.06	0.00	7.48	0.02	0.00
5.06	1.13	0.00	7.47	0.02	0.00	5.08	1.18	0.00	7.46	0.02	0.00
5.10	1.16	0.00	7.45	0.02	0.00	5.12	1.11	0.00	7.44	0.02	0.00
5.14	1.06	0.00	7.43	0.02	0.00	5.16	1.08	0.00	7.42	0.02	0.00
5.18	1.14	0.00	7.41	0.02	0.00	5.20	1.23	0.00	7.40	0.02	0.00
5.22	1.28	0.00	7.39	0.02	0.00	5.24	1.28	0.00	7.38	0.02	0.00
5.26	1.28	0.00	7.37	0.02	0.00	5.28	1.27	0.00	7.36	0.02	0.00
5.30	1.25	0.00	7.35	0.02	0.00	5.32	1.23	0.00	7.34	0.02	0.00
5.34	1.24	0.00	7.33	0.02	0.00	5.36	1.26	0.00	7.32	0.02	0.00
5.38	1.29	0.00	7.31	0.02	0.00	5.40	1.32	0.00	7.30	0.02	0.00
5.42	1.34	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	1.14	0.00	7.26	0.02	0.00
5.50	1.06	0.00	7.25	0.02	0.00	5.52	1.03	0.00	7.24	0.02	0.00
5.54	1.05	0.00	7.23	0.02	0.00	5.56	1.08	0.00	7.22	0.02	0.00
5.58	1.13	0.00	7.21	0.02	0.00	5.60	1.19	0.00	7.20	0.02	0.00
5.62	1.25	0.00	7.19	0.02	0.00	5.64	1.28	0.00	7.18	0.02	0.00
5.66	1.23	0.00	7.17	0.02	0.00	5.68	1.15	0.00	7.16	0.02	0.00
5.70	1.09	0.00	7.15	0.02	0.00	5.72	1.09	0.00	7.14	0.02	0.00
5.74	1.12	0.00	7.13	0.02	0.00	5.76	1.17	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	1.22	0.00	7.11	0.02	0.00	5.80	1.26	0.00	7.10	0.02	0.00
5.82	1.28	0.00	7.09	0.02	0.00	5.84	1.27	0.00	7.08	0.02	0.00
5.86	1.30	0.00	7.07	0.02	0.00	5.88	1.37	0.00	7.06	0.02	0.00
5.90	1.45	0.00	7.05	0.02	0.00	5.92	1.53	0.00	7.04	0.02	0.00
5.94	1.58	0.00	7.03	0.02	0.00	5.96	1.64	0.00	7.02	0.02	0.00
5.98	1.68	0.00	7.01	0.02	0.00	6.00	1.67	0.00	7.00	0.02	0.00
6.02	1.63	0.00	6.99	0.02	0.00	6.04	1.59	0.00	6.98	0.02	0.00
6.06	1.57	0.00	6.97	0.02	0.00	6.08	1.54	0.00	6.96	0.02	0.00
6.10	1.51	0.00	6.95	0.02	0.00	6.12	1.48	0.00	6.94	0.02	0.00
6.14	1.45	0.00	6.93	0.02	0.00	6.16	1.42	0.00	6.92	0.02	0.00
6.18	1.42	0.00	6.91	0.02	0.00	6.20	1.42	0.00	6.90	0.02	0.00
6.22	1.42	0.00	6.89	0.02	0.00	6.24	1.42	0.00	6.88	0.02	0.00
6.26	1.43	0.00	6.87	0.02	0.00	6.28	1.44	0.00	6.86	0.02	0.00
6.30	1.44	0.00	6.85	0.02	0.00	6.32	1.44	0.00	6.84	0.02	0.00
6.34	1.45	0.00	6.83	0.02	0.00	6.36	1.46	0.00	6.82	0.02	0.00
6.38	1.46	0.00	6.81	0.02	0.00	6.40	1.48	0.00	6.80	0.02	0.00
6.42	1.54	0.00	6.79	0.02	0.00	6.44	1.62	0.00	6.78	0.02	0.00
6.46	1.69	0.00	6.77	0.02	0.00	6.48	1.71	0.00	6.76	0.02	0.00
6.50	1.70	0.00	6.75	0.02	0.00	6.52	1.67	0.00	6.74	0.02	0.00
6.54	1.62	0.00	6.73	0.02	0.00	6.56	1.57	0.00	6.72	0.02	0.00
6.58	1.50	0.00	6.71	0.02	0.00	6.60	1.45	0.00	6.70	0.02	0.00
6.62	1.41	0.00	6.69	0.02	0.00	6.64	1.40	0.00	6.68	0.02	0.00
6.66	1.41	0.00	6.67	0.02	0.00	6.68	1.43	0.00	6.66	0.02	0.00
6.70	1.45	0.00	6.65	0.02	0.00	6.72	1.44	0.00	6.64	0.02	0.00
6.74	1.40	0.00	6.63	0.02	0.00	6.76	1.35	0.00	6.62	0.02	0.00
6.78	1.32	0.00	6.61	0.02	0.00	6.80	1.31	0.00	6.60	0.02	0.00
6.82	1.33	0.00	6.59	0.02	0.00	6.84	1.34	0.00	6.58	0.02	0.00
6.86	1.34	0.00	6.57	0.02	0.00	6.88	1.35	0.00	6.56	0.02	0.00
6.90	1.34	0.00	6.55	0.02	0.00	6.92	1.32	0.00	6.54	0.02	0.00
6.94	1.30	0.00	6.53	0.02	0.00	6.96	1.32	0.00	6.52	0.02	0.00
6.98	1.36	0.00	6.51	0.02	0.00	7.00	1.39	0.00	6.50	0.02	0.00
7.02	1.43	0.00	6.49	0.02	0.00	7.04	1.46	0.00	6.48	0.02	0.00
7.06	1.50	0.00	6.47	0.02	0.00	7.08	1.54	0.00	6.46	0.02	0.00
7.10	1.58	0.00	6.45	0.02	0.00	7.12	1.60	0.00	6.44	0.02	0.00
7.14	1.60	0.00	6.43	0.02	0.00	7.16	1.60	0.00	6.42	0.02	0.00
7.18	1.60	0.00	6.41	0.02	0.00	7.20	1.61	0.00	6.40	0.02	0.00
7.22	1.62	0.00	6.39	0.02	0.00	7.24	1.65	0.00	6.38	0.02	0.00
7.26	1.69	0.00	6.37	0.02	0.00	7.28	1.73	0.00	6.36	0.02	0.00
7.30	1.75	0.00	6.35	0.02	0.00	7.32	1.77	0.00	6.34	0.02	0.00
7.34	1.80	0.00	6.33	0.02	0.00	7.36	1.83	0.00	6.32	0.02	0.00
7.38	1.88	0.00	6.31	0.02	0.00	7.40	1.93	0.00	6.30	0.02	0.00
7.42	1.98	0.00	6.29	0.02	0.00	7.44	2.00	0.00	6.28	0.02	0.00
7.46	1.99	0.00	6.27	0.02	0.00	7.48	1.95	0.00	6.26	0.02	0.00
7.50	1.88	0.00	6.25	0.02	0.00	7.52	1.81	0.00	6.24	0.02	0.00
7.54	1.72	0.00	6.23	0.02	0.00	7.56	1.65	0.00	6.22	0.02	0.00
7.58	1.58	0.00	6.21	0.02	0.00	7.60	1.54	0.00	6.20	0.02	0.00
7.62	1.50	0.00	6.19	0.02	0.00	7.64	1.47	0.00	6.18	0.02	0.00
7.66	1.44	0.00	6.17	0.02	0.00	7.68	1.42	0.00	6.16	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	1.41	0.00	6.15	0.02	0.00	7.72	1.41	0.00	6.14	0.02	0.00
7.74	1.40	0.00	6.13	0.02	0.00	7.76	1.40	0.00	6.12	0.02	0.00
7.78	1.40	0.00	6.11	0.02	0.00	7.80	1.41	0.00	6.10	0.02	0.00
7.82	1.42	0.00	6.09	0.02	0.00	7.84	1.42	0.00	6.08	0.02	0.00
7.86	1.42	0.00	6.07	0.02	0.00	7.88	1.43	0.00	6.06	0.02	0.00
7.90	1.44	0.00	6.05	0.02	0.00	7.92	1.45	0.00	6.04	0.02	0.00
7.94	1.46	0.00	6.03	0.02	0.00	7.96	1.47	0.00	6.02	0.02	0.00
7.98	1.49	0.00	6.01	0.02	0.00	8.00	1.52	0.00	6.00	0.02	0.00
8.02	1.57	0.00	5.99	0.02	0.00	8.04	1.62	0.00	5.98	0.02	0.00
8.06	1.71	0.00	5.97	0.02	0.00	8.08	1.62	0.00	5.96	0.02	0.00
8.10	1.68	0.00	5.95	0.02	0.00	8.12	1.69	0.00	5.94	0.02	0.00
8.14	1.65	0.00	5.93	0.02	0.00	8.16	1.61	0.00	5.92	0.02	0.00
8.18	1.56	0.00	5.91	0.02	0.00	8.20	1.52	0.00	5.90	0.02	0.00
8.22	1.49	0.00	5.89	0.02	0.00	8.24	1.48	0.00	5.88	0.02	0.00
8.26	1.46	0.00	5.87	0.02	0.00	8.28	1.63	0.00	5.86	0.02	0.00
8.30	1.59	0.00	5.85	0.02	0.00	8.32	1.56	0.00	5.84	0.02	0.00
8.34	1.55	0.00	5.83	0.02	0.00	8.36	1.40	0.00	5.82	0.02	0.00
8.38	1.52	0.00	5.81	0.02	0.00	8.40	1.69	0.00	5.80	0.02	0.00
8.42	1.80	0.00	5.79	0.02	0.00	8.44	1.80	0.00	5.78	0.02	0.00
8.46	1.89	0.00	5.77	0.02	0.00	8.48	1.80	0.00	5.76	0.02	0.00
8.50	1.70	0.00	5.75	0.02	0.00	8.52	1.63	0.00	5.74	0.02	0.00
8.54	1.60	0.00	5.73	0.02	0.00	8.56	1.58	0.00	5.72	0.02	0.00
8.58	1.58	0.00	5.71	0.02	0.00	8.60	1.60	0.00	5.70	0.02	0.00
8.62	1.69	0.00	5.69	0.02	0.00	8.64	1.65	0.00	5.68	0.02	0.00
8.66	1.84	0.00	5.67	0.02	0.00	8.68	1.90	0.00	5.66	0.02	0.00
8.70	1.80	0.00	5.65	0.02	0.00	8.72	1.63	0.00	5.64	0.02	0.00
8.74	1.70	0.00	5.63	0.02	0.00	8.76	1.57	0.00	5.62	0.02	0.00
8.78	1.46	0.00	5.61	0.02	0.00	8.80	1.35	0.00	5.60	0.02	0.00
8.82	1.26	0.00	5.59	0.02	0.00	8.84	1.03	0.00	5.58	0.02	0.00
8.86	1.01	0.00	5.57	0.02	0.00	8.88	1.00	0.00	5.56	0.02	0.00
8.90	1.00	0.00	5.55	0.02	0.00	8.92	0.99	0.01	5.54	0.02	0.00
8.94	0.98	0.02	5.53	0.02	0.00	8.96	0.96	0.04	5.52	0.02	0.00
8.98	0.92	0.08	5.51	0.02	0.01	9.00	1.07	0.00	5.50	0.02	0.00
9.02	1.13	0.00	5.49	0.02	0.00	9.04	1.22	0.00	5.48	0.02	0.00
9.06	1.30	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	1.14	0.00	4.93	0.02	0.00	10.16	1.21	0.00	4.92	0.02	0.00
10.18	1.27	0.00	4.91	0.02	0.00	10.20	1.29	0.00	4.90	0.02	0.00
10.22	1.30	0.00	4.89	0.02	0.00	10.24	1.32	0.00	4.88	0.02	0.00
10.26	1.31	0.00	4.87	0.02	0.00	10.28	1.26	0.00	4.86	0.02	0.00
10.30	1.21	0.00	4.85	0.02	0.00	10.32	1.18	0.00	4.84	0.02	0.00
10.34	1.16	0.00	4.83	0.02	0.00	10.36	1.17	0.00	4.82	0.02	0.00
10.38	1.24	0.00	4.81	0.02	0.00	10.40	1.30	0.00	4.80	0.02	0.00
10.42	1.33	0.00	4.79	0.02	0.00	10.44	1.32	0.00	4.78	0.02	0.00
10.46	1.34	0.00	4.77	0.02	0.00	10.48	1.38	0.00	4.76	0.02	0.00
10.50	1.47	0.00	4.75	0.02	0.00	10.52	1.53	0.00	4.74	0.02	0.00
10.54	1.51	0.00	4.73	0.02	0.00	10.56	1.41	0.00	4.72	0.02	0.00
10.58	1.34	0.00	4.71	0.02	0.00	10.60	1.31	0.00	4.70	0.02	0.00
10.62	1.31	0.00	4.69	0.02	0.00	10.64	1.34	0.00	4.68	0.02	0.00
10.66	1.37	0.00	4.67	0.02	0.00	10.68	1.41	0.00	4.66	0.02	0.00
10.70	1.47	0.00	4.65	0.02	0.00	10.72	1.55	0.00	4.64	0.02	0.00
10.74	1.62	0.00	4.63	0.02	0.00	10.76	1.72	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	1.29	0.00	4.55	0.02	0.00	10.92	1.26	0.00	4.54	0.02	0.00
10.94	1.26	0.00	4.53	0.02	0.00	10.96	1.30	0.00	4.52	0.02	0.00
10.98	1.31	0.00	4.51	0.02	0.00	11.00	1.27	0.00	4.50	0.02	0.00
11.02	1.25	0.00	4.49	0.02	0.00	11.04	1.29	0.00	4.48	0.02	0.00
11.06	1.37	0.00	4.47	0.02	0.00	11.08	1.45	0.00	4.46	0.02	0.00
11.10	1.52	0.00	4.45	0.02	0.00	11.12	2.00	0.00	4.44	0.02	0.00
11.14	2.00	0.00	4.43	0.02	0.00	11.16	2.00	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	1.24	0.00	4.03	0.02	0.00	11.96	1.29	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	2.00	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	2.00	0.00	3.61	0.02	0.00	12.80	2.00	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	2.00	0.00	3.51	0.02	0.00	13.00	2.00	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	1.23	0.00	3.46	0.02	0.00
13.10	1.28	0.00	3.45	0.02	0.00	13.12	1.32	0.00	3.44	0.02	0.00
13.14	1.33	0.00	3.43	0.02	0.00	13.16	1.33	0.00	3.42	0.02	0.00
13.18	1.31	0.00	3.41	0.02	0.00	13.20	1.31	0.00	3.40	0.02	0.00
13.22	1.36	0.00	3.39	0.02	0.00	13.24	1.48	0.00	3.38	0.02	0.00
13.26	1.65	0.00	3.37	0.02	0.00	13.28	1.76	0.00	3.36	0.02	0.00
13.30	1.78	0.00	3.35	0.02	0.00	13.32	1.76	0.00	3.34	0.02	0.00
13.34	1.72	0.00	3.33	0.02	0.00	13.36	1.70	0.00	3.32	0.02	0.00
13.38	1.74	0.00	3.31	0.02	0.00	13.40	1.87	0.00	3.30	0.02	0.00
13.42	1.97	0.00	3.29	0.02	0.00	13.44	1.96	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	1.84	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	1.55	0.00	3.25	0.02	0.00	13.52	1.41	0.00	3.24	0.02	0.00
13.54	1.51	0.00	3.23	0.02	0.00	13.56	1.77	0.00	3.22	0.02	0.00
13.58	1.94	0.00	3.21	0.02	0.00	13.60	1.93	0.00	3.20	0.02	0.00
13.62	1.85	0.00	3.19	0.02	0.00	13.64	1.75	0.00	3.18	0.02	0.00
13.66	1.66	0.00	3.17	0.02	0.00	13.68	1.59	0.00	3.16	0.02	0.00
13.70	1.52	0.00	3.15	0.02	0.00	13.72	1.48	0.00	3.14	0.02	0.00
13.74	1.45	0.00	3.13	0.02	0.00	13.76	1.43	0.00	3.12	0.02	0.00
13.78	1.42	0.00	3.11	0.02	0.00	13.80	1.41	0.00	3.10	0.02	0.00
13.82	1.43	0.00	3.09	0.02	0.00	13.84	1.48	0.00	3.08	0.02	0.00
13.86	1.51	0.00	3.07	0.02	0.00	13.88	1.58	0.00	3.06	0.02	0.00
13.90	1.56	0.00	3.05	0.02	0.00	13.92	1.56	0.00	3.04	0.02	0.00
13.94	1.51	0.00	3.03	0.02	0.00	13.96	1.55	0.00	3.02	0.02	0.00
13.98	1.57	0.00	3.01	0.02	0.00	14.00	1.58	0.00	3.00	0.02	0.00
14.02	1.56	0.00	2.99	0.02	0.00	14.04	1.54	0.00	2.98	0.02	0.00
14.06	1.54	0.00	2.97	0.02	0.00	14.08	1.56	0.00	2.96	0.02	0.00
14.10	1.64	0.00	2.95	0.02	0.00	14.12	1.77	0.00	2.94	0.02	0.00
14.14	1.88	0.00	2.93	0.02	0.00	14.16	1.85	0.00	2.92	0.02	0.00
14.18	1.75	0.00	2.91	0.02	0.00	14.20	1.62	0.00	2.90	0.02	0.00
14.22	1.54	0.00	2.89	0.02	0.00	14.24	1.55	0.00	2.88	0.02	0.00
14.26	1.71	0.00	2.87	0.02	0.00	14.28	1.96	0.00	2.86	0.02	0.00
14.30	2.00	0.00	2.85	0.02	0.00	14.32	2.00	0.00	2.84	0.02	0.00
14.34	2.00	0.00	2.83	0.02	0.00	14.36	1.95	0.00	2.82	0.02	0.00
14.38	1.90	0.00	2.81	0.02	0.00	14.40	1.87	0.00	2.80	0.02	0.00
14.42	1.84	0.00	2.79	0.02	0.00	14.44	1.82	0.00	2.78	0.02	0.00
14.46	1.83	0.00	2.77	0.02	0.00	14.48	1.90	0.00	2.76	0.02	0.00
14.50	2.00	0.00	2.75	0.02	0.00	14.52	2.00	0.00	2.74	0.02	0.00
14.54	1.95	0.00	2.73	0.02	0.00	14.56	1.83	0.00	2.72	0.02	0.00
14.58	1.72	0.00	2.71	0.02	0.00	14.60	1.62	0.00	2.70	0.02	0.00
14.62	1.54	0.00	2.69	0.02	0.00	14.64	1.48	0.00	2.68	0.02	0.00
14.66	1.45	0.00	2.67	0.02	0.00	14.68	1.44	0.00	2.66	0.02	0.00
14.70	1.42	0.00	2.65	0.02	0.00	14.72	1.38	0.00	2.64	0.02	0.00
14.74	1.38	0.00	2.63	0.02	0.00	14.76	1.44	0.00	2.62	0.02	0.00
14.78	1.51	0.00	2.61	0.02	0.00	14.80	1.55	0.00	2.60	0.02	0.00
14.82	1.54	0.00	2.59	0.02	0.00	14.84	1.50	0.00	2.58	0.02	0.00
14.86	1.45	0.00	2.57	0.02	0.00	14.88	1.45	0.00	2.56	0.02	0.00
14.90	1.59	0.00	2.55	0.02	0.00	14.92	1.85	0.00	2.54	0.02	0.00
14.94	2.00	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	2.00	0.00	2.45	0.02	0.00	15.12	2.00	0.00	2.44	0.02	0.00
15.14	2.00	0.00	2.43	0.02	0.00	15.16	2.00	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	2.00	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	1.78	0.00	2.35	0.02	0.00	15.32	1.57	0.00	2.34	0.02	0.00
15.34	1.51	0.00	2.33	0.02	0.00	15.36	1.64	0.00	2.32	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	1.83	0.00	2.31	0.02	0.00	15.40	1.94	0.00	2.30	0.02	0.00
15.42	1.98	0.00	2.29	0.02	0.00	15.44	1.99	0.00	2.28	0.02	0.00
15.46	2.00	0.00	2.27	0.02	0.00	15.48	2.00	0.00	2.26	0.02	0.00
15.50	2.00	0.00	2.25	0.02	0.00	15.52	2.00	0.00	2.24	0.02	0.00
15.54	2.00	0.00	2.23	0.02	0.00	15.56	1.97	0.00	2.22	0.02	0.00
15.58	1.84	0.00	2.21	0.02	0.00	15.60	1.78	0.00	2.20	0.02	0.00
15.62	1.75	0.00	2.19	0.02	0.00	15.64	1.73	0.00	2.18	0.02	0.00
15.66	1.68	0.00	2.17	0.02	0.00	15.68	1.59	0.00	2.16	0.02	0.00
15.70	1.50	0.00	2.15	0.02	0.00	15.72	1.42	0.00	2.14	0.02	0.00
15.74	1.38	0.00	2.13	0.02	0.00	15.76	1.33	0.00	2.12	0.02	0.00
15.78	1.29	0.00	2.11	0.02	0.00	15.80	1.24	0.00	2.10	0.02	0.00
15.82	1.21	0.00	2.09	0.02	0.00	15.84	1.20	0.00	2.08	0.02	0.00
15.86	1.20	0.00	2.07	0.02	0.00	15.88	1.20	0.00	2.06	0.02	0.00
15.90	1.22	0.00	2.05	0.02	0.00	15.92	1.21	0.00	2.04	0.02	0.00
15.94	1.22	0.00	2.03	0.02	0.00	15.96	1.27	0.00	2.02	0.02	0.00
15.98	1.33	0.00	2.01	0.02	0.00	16.00	1.34	0.00	2.00	0.02	0.00
16.02	1.30	0.00	1.99	0.02	0.00	16.04	1.29	0.00	1.98	0.02	0.00
16.06	1.31	0.00	1.97	0.02	0.00	16.08	1.34	0.00	1.96	0.02	0.00
16.10	1.38	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	1.50	0.00	1.86	0.02	0.00
16.30	1.53	0.00	1.85	0.02	0.00	16.32	1.49	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	1.30	0.00	1.81	0.02	0.00	16.40	1.26	0.00	1.80	0.02	0.00
16.42	1.26	0.00	1.79	0.02	0.00	16.44	1.27	0.00	1.78	0.02	0.00
16.46	1.27	0.00	1.77	0.02	0.00	16.48	1.27	0.00	1.76	0.02	0.00
16.50	1.28	0.00	1.75	0.02	0.00	16.52	1.28	0.00	1.74	0.02	0.00
16.54	1.28	0.00	1.73	0.02	0.00	16.56	1.27	0.00	1.72	0.02	0.00
16.58	1.25	0.00	1.71	0.02	0.00	16.60	1.24	0.00	1.70	0.02	0.00
16.62	1.25	0.00	1.69	0.02	0.00	16.64	1.27	0.00	1.68	0.02	0.00
16.66	1.32	0.00	1.67	0.02	0.00	16.68	1.35	0.00	1.66	0.02	0.00
16.70	1.35	0.00	1.65	0.02	0.00	16.72	1.34	0.00	1.64	0.02	0.00
16.74	1.36	0.00	1.63	0.02	0.00	16.76	1.45	0.00	1.62	0.02	0.00
16.78	1.60	0.00	1.61	0.02	0.00	16.80	1.77	0.00	1.60	0.02	0.00
16.82	1.89	0.00	1.59	0.02	0.00	16.84	1.97	0.00	1.58	0.02	0.00
16.86	1.99	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	2.00	0.00	1.54	0.02	0.00
16.94	2.00	0.00	1.53	0.02	0.00	16.96	2.00	0.00	1.52	0.02	0.00
16.98	2.00	0.00	1.51	0.02	0.00	17.00	2.00	0.00	1.50	0.02	0.00
17.02	2.00	0.00	1.49	0.02	0.00	17.04	2.00	0.00	1.48	0.02	0.00
17.06	2.00	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	1.39	0.00	0.70	0.02	0.00
18.62	1.49	0.00	0.69	0.02	0.00	18.64	1.52	0.00	0.68	0.02	0.00
18.66	1.51	0.00	0.67	0.02	0.00	18.68	1.47	0.00	0.66	0.02	0.00
18.70	1.46	0.00	0.65	0.02	0.00	18.72	1.51	0.00	0.64	0.02	0.00
18.74	1.60	0.00	0.63	0.02	0.00	18.76	1.63	0.00	0.62	0.02	0.00
18.78	1.64	0.00	0.61	0.02	0.00	18.80	1.67	0.00	0.60	0.02	0.00
18.82	1.72	0.00	0.59	0.02	0.00	18.84	1.77	0.00	0.58	0.02	0.00
18.86	1.78	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	1.33	0.00	0.16	0.02	0.00
19.70	1.42	0.00	0.15	0.02	0.00	19.72	1.58	0.00	0.14	0.02	0.00
19.74	1.72	0.00	0.13	0.02	0.00	19.76	1.82	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 0.07**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

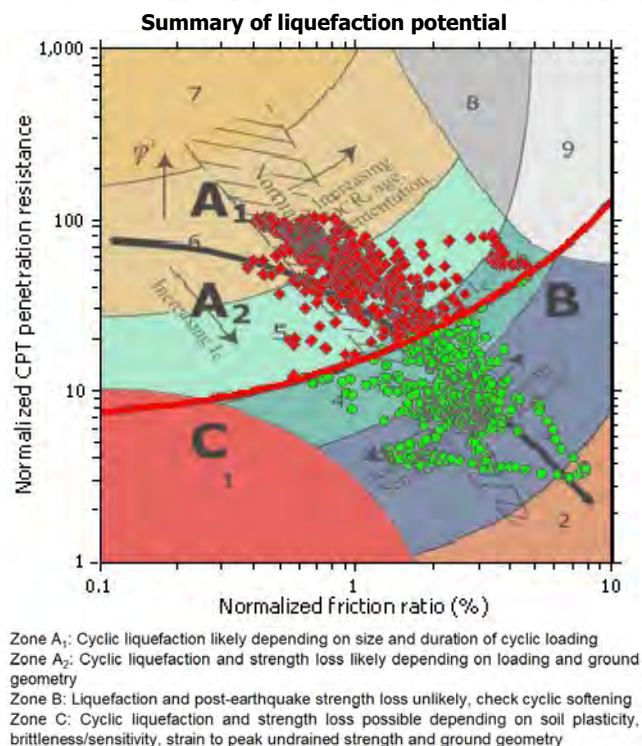
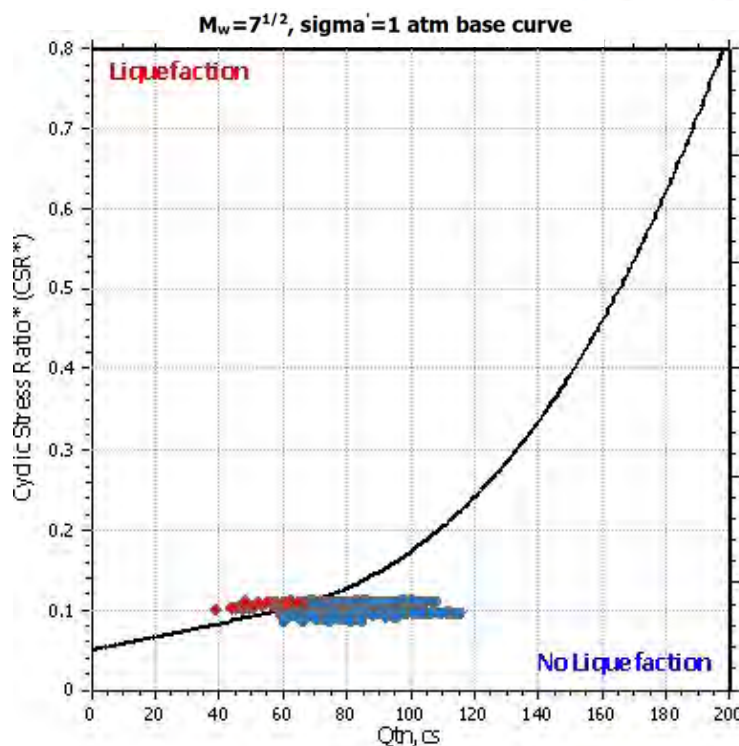
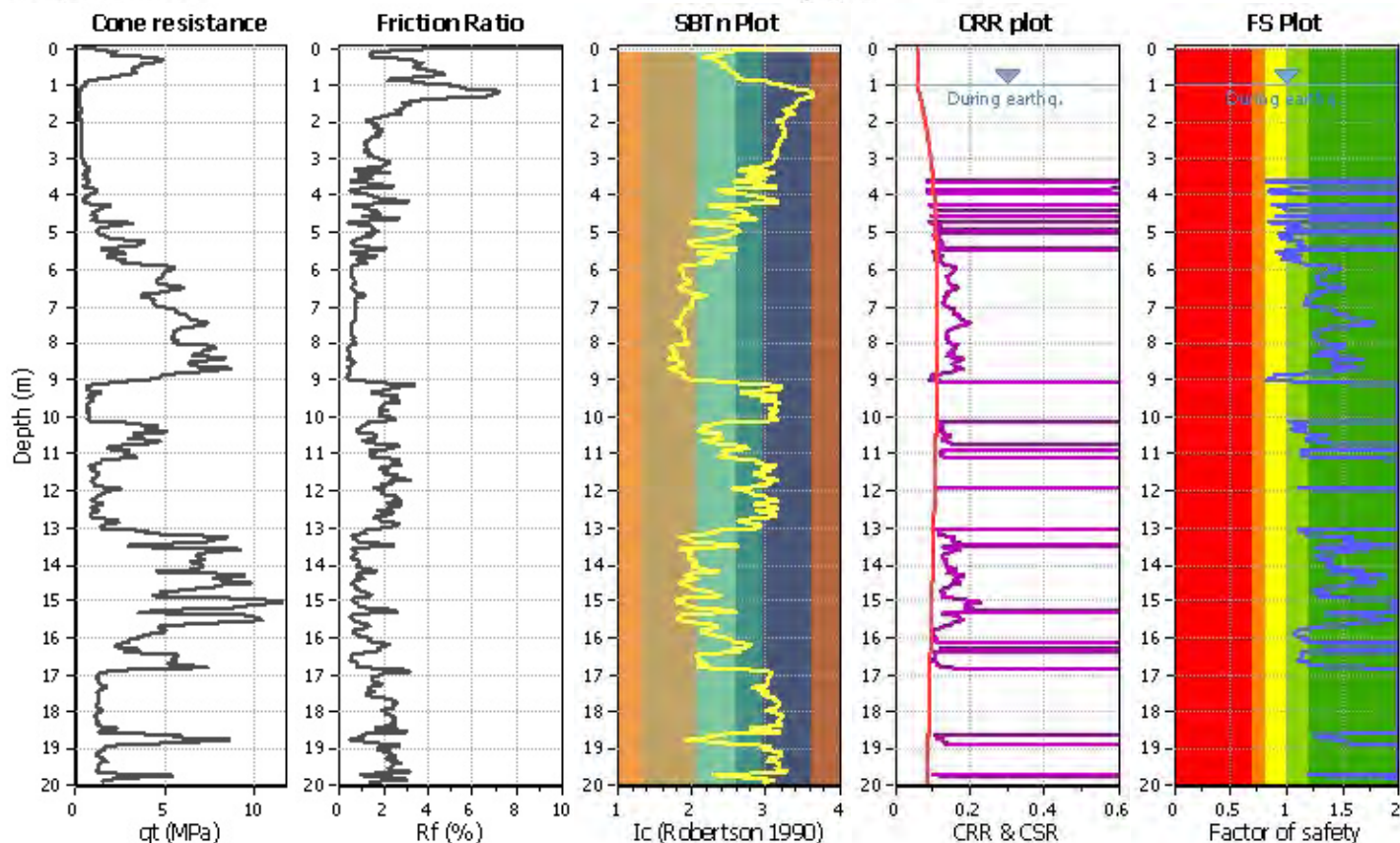
**Project title :**

**Location :**

**CPT file : CPTU4**

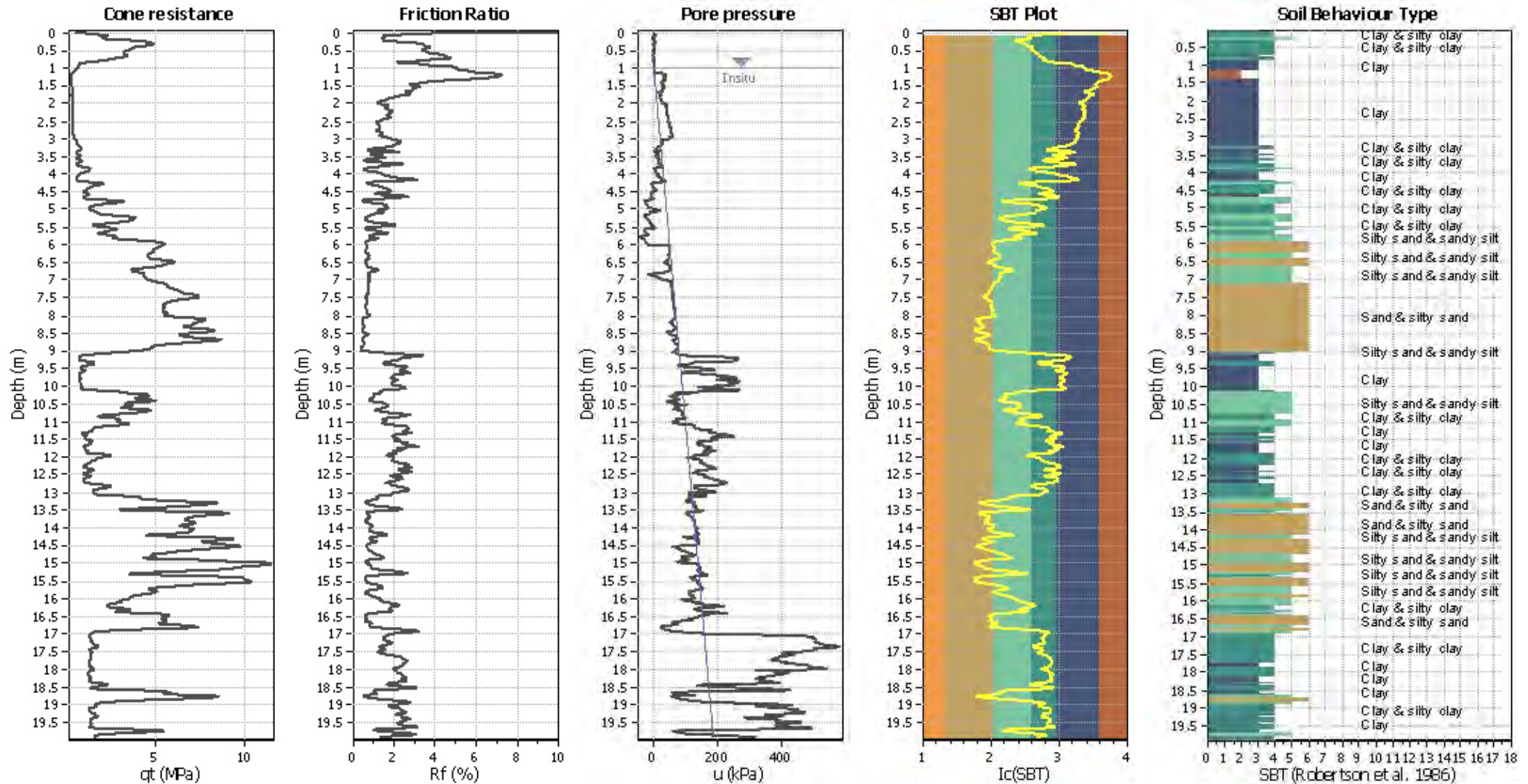
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior	
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	applied:	Sands only
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth applied:	No
Earthquake magnitude $M_w$ :	5.75	Ic cut-off value:	2.60	Trans. detect. applied:	No	Limit depth:	N/A
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes	MSF method:	Method based





## CPT basic interpretation plo



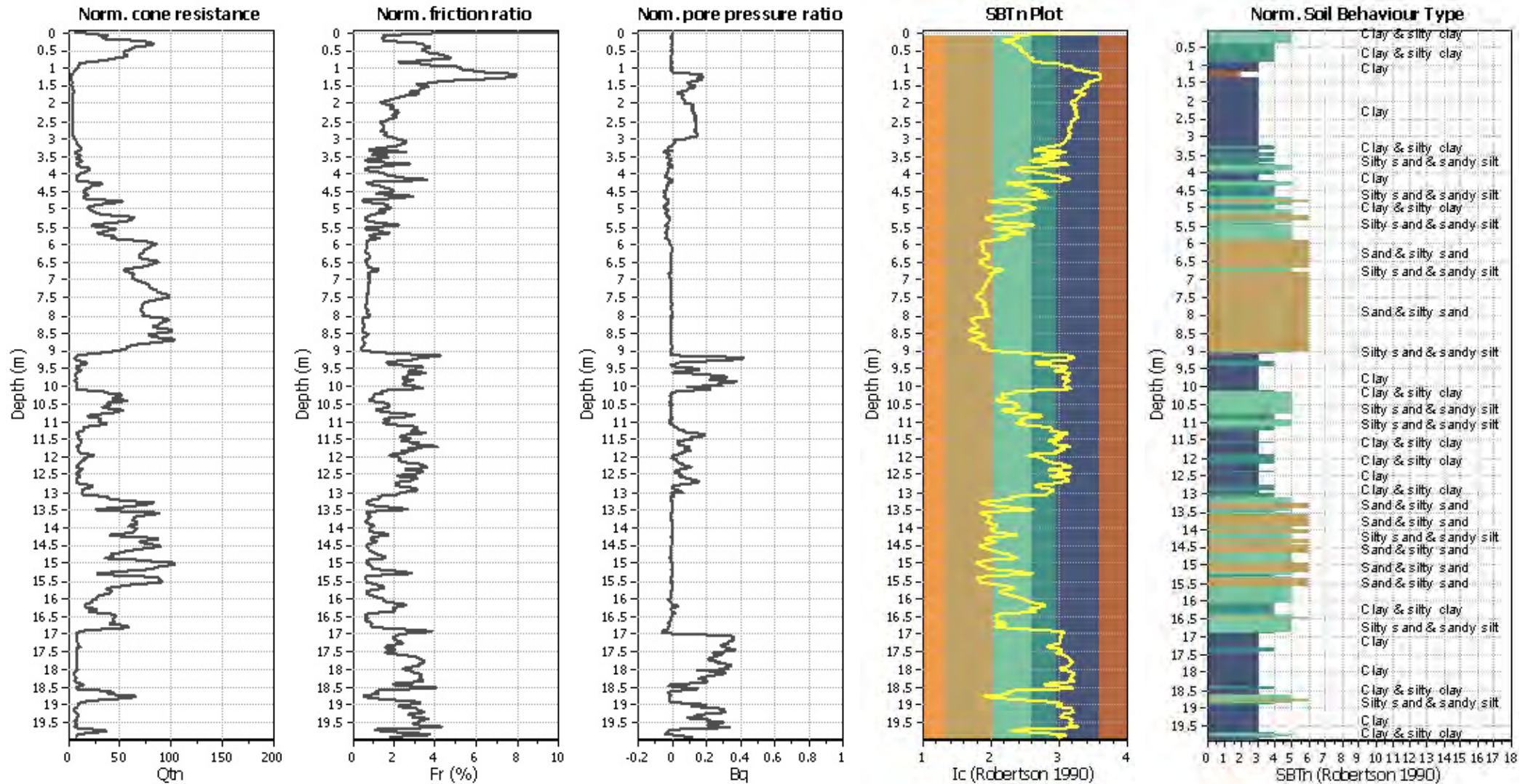
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

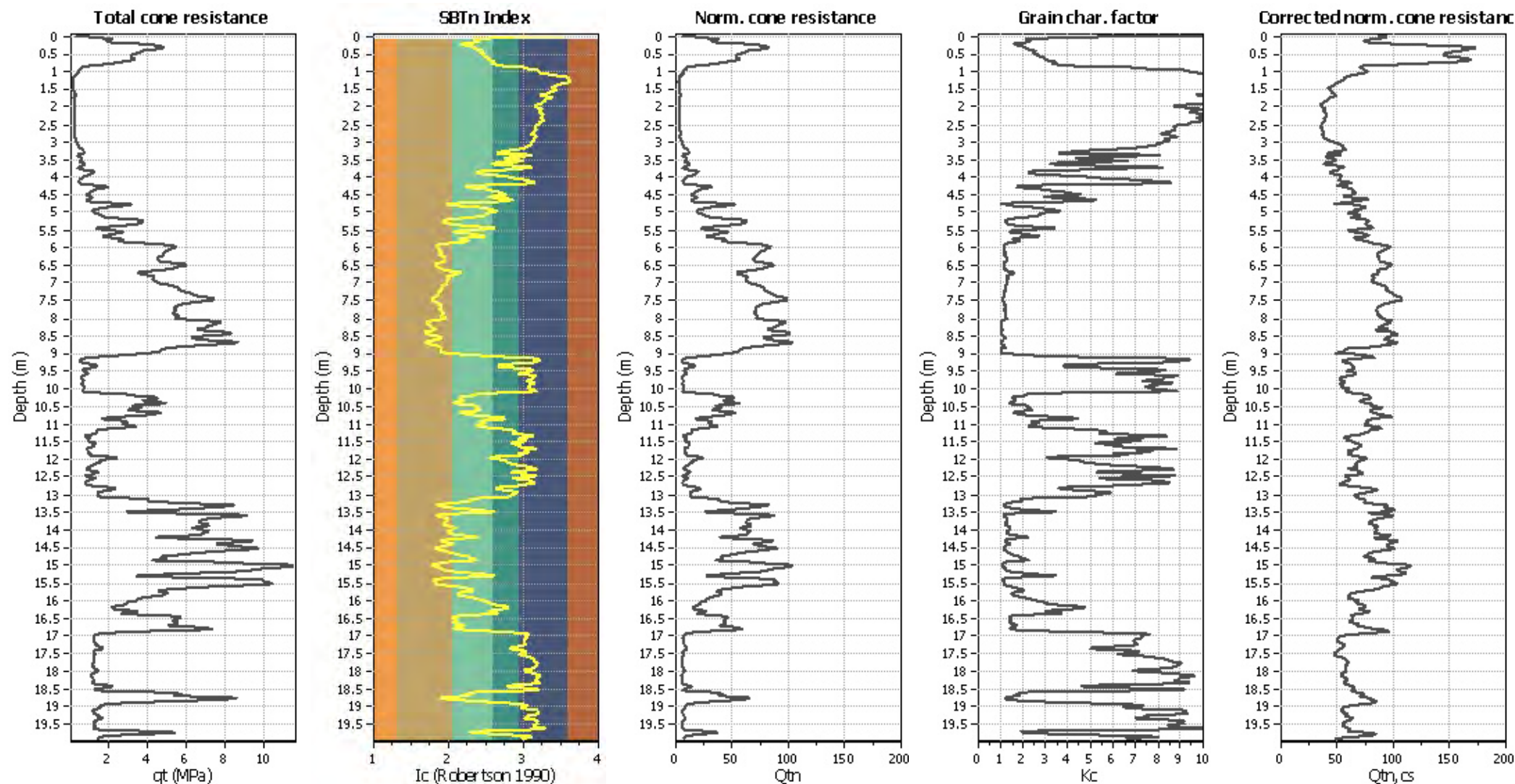
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



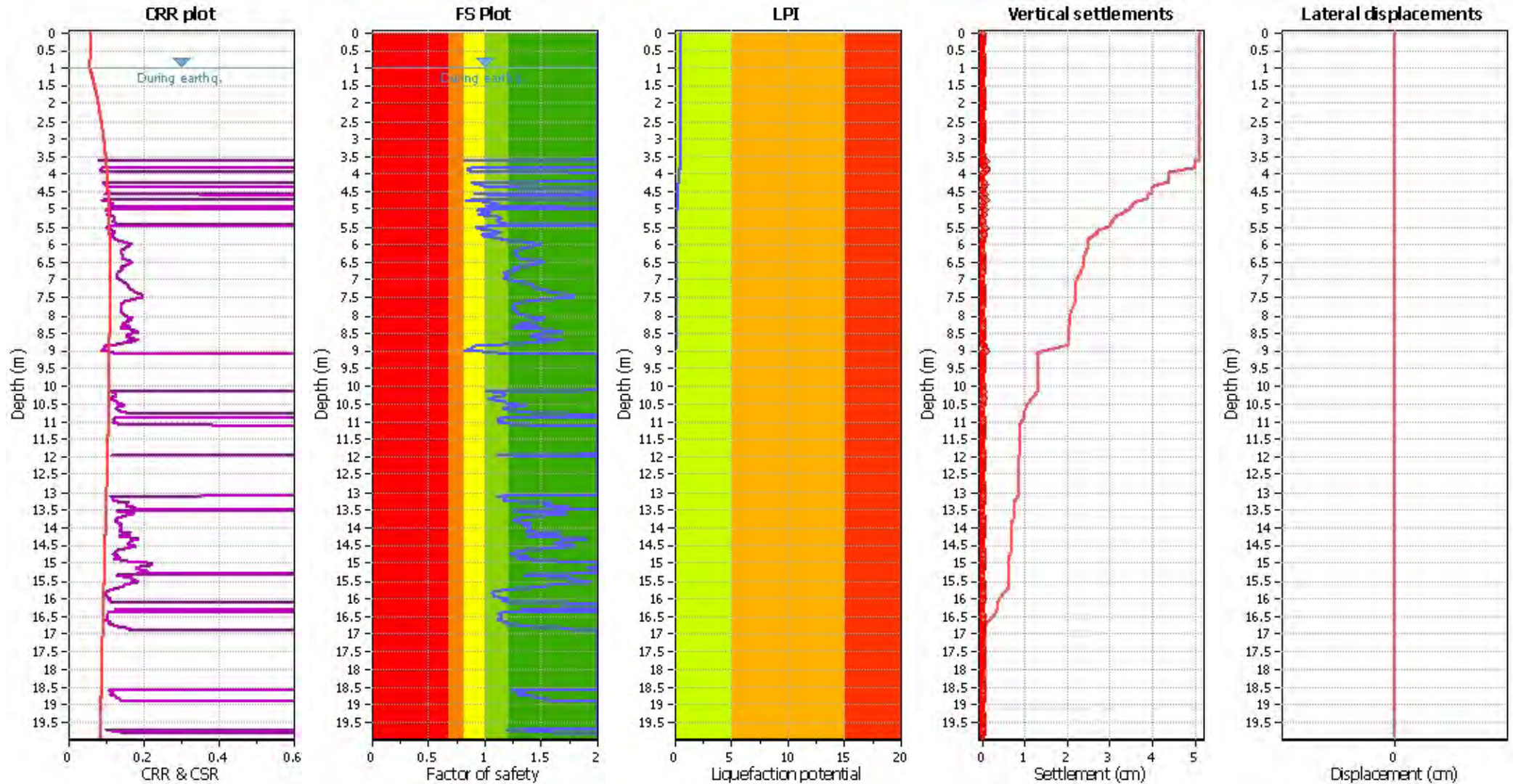
## Liquefaction analysis overall plots (intermediate res)



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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

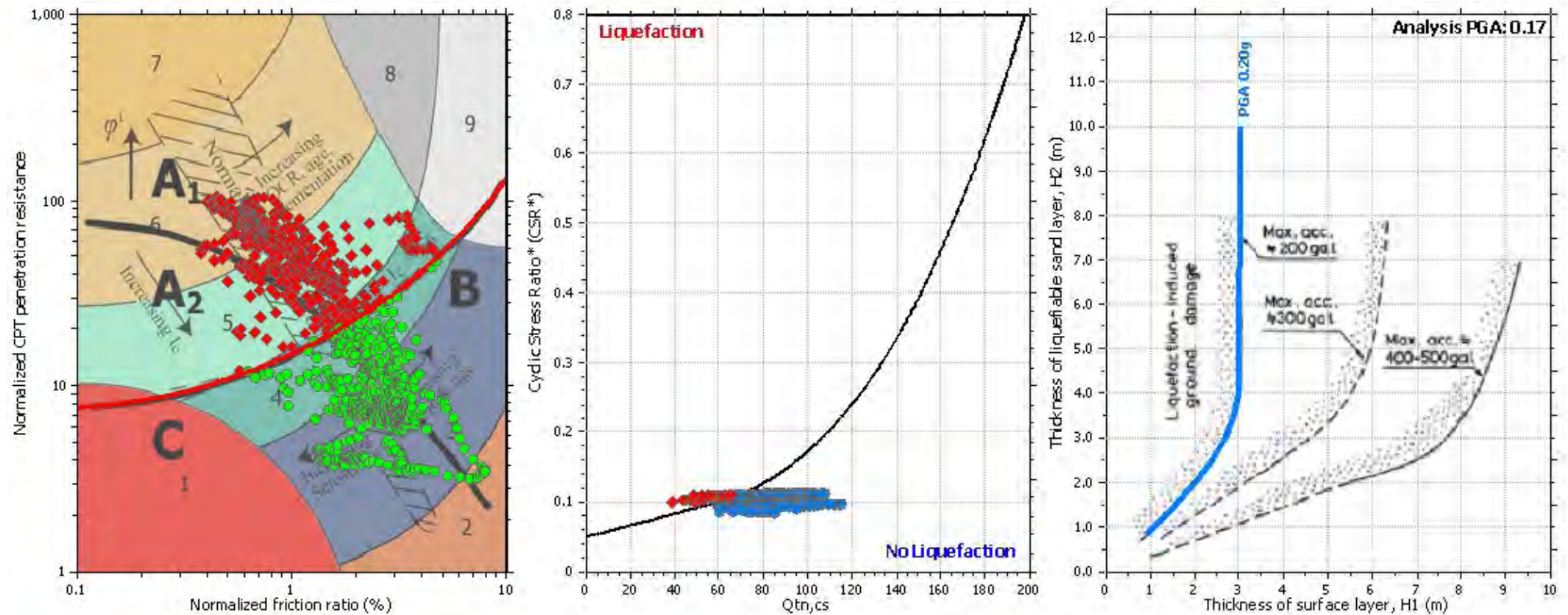
<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk



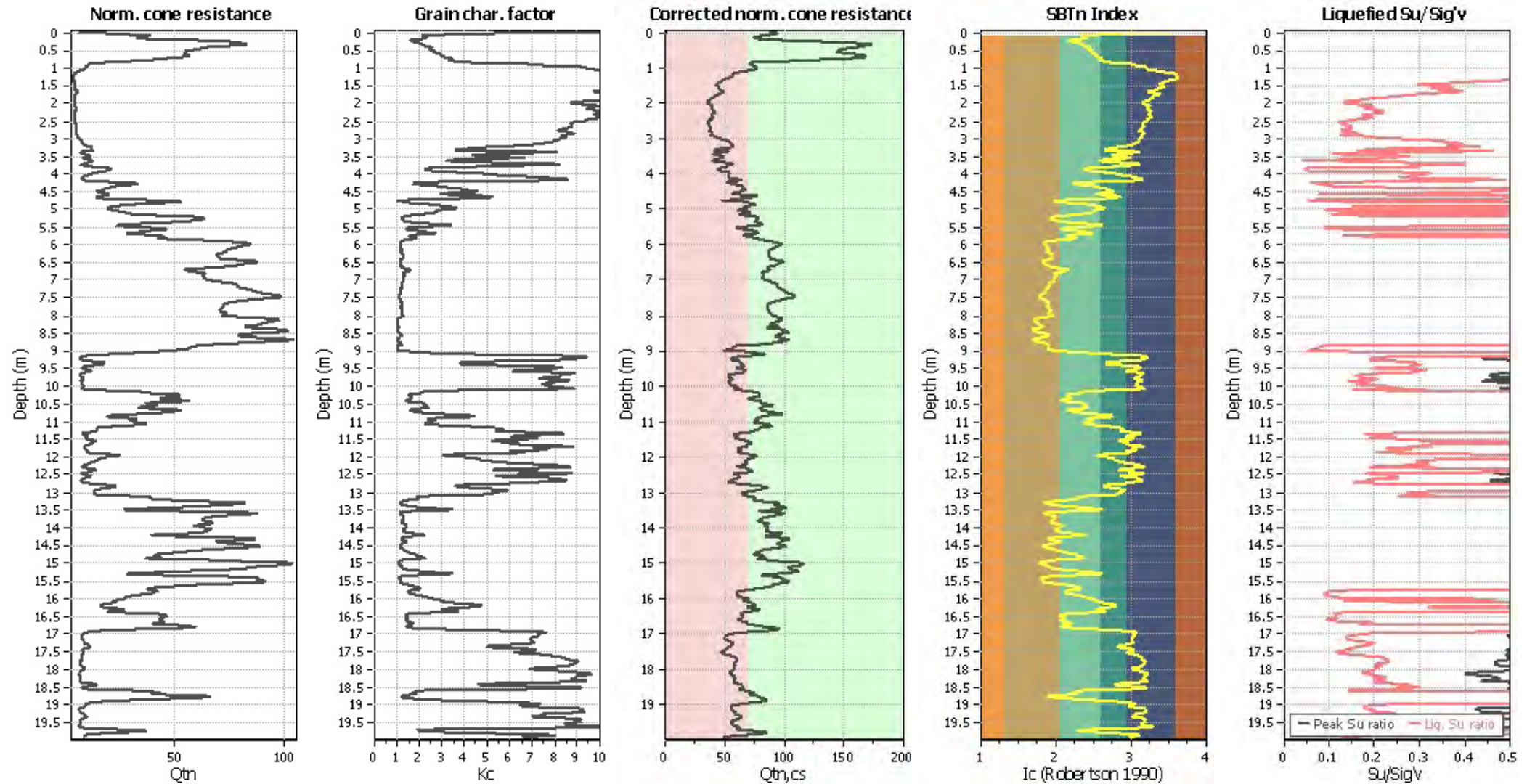
## Liquefaction analysis summary plo



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $i_c$ value	$i_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	5.75	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A



**:: 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 <sub>7.5</sub>	Belongs to trans. layer	Clay-like behaviour	FS
961	19.22	1.30	3.19	3.46	1.00	6.50	9.07	58.92	4.000	No	Yes	2.00
962	19.24	1.40	3.13	3.17	1.00	7.17	8.31	59.61	4.000	No	Yes	2.00
963	19.26	1.50	3.07	2.76	1.00	7.82	7.50	58.69	4.000	No	Yes	2.00
964	19.28	1.51	3.06	2.68	1.00	7.88	7.39	58.17	4.000	No	Yes	2.00
965	19.30	1.53	3.07	2.92	1.00	8.01	7.56	60.58	4.000	No	Yes	2.00
966	19.32	1.62	3.05	3.00	1.00	8.62	7.32	63.10	4.000	No	Yes	2.00
967	19.34	1.70	3.02	2.89	1.00	9.16	6.96	63.76	4.000	No	Yes	2.00
968	19.36	1.64	3.04	2.93	1.00	8.74	7.19	62.86	4.000	No	Yes	2.00
969	19.38	1.46	3.13	3.39	1.00	7.50	8.31	62.33	4.000	No	Yes	2.00
970	19.40	1.33	3.19	3.71	1.00	6.67	9.17	61.15	4.000	No	Yes	2.00
971	19.42	1.31	3.19	3.55	1.00	6.53	9.12	59.59	4.000	No	Yes	2.00
972	19.44	1.32	3.17	3.24	1.00	6.54	8.82	57.73	4.000	No	Yes	2.00
973	19.46	1.28	3.18	3.22	1.00	6.31	8.97	56.61	4.000	No	Yes	2.00
974	19.48	1.26	3.19	3.27	1.00	6.13	9.17	56.20	4.000	No	Yes	2.00
975	19.50	1.26	3.18	3.12	1.00	6.16	9.00	55.42	4.000	No	Yes	2.00
976	19.52	1.32	3.14	2.89	1.00	6.50	8.49	55.16	4.000	No	Yes	2.00
977	19.54	1.33	3.14	2.91	1.00	6.56	8.46	55.56	4.000	No	Yes	2.00
978	19.56	1.31	3.17	3.26	1.00	6.46	8.90	57.49	4.000	No	Yes	2.00
979	19.58	1.25	3.23	3.75	1.00	6.06	9.69	58.74	4.000	No	Yes	2.00
980	19.60	1.21	3.28	4.31	1.00	5.79	10.44	60.44	4.000	No	Yes	2.00
981	19.62	1.23	3.27	4.31	1.00	5.91	10.32	61.05	4.000	No	Yes	2.00
982	19.64	1.56	3.08	3.09	1.00	8.06	7.70	62.03	4.000	No	Yes	2.00
983	19.66	2.52	2.71	1.62	0.91	14.89	4.03	60.07	4.000	No	Yes	2.00
984	19.68	3.89	2.42	1.08	0.80	25.38	2.38	60.50	0.101	No	No	1.19
985	19.70	5.05	2.30	1.04	0.75	34.32	1.94	66.52	0.107	No	No	1.27
986	19.72	5.40	2.33	1.32	0.76	36.64	2.05	75.09	0.119	No	No	1.41
987	19.74	4.96	2.44	1.73	0.80	32.85	2.47	81.18	0.130	No	No	1.54
988	19.76	4.13	2.59	2.26	0.86	26.27	3.24	85.10	0.137	No	No	1.63
989	19.78	3.24	2.74	2.80	0.92	19.57	4.32	84.52	4.000	No	Yes	2.00
990	19.80	2.45	2.91	3.38	0.98	13.85	5.81	80.54	4.000	No	Yes	2.00
991	19.82	1.91	3.04	3.72	1.00	10.21	7.24	73.96	4.000	No	Yes	2.00
992	19.84	1.60	3.11	3.55	1.00	8.22	8.03	66.03	4.000	No	Yes	2.00
993	19.86	1.51	3.08	2.81	1.00	7.61	7.68	58.45	4.000	No	Yes	2.00
994	19.88	1.50	3.02	2.13	1.00	7.53	6.98	52.54	4.000	No	Yes	2.00
995	19.90	1.49	2.99	1.79	1.00	7.47	6.58	49.14	4.000	No	Yes	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 <sub>7.5</sub> :	Cyclic resistance ratio for $M_w=7.5$
FS:	Factor of safety against soil liquefaction

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	0.82	0.18	8.19	0.02	0.03	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	0.90	0.10	8.10	0.02	0.02
3.82	0.87	0.13	8.09	0.02	0.02	3.84	0.86	0.14	8.08	0.02	0.02

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	0.85	0.15	8.07	0.02	0.02	3.88	0.85	0.15	8.06	0.02	0.02
3.90	0.88	0.12	8.05	0.02	0.02	3.92	0.90	0.10	8.04	0.02	0.02
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	0.88	0.12	7.88	0.02	0.02
4.26	0.90	0.10	7.87	0.02	0.02	4.28	0.93	0.07	7.86	0.02	0.01
4.30	0.95	0.05	7.85	0.02	0.01	4.32	0.96	0.04	7.84	0.02	0.01
4.34	0.98	0.02	7.83	0.02	0.00	4.36	1.00	0.00	7.82	0.02	0.00
4.38	1.00	0.00	7.81	0.02	0.00	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	0.91	0.09	7.72	0.02	0.01
4.58	0.97	0.03	7.71	0.02	0.01	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	0.89	0.11	7.65	0.02	0.02	4.72	0.89	0.11	7.64	0.02	0.02
4.74	0.84	0.16	7.63	0.02	0.02	4.76	1.00	0.00	7.62	0.02	0.00
4.78	1.03	0.00	7.61	0.02	0.00	4.80	1.06	0.00	7.60	0.02	0.00
4.82	1.09	0.00	7.59	0.02	0.00	4.84	1.12	0.00	7.58	0.02	0.00
4.86	1.10	0.00	7.57	0.02	0.00	4.88	1.04	0.00	7.56	0.02	0.00
4.90	1.01	0.00	7.55	0.02	0.00	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	0.96	0.04	7.50	0.02	0.01
5.02	0.93	0.07	7.49	0.02	0.01	5.04	0.95	0.05	7.48	0.02	0.01
5.06	1.01	0.00	7.47	0.02	0.00	5.08	1.05	0.00	7.46	0.02	0.00
5.10	1.04	0.00	7.45	0.02	0.00	5.12	0.99	0.01	7.44	0.02	0.00
5.14	0.95	0.05	7.43	0.02	0.01	5.16	0.96	0.04	7.42	0.02	0.01
5.18	1.02	0.00	7.41	0.02	0.00	5.20	1.09	0.00	7.40	0.02	0.00
5.22	1.14	0.00	7.39	0.02	0.00	5.24	1.14	0.00	7.38	0.02	0.00
5.26	1.14	0.00	7.37	0.02	0.00	5.28	1.13	0.00	7.36	0.02	0.00
5.30	1.12	0.00	7.35	0.02	0.00	5.32	1.10	0.00	7.34	0.02	0.00
5.34	1.10	0.00	7.33	0.02	0.00	5.36	1.12	0.00	7.32	0.02	0.00
5.38	1.15	0.00	7.31	0.02	0.00	5.40	1.18	0.00	7.30	0.02	0.00
5.42	1.20	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	1.02	0.00	7.26	0.02	0.00
5.50	0.94	0.06	7.25	0.02	0.01	5.52	0.92	0.08	7.24	0.02	0.01
5.54	0.93	0.07	7.23	0.02	0.01	5.56	0.97	0.03	7.22	0.02	0.00
5.58	1.01	0.00	7.21	0.02	0.00	5.60	1.06	0.00	7.20	0.02	0.00
5.62	1.11	0.00	7.19	0.02	0.00	5.64	1.14	0.00	7.18	0.02	0.00
5.66	1.10	0.00	7.17	0.02	0.00	5.68	1.02	0.00	7.16	0.02	0.00
5.70	0.97	0.03	7.15	0.02	0.00	5.72	0.97	0.03	7.14	0.02	0.00
5.74	1.00	0.00	7.13	0.02	0.00	5.76	1.04	0.00	7.12	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	1.09	0.00	7.11	0.02	0.00	5.80	1.13	0.00	7.10	0.02	0.00
5.82	1.14	0.00	7.09	0.02	0.00	5.84	1.14	0.00	7.08	0.02	0.00
5.86	1.16	0.00	7.07	0.02	0.00	5.88	1.22	0.00	7.06	0.02	0.00
5.90	1.30	0.00	7.05	0.02	0.00	5.92	1.36	0.00	7.04	0.02	0.00
5.94	1.41	0.00	7.03	0.02	0.00	5.96	1.47	0.00	7.02	0.02	0.00
5.98	1.50	0.00	7.01	0.02	0.00	6.00	1.49	0.00	7.00	0.02	0.00
6.02	1.45	0.00	6.99	0.02	0.00	6.04	1.42	0.00	6.98	0.02	0.00
6.06	1.40	0.00	6.97	0.02	0.00	6.08	1.37	0.00	6.96	0.02	0.00
6.10	1.35	0.00	6.95	0.02	0.00	6.12	1.32	0.00	6.94	0.02	0.00
6.14	1.29	0.00	6.93	0.02	0.00	6.16	1.27	0.00	6.92	0.02	0.00
6.18	1.26	0.00	6.91	0.02	0.00	6.20	1.26	0.00	6.90	0.02	0.00
6.22	1.27	0.00	6.89	0.02	0.00	6.24	1.27	0.00	6.88	0.02	0.00
6.26	1.28	0.00	6.87	0.02	0.00	6.28	1.28	0.00	6.86	0.02	0.00
6.30	1.28	0.00	6.85	0.02	0.00	6.32	1.29	0.00	6.84	0.02	0.00
6.34	1.30	0.00	6.83	0.02	0.00	6.36	1.30	0.00	6.82	0.02	0.00
6.38	1.30	0.00	6.81	0.02	0.00	6.40	1.32	0.00	6.80	0.02	0.00
6.42	1.38	0.00	6.79	0.02	0.00	6.44	1.45	0.00	6.78	0.02	0.00
6.46	1.51	0.00	6.77	0.02	0.00	6.48	1.53	0.00	6.76	0.02	0.00
6.50	1.52	0.00	6.75	0.02	0.00	6.52	1.49	0.00	6.74	0.02	0.00
6.54	1.45	0.00	6.73	0.02	0.00	6.56	1.40	0.00	6.72	0.02	0.00
6.58	1.34	0.00	6.71	0.02	0.00	6.60	1.29	0.00	6.70	0.02	0.00
6.62	1.26	0.00	6.69	0.02	0.00	6.64	1.25	0.00	6.68	0.02	0.00
6.66	1.26	0.00	6.67	0.02	0.00	6.68	1.28	0.00	6.66	0.02	0.00
6.70	1.29	0.00	6.65	0.02	0.00	6.72	1.29	0.00	6.64	0.02	0.00
6.74	1.25	0.00	6.63	0.02	0.00	6.76	1.20	0.00	6.62	0.02	0.00
6.78	1.17	0.00	6.61	0.02	0.00	6.80	1.17	0.00	6.60	0.02	0.00
6.82	1.18	0.00	6.59	0.02	0.00	6.84	1.19	0.00	6.58	0.02	0.00
6.86	1.20	0.00	6.57	0.02	0.00	6.88	1.20	0.00	6.56	0.02	0.00
6.90	1.19	0.00	6.55	0.02	0.00	6.92	1.18	0.00	6.54	0.02	0.00
6.94	1.16	0.00	6.53	0.02	0.00	6.96	1.18	0.00	6.52	0.02	0.00
6.98	1.21	0.00	6.51	0.02	0.00	7.00	1.24	0.00	6.50	0.02	0.00
7.02	1.27	0.00	6.49	0.02	0.00	7.04	1.30	0.00	6.48	0.02	0.00
7.06	1.34	0.00	6.47	0.02	0.00	7.08	1.38	0.00	6.46	0.02	0.00
7.10	1.41	0.00	6.45	0.02	0.00	7.12	1.43	0.00	6.44	0.02	0.00
7.14	1.43	0.00	6.43	0.02	0.00	7.16	1.43	0.00	6.42	0.02	0.00
7.18	1.43	0.00	6.41	0.02	0.00	7.20	1.43	0.00	6.40	0.02	0.00
7.22	1.45	0.00	6.39	0.02	0.00	7.24	1.47	0.00	6.38	0.02	0.00
7.26	1.51	0.00	6.37	0.02	0.00	7.28	1.54	0.00	6.36	0.02	0.00
7.30	1.56	0.00	6.35	0.02	0.00	7.32	1.58	0.00	6.34	0.02	0.00
7.34	1.61	0.00	6.33	0.02	0.00	7.36	1.64	0.00	6.32	0.02	0.00
7.38	1.68	0.00	6.31	0.02	0.00	7.40	1.73	0.00	6.30	0.02	0.00
7.42	1.77	0.00	6.29	0.02	0.00	7.44	1.79	0.00	6.28	0.02	0.00
7.46	1.78	0.00	6.27	0.02	0.00	7.48	1.74	0.00	6.26	0.02	0.00
7.50	1.68	0.00	6.25	0.02	0.00	7.52	1.61	0.00	6.24	0.02	0.00
7.54	1.54	0.00	6.23	0.02	0.00	7.56	1.47	0.00	6.22	0.02	0.00
7.58	1.41	0.00	6.21	0.02	0.00	7.60	1.37	0.00	6.20	0.02	0.00
7.62	1.34	0.00	6.19	0.02	0.00	7.64	1.31	0.00	6.18	0.02	0.00
7.66	1.29	0.00	6.17	0.02	0.00	7.68	1.27	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	1.26	0.00	6.15	0.02	0.00	7.72	1.26	0.00	6.14	0.02	0.00
7.74	1.25	0.00	6.13	0.02	0.00	7.76	1.25	0.00	6.12	0.02	0.00
7.78	1.25	0.00	6.11	0.02	0.00	7.80	1.26	0.00	6.10	0.02	0.00
7.82	1.27	0.00	6.09	0.02	0.00	7.84	1.27	0.00	6.08	0.02	0.00
7.86	1.27	0.00	6.07	0.02	0.00	7.88	1.27	0.00	6.06	0.02	0.00
7.90	1.28	0.00	6.05	0.02	0.00	7.92	1.29	0.00	6.04	0.02	0.00
7.94	1.30	0.00	6.03	0.02	0.00	7.96	1.31	0.00	6.02	0.02	0.00
7.98	1.33	0.00	6.01	0.02	0.00	8.00	1.36	0.00	6.00	0.02	0.00
8.02	1.40	0.00	5.99	0.02	0.00	8.04	1.45	0.00	5.98	0.02	0.00
8.06	1.53	0.00	5.97	0.02	0.00	8.08	1.44	0.00	5.96	0.02	0.00
8.10	1.50	0.00	5.95	0.02	0.00	8.12	1.51	0.00	5.94	0.02	0.00
8.14	1.47	0.00	5.93	0.02	0.00	8.16	1.43	0.00	5.92	0.02	0.00
8.18	1.39	0.00	5.91	0.02	0.00	8.20	1.36	0.00	5.90	0.02	0.00
8.22	1.33	0.00	5.89	0.02	0.00	8.24	1.32	0.00	5.88	0.02	0.00
8.26	1.30	0.00	5.87	0.02	0.00	8.28	1.46	0.00	5.86	0.02	0.00
8.30	1.42	0.00	5.85	0.02	0.00	8.32	1.39	0.00	5.84	0.02	0.00
8.34	1.39	0.00	5.83	0.02	0.00	8.36	1.25	0.00	5.82	0.02	0.00
8.38	1.36	0.00	5.81	0.02	0.00	8.40	1.50	0.00	5.80	0.02	0.00
8.42	1.61	0.00	5.79	0.02	0.00	8.44	1.61	0.00	5.78	0.02	0.00
8.46	1.69	0.00	5.77	0.02	0.00	8.48	1.60	0.00	5.76	0.02	0.00
8.50	1.52	0.00	5.75	0.02	0.00	8.52	1.46	0.00	5.74	0.02	0.00
8.54	1.43	0.00	5.73	0.02	0.00	8.56	1.41	0.00	5.72	0.02	0.00
8.58	1.41	0.00	5.71	0.02	0.00	8.60	1.43	0.00	5.70	0.02	0.00
8.62	1.50	0.00	5.69	0.02	0.00	8.64	1.48	0.00	5.68	0.02	0.00
8.66	1.64	0.00	5.67	0.02	0.00	8.68	1.69	0.00	5.66	0.02	0.00
8.70	1.60	0.00	5.65	0.02	0.00	8.72	1.46	0.00	5.64	0.02	0.00
8.74	1.51	0.00	5.63	0.02	0.00	8.76	1.41	0.00	5.62	0.02	0.00
8.78	1.30	0.00	5.61	0.02	0.00	8.80	1.20	0.00	5.60	0.02	0.00
8.82	1.13	0.00	5.59	0.02	0.00	8.84	0.92	0.08	5.58	0.02	0.01
8.86	0.90	0.10	5.57	0.02	0.01	8.88	0.89	0.11	5.56	0.02	0.01
8.90	0.89	0.11	5.55	0.02	0.01	8.92	0.88	0.12	5.54	0.02	0.01
8.94	0.87	0.13	5.53	0.02	0.01	8.96	0.85	0.15	5.52	0.02	0.02
8.98	0.83	0.17	5.51	0.02	0.02	9.00	0.96	0.04	5.50	0.02	0.00
9.02	1.01	0.00	5.49	0.02	0.00	9.04	1.09	0.00	5.48	0.02	0.00
9.06	1.16	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	1.02	0.00	4.93	0.02	0.00	10.16	1.08	0.00	4.92	0.02	0.00
10.18	1.13	0.00	4.91	0.02	0.00	10.20	1.15	0.00	4.90	0.02	0.00
10.22	1.16	0.00	4.89	0.02	0.00	10.24	1.17	0.00	4.88	0.02	0.00
10.26	1.17	0.00	4.87	0.02	0.00	10.28	1.12	0.00	4.86	0.02	0.00
10.30	1.08	0.00	4.85	0.02	0.00	10.32	1.05	0.00	4.84	0.02	0.00
10.34	1.03	0.00	4.83	0.02	0.00	10.36	1.05	0.00	4.82	0.02	0.00
10.38	1.10	0.00	4.81	0.02	0.00	10.40	1.16	0.00	4.80	0.02	0.00
10.42	1.19	0.00	4.79	0.02	0.00	10.44	1.18	0.00	4.78	0.02	0.00
10.46	1.19	0.00	4.77	0.02	0.00	10.48	1.23	0.00	4.76	0.02	0.00
10.50	1.31	0.00	4.75	0.02	0.00	10.52	1.37	0.00	4.74	0.02	0.00
10.54	1.34	0.00	4.73	0.02	0.00	10.56	1.26	0.00	4.72	0.02	0.00
10.58	1.19	0.00	4.71	0.02	0.00	10.60	1.17	0.00	4.70	0.02	0.00
10.62	1.17	0.00	4.69	0.02	0.00	10.64	1.19	0.00	4.68	0.02	0.00
10.66	1.22	0.00	4.67	0.02	0.00	10.68	1.26	0.00	4.66	0.02	0.00
10.70	1.31	0.00	4.65	0.02	0.00	10.72	1.38	0.00	4.64	0.02	0.00
10.74	1.45	0.00	4.63	0.02	0.00	10.76	1.54	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	1.15	0.00	4.55	0.02	0.00	10.92	1.12	0.00	4.54	0.02	0.00
10.94	1.13	0.00	4.53	0.02	0.00	10.96	1.16	0.00	4.52	0.02	0.00
10.98	1.17	0.00	4.51	0.02	0.00	11.00	1.13	0.00	4.50	0.02	0.00
11.02	1.12	0.00	4.49	0.02	0.00	11.04	1.16	0.00	4.48	0.02	0.00
11.06	1.22	0.00	4.47	0.02	0.00	11.08	1.29	0.00	4.46	0.02	0.00
11.10	1.35	0.00	4.45	0.02	0.00	11.12	2.00	0.00	4.44	0.02	0.00
11.14	2.00	0.00	4.43	0.02	0.00	11.16	2.00	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	1.11	0.00	4.03	0.02	0.00	11.96	1.15	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	2.00	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	2.00	0.00	3.61	0.02	0.00	12.80	2.00	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	2.00	0.00	3.51	0.02	0.00	13.00	2.00	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	1.10	0.00	3.46	0.02	0.00
13.10	1.14	0.00	3.45	0.02	0.00	13.12	1.18	0.00	3.44	0.02	0.00
13.14	1.19	0.00	3.43	0.02	0.00	13.16	1.18	0.00	3.42	0.02	0.00
13.18	1.17	0.00	3.41	0.02	0.00	13.20	1.17	0.00	3.40	0.02	0.00
13.22	1.22	0.00	3.39	0.02	0.00	13.24	1.32	0.00	3.38	0.02	0.00
13.26	1.47	0.00	3.37	0.02	0.00	13.28	1.57	0.00	3.36	0.02	0.00
13.30	1.59	0.00	3.35	0.02	0.00	13.32	1.57	0.00	3.34	0.02	0.00
13.34	1.53	0.00	3.33	0.02	0.00	13.36	1.52	0.00	3.32	0.02	0.00
13.38	1.56	0.00	3.31	0.02	0.00	13.40	1.67	0.00	3.30	0.02	0.00
13.42	1.76	0.00	3.29	0.02	0.00	13.44	1.75	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	1.64	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	1.38	0.00	3.25	0.02	0.00	13.52	1.26	0.00	3.24	0.02	0.00
13.54	1.35	0.00	3.23	0.02	0.00	13.56	1.58	0.00	3.22	0.02	0.00
13.58	1.73	0.00	3.21	0.02	0.00	13.60	1.73	0.00	3.20	0.02	0.00
13.62	1.65	0.00	3.19	0.02	0.00	13.64	1.56	0.00	3.18	0.02	0.00
13.66	1.48	0.00	3.17	0.02	0.00	13.68	1.42	0.00	3.16	0.02	0.00
13.70	1.36	0.00	3.15	0.02	0.00	13.72	1.32	0.00	3.14	0.02	0.00
13.74	1.30	0.00	3.13	0.02	0.00	13.76	1.28	0.00	3.12	0.02	0.00
13.78	1.26	0.00	3.11	0.02	0.00	13.80	1.26	0.00	3.10	0.02	0.00
13.82	1.28	0.00	3.09	0.02	0.00	13.84	1.32	0.00	3.08	0.02	0.00
13.86	1.35	0.00	3.07	0.02	0.00	13.88	1.41	0.00	3.06	0.02	0.00
13.90	1.39	0.00	3.05	0.02	0.00	13.92	1.39	0.00	3.04	0.02	0.00
13.94	1.35	0.00	3.03	0.02	0.00	13.96	1.39	0.00	3.02	0.02	0.00
13.98	1.40	0.00	3.01	0.02	0.00	14.00	1.41	0.00	3.00	0.02	0.00
14.02	1.39	0.00	2.99	0.02	0.00	14.04	1.38	0.00	2.98	0.02	0.00
14.06	1.37	0.00	2.97	0.02	0.00	14.08	1.39	0.00	2.96	0.02	0.00
14.10	1.46	0.00	2.95	0.02	0.00	14.12	1.58	0.00	2.94	0.02	0.00
14.14	1.68	0.00	2.93	0.02	0.00	14.16	1.65	0.00	2.92	0.02	0.00
14.18	1.56	0.00	2.91	0.02	0.00	14.20	1.45	0.00	2.90	0.02	0.00
14.22	1.37	0.00	2.89	0.02	0.00	14.24	1.38	0.00	2.88	0.02	0.00
14.26	1.53	0.00	2.87	0.02	0.00	14.28	1.74	0.00	2.86	0.02	0.00
14.30	1.87	0.00	2.85	0.02	0.00	14.32	1.89	0.00	2.84	0.02	0.00
14.34	1.82	0.00	2.83	0.02	0.00	14.36	1.74	0.00	2.82	0.02	0.00
14.38	1.70	0.00	2.81	0.02	0.00	14.40	1.67	0.00	2.80	0.02	0.00
14.42	1.64	0.00	2.79	0.02	0.00	14.44	1.62	0.00	2.78	0.02	0.00
14.46	1.63	0.00	2.77	0.02	0.00	14.48	1.70	0.00	2.76	0.02	0.00
14.50	1.78	0.00	2.75	0.02	0.00	14.52	1.80	0.00	2.74	0.02	0.00
14.54	1.74	0.00	2.73	0.02	0.00	14.56	1.63	0.00	2.72	0.02	0.00
14.58	1.54	0.00	2.71	0.02	0.00	14.60	1.45	0.00	2.70	0.02	0.00
14.62	1.37	0.00	2.69	0.02	0.00	14.64	1.32	0.00	2.68	0.02	0.00
14.66	1.30	0.00	2.67	0.02	0.00	14.68	1.29	0.00	2.66	0.02	0.00
14.70	1.27	0.00	2.65	0.02	0.00	14.72	1.23	0.00	2.64	0.02	0.00
14.74	1.23	0.00	2.63	0.02	0.00	14.76	1.28	0.00	2.62	0.02	0.00
14.78	1.35	0.00	2.61	0.02	0.00	14.80	1.39	0.00	2.60	0.02	0.00
14.82	1.37	0.00	2.59	0.02	0.00	14.84	1.34	0.00	2.58	0.02	0.00
14.86	1.29	0.00	2.57	0.02	0.00	14.88	1.30	0.00	2.56	0.02	0.00
14.90	1.42	0.00	2.55	0.02	0.00	14.92	1.65	0.00	2.54	0.02	0.00
14.94	1.87	0.00	2.53	0.02	0.00	14.96	2.00	0.00	2.52	0.02	0.00
14.98	2.00	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	2.00	0.00	2.46	0.02	0.00
15.10	1.98	0.00	2.45	0.02	0.00	15.12	1.91	0.00	2.44	0.02	0.00
15.14	1.91	0.00	2.43	0.02	0.00	15.16	1.95	0.00	2.42	0.02	0.00
15.18	2.00	0.00	2.41	0.02	0.00	15.20	2.00	0.00	2.40	0.02	0.00
15.22	2.00	0.00	2.39	0.02	0.00	15.24	2.00	0.00	2.38	0.02	0.00
15.26	1.96	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	1.59	0.00	2.35	0.02	0.00	15.32	1.40	0.00	2.34	0.02	0.00
15.34	1.35	0.00	2.33	0.02	0.00	15.36	1.47	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	1.63	0.00	2.31	0.02	0.00	15.40	1.73	0.00	2.30	0.02	0.00
15.42	1.76	0.00	2.29	0.02	0.00	15.44	1.78	0.00	2.28	0.02	0.00
15.46	1.80	0.00	2.27	0.02	0.00	15.48	1.85	0.00	2.26	0.02	0.00
15.50	1.92	0.00	2.25	0.02	0.00	15.52	1.94	0.00	2.24	0.02	0.00
15.54	1.88	0.00	2.23	0.02	0.00	15.56	1.76	0.00	2.22	0.02	0.00
15.58	1.64	0.00	2.21	0.02	0.00	15.60	1.59	0.00	2.20	0.02	0.00
15.62	1.56	0.00	2.19	0.02	0.00	15.64	1.54	0.00	2.18	0.02	0.00
15.66	1.50	0.00	2.17	0.02	0.00	15.68	1.42	0.00	2.16	0.02	0.00
15.70	1.34	0.00	2.15	0.02	0.00	15.72	1.27	0.00	2.14	0.02	0.00
15.74	1.23	0.00	2.13	0.02	0.00	15.76	1.19	0.00	2.12	0.02	0.00
15.78	1.15	0.00	2.11	0.02	0.00	15.80	1.11	0.00	2.10	0.02	0.00
15.82	1.08	0.00	2.09	0.02	0.00	15.84	1.07	0.00	2.08	0.02	0.00
15.86	1.07	0.00	2.07	0.02	0.00	15.88	1.07	0.00	2.06	0.02	0.00
15.90	1.09	0.00	2.05	0.02	0.00	15.92	1.08	0.00	2.04	0.02	0.00
15.94	1.09	0.00	2.03	0.02	0.00	15.96	1.13	0.00	2.02	0.02	0.00
15.98	1.19	0.00	2.01	0.02	0.00	16.00	1.20	0.00	2.00	0.02	0.00
16.02	1.16	0.00	1.99	0.02	0.00	16.04	1.15	0.00	1.98	0.02	0.00
16.06	1.17	0.00	1.97	0.02	0.00	16.08	1.20	0.00	1.96	0.02	0.00
16.10	1.24	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	1.33	0.00	1.86	0.02	0.00
16.30	1.37	0.00	1.85	0.02	0.00	16.32	1.33	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	1.16	0.00	1.81	0.02	0.00	16.40	1.12	0.00	1.80	0.02	0.00
16.42	1.12	0.00	1.79	0.02	0.00	16.44	1.13	0.00	1.78	0.02	0.00
16.46	1.14	0.00	1.77	0.02	0.00	16.48	1.14	0.00	1.76	0.02	0.00
16.50	1.14	0.00	1.75	0.02	0.00	16.52	1.14	0.00	1.74	0.02	0.00
16.54	1.14	0.00	1.73	0.02	0.00	16.56	1.13	0.00	1.72	0.02	0.00
16.58	1.12	0.00	1.71	0.02	0.00	16.60	1.11	0.00	1.70	0.02	0.00
16.62	1.11	0.00	1.69	0.02	0.00	16.64	1.14	0.00	1.68	0.02	0.00
16.66	1.18	0.00	1.67	0.02	0.00	16.68	1.21	0.00	1.66	0.02	0.00
16.70	1.21	0.00	1.65	0.02	0.00	16.72	1.20	0.00	1.64	0.02	0.00
16.74	1.21	0.00	1.63	0.02	0.00	16.76	1.29	0.00	1.62	0.02	0.00
16.78	1.43	0.00	1.61	0.02	0.00	16.80	1.58	0.00	1.60	0.02	0.00
16.82	1.68	0.00	1.59	0.02	0.00	16.84	1.76	0.00	1.58	0.02	0.00
16.86	1.77	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	2.00	0.00	1.54	0.02	0.00
16.94	2.00	0.00	1.53	0.02	0.00	16.96	2.00	0.00	1.52	0.02	0.00
16.98	2.00	0.00	1.51	0.02	0.00	17.00	2.00	0.00	1.50	0.02	0.00
17.02	2.00	0.00	1.49	0.02	0.00	17.04	2.00	0.00	1.48	0.02	0.00
17.06	2.00	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	1.24	0.00	0.70	0.02	0.00
18.62	1.33	0.00	0.69	0.02	0.00	18.64	1.36	0.00	0.68	0.02	0.00
18.66	1.35	0.00	0.67	0.02	0.00	18.68	1.31	0.00	0.66	0.02	0.00
18.70	1.30	0.00	0.65	0.02	0.00	18.72	1.35	0.00	0.64	0.02	0.00
18.74	1.43	0.00	0.63	0.02	0.00	18.76	1.45	0.00	0.62	0.02	0.00
18.78	1.46	0.00	0.61	0.02	0.00	18.80	1.49	0.00	0.60	0.02	0.00
18.82	1.54	0.00	0.59	0.02	0.00	18.84	1.58	0.00	0.58	0.02	0.00
18.86	1.59	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	1.19	0.00	0.16	0.02	0.00
19.70	1.27	0.00	0.15	0.02	0.00	19.72	1.41	0.00	0.14	0.02	0.00
19.74	1.54	0.00	0.13	0.02	0.00	19.76	1.63	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 0.51**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point

## LIQUEFACTION ANALYSIS REPORT

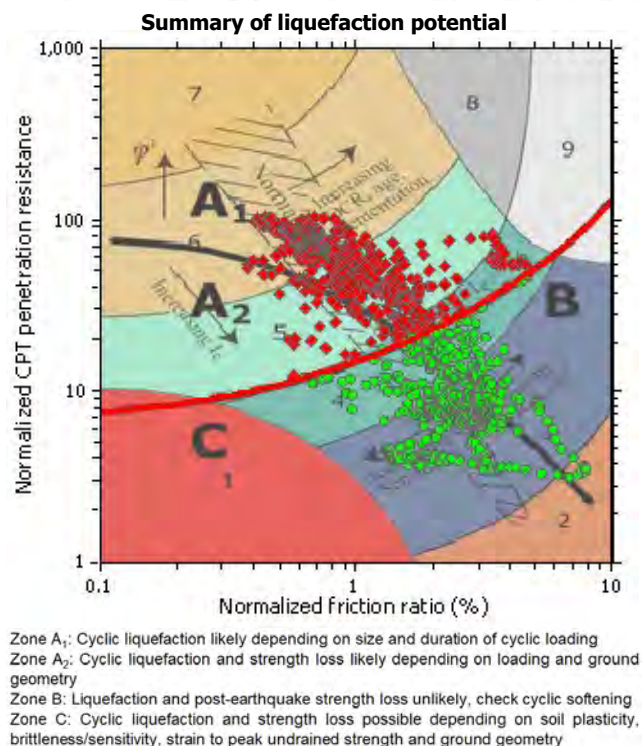
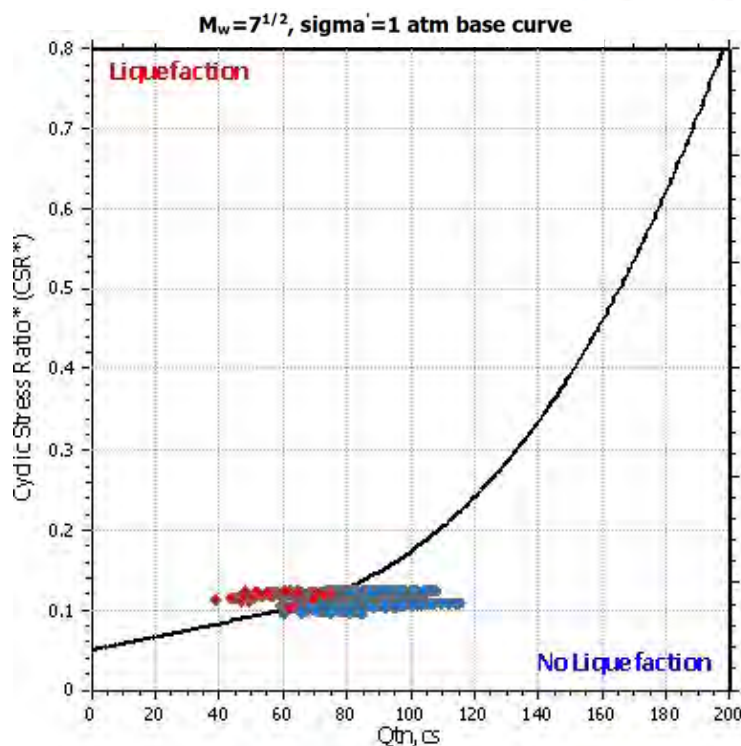
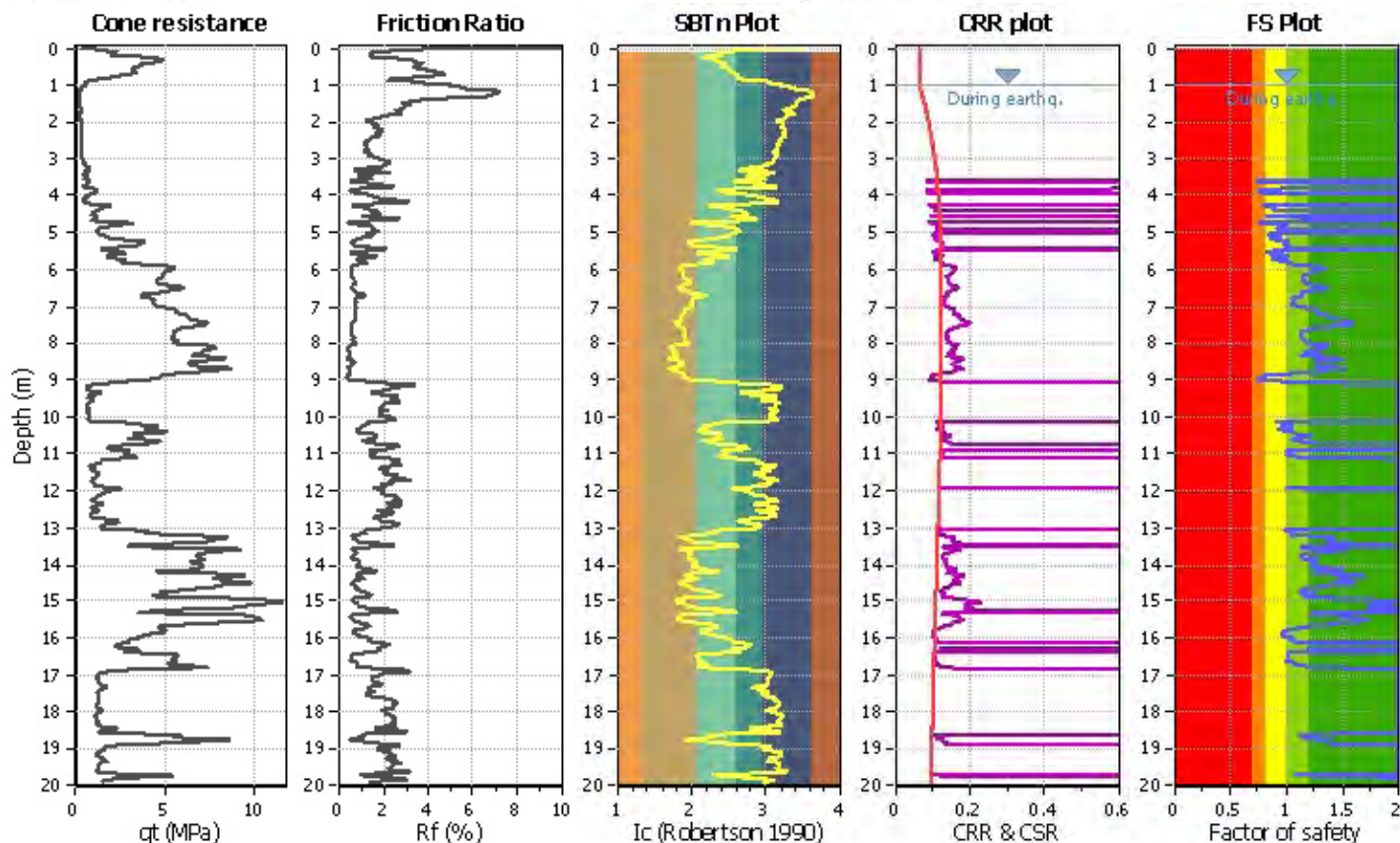
**Project title :**

**Location :**

**CPT file : CPTU4**

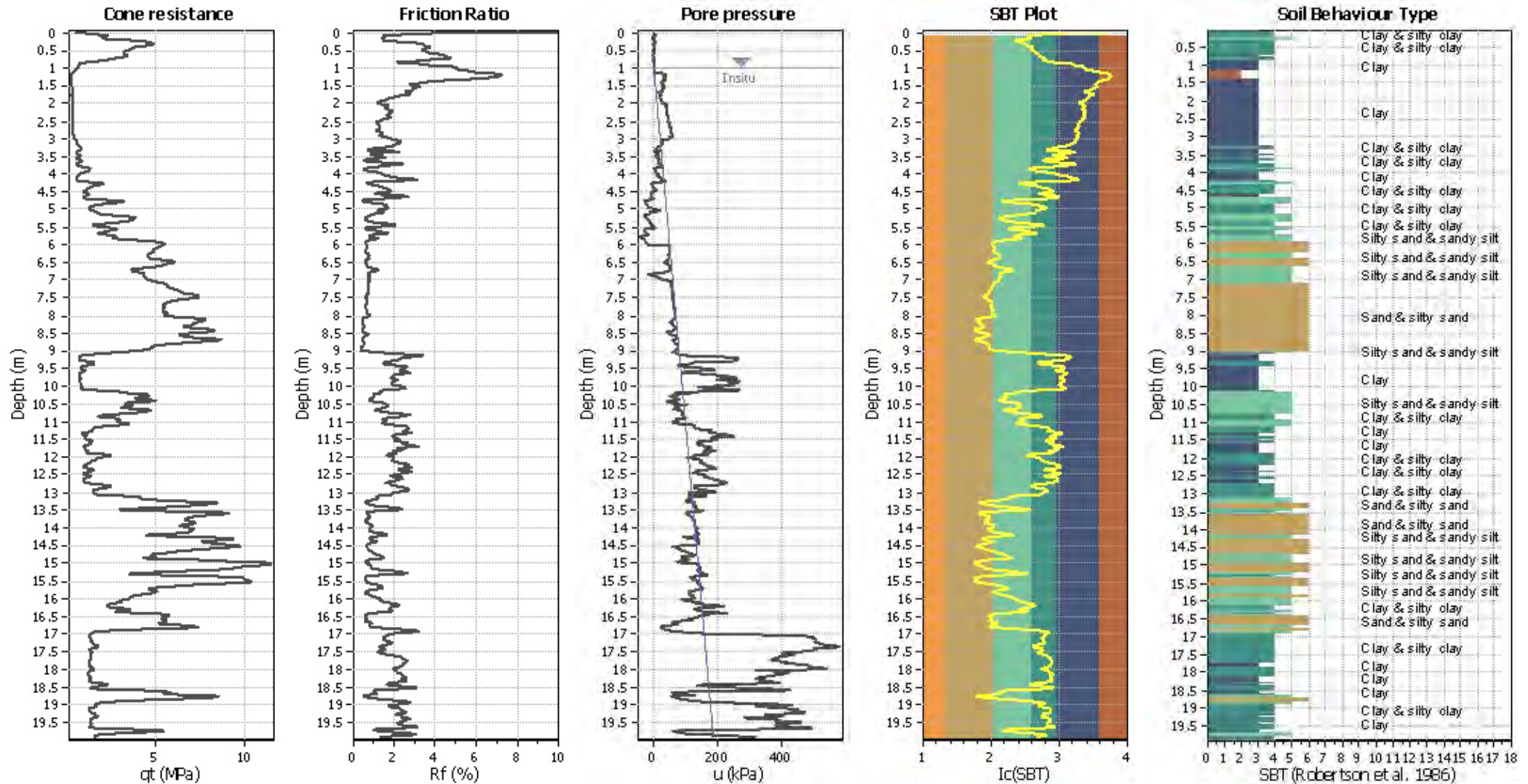
### Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	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 $M_w$ :	6.00	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		





## CPT basic interpretation plo



## Input parameters and analysis data

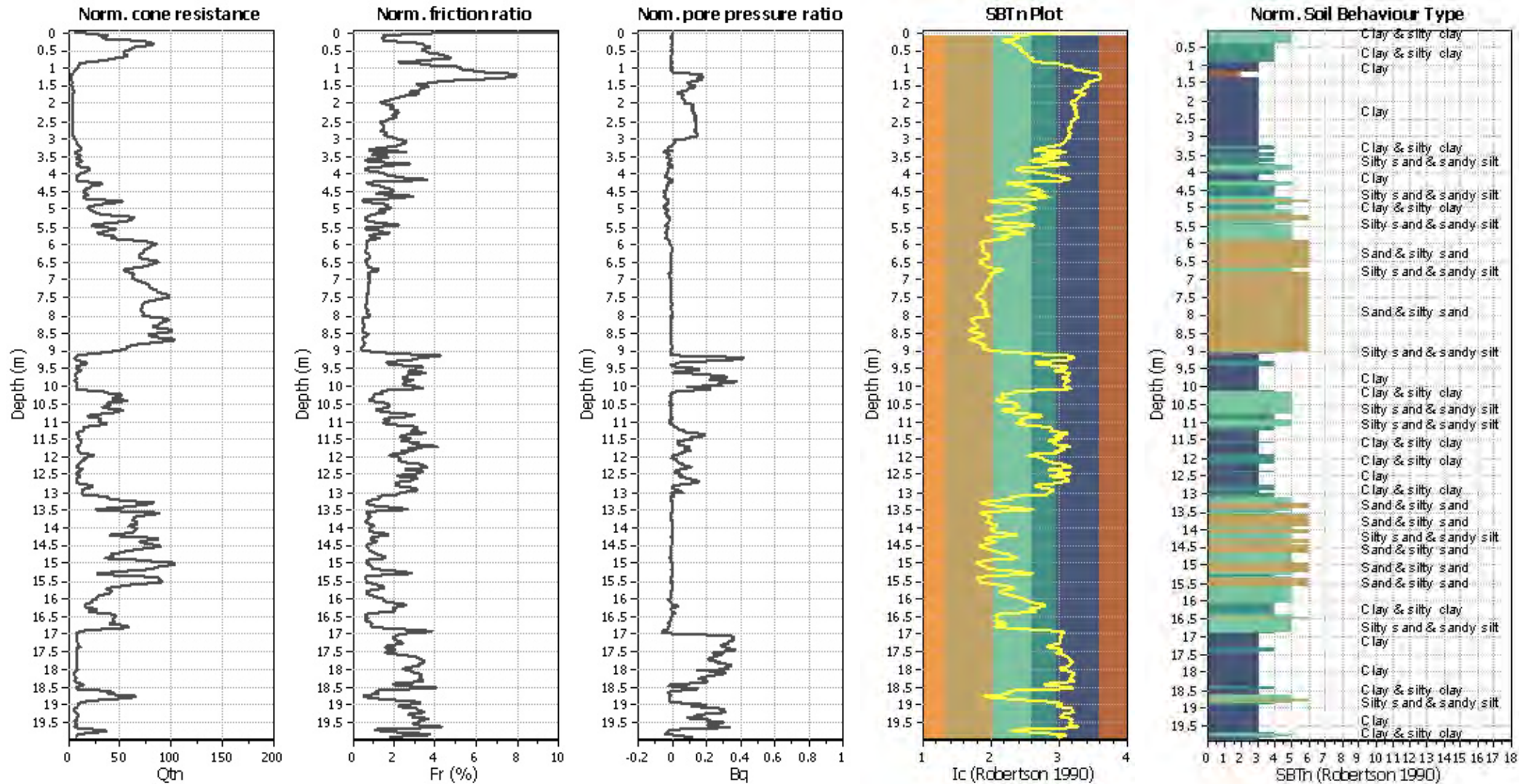
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



## CPT basic interpretation plots (normaliz



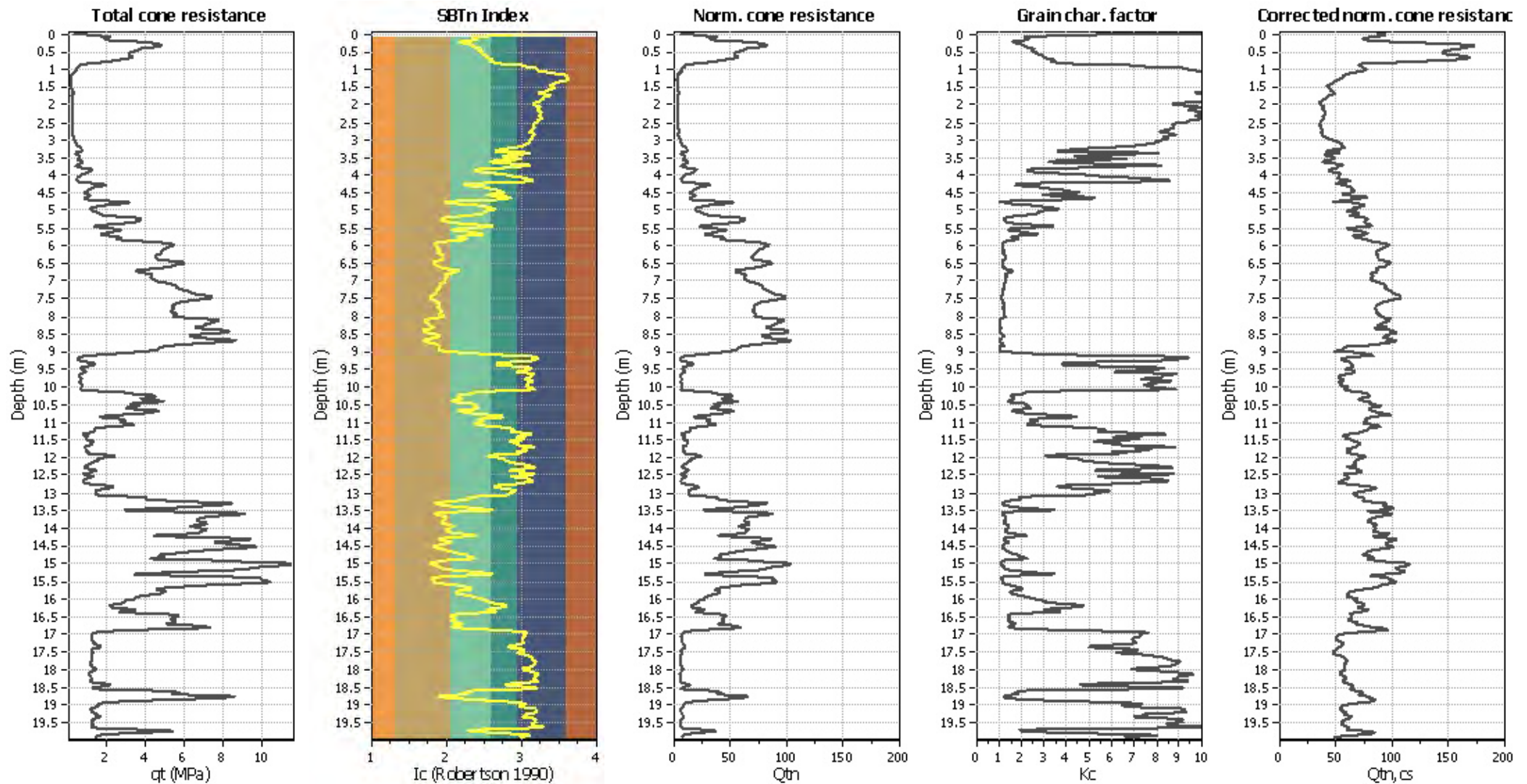
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

### Liquefaction analysis overall plots (intermediate res)

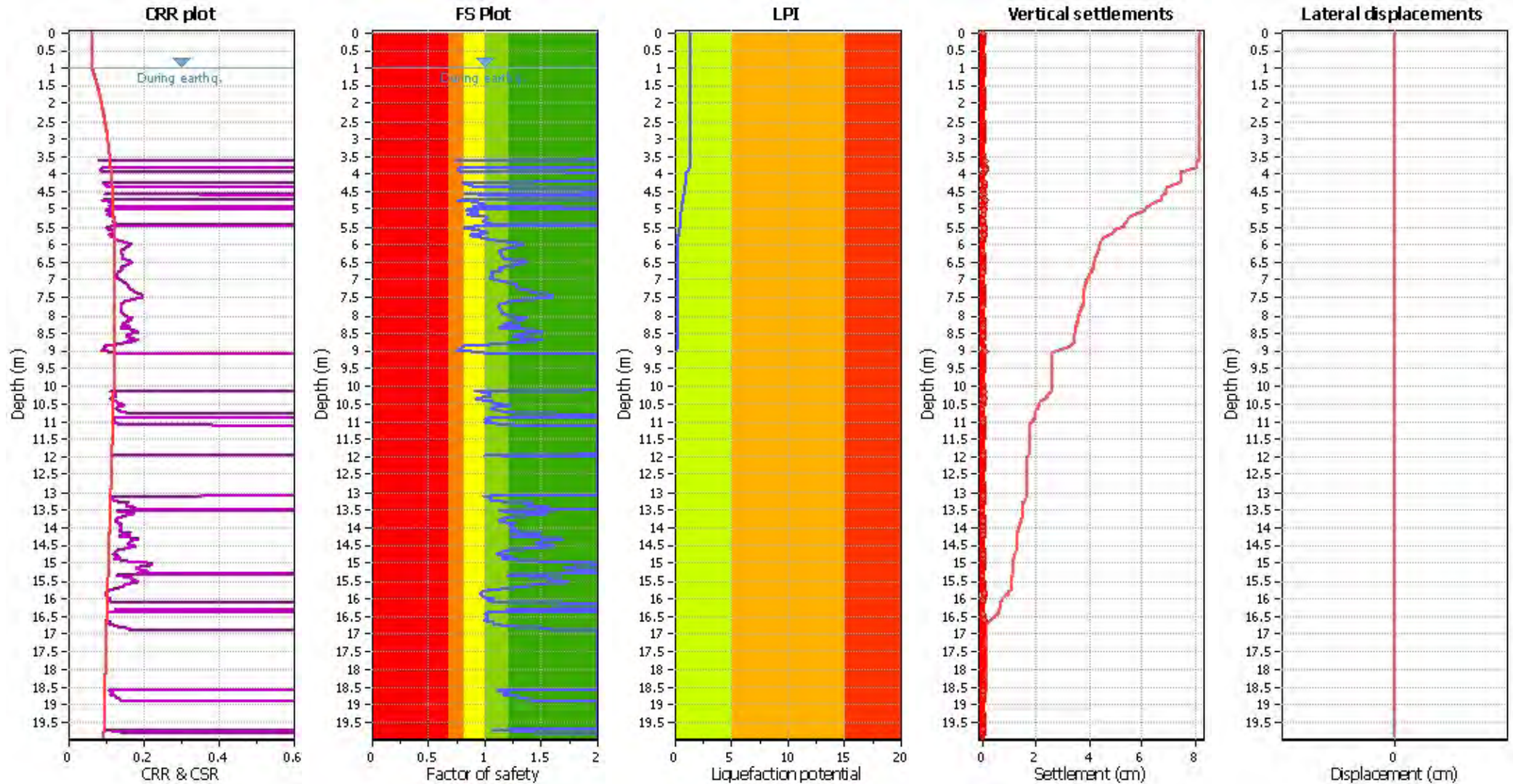


#### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

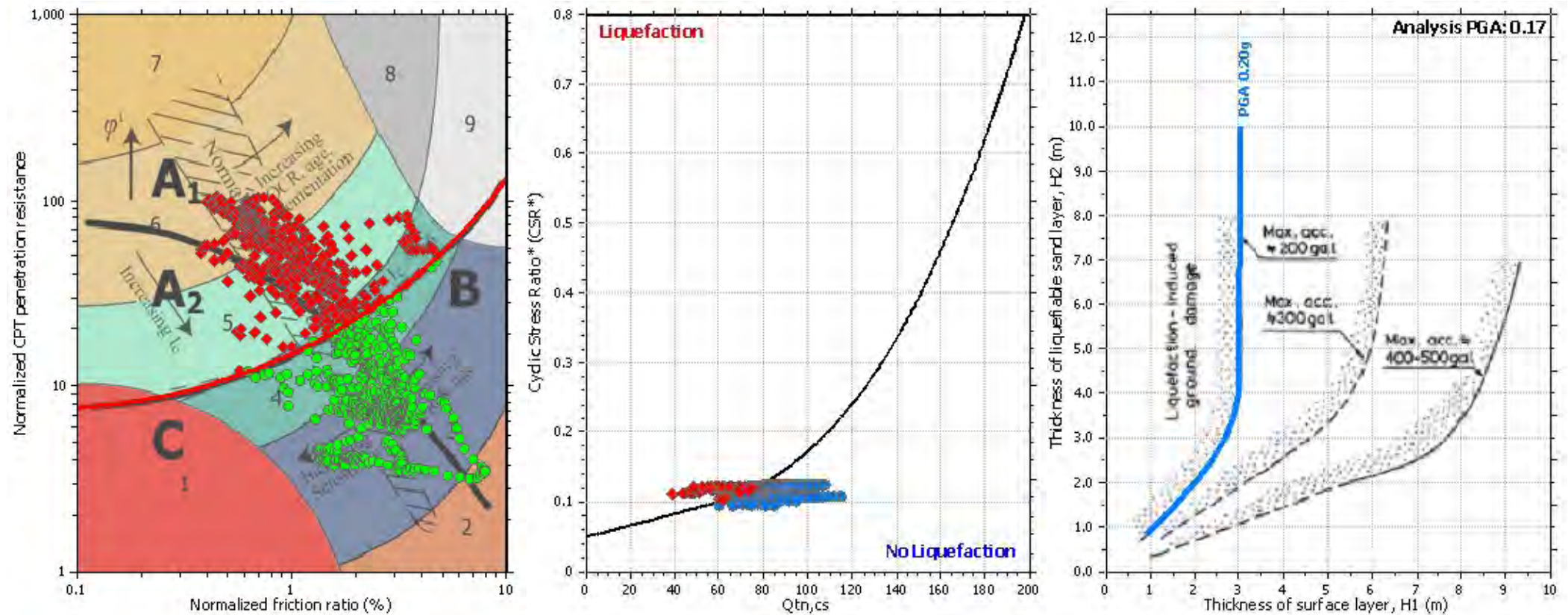
### F.S. color scheme

<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk

## Liquefaction analysis summary plo

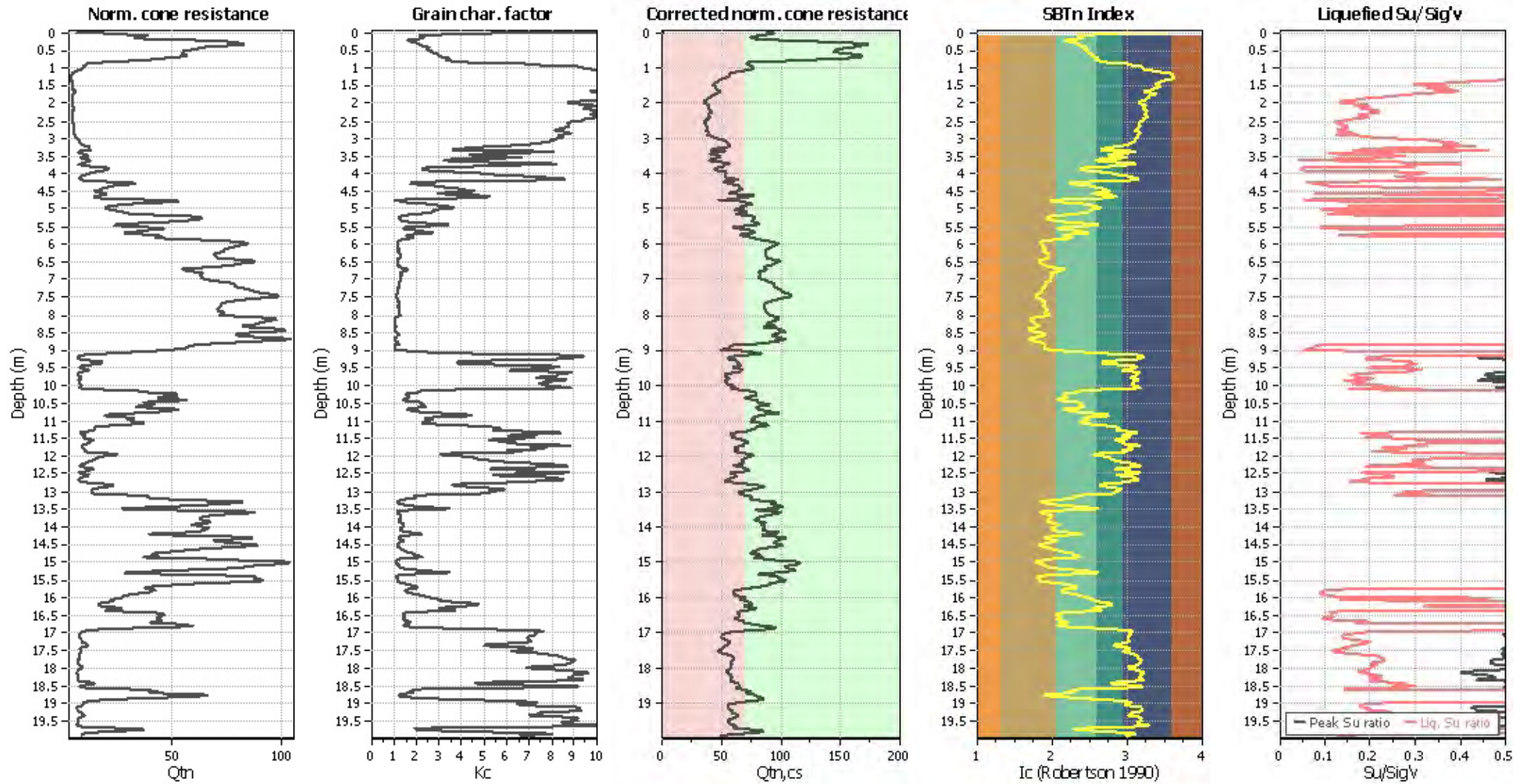


### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	6.00	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	0.74	0.26	8.19	0.02	0.04	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	0.81	0.19	8.10	0.02	0.03
3.82	0.78	0.22	8.09	0.02	0.03	3.84	0.77	0.23	8.08	0.02	0.04

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	0.76	0.24	8.07	0.02	0.04	3.88	0.76	0.24	8.06	0.02	0.04
3.90	0.79	0.21	8.05	0.02	0.03	3.92	0.81	0.19	8.04	0.02	0.03
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	0.79	0.21	7.88	0.02	0.03
4.26	0.81	0.19	7.87	0.02	0.03	4.28	0.83	0.17	7.86	0.02	0.03
4.30	0.85	0.15	7.85	0.02	0.02	4.32	0.86	0.14	7.84	0.02	0.02
4.34	0.88	0.12	7.83	0.02	0.02	4.36	0.89	0.11	7.82	0.02	0.02
4.38	0.89	0.11	7.81	0.02	0.02	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	0.82	0.18	7.72	0.02	0.03
4.58	0.87	0.13	7.71	0.02	0.02	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	0.80	0.20	7.65	0.02	0.03	4.72	0.80	0.20	7.64	0.02	0.03
4.74	0.75	0.25	7.63	0.02	0.04	4.76	0.90	0.10	7.62	0.02	0.02
4.78	0.93	0.07	7.61	0.02	0.01	4.80	0.95	0.05	7.60	0.02	0.01
4.82	0.98	0.02	7.59	0.02	0.00	4.84	1.01	0.00	7.58	0.02	0.00
4.86	0.99	0.01	7.57	0.02	0.00	4.88	0.94	0.06	7.56	0.02	0.01
4.90	0.90	0.10	7.55	0.02	0.01	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	0.86	0.14	7.50	0.02	0.02
5.02	0.84	0.16	7.49	0.02	0.02	5.04	0.85	0.15	7.48	0.02	0.02
5.06	0.90	0.10	7.47	0.02	0.01	5.08	0.94	0.06	7.46	0.02	0.01
5.10	0.93	0.07	7.45	0.02	0.01	5.12	0.89	0.11	7.44	0.02	0.02
5.14	0.85	0.15	7.43	0.02	0.02	5.16	0.87	0.13	7.42	0.02	0.02
5.18	0.92	0.08	7.41	0.02	0.01	5.20	0.98	0.02	7.40	0.02	0.00
5.22	1.02	0.00	7.39	0.02	0.00	5.24	1.03	0.00	7.38	0.02	0.00
5.26	1.02	0.00	7.37	0.02	0.00	5.28	1.01	0.00	7.36	0.02	0.00
5.30	1.00	0.00	7.35	0.02	0.00	5.32	0.99	0.01	7.34	0.02	0.00
5.34	0.99	0.01	7.33	0.02	0.00	5.36	1.00	0.00	7.32	0.02	0.00
5.38	1.03	0.00	7.31	0.02	0.00	5.40	1.05	0.00	7.30	0.02	0.00
5.42	1.08	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	0.92	0.08	7.26	0.02	0.01
5.50	0.85	0.15	7.25	0.02	0.02	5.52	0.82	0.18	7.24	0.02	0.03
5.54	0.84	0.16	7.23	0.02	0.02	5.56	0.87	0.13	7.22	0.02	0.02
5.58	0.90	0.10	7.21	0.02	0.01	5.60	0.95	0.05	7.20	0.02	0.01
5.62	1.00	0.00	7.19	0.02	0.00	5.64	1.02	0.00	7.18	0.02	0.00
5.66	0.99	0.01	7.17	0.02	0.00	5.68	0.92	0.08	7.16	0.02	0.01
5.70	0.87	0.13	7.15	0.02	0.02	5.72	0.87	0.13	7.14	0.02	0.02
5.74	0.90	0.10	7.13	0.02	0.01	5.76	0.93	0.07	7.12	0.02	0.01



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	0.97	0.03	7.11	0.02	0.00	5.80	1.01	0.00	7.10	0.02	0.00
5.82	1.02	0.00	7.09	0.02	0.00	5.84	1.02	0.00	7.08	0.02	0.00
5.86	1.04	0.00	7.07	0.02	0.00	5.88	1.10	0.00	7.06	0.02	0.00
5.90	1.16	0.00	7.05	0.02	0.00	5.92	1.22	0.00	7.04	0.02	0.00
5.94	1.27	0.00	7.03	0.02	0.00	5.96	1.31	0.00	7.02	0.02	0.00
5.98	1.34	0.00	7.01	0.02	0.00	6.00	1.33	0.00	7.00	0.02	0.00
6.02	1.30	0.00	6.99	0.02	0.00	6.04	1.27	0.00	6.98	0.02	0.00
6.06	1.25	0.00	6.97	0.02	0.00	6.08	1.23	0.00	6.96	0.02	0.00
6.10	1.21	0.00	6.95	0.02	0.00	6.12	1.18	0.00	6.94	0.02	0.00
6.14	1.16	0.00	6.93	0.02	0.00	6.16	1.14	0.00	6.92	0.02	0.00
6.18	1.13	0.00	6.91	0.02	0.00	6.20	1.13	0.00	6.90	0.02	0.00
6.22	1.14	0.00	6.89	0.02	0.00	6.24	1.14	0.00	6.88	0.02	0.00
6.26	1.14	0.00	6.87	0.02	0.00	6.28	1.15	0.00	6.86	0.02	0.00
6.30	1.15	0.00	6.85	0.02	0.00	6.32	1.16	0.00	6.84	0.02	0.00
6.34	1.16	0.00	6.83	0.02	0.00	6.36	1.17	0.00	6.82	0.02	0.00
6.38	1.17	0.00	6.81	0.02	0.00	6.40	1.18	0.00	6.80	0.02	0.00
6.42	1.23	0.00	6.79	0.02	0.00	6.44	1.30	0.00	6.78	0.02	0.00
6.46	1.35	0.00	6.77	0.02	0.00	6.48	1.37	0.00	6.76	0.02	0.00
6.50	1.36	0.00	6.75	0.02	0.00	6.52	1.34	0.00	6.74	0.02	0.00
6.54	1.30	0.00	6.73	0.02	0.00	6.56	1.26	0.00	6.72	0.02	0.00
6.58	1.20	0.00	6.71	0.02	0.00	6.60	1.16	0.00	6.70	0.02	0.00
6.62	1.13	0.00	6.69	0.02	0.00	6.64	1.12	0.00	6.68	0.02	0.00
6.66	1.13	0.00	6.67	0.02	0.00	6.68	1.15	0.00	6.66	0.02	0.00
6.70	1.16	0.00	6.65	0.02	0.00	6.72	1.15	0.00	6.64	0.02	0.00
6.74	1.12	0.00	6.63	0.02	0.00	6.76	1.08	0.00	6.62	0.02	0.00
6.78	1.05	0.00	6.61	0.02	0.00	6.80	1.05	0.00	6.60	0.02	0.00
6.82	1.06	0.00	6.59	0.02	0.00	6.84	1.07	0.00	6.58	0.02	0.00
6.86	1.07	0.00	6.57	0.02	0.00	6.88	1.08	0.00	6.56	0.02	0.00
6.90	1.07	0.00	6.55	0.02	0.00	6.92	1.05	0.00	6.54	0.02	0.00
6.94	1.04	0.00	6.53	0.02	0.00	6.96	1.06	0.00	6.52	0.02	0.00
6.98	1.09	0.00	6.51	0.02	0.00	7.00	1.12	0.00	6.50	0.02	0.00
7.02	1.14	0.00	6.49	0.02	0.00	7.04	1.17	0.00	6.48	0.02	0.00
7.06	1.20	0.00	6.47	0.02	0.00	7.08	1.23	0.00	6.46	0.02	0.00
7.10	1.26	0.00	6.45	0.02	0.00	7.12	1.28	0.00	6.44	0.02	0.00
7.14	1.28	0.00	6.43	0.02	0.00	7.16	1.28	0.00	6.42	0.02	0.00
7.18	1.28	0.00	6.41	0.02	0.00	7.20	1.29	0.00	6.40	0.02	0.00
7.22	1.30	0.00	6.39	0.02	0.00	7.24	1.32	0.00	6.38	0.02	0.00
7.26	1.35	0.00	6.37	0.02	0.00	7.28	1.38	0.00	6.36	0.02	0.00
7.30	1.40	0.00	6.35	0.02	0.00	7.32	1.42	0.00	6.34	0.02	0.00
7.34	1.44	0.00	6.33	0.02	0.00	7.36	1.47	0.00	6.32	0.02	0.00
7.38	1.51	0.00	6.31	0.02	0.00	7.40	1.55	0.00	6.30	0.02	0.00
7.42	1.58	0.00	6.29	0.02	0.00	7.44	1.60	0.00	6.28	0.02	0.00
7.46	1.60	0.00	6.27	0.02	0.00	7.48	1.56	0.00	6.26	0.02	0.00
7.50	1.51	0.00	6.25	0.02	0.00	7.52	1.44	0.00	6.24	0.02	0.00
7.54	1.38	0.00	6.23	0.02	0.00	7.56	1.32	0.00	6.22	0.02	0.00
7.58	1.27	0.00	6.21	0.02	0.00	7.60	1.23	0.00	6.20	0.02	0.00
7.62	1.20	0.00	6.19	0.02	0.00	7.64	1.18	0.00	6.18	0.02	0.00
7.66	1.15	0.00	6.17	0.02	0.00	7.68	1.14	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	1.13	0.00	6.15	0.02	0.00	7.72	1.13	0.00	6.14	0.02	0.00
7.74	1.12	0.00	6.13	0.02	0.00	7.76	1.12	0.00	6.12	0.02	0.00
7.78	1.12	0.00	6.11	0.02	0.00	7.80	1.13	0.00	6.10	0.02	0.00
7.82	1.14	0.00	6.09	0.02	0.00	7.84	1.14	0.00	6.08	0.02	0.00
7.86	1.14	0.00	6.07	0.02	0.00	7.88	1.14	0.00	6.06	0.02	0.00
7.90	1.15	0.00	6.05	0.02	0.00	7.92	1.16	0.00	6.04	0.02	0.00
7.94	1.17	0.00	6.03	0.02	0.00	7.96	1.18	0.00	6.02	0.02	0.00
7.98	1.20	0.00	6.01	0.02	0.00	8.00	1.22	0.00	6.00	0.02	0.00
8.02	1.25	0.00	5.99	0.02	0.00	8.04	1.30	0.00	5.98	0.02	0.00
8.06	1.37	0.00	5.97	0.02	0.00	8.08	1.30	0.00	5.96	0.02	0.00
8.10	1.35	0.00	5.95	0.02	0.00	8.12	1.35	0.00	5.94	0.02	0.00
8.14	1.32	0.00	5.93	0.02	0.00	8.16	1.29	0.00	5.92	0.02	0.00
8.18	1.25	0.00	5.91	0.02	0.00	8.20	1.22	0.00	5.90	0.02	0.00
8.22	1.19	0.00	5.89	0.02	0.00	8.24	1.18	0.00	5.88	0.02	0.00
8.26	1.17	0.00	5.87	0.02	0.00	8.28	1.31	0.00	5.86	0.02	0.00
8.30	1.27	0.00	5.85	0.02	0.00	8.32	1.25	0.00	5.84	0.02	0.00
8.34	1.24	0.00	5.83	0.02	0.00	8.36	1.12	0.00	5.82	0.02	0.00
8.38	1.22	0.00	5.81	0.02	0.00	8.40	1.35	0.00	5.80	0.02	0.00
8.42	1.44	0.00	5.79	0.02	0.00	8.44	1.44	0.00	5.78	0.02	0.00
8.46	1.51	0.00	5.77	0.02	0.00	8.48	1.44	0.00	5.76	0.02	0.00
8.50	1.36	0.00	5.75	0.02	0.00	8.52	1.31	0.00	5.74	0.02	0.00
8.54	1.28	0.00	5.73	0.02	0.00	8.56	1.27	0.00	5.72	0.02	0.00
8.58	1.26	0.00	5.71	0.02	0.00	8.60	1.28	0.00	5.70	0.02	0.00
8.62	1.35	0.00	5.69	0.02	0.00	8.64	1.32	0.00	5.68	0.02	0.00
8.66	1.47	0.00	5.67	0.02	0.00	8.68	1.52	0.00	5.66	0.02	0.00
8.70	1.44	0.00	5.65	0.02	0.00	8.72	1.31	0.00	5.64	0.02	0.00
8.74	1.36	0.00	5.63	0.02	0.00	8.76	1.26	0.00	5.62	0.02	0.00
8.78	1.17	0.00	5.61	0.02	0.00	8.80	1.08	0.00	5.60	0.02	0.00
8.82	1.01	0.00	5.59	0.02	0.00	8.84	0.83	0.17	5.58	0.02	0.02
8.86	0.81	0.19	5.57	0.02	0.02	8.88	0.80	0.20	5.56	0.02	0.02
8.90	0.80	0.20	5.55	0.02	0.02	8.92	0.79	0.21	5.54	0.02	0.02
8.94	0.78	0.22	5.53	0.02	0.02	8.96	0.76	0.24	5.52	0.02	0.03
8.98	0.74	0.26	5.51	0.02	0.03	9.00	0.86	0.14	5.50	0.02	0.02
9.02	0.91	0.09	5.49	0.02	0.01	9.04	0.98	0.02	5.48	0.02	0.00
9.06	1.04	0.00	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	0.91	0.09	4.93	0.02	0.01	10.16	0.97	0.03	4.92	0.02	0.00
10.18	1.01	0.00	4.91	0.02	0.00	10.20	1.03	0.00	4.90	0.02	0.00
10.22	1.04	0.00	4.89	0.02	0.00	10.24	1.05	0.00	4.88	0.02	0.00
10.26	1.05	0.00	4.87	0.02	0.00	10.28	1.01	0.00	4.86	0.02	0.00
10.30	0.97	0.03	4.85	0.02	0.00	10.32	0.94	0.06	4.84	0.02	0.01
10.34	0.93	0.07	4.83	0.02	0.01	10.36	0.94	0.06	4.82	0.02	0.01
10.38	0.99	0.01	4.81	0.02	0.00	10.40	1.04	0.00	4.80	0.02	0.00
10.42	1.06	0.00	4.79	0.02	0.00	10.44	1.06	0.00	4.78	0.02	0.00
10.46	1.07	0.00	4.77	0.02	0.00	10.48	1.11	0.00	4.76	0.02	0.00
10.50	1.17	0.00	4.75	0.02	0.00	10.52	1.23	0.00	4.74	0.02	0.00
10.54	1.20	0.00	4.73	0.02	0.00	10.56	1.13	0.00	4.72	0.02	0.00
10.58	1.07	0.00	4.71	0.02	0.00	10.60	1.05	0.00	4.70	0.02	0.00
10.62	1.05	0.00	4.69	0.02	0.00	10.64	1.07	0.00	4.68	0.02	0.00
10.66	1.10	0.00	4.67	0.02	0.00	10.68	1.13	0.00	4.66	0.02	0.00
10.70	1.18	0.00	4.65	0.02	0.00	10.72	1.24	0.00	4.64	0.02	0.00
10.74	1.30	0.00	4.63	0.02	0.00	10.76	1.38	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	1.03	0.00	4.55	0.02	0.00	10.92	1.00	0.00	4.54	0.02	0.00
10.94	1.01	0.00	4.53	0.02	0.00	10.96	1.04	0.00	4.52	0.02	0.00
10.98	1.05	0.00	4.51	0.02	0.00	11.00	1.01	0.00	4.50	0.02	0.00
11.02	1.00	0.00	4.49	0.02	0.00	11.04	1.04	0.00	4.48	0.02	0.00
11.06	1.09	0.00	4.47	0.02	0.00	11.08	1.16	0.00	4.46	0.02	0.00
11.10	1.21	0.00	4.45	0.02	0.00	11.12	2.00	0.00	4.44	0.02	0.00
11.14	2.00	0.00	4.43	0.02	0.00	11.16	2.00	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	1.00	0.00	4.03	0.02	0.00	11.96	1.03	0.00	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	2.00	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	2.00	0.00	3.61	0.02	0.00	12.80	2.00	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	2.00	0.00	3.51	0.02	0.00	13.00	2.00	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	0.99	0.01	3.46	0.02	0.00
13.10	1.02	0.00	3.45	0.02	0.00	13.12	1.06	0.00	3.44	0.02	0.00
13.14	1.07	0.00	3.43	0.02	0.00	13.16	1.06	0.00	3.42	0.02	0.00
13.18	1.05	0.00	3.41	0.02	0.00	13.20	1.05	0.00	3.40	0.02	0.00
13.22	1.09	0.00	3.39	0.02	0.00	13.24	1.19	0.00	3.38	0.02	0.00
13.26	1.32	0.00	3.37	0.02	0.00	13.28	1.41	0.00	3.36	0.02	0.00
13.30	1.43	0.00	3.35	0.02	0.00	13.32	1.41	0.00	3.34	0.02	0.00
13.34	1.37	0.00	3.33	0.02	0.00	13.36	1.36	0.00	3.32	0.02	0.00
13.38	1.39	0.00	3.31	0.02	0.00	13.40	1.49	0.00	3.30	0.02	0.00
13.42	1.58	0.00	3.29	0.02	0.00	13.44	1.57	0.00	3.28	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	1.47	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	1.24	0.00	3.25	0.02	0.00	13.52	1.13	0.00	3.24	0.02	0.00
13.54	1.21	0.00	3.23	0.02	0.00	13.56	1.41	0.00	3.22	0.02	0.00
13.58	1.55	0.00	3.21	0.02	0.00	13.60	1.55	0.00	3.20	0.02	0.00
13.62	1.48	0.00	3.19	0.02	0.00	13.64	1.40	0.00	3.18	0.02	0.00
13.66	1.33	0.00	3.17	0.02	0.00	13.68	1.27	0.00	3.16	0.02	0.00
13.70	1.22	0.00	3.15	0.02	0.00	13.72	1.18	0.00	3.14	0.02	0.00
13.74	1.16	0.00	3.13	0.02	0.00	13.76	1.15	0.00	3.12	0.02	0.00
13.78	1.13	0.00	3.11	0.02	0.00	13.80	1.13	0.00	3.10	0.02	0.00
13.82	1.15	0.00	3.09	0.02	0.00	13.84	1.18	0.00	3.08	0.02	0.00
13.86	1.21	0.00	3.07	0.02	0.00	13.88	1.26	0.00	3.06	0.02	0.00
13.90	1.25	0.00	3.05	0.02	0.00	13.92	1.25	0.00	3.04	0.02	0.00
13.94	1.21	0.00	3.03	0.02	0.00	13.96	1.24	0.00	3.02	0.02	0.00
13.98	1.26	0.00	3.01	0.02	0.00	14.00	1.27	0.00	3.00	0.02	0.00
14.02	1.25	0.00	2.99	0.02	0.00	14.04	1.24	0.00	2.98	0.02	0.00
14.06	1.23	0.00	2.97	0.02	0.00	14.08	1.25	0.00	2.96	0.02	0.00
14.10	1.31	0.00	2.95	0.02	0.00	14.12	1.42	0.00	2.94	0.02	0.00
14.14	1.51	0.00	2.93	0.02	0.00	14.16	1.48	0.00	2.92	0.02	0.00
14.18	1.40	0.00	2.91	0.02	0.00	14.20	1.30	0.00	2.90	0.02	0.00
14.22	1.23	0.00	2.89	0.02	0.00	14.24	1.24	0.00	2.88	0.02	0.00
14.26	1.37	0.00	2.87	0.02	0.00	14.28	1.56	0.00	2.86	0.02	0.00
14.30	1.68	0.00	2.85	0.02	0.00	14.32	1.70	0.00	2.84	0.02	0.00
14.34	1.63	0.00	2.83	0.02	0.00	14.36	1.56	0.00	2.82	0.02	0.00
14.38	1.52	0.00	2.81	0.02	0.00	14.40	1.50	0.00	2.80	0.02	0.00
14.42	1.47	0.00	2.79	0.02	0.00	14.44	1.45	0.00	2.78	0.02	0.00
14.46	1.46	0.00	2.77	0.02	0.00	14.48	1.52	0.00	2.76	0.02	0.00
14.50	1.60	0.00	2.75	0.02	0.00	14.52	1.62	0.00	2.74	0.02	0.00
14.54	1.56	0.00	2.73	0.02	0.00	14.56	1.46	0.00	2.72	0.02	0.00
14.58	1.38	0.00	2.71	0.02	0.00	14.60	1.30	0.00	2.70	0.02	0.00
14.62	1.23	0.00	2.69	0.02	0.00	14.64	1.18	0.00	2.68	0.02	0.00
14.66	1.16	0.00	2.67	0.02	0.00	14.68	1.15	0.00	2.66	0.02	0.00
14.70	1.13	0.00	2.65	0.02	0.00	14.72	1.10	0.00	2.64	0.02	0.00
14.74	1.10	0.00	2.63	0.02	0.00	14.76	1.15	0.00	2.62	0.02	0.00
14.78	1.21	0.00	2.61	0.02	0.00	14.80	1.24	0.00	2.60	0.02	0.00
14.82	1.23	0.00	2.59	0.02	0.00	14.84	1.20	0.00	2.58	0.02	0.00
14.86	1.16	0.00	2.57	0.02	0.00	14.88	1.16	0.00	2.56	0.02	0.00
14.90	1.28	0.00	2.55	0.02	0.00	14.92	1.48	0.00	2.54	0.02	0.00
14.94	1.68	0.00	2.53	0.02	0.00	14.96	1.83	0.00	2.52	0.02	0.00
14.98	1.96	0.00	2.51	0.02	0.00	15.00	2.00	0.00	2.50	0.02	0.00
15.02	2.00	0.00	2.49	0.02	0.00	15.04	2.00	0.00	2.48	0.02	0.00
15.06	2.00	0.00	2.47	0.02	0.00	15.08	1.88	0.00	2.46	0.02	0.00
15.10	1.78	0.00	2.45	0.02	0.00	15.12	1.71	0.00	2.44	0.02	0.00
15.14	1.71	0.00	2.43	0.02	0.00	15.16	1.75	0.00	2.42	0.02	0.00
15.18	1.82	0.00	2.41	0.02	0.00	15.20	1.92	0.00	2.40	0.02	0.00
15.22	1.99	0.00	2.39	0.02	0.00	15.24	1.92	0.00	2.38	0.02	0.00
15.26	1.75	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	1.42	0.00	2.35	0.02	0.00	15.32	1.26	0.00	2.34	0.02	0.00
15.34	1.21	0.00	2.33	0.02	0.00	15.36	1.31	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	1.46	0.00	2.31	0.02	0.00	15.40	1.55	0.00	2.30	0.02	0.00
15.42	1.58	0.00	2.29	0.02	0.00	15.44	1.60	0.00	2.28	0.02	0.00
15.46	1.61	0.00	2.27	0.02	0.00	15.48	1.66	0.00	2.26	0.02	0.00
15.50	1.72	0.00	2.25	0.02	0.00	15.52	1.74	0.00	2.24	0.02	0.00
15.54	1.68	0.00	2.23	0.02	0.00	15.56	1.57	0.00	2.22	0.02	0.00
15.58	1.47	0.00	2.21	0.02	0.00	15.60	1.42	0.00	2.20	0.02	0.00
15.62	1.40	0.00	2.19	0.02	0.00	15.64	1.38	0.00	2.18	0.02	0.00
15.66	1.35	0.00	2.17	0.02	0.00	15.68	1.27	0.00	2.16	0.02	0.00
15.70	1.20	0.00	2.15	0.02	0.00	15.72	1.14	0.00	2.14	0.02	0.00
15.74	1.10	0.00	2.13	0.02	0.00	15.76	1.07	0.00	2.12	0.02	0.00
15.78	1.03	0.00	2.11	0.02	0.00	15.80	0.99	0.01	2.10	0.02	0.00
15.82	0.97	0.03	2.09	0.02	0.00	15.84	0.96	0.04	2.08	0.02	0.00
15.86	0.96	0.04	2.07	0.02	0.00	15.88	0.96	0.04	2.06	0.02	0.00
15.90	0.97	0.03	2.05	0.02	0.00	15.92	0.97	0.03	2.04	0.02	0.00
15.94	0.98	0.02	2.03	0.02	0.00	15.96	1.01	0.00	2.02	0.02	0.00
15.98	1.06	0.00	2.01	0.02	0.00	16.00	1.08	0.00	2.00	0.02	0.00
16.02	1.04	0.00	1.99	0.02	0.00	16.04	1.03	0.00	1.98	0.02	0.00
16.06	1.05	0.00	1.97	0.02	0.00	16.08	1.07	0.00	1.96	0.02	0.00
16.10	1.11	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	1.20	0.00	1.86	0.02	0.00
16.30	1.23	0.00	1.85	0.02	0.00	16.32	1.19	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	1.04	0.00	1.81	0.02	0.00	16.40	1.01	0.00	1.80	0.02	0.00
16.42	1.01	0.00	1.79	0.02	0.00	16.44	1.02	0.00	1.78	0.02	0.00
16.46	1.02	0.00	1.77	0.02	0.00	16.48	1.02	0.00	1.76	0.02	0.00
16.50	1.02	0.00	1.75	0.02	0.00	16.52	1.02	0.00	1.74	0.02	0.00
16.54	1.02	0.00	1.73	0.02	0.00	16.56	1.01	0.00	1.72	0.02	0.00
16.58	1.00	0.00	1.71	0.02	0.00	16.60	0.99	0.01	1.70	0.02	0.00
16.62	1.00	0.00	1.69	0.02	0.00	16.64	1.02	0.00	1.68	0.02	0.00
16.66	1.05	0.00	1.67	0.02	0.00	16.68	1.08	0.00	1.66	0.02	0.00
16.70	1.08	0.00	1.65	0.02	0.00	16.72	1.07	0.00	1.64	0.02	0.00
16.74	1.09	0.00	1.63	0.02	0.00	16.76	1.16	0.00	1.62	0.02	0.00
16.78	1.28	0.00	1.61	0.02	0.00	16.80	1.41	0.00	1.60	0.02	0.00
16.82	1.51	0.00	1.59	0.02	0.00	16.84	1.58	0.00	1.58	0.02	0.00
16.86	1.59	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	2.00	0.00	1.54	0.02	0.00
16.94	2.00	0.00	1.53	0.02	0.00	16.96	2.00	0.00	1.52	0.02	0.00
16.98	2.00	0.00	1.51	0.02	0.00	17.00	2.00	0.00	1.50	0.02	0.00
17.02	2.00	0.00	1.49	0.02	0.00	17.04	2.00	0.00	1.48	0.02	0.00
17.06	2.00	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	1.11	0.00	0.70	0.02	0.00
18.62	1.19	0.00	0.69	0.02	0.00	18.64	1.22	0.00	0.68	0.02	0.00
18.66	1.21	0.00	0.67	0.02	0.00	18.68	1.18	0.00	0.66	0.02	0.00
18.70	1.17	0.00	0.65	0.02	0.00	18.72	1.21	0.00	0.64	0.02	0.00
18.74	1.28	0.00	0.63	0.02	0.00	18.76	1.30	0.00	0.62	0.02	0.00
18.78	1.31	0.00	0.61	0.02	0.00	18.80	1.34	0.00	0.60	0.02	0.00
18.82	1.38	0.00	0.59	0.02	0.00	18.84	1.41	0.00	0.58	0.02	0.00
18.86	1.42	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	1.07	0.00	0.16	0.02	0.00
19.70	1.14	0.00	0.15	0.02	0.00	19.72	1.27	0.00	0.14	0.02	0.00
19.74	1.38	0.00	0.13	0.02	0.00	19.76	1.46	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 1.33**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point



## LIQUEFACTION ANALYSIS REPORT

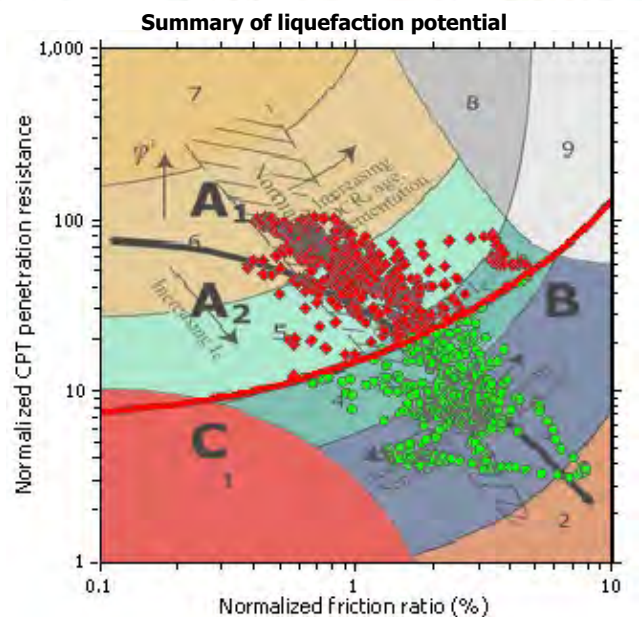
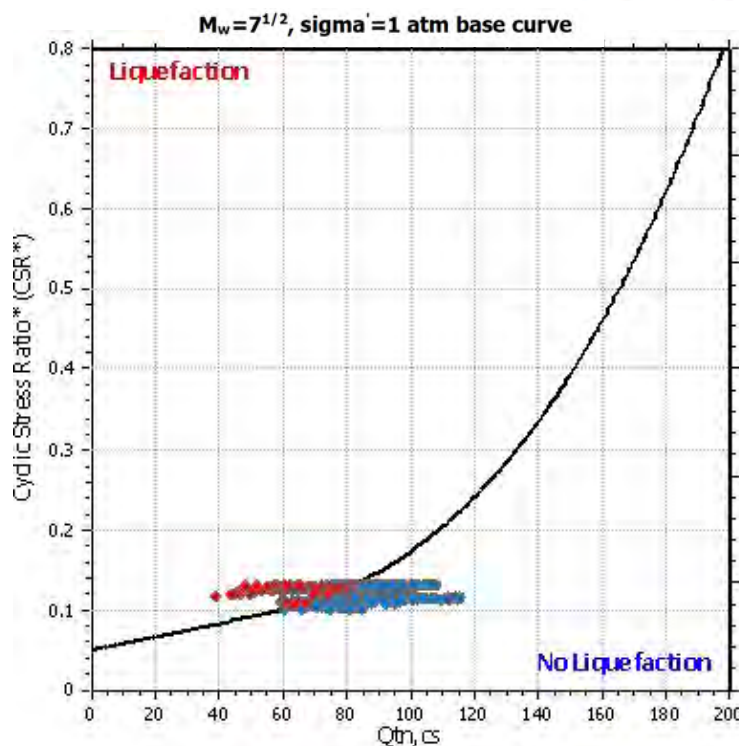
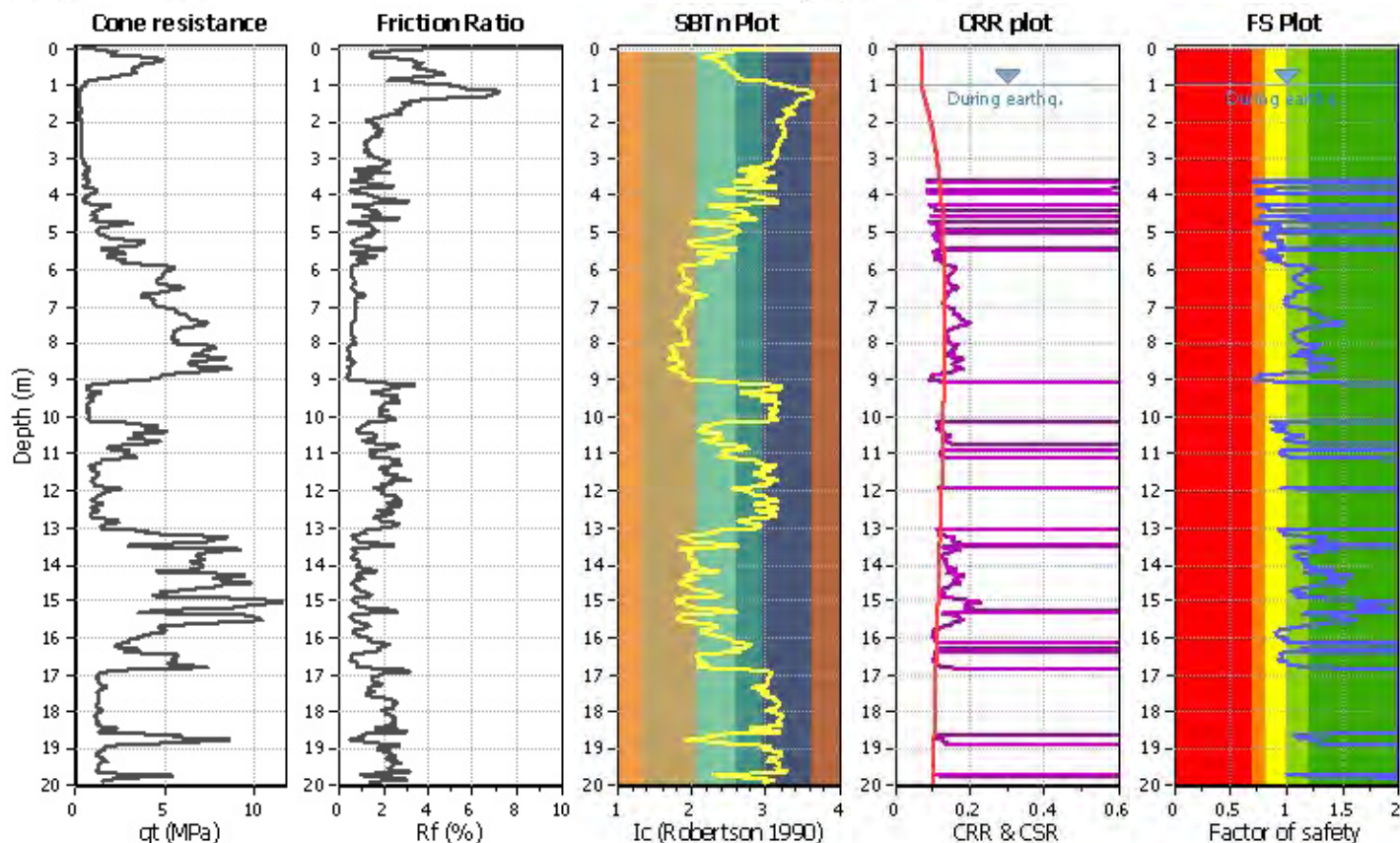
**Project title :**

**Location :**

**CPT file : CPTU4**

### Input parameters and analysis data

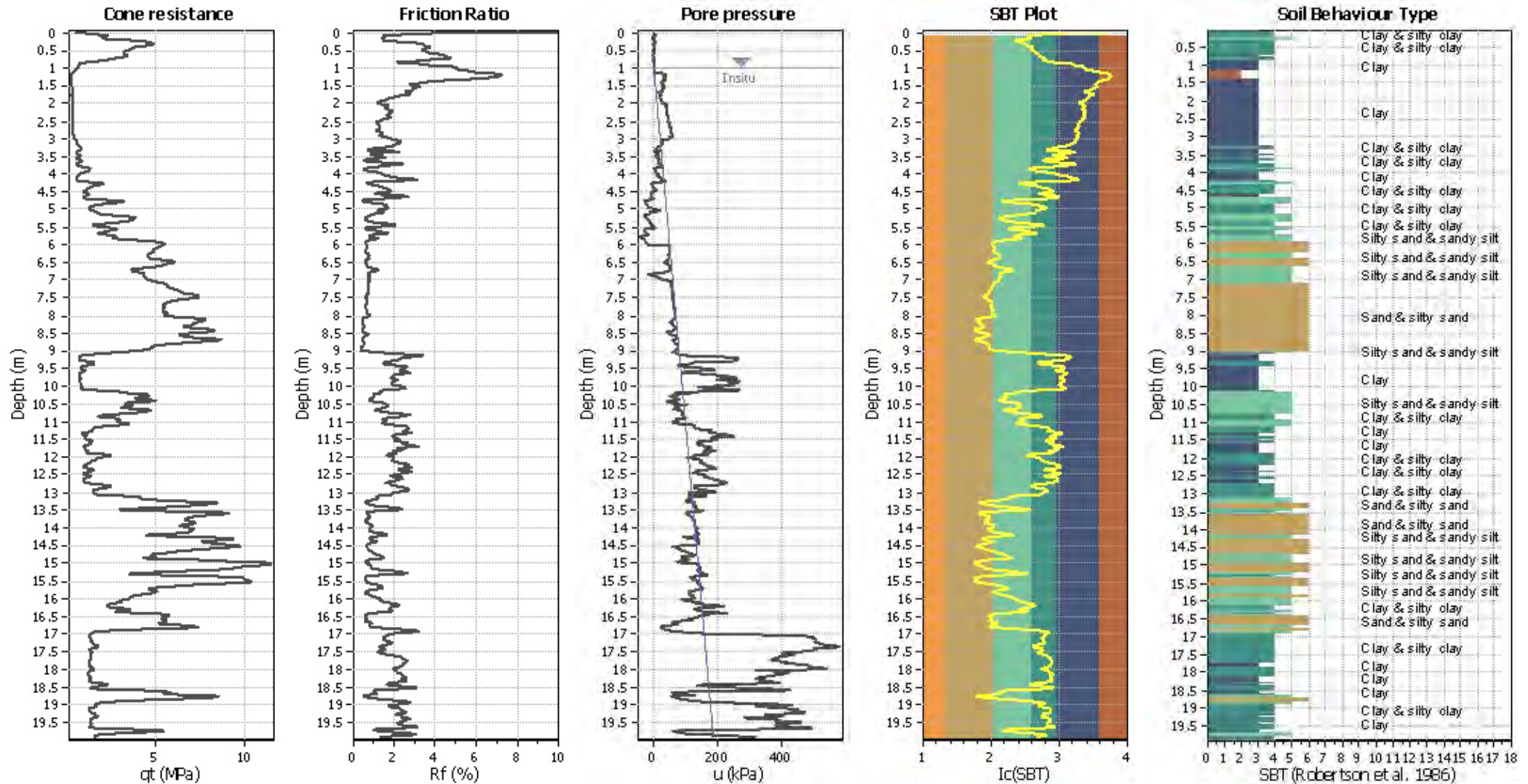
Analysis method:	NCEER (1998)	G.W.T. (in-situ):	1.00 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	1.00 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude $M_w$ :	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.17	Unit weight calculation:	Based on SBT	$K_0$ applied:	Yes		



Zone A1: Cyclic liquefaction likely depending on size and duration of cyclic loading  
 Zone A2: 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 plo



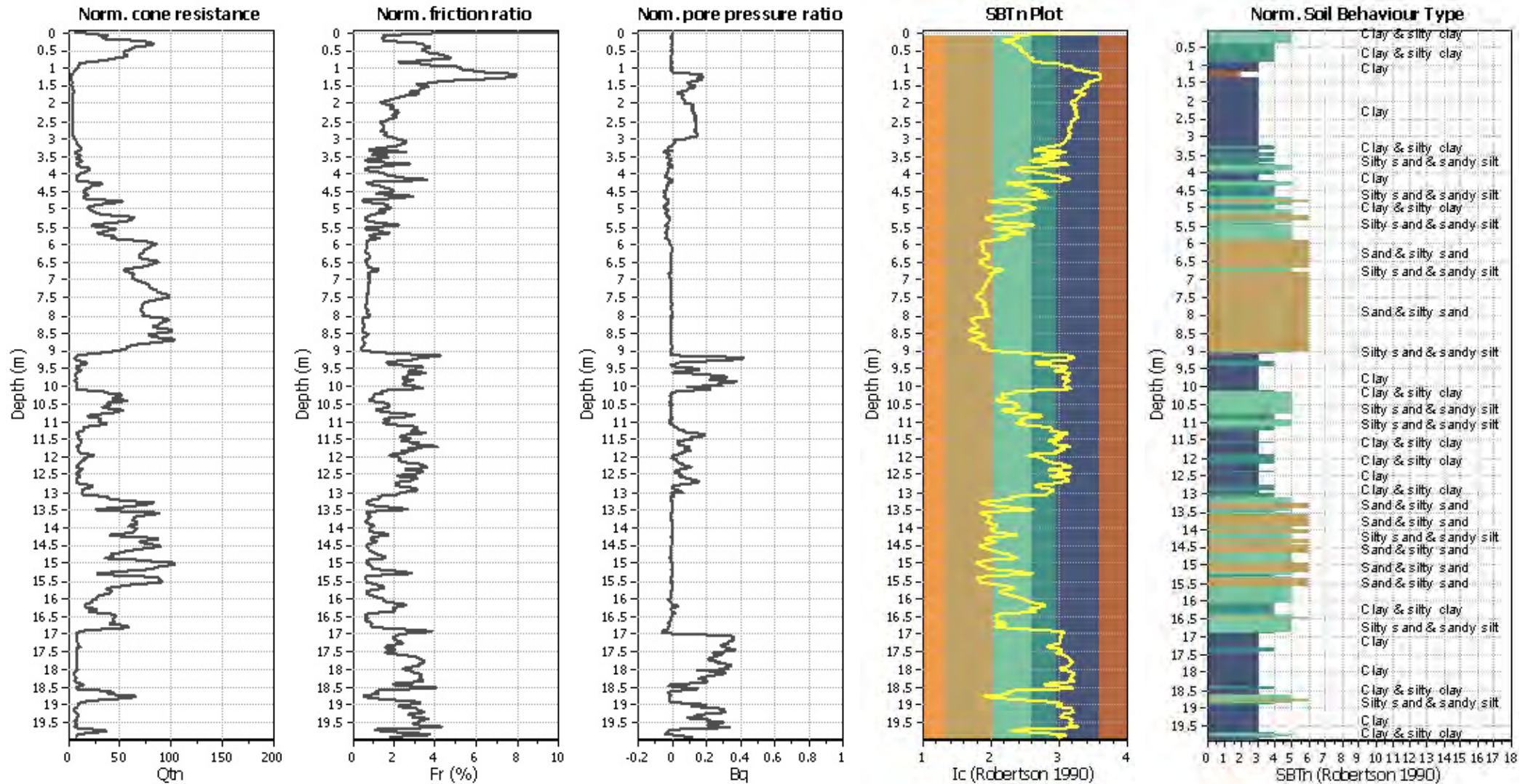
## Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained

## CPT basic interpretation plots (normaliz



## Input parameters and analysis data

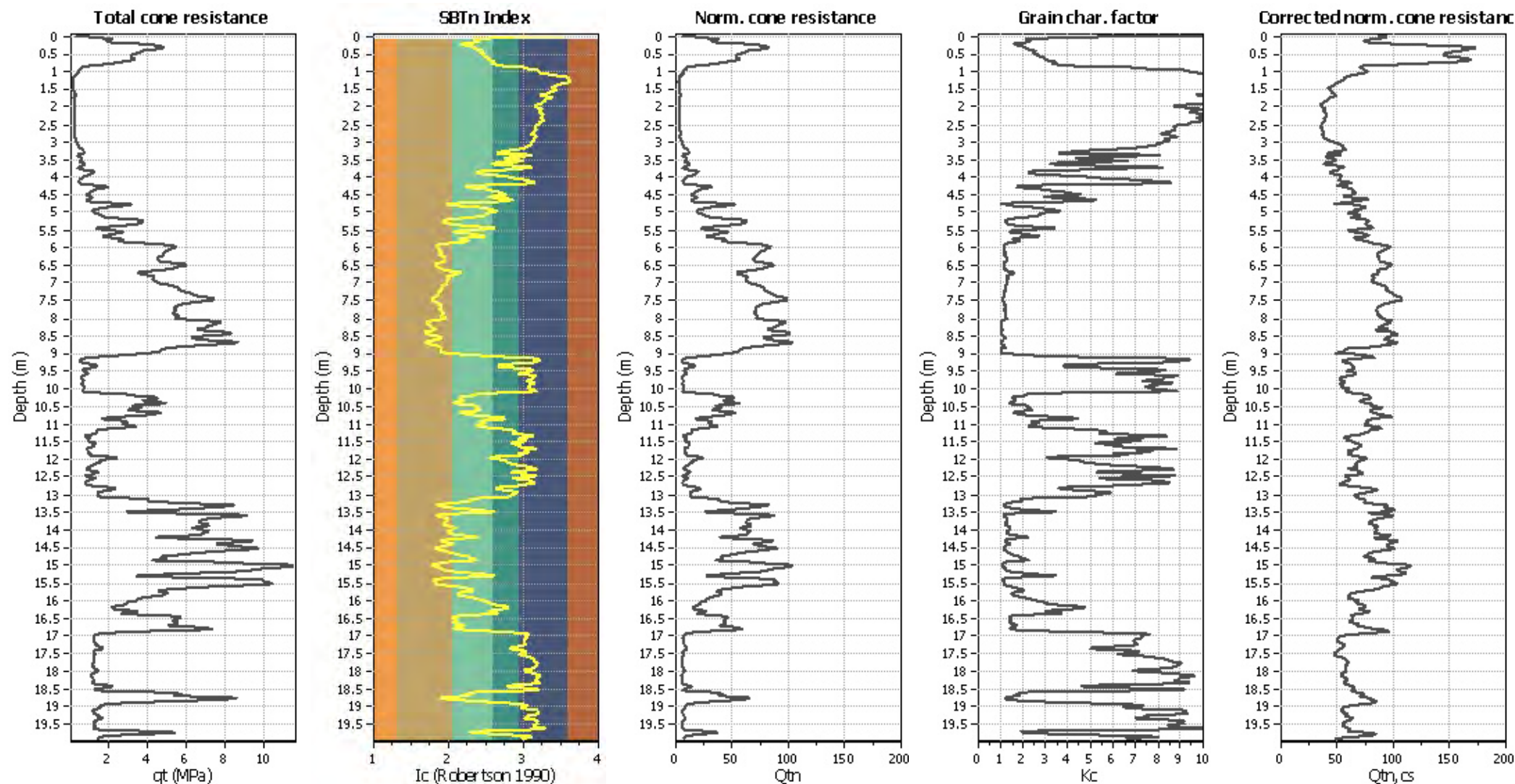
Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K <sub>0</sub> applied:	Yes
Earthquake magnitude M <sub>w</sub> :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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	4. Clayey silt to silty	7. Gravely sand to sand
2. Organic material	5. Silty sand to sandy silt	8. Very stiff sand to
3. Clay to silty clay	6. Clean sand to silty sand	9. Very stiff fine grained



## Liquefaction analysis overall plots (intermediate res)

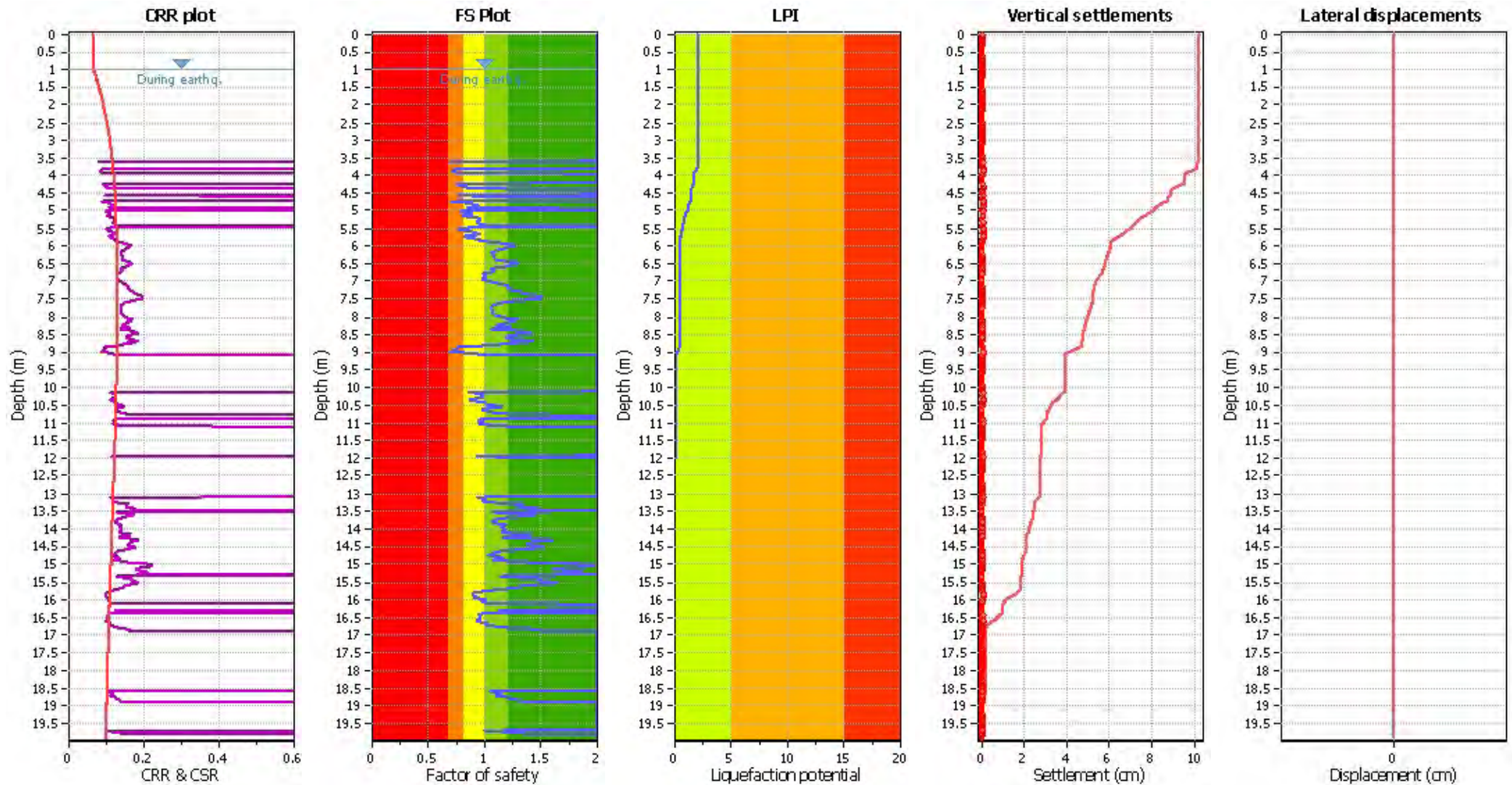


### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_{\alpha}$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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 plot



### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (earthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

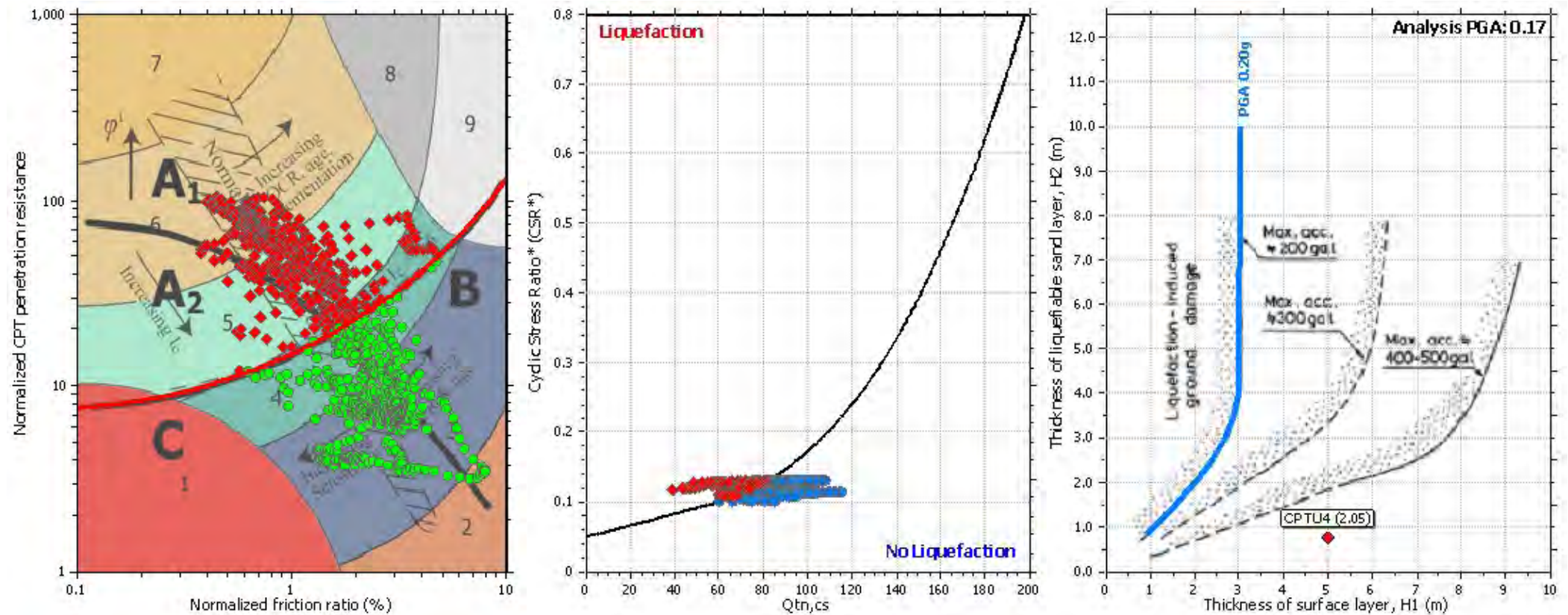
### F.S. color scheme

<span style="color: red;">■</span>	Almost certain it will liquefy
<span style="color: orange;">■</span>	Very likely to liquefy
<span style="color: yellow;">■</span>	Liquefaction and no liq. are equally likely
<span style="color: lightgreen;">■</span>	Unlike to liquefy
<span style="color: green;">■</span>	Almost certain it will not liquefy

### LPI color scheme

<span style="color: red;">■</span>	Very high risk
<span style="color: orange;">■</span>	High risk
<span style="color: yellow;">■</span>	Low risk

## Liquefaction analysis summary plo

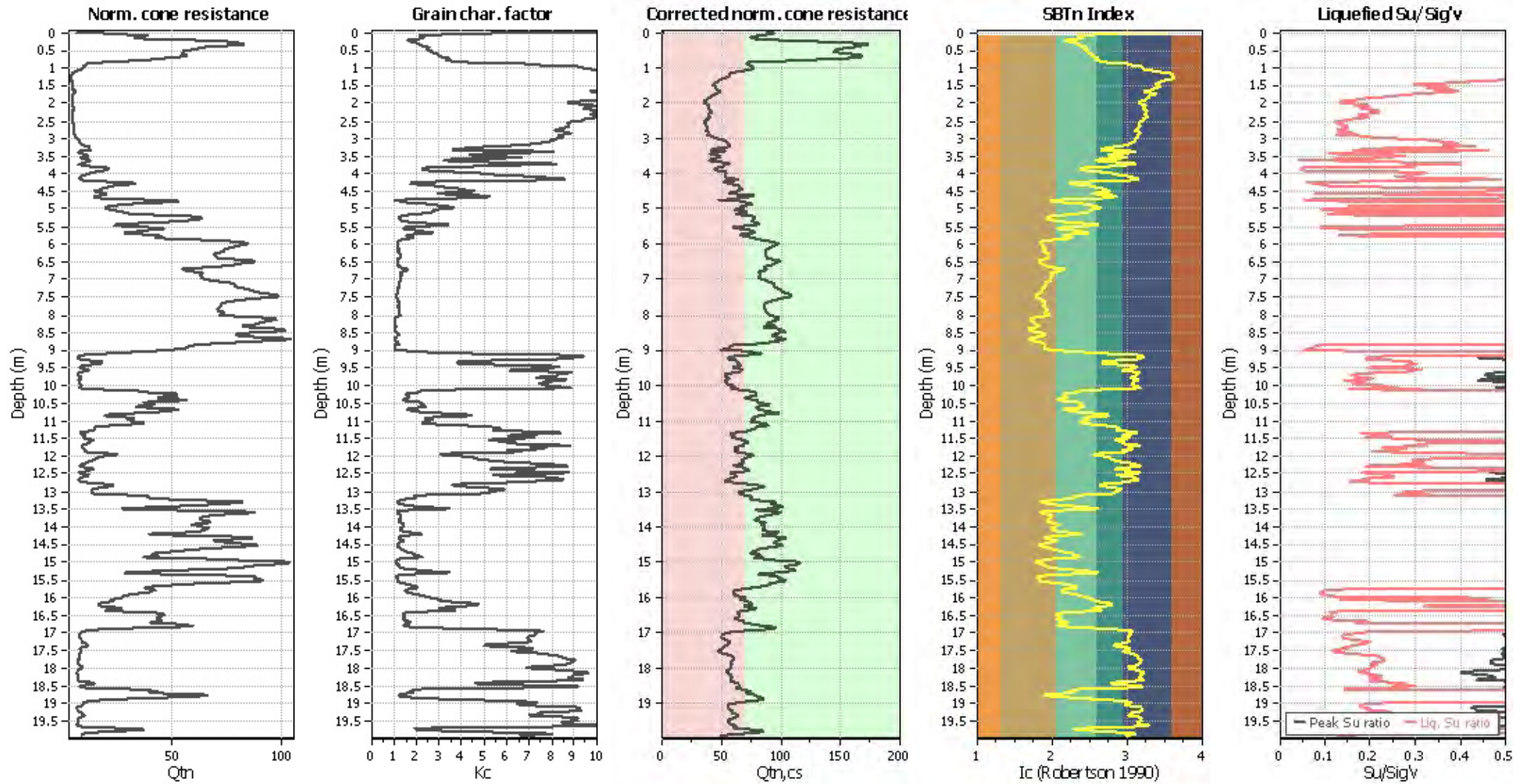


### Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $i_c$ value	$i_c$ cut-off value:	2.60	$K_0$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	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:	NCEER (1998)	Depth to water table (erthq.):	1.00 m	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on $I_c$ value	$I_c$ cut-off value:	2.60	$K_o$ applied:	Yes
Earthquake magnitude $M_w$ :	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.17	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	1.00 m	Fill height:	N/A	Limit depth:	N/A

:: Liquefaction Potential Index calculation data ::											
Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
0.02	2.00	0.00	9.99	0.02	0.00	0.04	2.00	0.00	9.98	0.02	0.00
0.06	2.00	0.00	9.97	0.02	0.00	0.08	2.00	0.00	9.96	0.02	0.00
0.10	2.00	0.00	9.95	0.02	0.00	0.12	2.00	0.00	9.94	0.02	0.00
0.14	2.00	0.00	9.93	0.02	0.00	0.16	2.00	0.00	9.92	0.02	0.00
0.18	2.00	0.00	9.91	0.02	0.00	0.20	2.00	0.00	9.90	0.02	0.00
0.22	2.00	0.00	9.89	0.02	0.00	0.24	2.00	0.00	9.88	0.02	0.00
0.26	2.00	0.00	9.87	0.02	0.00	0.28	2.00	0.00	9.86	0.02	0.00
0.30	2.00	0.00	9.85	0.02	0.00	0.32	2.00	0.00	9.84	0.02	0.00
0.34	2.00	0.00	9.83	0.02	0.00	0.36	2.00	0.00	9.82	0.02	0.00
0.38	2.00	0.00	9.81	0.02	0.00	0.40	2.00	0.00	9.80	0.02	0.00
0.42	2.00	0.00	9.79	0.02	0.00	0.44	2.00	0.00	9.78	0.02	0.00
0.46	2.00	0.00	9.77	0.02	0.00	0.48	2.00	0.00	9.76	0.02	0.00
0.50	2.00	0.00	9.75	0.02	0.00	0.52	2.00	0.00	9.74	0.02	0.00
0.54	2.00	0.00	9.73	0.02	0.00	0.56	2.00	0.00	9.72	0.02	0.00
0.58	2.00	0.00	9.71	0.02	0.00	0.60	2.00	0.00	9.70	0.02	0.00
0.62	2.00	0.00	9.69	0.02	0.00	0.64	2.00	0.00	9.68	0.02	0.00
0.66	2.00	0.00	9.67	0.02	0.00	0.68	2.00	0.00	9.66	0.02	0.00
0.70	2.00	0.00	9.65	0.02	0.00	0.72	2.00	0.00	9.64	0.02	0.00
0.74	2.00	0.00	9.63	0.02	0.00	0.76	2.00	0.00	9.62	0.02	0.00
0.78	2.00	0.00	9.61	0.02	0.00	0.80	2.00	0.00	9.60	0.02	0.00
0.82	2.00	0.00	9.59	0.02	0.00	0.84	2.00	0.00	9.58	0.02	0.00
0.86	2.00	0.00	9.57	0.02	0.00	0.88	2.00	0.00	9.56	0.02	0.00
0.90	2.00	0.00	9.55	0.02	0.00	0.92	2.00	0.00	9.54	0.02	0.00
0.94	2.00	0.00	9.53	0.02	0.00	0.96	2.00	0.00	9.52	0.02	0.00
0.98	2.00	0.00	9.51	0.02	0.00	1.00	2.00	0.00	9.50	0.02	0.00
1.02	2.00	0.00	9.49	0.02	0.00	1.04	2.00	0.00	9.48	0.02	0.00
1.06	2.00	0.00	9.47	0.02	0.00	1.08	2.00	0.00	9.46	0.02	0.00
1.10	2.00	0.00	9.45	0.02	0.00	1.12	2.00	0.00	9.44	0.02	0.00
1.14	2.00	0.00	9.43	0.02	0.00	1.16	2.00	0.00	9.42	0.02	0.00
1.18	2.00	0.00	9.41	0.02	0.00	1.20	2.00	0.00	9.40	0.02	0.00
1.22	2.00	0.00	9.39	0.02	0.00	1.24	2.00	0.00	9.38	0.02	0.00
1.26	2.00	0.00	9.37	0.02	0.00	1.28	2.00	0.00	9.36	0.02	0.00
1.30	2.00	0.00	9.35	0.02	0.00	1.32	2.00	0.00	9.34	0.02	0.00
1.34	2.00	0.00	9.33	0.02	0.00	1.36	2.00	0.00	9.32	0.02	0.00
1.38	2.00	0.00	9.31	0.02	0.00	1.40	2.00	0.00	9.30	0.02	0.00
1.42	2.00	0.00	9.29	0.02	0.00	1.44	2.00	0.00	9.28	0.02	0.00
1.46	2.00	0.00	9.27	0.02	0.00	1.48	2.00	0.00	9.26	0.02	0.00
1.50	2.00	0.00	9.25	0.02	0.00	1.52	2.00	0.00	9.24	0.02	0.00
1.54	2.00	0.00	9.23	0.02	0.00	1.56	2.00	0.00	9.22	0.02	0.00
1.58	2.00	0.00	9.21	0.02	0.00	1.60	2.00	0.00	9.20	0.02	0.00
1.62	2.00	0.00	9.19	0.02	0.00	1.64	2.00	0.00	9.18	0.02	0.00
1.66	2.00	0.00	9.17	0.02	0.00	1.68	2.00	0.00	9.16	0.02	0.00
1.70	2.00	0.00	9.15	0.02	0.00	1.72	2.00	0.00	9.14	0.02	0.00
1.74	2.00	0.00	9.13	0.02	0.00	1.76	2.00	0.00	9.12	0.02	0.00
1.78	2.00	0.00	9.11	0.02	0.00	1.80	2.00	0.00	9.10	0.02	0.00
1.82	2.00	0.00	9.09	0.02	0.00	1.84	2.00	0.00	9.08	0.02	0.00
1.86	2.00	0.00	9.07	0.02	0.00	1.88	2.00	0.00	9.06	0.02	0.00
1.90	2.00	0.00	9.05	0.02	0.00	1.92	2.00	0.00	9.04	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
1.94	2.00	0.00	9.03	0.02	0.00	1.96	2.00	0.00	9.02	0.02	0.00
1.98	2.00	0.00	9.01	0.02	0.00	2.00	2.00	0.00	9.00	0.02	0.00
2.02	2.00	0.00	8.99	0.02	0.00	2.04	2.00	0.00	8.98	0.02	0.00
2.06	2.00	0.00	8.97	0.02	0.00	2.08	2.00	0.00	8.96	0.02	0.00
2.10	2.00	0.00	8.95	0.02	0.00	2.12	2.00	0.00	8.94	0.02	0.00
2.14	2.00	0.00	8.93	0.02	0.00	2.16	2.00	0.00	8.92	0.02	0.00
2.18	2.00	0.00	8.91	0.02	0.00	2.20	2.00	0.00	8.90	0.02	0.00
2.22	2.00	0.00	8.89	0.02	0.00	2.24	2.00	0.00	8.88	0.02	0.00
2.26	2.00	0.00	8.87	0.02	0.00	2.28	2.00	0.00	8.86	0.02	0.00
2.30	2.00	0.00	8.85	0.02	0.00	2.32	2.00	0.00	8.84	0.02	0.00
2.34	2.00	0.00	8.83	0.02	0.00	2.36	2.00	0.00	8.82	0.02	0.00
2.38	2.00	0.00	8.81	0.02	0.00	2.40	2.00	0.00	8.80	0.02	0.00
2.42	2.00	0.00	8.79	0.02	0.00	2.44	2.00	0.00	8.78	0.02	0.00
2.46	2.00	0.00	8.77	0.02	0.00	2.48	2.00	0.00	8.76	0.02	0.00
2.50	2.00	0.00	8.75	0.02	0.00	2.52	2.00	0.00	8.74	0.02	0.00
2.54	2.00	0.00	8.73	0.02	0.00	2.56	2.00	0.00	8.72	0.02	0.00
2.58	2.00	0.00	8.71	0.02	0.00	2.60	2.00	0.00	8.70	0.02	0.00
2.62	2.00	0.00	8.69	0.02	0.00	2.64	2.00	0.00	8.68	0.02	0.00
2.66	2.00	0.00	8.67	0.02	0.00	2.68	2.00	0.00	8.66	0.02	0.00
2.70	2.00	0.00	8.65	0.02	0.00	2.72	2.00	0.00	8.64	0.02	0.00
2.74	2.00	0.00	8.63	0.02	0.00	2.76	2.00	0.00	8.62	0.02	0.00
2.78	2.00	0.00	8.61	0.02	0.00	2.80	2.00	0.00	8.60	0.02	0.00
2.82	2.00	0.00	8.59	0.02	0.00	2.84	2.00	0.00	8.58	0.02	0.00
2.86	2.00	0.00	8.57	0.02	0.00	2.88	2.00	0.00	8.56	0.02	0.00
2.90	2.00	0.00	8.55	0.02	0.00	2.92	2.00	0.00	8.54	0.02	0.00
2.94	2.00	0.00	8.53	0.02	0.00	2.96	2.00	0.00	8.52	0.02	0.00
2.98	2.00	0.00	8.51	0.02	0.00	3.00	2.00	0.00	8.50	0.02	0.00
3.02	2.00	0.00	8.49	0.02	0.00	3.04	2.00	0.00	8.48	0.02	0.00
3.06	2.00	0.00	8.47	0.02	0.00	3.08	2.00	0.00	8.46	0.02	0.00
3.10	2.00	0.00	8.45	0.02	0.00	3.12	2.00	0.00	8.44	0.02	0.00
3.14	2.00	0.00	8.43	0.02	0.00	3.16	2.00	0.00	8.42	0.02	0.00
3.18	2.00	0.00	8.41	0.02	0.00	3.20	2.00	0.00	8.40	0.02	0.00
3.22	2.00	0.00	8.39	0.02	0.00	3.24	2.00	0.00	8.38	0.02	0.00
3.26	2.00	0.00	8.37	0.02	0.00	3.28	2.00	0.00	8.36	0.02	0.00
3.30	2.00	0.00	8.35	0.02	0.00	3.32	2.00	0.00	8.34	0.02	0.00
3.34	2.00	0.00	8.33	0.02	0.00	3.36	2.00	0.00	8.32	0.02	0.00
3.38	2.00	0.00	8.31	0.02	0.00	3.40	2.00	0.00	8.30	0.02	0.00
3.42	2.00	0.00	8.29	0.02	0.00	3.44	2.00	0.00	8.28	0.02	0.00
3.46	2.00	0.00	8.27	0.02	0.00	3.48	2.00	0.00	8.26	0.02	0.00
3.50	2.00	0.00	8.25	0.02	0.00	3.52	2.00	0.00	8.24	0.02	0.00
3.54	2.00	0.00	8.23	0.02	0.00	3.56	2.00	0.00	8.22	0.02	0.00
3.58	2.00	0.00	8.21	0.02	0.00	3.60	2.00	0.00	8.20	0.02	0.00
3.62	0.70	0.30	8.19	0.02	0.05	3.64	2.00	0.00	8.18	0.02	0.00
3.66	2.00	0.00	8.17	0.02	0.00	3.68	2.00	0.00	8.16	0.02	0.00
3.70	2.00	0.00	8.15	0.02	0.00	3.72	2.00	0.00	8.14	0.02	0.00
3.74	2.00	0.00	8.13	0.02	0.00	3.76	2.00	0.00	8.12	0.02	0.00
3.78	2.00	0.00	8.11	0.02	0.00	3.80	0.76	0.24	8.10	0.02	0.04
3.82	0.74	0.26	8.09	0.02	0.04	3.84	0.73	0.27	8.08	0.02	0.04

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
3.86	0.72	0.28	8.07	0.02	0.05	3.88	0.72	0.28	8.06	0.02	0.05
3.90	0.74	0.26	8.05	0.02	0.04	3.92	0.76	0.24	8.04	0.02	0.04
3.94	2.00	0.00	8.03	0.02	0.00	3.96	2.00	0.00	8.02	0.02	0.00
3.98	2.00	0.00	8.01	0.02	0.00	4.00	2.00	0.00	8.00	0.02	0.00
4.02	2.00	0.00	7.99	0.02	0.00	4.04	2.00	0.00	7.98	0.02	0.00
4.06	2.00	0.00	7.97	0.02	0.00	4.08	2.00	0.00	7.96	0.02	0.00
4.10	2.00	0.00	7.95	0.02	0.00	4.12	2.00	0.00	7.94	0.02	0.00
4.14	2.00	0.00	7.93	0.02	0.00	4.16	2.00	0.00	7.92	0.02	0.00
4.18	2.00	0.00	7.91	0.02	0.00	4.20	2.00	0.00	7.90	0.02	0.00
4.22	2.00	0.00	7.89	0.02	0.00	4.24	0.74	0.26	7.88	0.02	0.04
4.26	0.76	0.24	7.87	0.02	0.04	4.28	0.78	0.22	7.86	0.02	0.03
4.30	0.80	0.20	7.85	0.02	0.03	4.32	0.81	0.19	7.84	0.02	0.03
4.34	0.83	0.17	7.83	0.02	0.03	4.36	0.84	0.16	7.82	0.02	0.02
4.38	0.84	0.16	7.81	0.02	0.02	4.40	2.00	0.00	7.80	0.02	0.00
4.42	2.00	0.00	7.79	0.02	0.00	4.44	2.00	0.00	7.78	0.02	0.00
4.46	2.00	0.00	7.77	0.02	0.00	4.48	2.00	0.00	7.76	0.02	0.00
4.50	2.00	0.00	7.75	0.02	0.00	4.52	2.00	0.00	7.74	0.02	0.00
4.54	2.00	0.00	7.73	0.02	0.00	4.56	0.77	0.23	7.72	0.02	0.04
4.58	0.82	0.18	7.71	0.02	0.03	4.60	2.00	0.00	7.70	0.02	0.00
4.62	2.00	0.00	7.69	0.02	0.00	4.64	2.00	0.00	7.68	0.02	0.00
4.66	2.00	0.00	7.67	0.02	0.00	4.68	2.00	0.00	7.66	0.02	0.00
4.70	0.75	0.25	7.65	0.02	0.04	4.72	0.75	0.25	7.64	0.02	0.04
4.74	0.71	0.29	7.63	0.02	0.04	4.76	0.85	0.15	7.62	0.02	0.02
4.78	0.87	0.13	7.61	0.02	0.02	4.80	0.89	0.11	7.60	0.02	0.02
4.82	0.92	0.08	7.59	0.02	0.01	4.84	0.95	0.05	7.58	0.02	0.01
4.86	0.93	0.07	7.57	0.02	0.01	4.88	0.88	0.12	7.56	0.02	0.02
4.90	0.85	0.15	7.55	0.02	0.02	4.92	2.00	0.00	7.54	0.02	0.00
4.94	2.00	0.00	7.53	0.02	0.00	4.96	2.00	0.00	7.52	0.02	0.00
4.98	2.00	0.00	7.51	0.02	0.00	5.00	0.81	0.19	7.50	0.02	0.03
5.02	0.79	0.21	7.49	0.02	0.03	5.04	0.80	0.20	7.48	0.02	0.03
5.06	0.85	0.15	7.47	0.02	0.02	5.08	0.89	0.11	7.46	0.02	0.02
5.10	0.88	0.12	7.45	0.02	0.02	5.12	0.83	0.17	7.44	0.02	0.02
5.14	0.80	0.20	7.43	0.02	0.03	5.16	0.82	0.18	7.42	0.02	0.03
5.18	0.86	0.14	7.41	0.02	0.02	5.20	0.93	0.07	7.40	0.02	0.01
5.22	0.96	0.04	7.39	0.02	0.01	5.24	0.97	0.03	7.38	0.02	0.00
5.26	0.96	0.04	7.37	0.02	0.01	5.28	0.96	0.04	7.36	0.02	0.01
5.30	0.94	0.06	7.35	0.02	0.01	5.32	0.93	0.07	7.34	0.02	0.01
5.34	0.93	0.07	7.33	0.02	0.01	5.36	0.95	0.05	7.32	0.02	0.01
5.38	0.97	0.03	7.31	0.02	0.00	5.40	0.99	0.01	7.30	0.02	0.00
5.42	1.01	0.00	7.29	0.02	0.00	5.44	2.00	0.00	7.28	0.02	0.00
5.46	2.00	0.00	7.27	0.02	0.00	5.48	0.86	0.14	7.26	0.02	0.02
5.50	0.80	0.20	7.25	0.02	0.03	5.52	0.78	0.22	7.24	0.02	0.03
5.54	0.79	0.21	7.23	0.02	0.03	5.56	0.82	0.18	7.22	0.02	0.03
5.58	0.85	0.15	7.21	0.02	0.02	5.60	0.90	0.10	7.20	0.02	0.01
5.62	0.94	0.06	7.19	0.02	0.01	5.64	0.96	0.04	7.18	0.02	0.01
5.66	0.93	0.07	7.17	0.02	0.01	5.68	0.86	0.14	7.16	0.02	0.02
5.70	0.82	0.18	7.15	0.02	0.03	5.72	0.82	0.18	7.14	0.02	0.03
5.74	0.85	0.15	7.13	0.02	0.02	5.76	0.88	0.12	7.12	0.02	0.02

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
5.78	0.92	0.08	7.11	0.02	0.01	5.80	0.95	0.05	7.10	0.02	0.01
5.82	0.96	0.04	7.09	0.02	0.01	5.84	0.96	0.04	7.08	0.02	0.01
5.86	0.98	0.02	7.07	0.02	0.00	5.88	1.03	0.00	7.06	0.02	0.00
5.90	1.10	0.00	7.05	0.02	0.00	5.92	1.15	0.00	7.04	0.02	0.00
5.94	1.19	0.00	7.03	0.02	0.00	5.96	1.24	0.00	7.02	0.02	0.00
5.98	1.27	0.00	7.01	0.02	0.00	6.00	1.26	0.00	7.00	0.02	0.00
6.02	1.23	0.00	6.99	0.02	0.00	6.04	1.20	0.00	6.98	0.02	0.00
6.06	1.18	0.00	6.97	0.02	0.00	6.08	1.16	0.00	6.96	0.02	0.00
6.10	1.14	0.00	6.95	0.02	0.00	6.12	1.11	0.00	6.94	0.02	0.00
6.14	1.09	0.00	6.93	0.02	0.00	6.16	1.07	0.00	6.92	0.02	0.00
6.18	1.07	0.00	6.91	0.02	0.00	6.20	1.07	0.00	6.90	0.02	0.00
6.22	1.07	0.00	6.89	0.02	0.00	6.24	1.07	0.00	6.88	0.02	0.00
6.26	1.08	0.00	6.87	0.02	0.00	6.28	1.09	0.00	6.86	0.02	0.00
6.30	1.08	0.00	6.85	0.02	0.00	6.32	1.09	0.00	6.84	0.02	0.00
6.34	1.09	0.00	6.83	0.02	0.00	6.36	1.10	0.00	6.82	0.02	0.00
6.38	1.10	0.00	6.81	0.02	0.00	6.40	1.12	0.00	6.80	0.02	0.00
6.42	1.16	0.00	6.79	0.02	0.00	6.44	1.22	0.00	6.78	0.02	0.00
6.46	1.28	0.00	6.77	0.02	0.00	6.48	1.29	0.00	6.76	0.02	0.00
6.50	1.28	0.00	6.75	0.02	0.00	6.52	1.26	0.00	6.74	0.02	0.00
6.54	1.23	0.00	6.73	0.02	0.00	6.56	1.19	0.00	6.72	0.02	0.00
6.58	1.13	0.00	6.71	0.02	0.00	6.60	1.09	0.00	6.70	0.02	0.00
6.62	1.06	0.00	6.69	0.02	0.00	6.64	1.06	0.00	6.68	0.02	0.00
6.66	1.07	0.00	6.67	0.02	0.00	6.68	1.08	0.00	6.66	0.02	0.00
6.70	1.09	0.00	6.65	0.02	0.00	6.72	1.09	0.00	6.64	0.02	0.00
6.74	1.06	0.00	6.63	0.02	0.00	6.76	1.02	0.00	6.62	0.02	0.00
6.78	0.99	0.01	6.61	0.02	0.00	6.80	0.99	0.01	6.60	0.02	0.00
6.82	1.00	0.00	6.59	0.02	0.00	6.84	1.01	0.00	6.58	0.02	0.00
6.86	1.01	0.00	6.57	0.02	0.00	6.88	1.02	0.00	6.56	0.02	0.00
6.90	1.01	0.00	6.55	0.02	0.00	6.92	0.99	0.01	6.54	0.02	0.00
6.94	0.98	0.02	6.53	0.02	0.00	6.96	1.00	0.00	6.52	0.02	0.00
6.98	1.02	0.00	6.51	0.02	0.00	7.00	1.05	0.00	6.50	0.02	0.00
7.02	1.08	0.00	6.49	0.02	0.00	7.04	1.10	0.00	6.48	0.02	0.00
7.06	1.13	0.00	6.47	0.02	0.00	7.08	1.16	0.00	6.46	0.02	0.00
7.10	1.19	0.00	6.45	0.02	0.00	7.12	1.21	0.00	6.44	0.02	0.00
7.14	1.21	0.00	6.43	0.02	0.00	7.16	1.21	0.00	6.42	0.02	0.00
7.18	1.21	0.00	6.41	0.02	0.00	7.20	1.21	0.00	6.40	0.02	0.00
7.22	1.22	0.00	6.39	0.02	0.00	7.24	1.25	0.00	6.38	0.02	0.00
7.26	1.28	0.00	6.37	0.02	0.00	7.28	1.30	0.00	6.36	0.02	0.00
7.30	1.32	0.00	6.35	0.02	0.00	7.32	1.34	0.00	6.34	0.02	0.00
7.34	1.36	0.00	6.33	0.02	0.00	7.36	1.38	0.00	6.32	0.02	0.00
7.38	1.42	0.00	6.31	0.02	0.00	7.40	1.46	0.00	6.30	0.02	0.00
7.42	1.49	0.00	6.29	0.02	0.00	7.44	1.51	0.00	6.28	0.02	0.00
7.46	1.50	0.00	6.27	0.02	0.00	7.48	1.47	0.00	6.26	0.02	0.00
7.50	1.42	0.00	6.25	0.02	0.00	7.52	1.36	0.00	6.24	0.02	0.00
7.54	1.30	0.00	6.23	0.02	0.00	7.56	1.24	0.00	6.22	0.02	0.00
7.58	1.19	0.00	6.21	0.02	0.00	7.60	1.16	0.00	6.20	0.02	0.00
7.62	1.13	0.00	6.19	0.02	0.00	7.64	1.11	0.00	6.18	0.02	0.00
7.66	1.09	0.00	6.17	0.02	0.00	7.68	1.07	0.00	6.16	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
7.70	1.07	0.00	6.15	0.02	0.00	7.72	1.06	0.00	6.14	0.02	0.00
7.74	1.06	0.00	6.13	0.02	0.00	7.76	1.05	0.00	6.12	0.02	0.00
7.78	1.06	0.00	6.11	0.02	0.00	7.80	1.06	0.00	6.10	0.02	0.00
7.82	1.07	0.00	6.09	0.02	0.00	7.84	1.07	0.00	6.08	0.02	0.00
7.86	1.07	0.00	6.07	0.02	0.00	7.88	1.08	0.00	6.06	0.02	0.00
7.90	1.08	0.00	6.05	0.02	0.00	7.92	1.09	0.00	6.04	0.02	0.00
7.94	1.10	0.00	6.03	0.02	0.00	7.96	1.11	0.00	6.02	0.02	0.00
7.98	1.13	0.00	6.01	0.02	0.00	8.00	1.15	0.00	6.00	0.02	0.00
8.02	1.18	0.00	5.99	0.02	0.00	8.04	1.22	0.00	5.98	0.02	0.00
8.06	1.29	0.00	5.97	0.02	0.00	8.08	1.22	0.00	5.96	0.02	0.00
8.10	1.27	0.00	5.95	0.02	0.00	8.12	1.27	0.00	5.94	0.02	0.00
8.14	1.24	0.00	5.93	0.02	0.00	8.16	1.21	0.00	5.92	0.02	0.00
8.18	1.18	0.00	5.91	0.02	0.00	8.20	1.15	0.00	5.90	0.02	0.00
8.22	1.12	0.00	5.89	0.02	0.00	8.24	1.11	0.00	5.88	0.02	0.00
8.26	1.10	0.00	5.87	0.02	0.00	8.28	1.23	0.00	5.86	0.02	0.00
8.30	1.20	0.00	5.85	0.02	0.00	8.32	1.18	0.00	5.84	0.02	0.00
8.34	1.17	0.00	5.83	0.02	0.00	8.36	1.06	0.00	5.82	0.02	0.00
8.38	1.15	0.00	5.81	0.02	0.00	8.40	1.27	0.00	5.80	0.02	0.00
8.42	1.36	0.00	5.79	0.02	0.00	8.44	1.36	0.00	5.78	0.02	0.00
8.46	1.43	0.00	5.77	0.02	0.00	8.48	1.36	0.00	5.76	0.02	0.00
8.50	1.28	0.00	5.75	0.02	0.00	8.52	1.23	0.00	5.74	0.02	0.00
8.54	1.21	0.00	5.73	0.02	0.00	8.56	1.19	0.00	5.72	0.02	0.00
8.58	1.19	0.00	5.71	0.02	0.00	8.60	1.21	0.00	5.70	0.02	0.00
8.62	1.27	0.00	5.69	0.02	0.00	8.64	1.25	0.00	5.68	0.02	0.00
8.66	1.39	0.00	5.67	0.02	0.00	8.68	1.43	0.00	5.66	0.02	0.00
8.70	1.36	0.00	5.65	0.02	0.00	8.72	1.23	0.00	5.64	0.02	0.00
8.74	1.28	0.00	5.63	0.02	0.00	8.76	1.19	0.00	5.62	0.02	0.00
8.78	1.10	0.00	5.61	0.02	0.00	8.80	1.02	0.00	5.60	0.02	0.00
8.82	0.95	0.05	5.59	0.02	0.01	8.84	0.78	0.22	5.58	0.02	0.02
8.86	0.76	0.24	5.57	0.02	0.03	8.88	0.75	0.25	5.56	0.02	0.03
8.90	0.75	0.25	5.55	0.02	0.03	8.92	0.75	0.25	5.54	0.02	0.03
8.94	0.74	0.26	5.53	0.02	0.03	8.96	0.72	0.28	5.52	0.02	0.03
8.98	0.70	0.30	5.51	0.02	0.03	9.00	0.81	0.19	5.50	0.02	0.02
9.02	0.85	0.15	5.49	0.02	0.02	9.04	0.92	0.08	5.48	0.02	0.01
9.06	0.98	0.02	5.47	0.02	0.00	9.08	2.00	0.00	5.46	0.02	0.00
9.10	2.00	0.00	5.45	0.02	0.00	9.12	2.00	0.00	5.44	0.02	0.00
9.14	2.00	0.00	5.43	0.02	0.00	9.16	2.00	0.00	5.42	0.02	0.00
9.18	2.00	0.00	5.41	0.02	0.00	9.20	2.00	0.00	5.40	0.02	0.00
9.22	2.00	0.00	5.39	0.02	0.00	9.24	2.00	0.00	5.38	0.02	0.00
9.26	2.00	0.00	5.37	0.02	0.00	9.28	2.00	0.00	5.36	0.02	0.00
9.30	2.00	0.00	5.35	0.02	0.00	9.32	2.00	0.00	5.34	0.02	0.00
9.34	2.00	0.00	5.33	0.02	0.00	9.36	2.00	0.00	5.32	0.02	0.00
9.38	2.00	0.00	5.31	0.02	0.00	9.40	2.00	0.00	5.30	0.02	0.00
9.42	2.00	0.00	5.29	0.02	0.00	9.44	2.00	0.00	5.28	0.02	0.00
9.46	2.00	0.00	5.27	0.02	0.00	9.48	2.00	0.00	5.26	0.02	0.00
9.50	2.00	0.00	5.25	0.02	0.00	9.52	2.00	0.00	5.24	0.02	0.00
9.54	2.00	0.00	5.23	0.02	0.00	9.56	2.00	0.00	5.22	0.02	0.00
9.58	2.00	0.00	5.21	0.02	0.00	9.60	2.00	0.00	5.20	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
9.62	2.00	0.00	5.19	0.02	0.00	9.64	2.00	0.00	5.18	0.02	0.00
9.66	2.00	0.00	5.17	0.02	0.00	9.68	2.00	0.00	5.16	0.02	0.00
9.70	2.00	0.00	5.15	0.02	0.00	9.72	2.00	0.00	5.14	0.02	0.00
9.74	2.00	0.00	5.13	0.02	0.00	9.76	2.00	0.00	5.12	0.02	0.00
9.78	2.00	0.00	5.11	0.02	0.00	9.80	2.00	0.00	5.10	0.02	0.00
9.82	2.00	0.00	5.09	0.02	0.00	9.84	2.00	0.00	5.08	0.02	0.00
9.86	2.00	0.00	5.07	0.02	0.00	9.88	2.00	0.00	5.06	0.02	0.00
9.90	2.00	0.00	5.05	0.02	0.00	9.92	2.00	0.00	5.04	0.02	0.00
9.94	2.00	0.00	5.03	0.02	0.00	9.96	2.00	0.00	5.02	0.02	0.00
9.98	2.00	0.00	5.01	0.02	0.00	10.00	2.00	0.00	5.00	0.02	0.00
10.02	2.00	0.00	4.99	0.02	0.00	10.04	2.00	0.00	4.98	0.02	0.00
10.06	2.00	0.00	4.97	0.02	0.00	10.08	2.00	0.00	4.96	0.02	0.00
10.10	2.00	0.00	4.95	0.02	0.00	10.12	2.00	0.00	4.94	0.02	0.00
10.14	0.86	0.14	4.93	0.02	0.01	10.16	0.91	0.09	4.92	0.02	0.01
10.18	0.96	0.04	4.91	0.02	0.00	10.20	0.97	0.03	4.90	0.02	0.00
10.22	0.98	0.02	4.89	0.02	0.00	10.24	0.99	0.01	4.88	0.02	0.00
10.26	0.99	0.01	4.87	0.02	0.00	10.28	0.95	0.05	4.86	0.02	0.00
10.30	0.91	0.09	4.85	0.02	0.01	10.32	0.89	0.11	4.84	0.02	0.01
10.34	0.87	0.13	4.83	0.02	0.01	10.36	0.89	0.11	4.82	0.02	0.01
10.38	0.93	0.07	4.81	0.02	0.01	10.40	0.98	0.02	4.80	0.02	0.00
10.42	1.00	0.00	4.79	0.02	0.00	10.44	1.00	0.00	4.78	0.02	0.00
10.46	1.01	0.00	4.77	0.02	0.00	10.48	1.04	0.00	4.76	0.02	0.00
10.50	1.11	0.00	4.75	0.02	0.00	10.52	1.16	0.00	4.74	0.02	0.00
10.54	1.14	0.00	4.73	0.02	0.00	10.56	1.07	0.00	4.72	0.02	0.00
10.58	1.01	0.00	4.71	0.02	0.00	10.60	0.99	0.01	4.70	0.02	0.00
10.62	0.99	0.01	4.69	0.02	0.00	10.64	1.01	0.00	4.68	0.02	0.00
10.66	1.03	0.00	4.67	0.02	0.00	10.68	1.06	0.00	4.66	0.02	0.00
10.70	1.11	0.00	4.65	0.02	0.00	10.72	1.17	0.00	4.64	0.02	0.00
10.74	1.22	0.00	4.63	0.02	0.00	10.76	1.30	0.00	4.62	0.02	0.00
10.78	2.00	0.00	4.61	0.02	0.00	10.80	2.00	0.00	4.60	0.02	0.00
10.82	2.00	0.00	4.59	0.02	0.00	10.84	2.00	0.00	4.58	0.02	0.00
10.86	2.00	0.00	4.57	0.02	0.00	10.88	2.00	0.00	4.56	0.02	0.00
10.90	0.97	0.03	4.55	0.02	0.00	10.92	0.95	0.05	4.54	0.02	0.00
10.94	0.95	0.05	4.53	0.02	0.00	10.96	0.98	0.02	4.52	0.02	0.00
10.98	0.99	0.01	4.51	0.02	0.00	11.00	0.95	0.05	4.50	0.02	0.00
11.02	0.94	0.06	4.49	0.02	0.01	11.04	0.98	0.02	4.48	0.02	0.00
11.06	1.03	0.00	4.47	0.02	0.00	11.08	1.09	0.00	4.46	0.02	0.00
11.10	1.14	0.00	4.45	0.02	0.00	11.12	2.00	0.00	4.44	0.02	0.00
11.14	2.00	0.00	4.43	0.02	0.00	11.16	2.00	0.00	4.42	0.02	0.00
11.18	2.00	0.00	4.41	0.02	0.00	11.20	2.00	0.00	4.40	0.02	0.00
11.22	2.00	0.00	4.39	0.02	0.00	11.24	2.00	0.00	4.38	0.02	0.00
11.26	2.00	0.00	4.37	0.02	0.00	11.28	2.00	0.00	4.36	0.02	0.00
11.30	2.00	0.00	4.35	0.02	0.00	11.32	2.00	0.00	4.34	0.02	0.00
11.34	2.00	0.00	4.33	0.02	0.00	11.36	2.00	0.00	4.32	0.02	0.00
11.38	2.00	0.00	4.31	0.02	0.00	11.40	2.00	0.00	4.30	0.02	0.00
11.42	2.00	0.00	4.29	0.02	0.00	11.44	2.00	0.00	4.28	0.02	0.00
11.46	2.00	0.00	4.27	0.02	0.00	11.48	2.00	0.00	4.26	0.02	0.00
11.50	2.00	0.00	4.25	0.02	0.00	11.52	2.00	0.00	4.24	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
11.54	2.00	0.00	4.23	0.02	0.00	11.56	2.00	0.00	4.22	0.02	0.00
11.58	2.00	0.00	4.21	0.02	0.00	11.60	2.00	0.00	4.20	0.02	0.00
11.62	2.00	0.00	4.19	0.02	0.00	11.64	2.00	0.00	4.18	0.02	0.00
11.66	2.00	0.00	4.17	0.02	0.00	11.68	2.00	0.00	4.16	0.02	0.00
11.70	2.00	0.00	4.15	0.02	0.00	11.72	2.00	0.00	4.14	0.02	0.00
11.74	2.00	0.00	4.13	0.02	0.00	11.76	2.00	0.00	4.12	0.02	0.00
11.78	2.00	0.00	4.11	0.02	0.00	11.80	2.00	0.00	4.10	0.02	0.00
11.82	2.00	0.00	4.09	0.02	0.00	11.84	2.00	0.00	4.08	0.02	0.00
11.86	2.00	0.00	4.07	0.02	0.00	11.88	2.00	0.00	4.06	0.02	0.00
11.90	2.00	0.00	4.05	0.02	0.00	11.92	2.00	0.00	4.04	0.02	0.00
11.94	0.94	0.06	4.03	0.02	0.00	11.96	0.97	0.03	4.02	0.02	0.00
11.98	2.00	0.00	4.01	0.02	0.00	12.00	2.00	0.00	4.00	0.02	0.00
12.02	2.00	0.00	3.99	0.02	0.00	12.04	2.00	0.00	3.98	0.02	0.00
12.06	2.00	0.00	3.97	0.02	0.00	12.08	2.00	0.00	3.96	0.02	0.00
12.10	2.00	0.00	3.95	0.02	0.00	12.12	2.00	0.00	3.94	0.02	0.00
12.14	2.00	0.00	3.93	0.02	0.00	12.16	2.00	0.00	3.92	0.02	0.00
12.18	2.00	0.00	3.91	0.02	0.00	12.20	2.00	0.00	3.90	0.02	0.00
12.22	2.00	0.00	3.89	0.02	0.00	12.24	2.00	0.00	3.88	0.02	0.00
12.26	2.00	0.00	3.87	0.02	0.00	12.28	2.00	0.00	3.86	0.02	0.00
12.30	2.00	0.00	3.85	0.02	0.00	12.32	2.00	0.00	3.84	0.02	0.00
12.34	2.00	0.00	3.83	0.02	0.00	12.36	2.00	0.00	3.82	0.02	0.00
12.38	2.00	0.00	3.81	0.02	0.00	12.40	2.00	0.00	3.80	0.02	0.00
12.42	2.00	0.00	3.79	0.02	0.00	12.44	2.00	0.00	3.78	0.02	0.00
12.46	2.00	0.00	3.77	0.02	0.00	12.48	2.00	0.00	3.76	0.02	0.00
12.50	2.00	0.00	3.75	0.02	0.00	12.52	2.00	0.00	3.74	0.02	0.00
12.54	2.00	0.00	3.73	0.02	0.00	12.56	2.00	0.00	3.72	0.02	0.00
12.58	2.00	0.00	3.71	0.02	0.00	12.60	2.00	0.00	3.70	0.02	0.00
12.62	2.00	0.00	3.69	0.02	0.00	12.64	2.00	0.00	3.68	0.02	0.00
12.66	2.00	0.00	3.67	0.02	0.00	12.68	2.00	0.00	3.66	0.02	0.00
12.70	2.00	0.00	3.65	0.02	0.00	12.72	2.00	0.00	3.64	0.02	0.00
12.74	2.00	0.00	3.63	0.02	0.00	12.76	2.00	0.00	3.62	0.02	0.00
12.78	2.00	0.00	3.61	0.02	0.00	12.80	2.00	0.00	3.60	0.02	0.00
12.82	2.00	0.00	3.59	0.02	0.00	12.84	2.00	0.00	3.58	0.02	0.00
12.86	2.00	0.00	3.57	0.02	0.00	12.88	2.00	0.00	3.56	0.02	0.00
12.90	2.00	0.00	3.55	0.02	0.00	12.92	2.00	0.00	3.54	0.02	0.00
12.94	2.00	0.00	3.53	0.02	0.00	12.96	2.00	0.00	3.52	0.02	0.00
12.98	2.00	0.00	3.51	0.02	0.00	13.00	2.00	0.00	3.50	0.02	0.00
13.02	2.00	0.00	3.49	0.02	0.00	13.04	2.00	0.00	3.48	0.02	0.00
13.06	2.00	0.00	3.47	0.02	0.00	13.08	0.93	0.07	3.46	0.02	0.00
13.10	0.97	0.03	3.45	0.02	0.00	13.12	0.99	0.01	3.44	0.02	0.00
13.14	1.01	0.00	3.43	0.02	0.00	13.16	1.00	0.00	3.42	0.02	0.00
13.18	0.99	0.01	3.41	0.02	0.00	13.20	0.99	0.01	3.40	0.02	0.00
13.22	1.03	0.00	3.39	0.02	0.00	13.24	1.12	0.00	3.38	0.02	0.00
13.26	1.24	0.00	3.37	0.02	0.00	13.28	1.32	0.00	3.36	0.02	0.00
13.30	1.34	0.00	3.35	0.02	0.00	13.32	1.33	0.00	3.34	0.02	0.00
13.34	1.30	0.00	3.33	0.02	0.00	13.36	1.29	0.00	3.32	0.02	0.00
13.38	1.31	0.00	3.31	0.02	0.00	13.40	1.41	0.00	3.30	0.02	0.00
13.42	1.49	0.00	3.29	0.02	0.00	13.44	1.48	0.00	3.28	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
13.46	1.39	0.00	3.27	0.02	0.00	13.48	2.00	0.00	3.26	0.02	0.00
13.50	1.17	0.00	3.25	0.02	0.00	13.52	1.06	0.00	3.24	0.02	0.00
13.54	1.14	0.00	3.23	0.02	0.00	13.56	1.33	0.00	3.22	0.02	0.00
13.58	1.46	0.00	3.21	0.02	0.00	13.60	1.46	0.00	3.20	0.02	0.00
13.62	1.39	0.00	3.19	0.02	0.00	13.64	1.32	0.00	3.18	0.02	0.00
13.66	1.25	0.00	3.17	0.02	0.00	13.68	1.20	0.00	3.16	0.02	0.00
13.70	1.15	0.00	3.15	0.02	0.00	13.72	1.11	0.00	3.14	0.02	0.00
13.74	1.10	0.00	3.13	0.02	0.00	13.76	1.08	0.00	3.12	0.02	0.00
13.78	1.07	0.00	3.11	0.02	0.00	13.80	1.07	0.00	3.10	0.02	0.00
13.82	1.08	0.00	3.09	0.02	0.00	13.84	1.12	0.00	3.08	0.02	0.00
13.86	1.14	0.00	3.07	0.02	0.00	13.88	1.19	0.00	3.06	0.02	0.00
13.90	1.18	0.00	3.05	0.02	0.00	13.92	1.18	0.00	3.04	0.02	0.00
13.94	1.14	0.00	3.03	0.02	0.00	13.96	1.17	0.00	3.02	0.02	0.00
13.98	1.18	0.00	3.01	0.02	0.00	14.00	1.19	0.00	3.00	0.02	0.00
14.02	1.18	0.00	2.99	0.02	0.00	14.04	1.17	0.00	2.98	0.02	0.00
14.06	1.16	0.00	2.97	0.02	0.00	14.08	1.18	0.00	2.96	0.02	0.00
14.10	1.24	0.00	2.95	0.02	0.00	14.12	1.34	0.00	2.94	0.02	0.00
14.14	1.42	0.00	2.93	0.02	0.00	14.16	1.39	0.00	2.92	0.02	0.00
14.18	1.32	0.00	2.91	0.02	0.00	14.20	1.22	0.00	2.90	0.02	0.00
14.22	1.16	0.00	2.89	0.02	0.00	14.24	1.17	0.00	2.88	0.02	0.00
14.26	1.29	0.00	2.87	0.02	0.00	14.28	1.47	0.00	2.86	0.02	0.00
14.30	1.58	0.00	2.85	0.02	0.00	14.32	1.60	0.00	2.84	0.02	0.00
14.34	1.54	0.00	2.83	0.02	0.00	14.36	1.47	0.00	2.82	0.02	0.00
14.38	1.43	0.00	2.81	0.02	0.00	14.40	1.41	0.00	2.80	0.02	0.00
14.42	1.39	0.00	2.79	0.02	0.00	14.44	1.37	0.00	2.78	0.02	0.00
14.46	1.38	0.00	2.77	0.02	0.00	14.48	1.44	0.00	2.76	0.02	0.00
14.50	1.51	0.00	2.75	0.02	0.00	14.52	1.52	0.00	2.74	0.02	0.00
14.54	1.47	0.00	2.73	0.02	0.00	14.56	1.38	0.00	2.72	0.02	0.00
14.58	1.30	0.00	2.71	0.02	0.00	14.60	1.22	0.00	2.70	0.02	0.00
14.62	1.16	0.00	2.69	0.02	0.00	14.64	1.11	0.00	2.68	0.02	0.00
14.66	1.10	0.00	2.67	0.02	0.00	14.68	1.09	0.00	2.66	0.02	0.00
14.70	1.07	0.00	2.65	0.02	0.00	14.72	1.04	0.00	2.64	0.02	0.00
14.74	1.04	0.00	2.63	0.02	0.00	14.76	1.08	0.00	2.62	0.02	0.00
14.78	1.14	0.00	2.61	0.02	0.00	14.80	1.17	0.00	2.60	0.02	0.00
14.82	1.16	0.00	2.59	0.02	0.00	14.84	1.13	0.00	2.58	0.02	0.00
14.86	1.09	0.00	2.57	0.02	0.00	14.88	1.10	0.00	2.56	0.02	0.00
14.90	1.20	0.00	2.55	0.02	0.00	14.92	1.40	0.00	2.54	0.02	0.00
14.94	1.58	0.00	2.53	0.02	0.00	14.96	1.73	0.00	2.52	0.02	0.00
14.98	1.85	0.00	2.51	0.02	0.00	15.00	1.94	0.00	2.50	0.02	0.00
15.02	1.97	0.00	2.49	0.02	0.00	15.04	1.96	0.00	2.48	0.02	0.00
15.06	1.89	0.00	2.47	0.02	0.00	15.08	1.77	0.00	2.46	0.02	0.00
15.10	1.67	0.00	2.45	0.02	0.00	15.12	1.61	0.00	2.44	0.02	0.00
15.14	1.62	0.00	2.43	0.02	0.00	15.16	1.65	0.00	2.42	0.02	0.00
15.18	1.72	0.00	2.41	0.02	0.00	15.20	1.81	0.00	2.40	0.02	0.00
15.22	1.87	0.00	2.39	0.02	0.00	15.24	1.81	0.00	2.38	0.02	0.00
15.26	1.65	0.00	2.37	0.02	0.00	15.28	2.00	0.00	2.36	0.02	0.00
15.30	1.34	0.00	2.35	0.02	0.00	15.32	1.19	0.00	2.34	0.02	0.00
15.34	1.14	0.00	2.33	0.02	0.00	15.36	1.24	0.00	2.32	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
15.38	1.38	0.00	2.31	0.02	0.00	15.40	1.47	0.00	2.30	0.02	0.00
15.42	1.49	0.00	2.29	0.02	0.00	15.44	1.50	0.00	2.28	0.02	0.00
15.46	1.52	0.00	2.27	0.02	0.00	15.48	1.57	0.00	2.26	0.02	0.00
15.50	1.62	0.00	2.25	0.02	0.00	15.52	1.64	0.00	2.24	0.02	0.00
15.54	1.59	0.00	2.23	0.02	0.00	15.56	1.48	0.00	2.22	0.02	0.00
15.58	1.39	0.00	2.21	0.02	0.00	15.60	1.34	0.00	2.20	0.02	0.00
15.62	1.32	0.00	2.19	0.02	0.00	15.64	1.30	0.00	2.18	0.02	0.00
15.66	1.27	0.00	2.17	0.02	0.00	15.68	1.20	0.00	2.16	0.02	0.00
15.70	1.13	0.00	2.15	0.02	0.00	15.72	1.07	0.00	2.14	0.02	0.00
15.74	1.04	0.00	2.13	0.02	0.00	15.76	1.00	0.00	2.12	0.02	0.00
15.78	0.97	0.03	2.11	0.02	0.00	15.80	0.94	0.06	2.10	0.02	0.00
15.82	0.91	0.09	2.09	0.02	0.00	15.84	0.90	0.10	2.08	0.02	0.00
15.86	0.90	0.10	2.07	0.02	0.00	15.88	0.91	0.09	2.06	0.02	0.00
15.90	0.92	0.08	2.05	0.02	0.00	15.92	0.91	0.09	2.04	0.02	0.00
15.94	0.92	0.08	2.03	0.02	0.00	15.96	0.96	0.04	2.02	0.02	0.00
15.98	1.00	0.00	2.01	0.02	0.00	16.00	1.01	0.00	2.00	0.02	0.00
16.02	0.98	0.02	1.99	0.02	0.00	16.04	0.97	0.03	1.98	0.02	0.00
16.06	0.99	0.01	1.97	0.02	0.00	16.08	1.01	0.00	1.96	0.02	0.00
16.10	1.04	0.00	1.95	0.02	0.00	16.12	2.00	0.00	1.94	0.02	0.00
16.14	2.00	0.00	1.93	0.02	0.00	16.16	2.00	0.00	1.92	0.02	0.00
16.18	2.00	0.00	1.91	0.02	0.00	16.20	2.00	0.00	1.90	0.02	0.00
16.22	2.00	0.00	1.89	0.02	0.00	16.24	2.00	0.00	1.88	0.02	0.00
16.26	2.00	0.00	1.87	0.02	0.00	16.28	1.13	0.00	1.86	0.02	0.00
16.30	1.16	0.00	1.85	0.02	0.00	16.32	1.12	0.00	1.84	0.02	0.00
16.34	2.00	0.00	1.83	0.02	0.00	16.36	2.00	0.00	1.82	0.02	0.00
16.38	0.98	0.02	1.81	0.02	0.00	16.40	0.95	0.05	1.80	0.02	0.00
16.42	0.95	0.05	1.79	0.02	0.00	16.44	0.96	0.04	1.78	0.02	0.00
16.46	0.96	0.04	1.77	0.02	0.00	16.48	0.96	0.04	1.76	0.02	0.00
16.50	0.96	0.04	1.75	0.02	0.00	16.52	0.97	0.03	1.74	0.02	0.00
16.54	0.96	0.04	1.73	0.02	0.00	16.56	0.96	0.04	1.72	0.02	0.00
16.58	0.95	0.05	1.71	0.02	0.00	16.60	0.94	0.06	1.70	0.02	0.00
16.62	0.94	0.06	1.69	0.02	0.00	16.64	0.96	0.04	1.68	0.02	0.00
16.66	0.99	0.01	1.67	0.02	0.00	16.68	1.02	0.00	1.66	0.02	0.00
16.70	1.02	0.00	1.65	0.02	0.00	16.72	1.01	0.00	1.64	0.02	0.00
16.74	1.02	0.00	1.63	0.02	0.00	16.76	1.09	0.00	1.62	0.02	0.00
16.78	1.21	0.00	1.61	0.02	0.00	16.80	1.33	0.00	1.60	0.02	0.00
16.82	1.42	0.00	1.59	0.02	0.00	16.84	1.49	0.00	1.58	0.02	0.00
16.86	1.50	0.00	1.57	0.02	0.00	16.88	2.00	0.00	1.56	0.02	0.00
16.90	2.00	0.00	1.55	0.02	0.00	16.92	2.00	0.00	1.54	0.02	0.00
16.94	2.00	0.00	1.53	0.02	0.00	16.96	2.00	0.00	1.52	0.02	0.00
16.98	2.00	0.00	1.51	0.02	0.00	17.00	2.00	0.00	1.50	0.02	0.00
17.02	2.00	0.00	1.49	0.02	0.00	17.04	2.00	0.00	1.48	0.02	0.00
17.06	2.00	0.00	1.47	0.02	0.00	17.08	2.00	0.00	1.46	0.02	0.00
17.10	2.00	0.00	1.45	0.02	0.00	17.12	2.00	0.00	1.44	0.02	0.00
17.14	2.00	0.00	1.43	0.02	0.00	17.16	2.00	0.00	1.42	0.02	0.00
17.18	2.00	0.00	1.41	0.02	0.00	17.20	2.00	0.00	1.40	0.02	0.00
17.22	2.00	0.00	1.39	0.02	0.00	17.24	2.00	0.00	1.38	0.02	0.00
17.26	2.00	0.00	1.37	0.02	0.00	17.28	2.00	0.00	1.36	0.02	0.00



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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
17.30	2.00	0.00	1.35	0.02	0.00	17.32	2.00	0.00	1.34	0.02	0.00
17.34	2.00	0.00	1.33	0.02	0.00	17.36	2.00	0.00	1.32	0.02	0.00
17.38	2.00	0.00	1.31	0.02	0.00	17.40	2.00	0.00	1.30	0.02	0.00
17.42	2.00	0.00	1.29	0.02	0.00	17.44	2.00	0.00	1.28	0.02	0.00
17.46	2.00	0.00	1.27	0.02	0.00	17.48	2.00	0.00	1.26	0.02	0.00
17.50	2.00	0.00	1.25	0.02	0.00	17.52	2.00	0.00	1.24	0.02	0.00
17.54	2.00	0.00	1.23	0.02	0.00	17.56	2.00	0.00	1.22	0.02	0.00
17.58	2.00	0.00	1.21	0.02	0.00	17.60	2.00	0.00	1.20	0.02	0.00
17.62	2.00	0.00	1.19	0.02	0.00	17.64	2.00	0.00	1.18	0.02	0.00
17.66	2.00	0.00	1.17	0.02	0.00	17.68	2.00	0.00	1.16	0.02	0.00
17.70	2.00	0.00	1.15	0.02	0.00	17.72	2.00	0.00	1.14	0.02	0.00
17.74	2.00	0.00	1.13	0.02	0.00	17.76	2.00	0.00	1.12	0.02	0.00
17.78	2.00	0.00	1.11	0.02	0.00	17.80	2.00	0.00	1.10	0.02	0.00
17.82	2.00	0.00	1.09	0.02	0.00	17.84	2.00	0.00	1.08	0.02	0.00
17.86	2.00	0.00	1.07	0.02	0.00	17.88	2.00	0.00	1.06	0.02	0.00
17.90	2.00	0.00	1.05	0.02	0.00	17.92	2.00	0.00	1.04	0.02	0.00
17.94	2.00	0.00	1.03	0.02	0.00	17.96	2.00	0.00	1.02	0.02	0.00
17.98	2.00	0.00	1.01	0.02	0.00	18.00	2.00	0.00	1.00	0.02	0.00
18.02	2.00	0.00	0.99	0.02	0.00	18.04	2.00	0.00	0.98	0.02	0.00
18.06	2.00	0.00	0.97	0.02	0.00	18.08	2.00	0.00	0.96	0.02	0.00
18.10	2.00	0.00	0.95	0.02	0.00	18.12	2.00	0.00	0.94	0.02	0.00
18.14	2.00	0.00	0.93	0.02	0.00	18.16	2.00	0.00	0.92	0.02	0.00
18.18	2.00	0.00	0.91	0.02	0.00	18.20	2.00	0.00	0.90	0.02	0.00
18.22	2.00	0.00	0.89	0.02	0.00	18.24	2.00	0.00	0.88	0.02	0.00
18.26	2.00	0.00	0.87	0.02	0.00	18.28	2.00	0.00	0.86	0.02	0.00
18.30	2.00	0.00	0.85	0.02	0.00	18.32	2.00	0.00	0.84	0.02	0.00
18.34	2.00	0.00	0.83	0.02	0.00	18.36	2.00	0.00	0.82	0.02	0.00
18.38	2.00	0.00	0.81	0.02	0.00	18.40	2.00	0.00	0.80	0.02	0.00
18.42	2.00	0.00	0.79	0.02	0.00	18.44	2.00	0.00	0.78	0.02	0.00
18.46	2.00	0.00	0.77	0.02	0.00	18.48	2.00	0.00	0.76	0.02	0.00
18.50	2.00	0.00	0.75	0.02	0.00	18.52	2.00	0.00	0.74	0.02	0.00
18.54	2.00	0.00	0.73	0.02	0.00	18.56	2.00	0.00	0.72	0.02	0.00
18.58	2.00	0.00	0.71	0.02	0.00	18.60	1.05	0.00	0.70	0.02	0.00
18.62	1.12	0.00	0.69	0.02	0.00	18.64	1.15	0.00	0.68	0.02	0.00
18.66	1.14	0.00	0.67	0.02	0.00	18.68	1.11	0.00	0.66	0.02	0.00
18.70	1.10	0.00	0.65	0.02	0.00	18.72	1.14	0.00	0.64	0.02	0.00
18.74	1.21	0.00	0.63	0.02	0.00	18.76	1.23	0.00	0.62	0.02	0.00
18.78	1.23	0.00	0.61	0.02	0.00	18.80	1.26	0.00	0.60	0.02	0.00
18.82	1.30	0.00	0.59	0.02	0.00	18.84	1.33	0.00	0.58	0.02	0.00
18.86	1.34	0.00	0.57	0.02	0.00	18.88	2.00	0.00	0.56	0.02	0.00
18.90	2.00	0.00	0.55	0.02	0.00	18.92	2.00	0.00	0.54	0.02	0.00
18.94	2.00	0.00	0.53	0.02	0.00	18.96	2.00	0.00	0.52	0.02	0.00
18.98	2.00	0.00	0.51	0.02	0.00	19.00	2.00	0.00	0.50	0.02	0.00
19.02	2.00	0.00	0.49	0.02	0.00	19.04	2.00	0.00	0.48	0.02	0.00
19.06	2.00	0.00	0.47	0.02	0.00	19.08	2.00	0.00	0.46	0.02	0.00
19.10	2.00	0.00	0.45	0.02	0.00	19.12	2.00	0.00	0.44	0.02	0.00
19.14	2.00	0.00	0.43	0.02	0.00	19.16	2.00	0.00	0.42	0.02	0.00
19.18	2.00	0.00	0.41	0.02	0.00	19.20	2.00	0.00	0.40	0.02	0.00

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

Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI	Depth (m)	FS	F <sub>L</sub>	w <sub>z</sub>	d <sub>z</sub>	LPI
19.22	2.00	0.00	0.39	0.02	0.00	19.24	2.00	0.00	0.38	0.02	0.00
19.26	2.00	0.00	0.37	0.02	0.00	19.28	2.00	0.00	0.36	0.02	0.00
19.30	2.00	0.00	0.35	0.02	0.00	19.32	2.00	0.00	0.34	0.02	0.00
19.34	2.00	0.00	0.33	0.02	0.00	19.36	2.00	0.00	0.32	0.02	0.00
19.38	2.00	0.00	0.31	0.02	0.00	19.40	2.00	0.00	0.30	0.02	0.00
19.42	2.00	0.00	0.29	0.02	0.00	19.44	2.00	0.00	0.28	0.02	0.00
19.46	2.00	0.00	0.27	0.02	0.00	19.48	2.00	0.00	0.26	0.02	0.00
19.50	2.00	0.00	0.25	0.02	0.00	19.52	2.00	0.00	0.24	0.02	0.00
19.54	2.00	0.00	0.23	0.02	0.00	19.56	2.00	0.00	0.22	0.02	0.00
19.58	2.00	0.00	0.21	0.02	0.00	19.60	2.00	0.00	0.20	0.02	0.00
19.62	2.00	0.00	0.19	0.02	0.00	19.64	2.00	0.00	0.18	0.02	0.00
19.66	2.00	0.00	0.17	0.02	0.00	19.68	1.00	0.00	0.16	0.02	0.00
19.70	1.07	0.00	0.15	0.02	0.00	19.72	1.19	0.00	0.14	0.02	0.00
19.74	1.30	0.00	0.13	0.02	0.00	19.76	1.37	0.00	0.12	0.02	0.00
19.78	2.00	0.00	0.11	0.02	0.00	19.80	2.00	0.00	0.10	0.02	0.00
19.82	2.00	0.00	0.09	0.02	0.00	19.84	2.00	0.00	0.08	0.02	0.00
19.86	2.00	0.00	0.07	0.02	0.00	19.88	2.00	0.00	0.06	0.02	0.00
19.90	2.00	0.00	0.05	0.02	0.00						

**Overall liquefaction potential: 2.05**

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<sub>L</sub>: 1 - FS  
 w<sub>z</sub>: Function value of the extend of soil liquefaction according to depth  
 d<sub>z</sub>: Layer thickness (m)  
 LPI: Liquefaction potential index value for test point