PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile

RegioneEmiliaRomagna

CONFERENZA DELLE REGIONI E DELLE PROVINCE AUTONOME

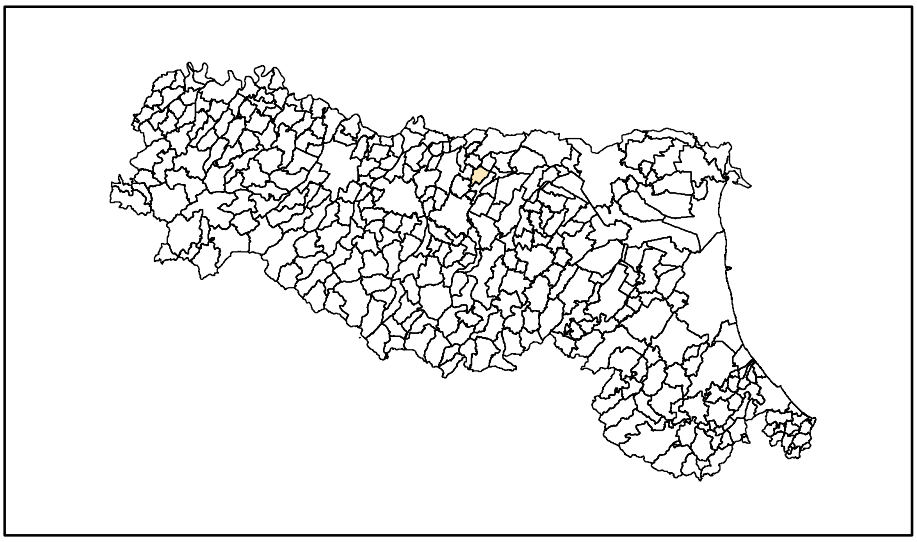
Attuazione dell'articolo 11 della legge 24 giugno 2009, n.77

STUDIO DI MICROZONAZIONE SISMICA – LIVELLO 3

Relazione illustrativa

Regione Emilia-Romagna

Comune di San Prospero



Regione	Soggetto realizzatore	Data
Emilia Romagna	Studio Geologia Tecnica Dott. Geol. Lorenzo Del Maschio Collaboratori Dott. Enrico Notari	Aprile 2021

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COMUNE DI SAN PROSPERO S/S
PROVINCIA DI MODENA

OGGETTO:

STUDIO DI MICROZONAZIONE SISMICA - LIVELLO 3 - DEL COMUNE DI SAN PROSPERO SULLA SECCHIA

-RELAZIONE ILLUSTRATIVA-

APRILE 2021

Dott. Geol Lorenzo Del Maschio

INDICE GENERALE

1. INTRODUZIONE

Nel presente documento vengono descritte le attività svolte e i risultati ottenuti dallo studio di microzonazione sismica di III livello ai fini della valutazione delle condizioni di sicurezza del territorio comunale di San Prospero sulla Secchia, effettuato su incarico (Determinazione n° 307 del 19/12/2019) e finanziato con Ordinanza del Capo del Dipartimento della Protezione Civile n. 532/2018 "Attribuzione contributi a favore degli enti locali - Approvazione dei criteri per gli studi di microzonazione sismica e delle indicazioni per l'archiviazione informatica".

Lo studio è stato redatto nel rispetto dei seguenti riferimenti tecnici:

- Allegato A2 "Criteri per la realizzazione degli studi di microzonazione sismica e analisi della condizione limite per l'emergenza, di cui all'Ordinanza del Capo Dipartimento della Protezione Civile n. 532/2018", della deliberazione di Giunta regionale n. 2047 del 03/12/2018 "O.C.D.P.C. 9 agosto 2018, N. 532 - Annualità 2018

- "Microzonazione sismica - Standard di rappresentazione e archiviazione informatica" - Versione 4.1, Roma, novembre 2018 - Elaborato e approvato nell'ambito dei lavori della Commissione tecnica per la microzonazione sismica;

- "Indirizzi e criteri per la microzonazione sismica" approvati dal Dipartimento della Protezione Civile e dalla Conferenza delle Regioni e delle Province Autonome e successive modifiche e integrazioni;

- Allegato A della deliberazione di Giunta regionale della Regione Emilia Romagna n. 630 del 29/04/2019: "ATTO DI COORDINAMENTO TECNICO SUGLI STUDI DI MICROZONAZIONE SISMICA PER LA PIANIFICAZIONE TERRITORIALE E URBANISTICA (ARTT. 22 E 49, L.R . N. 24/2017).".

Le aree oggetto di studio, d'accordo con l'amministrazione comunale, sono state quelle individuate e definite negli studi di secondo livello, già consegnati all'amministrazione comunale stessa.
Nel corso dello studio sono stati redatti oltre alla presente relazione gli elaborati elencati nel capitolo 7.
Essi sono stati predisposti, oltre che in versione cartacea ed in versione digitale. I dati cartografici sono forniti anche in formato vettoriale (shapefile).
Per l'archiviazione dei dati e l'editing dei documenti sono stati seguiti gli standard di riferimento forniti dall'Allegato D della delibera regionale e Standard di rappresentazione e archiviazione informatica.

L'inserimento dei dati alfanumerici dei siti, delle indagini e dei parametri delle indagini è stato facilitato dall'utilizzo dell'apposito software: "MS - SoftMS" nella versione 4.1.
Il presente studio di terzo livello è stato basato sullo studio di primo e secondo livello redatto dal sottoscritto nel luglio 2019.
In particolar modo lo studio di microzonazione di terzo livello è consistito nelle seguenti fasi:

- individuazione, dallo studio di microzonazione di I e II livello, delle aree rappresentative per lo studio di III livello;

- valutazione della risposta sismica locale (RSL) su opportune sezioni ritenute significative attraverso il codice di calcolo commerciale LSR2D - Stacec Srl che implementa un modello bidimensionale agli elementi finiti la cui soluzione numerica di propagazione delle onde sismiche avviene attraverso un'analisi lineare equivalente nel dominio del tempo ed in tensioni totali;

- calcolo dei fattori di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido;

- calcolo dei fattori di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s;

- calcolo dei fattori di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s;

- redazione delle cartografie di microzonazione sismica Livello 3 per i diversi fattori amplificativi sopra riportati e nello specifico:

- FPGA;
- FA0105;
- FA0408;
- FA0711;
- FA0515;
- FH0105;
- FH0510;
- FH0515;

- determinazione delle spettro elastico di risposta in superficie rappresentativo della singola zona, sia in termini di pseudovelocità, che in termini di pseudoaccelerazione e fornitura degli spettri degli accelerogrammi di input utilizzati per le elaborazioni numeriche.

- determinazione per ogni singola zona della categoria di sottosuolo indicativa (A, B, C, D, E), così come definita nella normativa antisismica vigente (NTC2018 - Norme tecniche per le costruzioni - D.M. 17 Gennaio 2018; Eurocodice 8. Progettazione delle strutture per la resistenza sismica).

- redazione della cartografia, dei valori di H_{SM}, H_{0408}, H_{0711} e H_{0515}, parametro che esprime lo scuotimento atteso in valore assoluto (accelerazione, cm/s^2), atteso al sito per gli intervalli di periodi 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s.

2. DEFINIZIONE DELLA PERICOLOSITA' DI BASE E DEGLI EVENTI DI RIFERIMENTO

2.1 Inquadramento Sismotettonico

San Prospero s/S è un comune della pianura centro-settentrionale modenese, localizzato sul fianco meridionale dell'anticlinale di Mirandola (Boccaletti e t al., 2004; Martelli et al., 2017a) delle Pieghe Ferraresi (Pieri e Groppi, 1981).

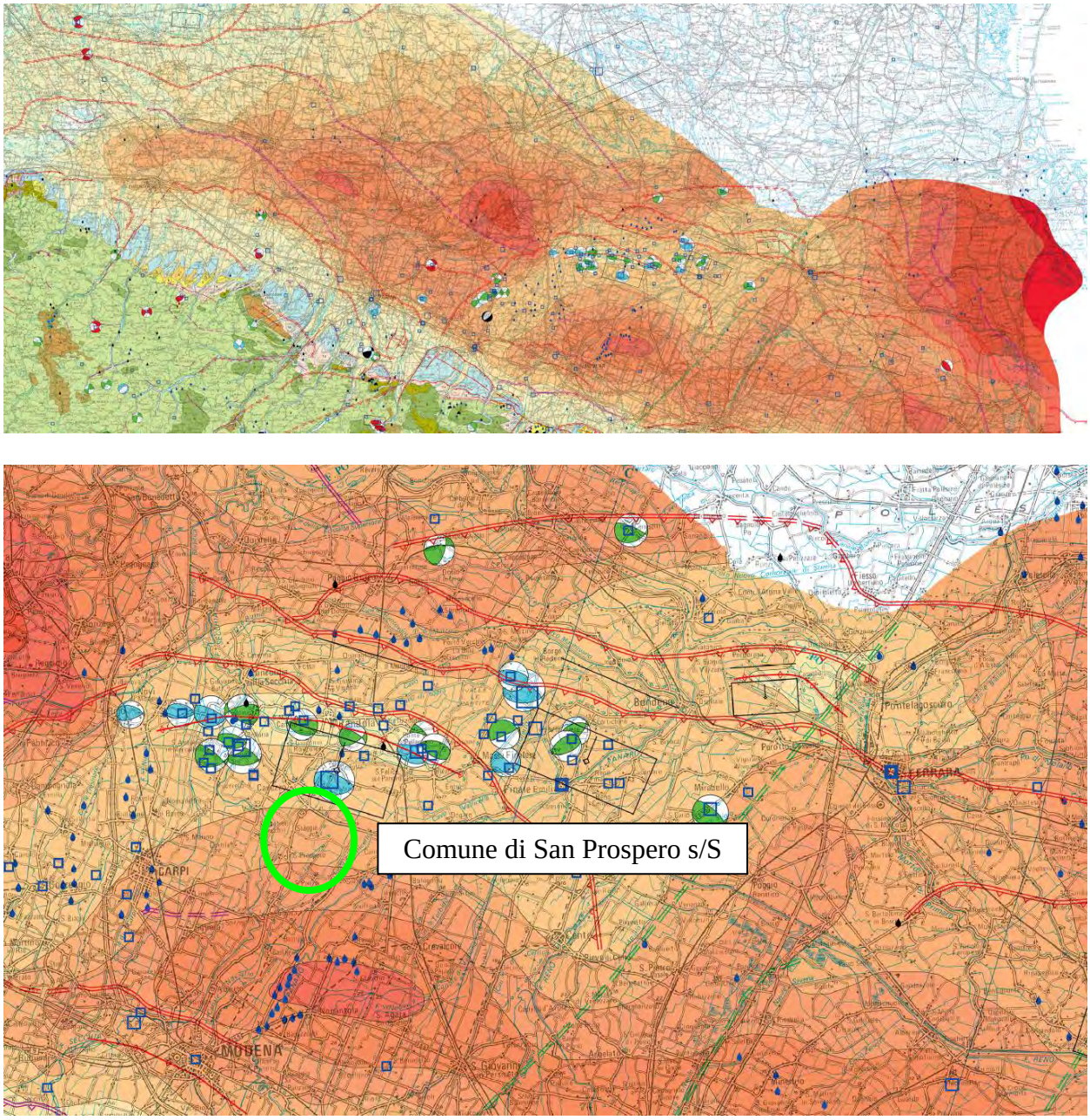


Figura 2.1: Carta Sismotettonica della Regione Emilia-Romagna e aree limitrofe (2016)

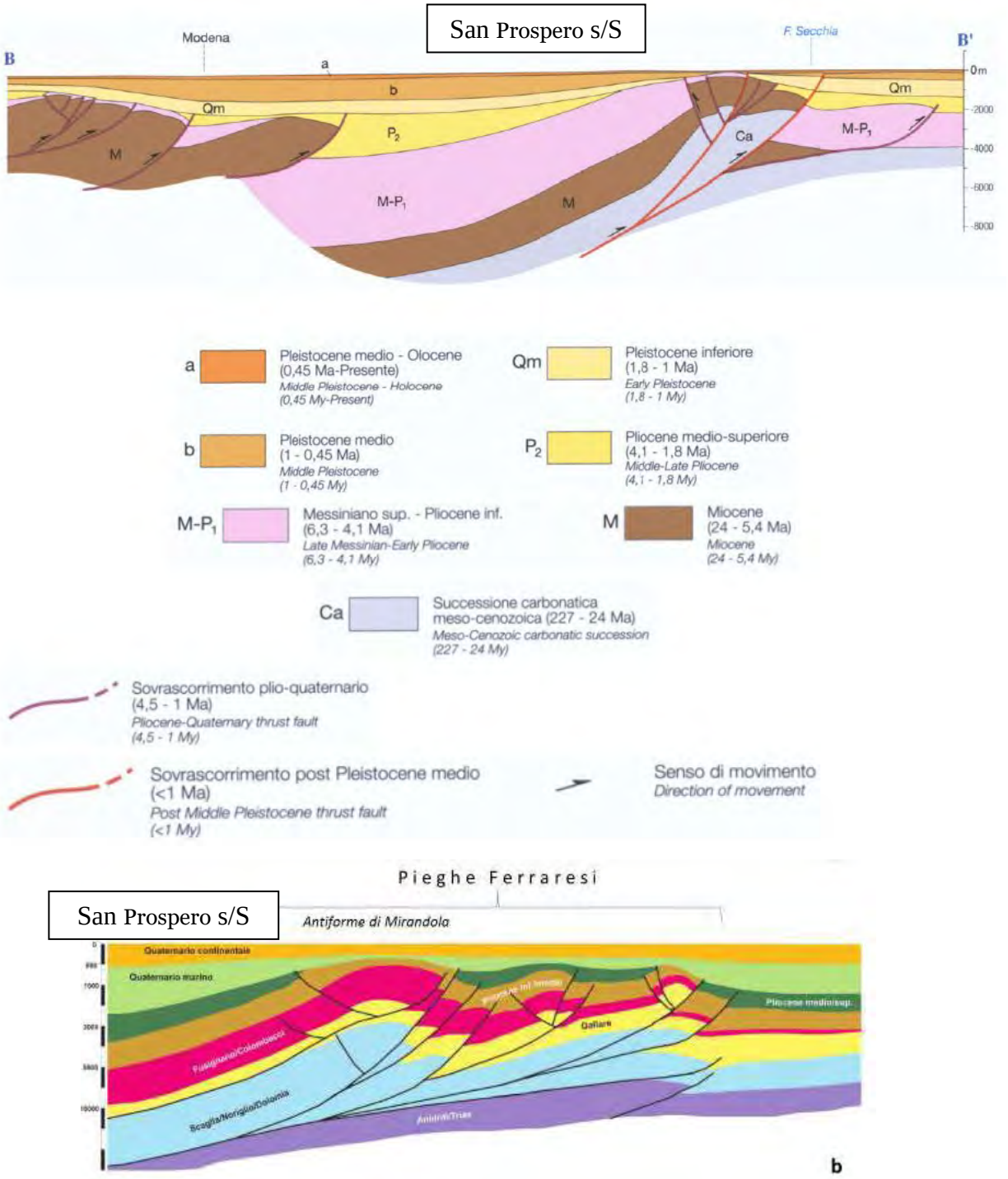


Figura 2.2: sezioni geologiche attraverso la pianura modenese; a) da Castelnuovo Rangone (MO) a Quistello (MN) (mod. da Boccaletti et al., 2004), b) da S. Prospero (MO) a Ostiglia (MN) (mod. da Martelli et al., 2017a).

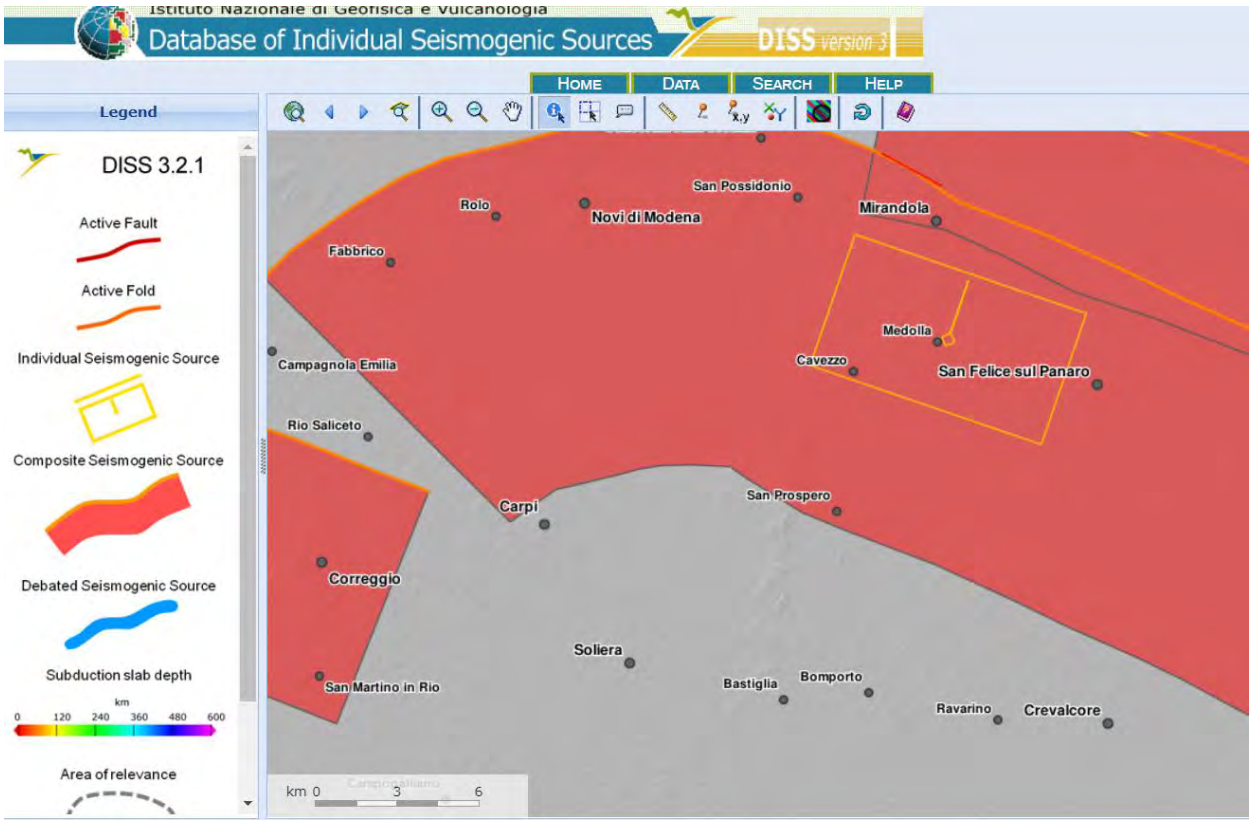


Figura 2.3: zone sismogeniche capaci di generare terremoti M≥5,5 (da DISS3.2.1; DISS Working Group, 2015).

In particolare, il territorio di San Prospero s/S risulta compreso nell'area della sorgente sismogenica composita ITCS051 Carpi - Poggio Renatico, che secondo il DISS Working Group (2015), è capace di generare terremoti Mw=6,0 (fig. 2.3).

2.2 Attività tettonica

I depositi correlati ai progressivi stadi di sollevamento appenninico documentano importanti fasi all'inizio del *Pleistocene* (1,73 Ma) e nel *Pleistocene medio* (0,8 e 0,65 Ma) che nell'area reggiano - modenese sono correlati all'interazione della parte più interna delle Pieghe Ferraresi con il fronte delle Pieghe Emiliane e Romagnole.
Nel *Pleistocene medio* si instaurano gli ambienti sedimentari continentali che hanno generato i depositi dei Sintemi Emiliano Romagnolo Inferiore (0,65 ÷ 0,45 Ma, AEI) e Superiore (0,45 Ma ÷ AES presente). Le fasi tettoniche più recenti, che denotano l'attività delle strutture nel *Pleistocene superiore – Olocene* sono testimoniate da sovrascorrimenti sepolti delle Pieghe Ferraresi, messi in risalto dalle geometrie arcuate della base delle unità alluvionali AEI ed AES (0.4 ÷ 0.65 Ma3), come si evidenzia nei territori di Novi di Modena - Mirandola.

La distribuzione degli ipocentri focali denota che il territorio in oggetto è interessato principalmente da un'attività sismogenetica, correlata a faglie compressive e trascorrenti, di tipo superficiale: primi 5/10/15 km del sottosuolo, connessa agli stress tettonici che si accumulano nella parte medio basale della successione carbonatica e nella fascia di sovrascorrimento del basamento; la diffusione degli ipocentri che si generano tra - 15 e - 35 km dal piano campagna, è simile a quella più superficiale ma contraddistinta da densità inferiore.
D'altra parte la sismicità più profonda, ipocentri sottostanti 35 km dal piano campagna, nella pianura è decisamente minore ed induce risentimenti in superficie con effetti più bassi.

2.3 Pericolosità sismica di base

Allo stato attuale la normativa di riferimento in materia sismica risulta essere il D.M. 17 gennaio 2018 recante "Norme tecniche per le costruzioni", entrata in vigore a partire dal 22 marzo 2018.
La classificazione sismica dei comuni della regione Emilia-Romagna introdotta ai sensi del punto 3 dell'Allegato 1 dell'Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 maggio 2003, prevede che il territorio nazionale sia suddiviso in quattro zone sismiche, caratterizzate da quattro diversi valori di accelerazione (a_g).
Nell'Ordinanza del Presidente del Consiglio dei Ministri n. 3519 del 28 aprile 2006 "Criteri generali per l'individuazione delle zone sismiche e per la formulazione degli elenchi delle medesime zone" all'allegato 1.A" sono individuate quattro zone sismiche orizzontale massima convenzionale su suolo di tipo A, ai quali ancorare lo spettro di risposta elastico.
Ciascuna zona è individuata mediante valori di accelerazione massima al suolo a_g, con probabilità di superamento del 10% in 50 anni, riferiti a suoli rigidi caratterizzati da $Vs_{30} > 800\ m/s$ secondo lo schema seguente. I valori di accelerazione delle quattro zone sismiche sono maggiormente specificati rispetto all' Ordinanza del Presidente del Consiglio dei Ministri n. 3274 secondo la schema di seguito proposto (tabella 2.1):

Tabella 2.1: Valori di accelerazione al suolo a_g

Zona	Accelerazione con probabilità di superamento pari al 10% in 50 anni (a_g) - OPCM 3519	Accelerazione orizzontale massima convenzionale di ancoraggio dello spettro di risposta elastico (a_g) - OPCM 3274
1	$0.25 < a_g \leq 0.35\ g$	$0.35\ g$
2	$0.15 < a_g \leq 0.25\ g$	$0.25\ g$
3	$0.05 < a_g \leq 0.15\ g$	$0.15\ g$
4	$\leq 0.05\ g$	$0.05\ g$

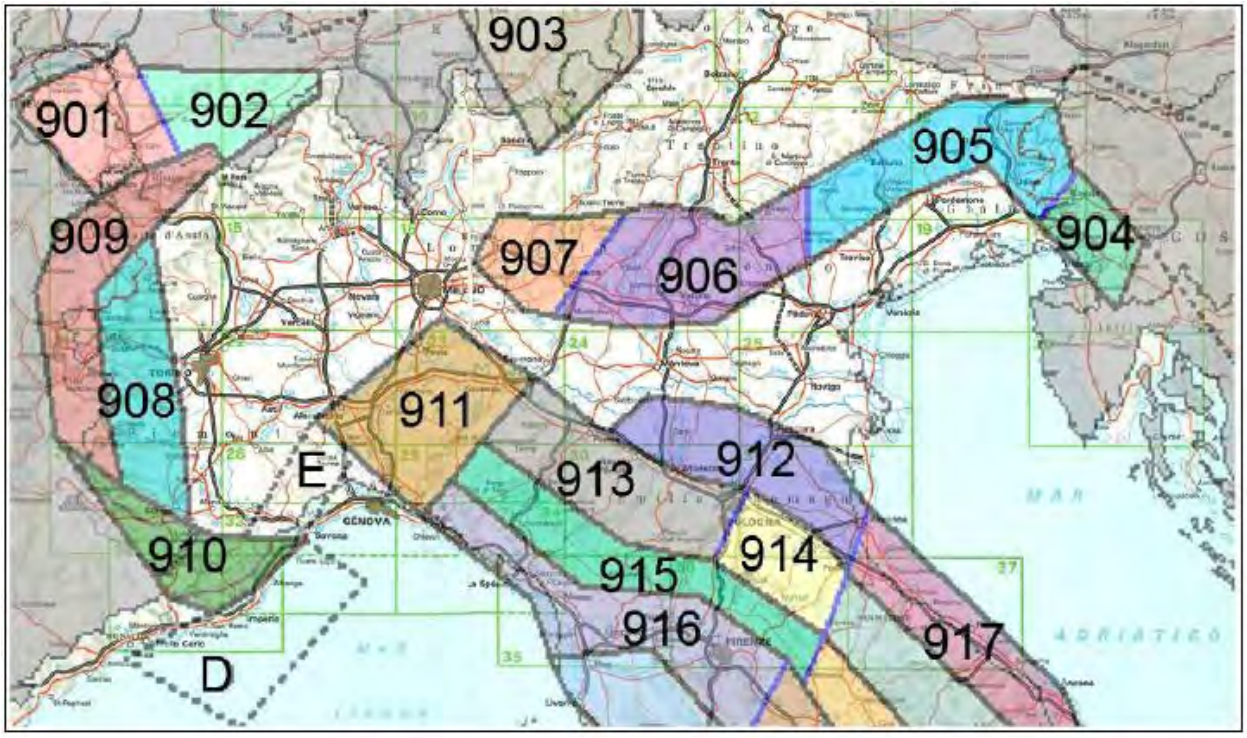
Di seguito si riportano le classificazioni della sismicità del comune interessato dagli interventi in base alle vecchie normative e ovviamente anche in base alla nuova e vigente classificazione proposta dall'OPCM 3274/2003 e s.m.i (tabella 2.2).

Tabella 2.2: Classificazione della sismicità del comune e valore dell'accelerazione al suolo a_g

Comune	Classificazione sismica (Decreti fino al 1984)	Classificazione sismica OPCM 3274/2003	a_g
San Prospero s/S	nc	3	0.15 g

I parametri di accelerazione massima orizzontale di picco al suolo, ag, relativi all'area di pertinenza del settore di territorio in esame, in base alla griglia dell'NTC 17/01/2018, sono congruenti con quelli delle classificazioni sopra esposte.

La zonazione sismica del territorio nazionale, che identifica le zone sorgenti a caratteristiche sismiche omogenee, elaborata da INGV, attribuisce il territorio in oggetto alla zona sismogenetica 912 (Meletti e Valensise, 2004) disponibile nel sito web http://zonesismiche.mi.ingv.it/documenti/App2.pdf.

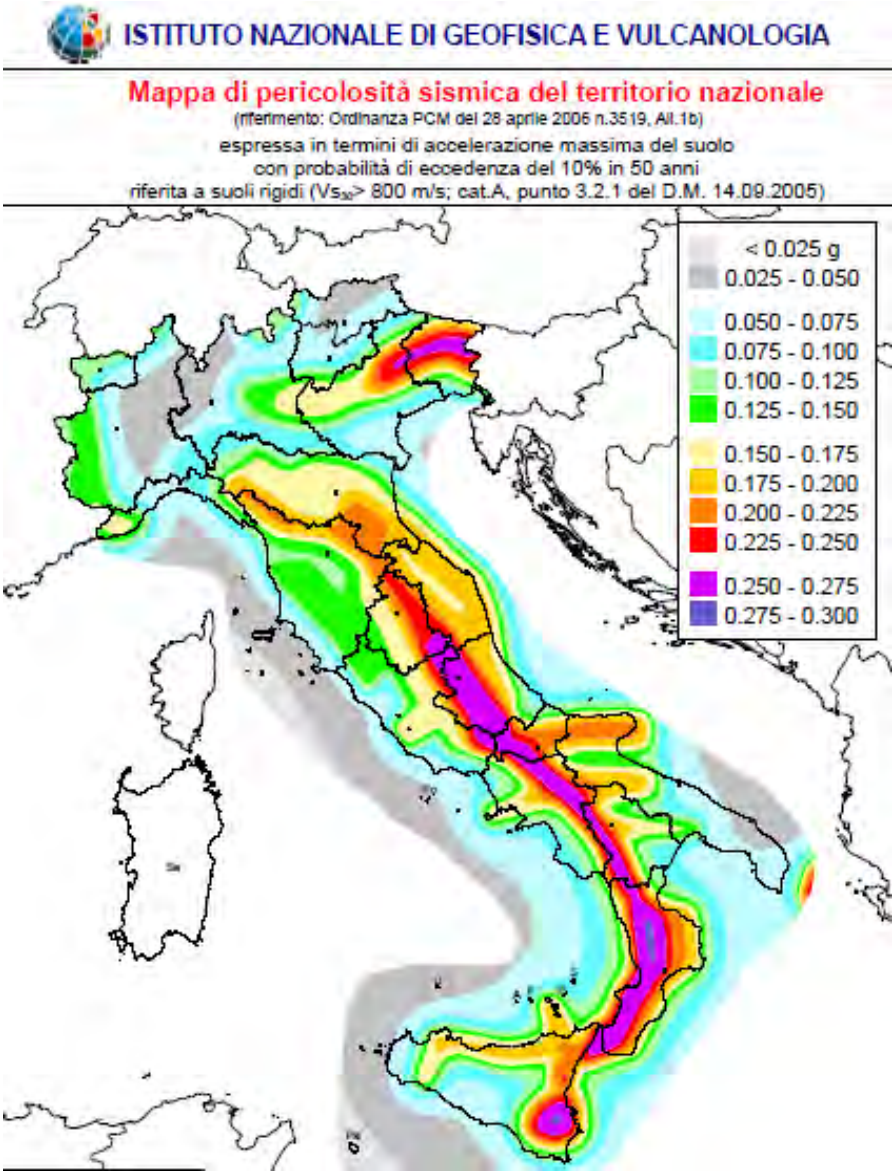


Zonazione sismogenetica ZS9 (INGV, 2004)

Una stima della pericolosità sismica dell'area è data dalla mappa redatta dall'INGV nel 2006 (OPCM 3519/2006), disponibile nel sito web http://zonesismiche.mi.ingv.it.
I valori di ag, attribuiscono, alle fasce territoriali a cui appartiene il territorio di San Prospero s/S, valori dell'accelerazione di picco ag attesa su suolo di riferimento (categoria di suolo A delle NTC 2018) per un periodo di ritorno di 475 anni (parametro ritenuto indicativo e di riferimento per la pericolosità sismica a scala nazionale) compresi tra:

ag= 0,150 ÷ 0,175 g

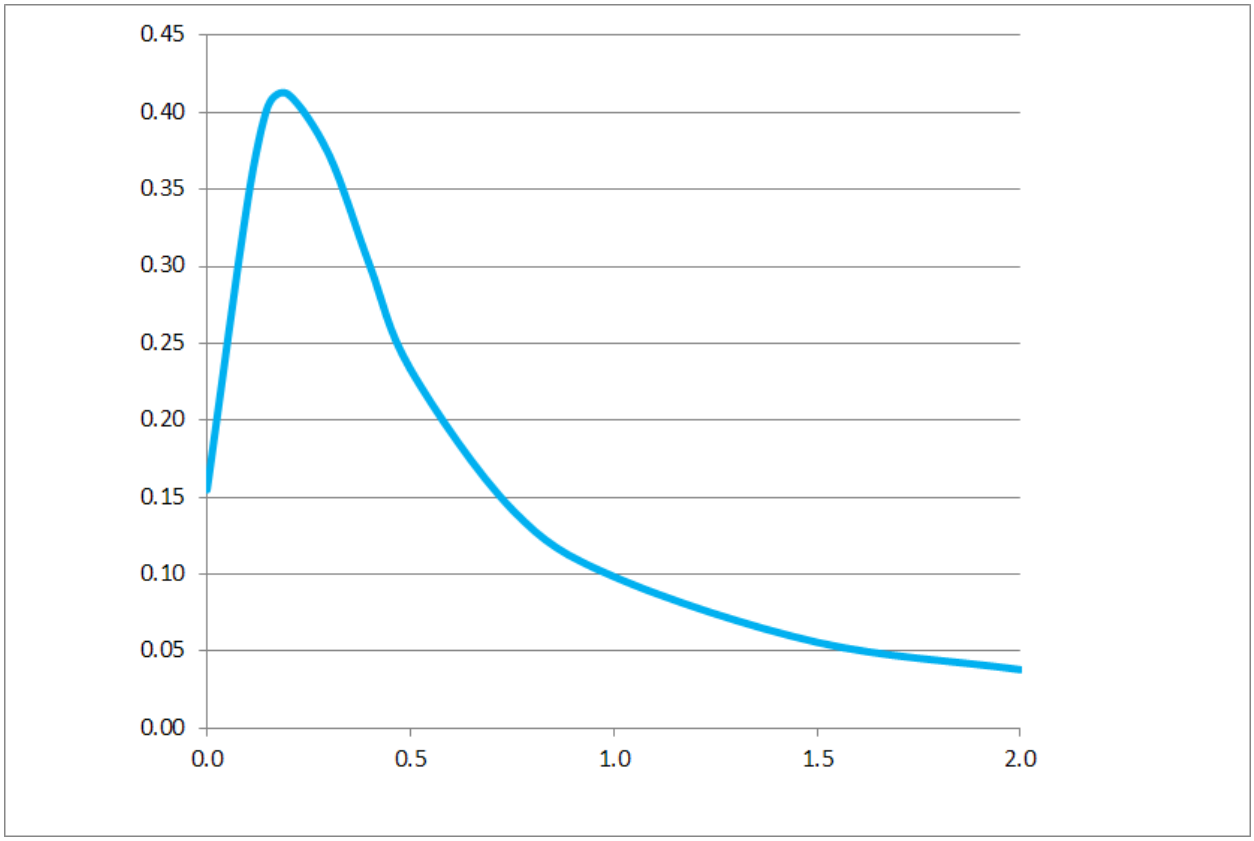
per un eccedenza dell'evento del 10 % in 50 anni.



Il valore della ag di riferimento riportato nell'allegato A4 della Delibera di Giunta della Regione Emilia Romagna n° 630/2019, corrisponde, per il comune di San Prospero s/S, a:

ag_{ref}= 0,155g

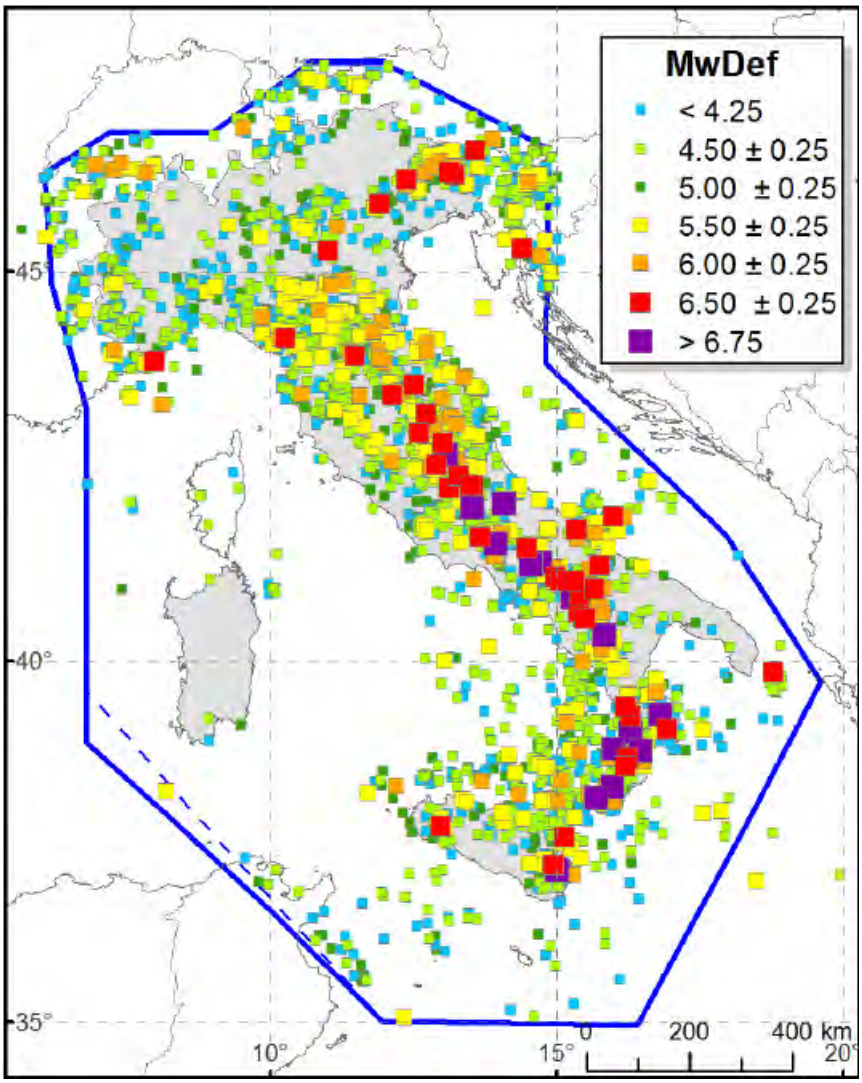
Lo spettro di risposta di riferimento del bedrock sismico o suolo A nel comune di San Prospero s/S (MO), che presenta il valore di ag pari a 0,155g con probabilità di eccedenza del 10% in 50 anni, è visualizzato nella seguente figura.



In riferimento a tale spettro, in funzione dei valori di velocità delle onde S che competono alle unità litostratigrafiche che costituiscono le varie parti del territorio comunale, sono state determinate le amplificazioni in superficie, attraverso valori dei fattori di Amplificazione (F.A.), secondo i parametri esposti nelle tabelle dell'Allegato A2 della DGR. 630/2019.

Per quanto riguarda la sismicità storica del comune, il Catalogo Parametrico dei terremoti italiani CPTI15 (A. Rovida, M. Lovati, R. Camassi, B. Lolli e P. Gasperini (a cura di), 2016. CPTI15, la versione 2016 del Catalogo Parametrico dei Terremoti Italiani. Milano, Bologna, http://emidius.mi.ingv.it/CPTI15) documenta eventi massimi sismici

all' 8° grado della Scala Mercalli - Cancani - Sieberg, con intensità compresa tra M = 5,5 - 6.



A tal proposito si riportano i dati storici del comune di San Prospero s/S e dei comuni limitrofi.

Nella tabella 2.3 sono riportati i dati storici del comune di San Prospero s/S, definiti nel Gruppo di lavoro CPTI (2015) Catalogo Parametrico dei Terremoti Italiani, versione 2015 (CPTI15), INGV, Bologna con aggiornamento DBMI15 (dicembre 2015) reperibile all'indirizzo web http://emidius.mi.ingv.it/CPTI15-DBMI15/

San Prospero

PlaceID	IT_39060
Coordinate (lat, lon)	44.789, 11.021
Comune (ISTAT 2015)	San Prospero
Provincia	Modena
Regione	Emilia-Romagna
Numero di eventi riportati	18

Effetti	In occasione del terremoto del									
Int.	Anno	Me	Gi	Ho	Mi	Se	Area epicentrale	NMDP	Io	Mw
NF	1957	08	27	11	54		Appennino modenese	58	5	4.73
5	1978	12	25	22	53	4	Bassa modenese	28	5	4.39
6	1983	11	09	16	29	5	Parmense	850	6-7	5.04
NF	1986	12	06	17	07	1	Ferrarese	604	6	4.43
4	1987	04	24	02	30	2	Reggiano	54	6	4.64
4	1987	05	08	11	10	2	Bassa modenese	24	6	4.44
4	1988	03	15	12	03	1	Reggiano	160	6	4.57
5	1996	10	15	09	55	5	Pianura emiliana	135	7	5.38
4	1996	10	26	04	56	5	Pianura emiliana	63	5-6	3.94
4	1996	11	25	19	47	5	Pianura emiliana	65	5-6	4.29
3-4	1996	12	16	09	09	5	Pianura emiliana	115	5-6	4.06
NF	1997	05	12	22	13	5	Pianura emiliana	56	4-5	3.68
NF	1998	02	21	02	21	1	Pianura emiliana	104	5	3.93
2	2000	06	18	07	42	0	Pianura emiliana	304	5-6	4.40
NF	2002	06	18	22	23	3	Frignano	186	4	4.30
F	2011	07	17	18	30	2	Pianura lombardo-veneta	73	5	4.79
5	2012	05	20	02	03	5	Pianura emiliana	53	7	6.09
6	2012	05	29	07	00	0	Pianura emiliana	87	7-8	5.90

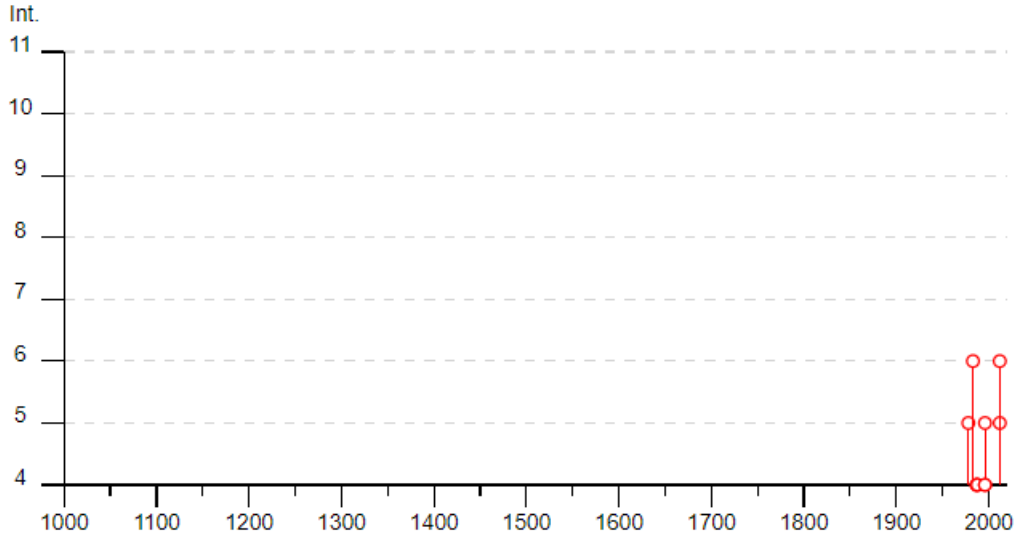


Tabella 2.3: Storia sismica del comune di San Prospero s/S (MO).

Nella tabella 2.4 sono riportati i dati storici del comune di Carpi, definiti nel Gruppo di lavoro CPTI (2015) Catalogo Parametrico dei Terremoti Italiani, versione 2015 (CPTI15), INGV, Bologna con aggiornamento DBMI15 (dicembre 2015) reperibile all'indirizzo web http://emidius.mi.ingv.it/CPTI15-DBMI15/

Carpi

PlaceID	IT_38203
Coordinate (lat, lon)	44.784, 10.885
Comune (ISTAT 2015)	Carpi
Provincia	Modena
Regione	Emilia-Romagna
Numero di eventi riportati	84

Effetti	In occasione del terremoto del				
Int.	Anno Me Gi Ho Mi Se	Area epicentrale	NMDP	Io	Mw
HD	1117 01 03 15 15	Veronese	55	9	6.52
F	1474 03 11 20 30	Modena	3	5	4.16
5	1624 03 19	Argenta	18	7-8	5.43
6-7	1661 03 21 23	Modenese	4	6-7	4.86
5	1666 04 14 18 58	Bolognese	3	5	4.16
5-6	1671 06 20 10	Modenese-Reggiano	8	7	5.27
4	1672 04 14 15 45	Riminese	92	8	5.59
4	1695 02 25 05 30	Asolano	107	10	6.40
6-7	1806 02 12	Reggiano	28	7	5.21
4-5	1811 07 15 22 44	Modenese-Reggiano	19	6-7	5.13
6	1818 12 09 18 55	Parmense	26	7	5.24
F	1828 10 09 02 20	Oltrepò Pavese	110	8	5.72
F	1831 07 14 15 30	Reggiano	8	5-6	4.60
6	1831 09 11 18 15	Pianura emiliana	25	7-8	5.48
3-4	1831 09 13 05 30	Pianura emiliana	7		
6	1832 03 11 06 45	Carpi	14	5	4.51
5	1832 03 11 08 45	Parmense	14		
3-4	1832 03 12 08 45	Reggiano	7		
7	1832 03 13 03 30	Reggiano	97	7-8	5.51
F	1832 03 14 04 40	Reggiano	5		
F	1832 03 14 07 41	Reggiano	7		

5	1832	04	19	14	14		Reggiano	5			
3	1834	02	14	13	15		Val di Taro-Lunigiana	112		9	5.96
4	1834	07	04	00	45		Val di Taro-Lunigiana	24		6-7	5.08
3	1834	10	04	19			Bolognese	12		6	4.71
3	1837	04	11	17			Lunigiana	60		9	5.94
3	1846	08	14	12			Colline Pisane	121		9	6.04
F	1850	09	18	06	20		Modenese	7		5	4.16
4	1860	07	17	13	43	3	Reggiano	5		4-5	3.93
4-5	1887	02	23	05	21	5	Liguria occidentale	1511		9	6.27
3	1889	03	08	02	57	0	Bolognese	38		5	4.53
NF	1898	01	16	13	10		Romagna settentrionale	110		6	4.59
NF	1908	06	28	03	19		Finale Emilia	11		4-5	3.93
5	1909	01	13	00	45		Emilia Romagna orientale	867		6-7	5.36
NF	1909	08	25	00	22		Crete Senesi	259		7-8	5.34
NF	1910	03	22	23	29		Bassa modenese	15		5	4.16
5	1912	09	12	21	15		Carpi	13		4	3.76
6	1914	10	27	09	22		Lucchesia	660		7	5.63
4	1915	10	10	23	10		Reggiano	30		6	4.87
3	1916	08	16	07	06	1	Riminese	257		8	5.82
4-5	1918	05	06	08	05		Reggiano	8		5-6	4.41
6	1919	06	29	15	06	1	Mugello	565		10	6.38
6	1920	09	07	05	55	4	Garfagnana	750		10	6.53
3-4	1923	06	28	15	12		Modenese	22		6	5.04
7	1928	06	13	08			Carpi	35		6	4.67
5	1928	07	25	01	25		Carpi	3		4-5	3.93
3	1929	04	10	05	44		Bolognese	87		6	5.05
5	1929	04	19	04	16		Bolognese	82		6-7	5.13
3	1929	04	19	22	40		Bolognese	12		5-6	4.54
5	1929	04	20	01	10		Bolognese	109		7	5.36
4-5	1929	04	22	08	26		Bolognese	41		6-7	5.10
4	1929	05	11	19	23		Bolognese	64		6-7	5.29

4	1932	07	13	03	42		Reggiano	8	4-5	3.86
4	1936	10	18	03	10		Alpago Cansiglio	269	9	6.06
3-4	1937	12	10	18	04		Frignano	28	6	5.30
4	1939	10	15	14	05		Garfagnana	62	6-7	4.96
2	1957	08	27	11	54		Appennino modenese	58	5	4.73
5	1963	11	04	15	46		Bassa modenese	5	5	4.16
4	1967	04	03	16	36	1	Reggiano	45	5	4.44
6	1971	07	15	01	33	2	Parmense	228	8	5.51
5	1971	09	11	23	18	1	Pianura emiliana	15	5	4.19
4	1972	10	25	21	56	1	Appennino settentrionale	198	5	4.87
5	1978	12	25	22	53	4	Bassa modenese	28	5	4.39
3	1980	12	23	12	01	0	Piacentino	69	6-7	4.57
4	1983	11	09	16	29	5	Parmense	850	6-7	5.04
2	1986	12	06	17	07	1	Ferrarese	604	6	4.43
4-5	1987	04	24	02	30	2	Reggiano	54	6	4.64
6	1987	05	02	20	43	5	Reggiano	802	6	4.71
4	1987	05	08	11	10	2	Bassa modenese	24	6	4.44
5	1988	03	15	12	03	1	Reggiano	160	6	4.57
4	1989	09	13	21	54	0	Prealpi Vicentine	779	6-7	4.85
6-7	1996	10	15	09	55	5	Pianura emiliana	135	7	5.38
4	1996	10	26	04	56	5	Pianura emiliana	63	5-6	3.94
4	1996	10	26	06	50	2	Pianura emiliana	35	5-6	3.63
4-5	1996	11	25	19	47	5	Pianura emiliana	65	5-6	4.29
4-5	1996	12	16	09	09	5	Pianura emiliana	115	5-6	4.06
4	1997	05	12	22	13	5	Pianura emiliana	56	4-5	3.68
5	2000	06	18	07	42	0	Pianura emiliana	304	5-6	4.40
NF	2002	06	08	20	13	0	Frignano	115	4	4.23
NF	2002	06	18	22	23	3	Frignano	186	4	4.30
4	2003	09	14	21	42	5	Appennino bolognese	133	6	5.24
4-5	2008	12	23	15	24	2	Parmense	291	6-7	5.36
3-4	2011	07	17	18	30	2	Pianura lombardo-veneta	73	5	4.79
6	2012	05	29	07	00	0	Pianura emiliana	87	7-8	5.90

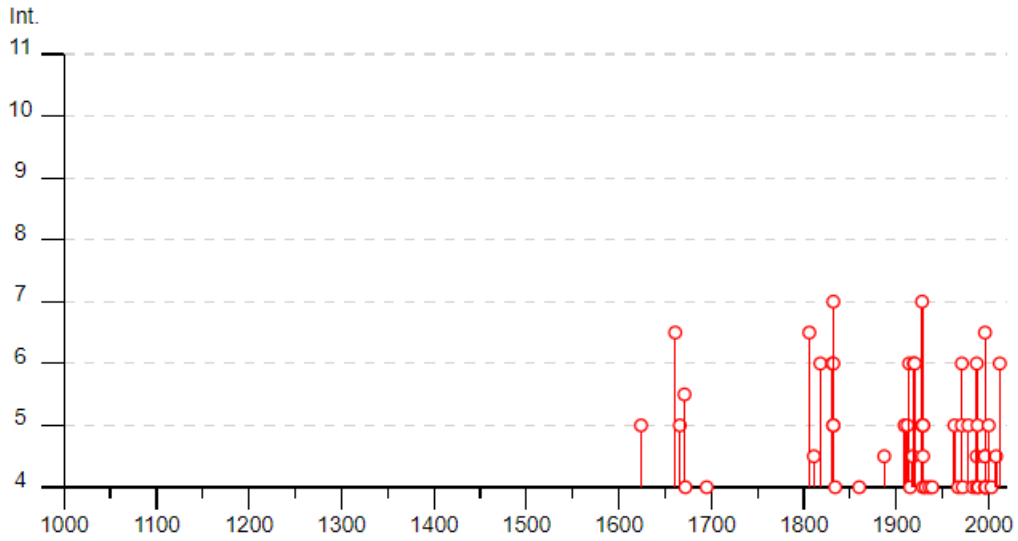


Tabella 2.4: Storia sismica del comune di Carpi (MO).

Nella tabella 2.5 sono riportati i dati storici del comune di Cavezzo, definiti nel Gruppo di lavoro CPTI (2015) Catalogo Parametrico dei Terremoti Italiani, versione 2015 (CPTI15), INGV, Bologna con aggiornamento DBMI15 (dicembre 2015) reperibile all'indirizzo web http://emidius.mi.ingv.it/CPTI15-DBMI15/

Cavezzo

PlaceID	IT_38282
Coordinate (lat, lon)	44.838, 11.028
Comune (ISTAT 2015)	Cavezzo
Provincia	Modena
Regione	Emilia-Romagna
Numero di eventi riportati	27

Effetti	In occasione del terremoto del									
Int.	Anno	Me	Gi	Ho	Mi	Se	Area epicentrale	NMDP	Io	Mw
3	1887	02	23	05	21	5	Liguria occidentale	1511	9	6.27
4	1891	06	07	01	06	1	Valle d'Illasi	403	8-9	5.87
3	1894	11	27	05	07		Bresciano	183	6	4.89
3	1898	03	04	21	05		Parmense	313	7-8	5.37
3	1901	01	20	06	30		Bassa modenese	10	4	3.68
5	1901	01	20	06	34	2	Bassa modenese	12	5	4.11
4	1901	10	30	14	49	5	Garda occidentale	289	7-8	5.44
3	1904	02	25	18	47	5	Reggiano	62	6	4.81
5	1909	01	13	00	45		Emilia Romagna orientale	867	6-7	5.36
3	1910	03	22	23	29		Bassa modenese	15	5	4.16
3	1932	07	13	03	42		Reggiano	8	4-5	3.86
2	1957	08	27	11	54		Appennino modenese	58	5	4.73
NF	1965	11	09	15	35		Appennino reggiano	32	5	4.17
4	1971	07	15	01	33	2	Parmense	228	8	5.51
5-6	1978	12	25	22	53	4	Bassa modenese	28	5	4.39
F	1980	12	23	12	01	0	Piacentino	69	6-7	4.57
3-4	1983	11	09	16	29	5	Parmense	850	6-7	5.04
NF	1986	12	06	17	07	1	Ferrarese	604	6	4.43
4	1987	04	24	02	30	2	Reggiano	54	6	4.64
4	1987	05	08	11	10	2	Bassa modenese	24	6	4.44
3	1988	03	15	12	03	1	Reggiano	160	6	4.57

5	1996	10	15	09	55	5	Pianura emiliana	135	7	5.38
3-4	1998	02	21	02	21	1	Pianura emiliana	104	5	3.93
4	2000	06	18	07	42	0	Pianura emiliana	304	5-6	4.40
2-3	2002	06	18	22	23	3	Frignano	186	4	4.30
6-7	2012	05	20	02	03	5	Pianura emiliana	53	7	6.09
8	2012	05	29	07	00	0	Pianura emiliana	87	7-8	5.90

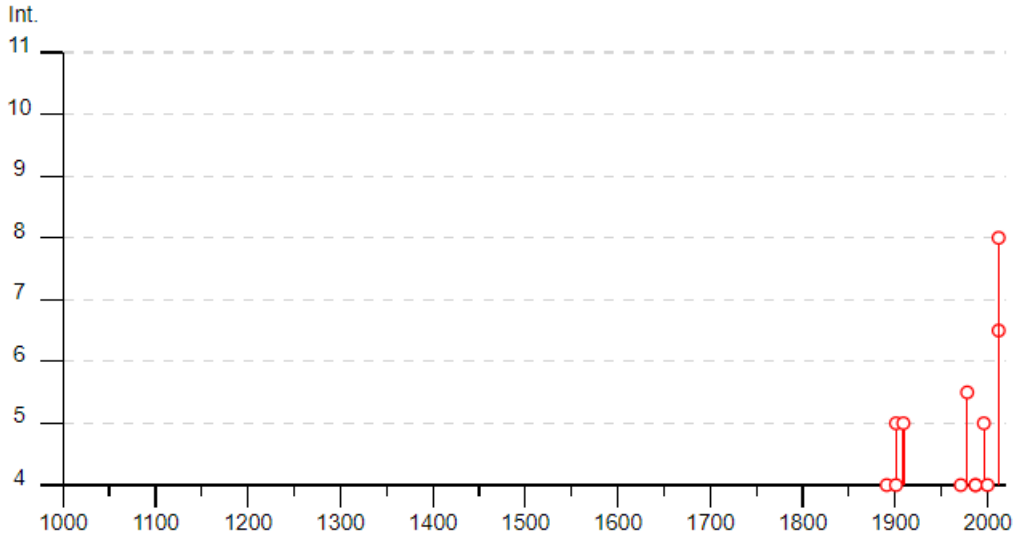


Tabella 2.5: Storia sismica del comune di Cavezzo (MO).

Nella tabella 2.6 sono riportati i dati storici del comune di Bomporto, definiti nel Gruppo di lavoro CPTI (2015) Catalogo Parametrico dei Terremoti Italiani, versione 2015 (CPTI15), INGV, Bologna con aggiornamento DBMI15 (dicembre 2015) reperibile all'indirizzo web http://emidius.mi.ingv.it/CPTI15-DBMI15/

Bomporto

PlaceID	IT_38160
Coordinate (lat, lon)	44.727, 11.042
Comune (ISTAT 2015)	Bomporto
Provincia	Modena
Regione	Emilia-Romagna
Numero di eventi riportati	17

Effetti	In occasione del terremoto del									
Int.	Anno	Me	Gi	Ho	Mi	Se	Area epicentrale	NMDP	Io	Mw
4	1957	08	27	11	54		Appennino modenese	58	5	4.73
NF	1965	11	09	15	35		Appennino reggiano	32	5	4.17
2	1967	04	03	16	36	1	Reggiano	45	5	4.44
5	1971	07	15	01	33	2	Parmense	228	8	5.51
4	1983	11	09	16	29	5	Parmense	850	6-7	5.04
3-4	1988	03	15	12	03	1	Reggiano	160	6	4.57
NF	1992	04	17	11	59	0	Appennino bolognese	56	4-5	4.11
5	1996	10	15	09	55	5	Pianura emiliana	135	7	5.38
NF	1996	10	26	04	56	5	Pianura emiliana	63	5-6	3.94
NF	1996	12	16	09	09	5	Pianura emiliana	115	5-6	4.06
NF	1997	05	12	22	13	5	Pianura emiliana	56	4-5	3.68
NF	1998	02	21	02	21	1	Pianura emiliana	104	5	3.93
3-4	2000	06	18	07	42	0	Pianura emiliana	304	5-6	4.40
NF	2002	06	08	20	13	0	Frignano	115	4	4.23
NF	2002	06	18	22	23	3	Frignano	186	4	4.30
5	2012	05	20	02	03	5	Pianura emiliana	53	7	6.09
5	2012	05	29	07	00	0	Pianura emiliana	87	7-8	5.90

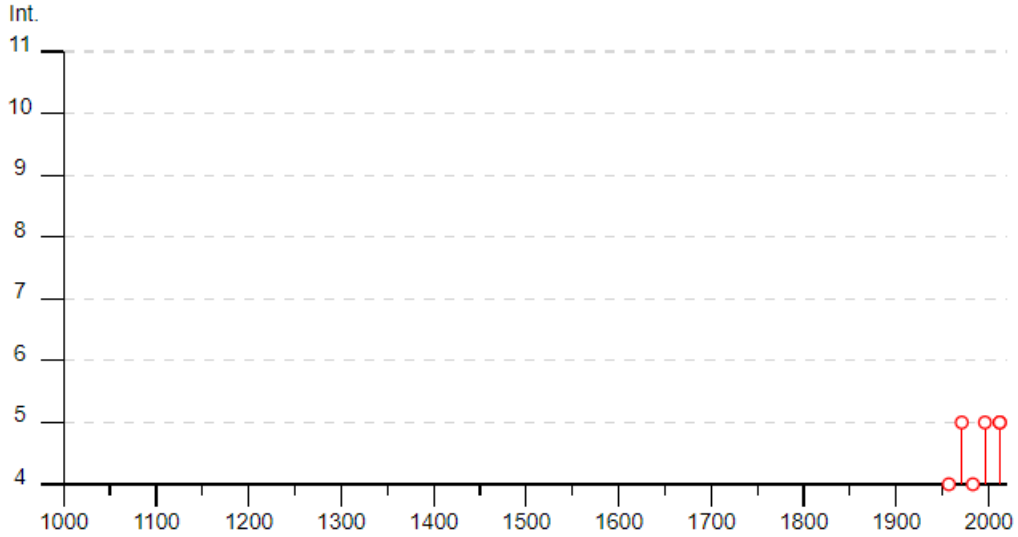


Tabella 2.6: Storia sismica del comune di Bomporto (MO).

Nella tabella 2.7 sono riportati i dati storici del comune di Medolla, definiti nel Gruppo di lavoro CPTI (2015) Catalogo Parametrico dei Terremoti Italiani, versione 2015 (CPTI15), INGV, Bologna con aggiornamento DBMI15 (dicembre 2015) reperibile all'indirizzo web http://emidius.mi.ingv.it/CPTI15-DBMI15/

Medolla

PlaceID	IT_38522
Coordinate (lat, lon)	44.849, 11.071
Comune (ISTAT 2015)	Medolla
Provincia	Modena
Regione	Emilia-Romagna
Numero di eventi riportati	20

Effetti	In occasione del terremoto del									
Int.	Anno	Me	Gi	Ho	Mi	Se	Area epicentrale	NMDP	Io	Mw
3-4	1901	01	20	06	30		Bassa modenese	10	4	3.68
3-4	1901	01	20	06	34	2	Bassa modenese	12	5	4.11
4	1971	07	15	01	33	2	Parmense	228	8	5.51
5	1978	12	25	22	53	4	Bassa modenese	28	5	4.39
3	1983	11	09	16	29	5	Parmense	850	6-7	5.04
3	1986	12	06	17	07	1	Ferrarese	604	6	4.43
4	1987	04	24	02	30	2	Reggiano	54	6	4.64
6	1987	05	02	20	43	5	Reggiano	802	6	4.71
5	1987	05	08	11	10	2	Bassa modenese	24	6	4.44
5	1987	07	11	01	46	5	Bassa Bolognese	15	5	4.20
4	1988	03	15	12	03	1	Reggiano	160	6	4.57
NF	1996	10	26	04	56	5	Pianura emiliana	63	5-6	3.94
NF	1996	11	25	19	47	5	Pianura emiliana	65	5-6	4.29
NF	1996	12	16	09	09	5	Pianura emiliana	115	5-6	4.06
NF	1998	02	21	02	21	1	Pianura emiliana	104	5	3.93
3-4	2000	06	18	07	42	0	Pianura emiliana	304	5-6	4.40
NF	2002	06	18	22	23	3	Frignano	186	4	4.30
4-5	2011	07	17	18	30	2	Pianura lombardo-veneta	73	5	4.79
5-6	2012	05	20	02	03	5	Pianura emiliana	53	7	6.09
6	2012	05	29	07	00	0	Pianura emiliana	87	7-8	5.90

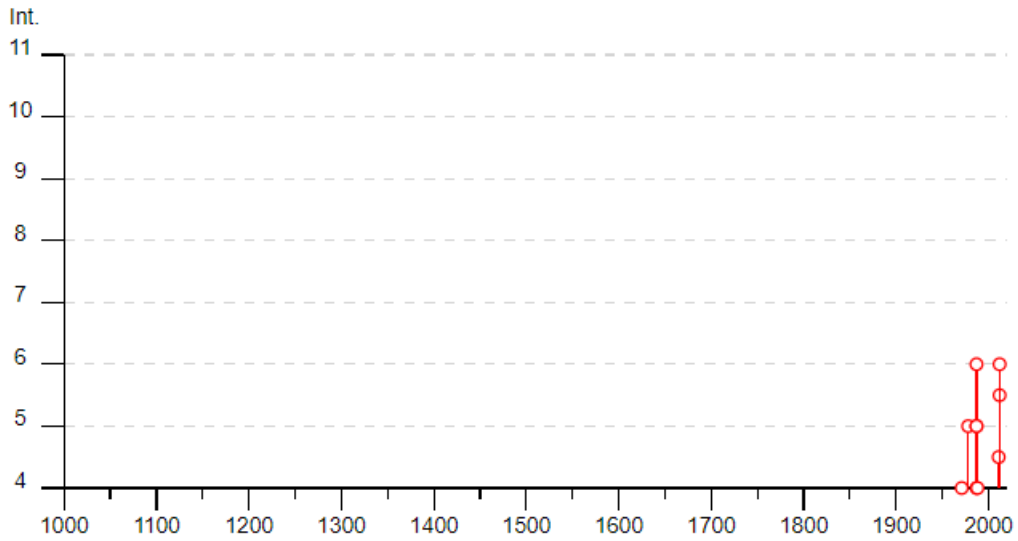


Tabella 2.7: Storia sismica del comune di Medolla (MO).

Nella tabella 2.8 sono riportati i dati storici del comune di Soliera, definiti nel Gruppo di lavoro CPTI (2015) Catalogo Parametrico dei Terremoti Italiani, versione 2015 (CPTI15), INGV, Bologna con aggiornamento DBMI15 (dicembre 2015) reperibile all'indirizzo web http://emidius.mi.ingv.it/CPTI15-DBMI15/

Soliera

PlaceID	IT_39155
Coordinate (lat, lon)	44.736, 10.922
Comune (ISTAT 2015)	Soliera
Provincia	Modena
Regione	Emilia-Romagna
Numero di eventi riportati	24

Effetti	In occasione del terremoto del									
Int.	Anno	Me	Gi	Ho	Mi	Se	Area epicentrale	NMDP	Io	Mw
NF	1902	12	04	16	35	0	Lunigiana	36	5	4.35
6	1928	06	13	08			Carpi	35	6	4.67
3	1932	07	13	03	42		Reggiano	8	4-5	3.86
4	1967	04	03	16	36	1	Reggiano	45	5	4.44
5	1971	07	15	01	33	2	Parmense	228	8	5.51
5	1971	09	11	23	18	1	Pianura emiliana	15	5	4.19
5	1978	12	25	22	53	4	Bassa modenese	28	5	4.39
4	1983	11	09	16	29	5	Parmense	850	6-7	5.04
NF	1986	12	06	17	07	1	Ferrarese	604	6	4.43
4-5	1987	04	24	02	30	2	Reggiano	54	6	4.64
5	1987	05	02	20	43	5	Reggiano	802	6	4.71
4	1987	05	08	11	10	2	Bassa modenese	24	6	4.44
5	1988	03	15	12	03	1	Reggiano	160	6	4.57
NF	1992	04	17	11	59	0	Appennino bolognese	56	4-5	4.11
5-6	1996	10	15	09	55	5	Pianura emiliana	135	7	5.38
4-5	1996	10	26	04	56	5	Pianura emiliana	63	5-6	3.94
3	1996	10	26	06	50	2	Pianura emiliana	35	5-6	3.63
3	1996	11	25	19	47	5	Pianura emiliana	65	5-6	4.29
3	1996	12	16	09	09	5	Pianura emiliana	115	5-6	4.06
3	1997	05	12	22	13	5	Pianura emiliana	56	4-5	3.68
4	1998	02	21	02	21	1	Pianura emiliana	104	5	3.93

4-5	2000	06	18	07	42	0	Pianura emiliana	304	5-6	4.40
NF	2002	06	18	22	23	3	Frignano	186	4	4.30
NF	2002	06	19	22	11	1	Frignano	52	3	4.03

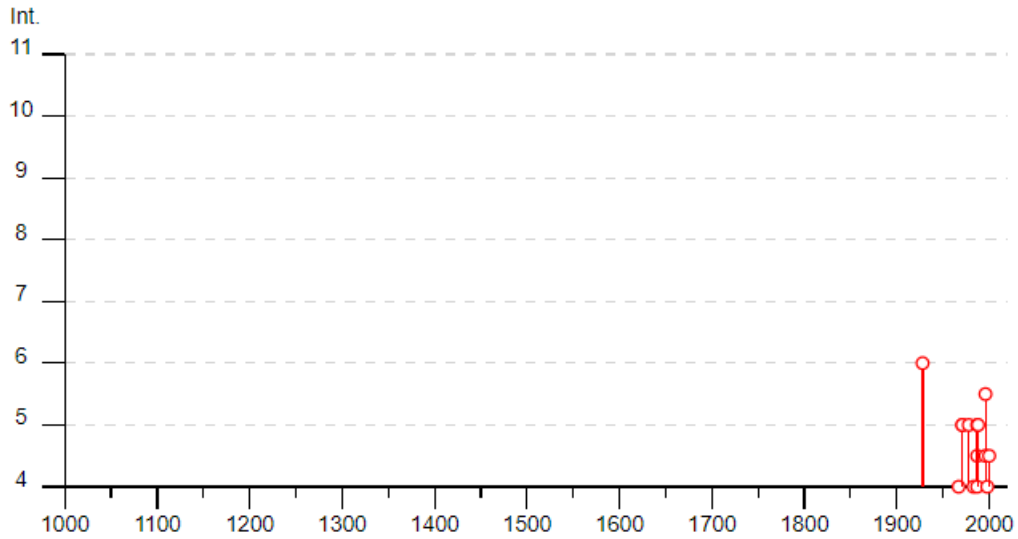


Tabella 2.8: Storia sismica del comune di Soliera (MO).

3. ASSETTO GEOLOGICO E GEOMORFOLOGICO

3.1 Inquadramento geologico

Il territorio comunale di San Prospero s/S si colloca nella parte centro-settentrionale della pianura modenese, in destra idrografica del fiume Secchia, che segna il confine amministrativo occidentale ed in piccola parte meridionale, con i comuni di Soliera, Carpi e Cavezzo.
Dal punto di vista morfologico, il territorio è pressoché pianeggiante con quote variabili tra circa 35 m slm., a sud e a ovest, a circa 16.5 m slm., a nord-est; le quote più elevate sono in corrispondenza dell'attuale arginatura del fiume Secchia, in parte di natura antropica, che si eleva, a sud e a ovest, fino a circa 8 metri rispetto alle zone limitrofe, e dal dossi dei corsi fluviali abbandonati che costituiscono fasce di terreno più elevate, generalmente dell'ordine di un paio di metri , rispetto alla pianura circostante.
Il territorio comunale, geologicamente parlando, si trova in prossimità del fianco meridionale dell'antiforme sepolta di Mirandola, la più interna del sistema delle Pieghe Ferraresi (fig. 3.1) e appartiene al bacino della Pianura Padana, estendentesi su una superficie di circa 46000 kmq, che costituisce la zona di saldatura tra Alpi ed Appennini ed è formata da un'ampia e profonda depressione nella quale si distinguono nettamente due complessi sedimentari.

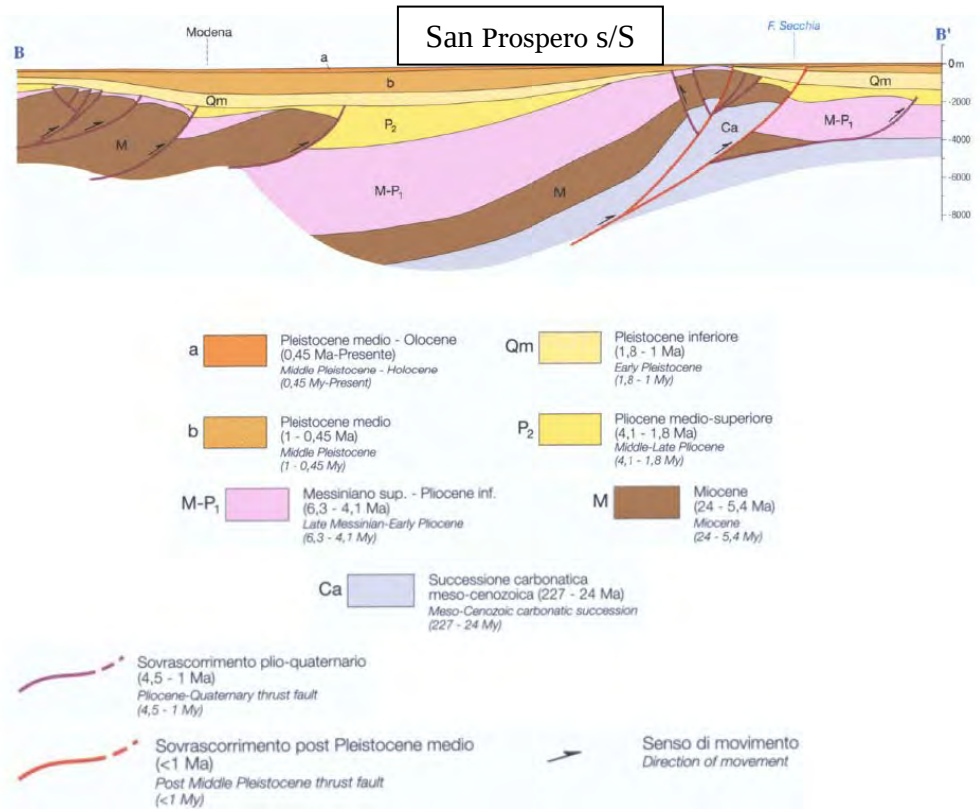


Figura 3.1: Sezione geologica della pianura modenese da Castelnuovo R. a Quistello

Di questi quello più recente, è suddiviso in due Supersintemi, il primo dei quali: Supersintema Emiliano Romagnolo, da oggi a 0,65 Ma, è rappresentato da depositi alluvionali prevalentemente costituiti da sabbie, ghiaie, argille e limi di piana e da sedimentazioni di delta conoide e marine marginali, formate da sabbie ed arenarie poco cementate alternate ad argille e limi e talora ad orizzonti conglomeratici. Detta litozona è seguita dalle successioni sabbiose, arenacee, marnoso argillose del Supersintema del Quaternario Marino da 0,65 a 0,8 Ma (*Pleistocene med.*) dapprima costituite da depositi fluvio deltizi - marino marginali.
Tale successione alluvionale, è stata suddivisa in due cicli sedimentari principali: il Sintema Emiliano-Romagnolo inferiore (AEI), di età compresa tra 800.000 e 450.000 anni, e il Sintema Emiliano-Romagnolo superiore (AES), di età compresa tra 450.000 anni e il periodo attuale.
Al di sotto di quanto sopra indicato troviamo le sequenze cicliche sabbiose talora ghiaiose e limoso sabbioso argillose di prodelta - piattaforma - scarpata marina del *Pleistocene inf.* da 0,8 a 172 Ma. Tali successioni coprono l'unità inferiore rappresentata dalle formazioni plioceniche - mioceniche - mesozoiche (da 1,72 a 24 - 227 Ma) costituite essenzialmente da depositi di ambiente marino sia costiero che di piattaforma e/o bacinale a faune pelagiche.
In sintesi le unità litostratigrafiche che costituiscono la fascia della media-bassa pianura modenese, al quale appartiene il territorio di comunale, sono attribuite, a:

o Unità Quaternarie continentali.

La serie litostratigrafica delle successioni locali è riferita a quella adottata dal progetto CARG., Carta Geologica Regione Emilia Romagna. La descrizione dei tipi litologici delle successioni presenti nel territorio sono schematicamente di seguito descritte relativamente alle caratteristiche litotecniche salienti, riportate nella legenda della tav. 8.2: "Carta geologico-tecnica per la microzonazione sismica".

Si riportano di seguito la descrizione delle unità litostratigrafiche:

UNITÀ QUATERNARIE CONTINENTALI

SINTEMA EMILIANO-ROMAGNOLO SUPERIORE (AES) *(Pleistocene medio?-Olocene)*

Unità alluvionale costituita da sedimenti grossolani e fini, talora intensamente pedogenizzati, con alla base una superficie di discontinuità nel margine appenninico e nell'alta pianura, passante a una superficie di continuità nel sottosuolo della pianura, su AEI. Sintema parzialmente suddiviso in subsintemi limitati, in affioramento, da scarpate di terrazzo fluviale e paleosuoli e nel sottosuolo della pianura da bruschi

contatti fra depositi fini alluvionali e palustri su depositi grossolani di conoide e di piana alluvionale.

SUBSINTEMA DI RAVENNA (AES8) (Olocene età radiometrica della base: 11.000-8.000 anni)

Ghiaie e ghiaie sabbiose, passanti a sabbie e limi organizzate in numerosi ordini di terrazzi alluvionali. Limi prevalenti nelle fasce pedecollinari di interconoide. A tetto suoli a basso grado di alterazione con fronte di alterazione potente fino a 150 cm e parziale decarbonatazione; orizzonti superficiali di colore giallo-bruno. Contengono frequenti reperti archeologici di età del Bronzo, del Ferro e Romana. Potenza fino a oltre 25 m..

AES8a - UNITA' DI MODENA (Post-VI secolo dC.)

Depositi ghiaiosi passanti a sabbie e limi di terrazzo alluvionale. Limi prevalenti nelle fasce pedecollinari di interconoide. Unità definita dalla presenza di un suolo a bassissimo grado di alterazione, con profilo potente meno di 100 cm, calcareo, grigio-giallastro o bruno grigiastro. Nella pianura ricopre resti archeologici di età romana del VI secolo d.C..

Potenza massima di alcuni metri (< 10 m).

I terreni di copertura, sopra descritti, nella Carta geologica tecnica sono stati raggruppati secondo le seguenti legende sotto riportate:

Terreni di copertura		
	RI	Terreni contenenti resti di attività antropica
	GW	Ghiaie pulite con granulometria ben assortita, miscela di ghiaia e sabbie
	GP	Ghiaie pulite con granulometria poco assortita, miscela di ghiaia e sabbia
	GM	Ghiaie limose, miscela di ghiaia, sabbia e limo
	GC	Ghiaie argillose, miscela di ghiaia, sabbia e argilla
	SW	Sabbie pulite e ben assortite, sabbie ghiaiose
	SP	Sabbie pulite con granulometria poco assortita
	SM	Sabbie limose, miscela di sabbia e limo
	SC	Sabbie argillose, miscela di sabbia e argilla
	OL	Limi organici, argille limose organiche di bassa plasticità
	OH	Argille organiche di media-alta plasticità, limi organici
	MH	Limi inorganici, sabbie fini, Limi micacei o diatomitici
	ML	Limi inorganici, farina di roccia, sabbie fini limose o argillose, limi argillosi di bassa plasticità
	CL	Argille inorganiche di medio-bassa plasticità, argille ghiaiose o sabbiose, argille limose, argille magre
	CH	Argille inorganiche di alta plasticità, argille grasse
	PT	Torbe ed altre terre fortemente organiche

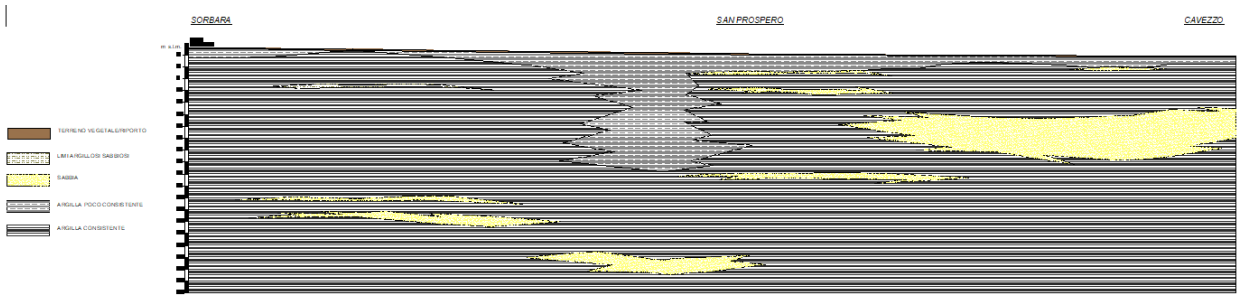
Ambiente vulcanico	
Colate/spandimenti/cupole/domi/dicchi/coni lavici	la
Coni scorie/ceneri	sc
Coltri ignimbritiche	ig
Lahar (colate di fango)	lh
Ambiente di versante	
Falda detritica	fd
Conoide detritica	cd
Conoide di deiezione	cz
Eluvi/colluvi	ec
Ambiente fluvio - lacustre	
Argine/barre/canali	es
Piana deltizia	dl
Piana pedemontana	pd
Bacino (piana) intramontano	in
Conoide alluvionale	ca
Terrazzo fluviale	tf
Varve	va
Lacustre	lc
Palustre	pa
Piana inondabile	pi
Ambiente carsico	
Riempimento di dolina/*karren*/vaschetta/*sinkhole*	do
Forme costruite presso sorgenti	so
Forme costruite in canyon carsici	cy
Croste calcaree	cc
Ambiente glaciale	
Morena	mr
Deposito fluvio glaciale	fg
Deposito lacustre glaciale	fl
Till	ti
Ambiente eolico	
Duna eolica	de
Loess	ls
Ambiente costiero	
Spiaggia	sp
Duna costiera	dc
Cordone litoraneo	cl
Terrazzo marino	tm
Palude/laguna/stagno/lago costiero	pl
Altro ambiente	zz

3.2 Inquadramento geomorfologico

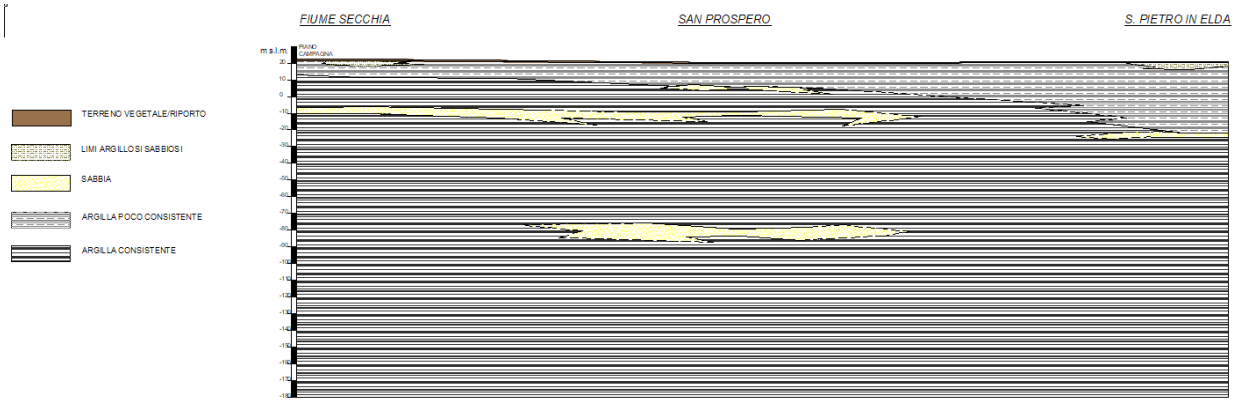
Il territorio comunale è compreso tra il F. Secchia che individua il confine comunale ad ovest ed il F. Panaro ad est. Come precedentemente descritto la superficie comunale appartiene prevalentemente alla media-bassa pianura padana costituitesi tra l'area dei coni alluvionati pedeappenninici e la zona dominio del Po.
Nel contesto dei territori di pianura, formati essenzialmente dalle evoluzioni degli assi fluviali, assume un significato principale l'individuazione delle testimonianze delle preesistenti zone occupate da percorsi fluviali, poiché esse sono caratterizzate dalla presenza, nei primi 5 ÷ 10 m del sottosuolo, di alternanze prevalentemente sabbiose e limo-sabbiose, che possono essere suscettibili di rischio di liquefazione, oltre agli ambiti di sedimentazione lenta e soggetti a periodiche esondazioni, quali le valli di pianura,
costituite nei primi 5 – 10 m dal piano campagna da successioni limoso argillose e argilloso limose contenenti a luoghi strati a bassa consistenza soggetti a sensibili cedimenti di tipo differenziale.
In particolar modo, come si evince anche dalle sezioni geologiche di dettaglio sotto riportate, la successione litostratigrafica è costituita da depositi alluvionali di spessore variabile, da circa 150 m a nord a circa 200 m a sud, su un substrato costituito da alternanze di marne e sabbie, riferibili alle Argille Azzurre del Pliocene-Pleistocene inferiore e alle Sabbie di Imola del Pleistocene medio (RER-ENI, 1998).
Le stratigrafie dedotte dai sondaggi eseguiti sia sul territorio comunale che in prossimità di esso evidenziano depositi alluvionali costituiti da alternanze di sedimenti fini argilloso-limosi, talora con orizzonti torbosi e orizzonti sabbiosi (sabbie da medie a fini, sabbie limose) in particolar modo nella zona ovest in prossimità del confine comunale ; sabbie con ciottoli sono state incontrate nella parte inferiore della successione alluvionale (AEI), in sondaggi profondi che hanno raggiunto il substrato a circa 170-180 m a sud del centro abitato del capoluogo comunale. Tali depositi sono prevalentemente dovuti alla sedimentazione del fiume Po, che nel Pleistocene scorreva più a sud del corso attuale; la parte superiore della successione, di età olocenica, e invece il risultato della sedimentazione dei fiumi appenninici Secchia e Panaro, affluenti di destra del Po.

Tracce delle sezioni geologiche

SEZIONE 01



SEZIONE 02



Le sezioni geologiche sono riportate nella opportuna tavola.

4. DATI GEOTECNICI E GEOFISICI

4.1 Dati Geotecnici

Al fine di caratterizzare dal punto di vista litotecnico i terreni di copertura ed il substrato geologico è stato necessario reperire tutte le informazioni di carattere geologico in possesso all'amministrazione comunale; a tal proposito è opportuno sottolineare come la banca dati del comune sia piuttosto ricca di informazioni con una buona diffusione areale su tutto il territorio comunale.
Sulla base del materiale fornito dall'amministrazione, è stata effettuata una selezione dei documenti tenendo conto dell'attendibilità del dato.
Sono state considerate pertanto i carotaggi di tipo continuo realizzati per pozzi, prove penetrometriche. In sintesi tra le indagini sono stati selezionati complessivamente:

- 1 sondaggio stratigrafico meccanico a distruzione di nucleo per realizzazione pozzo industriale;
- 165 prove penetrometriche statiche meccaniche (CPTm);
- 13 prove penetrometriche statiche con piezocono (CPTu);
- 1 prova dilatometrica con dilatometro piatto Marchetti (DTM);
- Indagini di laboratorio.

Come si può vedere dalle prove sopra selezionate mancano prove di laboratorio di caratterizzazione dei parametri dinamici dei materiali.

4.1.1 Prove penetrometriche con punta meccanica (CPTm)

Sono state reperite 165 prove penetrometriche statiche con punta meccanica. Le indagini sono state eseguite utilizzando un penetrometro Pagani TG-63 da 200 Kn e da 100 Kn.
Ciascuna prova è consistita nella misura della resistenza alla penetrazione di una punta di tipo Begemann di dimensioni e caratteristiche standardizzate infissa nel terreno a velocita costante (V = 2 cm/s ± 0.5 cm/s). Durante l'avanzamento della punta vengono misurati la resistenza alla penetrazione della punta (q_c) e l'attrito laterale (f_s). La prova consisterà di un avanzamento di 4 cm del solo cono con spinta delle aste interne e misura di q_c, seguito dall'avanzamento di 4 cm del cono e del manicotto e misura di f_s ed infine avanzamento di 12 cm dell'intera punta per ritornare alla posizione iniziale, senza nessuna misura.
Nei diagrammi sono riportati i valori i valori della resistenza alla penetrazione della punta meccanica (Rp) in MPa, i valori della resistenza laterale specifica (Rl), in MPa ed i valori del rapporto delle resistenze Rp/Rl.

4.1.2 Prove penetrometriche con punta elettrica e piezocono (CPTu)

Sono state eseguite 13 prove penetrometriche statiche con punta elettrica e piezocono. Le indagini sono state eseguite utilizzando un penetrometro Pagani TG-63 da 200 Kn e da 100 Kn.
Ciascuna prova è consistita nella misura della resistenza alla penetrazione di una punta elettrica dotata di piezocono, di dimensioni e caratteristiche standardizzate, infissa nel terreno a velocita costante (V = 2 cm/s ± 0.5 cm/s). La penetrazione avviene attraverso un dispositivo di spinta, che agisce su una batteria di aste (aste cave con il cavo di trasmissione dati all'interno), alla cui estremità inferiore è collegata la punta con piezocono.
Lo sforzo necessario per l'infissione viene determinato a mezzo di un opportuno sistema di misura estensimetrico collegato alla punta ed al manicotto dell'attrito laterale, e da un trasduttore di pressione per la misura della pressione interstiziale dei pori, cioè il carico idraulico istantaneo presente nell'intorno della punta, attraverso un setto poroso opportunamente saturato e disareato.
I dati delle resistenze alla punta, al manicotto laterale, della pressione dei pori e dell'inclinazione della punta vengono registrate su supporti magnetici e successivamente elaborati.

Nei diagrammi e nelle tabelle riportati in allegato sono riportati i seguenti valori di resistenza (rilevati dalle letture di campagna, durante l'infissione dello strumento):
- qc (MPa) = resistenza alla punta (conica);
- fs (kPa) = resistenza laterale (manicotto);
- U (kPa) = pressione dei pori (setto poroso);

4.1.3. Prova dilatometrica con dilatometro piatto Marchetti DMT

Il dilatometro piatto (DMT) è una lama di acciaio avente dimensioni 95 × 200 × 15 mm, con il bordo inferiore affilato. Su di un lato dello strumento è montata una membrana metallica circolare espandibile. La prova consiste nell'infiggere verticalmente la lama nel terreno mediante spinta statica, agendo su una batteria di aste, espandendo la membrana con gas in pressione e misurando le pressioni corrispondenti a due livelli di deformazione predeterminati della membrana. La lama viene fatta avanzare nel terreno per mezzo di attrezzature di uso comune, ad esempio attrezzature di spinta normalmente utilizzate per la prova penetrometrica a punta conica (CPT) o per sondaggi. Le aste di spinta trasferiscono la forza di penetrazione alla lama.
La lama è collegata a una centralina di misura in superficie per mezzo di un cavo elettropneumatico (che trasmette pressione di gas e continuità elettrica) passante all'interno delle aste di spinta. Una bombola di gas, collegata alla centralina di misura per mezzo di un cavo pneumatico, costituisce la sorgente di gas necessaria per

espandere la membrana. La centralina di misura è dotata di un regolatore di pressione, di manometri, di un segnalatore audiovisivo e di valvole di sfiato.
Il dilatometro sarà spinto verticalmente nel terreno arrestando la penetrazione ad intervalli di 20 cm per l'esecuzione delle misure. Durante l'infissione il segnale acustico (o audiovisivo) sarà sempre attivato e la valvola di sfiato dovrà essere aperta.
Raggiunta la quota di prova, si arresta l'infissione e si scarica la spinta sulle aste. Immediatamente dopo l'arresto della penetrazione si invia gas alla membrana misurando, tramite la centralina elettro-pneumatica di superficie:
• la pressione alla quale si ha il distacco della membrana (lettura A - il segnale cessa), da rilevarsi 15 sec dall'arresto della penetrazione;
• la pressione necessaria per espandere di 1.1 mm il centro della membrana (lettura B - il segnale si riattiva), da rilevarsi a circa 15 sec dalla lettura A.
Se richiesto, verrà anche misurato ed annotato il valore C della pressione che agisce sulla membrana quando, durante lo scarico del gas (dapprima immesso per ottenere le letture A e B), la membrana si richiude sulla posizione A di riposo riattivando il segnale acustico. Il tempo di scarico deve essere di circa 30 sec.
Qualora la natura del terreno impedisca l'infissione del dilatometro fino alla profondità prefissata, si devono estrarre aste e dilatometro, si deve eseguire un preforo di diametro adeguato (es. 100 mm) fino alla profondità prescritta, quindi si reimmette il dilatometro per proseguire la prova.
Le formule base per l'elaborazione dei dati DMT e le principali correlazioni sono riassunte nella tabella sottostante.

SIMBOLO	DESCRIZIONE	FORMULE BASE DI ELABORAZIONE DMT		
p_0	Prima Lettura Corretta	$p_0 = 1.05\,(A - Z_M + \Delta A) - 0.05\,(B - Z_M - \Delta B)$		Z_M = Lettura al manometro quando "aperto" all'atm. Se ΔA, ΔB sono misurate con lo stesso manometro usato per le letture A, B correnti, porre $Z_M = 0$ (Z_M e compensata)
p_1	Seconda Lettura Corretta	$p_1 = B - Z_M - \Delta B$		
I_D	Indice di Materiale	$I_D = (p_1 - p_0)/(p_0 - u_0)$		u_0 = pressione neutra pre-inserimento
K_D	Indice di Spinta Orizzontale	$K_D = (p_0 - u_0)/\sigma'_{v0}$		σ'_{v0} = tensione geostatica pre-inserimento
E_D	Modulo Dilatometrico	$E_D = 34.7\,(p_1 - p_0)$		E_D NON è un modulo di Young E. E_D deve essere usato solo DOPO averlo combinato con K_D (Storia Tensionale). Prima ricavare $M_{DMT} = R_M E_D$, poi ad es. $E \approx 0.8\, M_{DMT}$
K_0	Coeff. Spinta Orizz. in Sito	$K_{0,DMT} = (K_D/1.5)^{0.47} - 0.6$		per $I_D \leftarrow 1.2$
OCR	Rapp. di Sovraconsolidazione	$OCR_{DMT} = (0.5\,K_D)^{1.56}$		per $I_D \leftarrow 1.2$
c_u	Res. al Taglio Non Drenata	$c_{u,DMT} = 0.22\,\sigma'_{v0}\,(0.5\,K_D)^{1.25}$		per $I_D \leftarrow 1.2$
Φ'	Angolo di Resistenza al Taglio	$\Phi_{safe,DMT} = 28° + 14.6° \log K_D - 2.1° \log^2 K_D$		per $I_D \rightarrow 1.8$
c_h	Coeff. di Consolidazione	$c_{h,DMTA} \approx 7\ cm^2/t_{flex}$		t_{flex} da curva di decadimento A-log t da DMTA
k_h	Coeff. di Permeabilità	$k_h = c_h \gamma_w / M_h$ ($M_h \approx K_0 M_{DMT}$)		
γ	Peso di Volume	(vedi grafico in TC16 2001)		
M	Modulo Verticale Drenato Confinato	$M_{DMT} = R_M E_D$		
		se $I_D \not\leq 0.6$	$R_M = 0.14 + 2.36 \log K_D$	
		se $I_D \not\geq 3$	$R_M = 0.5 + 2 \log K_D$	
		se $0.6 \leftarrow I_D \leftarrow 3$	$R_M = R_{M,0} + (2.5 - R_{M,0}) \log K_D$ con $R_{M,0} = 0.14 + 0.15\,(I_D - 0.6)$	
		se $K_D \rightarrow 10$	$R_M = 0.32 + 2.18 \log K_D$	
		se $R_M \leftarrow 0.85$	porre $R_M = 0.85$	
u_0	Pressione Neutra di Equilibrio	$u_0 = p_2 = C - Z_M + \Delta A$		In terreni drenanti

Le letture di pressione *A, B* devono essere corrette per mezzo dei valori ΔA, ΔB determinati mediante calibrazione, per tenere conto della rigidezza della membrana, e convertite in $p0$, $p1$.
I due valori di pressione determinati *p0 e p1* vengono elaborati ottenendo tre "parametri indice":
ID Indice di Materiale
KD Indice di Spinta Orizzontale
ED Modulo Dilatometrico
Dai parametri indice *ID, KD, ED,* applicando le correlazioni usuali (TC 16 2001), vengono ricavati i parametri:
M Modulo edometrico (terreni sia coesivi che incoerenti)
Cu Resistenza al taglio non drenata (terreni coesivi)
Ko Coefficiente di spinta a riposo (terreni coesivi)
OCR Rapporto di sovraconsolidazione (terreni coesivi)
Φ' Angolo di resistenza al taglio (terreni incoerenti)

4.1.4. Indagini di laboratorio

Nell'ambito dello studio in oggetto non sono state eseguite indagini di laboratorio finalizzate alla caratterizzazione geotecnica e sismica dei terreni. Ad ogni modo il Servizio Geologico, Sismico e dei Suoli della Regione Emilia-Romagna ha messo a disposizione allo scrivente le analisi ottenute su 5 campioni indisturbati di terreno prelevati a profondità variabile tra 4 e 12 m nel comune limitrofo di Cavezzo, su cui sono state eseguite prove di laboratorio finalizzate alla caratterizzazione fisica e meccanica dei terreni tra cui prove di colonna risonante, taglio semplice ciclico, analisi granulometriche e determinazione dei Limiti di Atterberg. Per tali campioni sono fornite curve di degradazione del modulo di taglio e dello smorzamento dei materiali.

4.1.4a. Prove di Colonna Risonante

Gli obiettivi delle prove di colonna risonante (RC) effettuate sono: determinare il modulo di taglio ed il rapporto di smorzamento iniziali (G_0, D_0), ovvero a piccoli livelli deformativi; ricavare le leggi di variazione con la deformazione tangenziale, γ, del modulo di taglio, $G(\gamma)$ e del rapporto di smorzamento, $D(\gamma)$.
Le prove in colonna risonante sono regolamentate dallo standard ASTM D 4015.
Nel corso di prove di RC vengono misurate la frequenza di risonanza e la rotazione del provino. Dal valore della prima grandezza è possibile risalire alla velocità di propagazione delle onde di taglio e quindi al modulo G; dalla misura delle rotazioni del provino si ricava la deformazione tangenziale, γ. Poiché la prova di RC opera alle

frequenze proprie di un provino cilindrico, le frequenze di prova risulteranno relativamente alte (10 ÷ 100Hz).
Durante le prove di RC viene generato un segnale elettrico sinusoidale, mediante un generatore di funzioni ed un amplificatore di potenza, che è possibile far variare in ampiezza e frequenza. Il segnale elettrico, V(t),è trasformato in sollecitazione meccanica torsionale, Mt(t), da un motore elettromagnetico solidale alla testa del provino mediante una piastra, *drive plate*. La frequenza di eccitazione viene fatta variare finché il sistema non raggiunge la condizione di risonanza. Quest'ultima può essere individuata come quel valore della frequenza in corrispondenza del quale si ha: angolo di fase tra eccitazione torsionale e rotazione del sistema pari a π/2 e massima ampiezza della risposta.
In condizioni di risonanza esiste una relazione fra la velocità di propagazione delle onde di taglio, Vs, e la frequenza fondamentale, *f*n, del tipo Vs = f(*f*n, h) dove: h è l'altezza del provino e f una funzione che dipende dalle condizioni di vincolo del provino. Poiché al variare della frequenza varia la risposta del provino (valutata sia in termini di accelerazione che di rotazione) e poiché la frequenza fondamentale è quella in corrispondenza della quale la risposta è massima, disponendo sul provino un accelerometro, è possibile identificare la condizione di risonanza relativamente al primo modo di vibrazione. Nota la densità del provino si può risalire al modulo di taglio, G, attraverso la già citata relazione G = ρVS 2. Mediante l'apparecchiatura di RC è possibile determinare il rapporto di smorzamento D, agendo in due modi, o considerando il fattore di amplificazione in risonanza (*steady state method*), oppure, interrompendo l'eccitazione e misurando il decadimento delle oscillazioni libere (*amplitude decay method*).
I risultati sperimentali ottenuti nel corso di prove RC vengono interpretati facendo riferimento alla teoria di propagazione delle onde di taglio in un mezzo elastico lineare per determinare il modulo di taglio G, oppure, alla teoria delle oscillazioni libere, o forzate, in un mezzo elasto-plastico per determinare il rapporto di smorzamento D.

4.2 Dati Geofisici

Dal punto di vista geofisico le prove che sono state sia reperite che effettuate sono prove in foro e di superficie.
Le prove di superficie reperite ed effettuate sono prove sia di sismica attiva (quindi con generazione di sorgente sismica artificiale) che di sismica passiva (quindi con analisi naturale del tremore ambientale). Le prove inoltre sono state effettuate sia a stazione singola che in stendimento lineare ("array sismico").
In sintesi tra le indagini sono stati selezionate complessivamente:

- Indagini geofisiche in foro:
    - 2 prove con cono sismico SCPT

- Indagini geofisiche di superficie:

- 85 prospezioni simiche attive con metodo MASW in onde Rayleigh (array sismico 1D con geofoni verticali con analisi della componente verticale dell'onda di Rayleigh);
- 3 prospezioni simiche passive con metodo ReMI in onde Rayleigh (array sismico 1D con geofoni verticali con analisi della componente verticale dell'onda di Rayleigh);
- 53 misure di sismica passiva con tecnica a stazione singola con acquisizione di microtremori ambientali con metodo Horizzontal to Vertical Spectral Ratio (HVSR);
- 1 prospezione sismica a rifrazione in onde Sh.

Le indagini di superficie sono state eseguite sempre congiuntamente, al fine di meglio caratterizzare le velocità di propagazione delle onde sismiche di taglio Vs con la profondità e di ridurre l'incertezza interpretativa che deriva dalle analisi di sismica di superficie.
E' infatti abbastanza noto dalla sismica classica che le indagini di tipo passivo caratterizzano meglio il dato in profondità, in quanto sono più performanti a basse frequenze mentre le indagini di tipo attivo risultano performanti alle alte frequenze e quindi caratterizzano gli strati più superficiali del terreno ma il loro potere penetrante decresce abbastanza rapidamente con la profondità. L'analisi congiunta con entrambe le tecniche rappresenta la soluzione ottimale in quanto consente di ottenere informazioni sia superficiali che in profondità sugli strati di terreno investigati e quindi di meglio caratterizzarli dal punto di vista del comportamento sismico.
Nello specifico le indagini hanno consistito nelle acquisizioni di microtremori a stazione singola di tipo HVSR e nella definizione del profilo di Vs mediante analisi attive di tipo MASW e analisi passive di tipo ReMI. I dati ottenuti dalla curva HVSR forniscono utili indicazioni soprattutto per quanto riguarda le frequenze di risonanza e sui fattori di amplificazione sismica dei suoli durante un terremoto mentre attraverso le tecniche attive e passive in array è stato possibile definire l'andamento delle Vs con la profondità e quindi la definizione delle V_S ai fini della determinazione dei fattori di amplificazione.
Dette indagini sono state distribuite sul territorio sia in funzione delle finalità di caratterizzazione sismica dell'urbanizzato che degli ambiti suscettibili di urbanizzazione che delle principali infrastrutture.

4.2.1 Prove con cono sismico (SCPT)

Tali prove hanno lo scopo di determinare i profili di velocità delle onde sismiche di taglio (Vs) contestualmente a quello di determinare i profili della resistenza alla punta (qc), dell'attrito laterale (fs) e della pressione interstiziale(u) nei depositi di terreno..

Rispetto ad una prova DH, la prova SCPT non richiede la perforazione dì un foro di sondaggio ed ha grande rapidità di esecuzione, fornendo un migliore accoppiamento meccanico del ricevitore sismico con il terreno circostante.
L'attrezzatura di misura è composta da un penetrometro con punta elettrica dotato di piezocono su cui risiedono di due inclinometri monoassiali per la determinazione della verticalità. Alle spalle del piezocono è montato il modulo sismico, costituito da un'asta che contiene due geofoni posti alla distanza di 0.5 m tra di loro in grado di misurare le onde di taglio generate da un dispositivo dì energizzazione posto in superficie.
La prova SCPT si svolge contestualmente alla prova penetrometrica statica CPTU. Il passo che si adotterà per le misure dei tempi di percorrenza delle onde sismiche S è costante lungo la verticale di infissione della punta ed è pari a 1 metro. Se durante la fase di penetrazione della sonda si incontreranno strati ghiaiosi o comunque di materiale consistente tali da impedire l'avanzamento del penetrometro, si interromperà prova e si provvederà alla realizzazione di un preforo per l'attraversamento dello strato o degli strati impenetrabili nel sottosuolo. In questo caso le misure di velocità con il cono sismico saranno interrotte e riprese a partire da una distanza dalla base del preforo non inferiore ad 1 m. Per facilitare l'identificazione dell'istante di arrivo delle onde S si utilizzerà la tecnica di inversione della polarità della sorgente sismica. l tempi di percorrenza delle onde sismiche saranno calcolati con tecnica della correlazione incrociata ("cross-correlatlon"), in quanto consente di identificare sui segnali raccolti ai ricevitori lo stesso punto caratteristico in corrispondenza dell'istante di arrivo dell'onda S o P e quindi di calcolare la differenza dei tempi di percorrenza delle rispettive onde. La tecnica di correlazione incrociata fornisce risultati più oggettivi rispetto al solo metodo di identificazione visiva di controllo.

4.2.2 Prove MASW

Il metodo d'indagine consiste nell' acquisizione percuotendo il suolo con una sorgente impulsiva; il segnale sismico viene registrato in n geofoni equidistanziati oppure no rispetto alla sorgente.
La curva di dispersione permette di recuperare un unico modo di propagazione, che è generalmente una sovrapposizione dei modi reali e pertanto è un "modo apparente". Il metodo è dunque valido quando un modo prevale sugli altri. Generalmente l' obiettivo del metodo e che l' informazione contenuta nei dati sia prevalentemente quella del modo fondamentale. In pratica ciò avviene in genere per frequenze inferiori a 10-20 Hz. Tenuto conto che ad es. in terreni sciolti come quelli di pianura la velocita VS e di circa 200 m/s e che quindi la lunghezza d' onda e di almeno 10 m, l' inversione da risultati incerti, se non scorretti, per la parte più superficiale della sezione. Poiche inoltre la profondità d' indagine e strettamente legata alla lunghezza d'onda e questa, per forza di cose, alla distanza tra i due geofoni.

Purtroppo le onde di Rayleigh sono multimodali, nel senso che la funzione velocità di fase in funzione della frequenza non è monodroma. Questa informazione completa si ottiene su spettri che hanno massimi distribuiti su più modi di propagazione, e solo utilizzando un numero adeguatamente alto di geofoni lungo un profilo che, per profondità d' indagine dell' ordine di 15 m, può essere lungo anche 50 m.
La conseguente trasformata doppia di Fourier (dominio f-k) fornisce vari massimi spettrali, ciascuno corrispondente a un modo di propagazione. Questi massimi spettrali si collocano a frequenze diverse, occupando tutto lo spettro. La velocita di fase viene ottenuta applicando la formula: $vR = f/k$.

4.2.3 Prove ReMI

La necessità di disporre di modelli sismostratigrafici profondi (il più accurati possibile), impone di investigare profondità ben superiori ai 30 metri. Questo metodo venne introdotto da Louie (2001), e prevede una disposizione lineare dei geofoni verticali, allo specifico scopo di avere una profondità d'indagine dell' ordine di 30 m, tipica degli studi per la valutazione degli effetti di sito legati alla distribuzione della Vs fino a tale profondità. Come è ormai chiaro, profondità d'indagine superiori possono essere raggiunte solo utilizzando frequenze proprie inferiori. L' acronimo Re.Mi. sta infatti per Refraction Microtremors. Benché il dispositivo di misura sia sostanzialmente uguale a quello delle prove MASW e obbedisca agli stessi parametri di acquisizione, sia in termini di banda di frequenze analizzate che di spaziatura dei geofoni, l' elaborazione dei dati pur dovendo passare per una trasformazione di Fourier (T.F.) avviene in forma sostanzialmente diversa, in quanto in questo caso gli arrivi delle onde di Rayleigh non sono in sequenza crescente con la distanza dalla sorgente, ma casuali. La modifica sostanziale riguarda un' operazione preliminare alla T.F., che viene effettuata sui dati di campagna e chiamata *slant-stack* (ovvero "sovrapposizione obliqua").
Un limite concettuale di questo metodo e costituito dal fatto che soltanto le velocità di onde che si propagano nella direzione del profilo vengono restituite con precisione. mentre tutte le altre direzioni portano a velocità sovrastimate.
Tale tecnica pennette di ottenere il profili verticali (1 D) della velocità media delle onde di taglio "S" anche molto profonde.

4.2.4 Prove HVSR

E già stato dimostrato che quando un' onda elastica che si propaga nel sottosuolo passando da un mezzo con impedenza acustica $Z1 = \rho 1 v1$ (dove ρ è la densità e v la velocita di un' onda di volume - P o S) a un mezzo con impedenza acustica $Z2 = \rho 2 v2$, se $Z2 < Z1$ l' ampiezza dell' onda trasmessa nel secondo mezzo aumenta. Questo fenomeno dipende soltanto dall' angolo d' incidenza e non dalla frequenza per le onde P, quindi tutte le singole componenti sinusoidali dell' onda vengono amplificate nella stessa

misura. Per le onde S si dimostra che ha luogo anche un fenomeno di risonanza. Dato un sottosuolo formato da una copertura omogenea elastica di spessore h poggiante su un substrato rigido (nella pratica un substrato e considerato rigido
quando la sua VS supera 800 m/s), tali frequenze di risonanza sono date da (Lanzo e Silvestri, 1999):

$$f_n = \frac{V_{2S}(2n-1)}{4h}, n = 1,2,...\infty$$

Poiché sia le onde di Love che la componente orizzontale delle onde di Rayleigh si formano per interferenza costruttiva delle onde S, quanto detto vale con ottima approssimazione anche per tali onde, purché il sottosuolo sia tabulare, cioè a strati piano/paralleli. Questa e una circostanza particolarmente fortunata, perché significa che basta registrare il rumore sismico ambientale, dove e ampiamente prevalente l' energia associata alle onde superficiali, per avere un' informazione precisa (nei limiti summenzionati) delle frequenze di risonanza. Questa infatti si ottiene con 3 "semplici" passaggi:
1. registrando in un punto per un certo tempo (anche meno di un' ora) le 3 componenti del moto delle particelle del terreno (la verticale z(t) e due orizzontali ortogonali tra loro: x(t), y(t)) con un sismometro a frequenza propria inferiore al campo di frequenze di interesse (in genere basta che tale frequenza sia inferiore a 1 Hz, essendo le frequenze proprie dei manufatti intorno a 1 Hz o di poco superiori);
2. calcolandone i rispettivi spettri di Fourier Z(f), X(f) e Y(f);
3. facendo il rapporto, detto per l' appunto HVSR, acronimo di Horizontal over Vertical Signal Ratio:

$$\frac{\sqrt{|X(f)|^2 + |Y(f)|^2}}{|Z(f)|}$$

Il primo lavoro fondamentale su questa specifica procedura fu pubblicato da Nogoshi e Igarashi nel 1971, ma Nakamura lo riprese nel 1989 con maggiore fortuna; per questo motivo è chiamato anche "metodo di Nakamura".

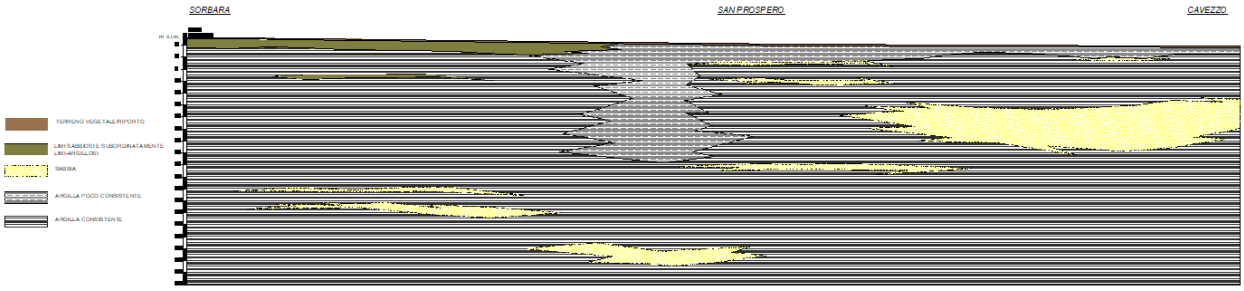
Le indagini sono state georeferenziate in apposito elaborato cartografico in scala 1:10.000 comprensivo dell'intero territorio comunale.

5. MODELLO DEL SOTTOSUOLO

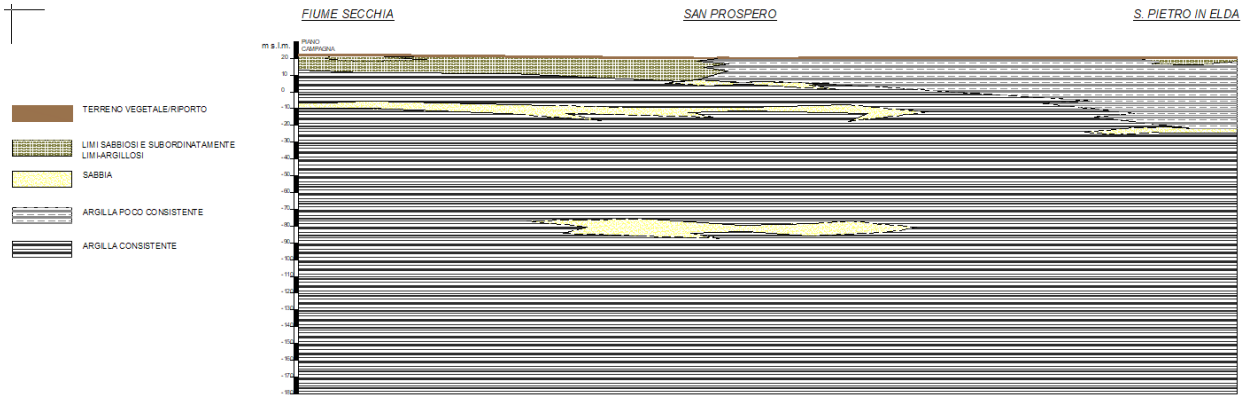
La costruzione della "Carta geologico tecnica per la microzonazione sismica" ha riportato tutte le informazioni di base (geologia, geomorfologia, caratteristiche litotecniche, geotecniche ed idrogeologiche) derivate da informazioni esistenti desunte dalla banca dati della Regione Emilia-Romagna ed in possesso del Servizio Geologico Regionale, da ulteriori studi effettuati a livello del territorio comunale in fase di formazione dei vari piani urbanistici comunali e dal presente studio.
Questi dati sono stati necessari alla definizione del modello di sottosuolo per l'intero territorio comunale e propedeutici per la definizione in chiave sismica degli effetti attesi al suolo. Al fine di valutare la risposta sismica è necessario definire un modello delle velocita delle onde sismiche che sia sufficientemente accurato da rivelare variazioni significative dei fattori di amplificazione nell'area.
Il modello creato è stato costruito integrando dati provenienti dalle perforazioni realizzate per pozzi ad uso industriale e per acqua ed integrati con i dati geofisici di foro e superficie attivi e passivi.
Le sezioni geologiche evidenziano che il sottosuolo di San Prospero s/S e costituito da depositi alluvionali su un substrato marino immergente verso sud e che la successione alluvionale è costituita da varie unità stratigrafiche, dovute a cicli deposizionali differenti, con grado di deformazione che aumenta con la profondità-
Le superfici che delimitano le unità litostratigrafiche presenti sono superfici di discontinuità stratigrafica. Tali superfici, dal punto di vista della possibile amplificazione sismica locale, influenzano il moto sismico delle onde elastiche in superficie pertanto si è provato a ricostruire la corretta successione stratigrafica fino alla profondità al di sotto della quale i sedimenti hanno comportamento rigido (bedrock sismico).
Dall'analisi dei risultati della campagna di acquisizione di microtremori ambientali a stazione singola sul territorio comunale si evidenzia che le frequenze variano da circa 0,8-0,9 Hz nella parte settentrionale a circa 0,7-0,6 Hz nella parte meridionale. Per quanto riguarda l' ampiezza dei picchi H/V risultano generalmente più elevati nella fascia settentrionale del territorio comunale. I dati strumentali di cui sopra confermano che la principale superficie di discontinuità sismostratigrafica (bedrock sismico) risulta ad una profondità di circa 150-160 m nella zona nord del comune e tende ad approfondirsi verso sud fino a 180-200m, in accordo con l'assetto tettonico dei questa porzione di pianura padana.
Si riportano di seguito la planimetria e le sezioni geologiche ricavate:

Tracce delle sezioni geologiche

SEZIONE 01



SEZIONE 02



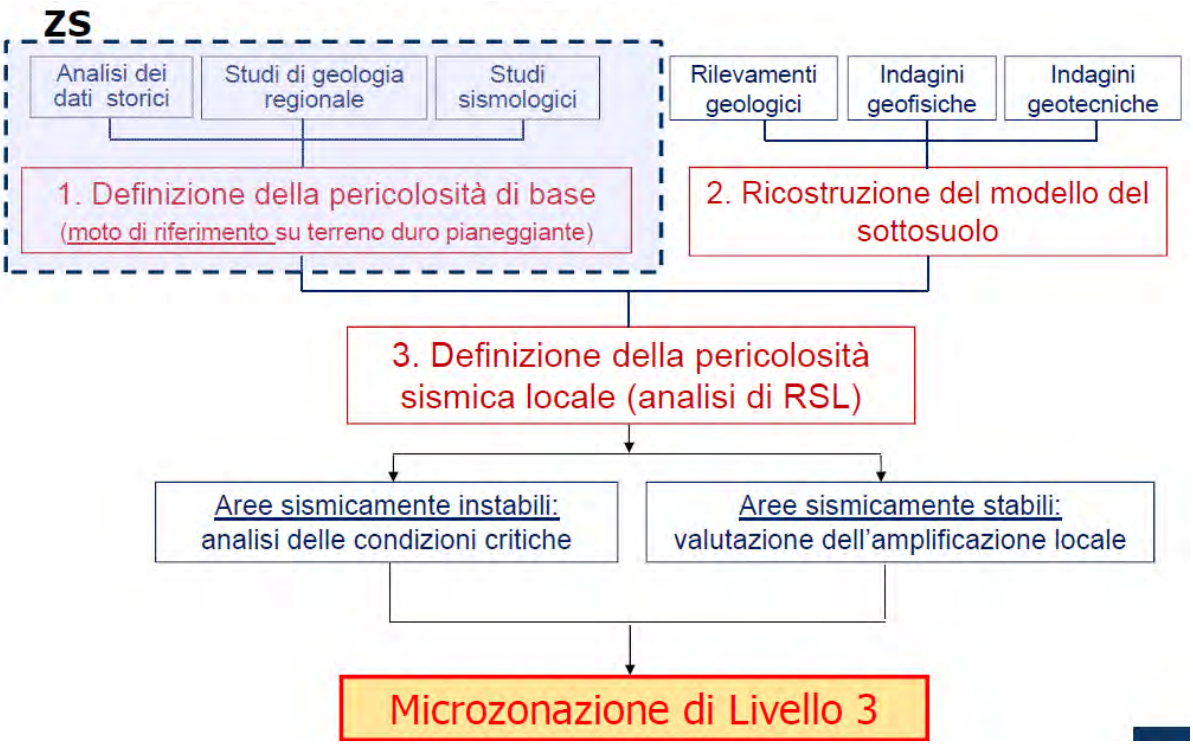
6. INTERPRETAZIONI ED INCERTEZZE

Per quanto riguarda la diffusione delle indagini sull'intero territorio comunale è possibile affermare, sia sulla base delle indagini pregresse che di quelle nuove realizzate ad hoc per lo studio in essere ci sia una buona corrispondenza con la situazione reale.

7. METODOLOGIE DI ELABORAZIONE E RISULTATI

7.1. Premessa

Lo studio di microzonazione sismica di III livello per il comune di San Prospero s/S è stato realizzato secondo le seguenti fasi:



In particolar modo lo studio si è focalizzato sui seguenti elementi chiave:

1. Scelta dell'input sismico
2. Definizione del modello di sottosuolo
3. Implementazione del modello e analisi numeriche
4. Interpretazione dei risultati e rappresentazione in mappe

Per il modello di sottosuolo individuato nel capitolo 5 è stato effettuato lo studio dell'analisi di risposta simica locale (RSL) finalizzata alla valutazione dell'azione sismica in superficie.
Dal punto di vista strettamente fisico, per analisi di risposta sismica locale si intende la valutazione quantitativa delle modifiche in ampiezza, durata e contenuto in frequenza subite da un moto sismico, relativo ad una formazione rocciosa di base (R), attraversando gli strati di terreno sovrastanti fino alla superficie (S).

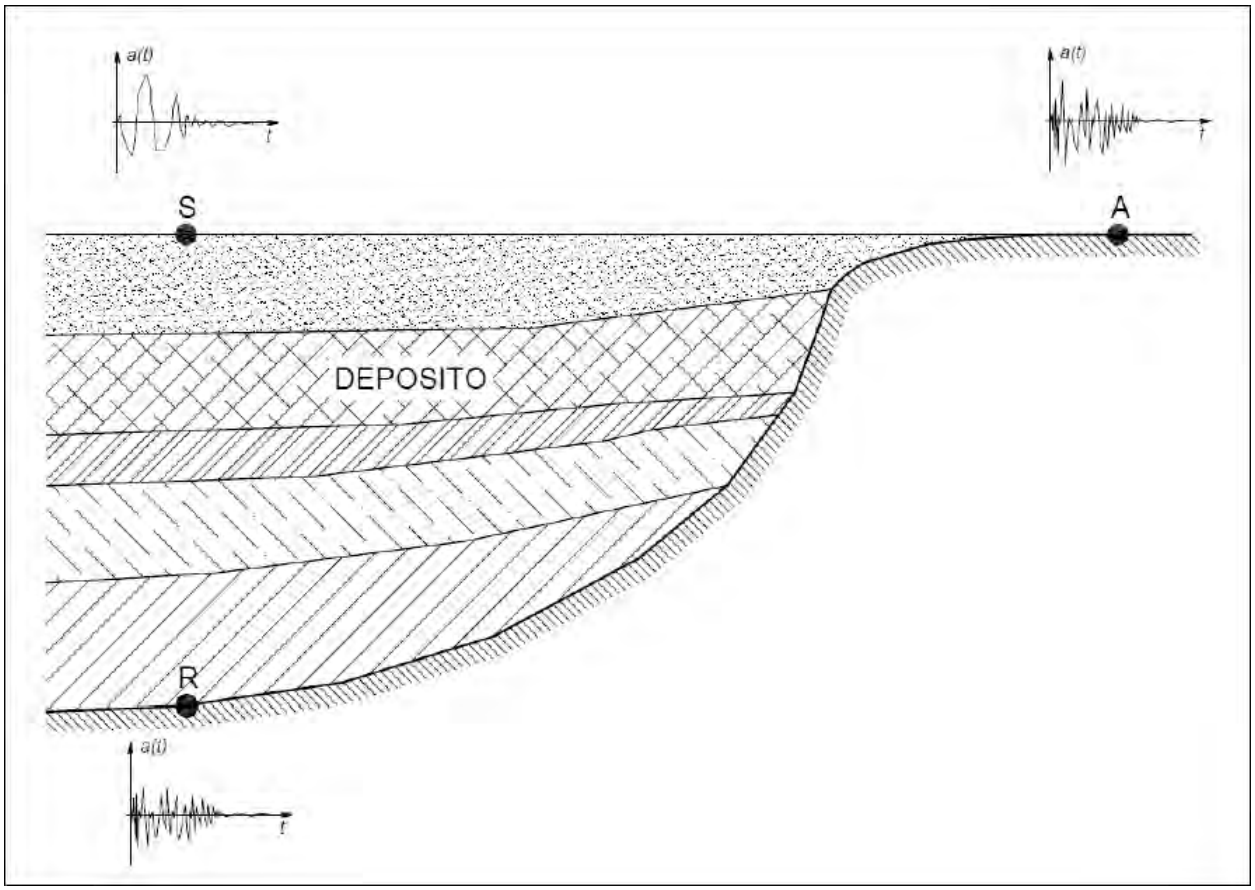


Figura 6.1: Schema di riferimento per la valutazione della risposta sismica locale.

Dal punto di vista tecnico, è forse più significativa una valutazione alternativa di tale fenomeno, cioè quella che assume come moto sismico di riferimento quello relativo ad un ipotetico (o reale) affioramento della formazione rocciosa di base (A). La valutazione quantitativa della risposta sismica locale può quindi effettuarsi sulla base del confronto tra le diverse grandezze rappresentative del moto sismico alla superficie del terreno e quello di riferimento (roccia di base o affiorante), nel dominio del tempo o delle frequenze. Nel dominio del tempo un parametro spesso utilizzato è il fattore di amplificazione:

$$FA = \frac{a_{max,S}}{a_{max,A}}$$

dove $amax,S$ rappresenta l'accelerazione massima registrata sulla superficie del deposito e $amax,A$ l'accelerazione massima sulla roccia affiorante. Tale fattore può risultare maggiore o minore dell'unità identificando un effetto di amplificazione o di smorzamento. Il fattore di amplificazione così definito però ha il limite di non descrivere l'effetto di "filtraggio" esercitato dal deposito nei confronti del moto sismico di

riferimento, ma si limita a descriverne soltanto gli effetti di amplificazione in termini di ampiezza. Operando nel dominio delle frequenze, un parametro spesso utilizzato ed in grado di superare i limiti del fattore di amplificazione è la cosiddetta funzione di trasferimento:

$$H(f) = \frac{F_S(f)}{F_A(f)}$$

dove $F_S(f)$ ed $F_A(f)$ sono entrambe funzioni complesse della frequenza e rappresentano rispettivamente lo spettro di Fourier del moto in superficie al deposito e lo spettro di Fourier del moto su roccia affiorante. Entrambe i termini del rapporto sono funzioni complesse e pertanto anche il loro rapporto (funzione di trasferimento) risulta una funzione complessa; è utile far riferimento al modulo di tale funzione (spettro di ampiezza) detto *funzione di amplificazione*:

$$A(f) = |H(f)|$$

Dal punto di vista fisico tale funzione è in grado di indicare quali componenti del moto sismico (in termini di frequenza), rispetto al moto di riferimento, sono state amplificate ed in che rapporto e quali componenti sono state smorzate. Tuttavia, è necessario osservare che è lecito applicare il principio di sovrapposizione degli effetti, e quindi le trasformate di Fourier, solo se la risposta meccanica del terreno è governata da leggi costitutive di tipo lineare. In tali ipotesi, la funzione di amplificazione è una proprietà della geometria del sito e delle caratteristiche meccaniche dei materiali che lo costituiscono.
Operando nel dominio delle frequenze, nota la funzione di trasferimento, è possibile ottenere, mediante un'operazione detta di *convoluzione*, il moto in superficie a partire dal moto di riferimento.

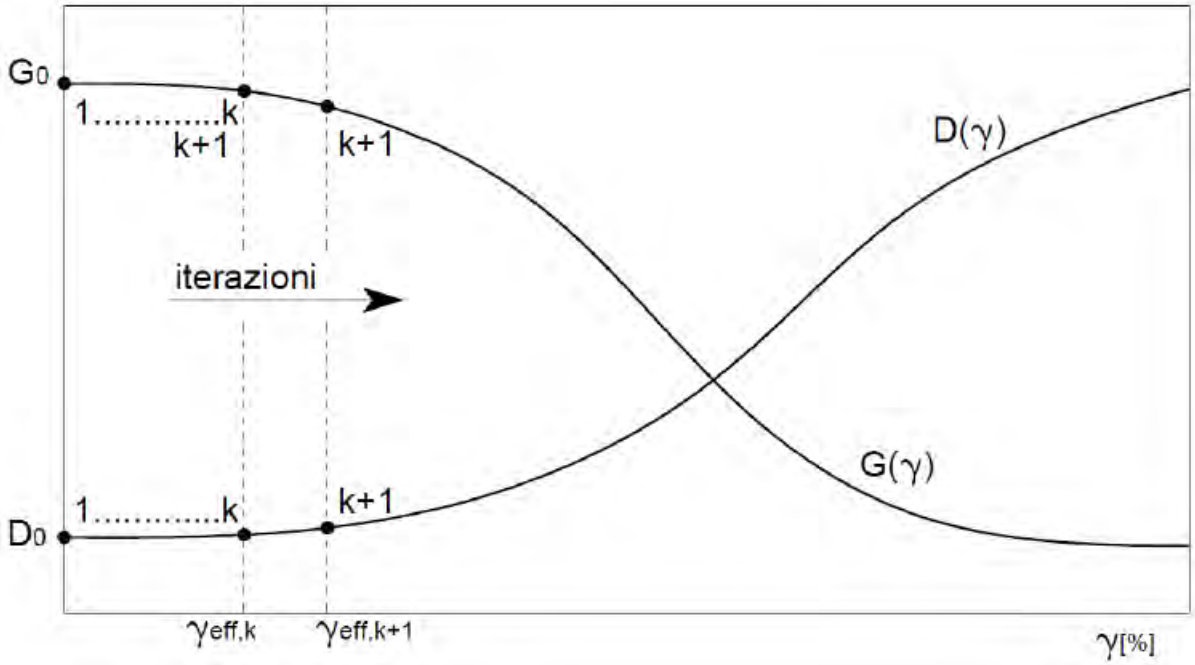
$$F_S(f) = H(f)\, F_A(f)$$

Questo significa che il moto in superficie ottenuto è fortemente condizionato dal contenuto in frequenza del moto di riferimento, il quale a sua volta è caratterizzato da contenuti in frequenza dipendenti da meccanismo di sorgente, magnitudo e percorso di propagazione. Si osservi inoltre, che la risposta meccanica di un sottosuolo reale non è affatto lineare e pertanto la funzione di trasferimento non può essere univoca, ma dipendente dal livello deformativo raggiunto dal terreno e quindi dalle caratteristiche del moto sismico che lo attraversa. In altre parole, se l'energia del moto sismico che attraversa il deposito è bassa, il livello deformativo raggiunto sarà lieve e viceversa se l'energia del moto è elevata; nei due casi le funzioni di trasferimento risultano differenti.

Pertanto, dovendo tener conto del comportamento non lineare del terreno, oltre che di aspetti legati alla topografia o alla morfologia sepolta, nei casi pratici è necessario ricorrere a delle procedure numeriche. Le possibili procedure utilizzate per tener conto del legame costitutivo non lineare nella soluzione dell'equilibrio dinamico del sistema di equazioni si distinguono in:
- *Analisi lineare equivalente* che consiste nell'esecuzione di una serie di analisi lineari complete che utilizzano dei parametri di rigidezza e smorzamento secanti dei materiali, i quali vengono aggiornati fino al soddisfacimento di un certo criterio di convergenza;
- *Analisi non lineare incrementale* che consiste nell'integrazione passo-passo delle equazioni del moto ottenute nel rispetto dei legami costitutivi non lineari del terreno.

Mentre il primo schema di analisi si presta ad una soluzione sia nel dominio del tempo che nel dominio delle frequenze, il secondo schema di analisi ricerca necessariamente la soluzione nel domino del tempo, vista l'impossibilità di applicare il principio di sovrapposizione degli effetti e quindi l'analisi di Fourier.
Lo schema lineare equivalente e largamente adottato nella pratica professionale in quanto rappresenta il giusto compromesso tra l'accuratezza dei risultati ottenuti e l'onere computazionale. Sono infatti numerosi i codici di calcolo che adottano tale schema indipendentemente che si tratti di un problema monodimensionale, bidimensionale o tridimensionale. L'algoritmo lineare equivalente può essere sintetizzato nei seguenti passi:

- Si assumono dei valori iniziali per i moduli elastici e per i rapporti di smorzamento viscoso dei materiali;
- A partire dal terremoto di riferimento, schematizzato come accelerogramma in ingresso, si integrano le equazioni del moto dinamico in modo da ottenere le deformazioni massime γmax in ogni punto del modello;
- Dalle deformazioni massime si ottengono le deformazioni effettive mediante la relazione $\gamma eff = \beta\ \gamma max$ (β: rapporto di deformazione effettiva dipendente dalla magnitudo dell'evento sismico e variabile tra 0.5 e 0.7);
- Dalle deformazioni effettive, mediante le curve che descrivono la non linearità del terreno (Figura sottostante), vengono ottenuti i valori aggiornati dei moduli di taglio e dei rapporti di smorzamento viscoso;



- Con i valori dei parametri dei materiali così ottenuti si ritorna al punto 2. fintanto che non risulta soddisfatto il seguente criterio di convergenza:

$$\left|\gamma_{eff}{}^{k} - \gamma_{eff}{}^{k-1}\right| \leq toll$$

dove con l'indice k indica la generica iterazione e $toll$ un valore di tolleranza massimo assunto per le deformazioni a taglio.

7.2 Metodologie di elaborazione

L' obiettivo dello studio per questo livello di microzonazione è stato quello della definizione dei fattori di amplificazione come richiesti dalla DG della Regione Emilia-Romagna n. 630/2019 (DGR 630/2019).
Si riporta di seguito l'elenco dei software utilizzati per tutte le elaborazioni effettuate:

- Dati geognostici
CPTe - IT®Geologismiki
Fondazio®GeoDeepDrill Srl

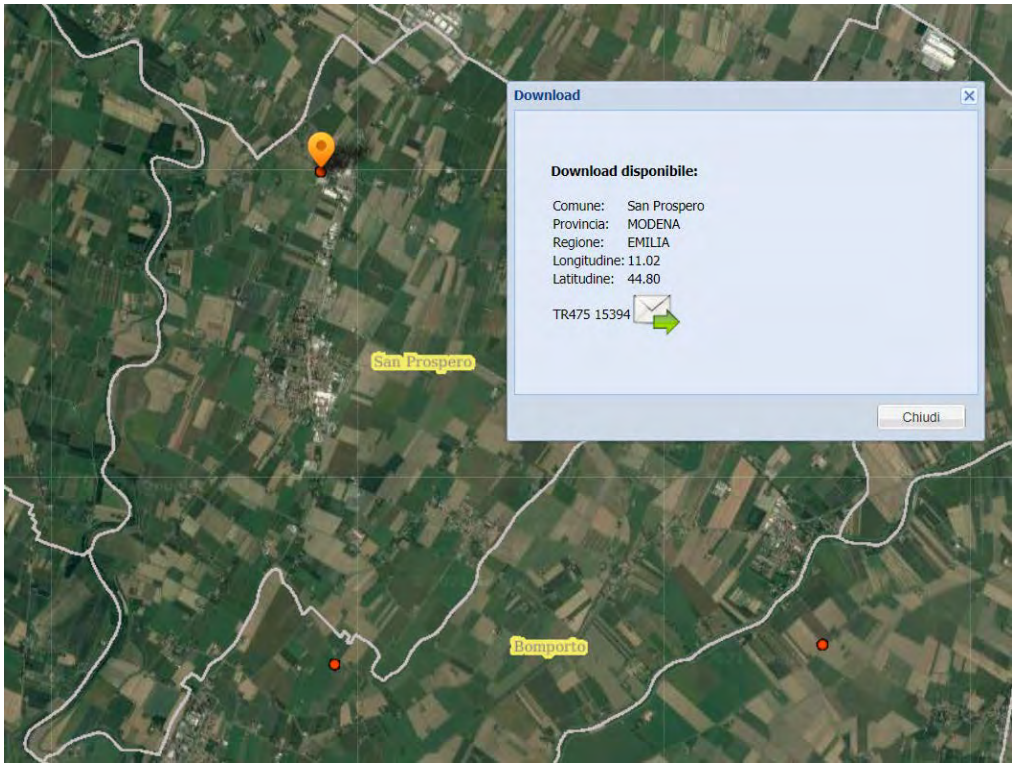
- Dati geofisici
WinMasw Acd 2019®Eliosoft

HoliSurface 2018®Eliosoft
SPAS®Geologismiki

- Elaborazioni numeriche Risposta sismica locale
LSR2D - Stacec Srl

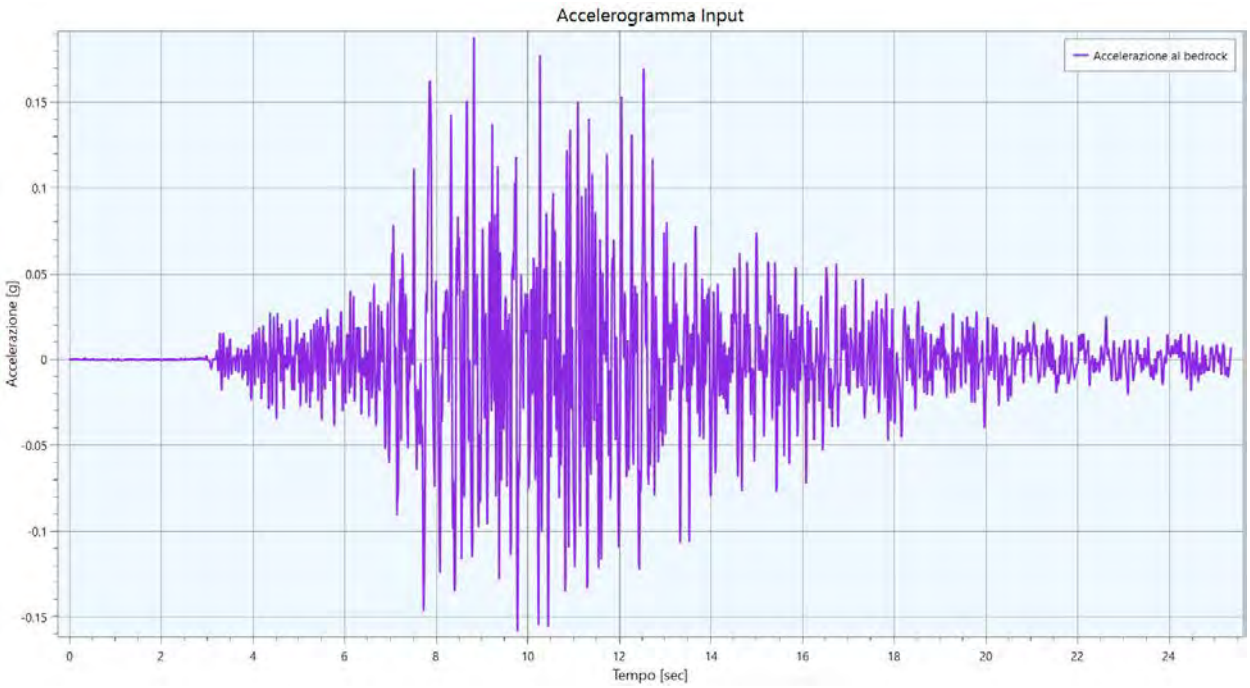
7.3 Definizione del moto di input (scelta delle azioni sismiche)

Sulla base delle indicazioni fornite ai paragrafi 3.2.3.6 e 7.11.3.1 contenute nelle NTC 18 e di quelle contenute in ICMS 2008 si è provveduto ad utilizzare accelerogrammi naturali (il numero minimo che consente di far riferimento ai valori medi dei risultati) selezionati da banche accelerometriche digitali imponendo i criteri di scelta e spettro-compatibilità imposti dalle NTC 18.
Per la selezione delle combinazioni degli accelerogrammi naturali compatibili con gli spettri da normativa si è utilizzato il programma SEISM-HOME, sviluppato da EUCENTRE che permette di ottenere l'input sismico da utilizzare per analisi dinamiche non lineari, per un qualsiasi sito del territorio italiano e per il periodo di ritorno di 475 anni. L'input sismico è definito in termini di un gruppo di sette accelerogrammi reali, registrati su roccia, spettro-compatibili in media agli spettri di normativa definiti nelle NTC18.
Si riporta nella tabella sottostante il set di accelerogrammi utilizzato:

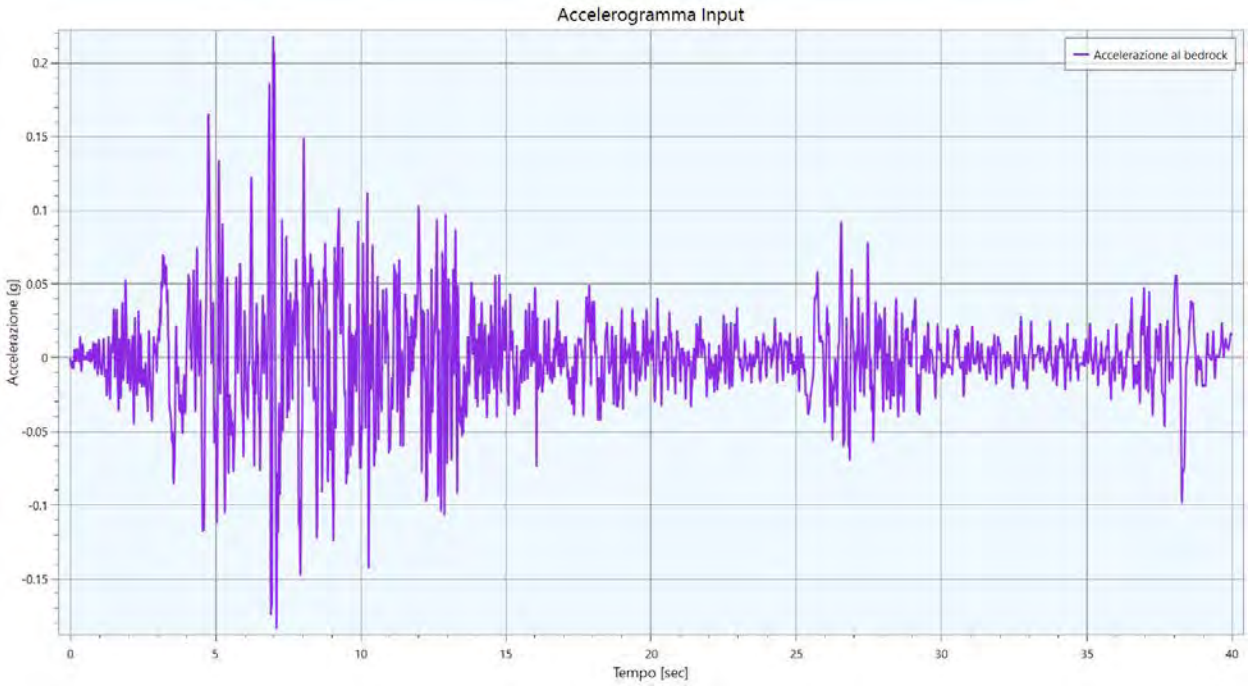


Periodo di ritorno di 475 anni
Gruppo ID_NTC longitudine latitudine
8 15394 11.0250 44.8090
Magnitude(Mw) Epic.Distance(km) SF_ASCONA SF1 SF2 SF_TOT Source File_Name
6.00 24.00 2.55 1.01 1.00 2.58 % ESD 000764xa.cor
6.87 11.00 0.64 1.01 1.00 0.65 % ESD 000182xa.cor
6.20 32.00 1.57 1.01 1.00 1.59 % ESD 000234ya.cor
6.19 38.63 2.69 1.01 1.00 2.72 % NGA 0455y.txt
6.69 61.26 2.14 1.01 1.00 2.16 % NGA 1033y.txt
6.60 36.18 1.54 1.01 1.00 1.56 % KNET1 SAG0010503201053.NS
6.30 101.74 0.37 1.01 1.00 0.37 % ITACA 20090406_013239ITDPC_ASS__NSC.DAT

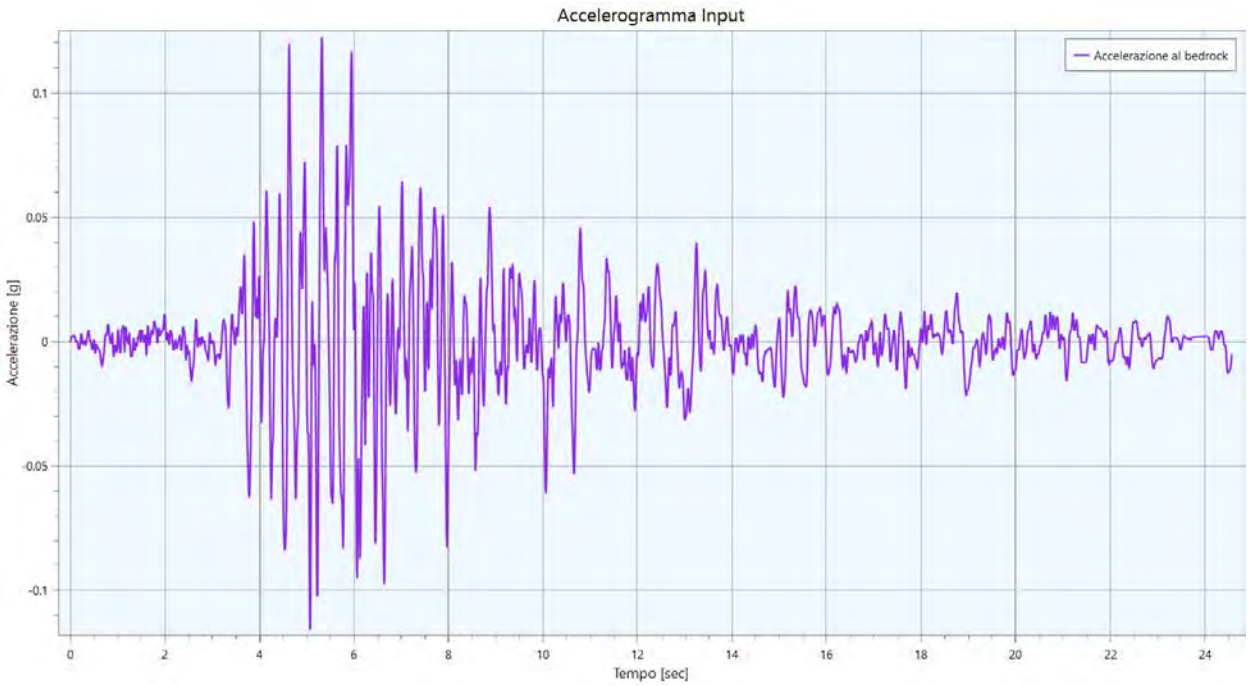
ESD 000764xa



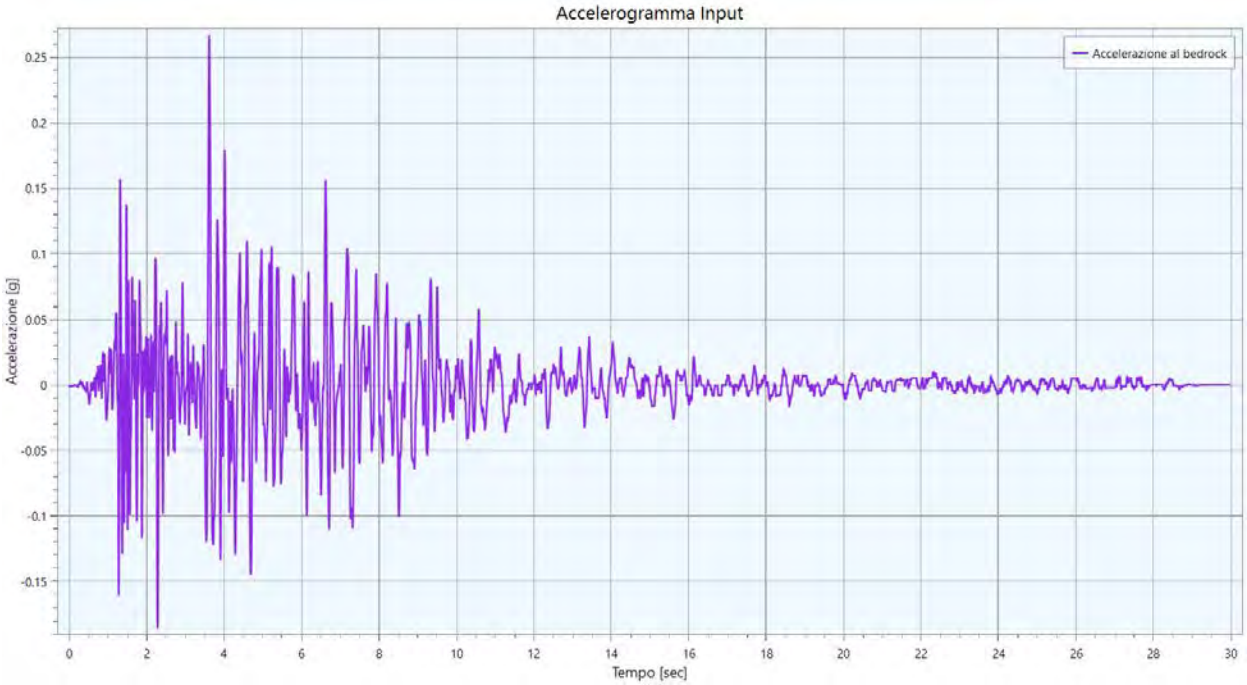
ESD 000182xa



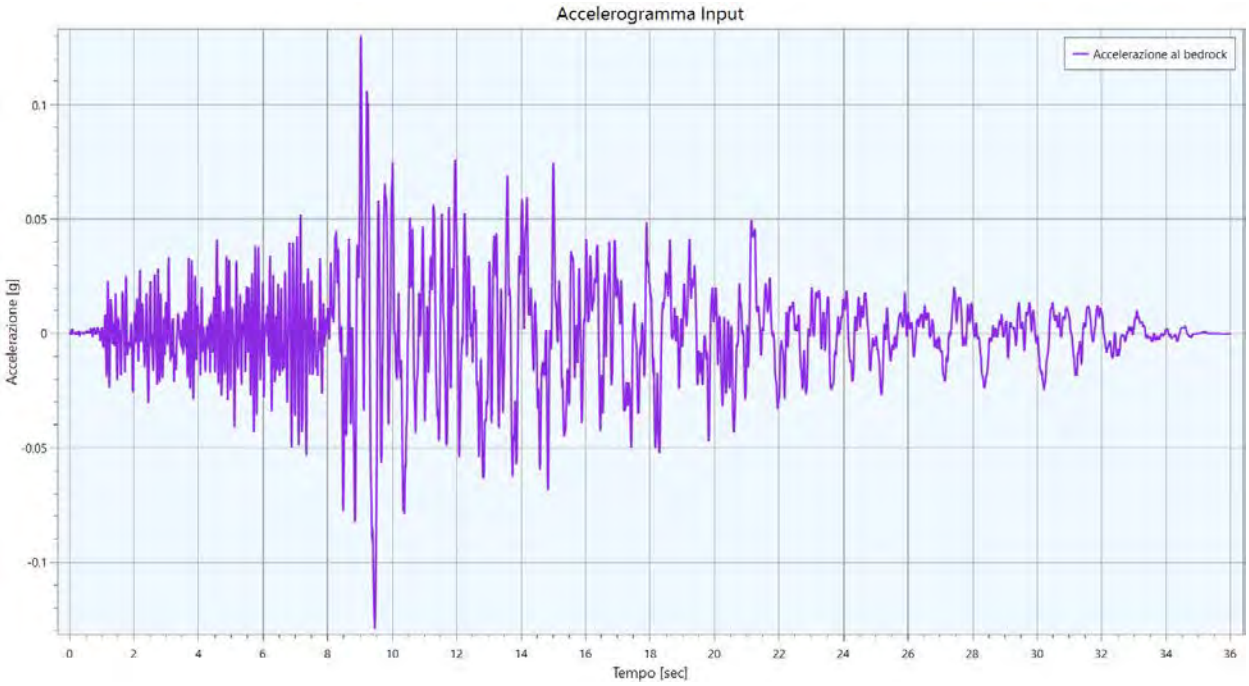
ESD 000234ya



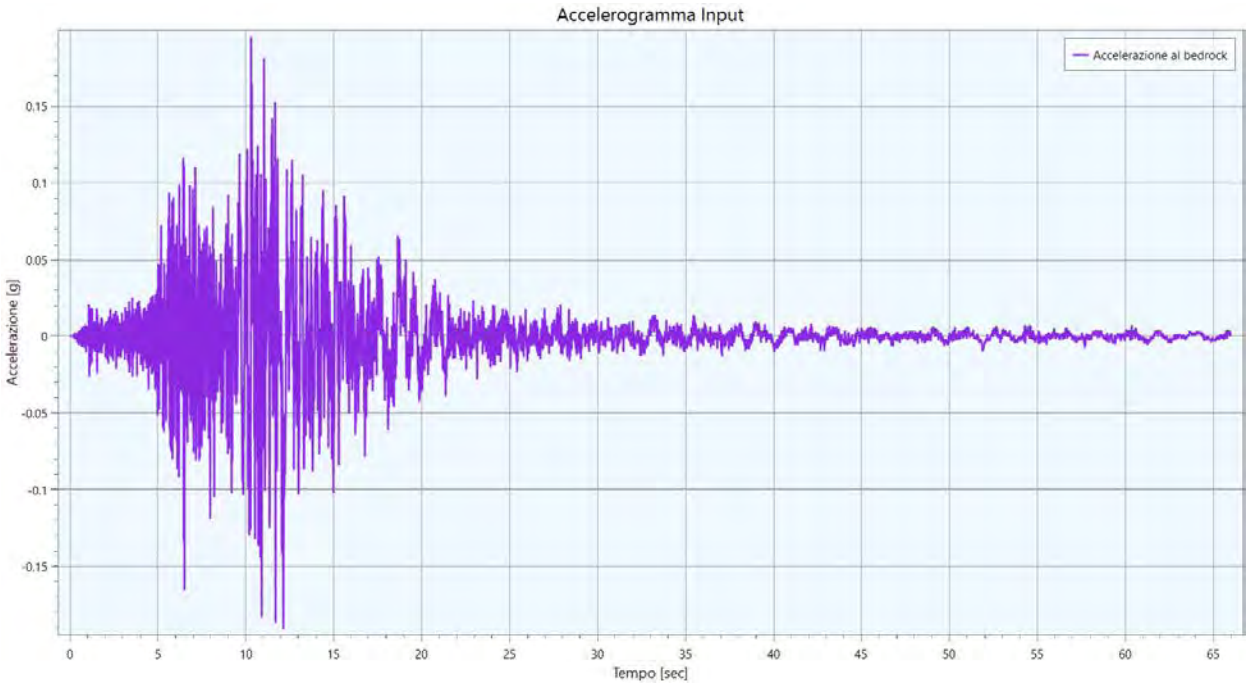
NGA 0455y.txt



NGA 1033y.txt



KNET1 SAG0010503201053.NS



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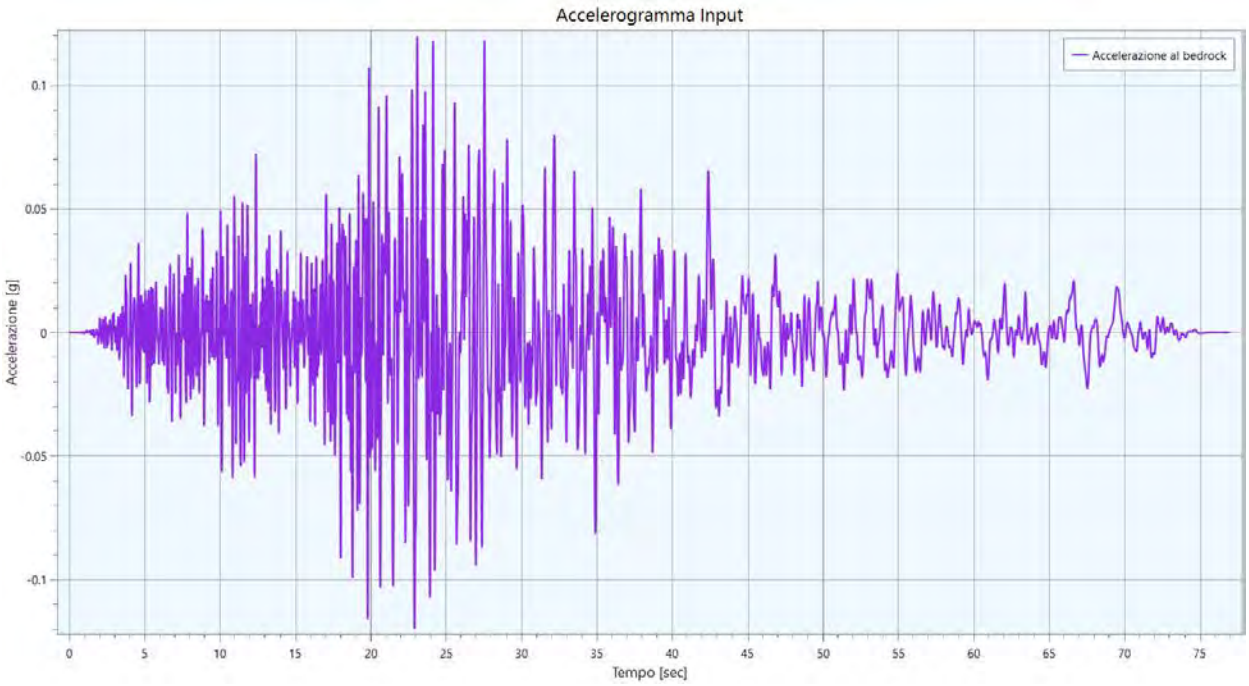


7.4 Definizione del modello di calcolo

Il codice di calcolo adottato per le simulazioni numeriche è LSR2D - Stacec Srl. Tale codice consente di ottenere una soluzione numerica del problema di propagazione delle onde sismiche in un modello bidimensionale, il cui schema di analisi adottato è quello lineare equivalente nel dominio del tempo e le equazioni del moto vengono assemblate mediante il metodo degli elementi finiti nell'ipotesi di materiale viscoelastico in tensioni totali. Il deposito viene discretizzato in una mesh di elementi di forma triangolare o quadrangolare, consentendo una efficace modellazione della variazione geometrica del contatto deposito-basamento, così come delle irregolarità della superficie topografica e dei contatti stratigrafici.
La scelta della griglia di calcolo rappresenta un punto fondamentale dell'analisi in quanto da essa dipende l'accuratezza della soluzione. In generale è possibile affermare che tanto più è fitta la mesh tanto più sarà accurata la soluzione, tuttavia una mesh troppo fitta fa aumentare notevolmente gli oneri computazionali; per contro una mesh troppo grossolana si traduce in un filtraggio delle componenti di alta frequenza poiché le piccole lunghezze d'onda non possono essere adeguatamente modellate da nodi troppo distanti tra loro. A tal proposito è stato scelto che la dimensione di ogni elemento non sia inferiore ad a 1/8 della più piccola lunghezza d'onda considerata nell'analisi:

$$p \leq \frac{1}{8}\frac{Vs}{f_{\max}}$$

dove Vs è la velocità di propagazione delle onde del materiale costituente l'elemento e $fmax$ è la massima frequenza considerata nell'analisi (in genere 20-25 Hz).
Il moto sismico di input $\ddot{u}b$ viene applicato simultaneamente a tutti i nodi della base sotto forma di onde trasversali SV e/o onde di compressione P (in plane motion) con direzione di propagazione verticale ed ha il significato fisico di un moto registrato su affioramento piano del basamento (outcropping bedrock). Per tenere conto della perdita di energia per radiazione alla base del modello sono presenti degli smorzatori viscosi lineari aventi costanti di smorzamento pari a:

$cx=\rho_b V_{S,b}$
$cy=\rho_b V_{P,b}$

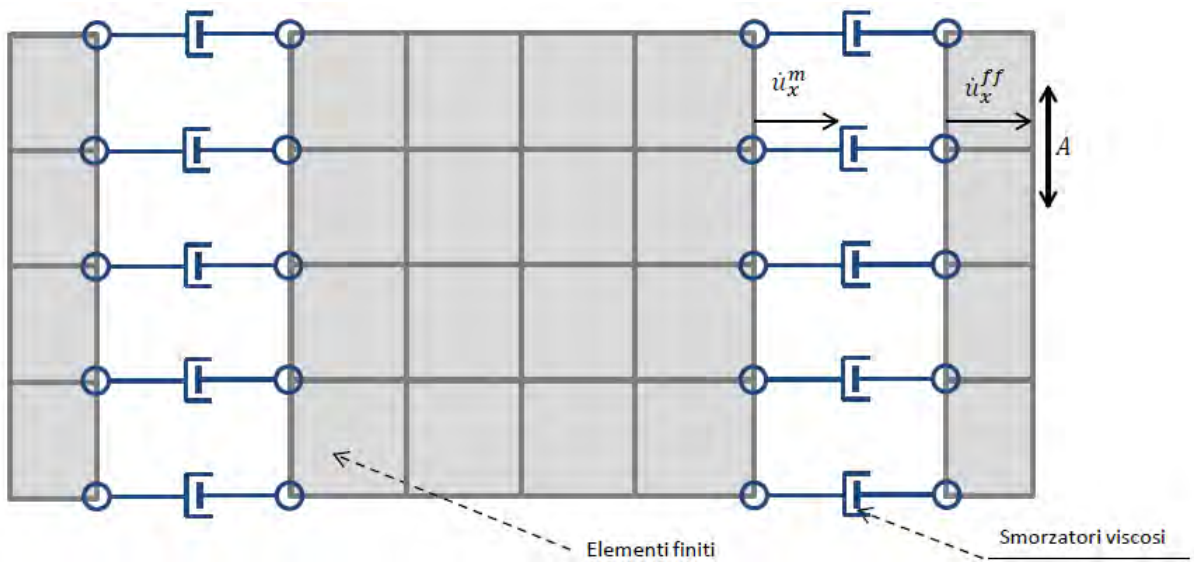
Nel sistema di equazioni globale tali coefficienti vengono assemblati all'interno della matrice di smorzamento $\boldsymbol{Cb}$.
Gli spostamenti in corrispondenza delle frontiere laterali del modello dovrebbero essere uguali a quelli di una colonna di terreno isolata in condizioni di campo libero. Se lo smorzamento del terreno è relativamente alto, tale condizione può essere raggiunta semplicemente allontanando di una certa distanza dalla regione di interesse le frontiere

laterali ed assegnando delle restrizioni cinematiche nei confronti della componente verticale (condizione 1). Tuttavia, se lo smorzamento del terreno è basso la distanza necessaria per il raggiungimento della condizione desiderata risulta molto elevata, producendo un notevole incremento dei costi computazionali. Un metodo alternativo, è quello di "applicare" il moto di campo libero in modo tale che le frontiere agiscano come un sistema in grado di assorbire le onde riflesse che altrimenti verrebbero artificialmente reintrodotte nel modello. Nel codice LSR2D questo è implementato mediante l'accoppiamento di smorzatori viscosi tra i nodi delle frontiere laterali del modello e i nodi di opportune colonne di terreno monodimensionali (colonne free-field) in grado di descrivere il moto in condizioni di campo libero. Le coordinate dei nodi delle frontiere laterali del modello e delle colonne free-field sono uguali. È necessario, per il corretto funzionamento di tali condizioni al contorno, che le frontiere laterali del modello siano perfettamente verticali. Le forze interne agli smorzatori vengono ottenute mediante le seguenti equazioni:

$$F_x = -\rho V_p \left(\dot{u}_x^m - \dot{u}_x^{ff}\right) A \qquad (1)$$

$$F_y = -\rho V_s \left(\dot{u}_y^m - \dot{u}_y^{ff}\right) A \qquad (2)$$

- ρ: densità di massa del terreno adiacente alla frontiera laterale;
- V_p: velocità delle onde P del terreno adiacente alla frontiera laterale;
- V_s: velocità delle onde S del terreno adiacente alla frontiera laterale;
- A: area di influenza relativa al nodo su cui agisce lo smorzatore;
- $\dot{u}_{xm}$: velocità del nodo del modello in direzione x;
- $\dot{u}_{ym}$: velocità del nodo del modello in direzione y;
- $\dot{u}_{xff}$: velocità del nodo della colonna free-field in direzione x;
- $\dot{u}_{yff}$: velocità del nodo della colonna free-field in direzione y.



Le componenti della velocità dei nodi delle colonne laterali ad ogni istante di tempo vengono ottenute mediante una soluzione numerica monodimensionale a masse concentrate dell'equazione di propagazione delle onde. Tale soluzione è affidata ad un processo di calcolo che opera in parallelo rispetto a quello impiegato per la soluzione del modello principale. In altre parole, per il generico passo di integrazione temporale, vengono dapprima ottenute le componenti delle velocità delle colonne di campo libero attraverso la soluzione 1D, per poi essere convertite in carichi applicati al modello principale mediante le equazioni (1) e (2). Tali forze vengono assemblate all'interno del vettore $\boldsymbol{F}_{ff}(t)$ presente al secondo membro delle equazioni globali del moto.
Le risposta dissipativa del terreno viene modellata mediante il modello lineare viscoso e quindi, dal punto di vista matematico, attraverso la matrice di smorzamento globale $\boldsymbol{C_e}$. Essa viene ottenuta mediante una procedura di assemblaggio delle matrici locali di smorzamento degli elementi finiti presenti nel modello, le quali al loro volta sono ottenute mediante lo schema di smorzamento classico (alla Rayleigh). Per elemento i-esimo, questo prevede:

$$C_i = \alpha_{R,i} M_i + \beta_{R,i} K_i$$

dove $\alpha_{R,i}$ e $\beta_{R,i}$ sono i coefficienti di Rayleigh, M_i e K_i rispettivamente la matrice di massa e di rigidezza del singolo elemento finito.
I coefficienti di Rayleigh per il singolo elemento vengono determinati sulla base di due pulsazioni angolari globali ω_n e ω_m mediante le seguenti relazioni:

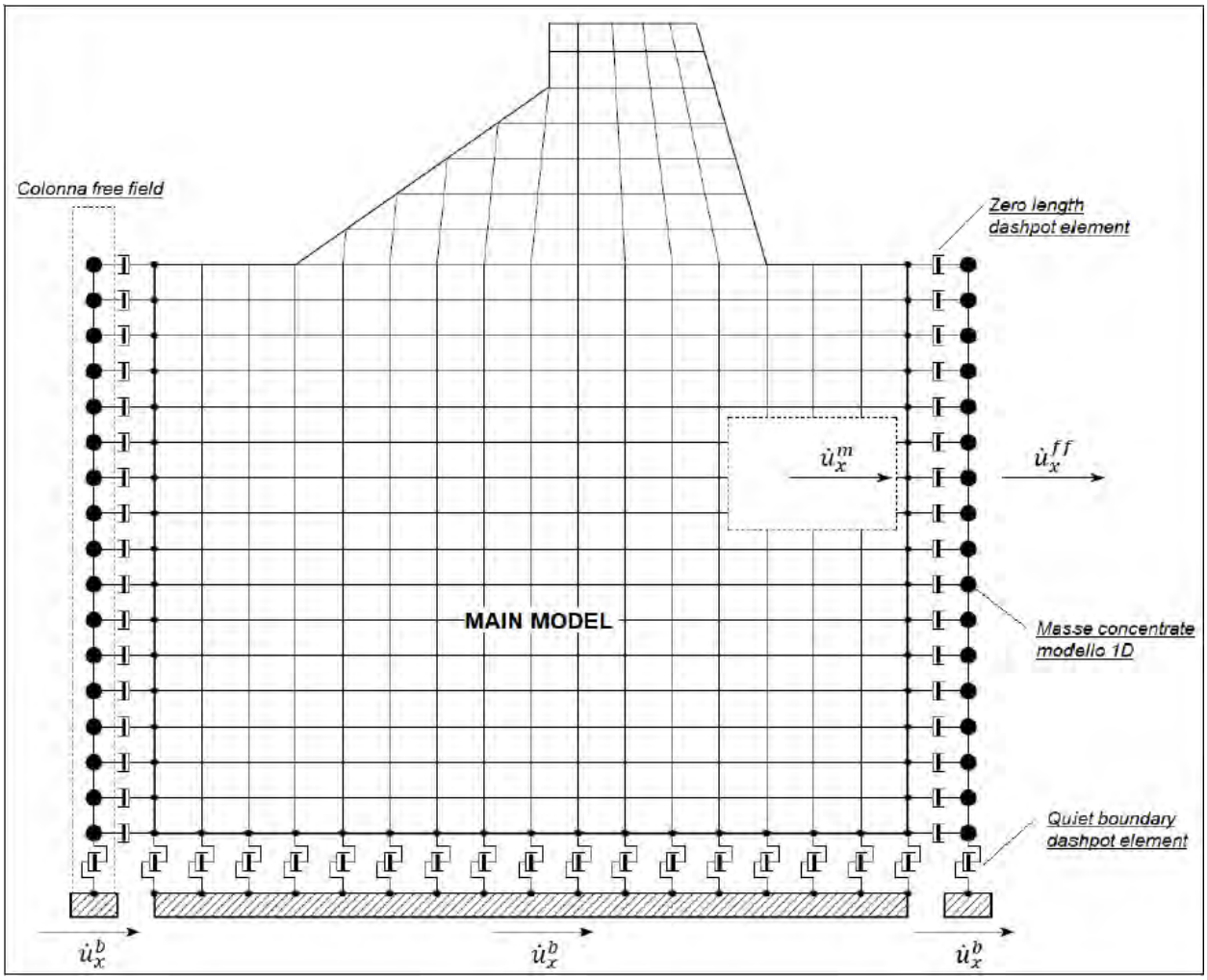
$$\alpha_{R,i} = \xi_i \frac{2\,\omega_n\,\omega_m}{\omega_n + \omega_m}$$

$$\beta_{R,i} = \xi_i \frac{2}{\omega_n + \omega_m}$$

dove:
- ξ_i: rapporto di smorzamento viscoso dell'i-esimo elemento finito;
- ω_n: prima frequenza naturale circolare dell'intero deposito (calcolata mediante analisi modale dal solutore);
- $\omega_m = n\ \omega_n$: essendo n l'intero dispari che approssima per eccesso il rapporto tra la frequenza predominante dell'input sismico ω_1 e la frequenza ω_n.

7.4a Le equazioni del moto

La schematizzazione del modello agli elementi finiti adottato dal codice di calcolo LSR2D è riportata nella figura sottostante,



l'equilibrio dinamico globale per tale sistema può essere espresso mediante la seguente relazione:

$$\boldsymbol{M}\,\ddot{\boldsymbol{u}} + (\boldsymbol{C_e} + \boldsymbol{C_b})\dot{\boldsymbol{u}} + \boldsymbol{K}\boldsymbol{u} = -\boldsymbol{M}\boldsymbol{I_x}\,\ddot{u}_{b,x}(t) - \boldsymbol{M}\boldsymbol{I_y}\,\ddot{u}_{b,y}(t) + \boldsymbol{F}_{ff}(t)$$

dove:
- $\boldsymbol{M}$: matrice di massa globale del sistema;
- $\boldsymbol{C_e}$: matrice di smorzamento globale del sistema relativa agli elementi finiti;
- $\boldsymbol{C_b}$: matrice di smorzamento globale del sistema relativa agli smorzatori viscosi presenti alla base del modello;
- $\boldsymbol{K}$: matrice di rigidezza globale del sistema;
- $\ddot{\boldsymbol{u}}$: vettore delle accelerazioni globali del sistema;
- $\dot{\boldsymbol{u}}$: vettore delle velocità globali del sistema;
- $\boldsymbol{u}$: vettore degli spostamenti globali del sistema;

- $\boldsymbol{I}_x$: vettore globale di trascinamento in direzione orizzontale;
- $\boldsymbol{I}_y$: vettore globale di trascinamento in direzione verticale;
- $\ddot{u}b,x(t)$: storia temporale in direzione orizzontale dell'accelerazione in input;
- $\ddot{u}b,y(t)$: storia temporale in direzione verticale dell'accelerazione in input;
- $\boldsymbol{F}_{ff}(t)$: forze dinamiche dovute alle condizioni free-field.

6.4b Integrazione nel tempo

La soluzione delle equazioni del moto all'n-simo istante di tempo viene ottenuta mediante un algoritmo di integrazione diretta nel dominio del tempo (metodo di Newmark). I metodi di integrazione facenti parti della famiglia dei metodi di Newmark si basano sulle seguenti espressioni:

$$\dot{u}_n = \dot{u}_{n-1} + \Delta t[(1-\gamma)\ddot{u}_{n-1} + \gamma\, \ddot{u}_n]$$

$$u_n = u_{n-1} + \Delta t\, \dot{u}_{n-1} + \frac{\Delta t^2}{2}[(1-2\beta)\ddot{u}_{n-1} + 2\ddot{u}_n]$$

Nel codice di calcolo LSR2D viene utilizzato il metodo CAA (Constant Average Acceleration Method) che risulta incondizionatamente stabile e non introdurre alcun damping numerico nella soluzione [Hughes, 1987]. In tal caso i coefficienti del γ e β valgono rispettivamente 0.5 e 0.25.
Riscrivendo l'equazione del moto nella seguente forma:

$$M\,\ddot{u} + C\dot{u} + Ku = p$$

l'algoritmo di soluzione numerica viene di seguito illustrato.
Note le condizioni iniziali in termini di spostamento e di velocità, si determina l'accelerazione iniziale attraverso la relazione:

$$\ddot{u}_0 = M^{-1}(p_0 - C\dot{u}_0 - Ku_0)$$

Assegnata l'ampiezza Δt dell'intervallo di integrazione, si calcolano le seguenti costanti:

$$\widehat{K} = \frac{1}{\beta\Delta t^2}M + \frac{\gamma}{\beta\Delta t}C + K; \qquad A = \frac{1}{\beta\Delta t}M + \frac{\gamma}{\beta}C; \qquad B = \frac{1}{2\beta}M + \Delta t\left(\frac{\gamma}{2\beta} - 1\right)C$$

Per ogni intervallo di integrazione si calcolano le quantità:

$$\Delta\hat{p}_n = \Delta p_n + A\dot{u}_n + B\ddot{u}_n; \qquad \Delta u_n = \frac{\Delta\hat{p}_n}{\hat{K}}$$

$$\Delta\dot{u}_n = \frac{\gamma}{\beta\Delta t}\Delta u_n - \frac{\gamma}{\beta}\dot{u}_n - \Delta t\left(\frac{\gamma}{2\beta} - 1\right)\ddot{u}_n; \qquad \Delta\ddot{u}_n = \frac{1}{\beta\Delta t^2}\Delta u_n - \frac{1}{\beta\Delta t}\dot{u}_n - \frac{1}{2\beta}\ddot{u}_n$$

da cui si ottiene:

$$u_{n+1} = u_n + \Delta u_n; \qquad \dot{u}_{n+1} = \dot{u}_n + \Delta\dot{u}_n; \qquad \ddot{u}_{n+1} = \ddot{u}_n + \Delta\ddot{u}_n$$

Sostituendo n con n+1, si ripete il procedimento per il successivo intervallo di integrazione, e così via per tutti gli istanti di tempo.
Nel modello monodimensionale (1D), qui adottato, il deposito è rappresentato da una colonna di terreno utilizzando un modello di propagazione lineare delle onde, con proprietà dinamiche del terreno variabili in funzione del livello deformativo. Si basa anch'esso sul codice SHAKE ed è possibile eseguire analisi lineari elastiche, dove le proprietà del terreno sono mantenute costanti, oppure analisi equivalenti lineari dove le proprietà elastiche e lo smorzamento vengono fatte variare a seconda della curva di decadimento del terreno scelto. Il codice di calcolo non permette di eseguire analisi non lineari ed inoltre lavora esclusivamente in termini di tensioni totali.
Il comportamento meccanico dei terreni sotto l'effetto di carichi ciclici ad elevata frequenza è alquanto complesso e caratterizzato da marcata non linearità, accumulo di deformazioni permanenti, dissipazione di energia e degradazione progressiva delle caratteristiche meccaniche per effetto del numero di cicli di carico applicati. In presenza di fluido interstiziale, alle suddette problematiche si aggiunge l'accumulo di sovrappressioni interstiziali in condizioni di drenaggio impedito o parziale, che sono comunque le più frequenti, in considerazione della velocità di applicazione del carico.
La modellazione di tali fenomeni richiede l'utilizzo di legami costitutivi complessi, che oltretutto difficilmente riescono a riprodurre simultaneamente tutte le specificità del comportamento dei terreni. Per tale ragione spesso si preferisce fare riferimento a modelli costitutivi semplificati che, pur non essendo rigorosi, riescono a riprodurre il comportamento in modo adeguato in riferimento alla specifica applicazione.
In particolare, per quanto riguarda la risposta sismica dei depositi, l'approccio visco-elastico lineare equivalente rappresenta un valido compromesso tra semplificazione delle analisi ed accuratezza dei risultati. La strategia consiste sostanzialmente nel fare riferimento alle soluzioni visco-elastiche lineari per la propagazione delle onde sismiche adeguando in modo iterativo i parametri costitutivi in funzione del livello deformativo indotto dal moto sismico nel terreno.

Tale modello lineare equivalente, studia il comportamento tra tensione e deformazione del terreno basandosi sul modello di Kelvin-Voigt, illustrato in figura sottostante. La tensione τ dipende dalla deformazione γ e dalla sua derivata γ', secondo la relazione:

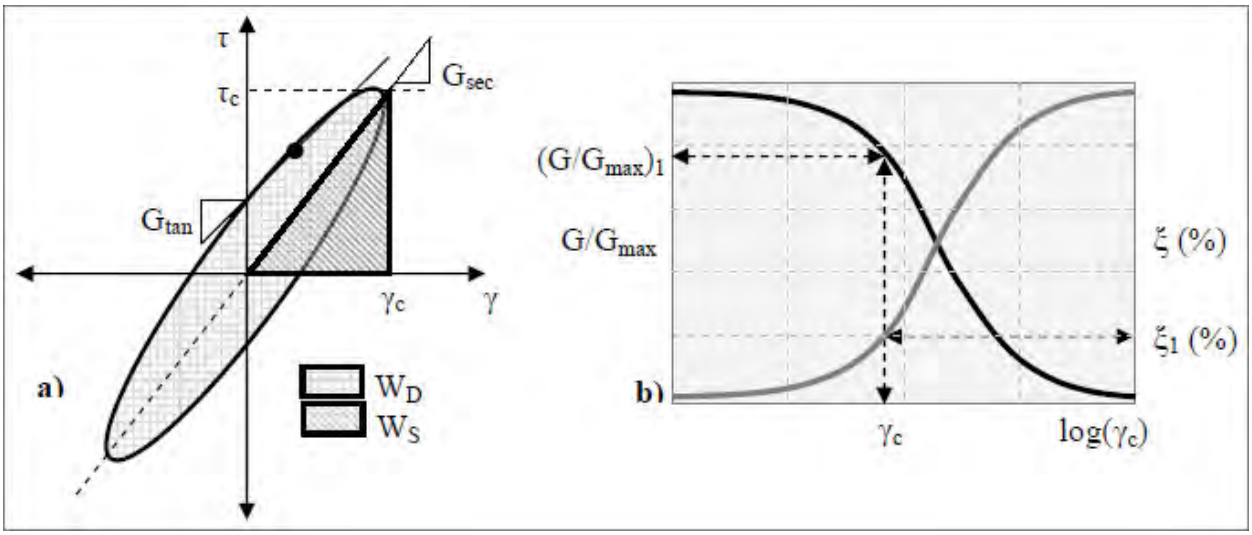
$$\tau = G\,\gamma + \eta\,\dot{\gamma}$$

dove:

- G : Modulo di taglio;
- η : viscosità del mezzo.

Il comportamento non lineare del terreno, durante un ciclo di carico, viene approssimato per come mostrato in figura. Il modulo di taglio equivalente, G, è preso considerando il modulo di taglio secante Gs. È possibile notare come alla fine di un ciclo controllato e simmetrico di tensioni si ha:

$$G_s = \frac{\tau_c}{\gamma_c}$$



Modello lineare equivalente; a) ciclo di isteresi; b)curve di non linearità

La curva Gs- γ non può avere una forma arbitraria ma deriva dalla curva τ - γ e sussiste seguente relazione:

$$\frac{d\tau}{d\gamma} = G_s(\gamma) + \frac{dG_s}{d\gamma}\,\gamma \;\geq 0$$

La descrizione del comportamento meccanico dei terreni nei confronti dei carichi ciclici non può peraltro prescindere dalla dissipazione intrinseca di energia che si verifica durante i cicli di carico-scarico. Il parametro di riferimento a tal riguardo è costituito dal coefficiente di smorzamento D, definito come:

$$D = \frac{1}{4\pi} \frac{\Delta W^{dissp}}{W^{max}}$$

dove:
ΔW^{dissp}: quantità di energia dissipata, per unità di volume, dal terreno durante un ciclo di carico armonico;
W^{max} : massima energia di deformazione, per unità di volume, immagazzinata dal terreno durante lo stesso ciclo di carico armonico.

In definitiva la risposta non lineare del terreno tramite il modello viscoelastico lineare equivalente viene riassunta mediante delle curve di riduzione del modulo di taglio e di incremento del rapporto di smorzamento
La procedura iterativa che consente di ottenere la risposta non lineare del sistema consiste nell'eseguire una sequenza di analisi lineari, con aggiornamento iterativo dei parametri di rigidezza e smorzamento, fino al raggiungimento di un prefissato criterio di convergenza. Facendo riferimento alla stratigrafia inserita, lo schema della procedura iterativa su cui è basato il modello lineare equivalente, da applicare ad ogni strato in cui è stato discretizzato il profilo stratigrafico:

1) definizione di curve $G=G(\gamma)$ e $D=D(\gamma)$ per i diversi strati;
2) inizializzazione dei valori del modulo di taglio e del fattore di smorzamento ai livelli di piccole deformazioni (G_0 e D_0);
3) calcolo della risposta dinamica del suolo e valutazione della deformazione massima a taglio in ogni strato;
4) aggiornamento dei valori $G_1=G(\gamma_1)$ e $D_1=D(\gamma_1)$;
5) iterazione dei passi 3 e 4 fino a convergenza ($\gamma_{i-1} \sim \gamma_i$).

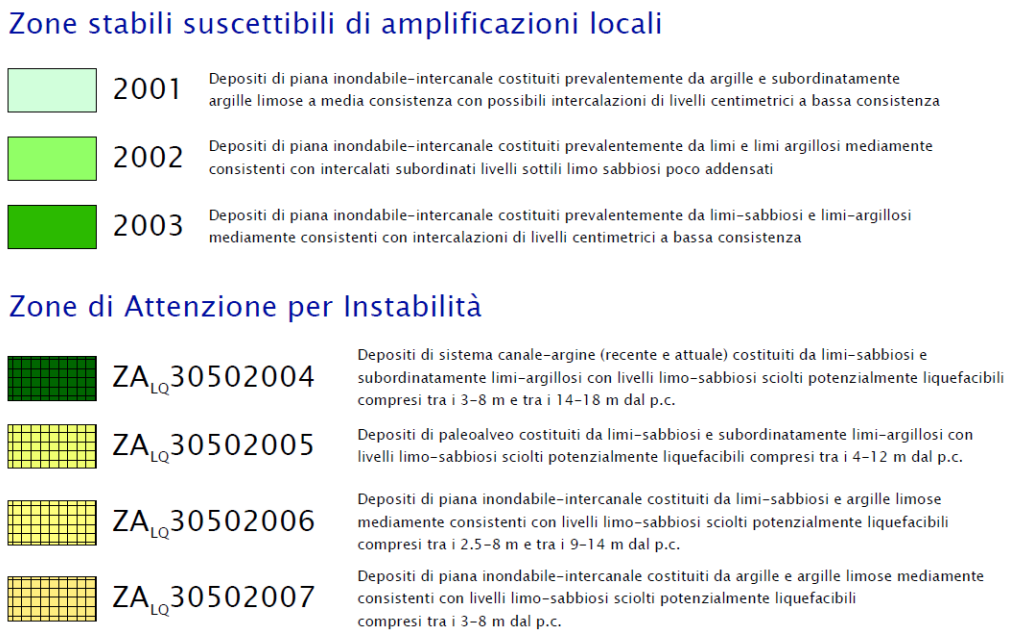
Il programma permette di ricavare diversi dati di output come lo spettro di risposta in termini di accelerazione, velocità e spostamento in superficie, deformazioni e sforzi di taglio e molti altri dati utili allo svolgimento dell'analisi sismica locale.
In base agli output di interesse definiti nella scheda precedente il programma restituisce i risultati dell'analisi, sia in versione grafica che tabulare.

7.5 Risultati della modellazione

I risultati della analisi condotte con il codice LSR2D lungo le verticali significative hanno permesso di ricavare per ognuno dei singoli areali in cui è stato suddiviso il territorio oggetto dello studio di III livello:

- Lo spettro di risposta elastico in pseudoaccelerazione (PSA) e lo spettro di risposta elastico in pseudovelocità (PSV); gli spettri rappresentati sono ottenuti come mediana dei valori degli spettri di tutti i segnali sismici in output;
- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido;
- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s e 0.7-1.1 s, per i due spettri indicati (superficie e suolo rigido);
- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido);
- il valore di H, parametro che esprime lo scuotimento atteso in valore assoluto (accelerazione, cm/s^2), atteso al sito per gli intervalli di periodi 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s.

Si riportano di seguito i risultati delle modellazioni effettuate sui singoli areali delle zone individuate nella microzonazione sismica di I livello (MOPS):



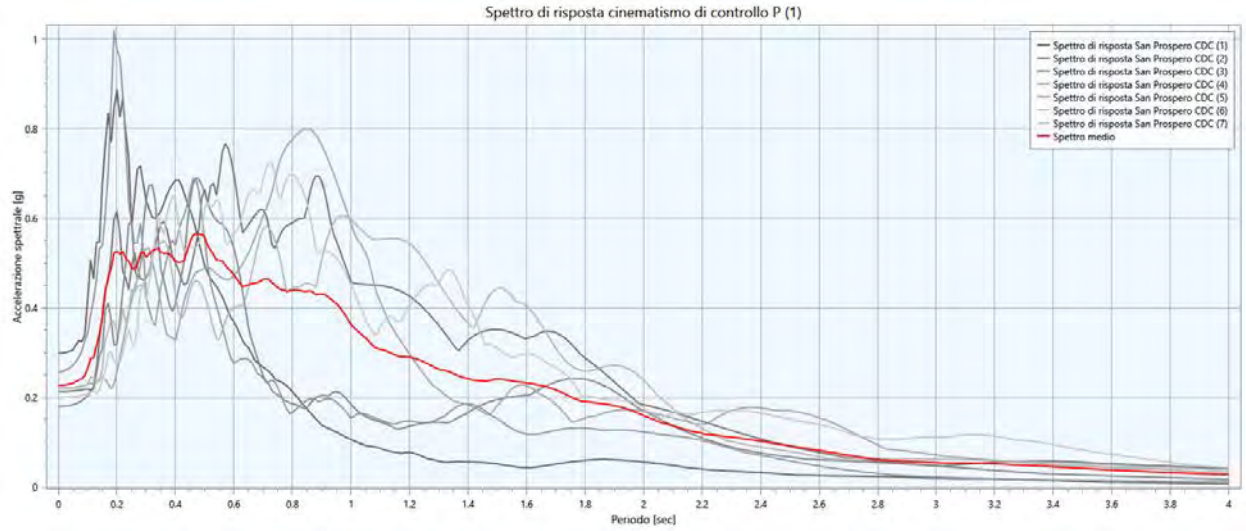
Per ogni singolo areale analizzato vengono riportati i seguenti dati:

- Lo spettro di risposta elastico in pseudoaccelerazione (PSA) ottenuto come mediana dei valori degli spettri di tutti i segnali sismici in output confrontato con quello semplificato derivato dalle NTC per la categoria di sottosuolo per ogni singola zona;
- Confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016;
- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido;
- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s e 0.7-1.1 s, per i due spettri indicati (superficie e suolo rigido);
- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido);
- il valore di H, parametro che esprime lo scuotimento atteso in valore assoluto (accelerazione, cm/s^2), atteso al sito per gli intervalli di periodi 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s.

7.5.1 Zone stabili suscettibili di amplificazioni locali (2001)

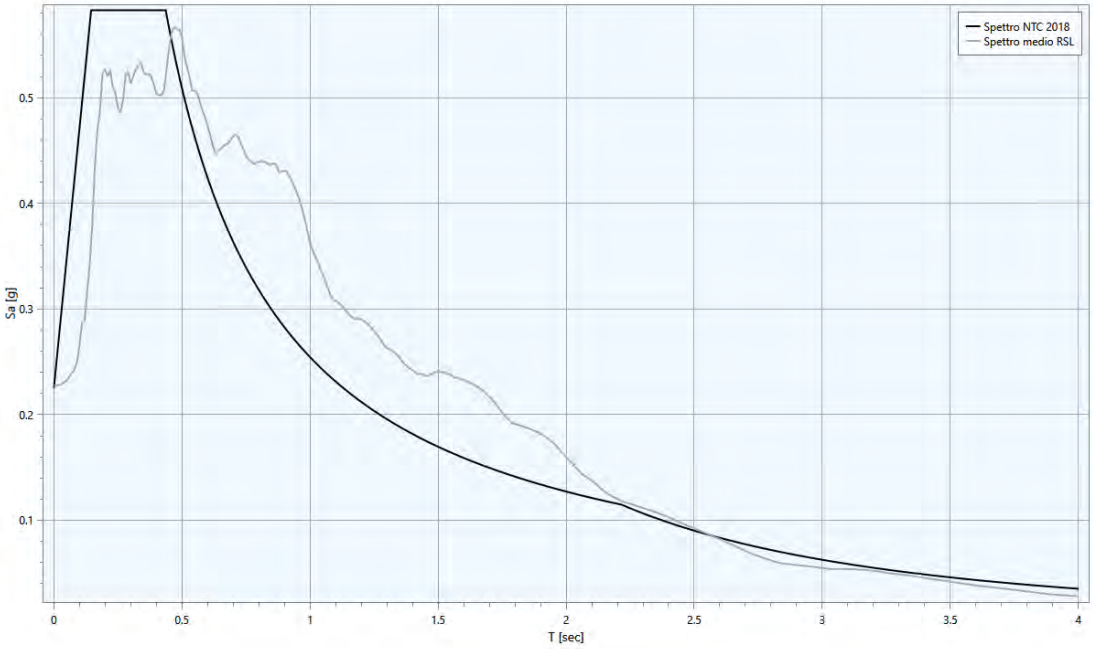
Si riportano di seguito:

Spettri di risposta in superficie in campo di free-field



Spettri di accelerazione desunti dall'analisi di Risposta sismica locale. In rosso, come richiesto da normativa è rappresentato lo spettro medio dei 7 accelerogrammi naturali di input

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18.



Confronto tra lo spettri medio desunto dall'analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016.
In particolare, tale procedura fornisce i parametri per l'inserimento dello spettro elastico all'interno di codici di calcolo per l'analisi strutturale finalizzati alla progettazione delle strutture in zona sismica. Tali parametri sono:

- S coefficiente di amplificazione che tiene conto delle condizioni stratigrafiche e delle condizioni topografiche da cui è possibile stimare $a_{max} = S\, a_g$ dove a_{max} e a_g rappresentano rispettivamente l'accelerazione d'ancoraggio dello spettro di risposta con effetti di sito e l'accelerazione orizzontale massima su suolo di tipo A;
- T_B è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;
- T_C è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro;
- T_D è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro;
- F_0 fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale.

Di seguito vengono riportati i vari steps della procedura:

a) Si calcola lo spettro di pseudoaccelerazione (S_A) e si determina il periodo proprio (T_A) per il quale è massimo il valore dello spettro di pseudoaccelerazione;
b) Si calcola il valore medio dello spettro ($S_{A,m}$) nell'intorno di T_A tra $0.5\,T_A$ e $1.5\,T_A$, questo valore sarà assunto come valore costante del tratto ad accelerazione costante dello spettro standard:

$$S_{A,m} = \frac{1}{T_A} \int_{0.5\,T_A}^{1.5\,T_A} S_A(T)dT$$

c) Si determina lo spettro di pseudovelocità (S_V) a partire da quello di accelerazione, moltiplicando le ordinate spettrali di quest'ultimo per l'inverso della corrispondente frequenza circolare $\omega = 2\pi/T$:

$$S_V(T) = S_A(T)\frac{T}{2\pi}$$

e quindi si individua il periodo (T_V) per il quale è massimo il valore dello spettro di pseudovelocità;
d) Si calcola il valore medio dello spettro ($S_{V,m}$) nell'intorno di T_V nell'intorno tra $0.8\,T_V$ e $1.2\,T_V$:

$$S_{V,m} = \frac{1}{0.4\,T_V} \int_{0.8\,T_V}^{1.2\,T_V} S_V(T)dT$$

e) Si determina il periodo in corrispondenza del quale si incontrano i due rami dello spettro ad accelerazione costante e velocità costante:

$$T_C = 2\pi \frac{S_{V,m}}{S_{A,m}}$$

f) Si determina $T_B = \frac{1}{3}T_C$, $T_D = 4.0\frac{a_g}{g} + 1.6$ ed $S = \frac{a_{max}}{a_g}$ con a_{max} punto di ancoraggio a T=0 dello spettro di output. Poiché il valore di amax non è generalmente fornito nello spettro delle simulazioni numeriche si procede per estrapolazione lineare, secondo la seguente equazione:

$$a_{max} = \left(\frac{S_e(T = 0.01s)}{S_{A,m}} - \frac{0.01}{T_B}\right)\left(\frac{S_{A,m}}{1 - \frac{0.01}{T_B}}\right)$$

con $S_e(T = 0.01s)$ ordinata dello spettro di accelerazione per $T = 0.01s$, primo valore del periodo nello spettro elastico delle simulazioni numeriche.
Infine, una volta stabilito lo smorzamento di riferimento ξ, le ordinate dello spettro in pseudo-accelerazione vengono ottenute mediante le seguenti relazioni:

$0 \le T \le T_B$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left[\frac{T}{T_B} + \frac{1}{\eta\, F_0}\left(1 - \frac{T}{T_B}\right)\right]$$

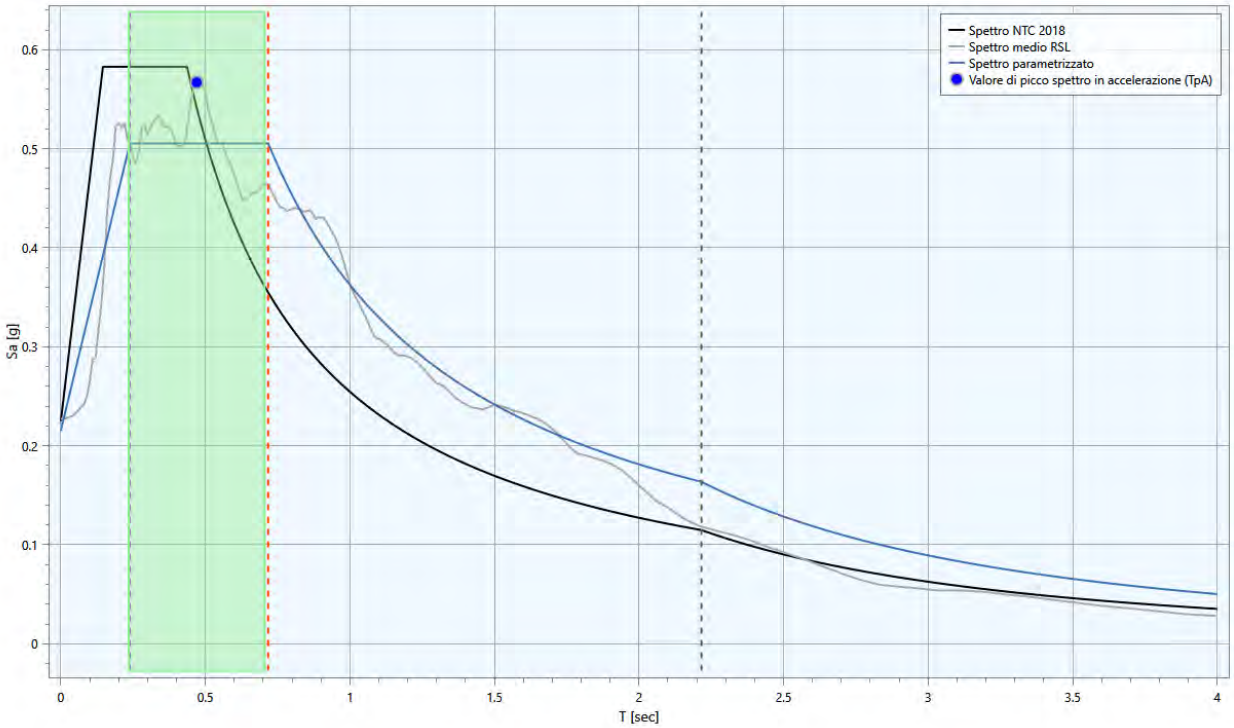
$T_B \le T \le T_C$ $$S_e(T) = a_g\, S\, \eta\, F_0$$

$T_C \le T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C}{T}\right)$$

$T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C\, T_D}{T^2}\right)$$

- nelle quali:
- T periodo proprio di vibrazione;
- η è il fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali B diversi dal 5%, mediante la relazione:

$$\eta = \sqrt{10/(5 + \xi)} \ge 0.55$$



Approccio semplificato NTC 2018

Ag [g]	0.154
F0	2.591
*Tc**	0.270
Categoria stratigrafica	C
Categoria topografica	T1

Parametrizzazione RSL

TpA [sec]	0.470
0.5 TpA [sec]	0.235
1.5 TpA [sec]	0.705
Sa,medio [g]	0.506
TpV [sec]	0.920
0.8 TpV [sec]	0.736
1.2 TpV [sec]	1.104
*Sv,medio [g*s]*	0.058
amax	**0.215**
F0	**2.348**
S	**1.398**
Tb [sec]	**0.239**
Tc [sec]	**0.717**
Td [sec]	**2.216**

Parametrizza

- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido

PGA - FPGA = 1.31

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s per i due spettri indicati (superficie e suolo rigido)

SA1 - FA0105 = 1.29
SA2 - FA0408 = 2.36
SA3 - FA0711 = 2.87
SA4 - FA0515 = 2.78

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido)

SI1 - FH0105 = 1.27
SI2 - FH0510 = 2.52
Si3 - FH0515 = 2.61

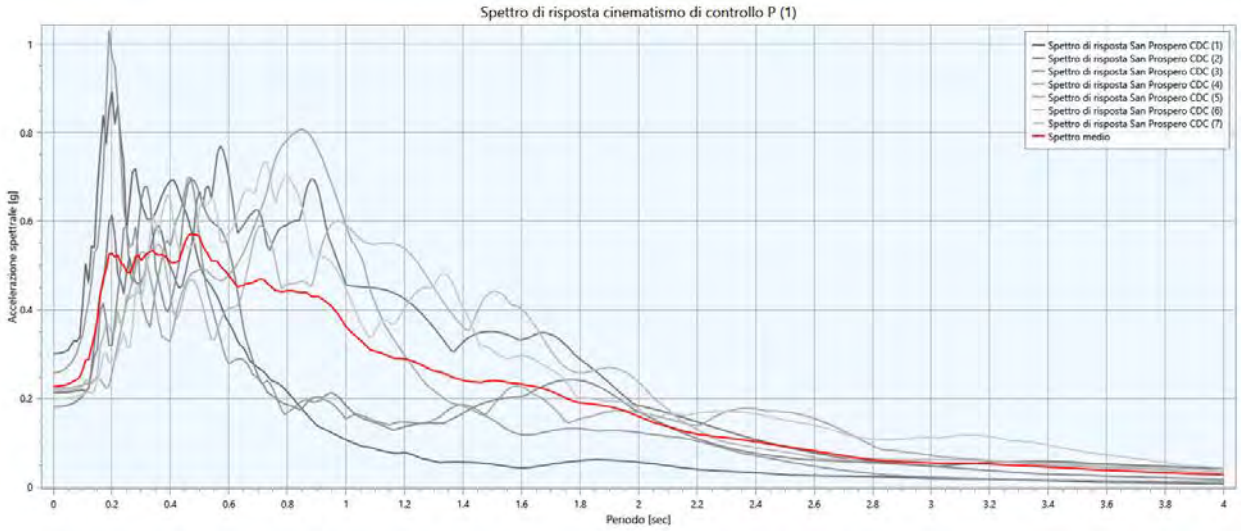
- il valore di H_{XX}, che rappresenta lo scuotimento atteso in valore assoluto (accelerazione in cm/s²), dato dal prodotto del parametro Acceleration Spectrum Intensity (ASI_{PU}), valore integrale dello spettro di riferimento in accelerazione, diviso per ΔT e moltiplicato per il fattore di amplificazione in accelerazione calcolato per lo stesso intervallo di periodi

H_{ms} = 463.66 cm/s²
H_{0408} = 489.95 cm/s²
H_{0711} = 479.85 cm/s²
H_{0515} = 362.32 cm/s²

7.5.2 Zone stabili suscettibili di amplificazioni locali (2002)

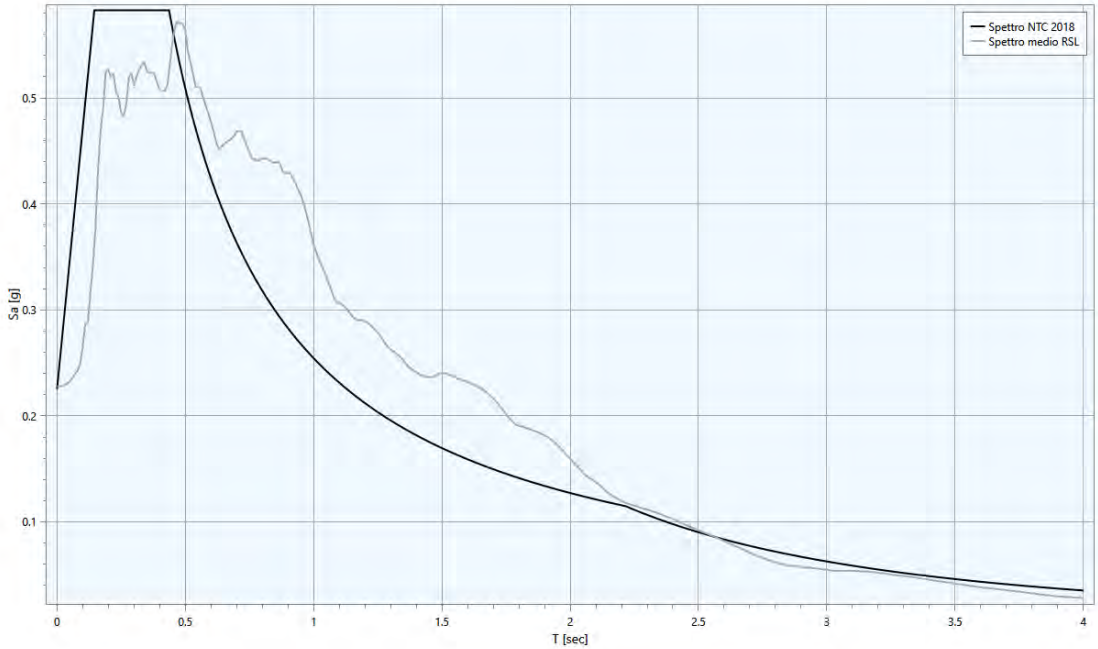
Si riportano di seguito:

Spettri di risposta in superficie in campo di free-field



Spettri di accelerazione desunti dall'analisi di Risposta sismica locale. In rosso, come richiesto da normativa è rappresentato lo spettro medio dei 7 accelerogrammi naturali di input

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18.



Confronto tra lo spettri medio desunto dall'analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016.
In particolare, tale procedura fornisce i parametri per l'inserimento dello spettro elastico all'interno di codici di calcolo per l'analisi strutturale finalizzati alla progettazione delle strutture in zona sismica. Tali parametri sono:

- S coefficiente di amplificazione che tiene conto delle condizioni stratigrafiche e delle condizioni topografiche da cui è possibile stimare $a_{max} = S\, a_g$ dove a_{max} e a_g rappresentano rispettivamente l'accelerazione d'ancoraggio dello spettro di risposta con effetti di sito e l'accelerazione orizzontale massima su suolo di tipo A;
- T_B è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;
- T_C è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro;
- T_D è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro;
- F_0 fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale.

Di seguito vengono riportati i vari steps della procedura:

g) Si calcola lo spettro di pseudoaccelerazione (S_A) e si determina il periodo proprio (T_A) per il quale è massimo il valore dello spettro di pseudoaccelerazione;

h) Si calcola il valore medio dello spettro ($S_{A,m}$) nell'intorno di T_A tra $0.5\,T_A$ e $1.5\,T_A$, questo valore sarà assunto come valore costante del tratto ad accelerazione costante dello spettro standard:

$$S_{A,m} = \frac{1}{T_A} \int_{0.5\,T_A}^{1.5\,T_A} S_A(T)dT$$

i) Si determina lo spettro di pseudovelocità (S_V) a partire da quello di accelerazione, moltiplicando le ordinate spettrali di quest'ultimo per l'inverso della corrispondente frequenza circolare $\omega = 2\pi/T$:

$$S_V(T) = S_A(T)\frac{T}{2\pi}$$

e quindi si individua il periodo (T_V) per il quale è massimo il valore dello spettro di pseudovelocità;

j) Si calcola il valore medio dello spettro ($S_{V,m}$) nell'intorno di T_V nell'intorno tra $0.8\,T_V$ e $1.2\,T_V$:

$$S_{V,m} = \frac{1}{0.4\,T_V} \int_{0.8\,T_V}^{1.2\,T_V} S_V(T)dT$$

k) Si determina il periodo in corrispondenza del quale si incontrano i due rami dello spettro ad accelerazione costante e velocità costante:

$$T_C = 2\pi \frac{S_{V,m}}{S_{A,m}}$$

l) Si determina $T_B = \frac{1}{3} T_C$, $T_D = 4.0 \frac{a_g}{g} + 1.6$ ed $S = \frac{a_{max}}{a_g}$ con a_{max} punto di ancoraggio a T=0 dello spettro di output. Poiché il valore di amax non è generalmente fornito nello spettro delle simulazioni numeriche si procede per estrapolazione lineare, secondo la seguente equazione:

$$a_{max} = \left(\frac{S_e(T = 0.01s)}{S_{A,m}} - \frac{0.01}{T_B} \right) \left(\frac{S_{A,m}}{1 - \frac{0.01}{T_B}} \right)$$

con $S_e(T = 0.01s)$ ordinata dello spettro di accelerazione per $T = 0.01s$, primo valore del periodo nello spettro elastico delle simulazioni numeriche.
Infine, una volta stabilito lo smorzamento di riferimento ξ, le ordinate dello spettro in pseudo-accelerazione vengono ottenute mediante le seguenti relazioni:

$0 \le T \le T_B$ $\quad S_e(T) = a_g\, S\, \eta\, F_0 \left[\frac{T}{T_B} + \frac{1}{\eta\, F_0} \left(1 - \frac{T}{T_B} \right) \right]$

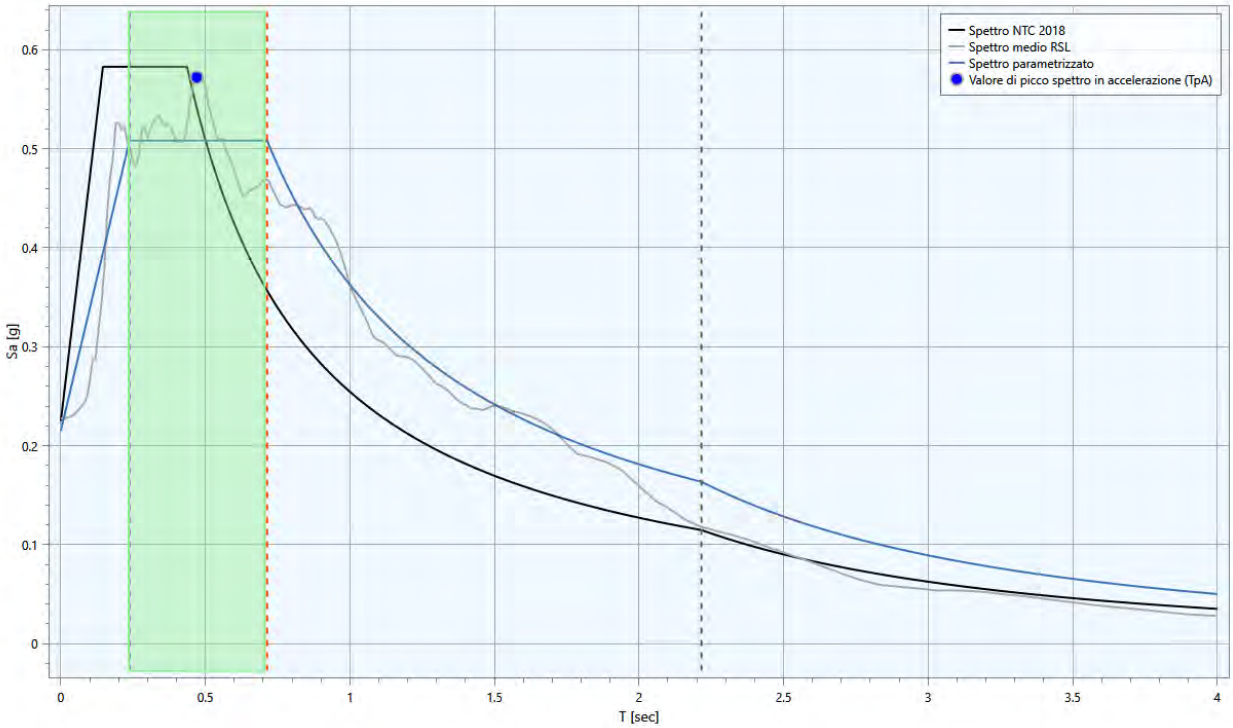
$T_B \le T \le T_C$ $\quad S_e(T) = a_g\, S\, \eta\, F_0$

$T_C \le T \le T_D$ $\quad S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C}{T} \right)$

$T \le T_D$ $\quad S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C\, T_D}{T^2} \right)$

- nelle quali:
- T periodo proprio di vibrazione;
- η è il fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali B diversi dal 5%, mediante la relazione:

$$\eta = \sqrt{10/(5 + \xi)} \ge 0.55$$



Approccio semplificato NTC 2018

Ag [g]	0.154
F0	2.591
*Tc**	0.270
Categoria stratigrafica	C
Categoria topografica	T1

Parametrizzazione RSL

TpA [sec]	0.470
0.5 TpA [sec]	0.235
1.5 TpA [sec]	0.705
Sa,medio [g]	0.508
TpV [sec]	0.920
0.8 TpV [sec]	0.736
1.2 TpV [sec]	1.104
*Sv,medio [g*s]*	0.058
amax	**0.215**
F0	**2.361**
S	**1.398**
Tb [sec]	**0.238**
Tc [sec]	**0.713**
Td [sec]	**2.216**

Parametrizza

- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido

PGA - FPGA = 1.31

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s per i due spettri indicati (superficie e suolo rigido)

SA1 - FA0105 = 1.29
SA2 - FA0408 = 2.38
SA3 - FA0711 = 2.87
SA4 - FA0515 = 2.79

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido)

SI1 - FH0105 = 1.27
SI2 - FH0510 = 2.53
Si3 - FH0515 = 2.61

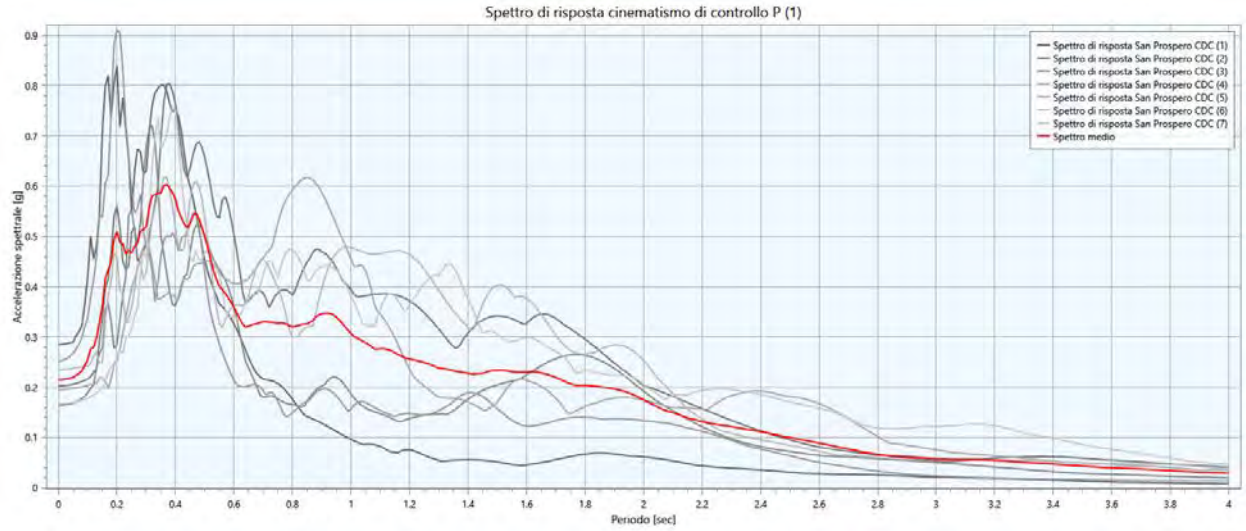
- il valore di H_{XX}, che rappresenta lo scuotimento atteso in valore assoluto (accelerazione in cm/s²), dato dal prodotto del parametro Acceleration Spectrum Intensity (ASI_{PU}), valore integrale dello spettro di riferimento in accelerazione, diviso per ΔT e moltiplicato per il fattore di amplificazione in accelerazione calcolato per lo stesso intervallo di periodi

H_{ms} = 464.22 cm/s²
H_{0408} = 494.28 cm/s²
H_{0711} = 480.31 cm/s²
H_{0515} = 363.11 cm/s²

7.5.3 Zone stabili suscettibili di amplificazioni locali (2003)

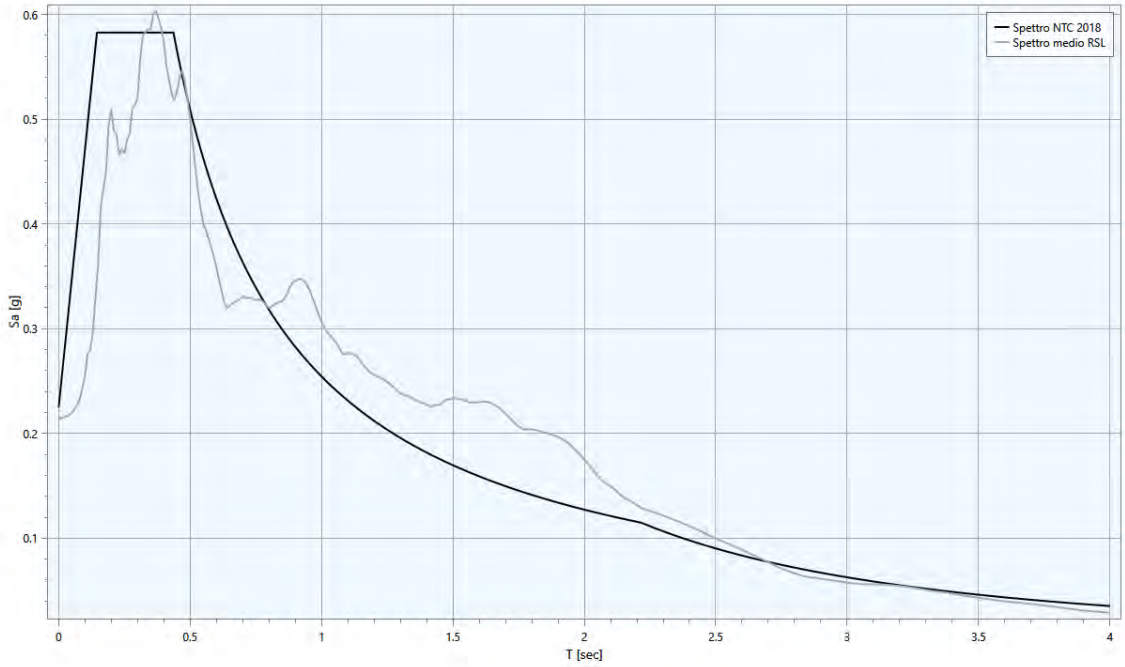
Si riportano di seguito:

Spettri di risposta in superficie in campo di free-field



Spettri di accelerazione desunti dall'analisi di Risposta sismica locale. In rosso, come richiesto da normativa è rappresentato lo spettro medio dei 7 accelerogrammi naturali di input

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18.



Confronto tra lo spettri medio desunto dall'analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016.
In particolare, tale procedura fornisce i parametri per l'inserimento dello spettro elastico all'interno di codici di calcolo per l'analisi strutturale finalizzati alla progettazione delle strutture in zona sismica. Tali parametri sono:

- S coefficiente di amplificazione che tiene conto delle condizioni stratigrafiche e delle condizioni topografiche da cui è possibile stimare $a_{max} = S\, a_g$ dove a_{max} e a_g rappresentano rispettivamente l'accelerazione d'ancoraggio dello spettro di risposta con effetti di sito e l'accelerazione orizzontale massima su suolo di tipo A;
- T_B è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;
- T_C è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro;
- T_D è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro;
- F_0 fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale.

Di seguito vengono riportati i vari steps della procedura:

m) Si calcola lo spettro di pseudoaccelerazione (S_A) e si determina il periodo proprio (T_A) per il quale è massimo il valore dello spettro di pseudoaccelerazione;

n) Si calcola il valore medio dello spettro ($S_{A,m}$) nell'intorno di T_A tra $0.5\,T_A$ e $1.5\,T_A$, questo valore sarà assunto come valore costante del tratto ad accelerazione costante dello spettro standard:

$$S_{A,m} = \frac{1}{T_A} \int_{0.5\,T_A}^{1.5\,T_A} S_A(T)dT$$

o) Si determina lo spettro di pseudovelocità (S_V) a partire da quello di accelerazione, moltiplicando le ordinate spettrali di quest'ultimo per l'inverso della corrispondente frequenza circolare $\omega = 2\pi/T$:

$$S_V(T) = S_A(T)\frac{T}{2\pi}$$

e quindi si individua il periodo (T_V) per il quale è massimo il valore dello spettro di pseudovelocità;

p) Si calcola il valore medio dello spettro ($S_{V,m}$) nell'intorno di T_V nell'intorno tra $0.8\,T_V$ e $1.2\,T_V$:

$$S_{V,m} = \frac{1}{0.4\,T_V} \int_{0.8\,T_V}^{1.2\,T_V} S_V(T)dT$$

q) Si determina il periodo in corrispondenza del quale si incontrano i due rami dello spettro ad accelerazione costante e velocità costante:

$$T_C = 2\pi \frac{S_{V,m}}{S_{A,m}}$$

r) Si determina $T_B = \frac{1}{3} T_C$, $T_D = 4.0 \frac{a_g}{g} + 1.6$ ed $S = \frac{a_{max}}{a_g}$ con a_{max} punto di ancoraggio a T=0 dello spettro di output. Poiché il valore di amax non è generalmente fornito nello spettro delle simulazioni numeriche si procede per estrapolazione lineare, secondo la seguente equazione:

$$a_{max} = \left(\frac{S_e(T = 0.01s)}{S_{A,m}} - \frac{0.01}{T_B} \right) \left(\frac{S_{A,m}}{1 - \frac{0.01}{T_B}} \right)$$

con $S_e(T = 0.01s)$ ordinata dello spettro di accelerazione per $T = 0.01s$, primo valore del periodo nello spettro elastico delle simulazioni numeriche.
Infine, una volta stabilito lo smorzamento di riferimento ξ, le ordinate dello spettro in pseudo-accelerazione vengono ottenute mediante le seguenti relazioni:

$0 \le T \le T_B$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left[\frac{T}{T_B} + \frac{1}{\eta\, F_0} \left(1 - \frac{T}{T_B} \right) \right]$$

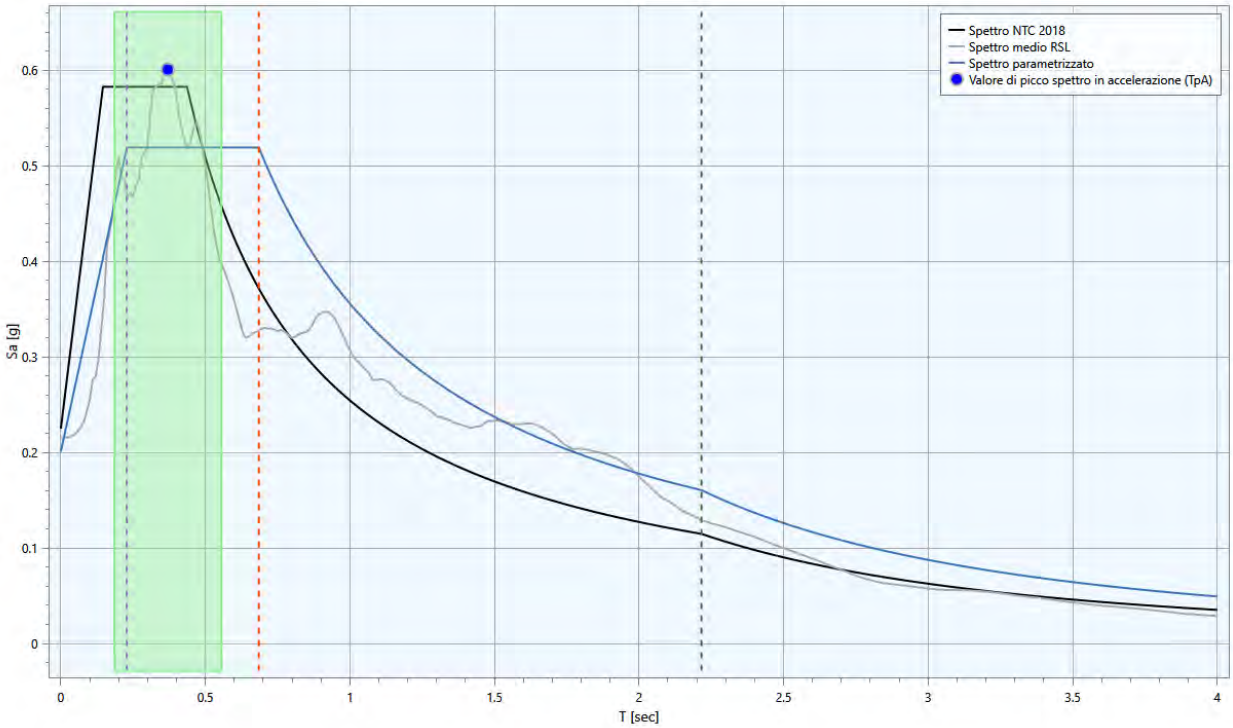
$T_B \le T \le T_C$ $$S_e(T) = a_g\, S\, \eta\, F_0$$

$T_C \le T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C}{T} \right)$$

$T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C\, T_D}{T^2} \right)$$

- nelle quali:
- T periodo proprio di vibrazione;
- η è il fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali B diversi dal 5%, mediante la relazione:

$$\eta = \sqrt{10/(5 + \xi)} \ge 0.55$$



Approccio semplificato NTC 2018

Ag [g]	0.154
F0	2.591
*Tc**	0.270
Categoria stratigrafica	C
Categoria topografica	T1

Parametrizzazione RSL

TpA [sec]	0.370
0.5 TpA [sec]	0.185
1.5 TpA [sec]	0.555
Sa,medio [g]	0.519
TpV [sec]	1.650
0.8 TpV [sec]	1.320
1.2 TpV [sec]	1.980
*Sv,medio [g*s]*	0.057
amax	**0.201**
F0	**2.585**
S	**1.305**
Tb [sec]	**0.228**
Tc [sec]	**0.685**
Td [sec]	**2.216**

Parametrizza

- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido

PGA - FPGA = 1.23

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s per i due spettri indicati (superficie e suolo rigido)

SA1 - FA0105 = 1.30
SA2 - FA0408 = 1.95
SA3 - FA0711 = 2.36
SA4 - FA0515 = 2.33

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido)

SI1 - FH0105 = 1.35
SI2 - FH0510 = 2.00
Si3 - FH0515 = 2.22

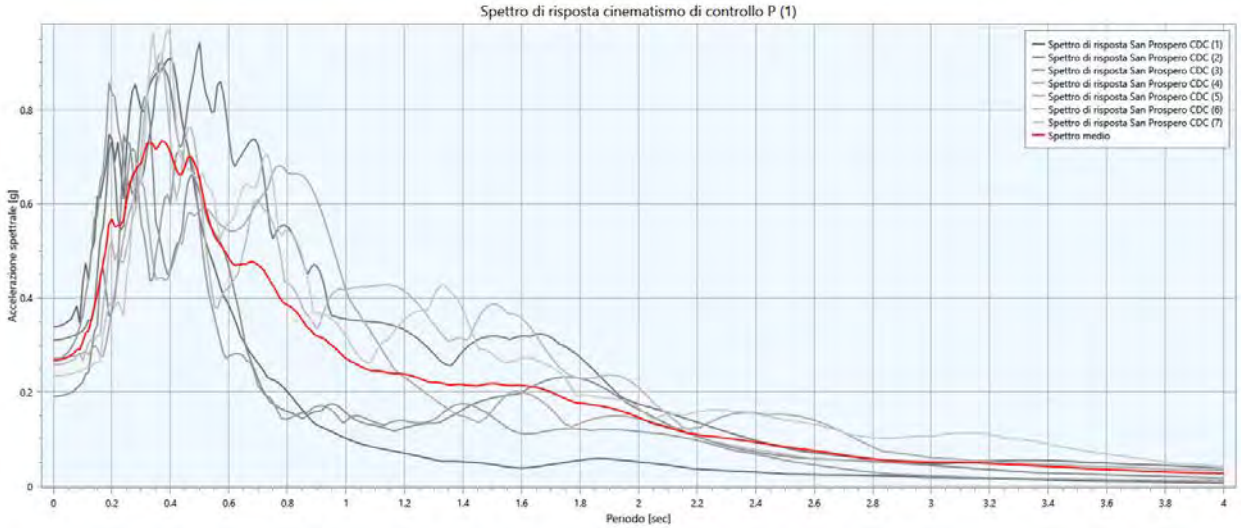
- il valore di H_{XX}, che rappresenta lo scuotimento atteso in valore assoluto (accelerazione in cm/s²), dato dal prodotto del parametro Acceleration Spectrum Intensity (ASI_{PU}), valore integrale dello spettro di riferimento in accelerazione, diviso per ΔT e moltiplicato per il fattore di amplificazione in accelerazione calcolato per lo stesso intervallo di periodi

H_{ms} = 468.83 cm/s²
H_{0408} = 404.25 cm/s²
H_{0711} = 386.67 cm/s²
H_{0515} = 297.97 cm/s²

7.5.4 Zone di Attenzione per Instabilità ZA_{LQ} 30502004

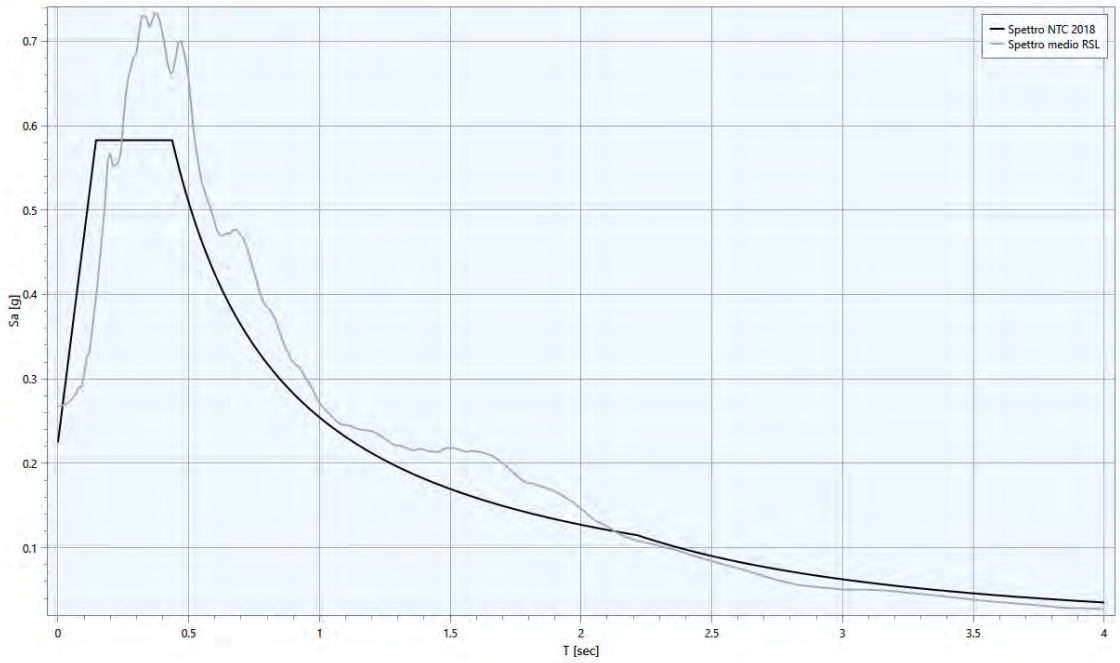
Si riportano di seguito:

Spettri di risposta in superficie in campo di free-field



Spettri di accelerazione desunti dall'analisi di Risposta sismica locale. In rosso, come richiesto da normativa è rappresentato lo spettro medio dei 7 accelerogrammi naturali di input

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18.



Confronto tra lo spettri medio desunto dall'analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016.
In particolare, tale procedura fornisce i parametri per l'inserimento dello spettro elastico all'interno di codici di calcolo per l'analisi strutturale finalizzati alla progettazione delle strutture in zona sismica. Tali parametri sono:

- S coefficiente di amplificazione che tiene conto delle condizioni stratigrafiche e delle condizioni topografiche da cui è possibile stimare $a_{max} = S\, a_g$ dove a_{max} e a_g rappresentano rispettivamente l'accelerazione d'ancoraggio dello spettro di risposta con effetti di sito e l'accelerazione orizzontale massima su suolo di tipo A;
- T_B è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;
- T_C è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro;
- T_D è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro;
- F_0 fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale.

Di seguito vengono riportati i vari steps della procedura:

s) Si calcola lo spettro di pseudoaccelerazione (S_A) e si determina il periodo proprio (T_A) per il quale è massimo il valore dello spettro di pseudoaccelerazione;

t) Si calcola il valore medio dello spettro ($S_{A,m}$) nell'intorno di T_A tra $0.5\,T_A$ e $1.5\,T_A$, questo valore sarà assunto come valore costante del tratto ad accelerazione costante dello spettro standard:

$$S_{A,m} = \frac{1}{T_A} \int_{0.5\,T_A}^{1.5\,T_A} S_A(T)\,dT$$

u) Si determina lo spettro di pseudovelocità (S_V) a partire da quello di accelerazione, moltiplicando le ordinate spettrali di quest'ultimo per l'inverso della corrispondente frequenza circolare $\omega = 2\pi/T$:

$$S_V(T) = S_A(T)\frac{T}{2\pi}$$

e quindi si individua il periodo (T_V) per il quale è massimo il valore dello spettro di pseudovelocità;

v) Si calcola il valore medio dello spettro ($S_{V,m}$) nell'intorno di T_V nell'intorno tra $0.8\,T_V$ e $1.2\,T_V$:

$$S_{V,m} = \frac{1}{0.4\,T_V} \int_{0.8\,T_V}^{1.2\,T_V} S_V(T)\,dT$$

w) Si determina il periodo in corrispondenza del quale si incontrano i due rami dello spettro ad accelerazione costante e velocità costante:

$$T_C = 2\pi \frac{S_{V,m}}{S_{A,m}}$$

x) Si determina $T_B = \frac{1}{3} T_C$, $T_D = 4.0 \frac{a_g}{g} + 1.6$ ed $S = \frac{a_{max}}{a_g}$ con a_{max} punto di ancoraggio a T=0 dello spettro di output. Poiché il valore di amax non è generalmente fornito nello spettro delle simulazioni numeriche si procede per estrapolazione lineare, secondo la seguente equazione:

$$a_{max} = \left(\frac{S_e(T = 0.01s)}{S_{A,m}} - \frac{0.01}{T_B} \right) \left(\frac{S_{A,m}}{1 - \frac{0.01}{T_B}} \right)$$

con $S_e(T = 0.01s)$ ordinata dello spettro di accelerazione per $T = 0.01s$, primo valore del periodo nello spettro elastico delle simulazioni numeriche.
Infine, una volta stabilito lo smorzamento di riferimento ξ, le ordinate dello spettro in pseudo-accelerazione vengono ottenute mediante le seguenti relazioni:

$0 \le T \le T_B$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left[\frac{T}{T_B} + \frac{1}{\eta\, F_0} \left(1 - \frac{T}{T_B} \right) \right]$$

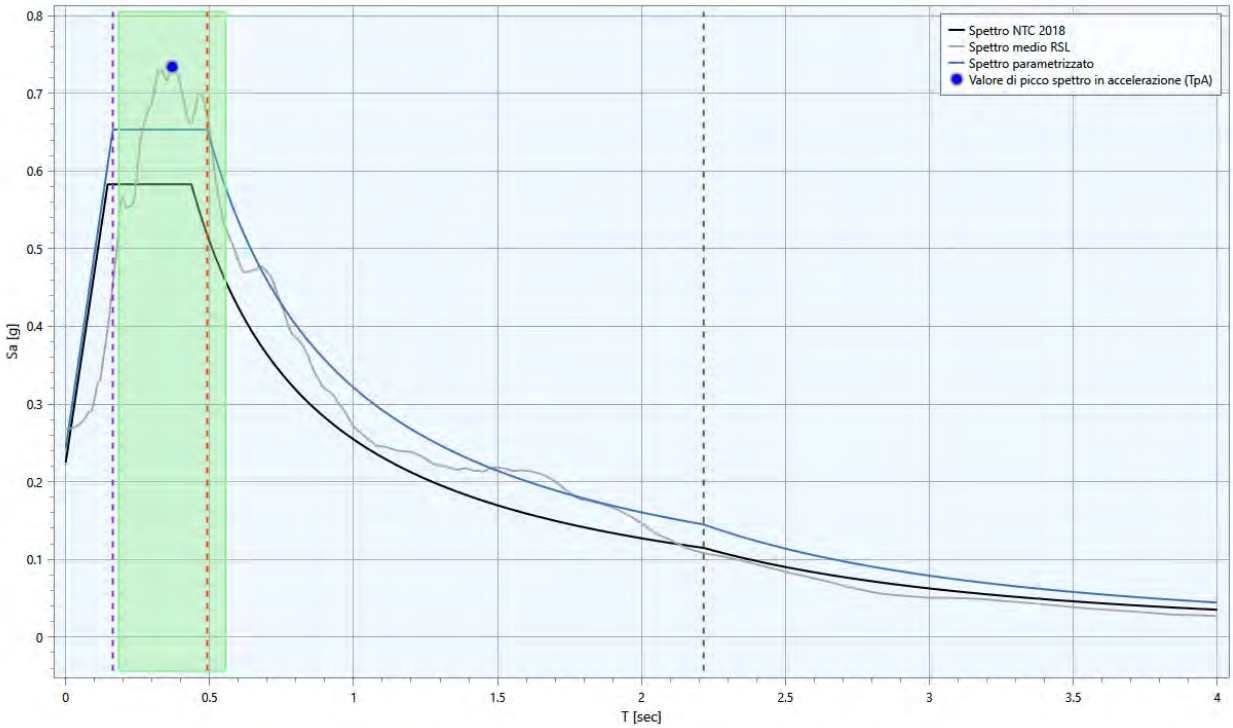
$T_B \le T \le T_C$ $$S_e(T) = a_g\, S\, \eta\, F_0$$

$T_C \le T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C}{T} \right)$$

$T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C\, T_D}{T^2} \right)$$

- nelle quali:
- T periodo proprio di vibrazione;
- η è il fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali B diversi dal 5%, mediante la relazione:

$$\eta = \sqrt{10/(5 + \xi)} \ge 0.55$$



Approccio semplificato NTC 2018

Ag [g]	0.154
F0	2.591
*Tc**	0.270
Categoria stratigrafica	C
Categoria topografica	T1

Parametrizzazione RSL

TpA [sec]	0.370
0.5 TpA [sec]	0.185
1.5 TpA [sec]	0.555
Sa,medio [g]	0.653
TpV [sec]	1.650
0.8 TpV [sec]	1.320
1.2 TpV [sec]	1.980
*Sv,medio [g*s]*	0.051
amax	**0.243**
F0	**2.687**
S	**1.579**
Tb [sec]	**0.164**
Tc [sec]	**0.492**
Td [sec]	**2.216**

Parametrizza

- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido

PGA - FPGA = 1.54

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s per i due spettri indicati (superficie e suolo rigido)

SA1 - FA0105 = 1.61
SA2 - FA0408 = 2.55
SA3 - FA0711 = 2.41
SA4 - FA0515 = 2.51

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido)

SI1 - FH0105 = 1.70
SI2 - FH0510 = 2.40
Si3 - FH0515 = 2.38

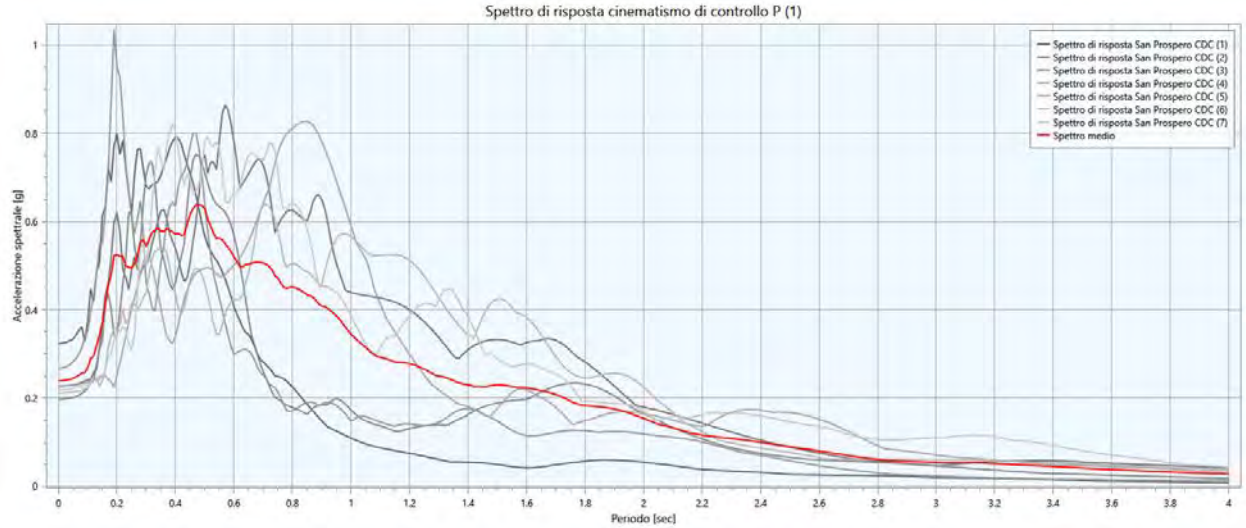
- il valore di H_{XX}, che rappresenta lo scuotimento atteso in valore assoluto (accelerazione in cm/s²), dato dal prodotto del parametro Acceleration Spectrum Intensity (ASI_{PU}), valore integrale dello spettro di riferimento in accelerazione, diviso per ΔT e moltiplicato per il fattore di amplificazione in accelerazione calcolato per lo stesso intervallo di periodi

H_{ms} = 576.73 cm/s²
H_{0408} = 535.17 cm/s²
H_{0711} = 395.05 cm/s²
H_{0515} = 323.82 cm/s²

7.5.5 Zone di Attenzione per Instabilità ZA_{LQ} 30502005

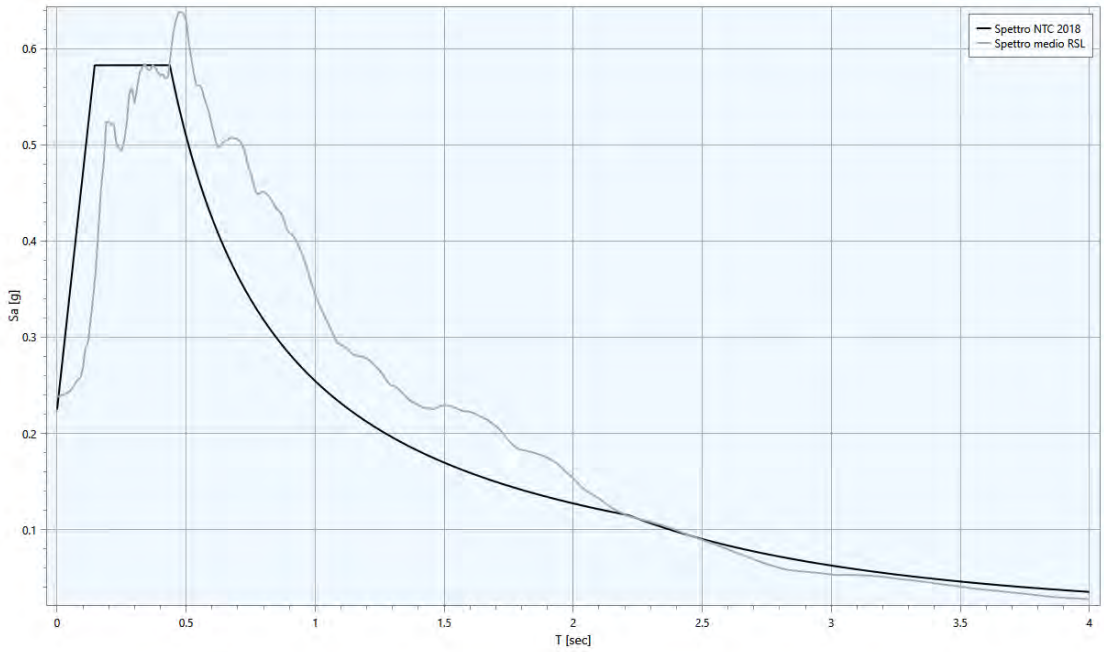
Si riportano di seguito:

Spettri di risposta in superficie in campo di free-field



Spettri di accelerazione desunti dall'analisi di Risposta sismica locale. In rosso, come richiesto da normativa è rappresentato lo spettro medio dei 7 accelerogrammi naturali di input

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18.



Confronto tra lo spettri medio desunto dall'analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016.
In particolare, tale procedura fornisce i parametri per l'inserimento dello spettro elastico all'interno di codici di calcolo per l'analisi strutturale finalizzati alla progettazione delle strutture in zona sismica. Tali parametri sono:

- S coefficiente di amplificazione che tiene conto delle condizioni stratigrafiche e delle condizioni topografiche da cui è possibile stimare $a_{max} = S\, a_g$ dove a_{max} e a_g rappresentano rispettivamente l'accelerazione d'ancoraggio dello spettro di risposta con effetti di sito e l'accelerazione orizzontale massima su suolo di tipo A;
- T_B è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;
- T_C è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro;
- T_D è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro;
- F_0 fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale.

Di seguito vengono riportati i vari steps della procedura:

y) Si calcola lo spettro di pseudoaccelerazione (S_A) e si determina il periodo proprio (T_A) per il quale è massimo il valore dello spettro di pseudoaccelerazione;

z) Si calcola il valore medio dello spettro ($S_{A,m}$) nell'intorno di T_A tra $0.5\,T_A$ e $1.5\,T_A$, questo valore sarà assunto come valore costante del tratto ad accelerazione costante dello spettro standard:

$$S_{A,m} = \frac{1}{T_A} \int_{0.5\,T_A}^{1.5\,T_A} S_A(T)\,dT$$

aa) Si determina lo spettro di pseudovelocità (S_V) a partire da quello di accelerazione, moltiplicando le ordinate spettrali di quest'ultimo per l'inverso della corrispondente frequenza circolare $\omega = 2\pi/T$:

$$S_V(T) = S_A(T)\frac{T}{2\pi}$$

e quindi si individua il periodo (T_V) per il quale è massimo il valore dello spettro di pseudovelocità;

bb) Si calcola il valore medio dello spettro ($S_{V,m}$) nell'intorno di T_V nell'intorno tra $0.8\,T_V$ e $1.2\,T_V$:

$$S_{V,m} = \frac{1}{0.4\,T_V} \int_{0.8\,T_V}^{1.2\,T_V} S_V(T)\,dT$$

cc) Si determina il periodo in corrispondenza del quale si incontrano i due rami dello spettro ad accelerazione costante e velocità costante:

$$T_C = 2\pi \frac{S_{V,m}}{S_{A,m}}$$

dd) Si determina $T_B = \frac{1}{3}T_C$, $T_D = 4.0\frac{a_g}{g} + 1.6$ ed $S = \frac{a_{max}}{a_g}$ con a_{max} punto di ancoraggio a T=0 dello spettro di output. Poiché il valore di amax non è generalmente fornito nello spettro delle simulazioni numeriche si procede per estrapolazione lineare, secondo la seguente equazione:

$$a_{max} = \left(\frac{S_e(T = 0.01s)}{S_{A,m}} - \frac{0.01}{T_B}\right)\left(\frac{S_{A,m}}{1 - \frac{0.01}{T_B}}\right)$$

con $S_e(T = 0.01s)$ ordinata dello spettro di accelerazione per $T = 0.01s$, primo valore del periodo nello spettro elastico delle simulazioni numeriche.
Infine, una volta stabilito lo smorzamento di riferimento ξ, le ordinate dello spettro in pseudo-accelerazione vengono ottenute mediante le seguenti relazioni:

$0 \le T \le T_B$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left[\frac{T}{T_B} + \frac{1}{\eta\, F_0}\left(1 - \frac{T}{T_B}\right)\right]$$

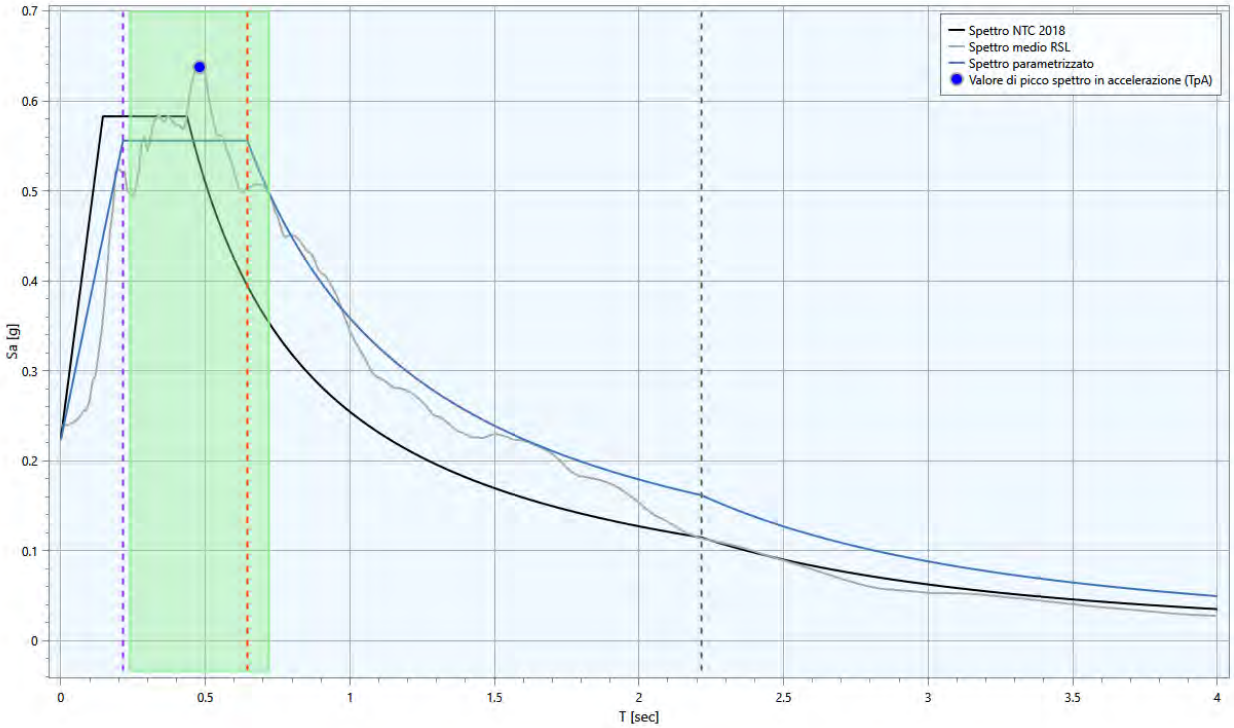
$T_B \le T \le T_C$ $$S_e(T) = a_g\, S\, \eta\, F_0$$

$T_C \le T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C}{T}\right)$$

$T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C\, T_D}{T^2}\right)$$

- nelle quali:
- T periodo proprio di vibrazione;
- η è il fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali B diversi dal 5%, mediante la relazione:

$$\eta = \sqrt{10/(5 + \xi)} \ge 0.55$$



Approccio semplificato NTC 2018

Ag [g]	0.154
F0	2.591
*Tc**	0.270
Categoria stratigrafica	C
Categoria topografica	T1

Parametrizzazione RSL

TpA [sec]	0.370
0.5 TpA [sec]	0.185
1.5 TpA [sec]	0.555
Sa,medio [g]	0.676
TpV [sec]	1.650
0.8 TpV [sec]	1.320
1.2 TpV [sec]	1.980
*Sv,medio [g*s]*	0.049
amax	**0.244**
F0	**2.772**
S	**1.583**
Tb [sec]	**0.152**
Tc [sec]	**0.456**
Td [sec]	**2.216**
	Parametrizza

- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido

PGA - FPGA = 1.38

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s per i due spettri indicati (superficie e suolo rigido)

SA1 - FA0105 = 1.37
SA2 - FA0408 = 2.60
SA3 - FA0711 = 2.83
SA4 - FA0515 = 2.82

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido)

SI1 - FH0105 = 1.36
SI2 - FH0510 = 2.65
Si3 - FH0515 = 2.64

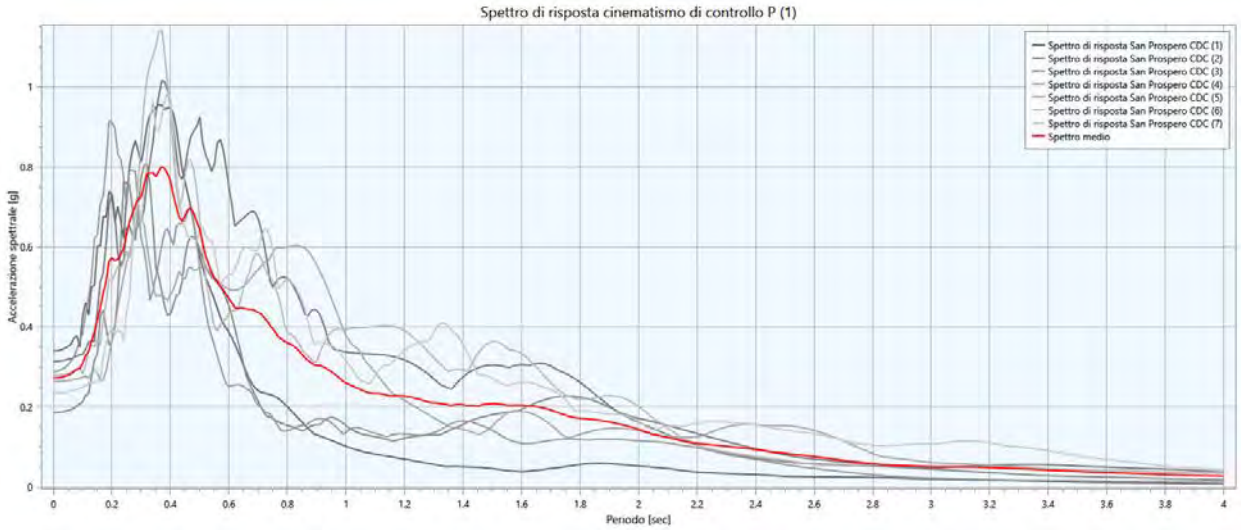
- il valore di H_{XX}, che rappresenta lo scuotimento atteso in valore assoluto (accelerazione in cm/s²), dato dal prodotto del parametro Acceleration Spectrum Intensity (ASI_{PU}), valore integrale dello spettro di riferimento in accelerazione, diviso per ΔT e moltiplicato per il fattore di amplificazione in accelerazione calcolato per lo stesso intervallo di periodi

H_{ms} = 492.47 cm/s²
H_{0408} = 539.51 cm/s²
H_{0711} = 472.39 cm/s²
H_{0515} = 365.91 cm/s²

7.5.6 Zone di Attenzione per Instabilità ZA_{LQ} 30502006

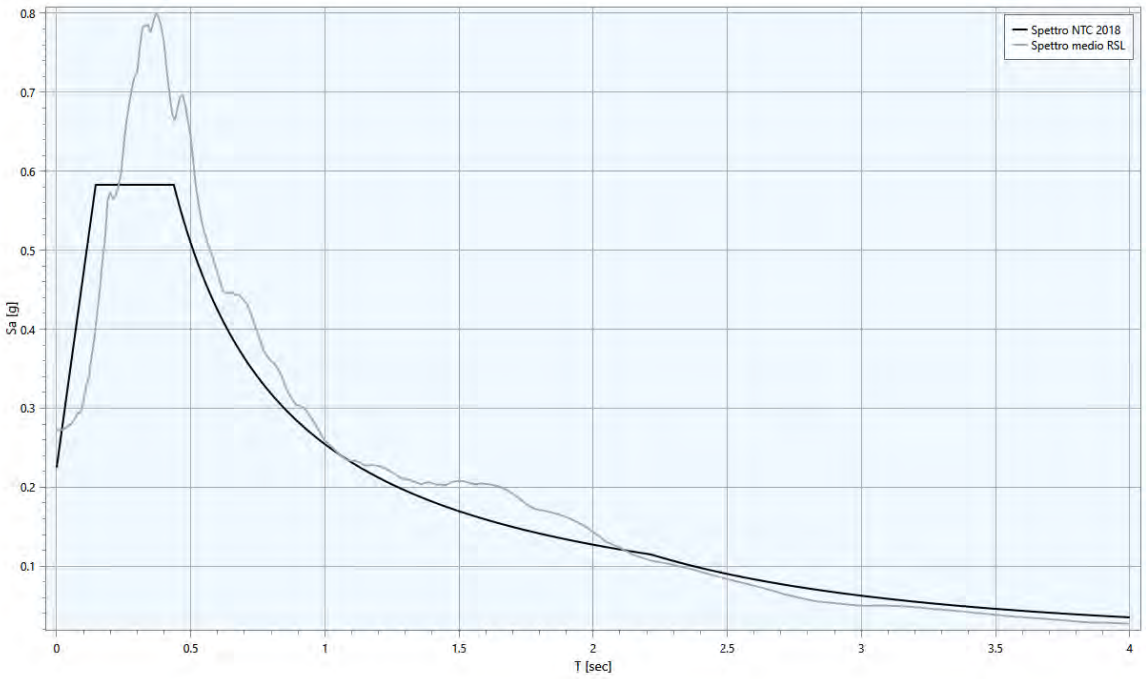
Si riportano di seguito:

Spettri di risposta in superficie in campo di free-field



Spettri di accelerazione desunti dall'analisi di Risposta sismica locale. In rosso, come richiesto da normativa è rappresentato lo spettro medio dei 7 accelerogrammi naturali di input

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18.



Confronto tra lo spettri medio desunto dall'analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016.
In particolare, tale procedura fornisce i parametri per l'inserimento dello spettro elastico all'interno di codici di calcolo per l'analisi strutturale finalizzati alla progettazione delle strutture in zona sismica. Tali parametri sono:

- S coefficiente di amplificazione che tiene conto delle condizioni stratigrafiche e delle condizioni topografiche da cui è possibile stimare $a_{max} = S\, a_g$ dove a_{max} e a_g rappresentano rispettivamente l'accelerazione d'ancoraggio dello spettro di risposta con effetti di sito e l'accelerazione orizzontale massima su suolo di tipo A;
- T_B è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;
- T_C è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro;
- T_D è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro;
- F_0 fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale.

Di seguito vengono riportati i vari steps della procedura:

ee) Si calcola lo spettro di pseudoaccelerazione (S_A) e si determina il periodo proprio (T_A) per il quale è massimo il valore dello spettro di pseudoaccelerazione;

ff) Si calcola il valore medio dello spettro ($S_{A,m}$) nell'intorno di T_A tra $0.5\,T_A$ e $1.5\,T_A$, questo valore sarà assunto come valore costante del tratto ad accelerazione costante dello spettro standard:

$$S_{A,m} = \frac{1}{T_A} \int_{0.5\,T_A}^{1.5\,T_A} S_A(T)\,dT$$

gg) Si determina lo spettro di pseudovelocità (S_V) a partire da quello di accelerazione, moltiplicando le ordinate spettrali di quest'ultimo per l'inverso della corrispondente frequenza circolare $\omega = 2\pi/T$:

$$S_V(T) = S_A(T)\frac{T}{2\pi}$$

e quindi si individua il periodo (T_V) per il quale è massimo il valore dello spettro di pseudovelocità;

hh) Si calcola il valore medio dello spettro ($S_{V,m}$) nell'intorno di T_V nell'intorno tra $0.8\,T_V$ e $1.2\,T_V$:

$$S_{V,m} = \frac{1}{0.4\,T_V} \int_{0.8\,T_V}^{1.2\,T_V} S_V(T)\,dT$$

ii) Si determina il periodo in corrispondenza del quale si incontrano i due rami dello spettro ad accelerazione costante e velocità costante:

$$T_C = 2\pi \frac{S_{V,m}}{S_{A,m}}$$

jj) Si determina $T_B = \frac{1}{3} T_C$, $T_D = 4.0 \frac{a_g}{g} + 1.6$ ed $S = \frac{a_{max}}{a_g}$ con a_{max} punto di ancoraggio a T=0 dello spettro di output. Poiché il valore di amax non è generalmente fornito nello spettro delle simulazioni numeriche si procede per estrapolazione lineare, secondo la seguente equazione:

$$a_{max} = \left(\frac{S_e(T = 0.01s)}{S_{A,m}} - \frac{0.01}{T_B} \right) \left(\frac{S_{A,m}}{1 - \frac{0.01}{T_B}} \right)$$

con $S_e(T = 0.01s)$ ordinata dello spettro di accelerazione per $T = 0.01s$, primo valore del periodo nello spettro elastico delle simulazioni numeriche.
Infine, una volta stabilito lo smorzamento di riferimento ξ, le ordinate dello spettro in pseudo-accelerazione vengono ottenute mediante le seguenti relazioni:

$0 \leq T \leq T_B$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left[\frac{T}{T_B} + \frac{1}{\eta\, F_0} \left(1 - \frac{T}{T_B} \right) \right]$$

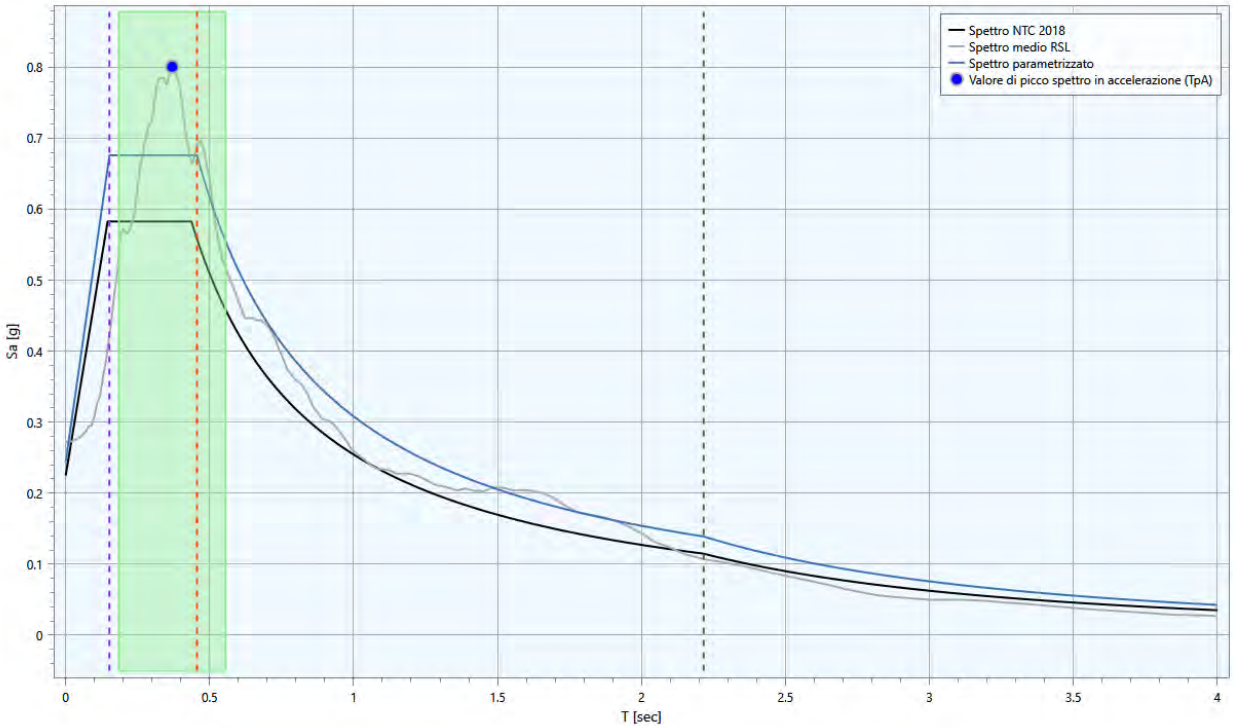
$T_B \leq T \leq T_C$ $$S_e(T) = a_g\, S\, \eta\, F_0$$

$T_C \leq T \leq T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C}{T} \right)$$

$T \leq T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C\, T_D}{T^2} \right)$$

- nelle quali:
- T periodo proprio di vibrazione;
- η è il fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali B diversi dal 5%, mediante la relazione:

$$\eta = \sqrt{10/(5 + \xi)} \geq 0.55$$



Approccio semplificato NTC 2018

Ag [g]	0.154
F0	2.591
*Tc**	0.270
Categoria stratigrafica	C
Categoria topografica	T1

Parametrizzazione RSL

TpA [sec]	0.480
0.5 TpA [sec]	0.240
1.5 TpA [sec]	0.720
Sa,medio [g]	0.556
TpV [sec]	0.870
0.8 TpV [sec]	0.696
1.2 TpV [sec]	1.044
*Sv,medio [g*s]*	0.057
amax	**0.223**
F0	**2.488**
S	**1.451**
Tb [sec]	**0.215**
Tc [sec]	**0.645**
Td [sec]	**2.216**

Parametrizza

- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido

PGA - FPGA = 1.56

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s per i due spettri indicati (superficie e suolo rigido)

SA1 - FA0105 = 1.67
SA2 - FA0408 = 2.48
SA3 - FA0711 = 2.29
SA4 - FA0515 = 2.40

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido)

SI1 - FH0105 = 1.77
SI2 - FH0510 = 2.32
Si3 - FH0515 = 2.29

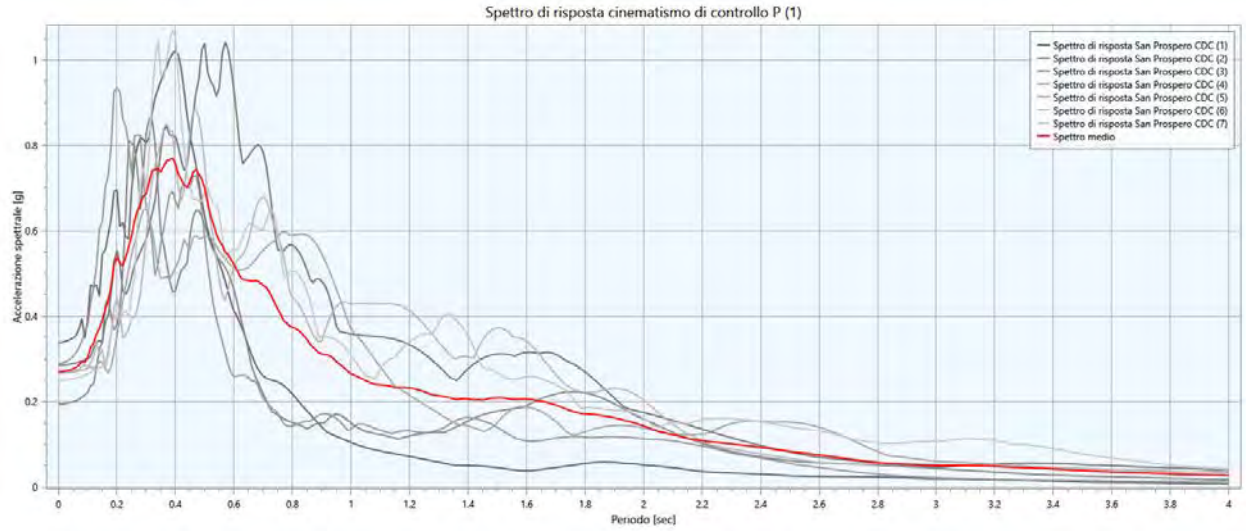
- il valore di H_{XX}, che rappresenta lo scuotimento atteso in valore assoluto (accelerazione in cm/s^2), dato dal prodotto del parametro Acceleration Spectrum Intensity (ASI_{PU}), valore integrale dello spettro di riferimento in accelerazione, diviso per ΔT e moltiplicato per il fattore di amplificazione in accelerazione calcolato per lo stesso intervallo di periodi

H_{ms} = 600.65 cm/s^2
H_{0408} = 520.39 cm/s^2
H_{0711} = 372.37 cm/s^2
H_{0515} = 308.00 cm/s^2

7.5.7 Zone di Attenzione per Instabilità ZA_{LQ} 30502007

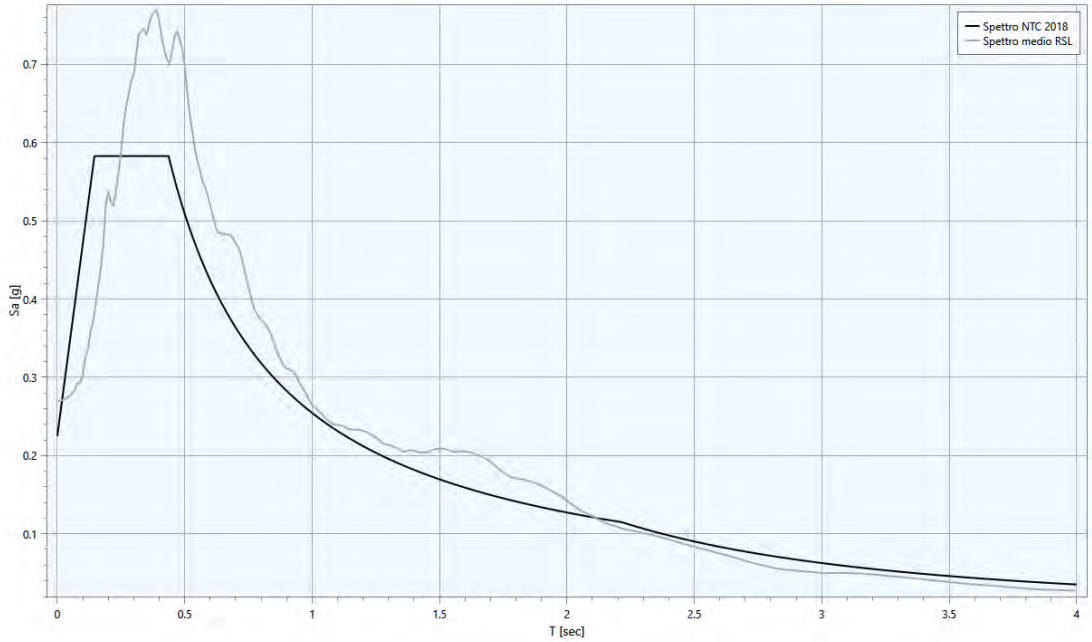
Si riportano di seguito:

Spettri di risposta in superficie in campo di free-field



Spettri di accelerazione desunti dall'analisi di Risposta sismica locale. In rosso, come richiesto da normativa è rappresentato lo spettro medio dei 7 accelerogrammi naturali di input

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18.



Confronto tra lo spettri medio desunto dall'analisi di RSL e lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18

Si riporta di seguito il confronto tra lo spettro medio desunto dalle analisi di RSL, lo spettro semplificato di normativa per una categoria di sottosuolo di tipo "C" da NTC18 e lo spettro normalizzato con l'approccio rigoroso secondo l'Ordinanza n.55 del 24 aprile 2018 del Commissario del Governo per la Ricostruzione nei territori interessati dal sisma del 24 agosto 2016.
In particolare, tale procedura fornisce i parametri per l'inserimento dello spettro elastico all'interno di codici di calcolo per l'analisi strutturale finalizzati alla progettazione delle strutture in zona sismica. Tali parametri sono:

- S coefficiente di amplificazione che tiene conto delle condizioni stratigrafiche e delle condizioni topografiche da cui è possibile stimare $a_{max} = S\, a_g$ dove a_{max} e a_g rappresentano rispettivamente l'accelerazione d'ancoraggio dello spettro di risposta con effetti di sito e l'accelerazione orizzontale massima su suolo di tipo A;
- T_B è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante;
- T_C è il periodo corrispondente all'inizio del tratto a velocità costante dello spettro;
- T_D è il periodo corrispondente all'inizio del tratto a spostamento costante dello spettro;
- F_0 fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale.

Di seguito vengono riportati i vari steps della procedura:

kk) Si calcola lo spettro di pseudoaccelerazione (S_A) e si determina il periodo proprio (T_A) per il quale è massimo il valore dello spettro di pseudoaccelerazione;

ll) Si calcola il valore medio dello spettro ($S_{A,m}$) nell'intorno di T_A tra $0.5\,T_A$ e $1.5\,T_A$, questo valore sarà assunto come valore costante del tratto ad accelerazione costante dello spettro standard:

$$S_{A,m} = \frac{1}{T_A} \int_{0.5\,T_A}^{1.5\,T_A} S_A(T)\,dT$$

mm) Si determina lo spettro di pseudovelocità (S_V) a partire da quello di accelerazione, moltiplicando le ordinate spettrali di quest'ultimo per l'inverso della corrispondente frequenza circolare $\omega = 2\pi/T$:

$$S_V(T) = S_A(T)\frac{T}{2\pi}$$

e quindi si individua il periodo (T_V) per il quale è massimo il valore dello spettro di pseudovelocità;

nn) Si calcola il valore medio dello spettro ($S_{V,m}$) nell'intorno di T_V nell'intorno tra $0.8\,T_V$ e $1.2\,T_V$:

$$S_{V,m} = \frac{1}{0.4\,T_V} \int_{0.8\,T_V}^{1.2\,T_V} S_V(T)\,dT$$

oo) Si determina il periodo in corrispondenza del quale si incontrano i due rami dello spettro ad accelerazione costante e velocità costante:

$$T_C = 2\pi \frac{S_{V,m}}{S_{A,m}}$$

pp) Si determina $T_B = \frac{1}{3}T_C$, $T_D = 4.0\frac{a_g}{g} + 1.6$ ed $S = \frac{a_{max}}{a_g}$ con a_{max} punto di ancoraggio a T=0 dello spettro di output. Poiché il valore di amax non è generalmente fornito nello spettro delle simulazioni numeriche si procede per estrapolazione lineare, secondo la seguente equazione:

$$a_{max} = \left(\frac{S_e(T = 0.01s)}{S_{A,m}} - \frac{0.01}{T_B}\right)\left(\frac{S_{A,m}}{1 - \frac{0.01}{T_B}}\right)$$

con $S_e(T = 0.01s)$ ordinata dello spettro di accelerazione per $T = 0.01s$, primo valore del periodo nello spettro elastico delle simulazioni numeriche.
Infine, una volta stabilito lo smorzamento di riferimento ξ, le ordinate dello spettro in pseudo-accelerazione vengono ottenute mediante le seguenti relazioni:

$0 \le T \le T_B$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left[\frac{T}{T_B} + \frac{1}{\eta\, F_0}\left(1 - \frac{T}{T_B}\right)\right]$$

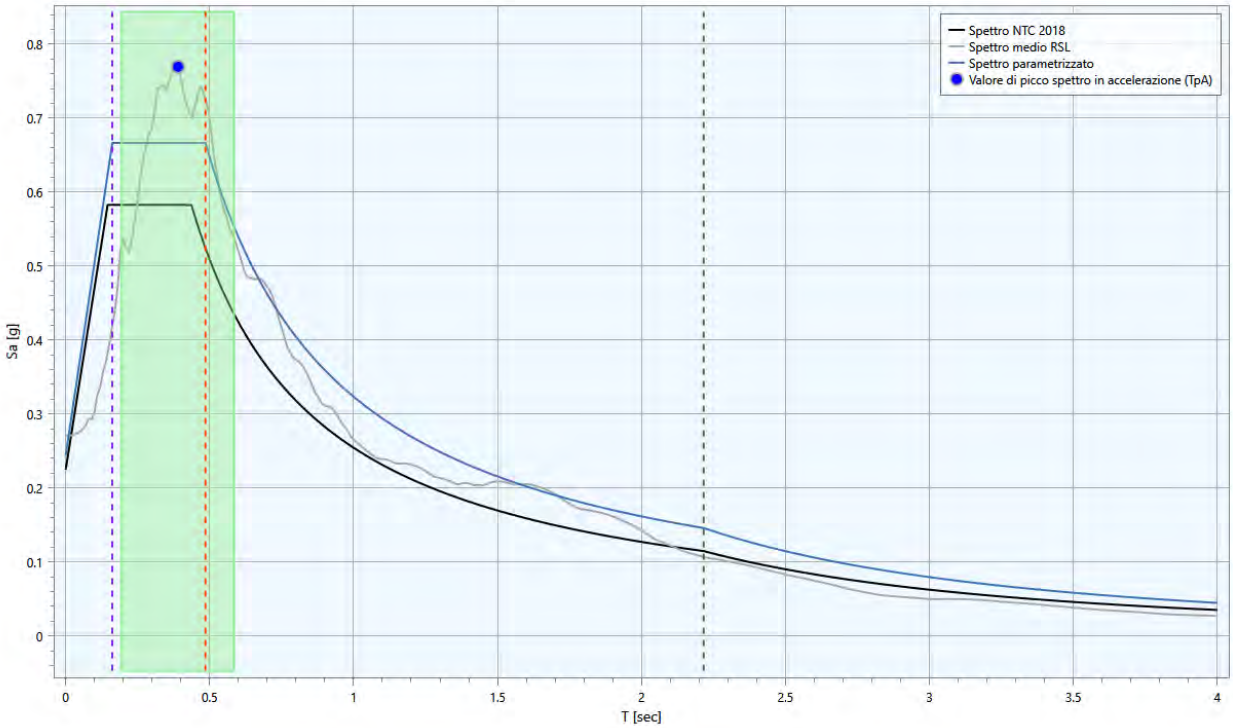
$T_B \le T \le T_C$ $$S_e(T) = a_g\, S\, \eta\, F_0$$

$T_C \le T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C}{T}\right)$$

$T \le T_D$ $$S_e(T) = a_g\, S\, \eta\, F_0 \left(\frac{T_C\, T_D}{T^2}\right)$$

- nelle quali:
- T periodo proprio di vibrazione;
- η è il fattore che altera lo spettro elastico per coefficienti di smorzamento viscosi convenzionali B diversi dal 5%, mediante la relazione:

$$\eta = \sqrt{10/(5 + \xi)} \ge 0.55$$



Approccio semplificato NTC 2018

Ag [g]	0.154
F0	2.591
*Tc**	0.270
Categoria stratigrafica	C
Categoria topografica	T1

Parametrizzazione RSL

TpA [sec]	0.480
0.5 TpA [sec]	0.240
1.5 TpA [sec]	0.720
Sa,medio [g]	0.556
TpV [sec]	0.870
0.8 TpV [sec]	0.696
1.2 TpV [sec]	1.044
*Sv,medio [g*s]*	0.057
amax	**0.223**
F0	**2.488**
S	**1.451**
Tb [sec]	**0.215**
Tc [sec]	**0.645**
Td [sec]	**2.216**

Parametrizza

- Il fattore di amplificazione in termini di picco di accelerazione (FPGA), definito come il rapporto tra l'accelerazione massima in superficie ed il valore di riferimento per il sito su suolo rigido

PGA - FPGA = 1.56

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudoaccelerazione (FA) calcolato in superficie e quello calcolato su suolo rigido negli intervalli 0.1-0.5 s, 0.4-0.8 s, 0.7-1.1 s e 0.5-1.5 s per i due spettri indicati (superficie e suolo rigido)

SA1 - FA0105 = 1.63
SA2 - FA0408 = 2.37
SA3 - FA0711 = 2.65
SA4 - FA0515 = 2.50

- Il fattore di amplificazione di sito in termini di rapporto tra intensità dello spettro di risposta in pseudovelocità (FH) calcolato in superficie e quello calcolato su suolo rigido. In sostanza viene calcolato il rapporto degli indici di Housner negli intervalli 0.1-0.5 s, 0.5-1.0 s e 0.5-1.5 s, per i due spettri indicati (superficie e suolo rigido)

SI1 - FH0105 = 1.73
SI2 - FH0510 = 2.44
Si3 - FH0515 = 2.37

- il valore di H_{XX}, che rappresenta lo scuotimento atteso in valore assoluto (accelerazione in cm/s^2), dato dal prodotto del parametro Acceleration Spectrum Intensity (ASI_{PU}), valore integrale dello spettro di riferimento in accelerazione, diviso per ΔT e moltiplicato per il fattore di amplificazione in accelerazione calcolato per lo stesso intervallo di periodi

H_{ms} = 582.60 cm/s^2
H_{0408} = 557.62 cm/s^2
H_{0711} = 386.04 cm/s^2
H_{0515} = 323.33 cm/s^2

7.6 Zone instabili per liquefazione

Per le zone suscettibili di tali possibili effetti la normativa vigente richiede approfondimenti di terzo livello.
Considerando il carattere pianeggiante del territorio ed il contesto sismotettonico in cui si colloca il terrotorio comunale, le instabilità attese si riducono a potenziali fenomeni di liquefazione.
I numerosi dati geognostici raccolti a supporto dello studio di microzonazione, sono stati singolarmente valutati rispetto alle possibili criticità legate alla natura dei terreni attraversati.
Per ottenere valutazioni quantitative della suscettibilità a liquefazione nelle aree classificate come instabili e poter suddividere il territorio in classi di rischio, sono state infine eseguite stime dell'indice di potenziale liquefazione (IL) con le procedure semplificate indicate dai recenti indirizzi regionali per la microzonazione sismica (paragrafo 7.2.1). Tali stime sono state eseguite su tutte le indagini penetrometriche meccaniche e con piezocono, raccolte e realizzate durante lo studio di microzonazione sismica (v. Allegato).

7.6.1 Verifica del potenziale di liquefazione

La liquefazione è un fenomeno che si verifica in occasione di terremoti con magnitudo M > 5.5 e interessa i sedimenti granulari (limi sabbiosi, sabbie e ghiaie sabbiose) poco addensati e saturi presenti ne primi 20 m di sottosuolo.
Durante l'evento sismico la pressione interstiziale dell'acqua, che è fluido incomprimibile, aumenta fino ad eguagliare le tensioni efficaci che legano i sedimenti granulari. L'annullamento della resistenza al tagliodovuto alle sovrappressioni indotte dallo scuotimento conduce alla liquefazione dei terreni, con conseguente perdita di capacità portante degli stessi e manifestazione di deformazioni permanenti. Già durante gli studi relativi all'Ordinanza 70/2012, furono effettuate stime del potenziale di liquefazione su indagini penetrometriche (v. Allegato 1.7 - Ordinanza 70/2012) mediante diverse procedure semplificate indicate degli indirizzi regionali (D.A.L. 112/2007, Allegato 3) e nazionali (Gruppo di lavoro MS, 2008).
Il confronto tra i vari metodi di letteratura utilizzati, tutti basati su analisi di prove penetrometriche, aveva permesso di concludere che i valori degli indici di liquefazione IL (Iwasaki *et al.,* 1982) ottenuti con il metodo di Idriss e Boulanger (2008) fossero i meglio compatibili con gli effetti osservati, e venissero dunque utilizzati per la redazione delle mappe.
Per gli approfondimenti di terzo livello di microzonazione sismica sono state eseguite stime del potenziale di liquefazione anche con il più recente metodo di Boulanger e Idriss (2014), suggerito dalla D.G.R. 630/2019. Sono state quindi analizzate 171 verticali

d'indagine realizzate con punta meccanica (CPTm) ed elettrica e piezocono (CPTu) distribuite su tutto il territorio comunale come riportatato nelle carte.
Come parametri di input per la modellazione sono stati utilizzati i valori riportati in Il valore di Mw momento corrisponde a quello massimo atteso per la Zona 912 della Zonazione Sismogenetica ZS9 (Meletti e Valensise, 2004), mentre la PGA è stata derivata moltiplicando l'agref per il fattore massimo, in via cautelativa, ottenuto dalla modellazione numerica di risposta sismica locale.
I valori puntuali di IL, ottenuti mediante il software "Cliq 3.0" della Geologismiki Geotechnical Software, sono rappresentati in carta suddivisi per classi, secondo Sonmez (2003), in modo da poter distinguere tra aree a rischio di liquefazione basso (0< IL ≤2), moderato (2< IL ≤5), alto (5< IL ≤15) e molto alto (IL >15).
In Tabella sottostante sono riportati i valori di IL relativi a tutte le 171 indagini penetrometriche analizzate per gli approfondimenti di terzo livello dello studio, mentre nell'Allegato sono raccolti i rapporti di calcolo delle verifiche a liquefazione eseguite sulle prove utilizzate ai fini di microzonazione di sismica.

CODICE BANCA DATI	PGA	IL (Boulanger & Idriss 2014)
036039P100AL280IL96273	0.23	0.00
036039P102AL425IL96418	0.23	1.89
036039P103AL268IL96261	0.23	0.00
036039P104AL269IL96262	0.23	10.26
036039P106AL383IL96376	0.23	0.00
036039P108AL260IL96253	0.23	0.65
036039P109AL384IL96377	0.23	0.31
036039P10AL35196344	0.23	6.46
036039P110AL396IL96389	0.23	0.00
036039P111AL397IL96390	0.23	0.85
036039P112AL358IL96351	0.23	0.00
036039P113AL359IL96352	0.23	0.00
036039P116AL278IL96271	0.23	0.71
036039P119AL286IL96279	0.23	0.09
036039P120AL287IL96280	0.23	0.61
036039P121AL398IL96391	0.23	0.06
036039P122AL399IL96392	0.23	0.02
036039P123AL315IL96308	0.23	0.82
036039P124AL316IL96309	0.23	0.70
036039P126AL405IL96398	0.23	0.00
036039P127AL406IL96399	0.23	0.25
036039P129AL335IL96328	0.23	3.55
036039P12AL353IL96346	0.23	0.00
036039P130AL400IL96393	0.23	0.00
036039P131AL401IL96394	0.23	0.00
036039P132AL343IL96336	0.23	4.01
036039P133AL426IL96419	0.23	1.33
036039P134AL427IL96424	0.23	0.16
036039P135AL428IL96425	0.23	0.44
036039P137AL407IL96400	0.23	0.00
036039P138AL408IL96401	0.23	0.16

036039P139AL429IL96422	0.23	0.00
036039P140AL430IL96423	0.23	3.77
036039P141AL380IL96373	0.23	0.00
036039P144AL329IL96322	0.23	2.75
036039P146AL409IL96402	0.23	0.14
036039P147AL410IL96403	0.23	2.46
036039P148AL301IL96294	0.23	0.19
036039P14AL310IL96303	0.23	4.01
036039P150AL290IL96283	0.23	0.33
036039P151AL291IL96284	0.23	1.57
036039P153AL354IL96347	0.23	4.55
036039P154AL355IL96348	0.23	8.41
036039P157AL331IL96324	0.23	9.37
036039P158AL304IL96297	0.23	1.34
036039P159AL305IL96298	0.23	1.42
036039P161AL317IL96310	0.23	3.32
036039P162AL318IL96311	0.23	4.85
036039P163AL319IL96312	0.23	5.95
036039P164AL320IL96313	0.23	3.99
036039P166AL322IL96246	0.23	4.66
036039P167AL374IL96367	0.23	0.00
036039P168AL375IL96368	0.23	0.00
036039P169AL376IL96369	0.23	0.00
036039P16AL274IL96267	0.23	3.94
036039P170AL377IL96370	0.23	0.00
036039P171AL279IL96272	0.23	2.10
036039P174AL302IL96295	0.23	1.80
036039P175AL303IL96296	0.23	0.70
036039P176AL418IL96411	0.23	0.00
036039P178AL306IL96299	0.23	2.67
036039P179AL307IL96300	0.23	0.00
036039P180AL308IL96428	0.23	1.72
036039P182AL365IL96358	0.23	0.03
036039P183AL366IL96359	0.23	0.00
036039P184AL367IL96360	0.23	0.00
036039P185AL368	0.23	0.00
036039P186AL344IL96337	0.23	4.31
036039P187AL345IL96338	0.23	2.44
036039P188AL346IL96427	0.23	4.51
036039P189AL393IL96386	0.23	3.80
036039P18AL292IL96285	0.23	2.01
036039P190AL394IL96387	0.23	4.05
036039P191AL352IL96345	0.23	0.00
036039P194AL36996362	0.23	1.17
036039P196AL288IL96281	0.23	3.66

036039P197AL289IL96282	0.23	0.00
036039P19AL256IL96249	0.23	0.00
036039P1AL254IL96247	0.23	0.03
036039P200AL293IL96286	0.23	1.11
036039P201AL294IL96287	0.23	1.35
036039P202AL360IL96353	0.23	1.38
036039P203AL361IL96354	0.23	5.42
036039P204AL362IL96355	0.23	0.00
036039P205AL261IL96254	0.23	0.11
036039P206AL262IL96255	0.23	0.18
036039P208AL350IL96343	0.23	0.19
036039P20AL257IL96250	0.23	0.38
036039P210AL311IL96304	0.23	0.10
036039P211AL312IL96305	0.23	0.00
036039P212AL389IL96382	0.23	0.00
036039P213AL390IL96383	0.23	0.00
036039P34AL340IL96333	0.23	0.00
036039P35AL281IL96274	0.23	0.00
036039P36AL282IL96275	0.23	3.95
036039P37AL283IL96276	0.23	3.49
036039P38AL324IL96317	0.23	2.36
036039P3AL255IL96248	0.23	1.62
036039P40AL385IL96378	0.23	1.44
036039P41AL386IL96379	0.23	0.25
036039P43AL372IL96365	0.23	1.35
036039P44AL422IL96415	0.23	3.91
036039P45AL423IL96416	0.23	6.45
036039P47AL323IL96316	0.23	0.00
036039P48AL347IL96340	0.23	0.00
036039P49AL336IL96329	0.23	0.93
036039P4AL411IL96404	0.23	2.15
036039P50AL381IL96374	0.23	5.29
036039P51AL382IL96375	0.23	8.37
036039P52AL363IL96356	0.23	0.00
036039P53AL364IL96357	0.23	0.00
036039P54AL327IL96320	0.23	0.00
036039P55AL328IL96321	0.23	0.00
036039P56AL412IL96405	0.23	4.61
036039P57AL413IL96406	0.23	3.63
036039P58AL387IL96380	0.23	1.91
036039P59AL388IL96381	0.23	0.00
036039P5AL378IL96371	0.23	0.00
036039P60AL421IL96414	0.23	3.16

036039P63AL392IL96385	0.23	7.17
036039P64AL414IL96407	0.23	0.00
036039P65AL415IL96408	0.23	0.49
036039P66AL404IL96397	0.23	4.04
036039P67AL416IL96409	0.23	1.00
036039P68AL417IL96410	0.23	1.71
036039P6AL379IL96372	0.23	0.00
036039P70AL337IL96330	0.23	1.42
036039P71AL338IL96331	0.23	1.35
036039P73AL424IL96417	0.23	5.14
036039P74AL341IL96334	0.23	2.95
036039P75AL342IL96335	0.23	9.73
036039P76AL356IL96349	0.23	1.09
036039P77AL357IL96350	0.23	0.00
036039P78AL258IL96251	0.23	0.74
036039P7AL299IL96292	0.23	0.66
036039P80AL295IL96288	0.23	2.24
036039P82AL326IL96319	0.23	2.25
036039P83AL272IL96265	0.23	1.52
036039P84AL273IL96266	0.23	4.76
036039P86AL276IL96269	0.23	1.47
036039P87AL277IL96270	0.23	0.00
036039P89AL259IL96252	0.23	0.48
036039P8AL300IL96293	0.23	0.50
036039P90AL297IL96290	0.23	0.74
036039P91AL298IL96291	0.23	0.68
036039P92AL284IL96277	0.23	0.30
036039P93AL285IL96278	0.23	0.00
036039P94AL373IL96366	0.23	0.00
036039P95AL296IL96289	0.23	2.29
036039P97AL313IL96306	0.23	0.00
036039P98AL314IL96307	0.23	0.00

8. ELABORATI CARTOGRAFICI

Vengono qui descritti gli elaborati cartografici realizzati secondo quanto indicato dalla deliberazione di Giunta della Regione Emilia-Romagna n. 2047 del 03/12/2018 (DGR 2047/2018) e dal documento tecnico rilasciato dalla Commissione Tecnica DPC "Microzonazione Sismica. Standard di rappresentazione e archiviazione informatica. Versione 4.1" (CT, 2018).
In accordo con gli indirizzi regionali (DGR 630/2019), le cartografie delle microzone omogenee in prospettiva sismica (MOPS) e di microzonazione sismica di livello III sono state elaborate per gli ambiti di interesse urbanistico (aree urbanizzate e urbanizzabili, principali reti infrastrutturali e parti contermini di territorio rurale), come definiti dall'Amministrazione Comunale e del l'Amministrazione Provinciale. Negli ambiti di studio, la quantità di dati a disposizione ha permesso un'interpretazione attendibile per quanto riguarda la definizione dei fattori amplificativi dell'azione sismica sull'intero territorio comunale.

8.1 Carta delle indagini

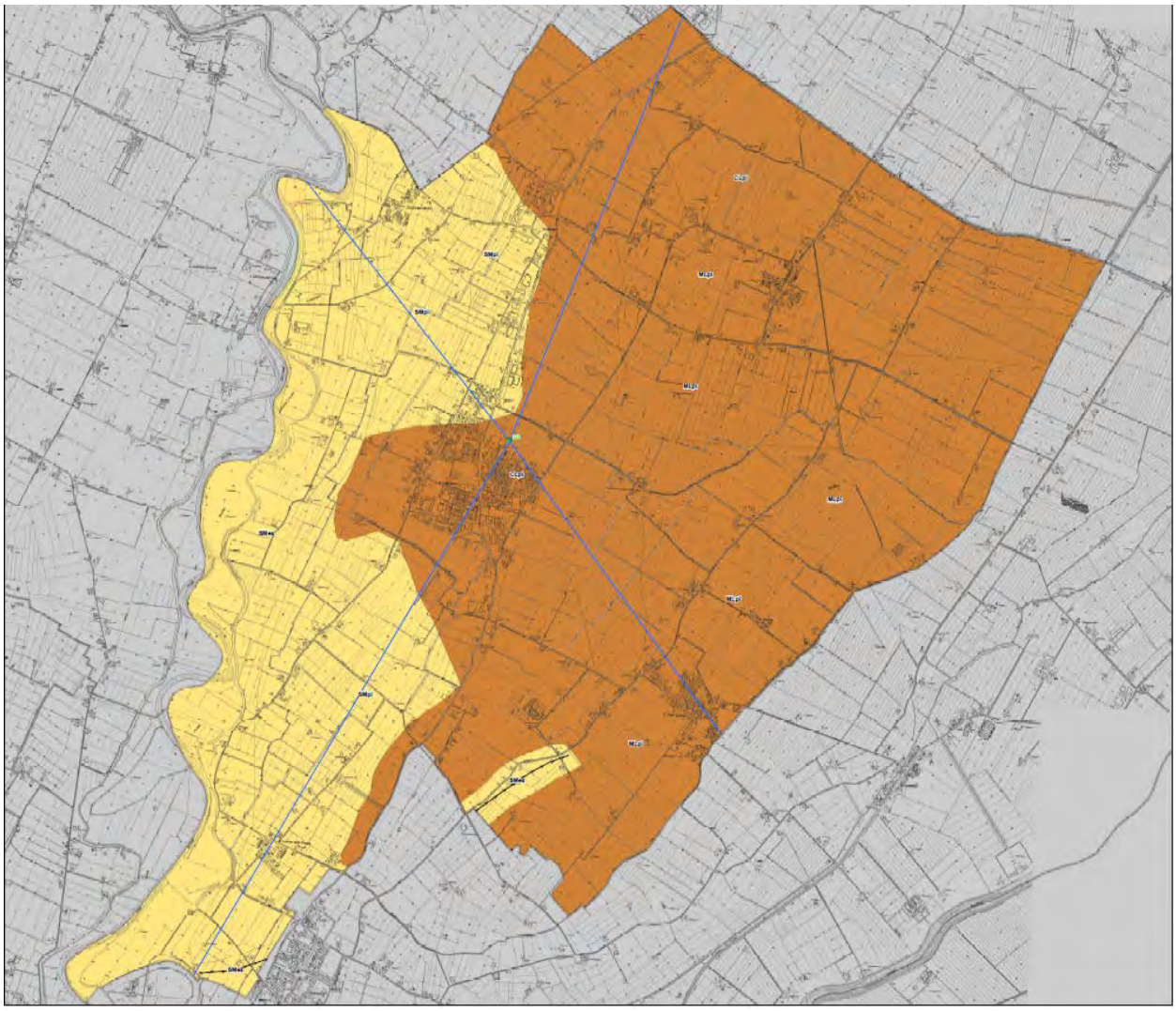
Sulla base delle indagini pregresse e quelle di nuova realizzazione sono state selezionate complessivamente:

- 1 sondaggio stratigrafico meccanico a distruzione di nucleo per realizzazione pozzo industriale;
- 165 prove penetrometriche statiche meccaniche (CPTm);
- 13 prove penetrometriche statiche con piezocono (CPTu);
- 1 prova dilatometrica con dilatometro piatto Marchetti (DTM);
- 85 prospezioni simiche attive con metodo MASW in onde Rayleigh (array sismico 1D con geofoni verticali con analisi della componente verticale dell'onda di Rayleigh);
- 3 prospezioni simiche passive con metodo ReMI in onde Rayleigh (array sismico 1D con geofoni verticali con analisi della componente verticale dell'onda di Rayleigh);
- 53 misure di sismica passiva con tecnica a stazione singola con acquisizione di microtremori ambientali con metodo Horizzontal to Vertical Spectral Ratio (HVSR);
- 1 prospezione sismica a rifrazione in onde Sh.

Tali indagini, in accordo con gli standard previsti, sono state digitalizzate e inserite nella banca dati. L'elaborato sull'intero territorio comunale è stato redatto in scala 1:10000.

8.2 Carta geologico tecnica per la microzonazione sismica

La "Carta geologico tecnica per la microzonazione sismica" riporta tutte le informazioni di base (geologia, geomorfologia, caratteristiche litotecniche, geotecniche ed idrogeologiche) derivate da informazioni esistenti desunte dalla banca dati della Regione Emilia-Romagna ed in possesso del Servizio Geologico Regionale, da ulteriori studi effettuati a livello del territorio comunale in fase di formazione dei vari piani urbanistici comunali e dal presente studio.
Questi dati sono stati necessari alla definizione del modello di sottosuolo per l'intero territorio comunale e propedeutici per la definizione in chiave sismica degli effetti attesi al suolo.
Ai fini della realizzazione della carta (sotto riportata) si è provveduto all'analisi di tutte le prove geognostiche in possesso nel presente studio.



Da tale analisi si è potuto riscontrare che la maggiore variabilità si riscontra nei primi 20 m dal piano campagna. Tale indicazione risulta propedeutica per la valutazione del potenziale di liquefazione che può interessare i terreni presenti sull'intero territorio comunale. Nello specifico si è provveduto ad analizzare le seguenti indagini geognostiche:

- 1 sondaggio stratigrafico meccanico a distruzione di nucleo per realizzazione pozzo industriale;
- 165 prove penetrometriche statiche meccaniche (CPTm);
- 13 prove penetrometriche statiche con piezocono (CPTu);
- 1 prova dilatometrica con dilatometro piatto Marchetti (DTM);

Dove le classi individuate rappresentano le litologie prevalenti nei primi 20 m da p.c., con indicazione degli ambienti genetico deposizionali:

CLpi	Argille inorganiche di medio-bassa plasticità, argille ghiaiose o sabbiose, argille limose, argille magre di piana inondabile
MLpi	Limi inorganici, farina di roccia, sabbie fini limose o argillose, limi argillosi di bassa plasticità di piana inondabile
SMes SMpi	Sabbie limose, miscela di sabbie e limo di piana inondabile o argine\barre\canali

L'elaborato è stato redatto sull'intero territorio comunale in scala 1:10000.

8.3 Carta delle frequenze naturali dei terreni

La carta delle frequenze naturali dei terreni è stata ottenuta mediante indagini di rumori ambientale (microtremori) a stazione singola con tecnica HVSR.
I dati ottenuti dalle elaborazioni di tali indagini, attraverso l'analisi dei rapporti spettrali tra le componenti orizzontali e la componente verticale dello strumento, consentono infatti di definire le modalità di vibrazione del terreno ed individuare sia la frequenza di risonanza fondamentale (valore f_0) che l'ampiezza (A) dei rapporti spettrali in corrispondenza delle frequenze individuate.
Bisogna infatti considerare che sussiste una correlazione diretta (anche se non lineare) tra i fenomeni di "risonanza" e l'amplificazione del moto del suolo in concomitanza di sollecitazione sismica (effetti di sito).
Tutto il territorio indagato è stato suddiviso in base a classi di frequenza (nell'intervallo 0,1-20,0 Hz):

- $f_0 \leq 1$ Hz (spessori attesi ≥ 100 m),
- 1 Hz $< f_0 \leq 2$ Hz (spessori attesi fra 100 e 30 m),
- 2 Hz $< f_0 \leq 8$ Hz (spessori attesi fra 30 e 10 m),

- f_0 > 8 Hz (spessori attesi < 10 m)

Inoltre sono state caratterizzate le zone da alti contrasti di impedenza alla base delle coperture (ampiezza HVSR > 3) e bassi contrasti di impedenza (ampiezza HVSR < 3).
Le frequenze misurate risultano tutte comprese tra 0,55 e 1,1 Hz.
In generale, si evidenzia il trend per il quale i valori di frequenza sono più elevati nella porzione settentrionale del territorio comunale mentre tali valori tendono a diminuire nella parte meridionale del territorio comunale. Per quanto riguarda i picchi delle prove H/V non si riscontra alcun trend in merito.
Ad ogni modo la variabilità delle frequenze sopra descritta ben si accorda con l'assetto strutturale geologica di questa porzione di bassa pianura modenese.
L'elaborato è stato redatto sull'intero territorio comunale in scala 1:10000.

8.4 Carta delle microzone omogenee in prospettiva sismica (livello 1)

La Carta delle microzone omogenee in prospettiva sismica (MOPS - livello 1) è costruita sulla base degli elementi individuati e già riportati nella Carta geologico tecnica per la microzonazione sismica. L'elaborato è stato redatto sull'intero territorio comunale in scala 1:10000.
In funzione delle informazioni rappresentate, la legenda è distinta nelle seguenti parti:

- zone stabili suscettibili di amplificazioni locali;
- zone suscettibili di instabilità;
- forme di superficie e sepolte;
- tracce di sezione topografica.

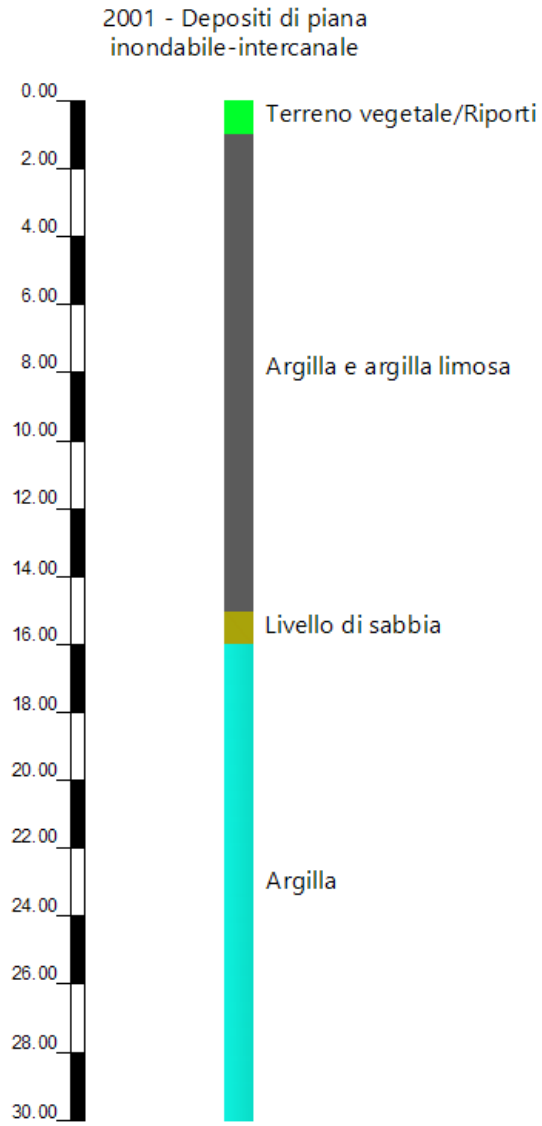
In riferimento agli Indirizzi e Criteri per la Microzonazione Sismica del Dip. Prot. Civ. e Conf. Delle Regioni e Province Autonome e gli Standard MS (v. 4.1), sono state individuate e delimitate le zone a comportamento equivalente in occasione di sollecitazione sismica, nelle quali sono da effettuarsi approfondimenti di indagini ed analisi per la microzonazione sismica ed i livelli di approfondimento che competono alle condizioni di pericolosità di detti ambiti.
L'individuazione delle sequenze litotecniche - sismiche delle aree a comportamento equivalente in occasione di sollecitazione sismica, è stata definita in funzione delle prospezioni geotecniche e geofisiche a disposizione del presente studio.
In riferimento a quanto esposto sono state quindi individuate le sequenze delle zone stabili nelle quali gli effetti sono correlati ad amplificazione per caratteristiche litostratigrafiche: zone 2001, 2002 e 2003 e le zone di attenzione per instabilità legate a possibili fenomeni di liquefazione: zone 30502004, 30502005, 30502006 e 30502007.
Di seguito si riporta una descrizione delle microzone omogenee in prospettiva sismica con gli schemi dei rapporti litostratigrafici più significativi:
Il sistema di codifica delle MOPS identifica con il codice 20xy le aree stabili suscettibili di amplificazione e con il codice 30xy20xy le aree potenzialmente instabili.

Zone stabili suscettibili di amplificazioni locali

- Zona 2001

2001

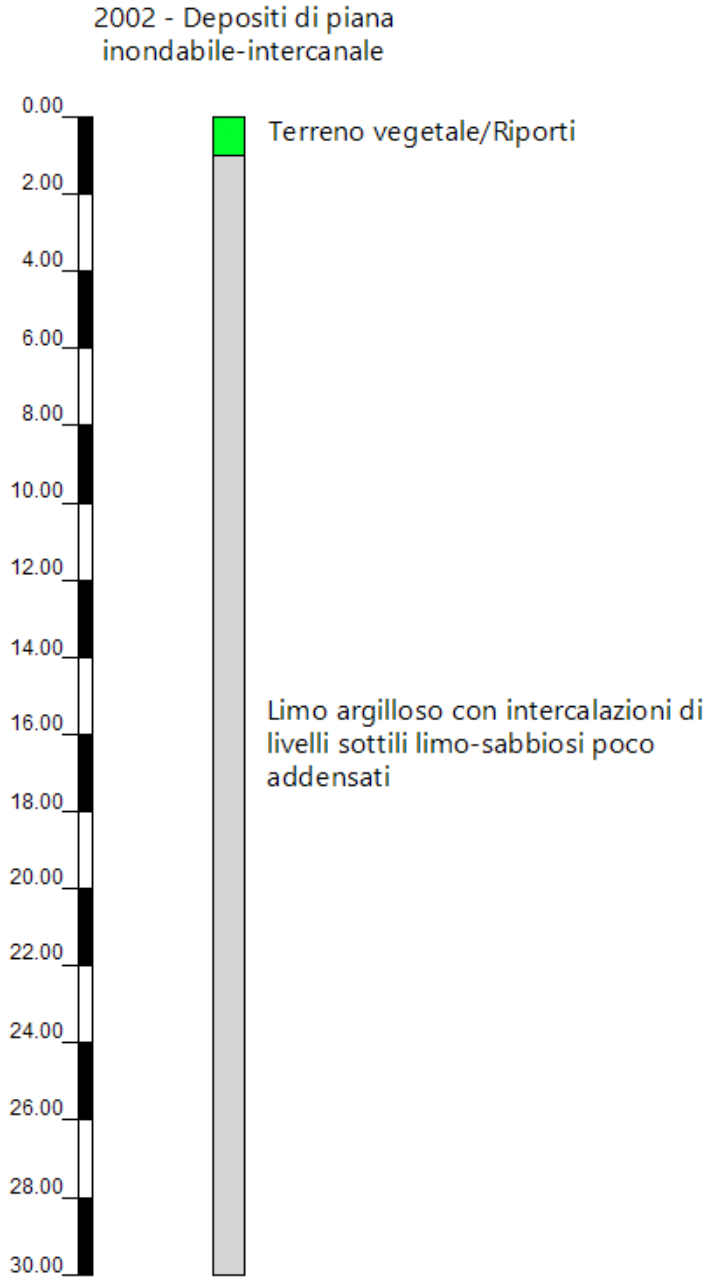
Depositi di piana inondabile-intercanale caratterizzati dalla presenza di sedimenti fini costituiti prevalentemente da argille e subordinatamente argille limose a media consistenza con possibili intercalazioni di livelli centimetrici a bassa consistenza e con assenza di orizzonti granulari potenzialmente liquefacibili nei primi 20m dal pc.



- Zona 2002

2002

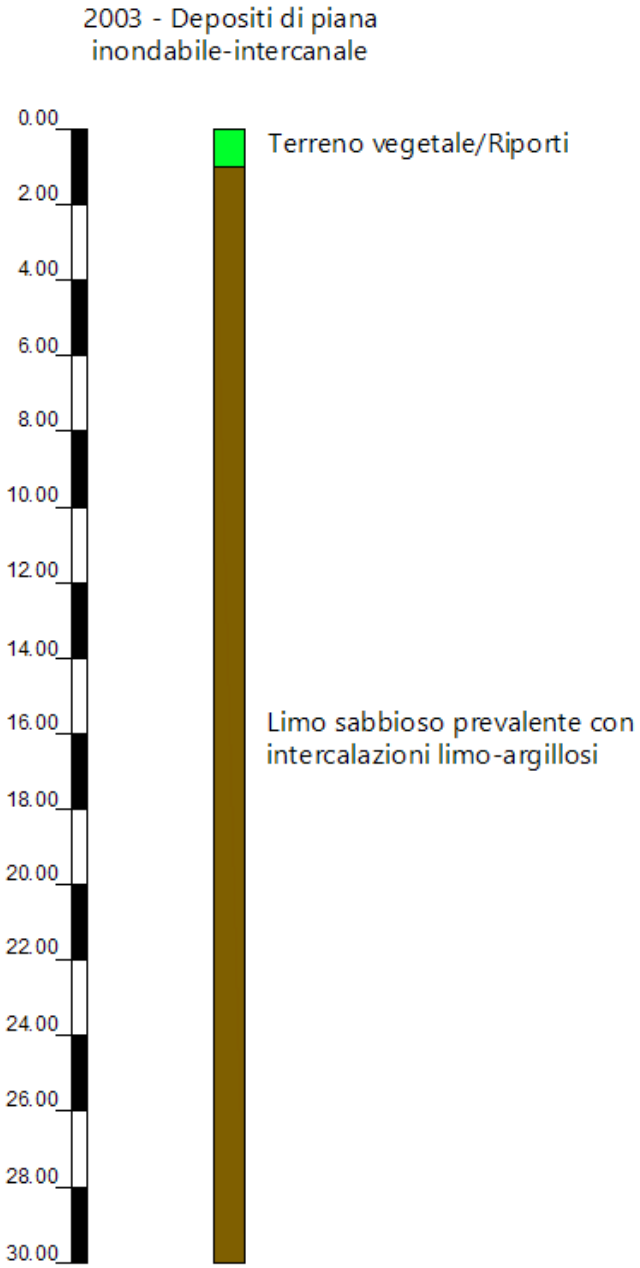
Depositi di piana inondabile-intercanale caratterizzati dalla presenza di sedimenti fini costituiti prevalentemente da limi e limi argillosi mediamente consistenti con intercalati subordinati livelli sottili limo sabbiosi poco addensati.
Assenza di orizzonti granulari potenzialmente liquefacibili nei primi 20m dal pc.



- Zona 2003

2003

Depositi di piana inondabile-intercanale caratterizzati dalla presenza di sedimenti fini costituiti prevalentemente da limi-sabbiosi prevalenti e limi-argillosi mediamente consistenti con intercalazioni di livelli centimetrici a bassa consistenza.
Assenza di orizzonti granulari potenzialmente liquefacibili nei primi 20m dal pc.



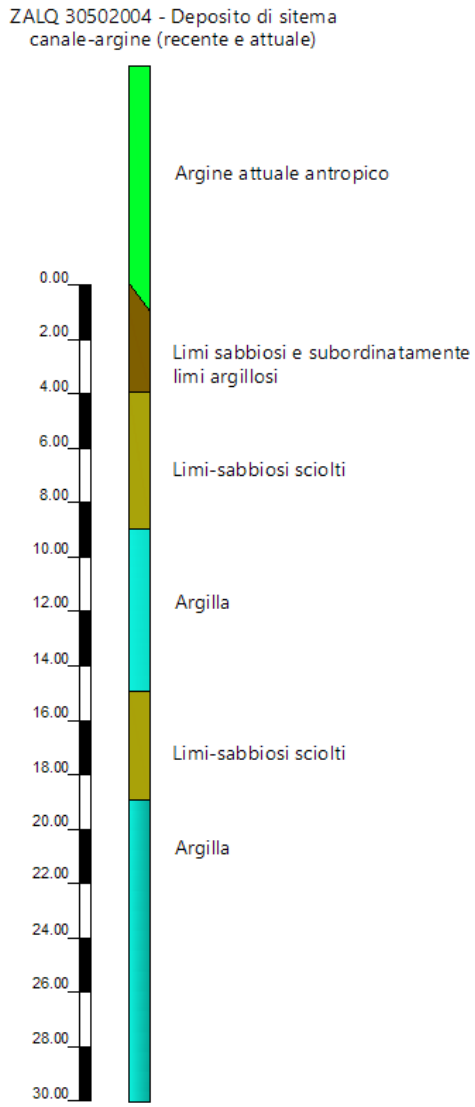
Zone di attenzione per instabilità

Tra le zone di attenzione per instabilità, nel territorio comunale sono state individuate quelle legate a possibili fenomeni di liquefazione (ZA_{LQ}) caratterizzate dalla codifica 305020xy ed in particolare:

- Zona ZA_{LQ} 30502004

ZA_{LQ} 30502004

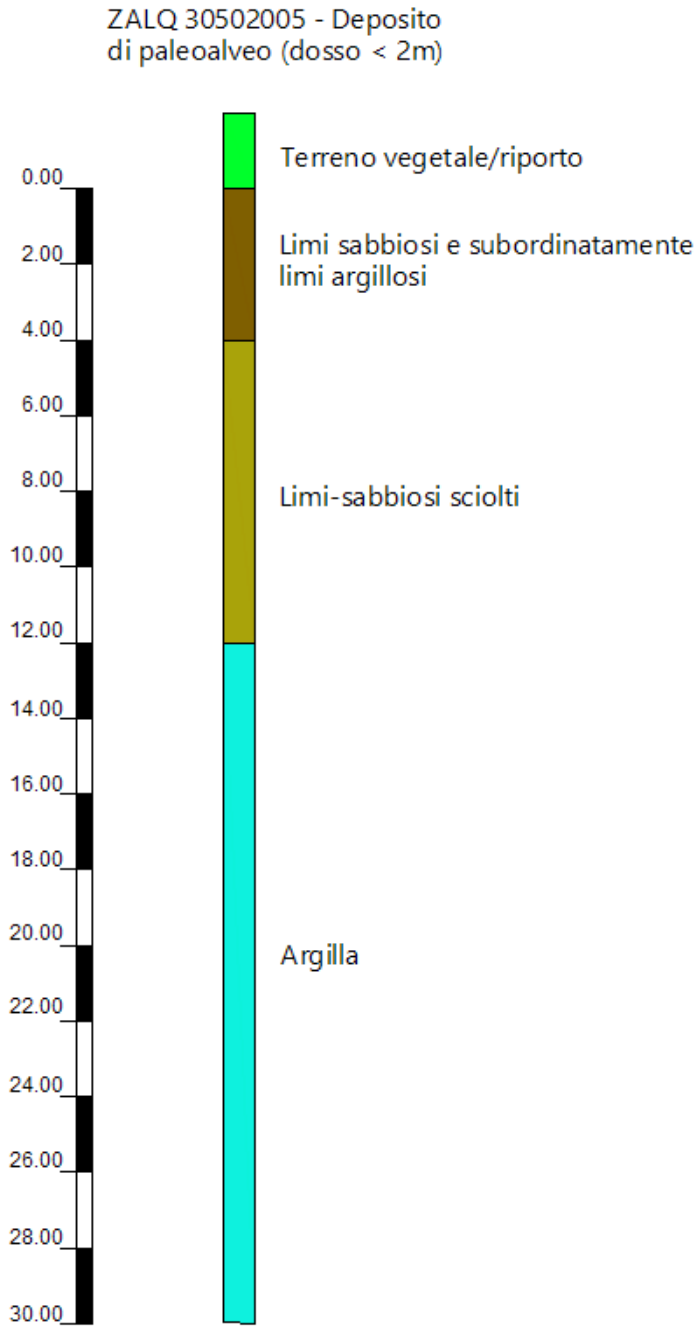
Depositi di sistema canale-argine (recente e attuale) caratterizzati dalla presenza di sedimenti costituiti da limi e limi-argillosi mediamente consistenti con livelli limo-sabbiosi sciolti potenzialmente liquefacibili compresi tra 3-8 m e tra i 14-18 m dal p.c.



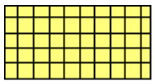
- Zona ZA_{LQ} 30502005

ZA_{LQ}30502005

Depositi di paleoalveo caratterizzati dalla presenza di sedimenti costituiti da limi-sabbiosi e subordinatamente limi-argillosi con livelli limo-sabbiosi sciolti potenzialmente liquefacibili compresi tra 4-12 m dal p.c.

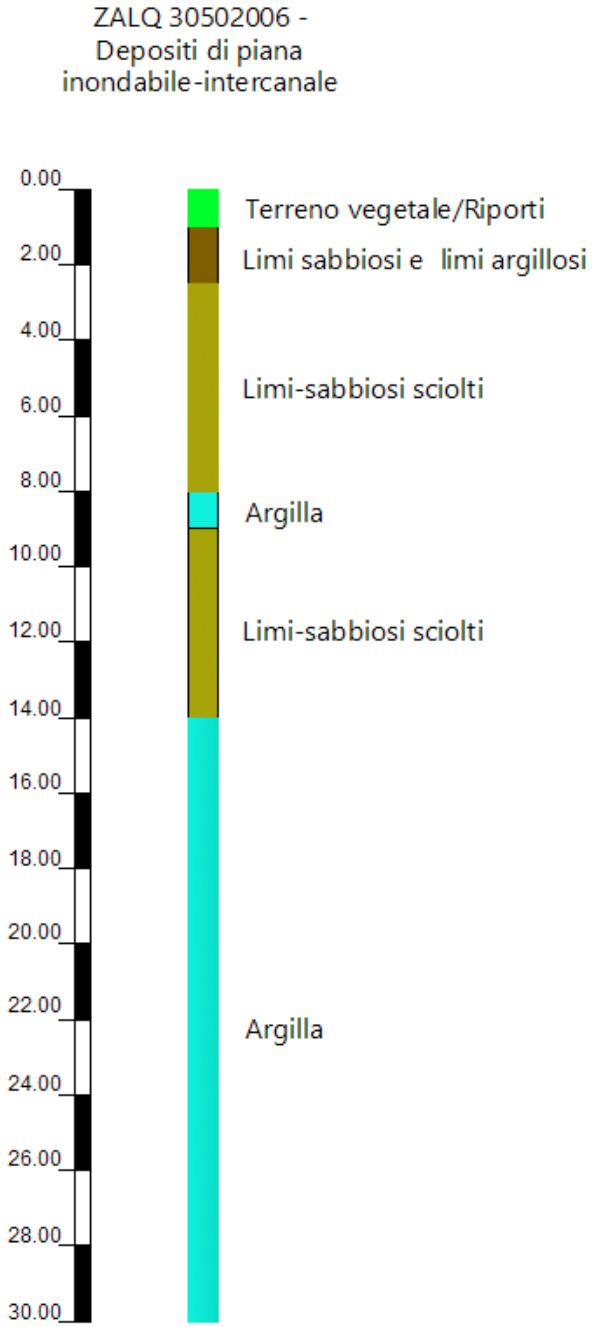


- Zona ZA_{LQ} 30502006

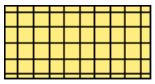


ZA_{LQ} 30502006

Depositi di piana inondabile-intercanale caratterizzati dalla presenza di sedimenti fini costituiti da limi-sabbiosi e limi-argillosi mediamente consistenti con livelli limo-sabbiosi sciolti potenzialmente liquefacibili compresi tra 2.5-8 m e tra i 9-14 m dal p.c.

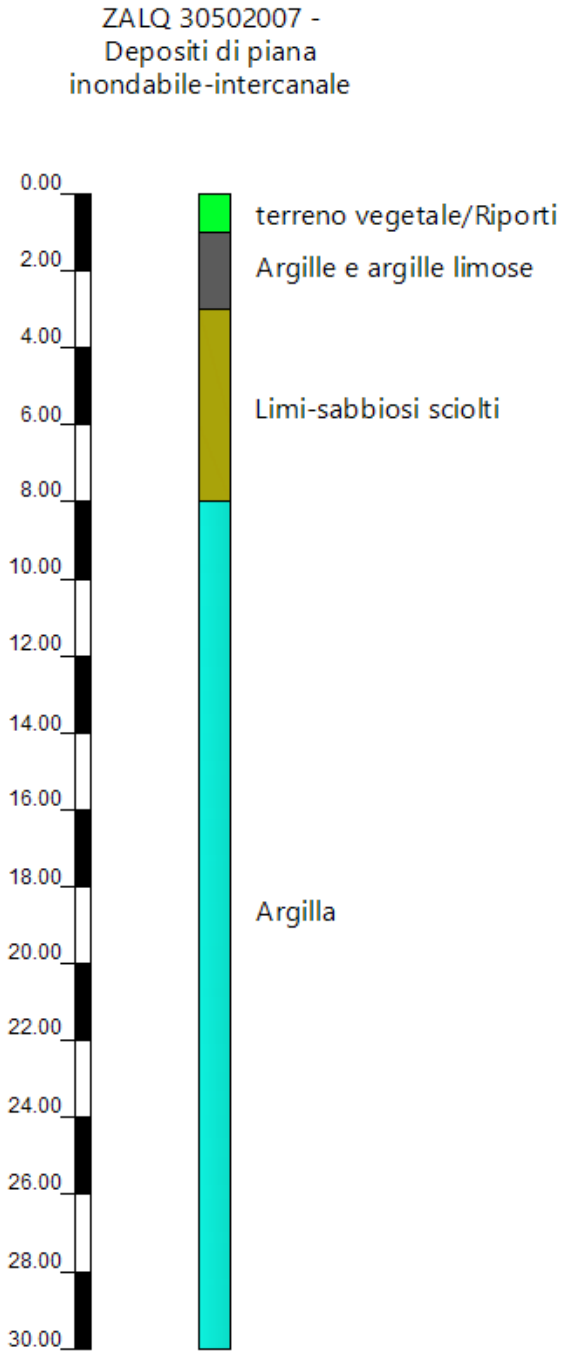


- Zona ZA_{LQ} 30502007



ZA_{LQ} 30502007

Depositi di piana inondabile-intercanale caratterizzati dalla presenza di sedimenti fini costituiti prevalentemente da Argille e argille limose mediamente consistenti con livelli limo-sabbiosi sciolti potenzialmente liquefacibili compresi tra 3-8 m dal p.c.



8.5 Carta delle velocità delle onde di taglio S (Vs)

La carta delle velocità delle onde di taglio (Vs), rappresenta la sintesi delle velocità delle onde di taglio con indicazione per ogni punto di misura di:

- del tipo di prova geofisica che è stata effettuata;
- della profondità del substrato H (in m) e di Vs_H (in m/s) *nelle aree in cui H < 50 m*;
- di Vs30 (in m/s) *nelle aree in cui H > 50 m.*

I valori di Vs sono stati calcolati in base a dati acquisiti con indagini sismiche di superficie sia di tipo attivo che passivo opportunamente combinate tra di loro per meglio definire il profilo, con la profondità, di velocità delle onde S:

- 85 prospezioni simiche attive con metodo MASW in onde Rayleigh (array sismico 1D con geofoni verticali con analisi della componente verticale dell'onda di Rayleigh);
- 3 prospezioni simiche passive con metodo ReMI in onde Rayleigh (array sismico 1D con geofoni verticali con analisi della componente verticale dell'onda di Rayleigh);
- 53 misure di sismica passiva con tecnica a stazione singola con acquisizione di microtremori ambientali con metodo Horizzontal to Vertical Spectral Ratio (HVSR);
- 1 prospezione sismica a rifrazione in onde Sh.

In riferimento ai valori di velocità Vs calcolati con la seconda delle metodologie sopra indicate e sull'interpretazione critica delle prove geognostiche disponibili, è stato possibile estendere l'informazione sulla profondità H del substrato rigido avvalendosi della relazione che collega la frequenza di risonanza con la profondità del substrato rigido e la velocità media delle onde S.
In generale i valori di Vs30 variano tra 160 e 233 m/s.
L'elaborato è stato redatto in scala 1:10000

8.6 Carta di microzonazione sismica (livello 3)

Gli sviluppi delle aree oggetto di microzonazione sismica di secondo livello di approfondimento individuano aree a comportamento sismico equivalente, attribuendo alle stesse indici quantitativi che definiscono in base alle condizioni stratigrafiche e topografiche l'amplificazione sismica attesa (Tr = 475 anni; ζ = 5%).
La carta di microzonazione sismica assegna ad ognuna delle microzone individuate valori dei Fattori di Amplificazione (F.A.) calcolati mediante analisi di risposta sismica locale Le analisi sono state eseguite tenendo conto delle diversità litotecniche delle microzone individuate.

Questi parametri sono espressi sia in termini di rapporto di accelerazione massima orizzontale (PGA/PGA_0), sia di rapporto di Accelerazioni (SA/SA_0) sia di rapporto di Intensità di Housner (SI/SI_0) per prefissati intervalli di periodi, dove PGA_0, SA_0 e SI_0 sono rispettivamente l'accelerazione massima orizzontale, l'accelerazione e l'Intensità di Housner al suolo di riferimento e PGA, SA e SI sono le corrispondenti grandezze di accelerazione massima orizzontale, accelerazione e Intensità di Housner calcolate alla superficie dei siti esaminati.
Nello specifico pertanto la carta di microzonazione sismica si compone, per ogni microzona individuata di otto fattori amplificativi differenti sotto descritti:

FPGA = Fattore di amplificazione dell'accelerazione di picco PGA;

SA1 = Fattore di amplificazione dell'accelerazione nell'intervallo di periodo T compreso tra 0,1-0,5 s (FA IS 0,1-0,5 s);
SA2 = Fattore di amplificazione dell'accelerazione nell'intervallo di periodo T compreso tra 0,4-0,8 s (FA IS 0,4-0,8 s);
SA3 = Fattore di amplificazione dell'accelerazione nell'intervallo di periodo T compreso tra 0,7-1,1 s (FA IS 0,7-1,1 s);
SA4 = Fattore di amplificazione dell'accelerazione nell'intervallo di periodo T compreso tra 0,5-1,5 s (FA IS 0,5-1,5 s);

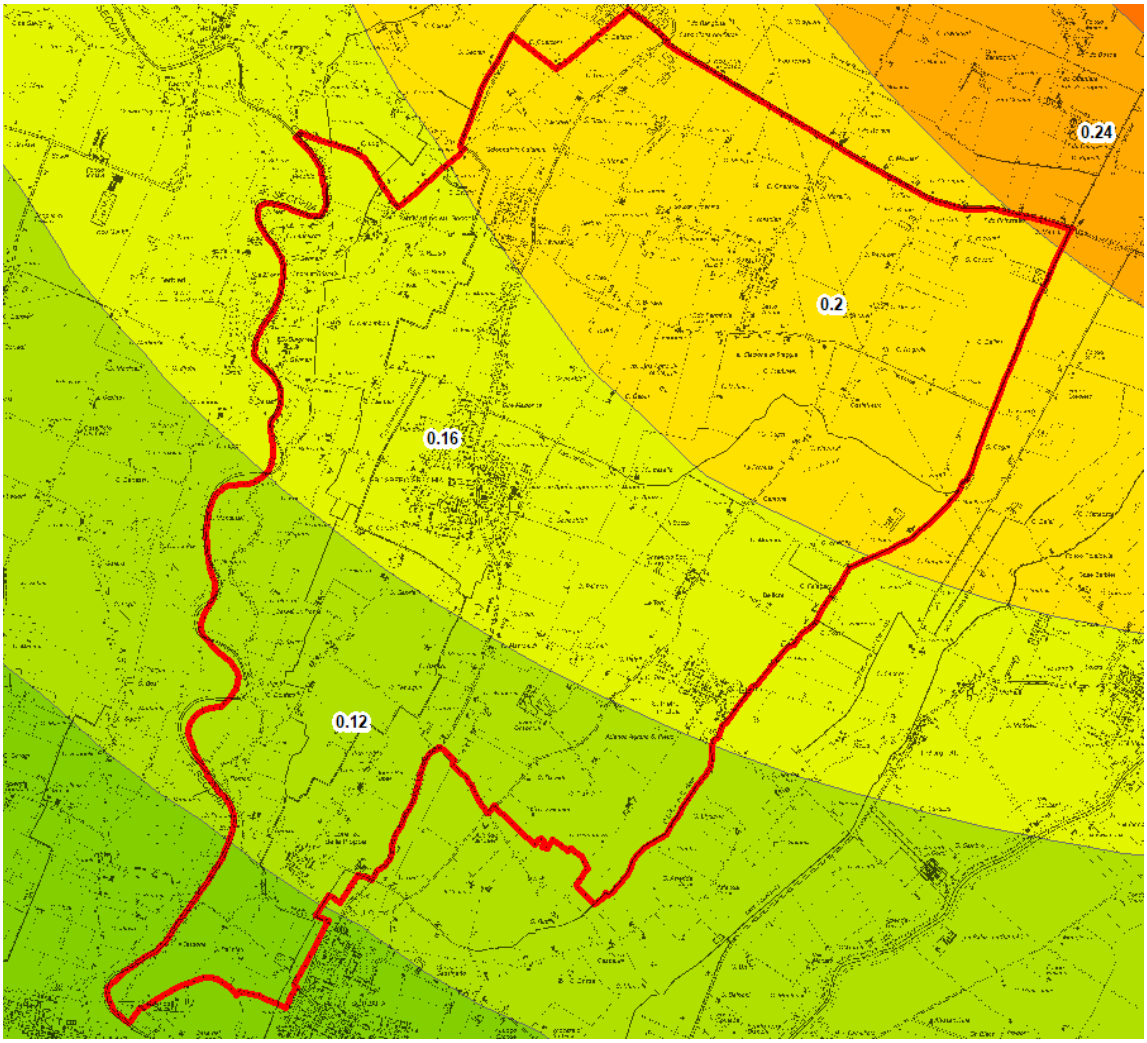
SI1 = Fattore di amplificazione dell'intensità di Housner nell'intervallo di periodo T compreso tra 0,1-0,5 s (FA IS 0,1-0,5 s);
SI2 = Fattore di amplificazione dell'intensità di Housner nell'intervallo di periodo T compreso tra 0,5-1,0 s (FA IS 0,5-1,0 s);
SI3 = Fattore di amplificazione dell'intensità di Housner nell'intervallo di periodo T compreso tra 0,5-1,5 s (FA IS 0,5-1,5 s);

Ai fattori sopra citati si sono prodotte anche quattro carte della distribuzione sul territorio dei valori di H, parametro che esprime lo scuotimento atteso al sito in valore assoluto (accelerazione in cm/s2), dato dal prodotto del parametro *Acceleration Spectrum Intensity* (ASI_{UHS}), valore integrale dello spettro di riferimento in accelerazione calcolato per l'intervallo di periodi tra 0,1-0,5 s, 0,4-0,8 s, tra 0,7-1,1 s e tra 0,5-1,5 s divisi rispettivamente per ΔT e moltiplicato per il fattore di amplificazione in accelerazione (FA) calcolato per lo stesso intervallo di periodi:
Sono anche queste le carte di microzonazione sismica utilizzate per rappresentare la pericolosità sismica locale nell'analisi della condizione limite per l 'emergenza (CLE).
Il vantaggio nell'utilizzo di questo nuovo parametro consiste nel fatto che esprime lo scuotimento atteso con valori assoluti, in termini di accelerazione (cm/s2), e quindi permette una vera e propria classificazione della pericolosità sismica locale, per TR=475 anni.

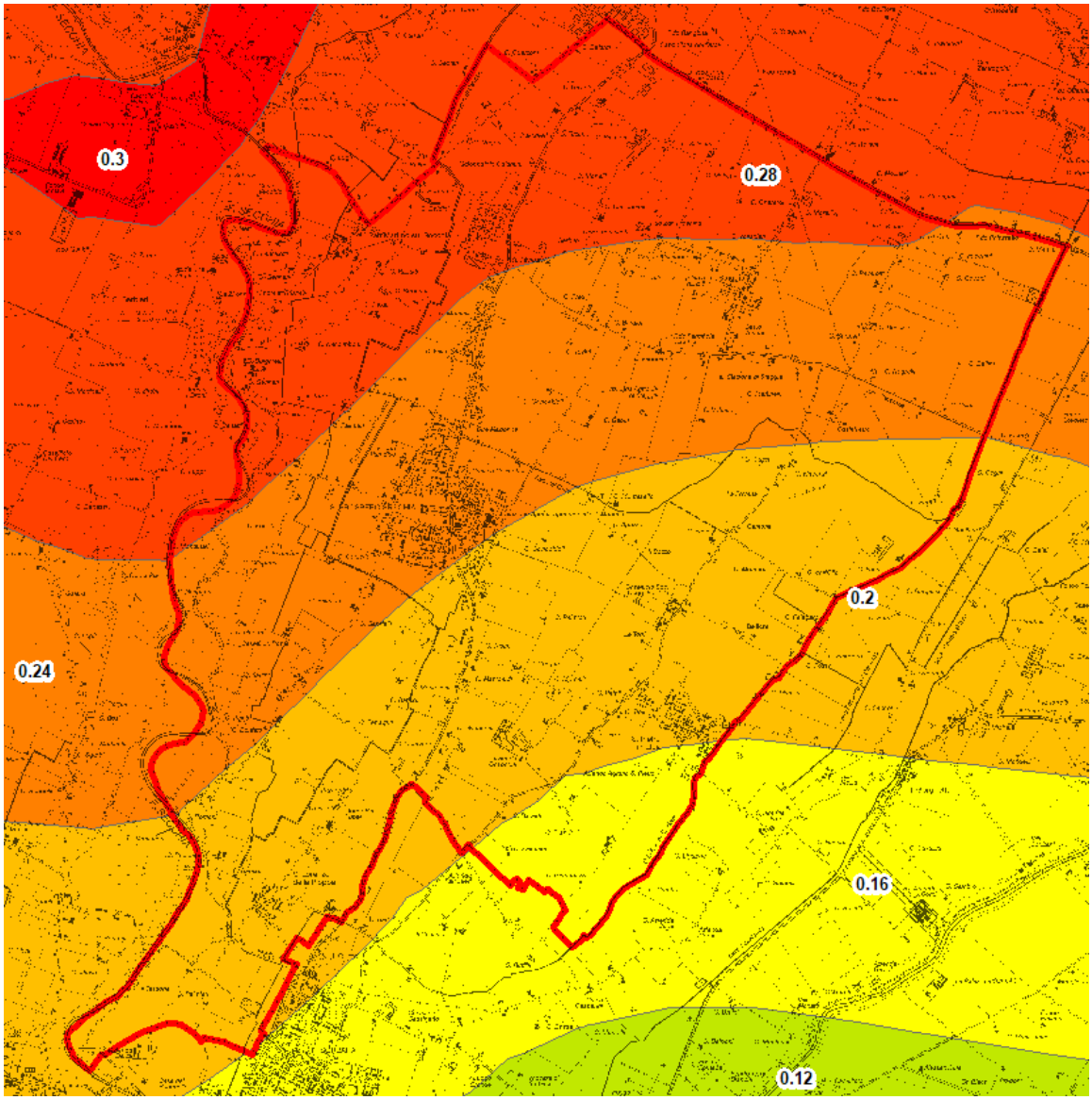
I coefficienti ottenuti dalle modellazioni numeriche eseguite evidenziano come nelle zone di instabilità si riscontrino coefficienti più elevati rispetto a quelle stabili con amplificazioni.
Le zone suscettibili di instabilità per liquefazione sono distinte da quelle soggette a sola amplificazione locale per mezzo di soprassegno cartografico.
Le "Zone di suscettibilità e di rispetto per liquefazione" sono state derivate dalle "Zone di attenzione per liquefazione" della carta MOPS utilizzando geometrie e indicazioni diverse rispetto a queste ultime, in accordo con gli standard di MS 4.1.
Le "Zone di suscettibilità e di rispetto per liquefazione" sono state inoltre definite e arealmente suddivise per classi di rischio, sulla base dell'indice del potenziale di liquefazione (IL). Le classi individuate sono riportate in carta mediante l'utilizzo dei retini previsti per le aree a rischio moderato ($2< IL \leq 5$), alto ($5< IL \leq 15$) e molto alto ($IL > 15$). Si ricorda che gli indirizzi di microzonazione nazionale non prevedono che le aree a basso rischio ($IL \leq 2$) vengano rappresentate in carta con il retino che contraddistingue le zone instabili per liquefazione, nonostante siano state verificate le condizioni predisponenti il fenomeno.
Rispetto a quanto previsto dagli Standard MS 4.1, nelle carte sono rappresentati anche i valori puntuali delle stime del potenziale di liquefazione eseguite sulle singole verticali d'indagine. I valori di IL ottenuti sono esplicitati mediante etichette numeriche associate a simboli con colorazioni distinte a seconda del grado di rischio. I simboli bianchi indicano rischio di liquefazione basso ($0< IL \leq 2$), quelli gialli moderato ($2< IL \leq 5$) i rossi alto ($5< IL \leq 15$) e quelli viola rischio molto alto (>15).

9. CONFRONTO CON LA DISTRIBUZIONE DEI DANNI DEGLI EVENTI PASSATI

I cataloghi storici sulla sismicità indicano che l'area di San Prospero s/S è stata più volte interessata da terremoti che hanno prodotto effetti di intensità uguali o maggiori di 6.
I dati storici disponibili mostrano che l'evento che ha causato i maggiori effetti e danneggiamenti in questo Comune risulta essere la scossa del 20-29/05/2012 (Mw=6,09 - 5,90), il cui epicentro è stato localizzato a soli 3 km dal centro abitato di Cavezzo.
La mappa di scuotimento (*shakemap*) realizzata da INGV con riferimento alla scossa del 20/05/2012 e del 29/05/2012 (http://shakemap.rm.ingv.it/shake/772691/pga.html e http://shakemap.rm.ingv.it/shake/841091/pga.html) indicano che, all'interno del territorio comunale di San Prospero, la PGA stimata ha raggiunto rispettivamente valori compresi tra 0,20-0,08g e 0,28-0,16

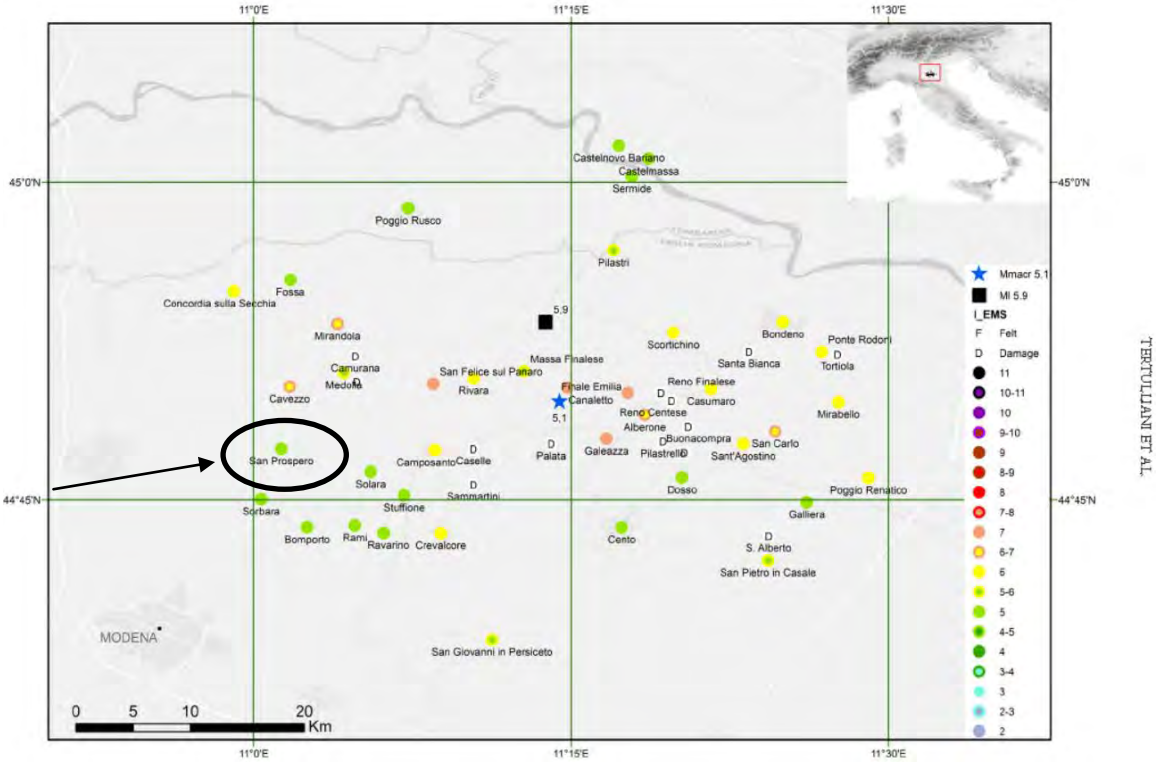


Evento del 20/05/2012

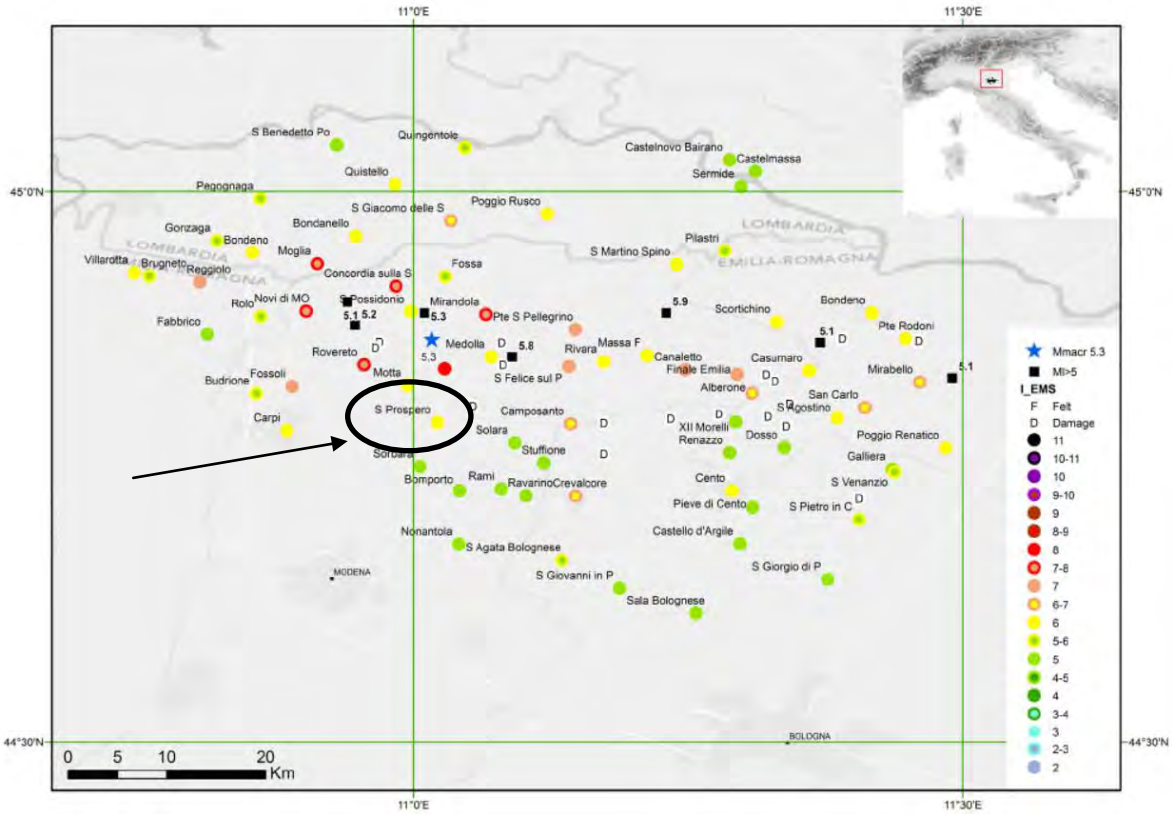


Evento del 29/05/2012

Il territorio comunale, secondo la mappa di pericolosità sismica nazionale (MPS04, OPCM 3519/2006), evidenzia che la PGA attesa a San Prospero s/S per TR=475 anni è pari a 0,155g; pertanto, il fattore di amplificazione sismica misurato, in termini di PGA, per la scossa del 29/05/2012 sarebbe pari a 1,8, valore che è perfettamente in linea con quanto desunto dagli abachi semplificati utilizzati nel presente studio che è pari a 1,7.
Inoltre dopo la sequenza sismica del maggio 2012 al centro abitato di San Prospero è stata attribuita un'intensità macrosismica pari al VI grado della Scala Macrosismica Europea - EMS98 (Tertulliani et Al., 2012).
Si riportano di seguito le mappe desunte dalle rilevazioni dell'INGV di cui sopra.



Intensità macrosimica dell'episodio del 20 maggio 2012



Intensità macrosimica della sequenza maggio-giugno 2012

Gli stessi dati sono confermati dal rilievo effettuato dal Dipartimento Nazionale di Protezione Civile (Galli P., Castenetto S. e Peronace E., 2012) che evidenzia un'intensità macrosismica pari al V-VI grado della Scala MCS (secondo la metodologia di Molin 2003 e 2009) di cui si riporta sotto la mappa desunta.

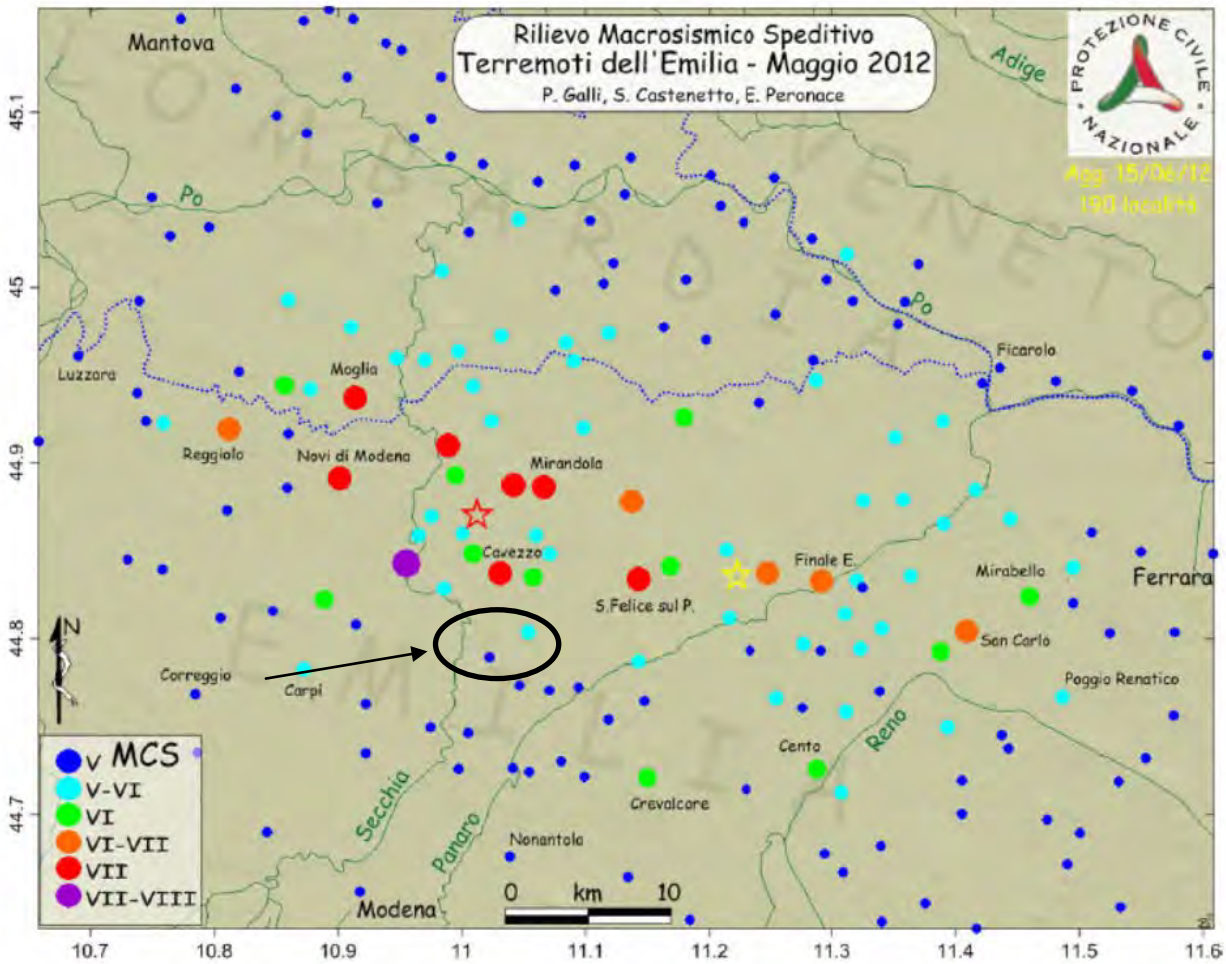


Fig. 18 – Distribuzione delle intensità macrosismiche cumulate per località.
Rilevamento DPC 20 Maggio-15 Giugno 2012. Stella gialla e rossa, epicentri macrosismici del terremoto del 20 Maggio e del cumulo degli effetti col terremoto del 29 Maggio, rispettivamente.

10. BIBLIOGRAFIA

- BOCCALETTI M. - MARTELLI L. - AA.VV. (2003) – Carta sismotettonica della Regione Emilia Romagna. S.E.L.C.A. Firenze;

- BOULANGER R. W., IDRISS I. M., (2014): *CPT and SPT based liquefaction triggering procedures*. Report No. UCD/CGM-14/01, Center for Geotechnical Modeling, Department of Civil and Environmental Engineering, University of California, Davis, CA, 134 pp.

- DGR 1227/2015. Deliberazione della Giunta Regionale n. 1227 del 31/08/2015, "Approvazione dei criteri per gli studi di microzonazione sismica ed assegnazione e concessione dei contributi di cui all'OCDPC 171/2014". Boll. Uff. Reg. Emilia- Romagna n.244 del 23/09/2015.

- DISS WORKING GROUP (2015): Database of Individual Seismogenic Sources (DISS), Version 3.2.0: A compilation of potential sources for earthquakes larger than M 5.5 in Italy and surrounding areas. http://diss.rm.ingv.it/diss/, INGV; DOI:10.6092/INGV.IT-DISS3.2.0.

- LOCATI M., CAMASSI R. e STUCCHI M. (a cura di), 2011 . BDMI11, la versione 2011 del Database Microsismico Italiano. Milano,

- GRUPPO DI LAVORO MS,2008. "Indirizzi e criteri per la microzonazione sismica". Conferenza delle Regioni e delle province Autonome - Dipartimento della protezione Civile, Roma, 3 vol. e Dvd.

- DGR 2193/2015. Deliberazione della Giunta della Regione Emilia-Romagna n.2193 del 21/12/2015: approvazione aggiornamento dell'atto di coordinamento tecnico denominato "indirizzi per gli studi di microzonazione sismica in emilia-romagna per la pianificazione territoriale e urbanistica", di cui alla deliberazione dell'assemblea legislativa 2 maggio 2007, n. 112.". Boll. Uff. Reg. Emilia- Romagna n.4 del 08/01/2016.

- DGR 630/2019. Deliberazione della Giunta della Regione Emilia-Romagna n.630 del 29/04/2019: approvazione aggiornamento dell'atto di coordinamento tecnico denominato "indirizzi per gli studi di microzonazione sismica in emilia-romagna per la pianificazione territoriale e urbanistica", di cui alla deliberazione dell'assemblea legislativa 2 maggio 2007, n. 112.". Boll. Uff. Reg. Emilia- Romagna n.143 del 06/05/2019.

- GALLI P., CASTENETTO S e PERONACE E. (2012): Rilievo macrosismico MCS speditivo Rapporto Finale - Rapporto interno Dipartimento della Protezione Civile 15 giugno 2012

- MARTELLI L., ROMANI M. (2013): Microzonazione sismica e analisi della condizione limite per l'emergenza delle aree epicentrali dei terremoti della pianura emiliana di maggio-giugno 2012. Relazione illustrativa. Regione Emilia-Romagna - Servizio Geologico, Sismico e dei Suoli.

http://ambiente.regione.emiliaromagna.it/geologia/temi/sismica/speciale-terremoto/sisma-2012-ordinanza-70-13-11-2012-cartografia.

- MARTELLI L., BONINI M., CALABRESE L., CORTI G., ERCOLESSI G., MOLINARI F. C., PICCARDI L., PONDRELLI S., SANI F. AND SEVERI P. (2017A): Carta sismotettonica della Regione Emilia-Romagna e aree limitrofe. Con Note illustrative.
Regione Emilia-Romagna, Servizio geologico, sismico e dei suoli. D.R.E.AM. Italia.

- MELETTI C. e VALENSISE G., 2004. Zonazione sismogenetica ZS9-App. 2 al rapporto Conclusivo. In: "Gruppo di Lavoro MPS (2004). Redazione della mappa di pericolosità sismica prevista dall'Ordinanza PCm 3274 del 20 marzo 2003 ". Rapporto per il Dipartimento della Protezione Civile, INGV, Milano-Roma, aprile 2004, 65 pp. + 5 appendici.

- OPCM 3274/2003. Ordinanza del Presidente del Consiglio dei Ministri n. 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". G.U. n. 155, 08/05/2003, suppl. ord. N. 72.

- ROVIDA A., LOCATI M., CAMASSI R., LOLLI B., GASPERINI P. (EDS) (2016): CPTI15, the 2015 version of the Parametric Catalogue of Italian Earthquakes. Istituto Nazionale di Geofisica e Vulcanologia.
doi:http://doi.org/10.6092/INGV.IT-CPTI15

- TERTULLIANI A., ARCORACI L., BERARDI M., BERNARDINI F., BRIZUELA B., CASTELLANO C., DEL MESE S., ERCOLANI E., GRAZIANIL., MARAMAI A., ROSSI A., SBARRA M., VECCHI M. (2012): The Emilia 2012 sequence: a macroseismic survey.
In "2012 EMILIA EARTHQUAKES", Annals of Geophysics, 55, 4, 2012; doi: 10.4401/ag-6140

11. ALLEGATI

Verifica Potenziale di Liquefazione

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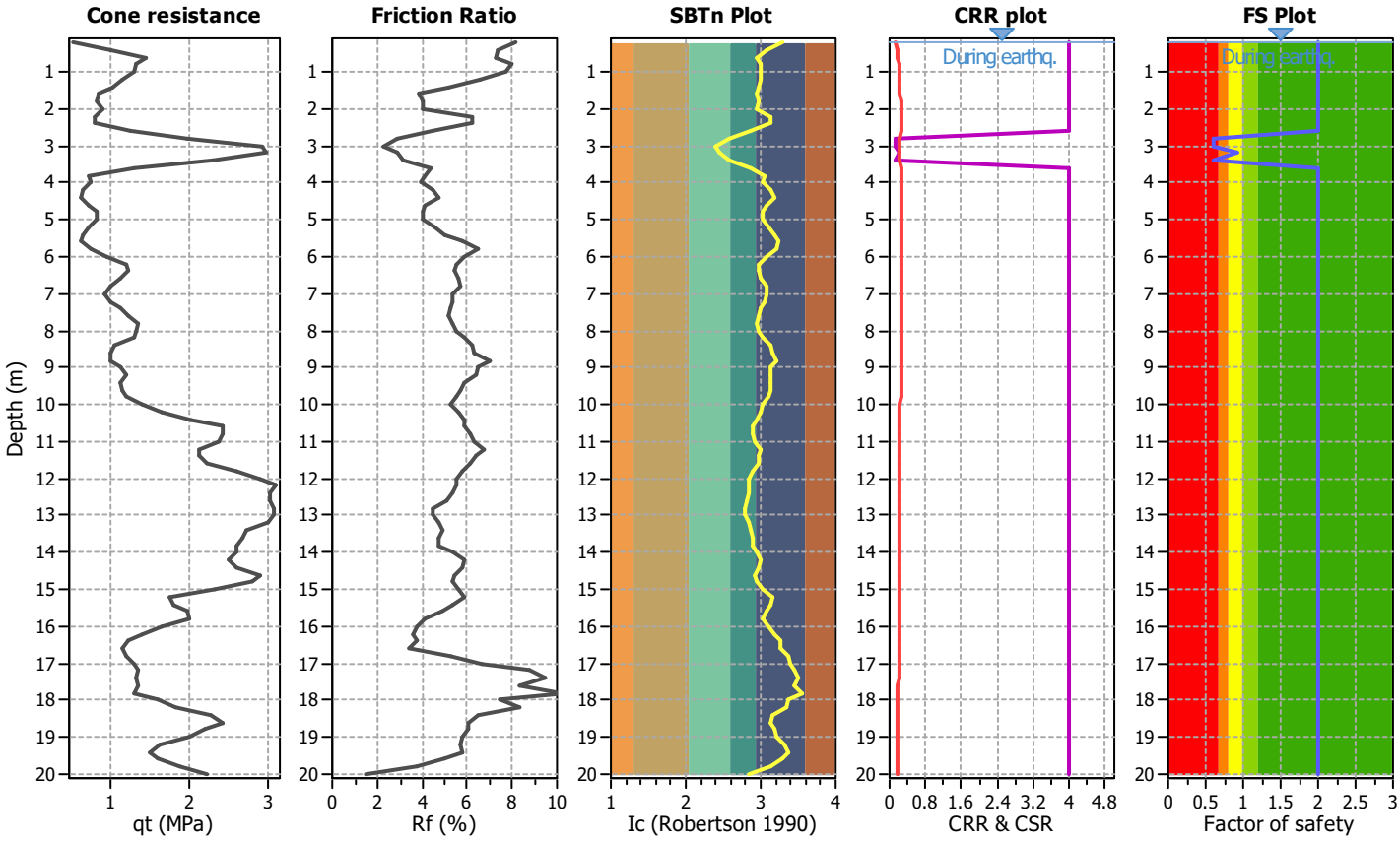
LIQUEFACTION ANALYSIS REPORT

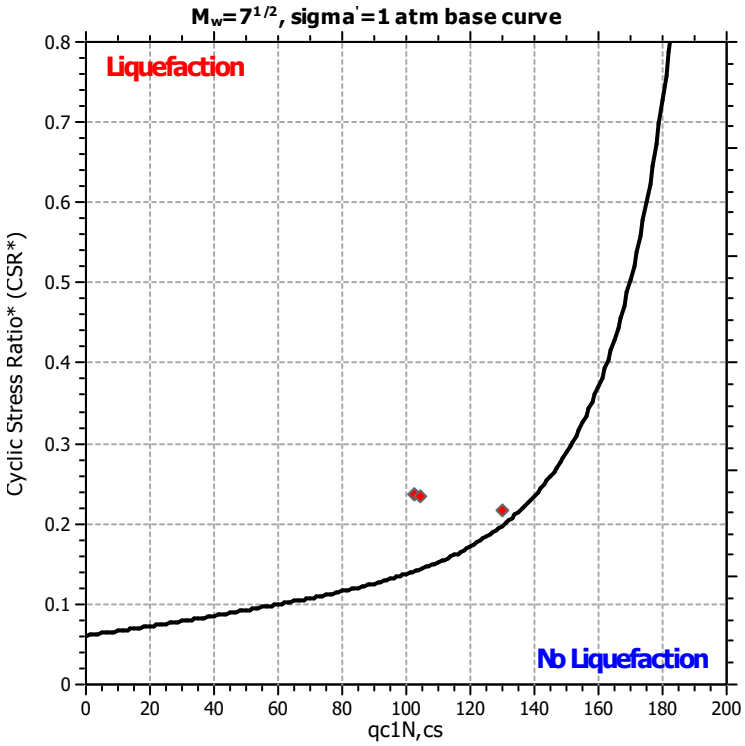
Project title : **Location :**

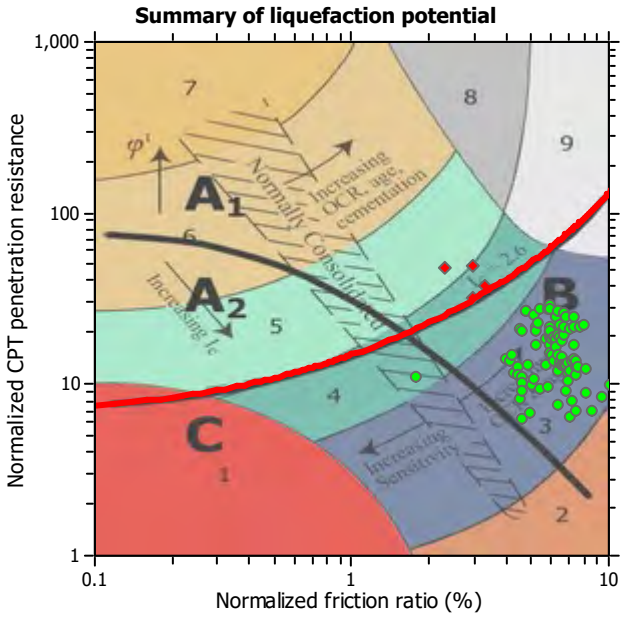
CPT file : SP004

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

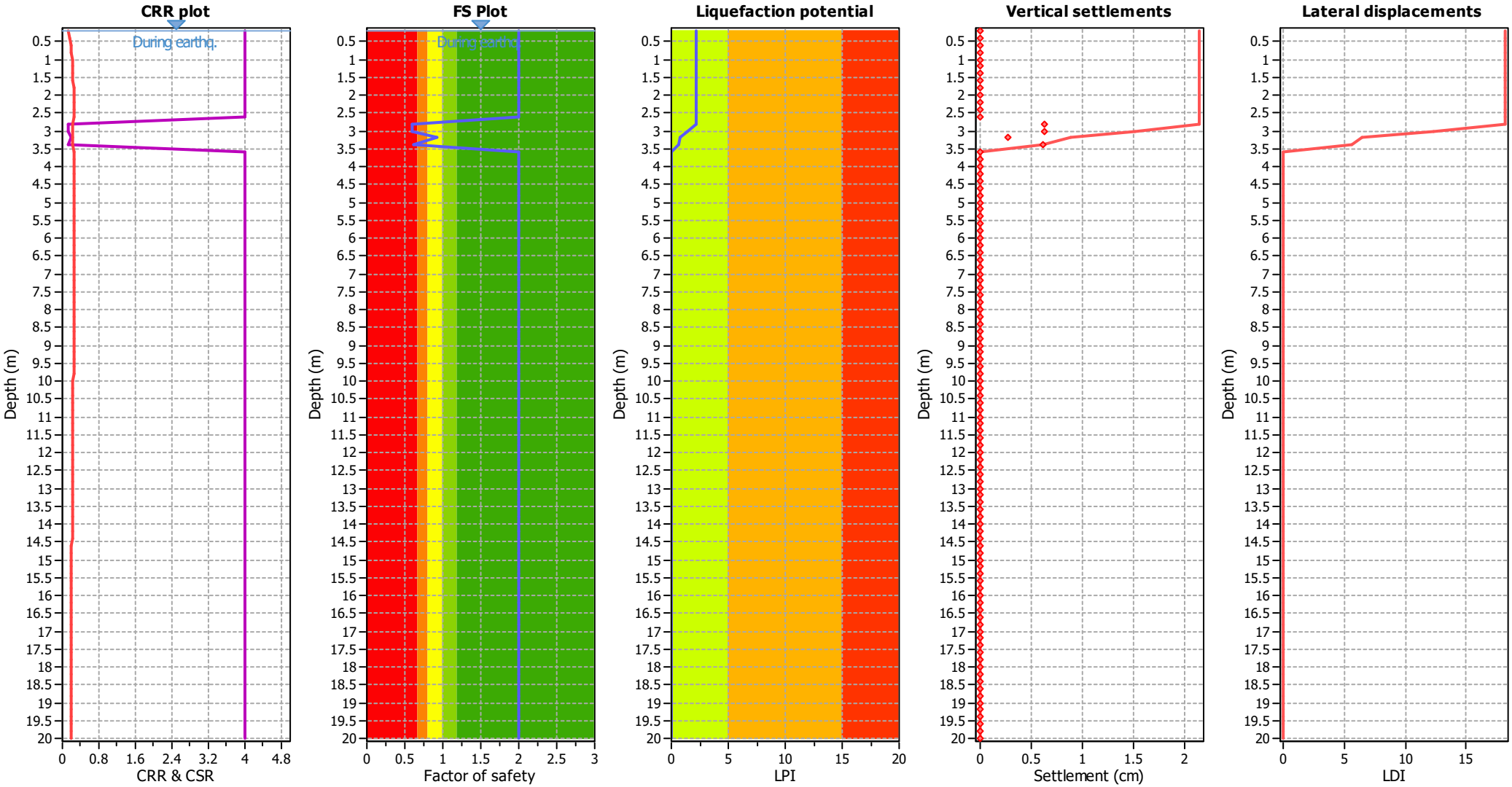






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	0.60	0.40	0.63	0.20	0.69
3.00	0.60	0.40	0.63	0.20	0.68	3.20	0.92	0.00	0.00	0.20	0.14
3.40	0.61	0.39	0.66	0.20	0.64	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.15

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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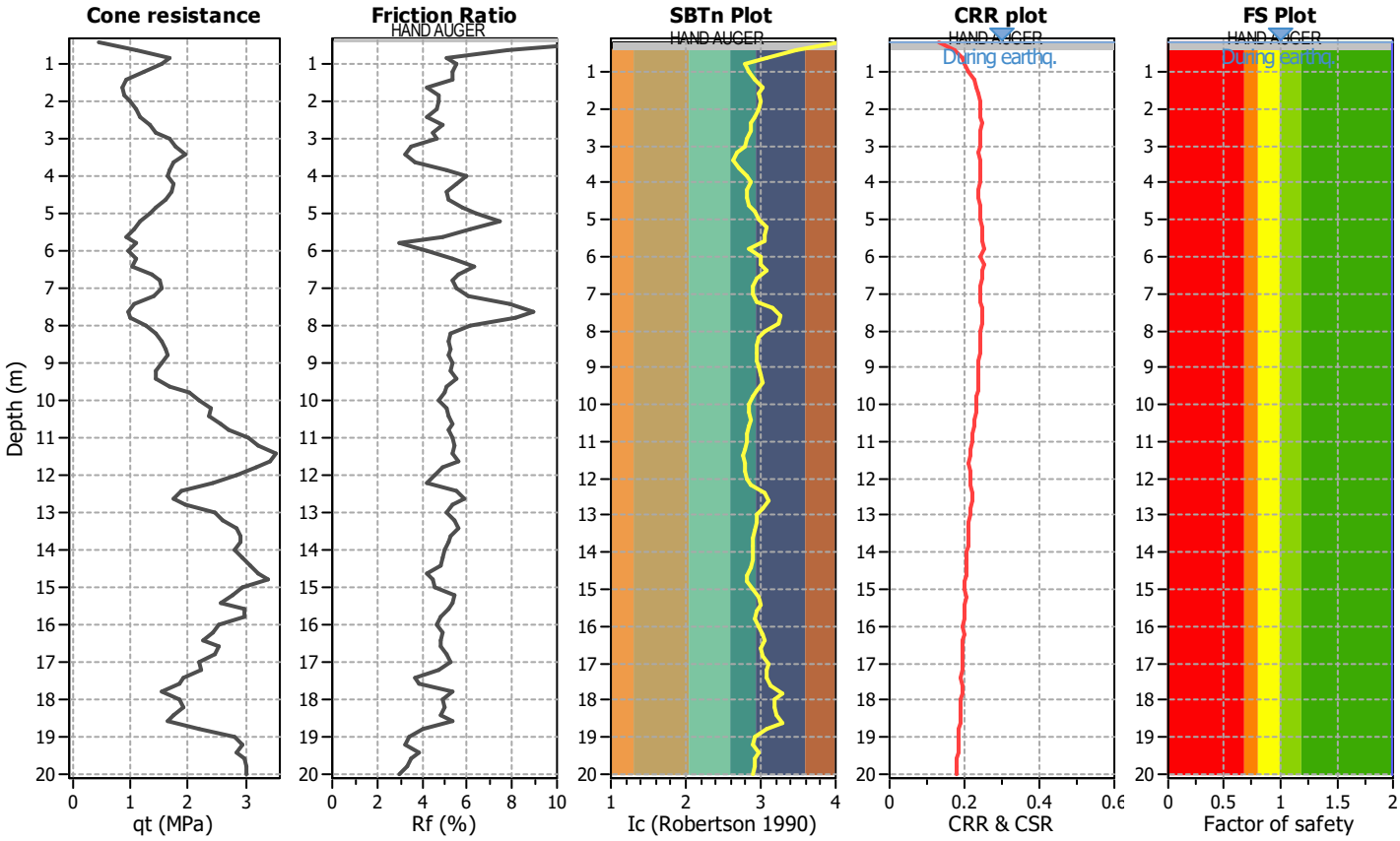
LIQUEFACTION ANALYSIS REPORT

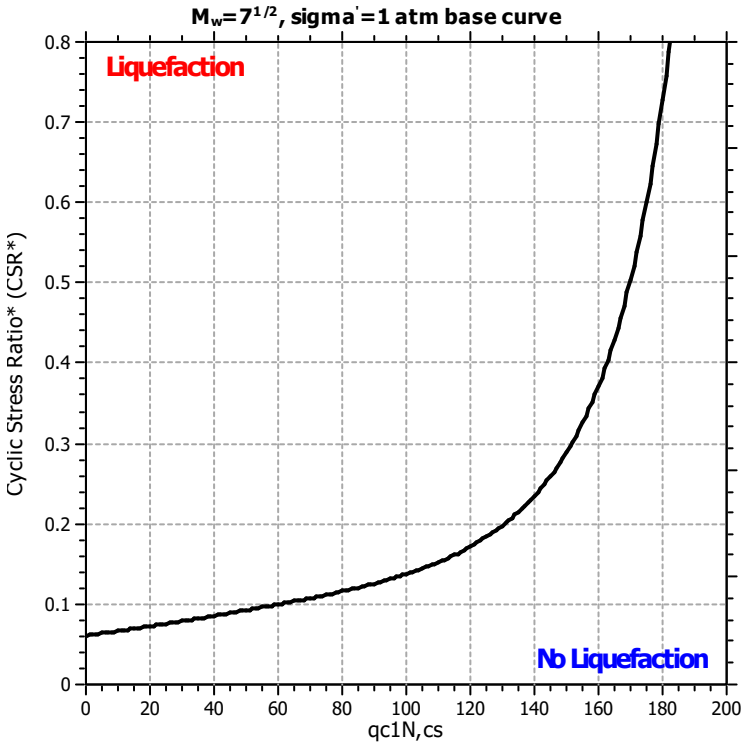
Project title : **Location :**

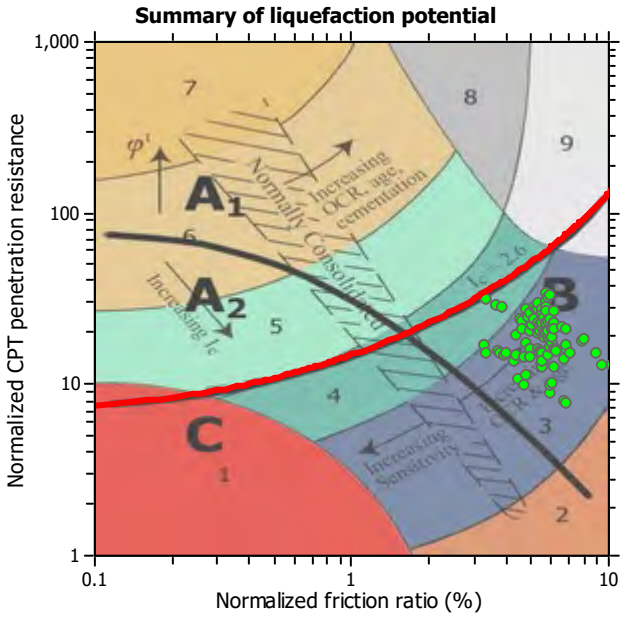
CPT file : SP005

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

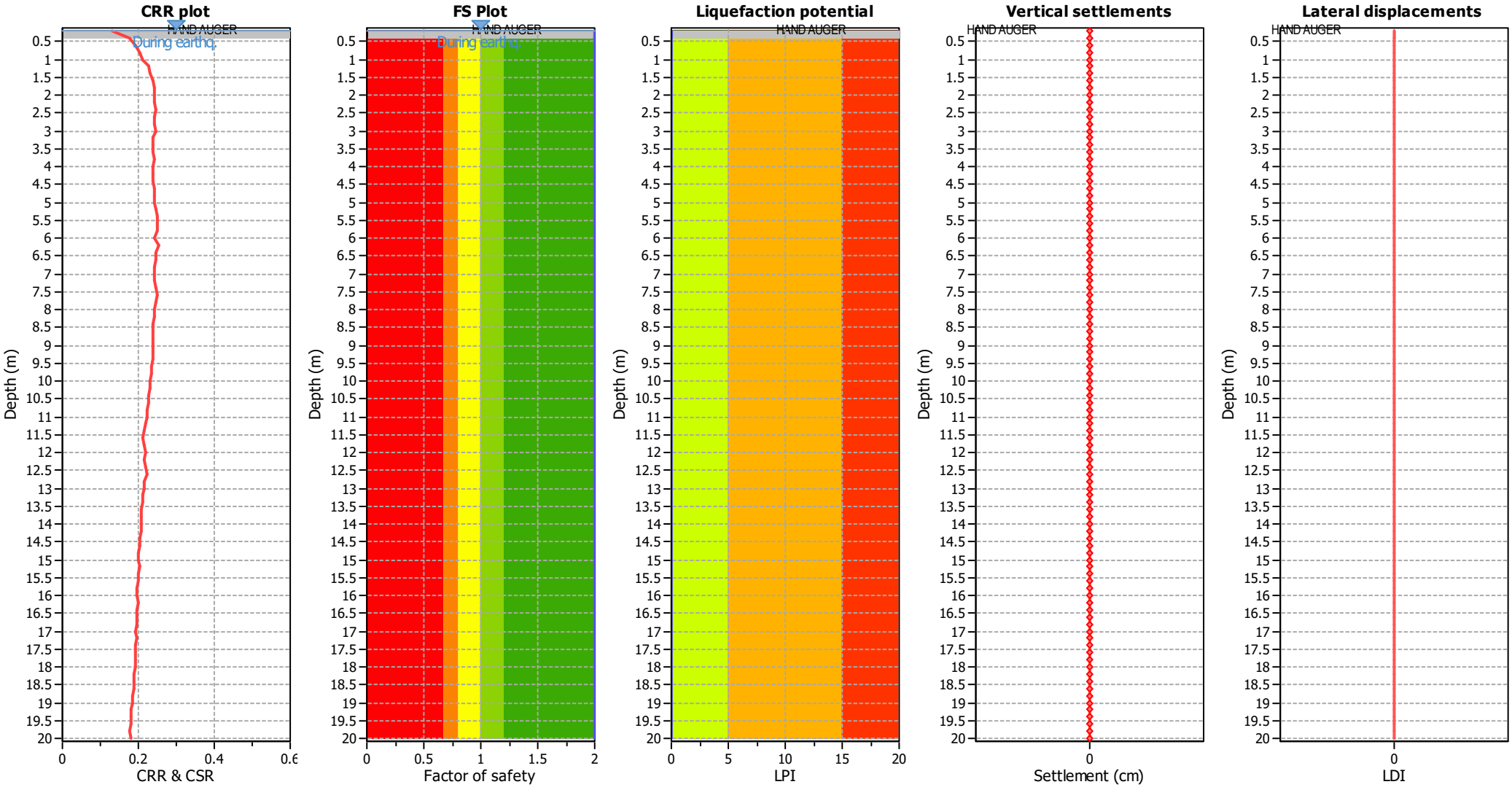






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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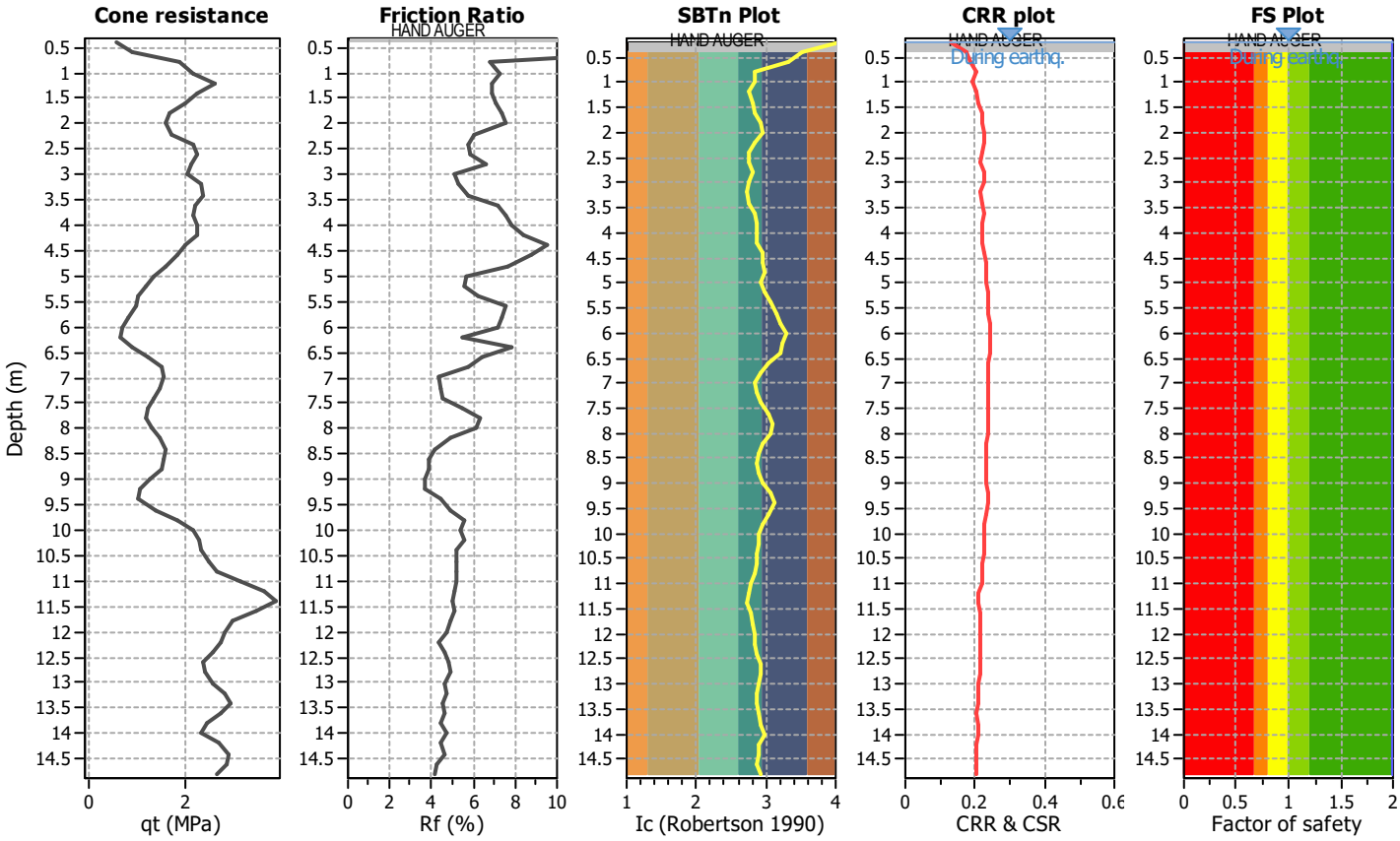
LIQUEFACTION ANALYSIS REPORT

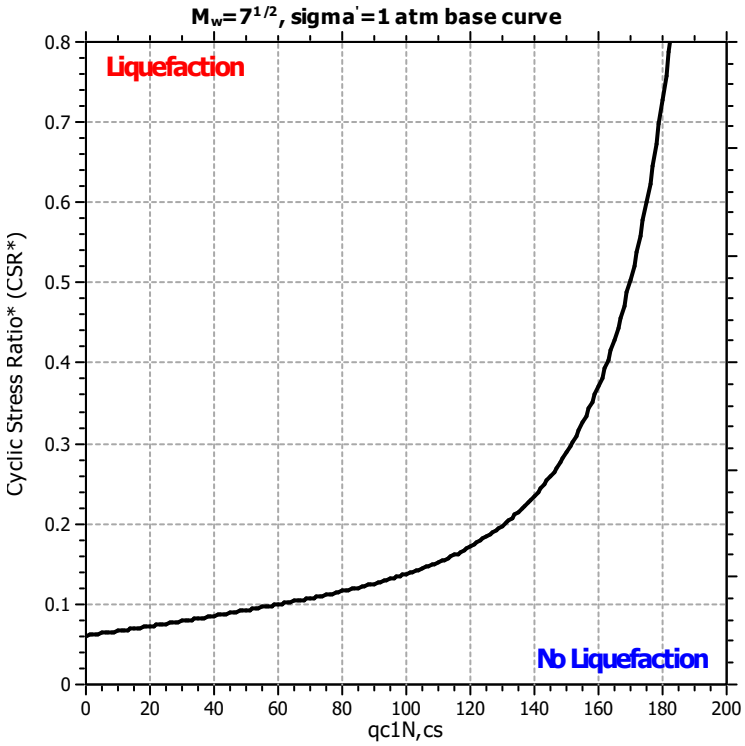
Project title : **Location :**

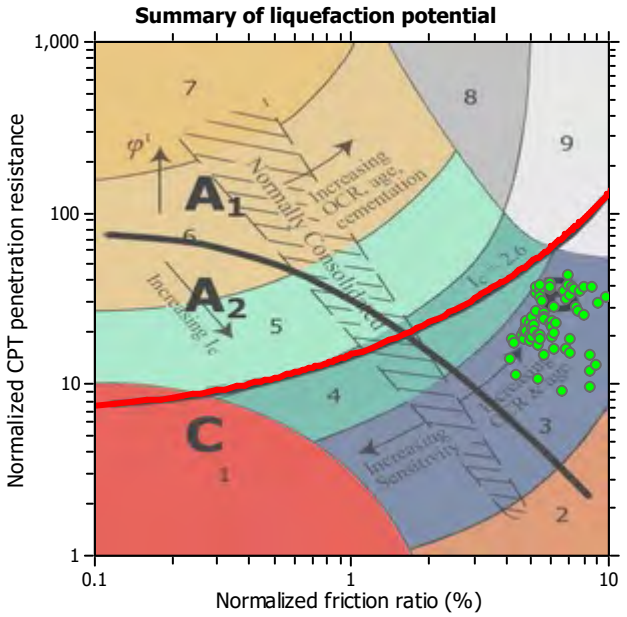
CPT file : SP006

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

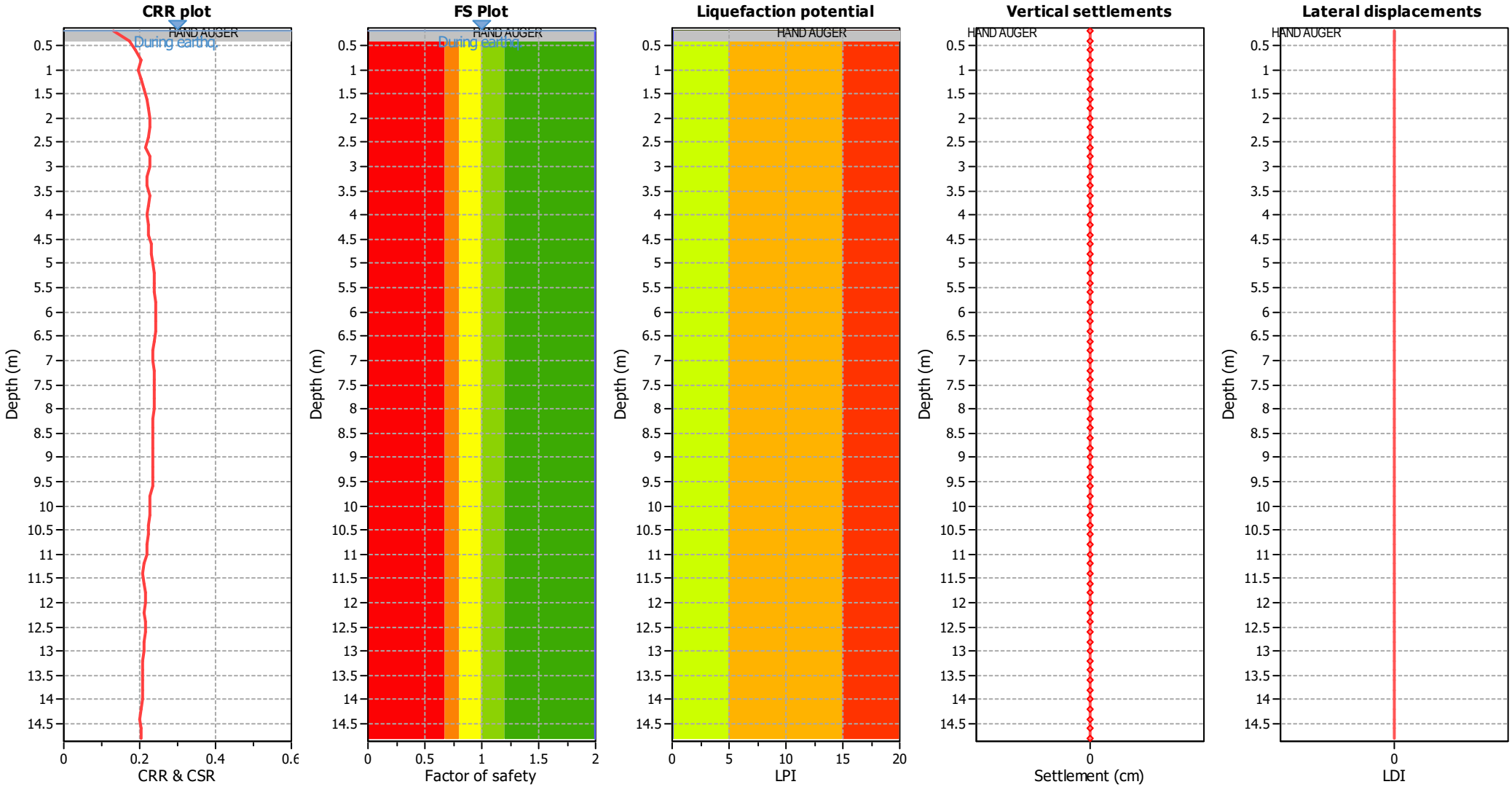






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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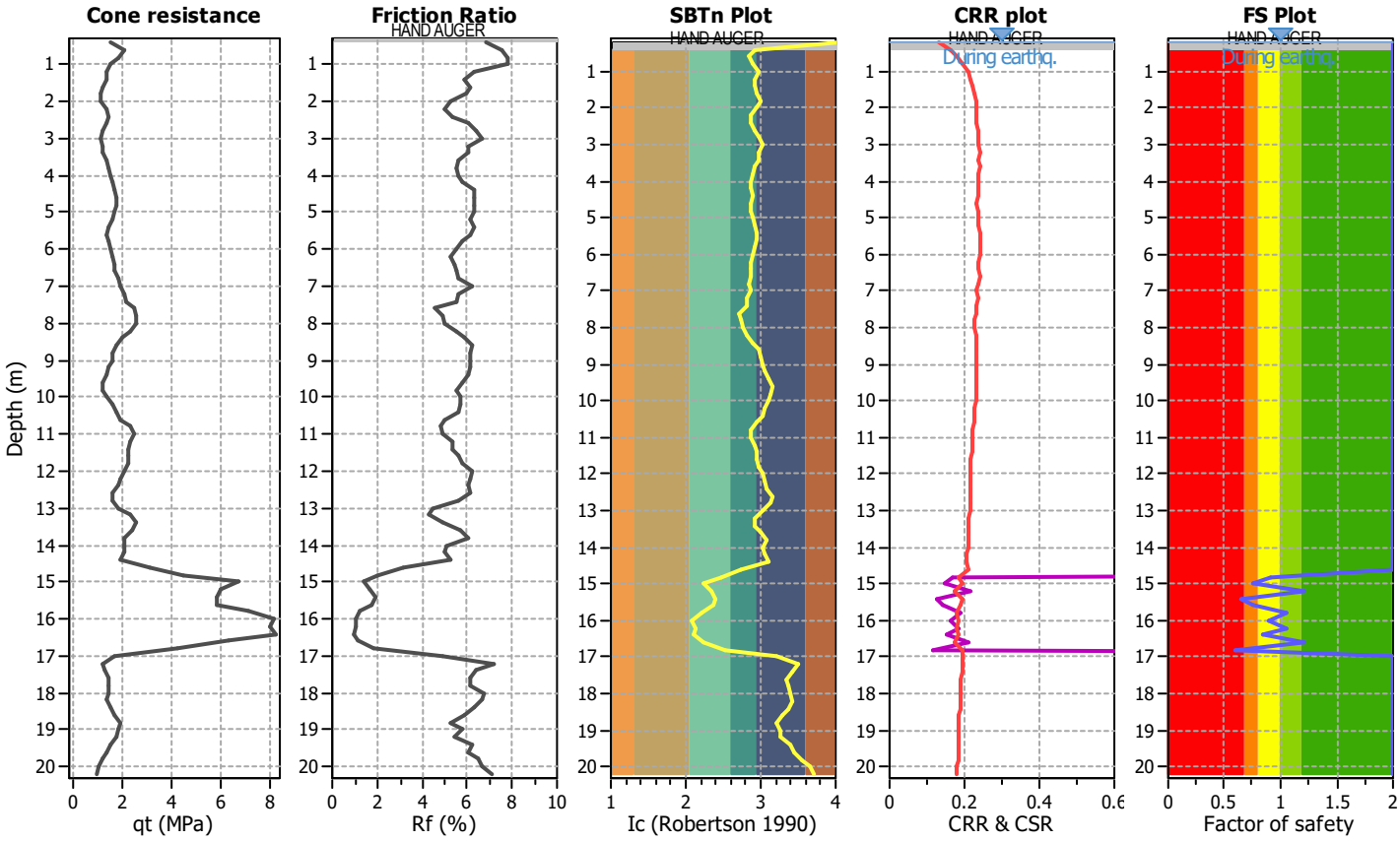
LIQUEFACTION ANALYSIS REPORT

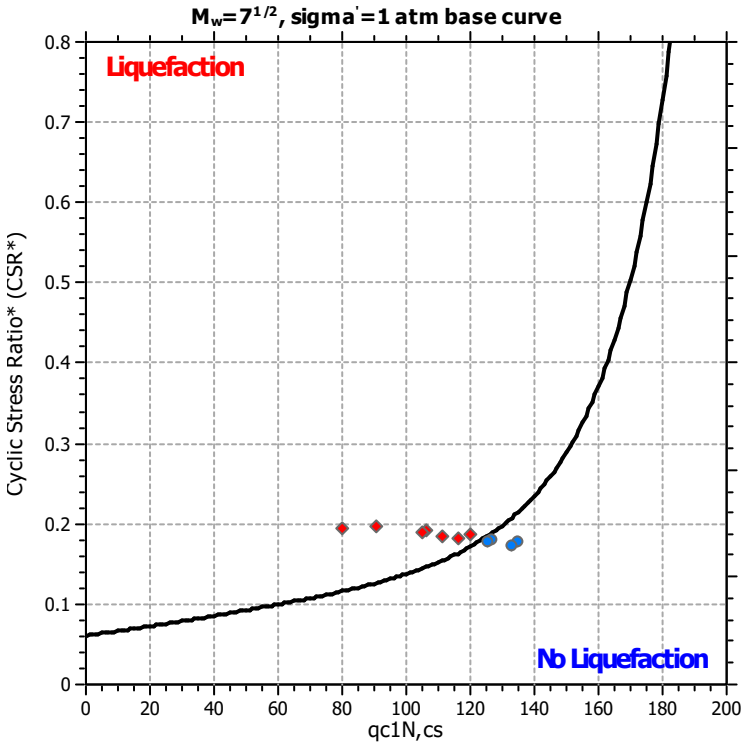
Project title : **Location :**

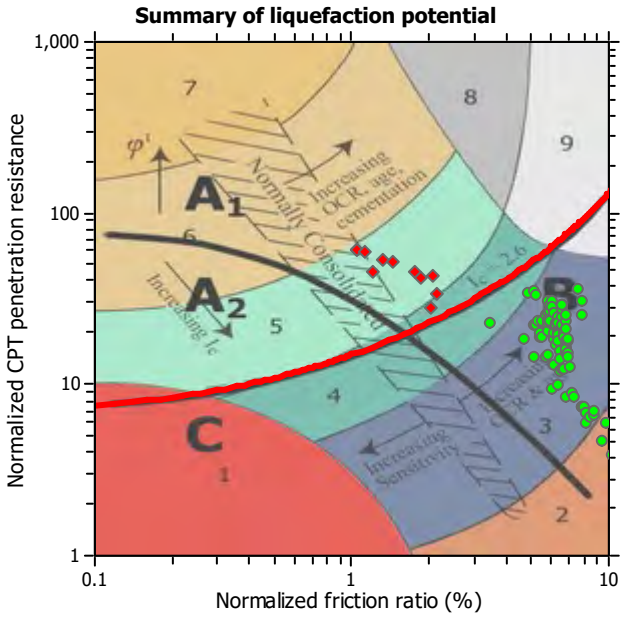
CPT file : SP008

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

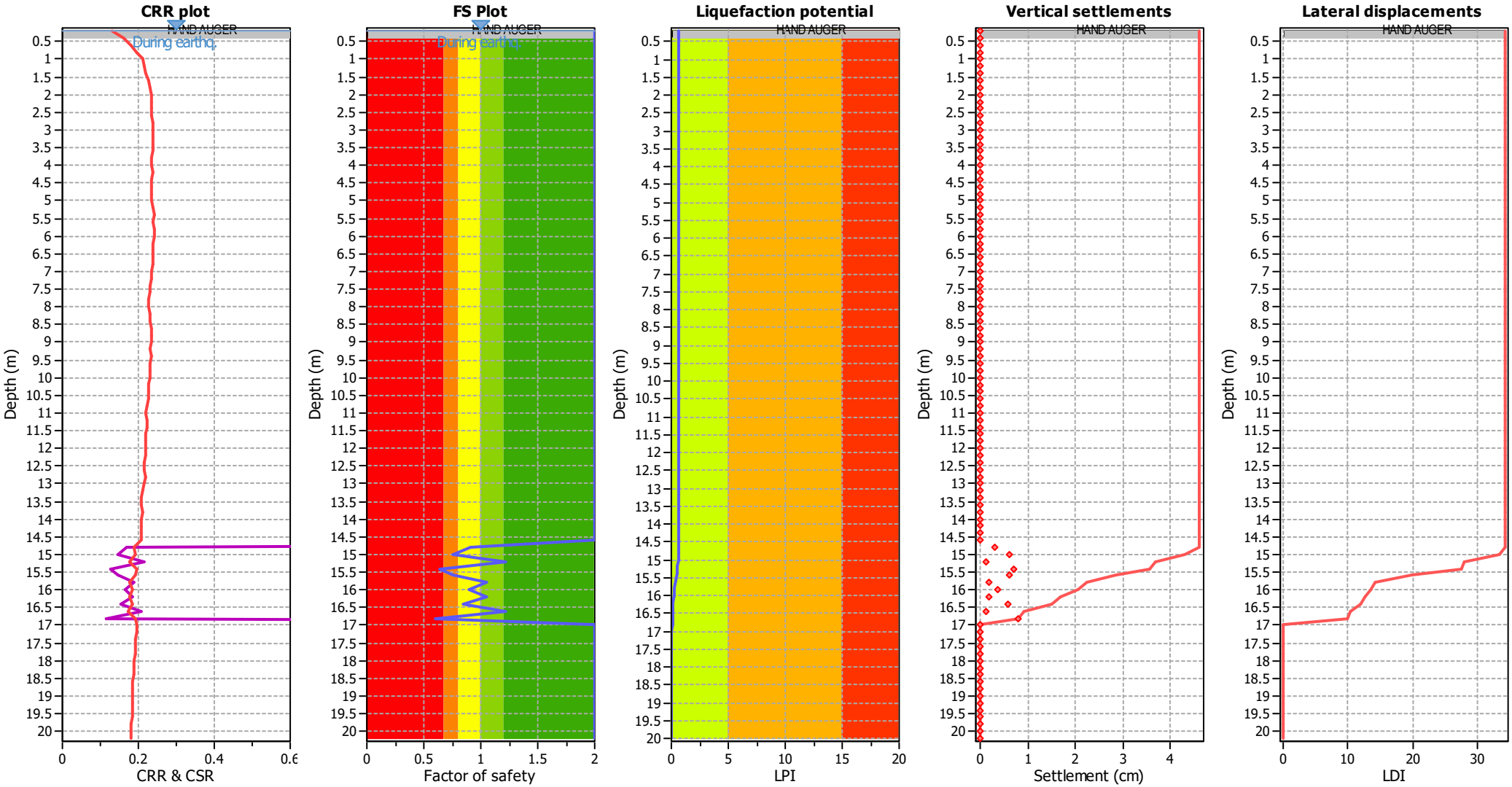






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	0.92	0.08	9.30	0.20	0.04
15.00	0.76	0.24	1.25	0.20	0.12	15.20	1.22	0.00	0.00	0.20	0.00
15.40	0.64	0.36	0.72	0.20	0.17	15.60	0.76	0.24	1.24	0.20	0.11
15.80	1.05	0.00	0.00	0.20	0.00	16.00	0.89	0.11	5.36	0.20	0.04
16.20	1.05	0.00	0.00	0.20	0.00	16.40	0.84	0.16	2.44	0.20	0.06
16.60	1.21	0.00	0.00	0.20	0.00	16.80	0.60	0.40	0.63	0.20	0.13
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00
20.20	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.66

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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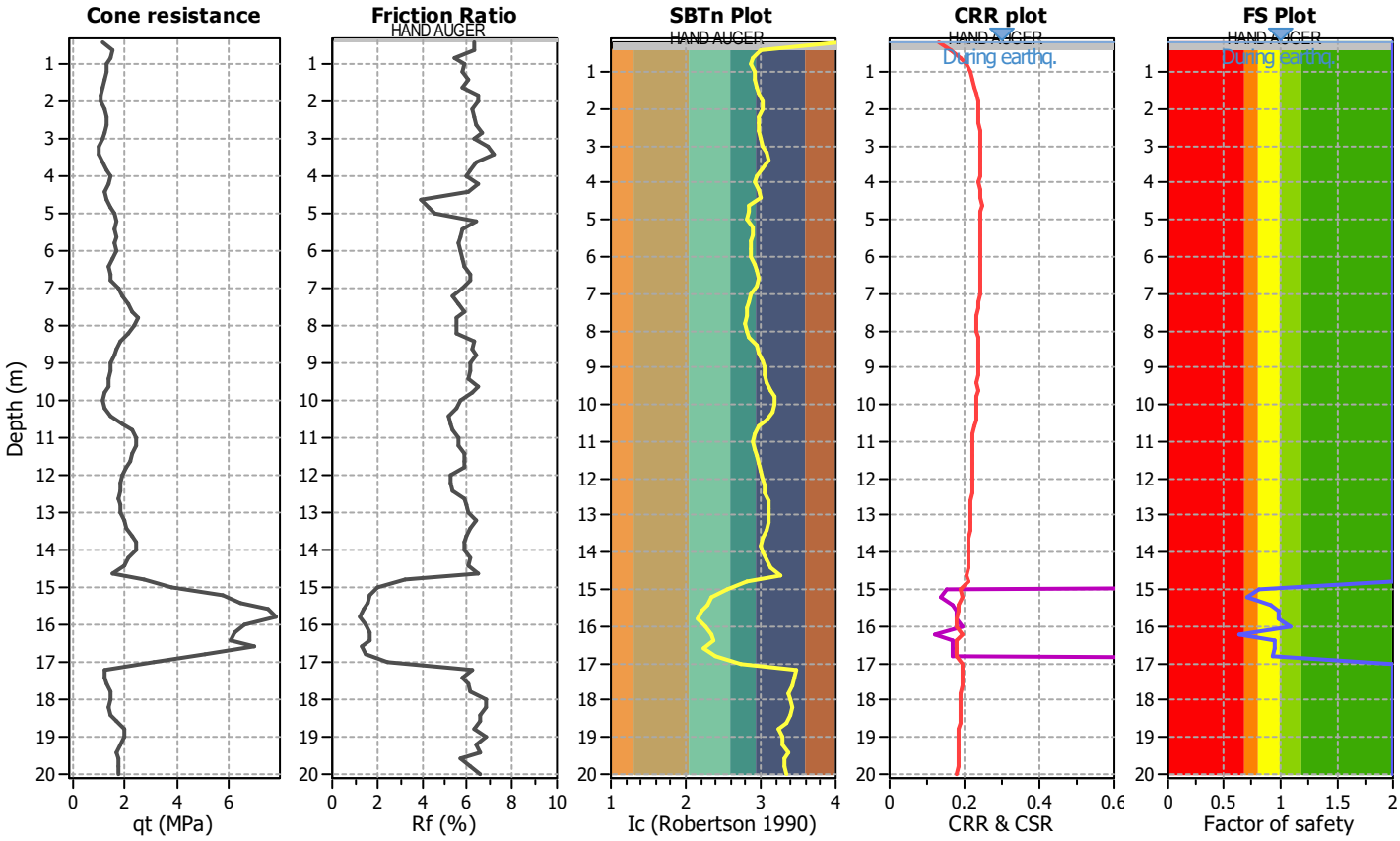
LIQUEFACTION ANALYSIS REPORT

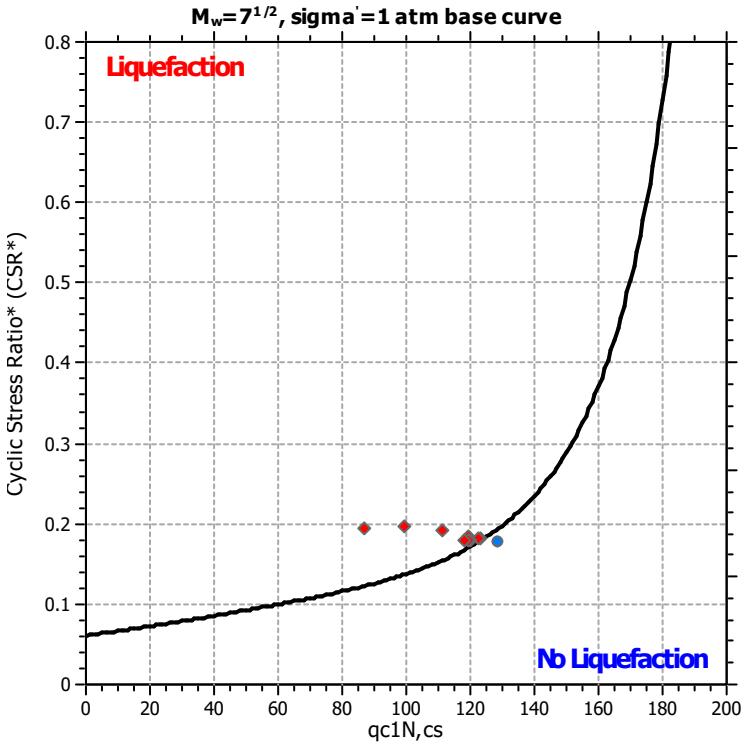
Project title : **Location :**

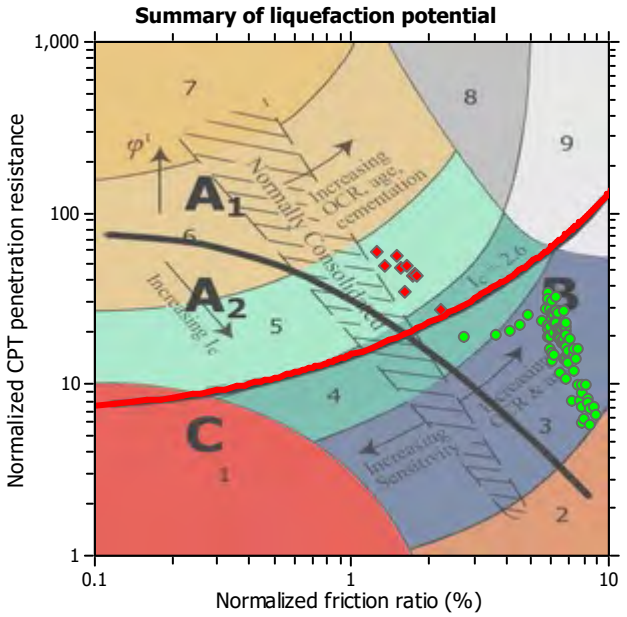
CPT file : SP009

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

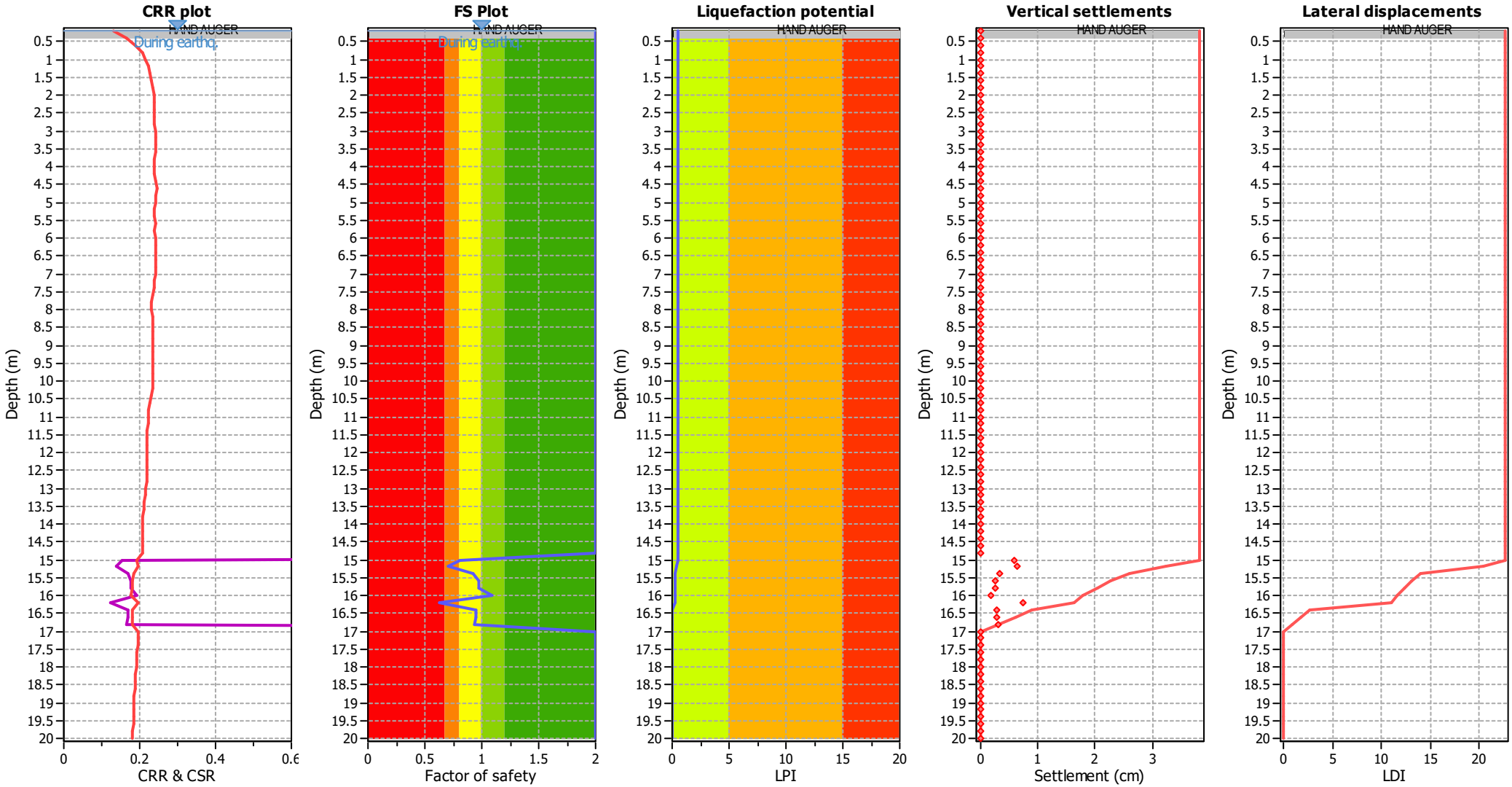






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	0.81	0.00	0.00	0.20	0.10	15.20	0.70	0.00	0.00	0.20	0.14
15.40	0.92	0.00	0.00	0.20	0.04	15.60	0.98	0.00	0.00	0.20	0.01
15.80	0.98	0.00	0.00	0.20	0.01	16.00	1.09	0.00	0.00	0.20	0.00
16.20	0.63	0.00	0.00	0.20	0.14	16.40	0.95	0.00	0.00	0.20	0.02
16.60	0.94	0.00	0.00	0.20	0.02	16.80	0.93	0.00	0.00	0.20	0.02
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.50

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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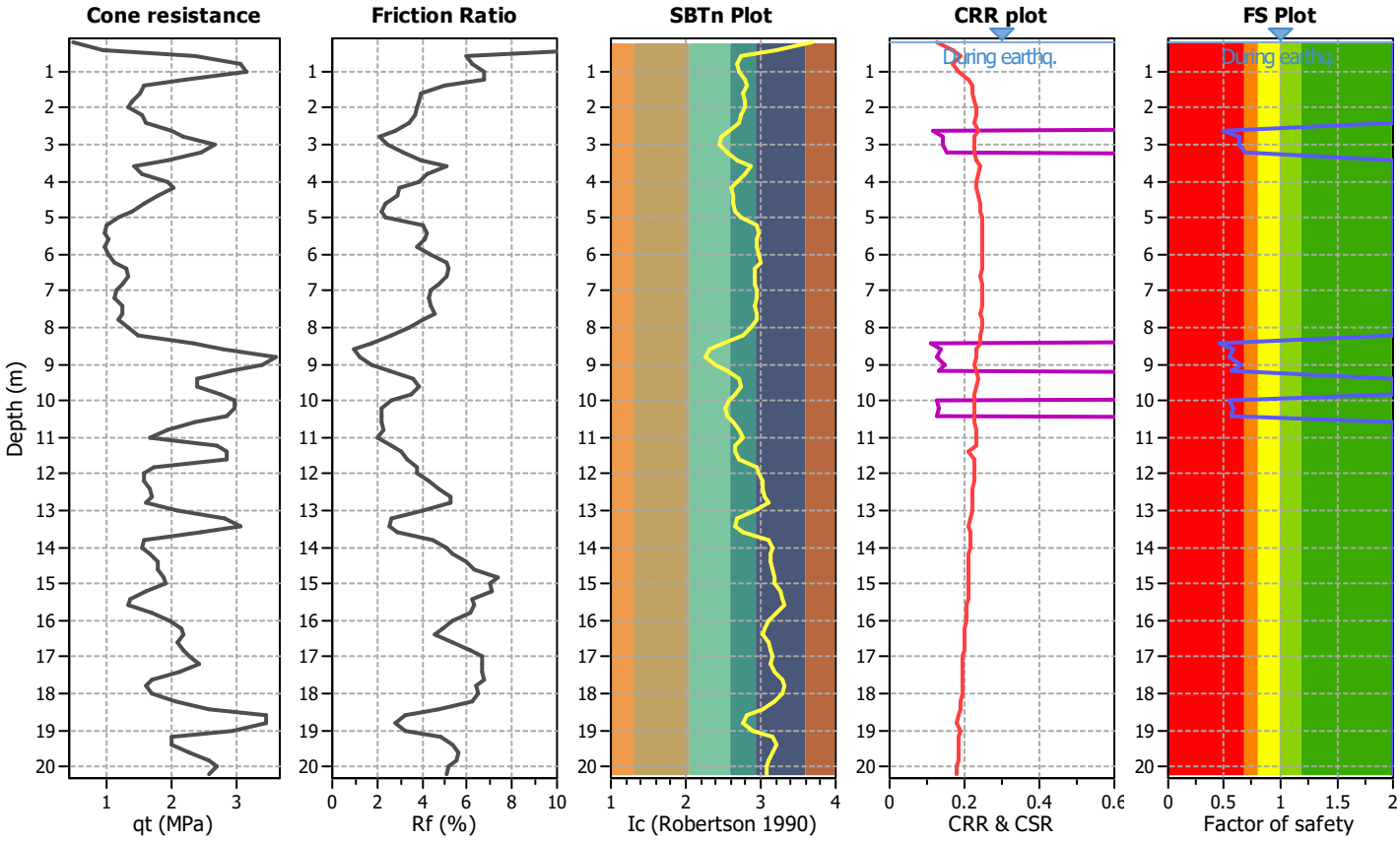
LIQUEFACTION ANALYSIS REPORT

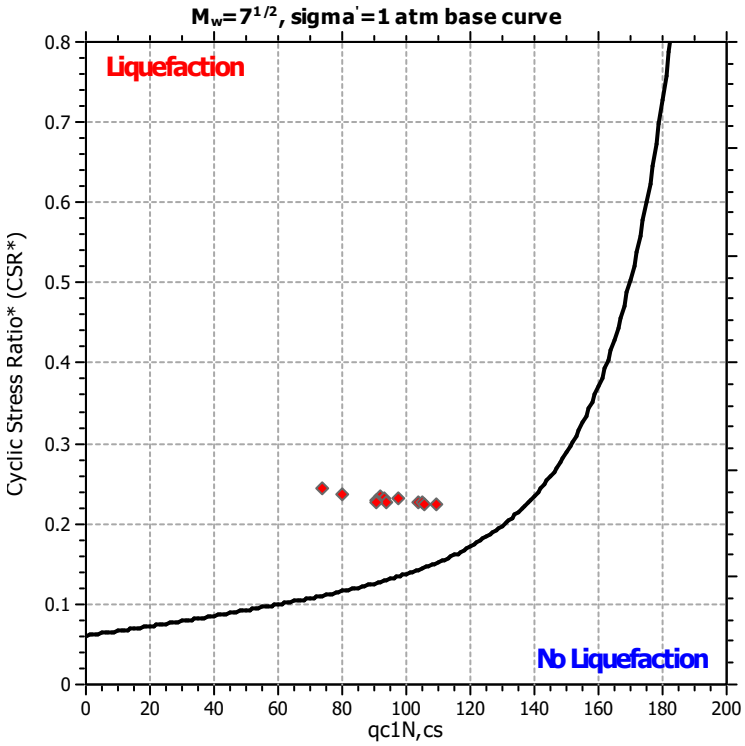
Project title : **Location :**

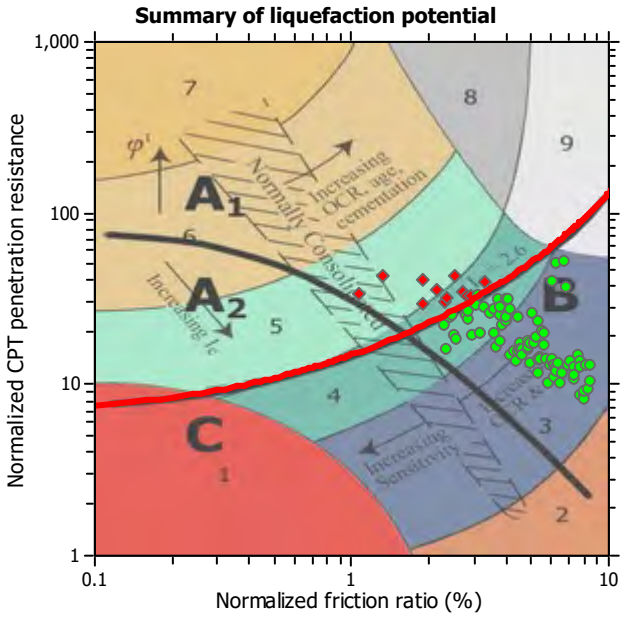
CPT file : SP011

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

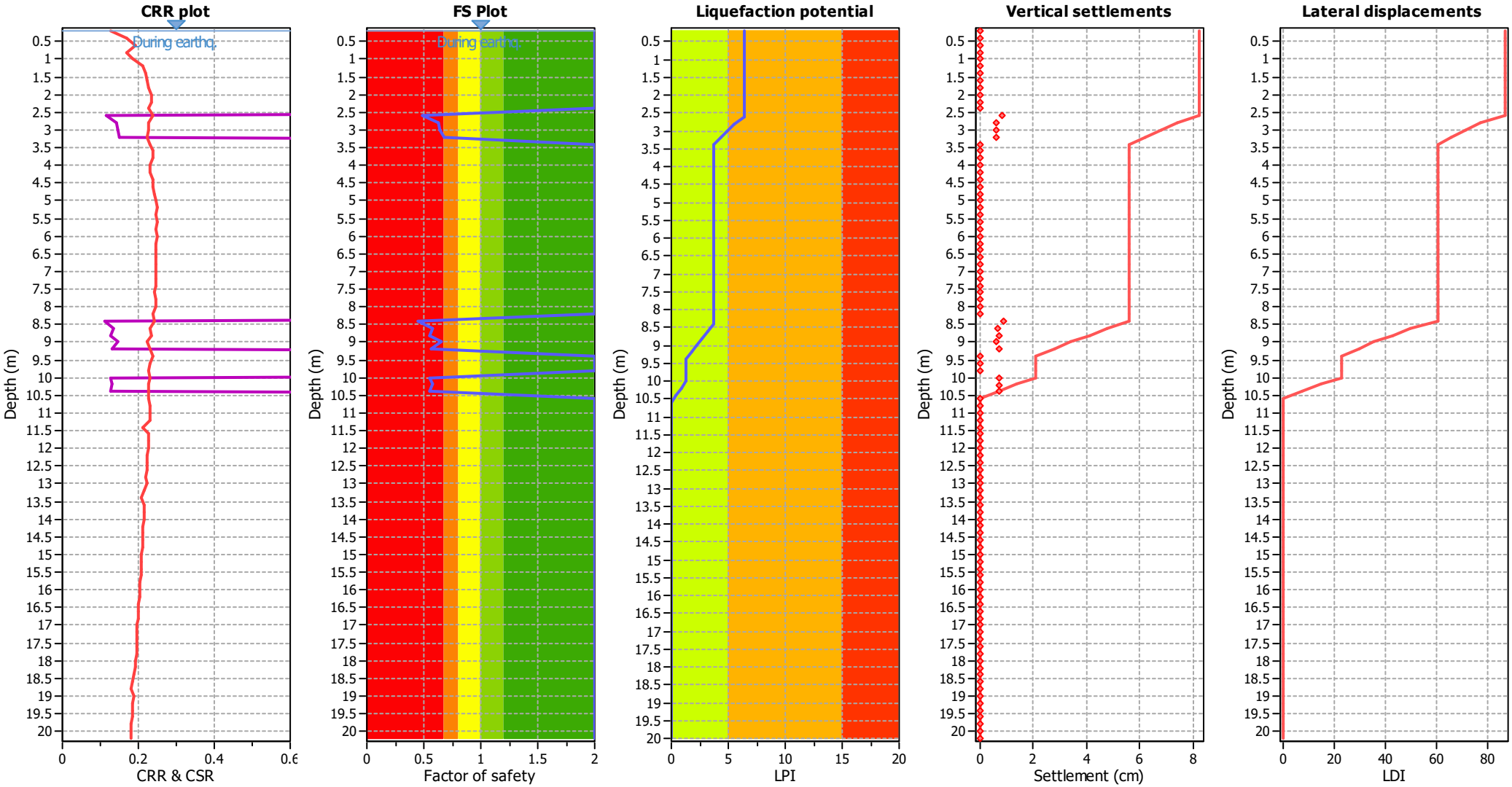






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	0.49	0.51	0.47	0.20	0.89	2.80	0.63	0.37	0.69	0.20	0.64
3.00	0.64	0.36	0.72	0.20	0.61	3.20	0.68	0.32	0.83	0.20	0.55
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	0.45	0.55	0.43	0.20	0.63
8.60	0.58	0.42	0.60	0.20	0.48	8.80	0.55	0.45	0.54	0.20	0.51
9.00	0.65	0.35	0.74	0.20	0.39	9.20	0.56	0.44	0.56	0.20	0.48
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	0.55	0.45	0.55	0.20	0.45
10.20	0.57	0.43	0.58	0.20	0.42	10.40	0.56	0.44	0.55	0.20	0.43
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00
20.20	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 6.46

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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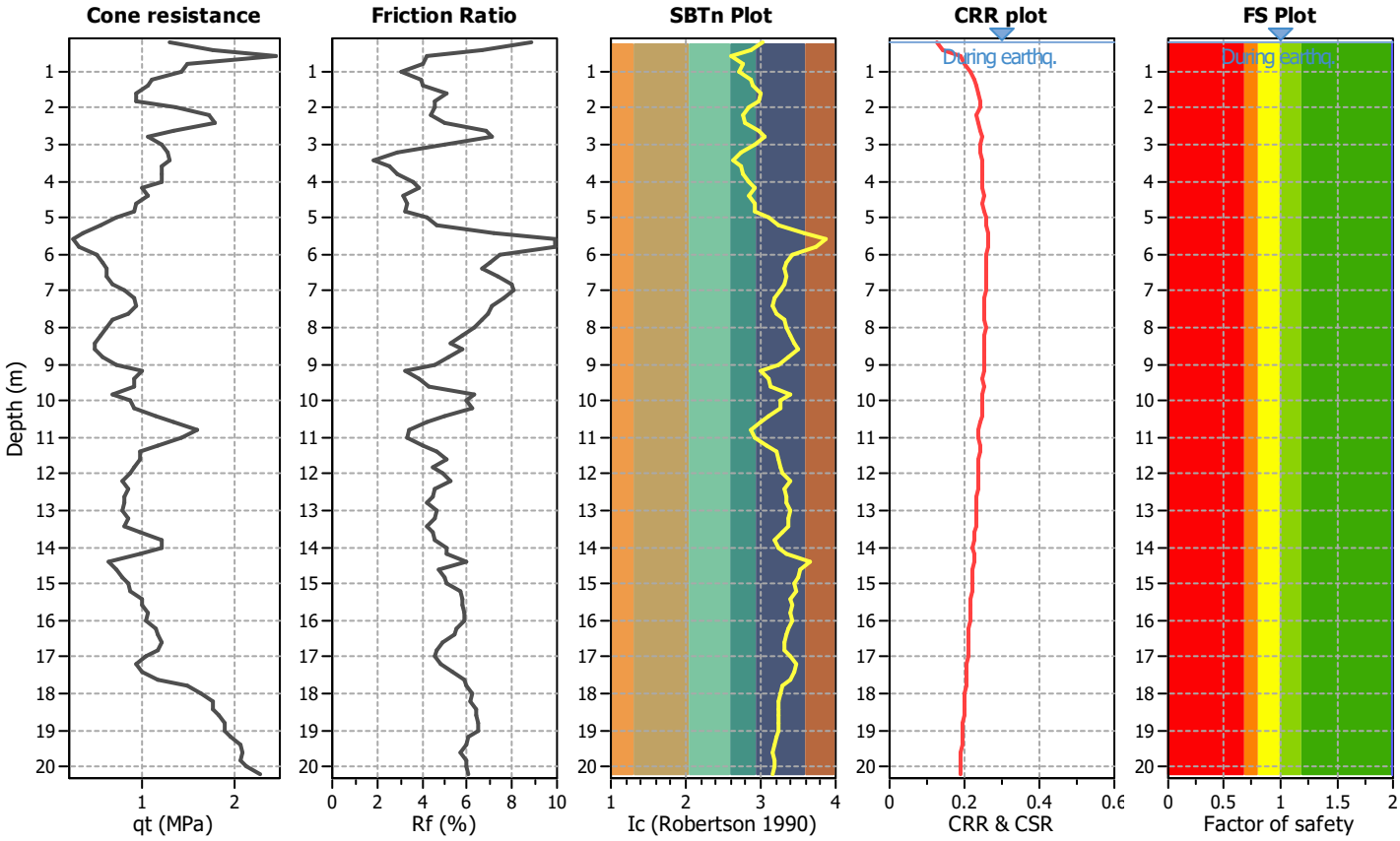
LIQUEFACTION ANALYSIS REPORT

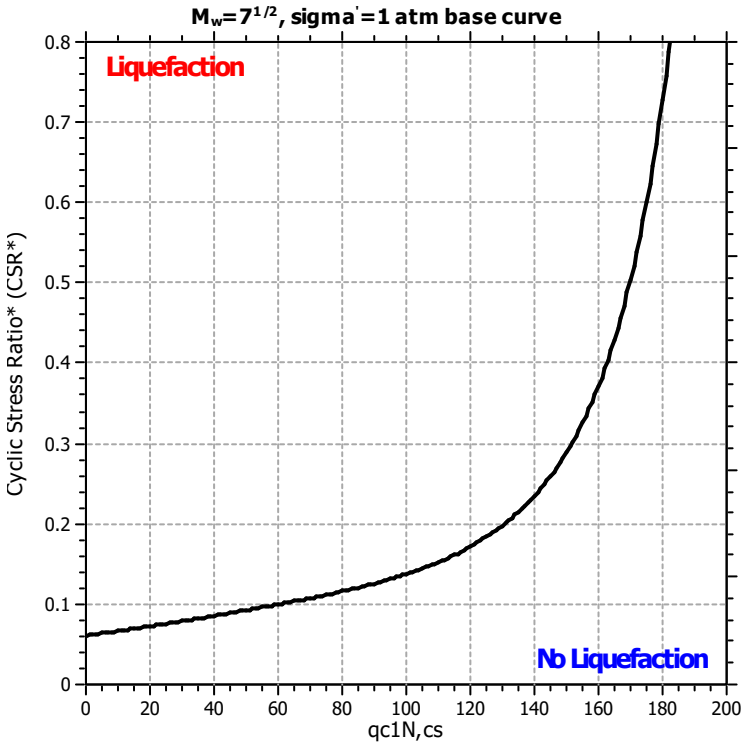
Project title : **Location :**

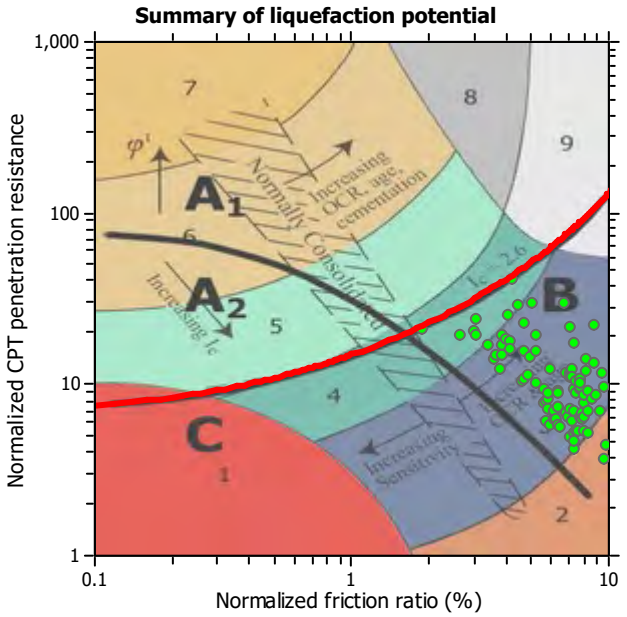
CPT file : SP013

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

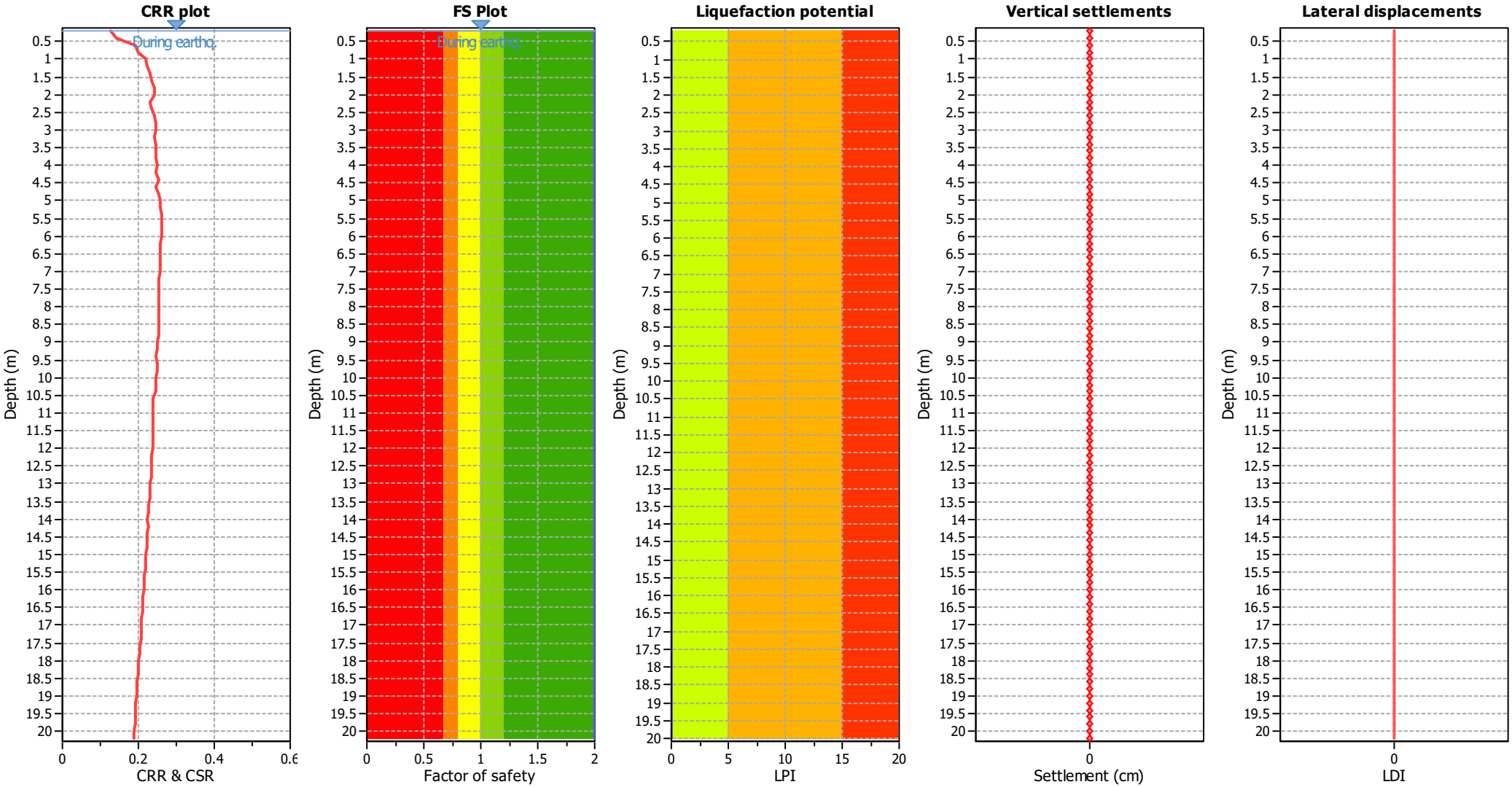






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00
20.20	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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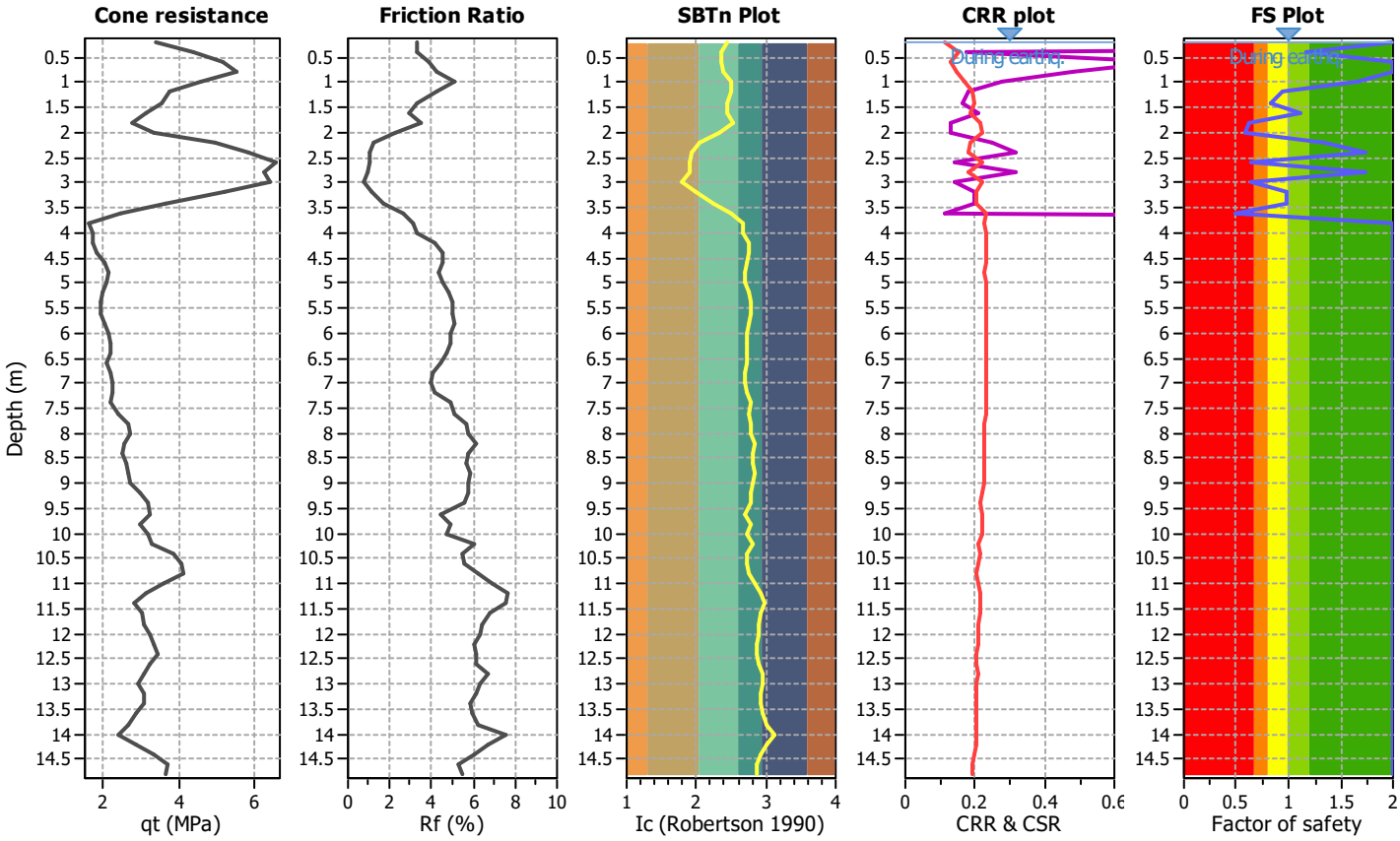
LIQUEFACTION ANALYSIS REPORT

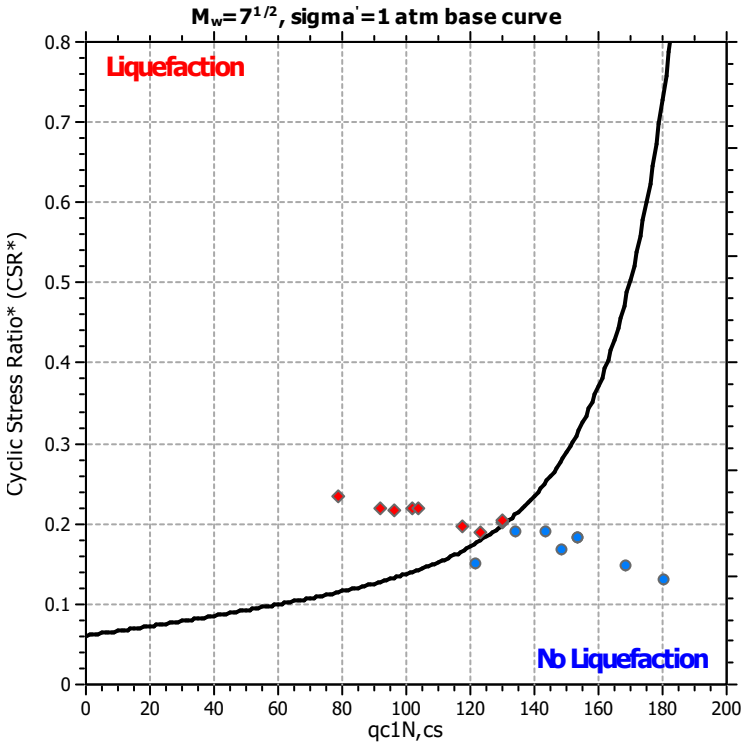
Project title : **Location :**

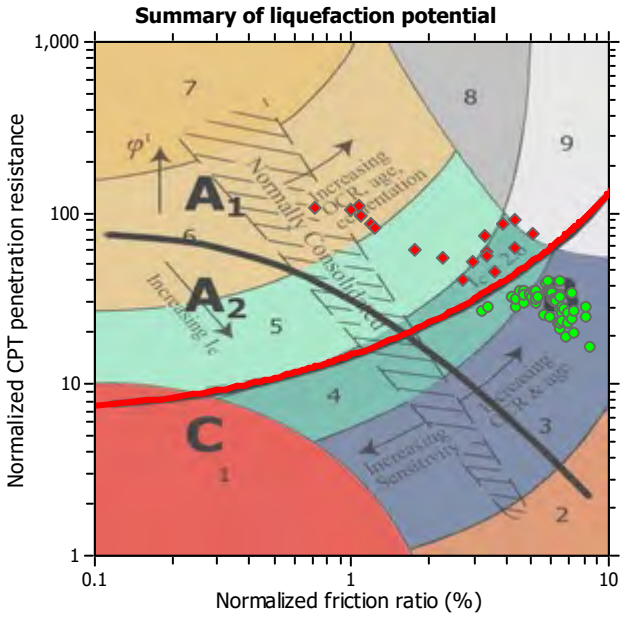
CPT file : SP015

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

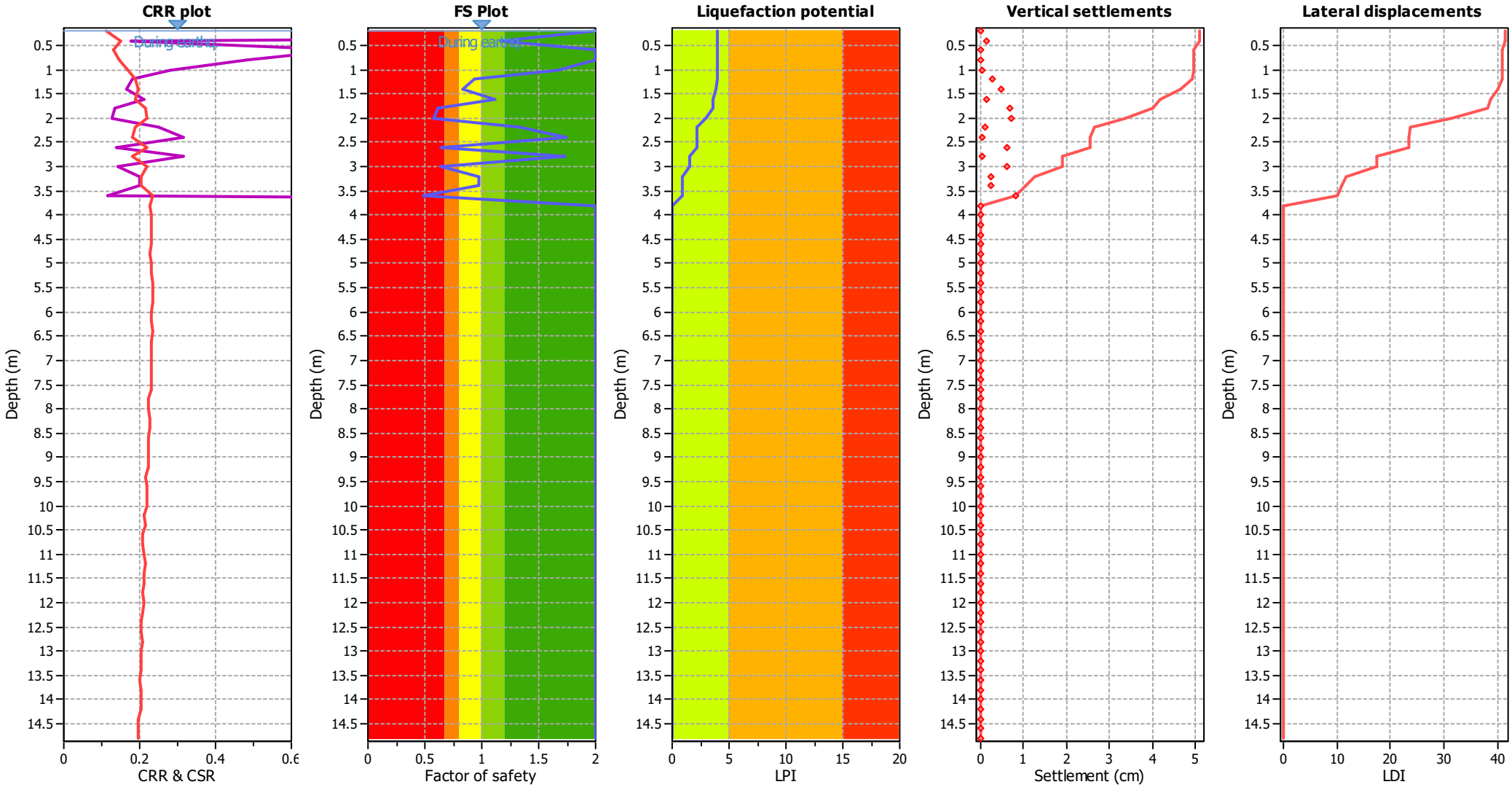






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	1.17	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	1.67	0.00	0.00	0.20	0.00	1.20	0.94	0.00	0.00	0.20	0.11
1.40	0.84	0.00	0.00	0.20	0.30	1.60	1.12	0.00	0.00	0.20	0.00
1.80	0.62	0.00	0.00	0.20	0.70	2.00	0.58	0.00	0.00	0.20	0.76
2.20	1.33	0.00	0.00	0.20	0.00	2.40	1.74	0.00	0.00	0.20	0.00
2.60	0.64	0.00	0.00	0.20	0.63	2.80	1.73	0.00	0.00	0.20	0.00
3.00	0.65	0.35	0.74	0.20	0.60	3.20	0.98	0.00	0.00	0.20	0.04
3.40	0.97	0.00	0.00	0.20	0.04	3.60	0.49	0.51	0.47	0.20	0.83
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.01

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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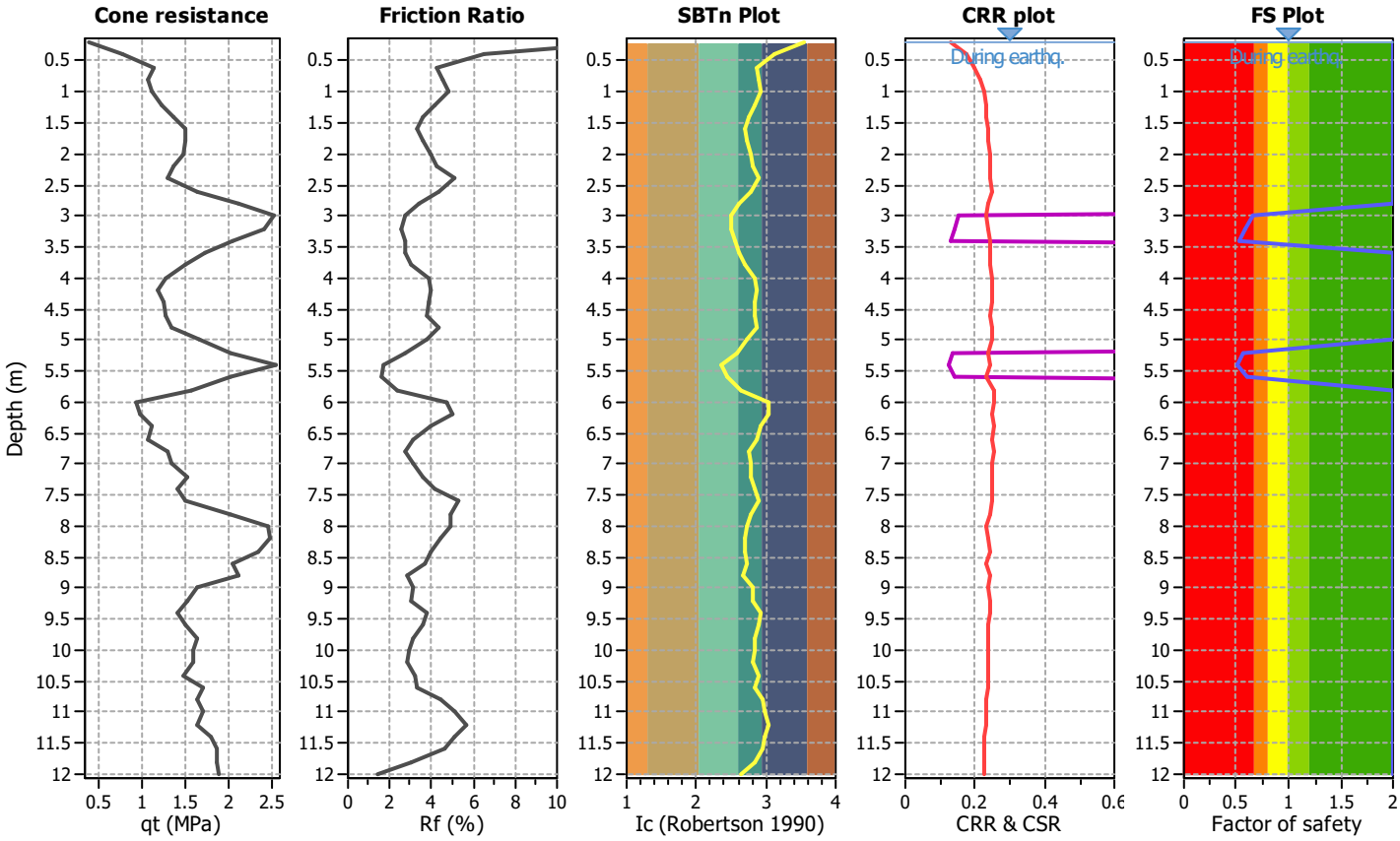
LIQUEFACTION ANALYSIS REPORT

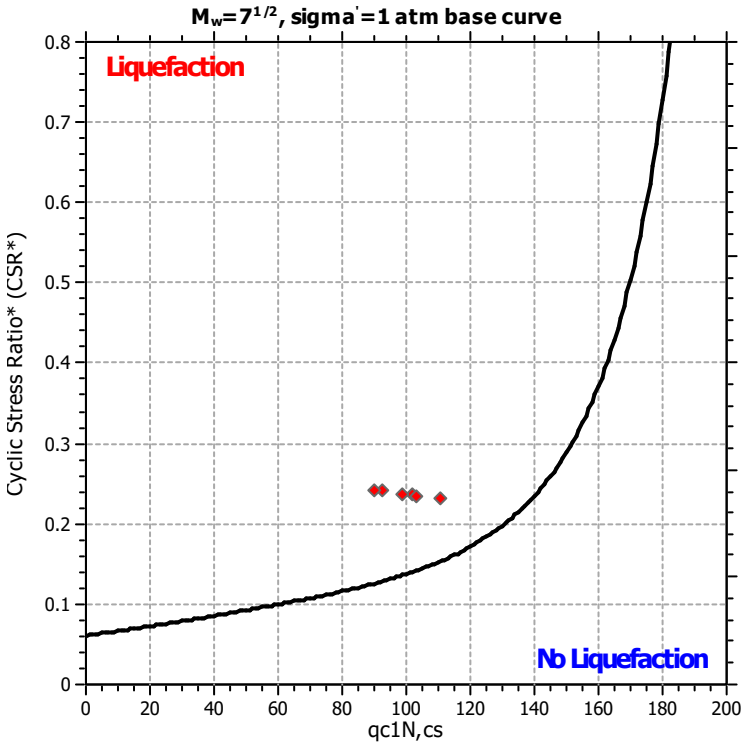
Project title : **Location :**

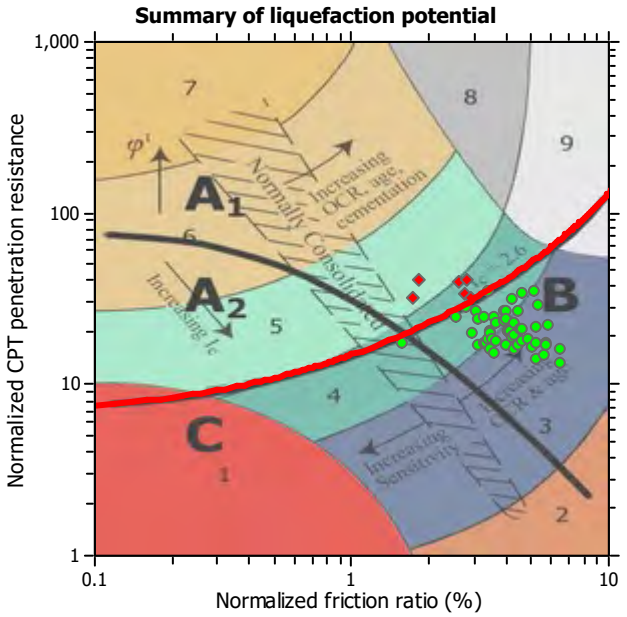
CPT file : SP017

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

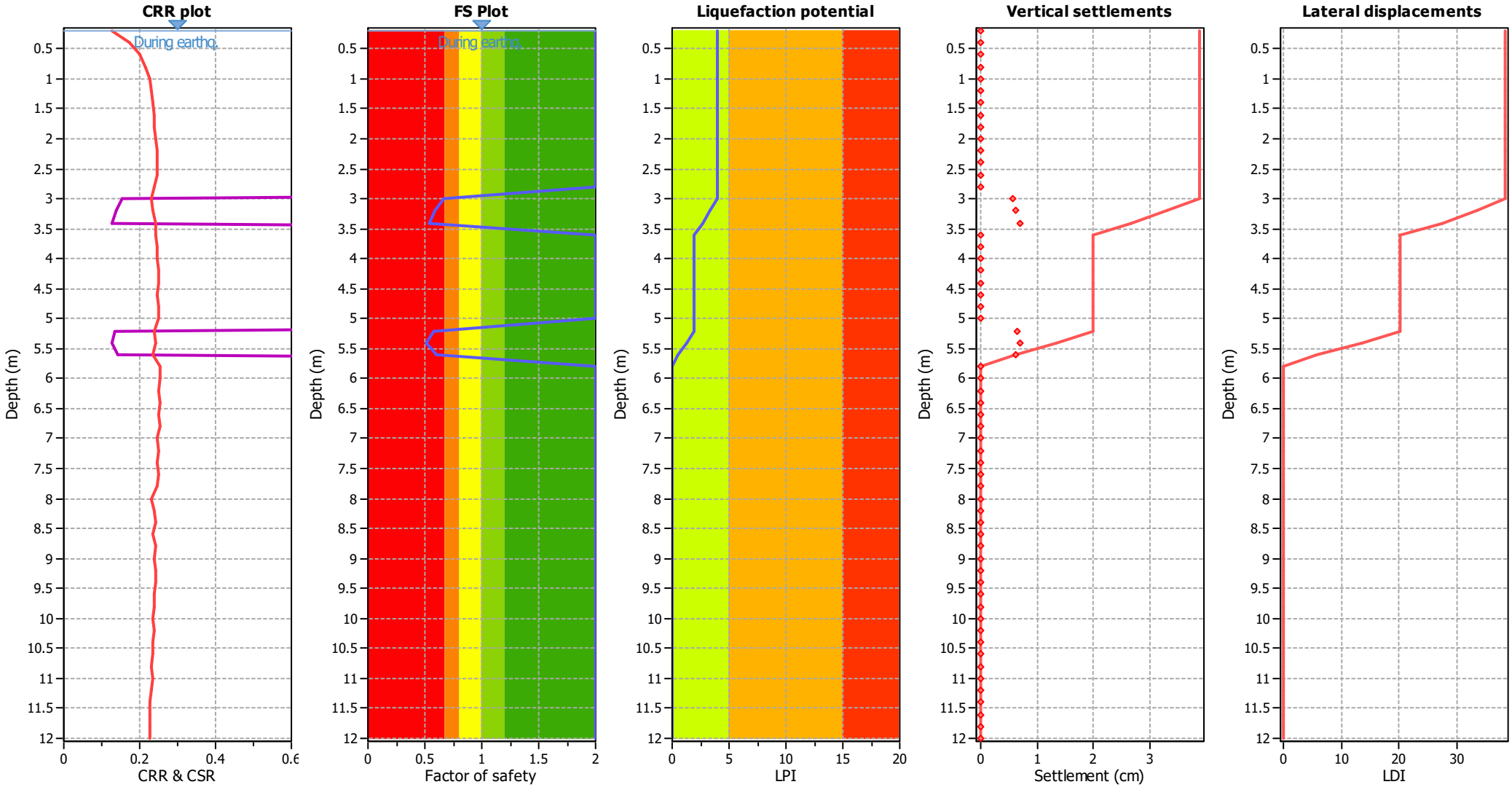






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	0.66	0.34	0.78	0.20	0.57	3.20	0.59	0.41	0.62	0.20	0.68
3.40	0.53	0.47	0.52	0.20	0.77	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	0.57	0.43	0.58	0.20	0.63
5.40	0.52	0.48	0.50	0.20	0.70	5.60	0.60	0.40	0.64	0.20	0.57
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.94

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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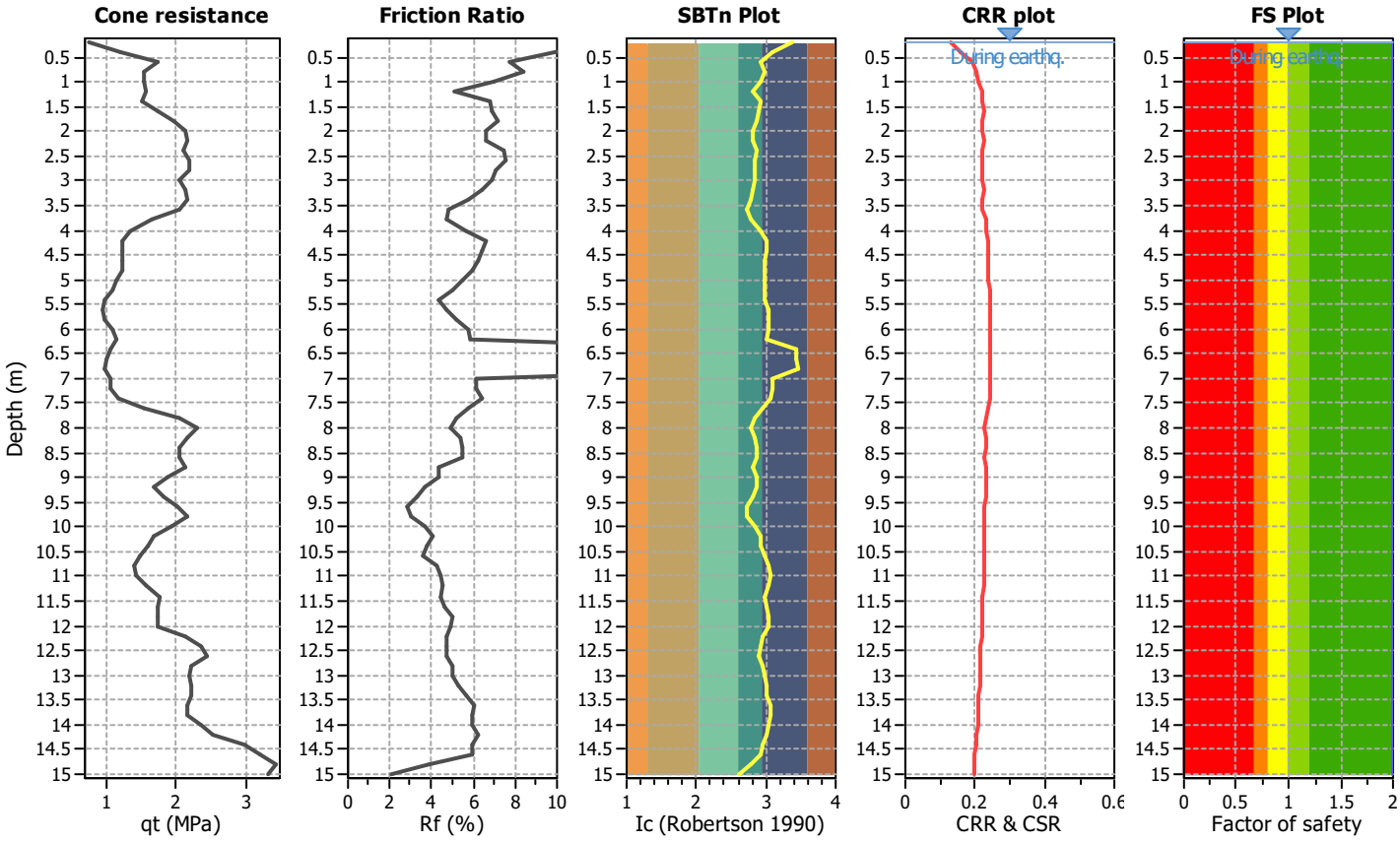
LIQUEFACTION ANALYSIS REPORT

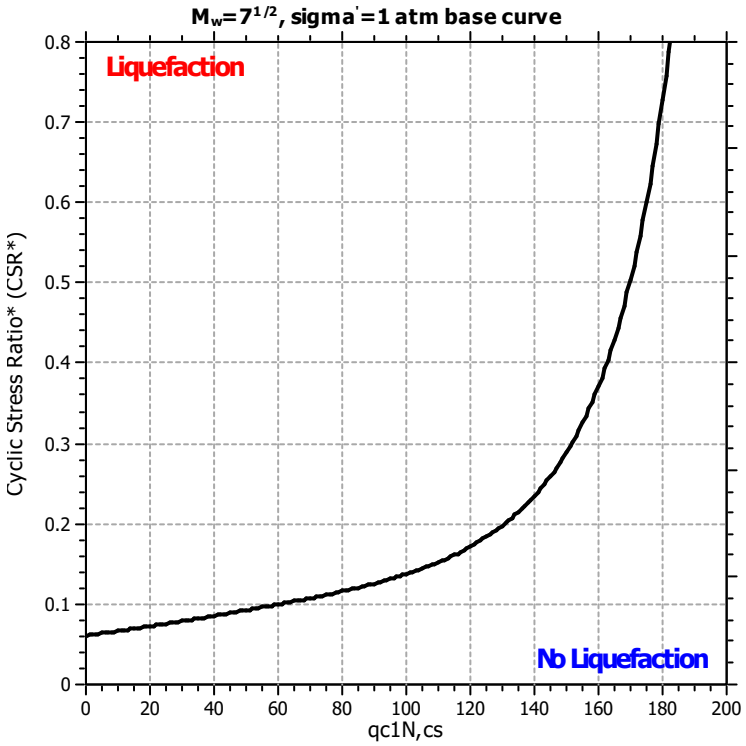
Project title : **Location :**

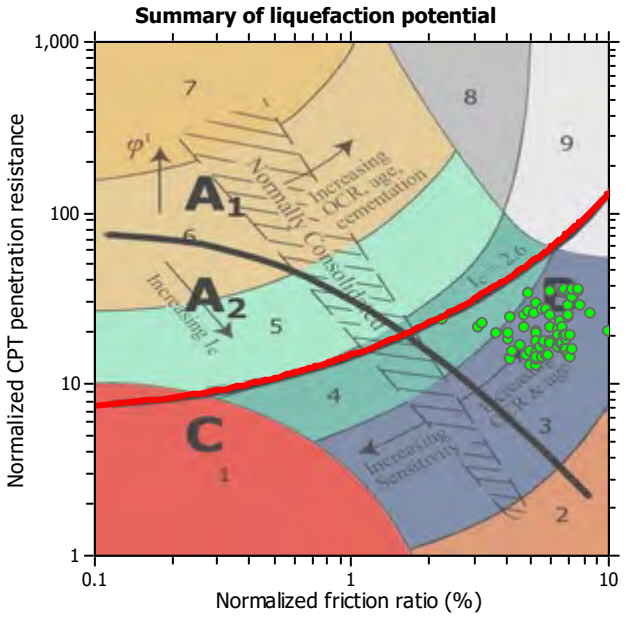
CPT file : SP018

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

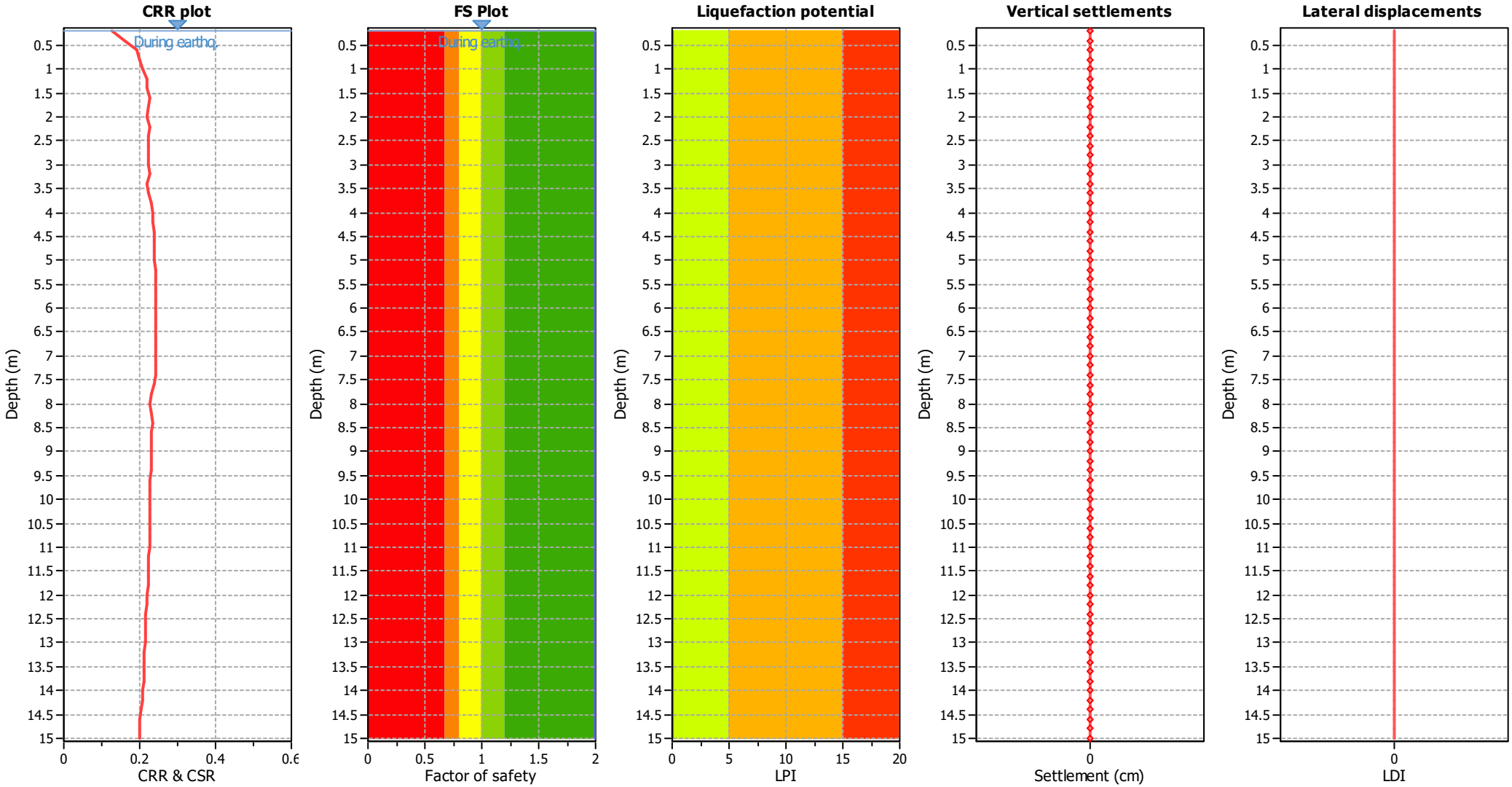






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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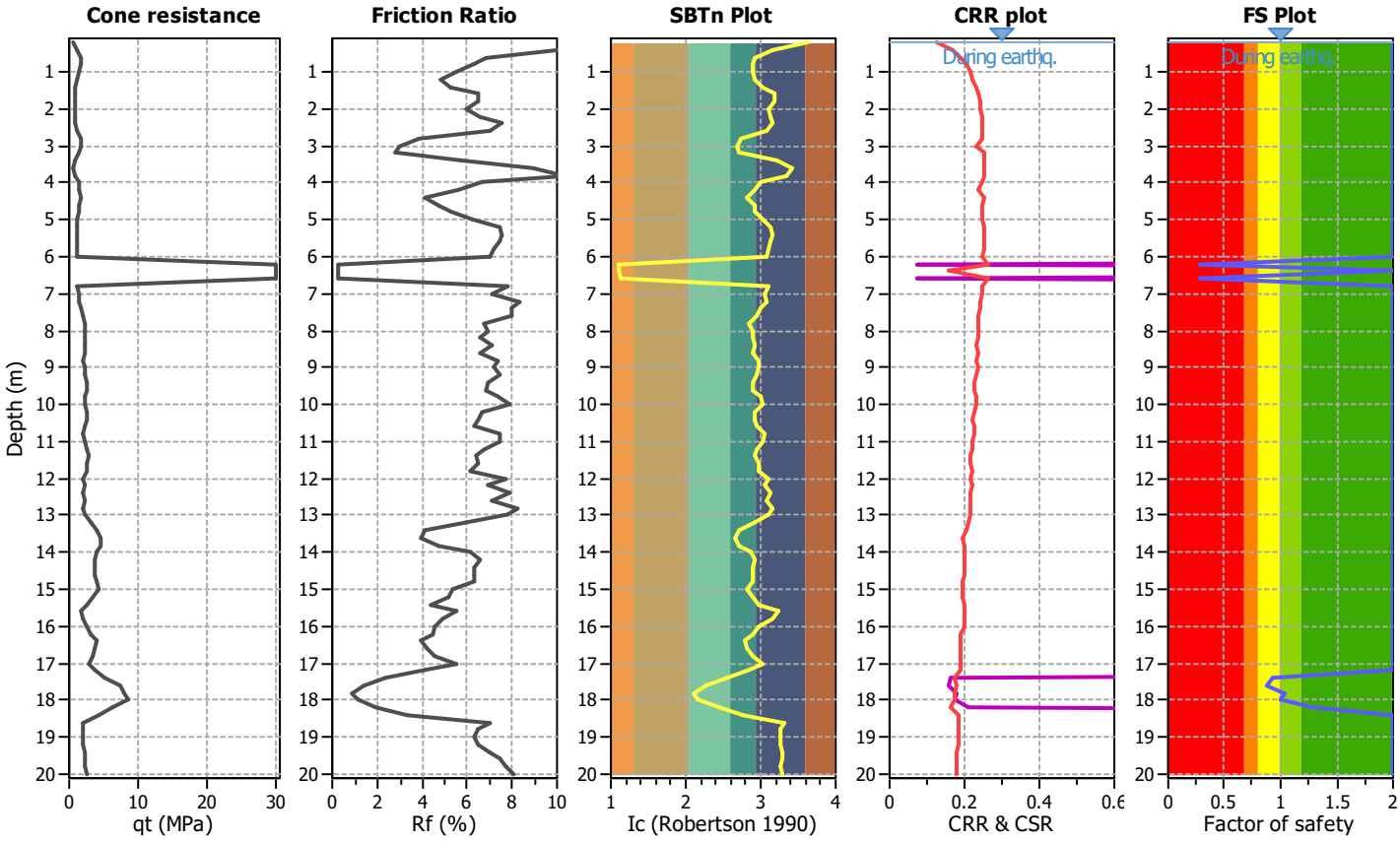
LIQUEFACTION ANALYSIS REPORT

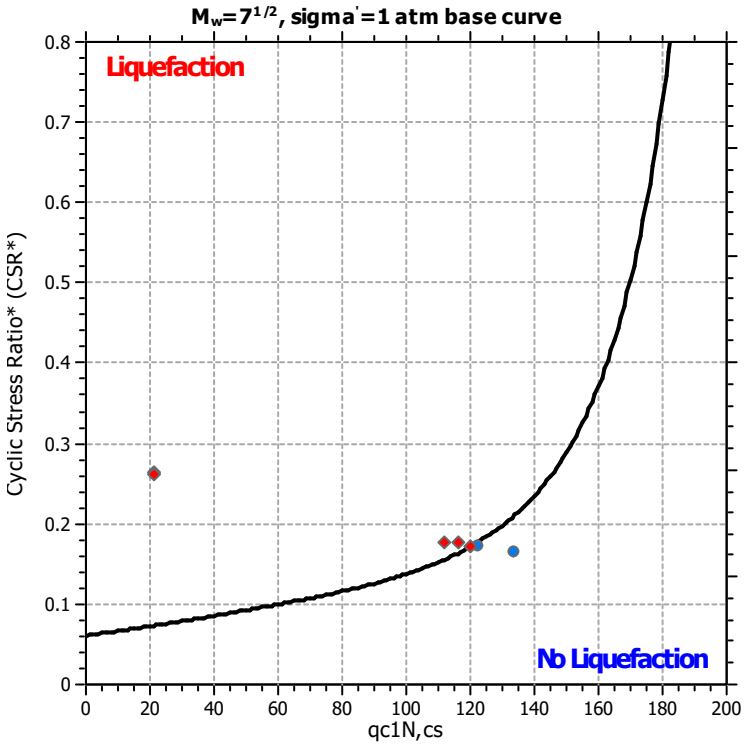
Project title : **Location :**

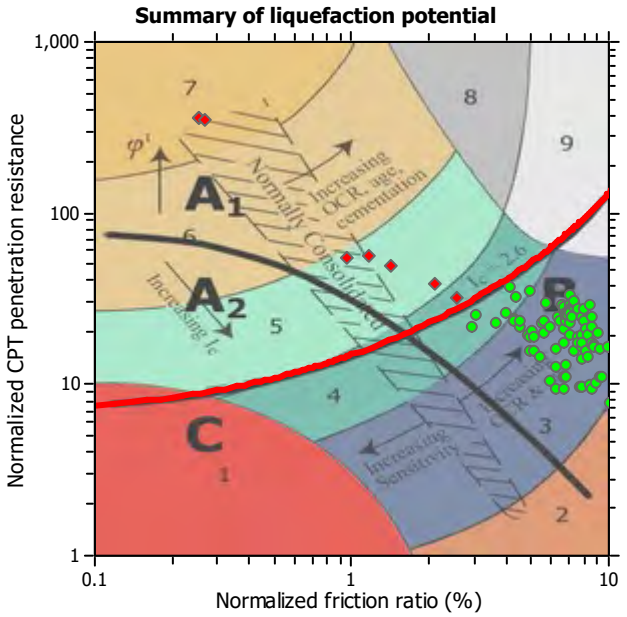
CPT file : SP021

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

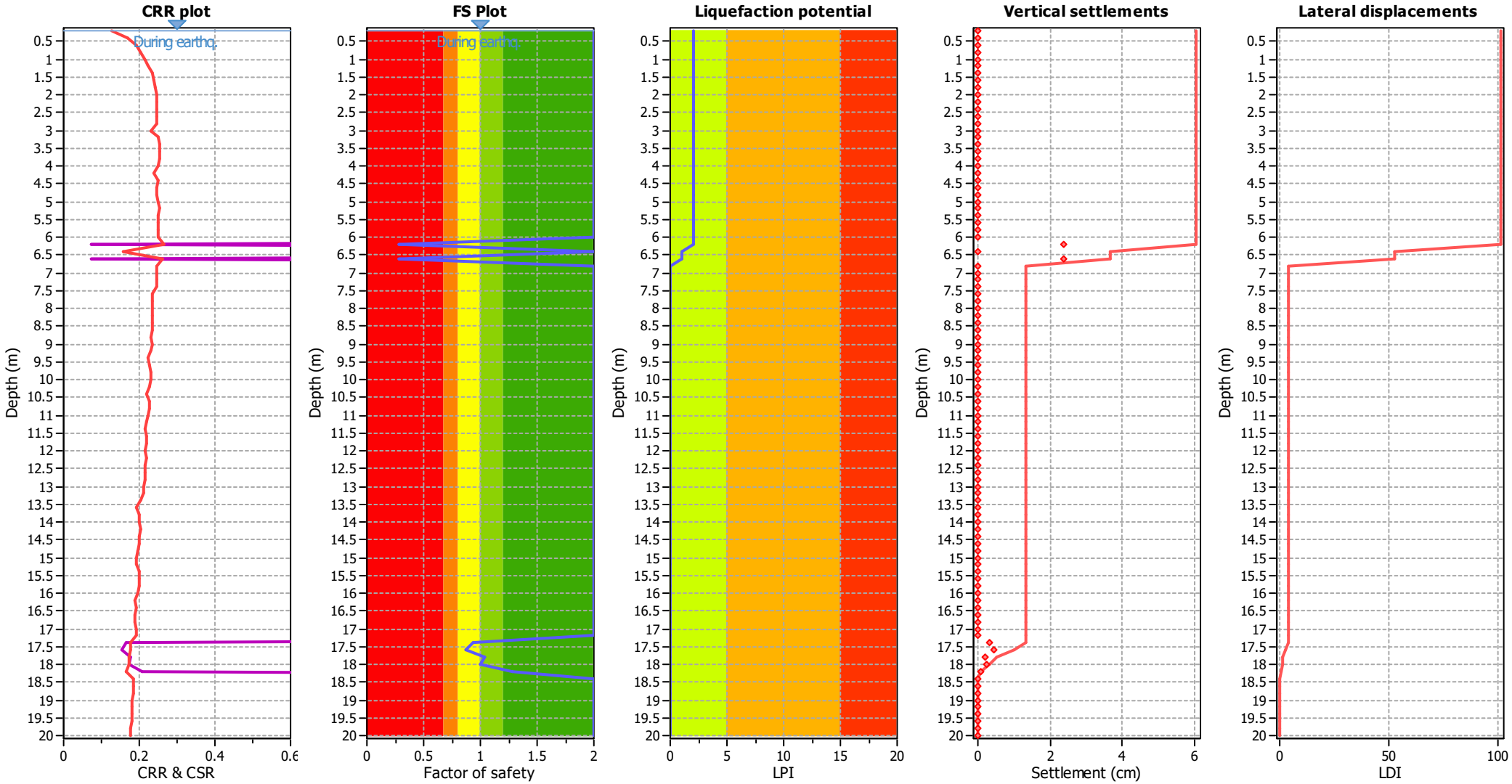






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	0.28	0.72	0.31	0.20	1.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	0.28	0.72	0.31	0.20	0.97	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	0.93	0.07	15.51	0.20	0.02	17.60	0.88	0.12	3.92	0.20	0.03
17.80	1.04	0.00	0.00	0.20	0.00	18.00	1.00	0.00	799780396	0.20	0.00
18.20	1.28	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.01

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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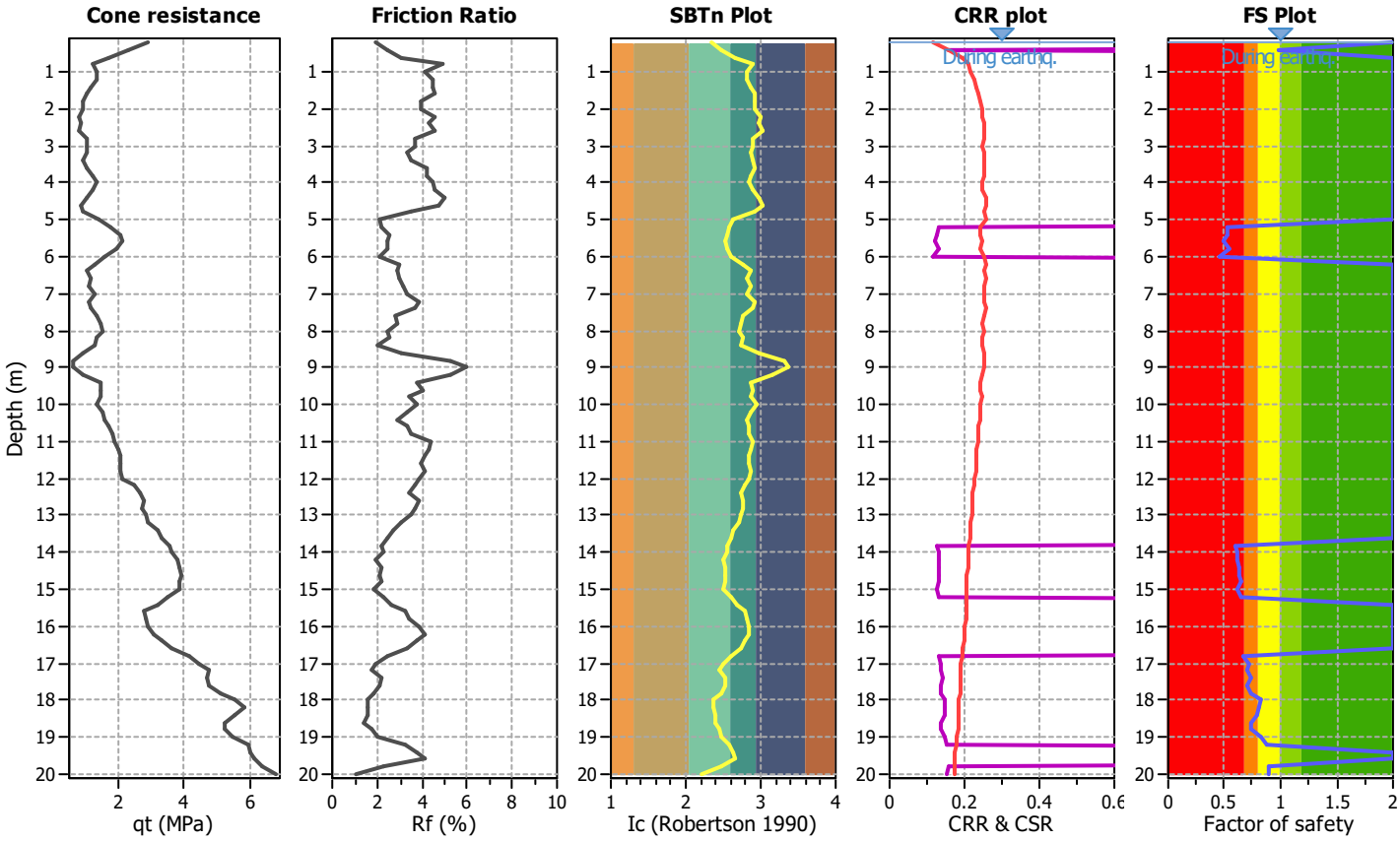
LIQUEFACTION ANALYSIS REPORT

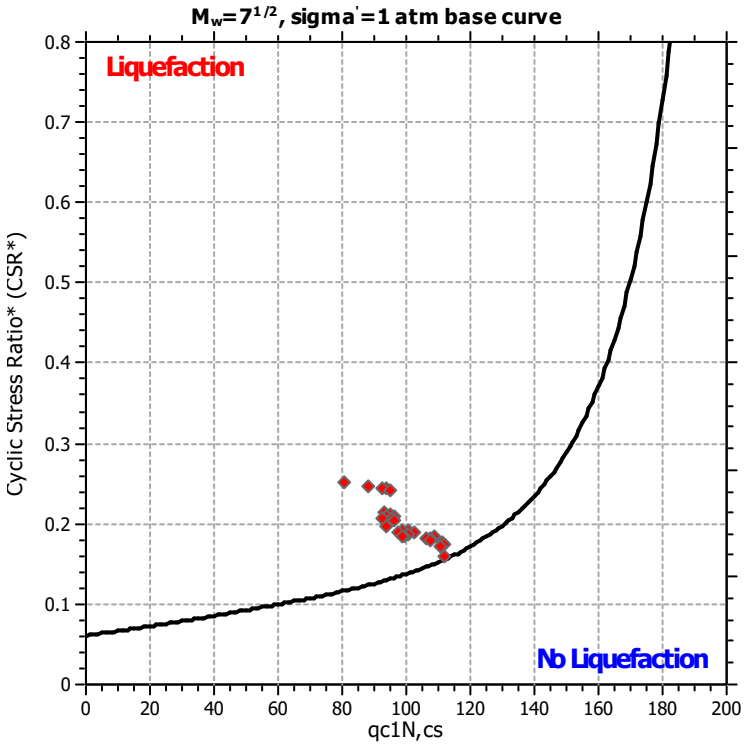
Project title : **Location :**

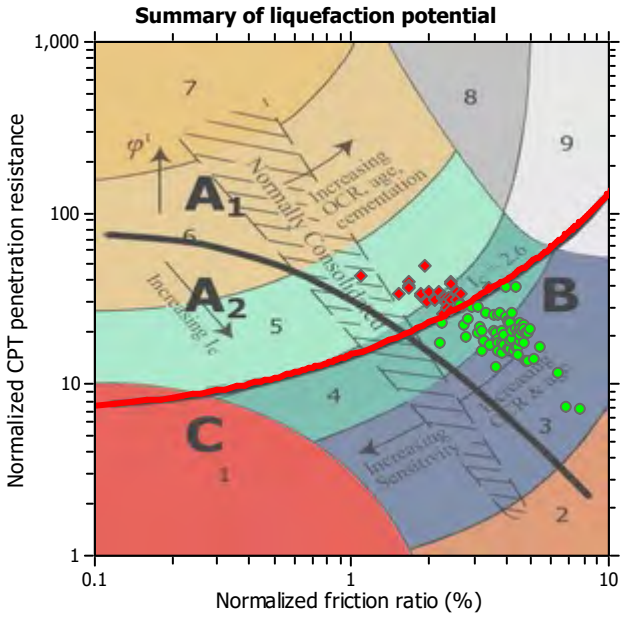
CPT file : SP025

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

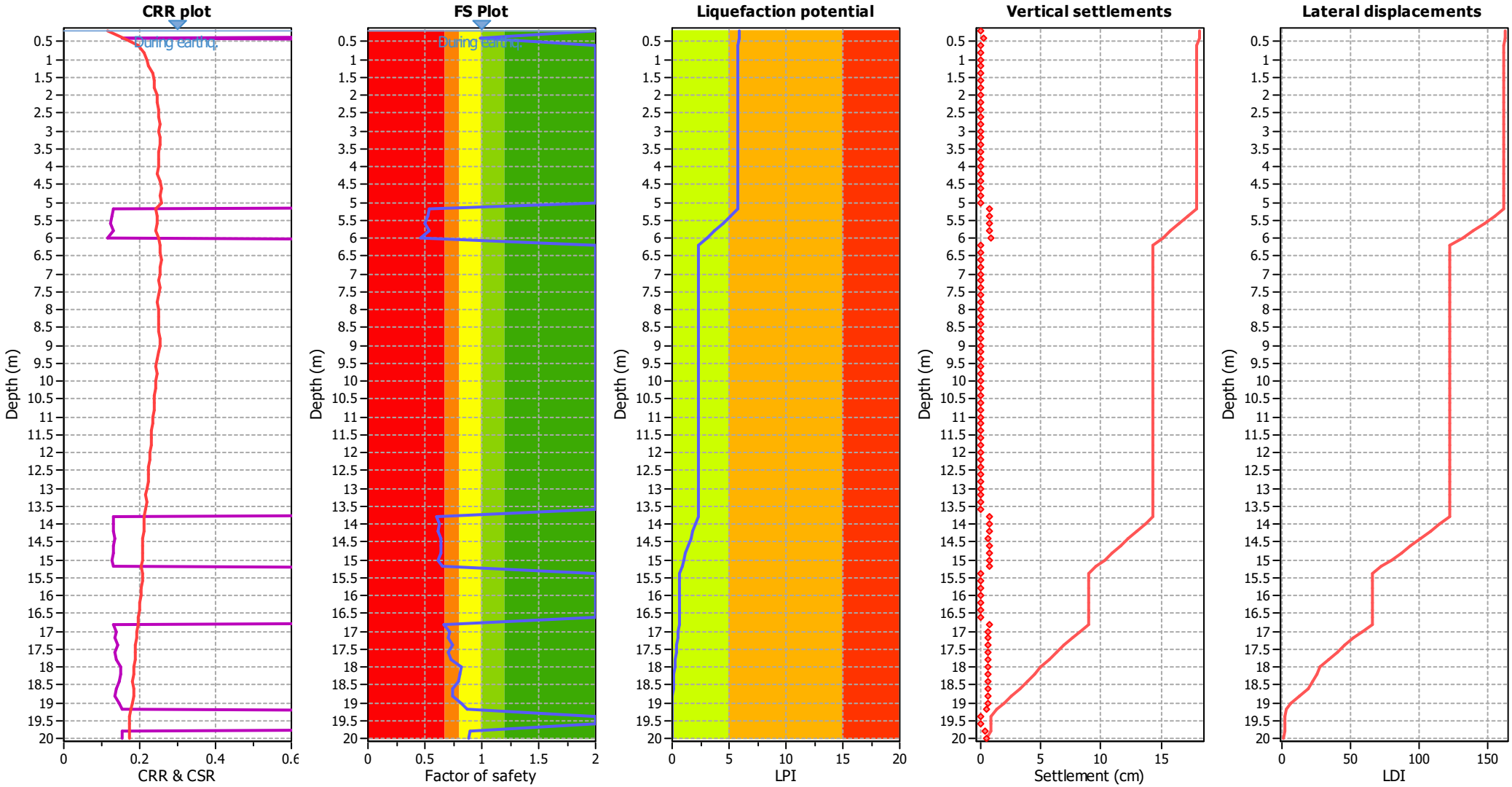






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	0.98	0.00	0.00	0.20	0.04
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	0.53	0.47	0.52	0.20	0.69
5.40	0.53	0.47	0.51	0.20	0.69	5.60	0.50	0.50	0.48	0.20	0.72
5.80	0.54	0.46	0.53	0.20	0.65	6.00	0.46	0.54	0.44	0.20	0.75
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	0.60	0.00	0.00	0.20	0.25	14.00	0.62	0.00	0.00	0.20	0.23
14.20	0.62	0.00	0.00	0.20	0.22	14.40	0.64	0.00	0.00	0.20	0.20
14.60	0.64	0.00	0.00	0.20	0.20	14.80	0.64	0.00	0.00	0.20	0.19
15.00	0.62	0.00	0.00	0.20	0.19	15.20	0.65	0.00	0.00	0.20	0.17
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	0.66	0.00	0.00	0.20	0.11
17.00	0.72	0.00	0.00	0.20	0.08	17.20	0.71	0.00	0.00	0.20	0.08
17.40	0.74	0.00	0.00	0.20	0.07	17.60	0.71	0.00	0.00	0.20	0.07
17.80	0.73	0.00	0.00	0.20	0.06	18.00	0.82	0.00	0.00	0.20	0.04
18.20	0.81	0.00	0.00	0.20	0.03	18.40	0.80	0.00	0.00	0.20	0.03
18.60	0.74	0.00	0.00	0.20	0.04	18.80	0.74	0.00	0.00	0.20	0.03
19.00	0.83	0.00	0.00	0.20	0.02	19.20	0.87	0.00	0.00	0.20	0.01

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	0.90	0.00	0.00	0.20	0.00	20.00	0.89	0.00	0.00	0.20	0.00

Overall liquefaction potential: 5.85

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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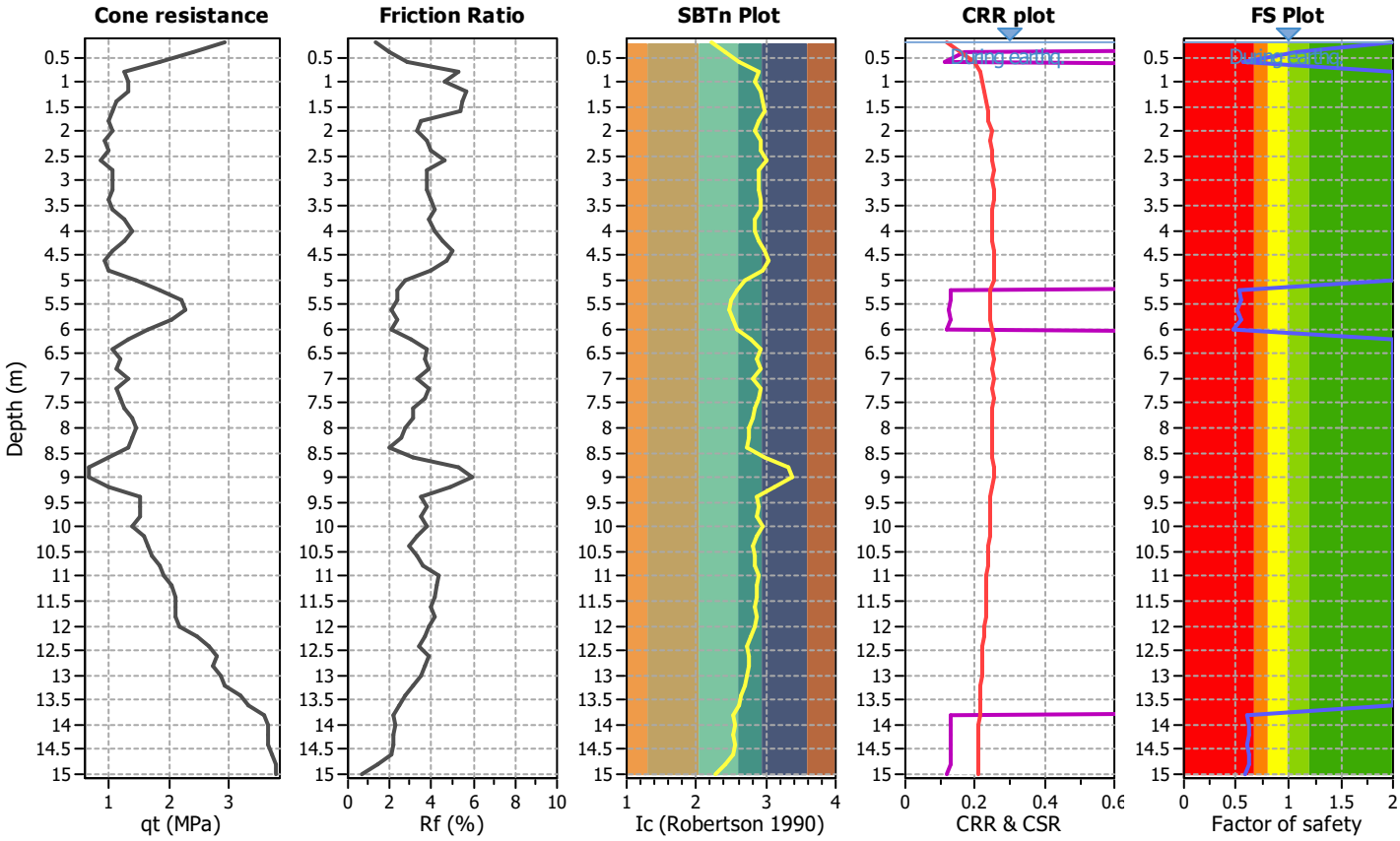
LIQUEFACTION ANALYSIS REPORT

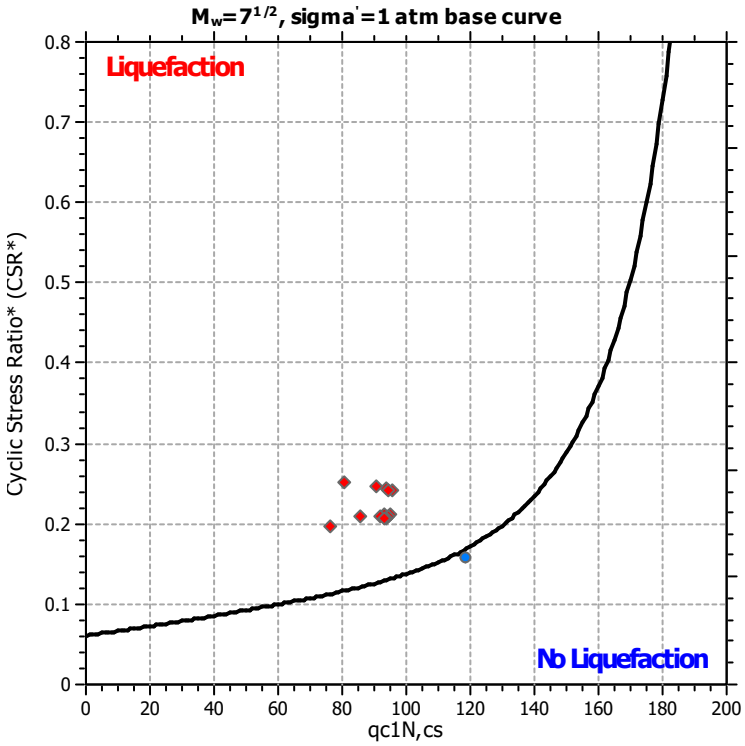
Project title : **Location :**

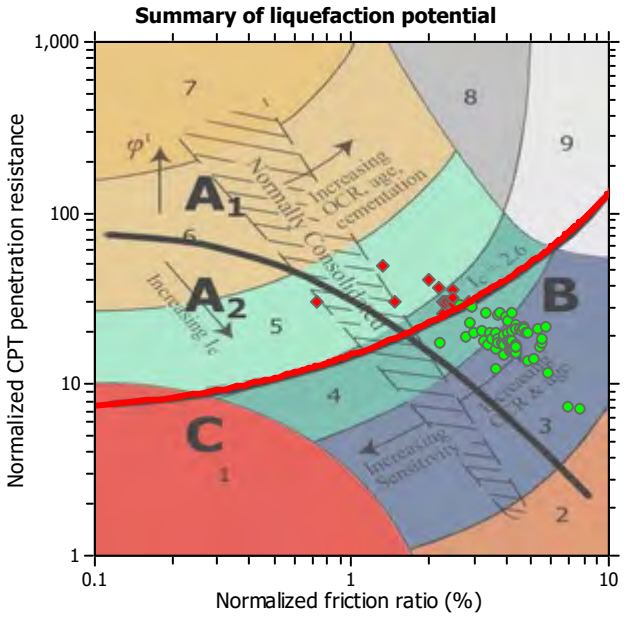
CPT file : SP026

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

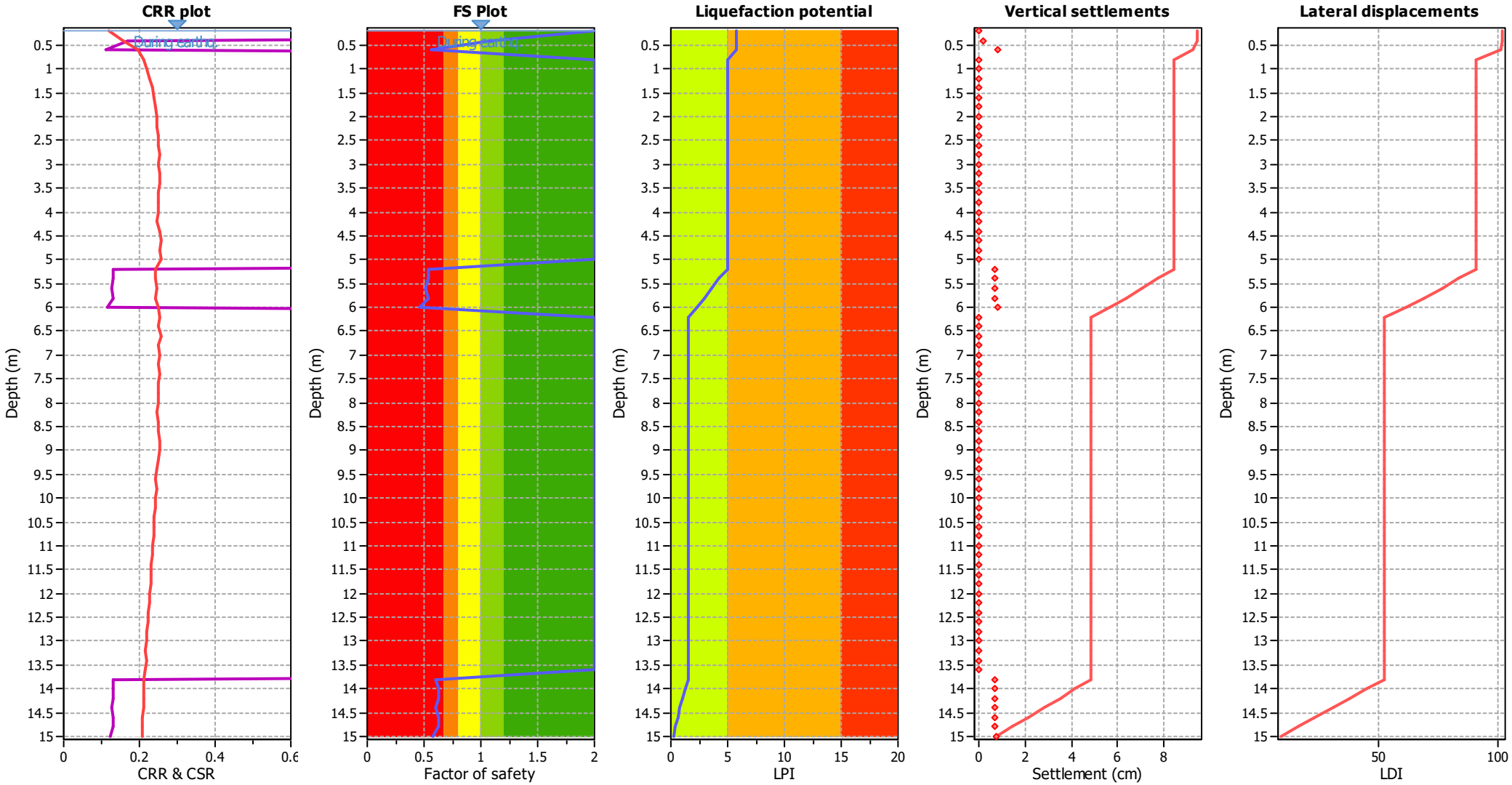






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	1.08	0.00	0.00	0.20	0.00
0.60	0.57	0.00	0.00	0.20	0.84	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	0.53	0.47	0.52	0.20	0.69
5.40	0.54	0.46	0.53	0.20	0.67	5.60	0.51	0.49	0.49	0.20	0.70
5.80	0.54	0.46	0.53	0.20	0.66	6.00	0.46	0.54	0.44	0.20	0.75
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	0.60	0.00	0.00	0.20	0.24	14.00	0.62	0.00	0.00	0.20	0.23
14.20	0.62	0.00	0.00	0.20	0.22	14.40	0.61	0.00	0.00	0.20	0.22
14.60	0.62	0.00	0.00	0.20	0.20	14.80	0.63	0.00	0.00	0.20	0.19
15.00	0.58	0.00	0.00	0.20	0.21						

Overall liquefaction potential: 5.82

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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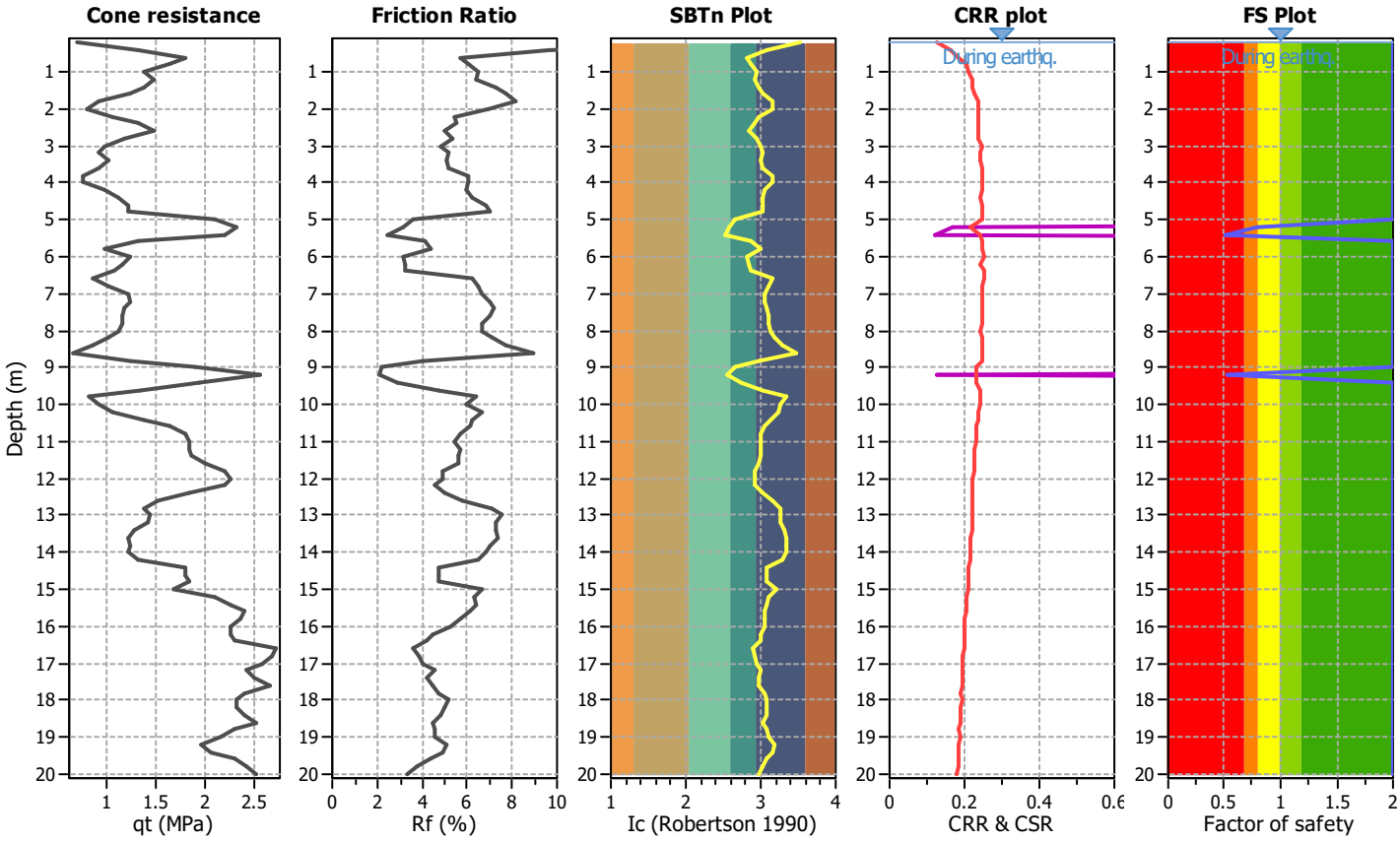
LIQUEFACTION ANALYSIS REPORT

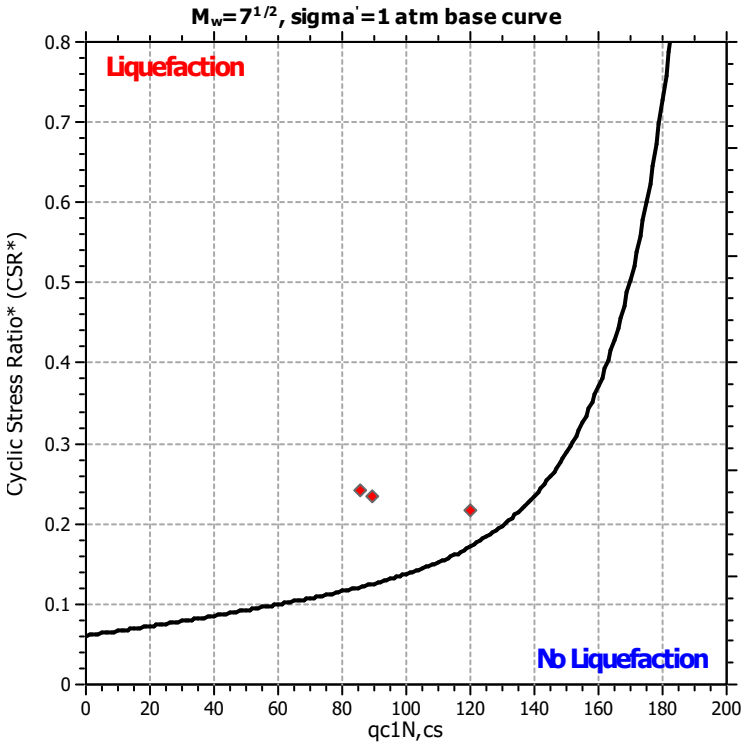
Project title : **Location :**

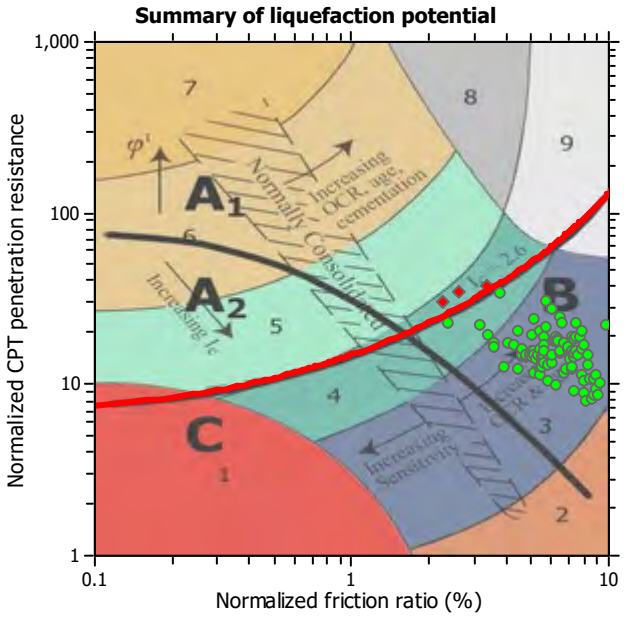
CPT file : SP027

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

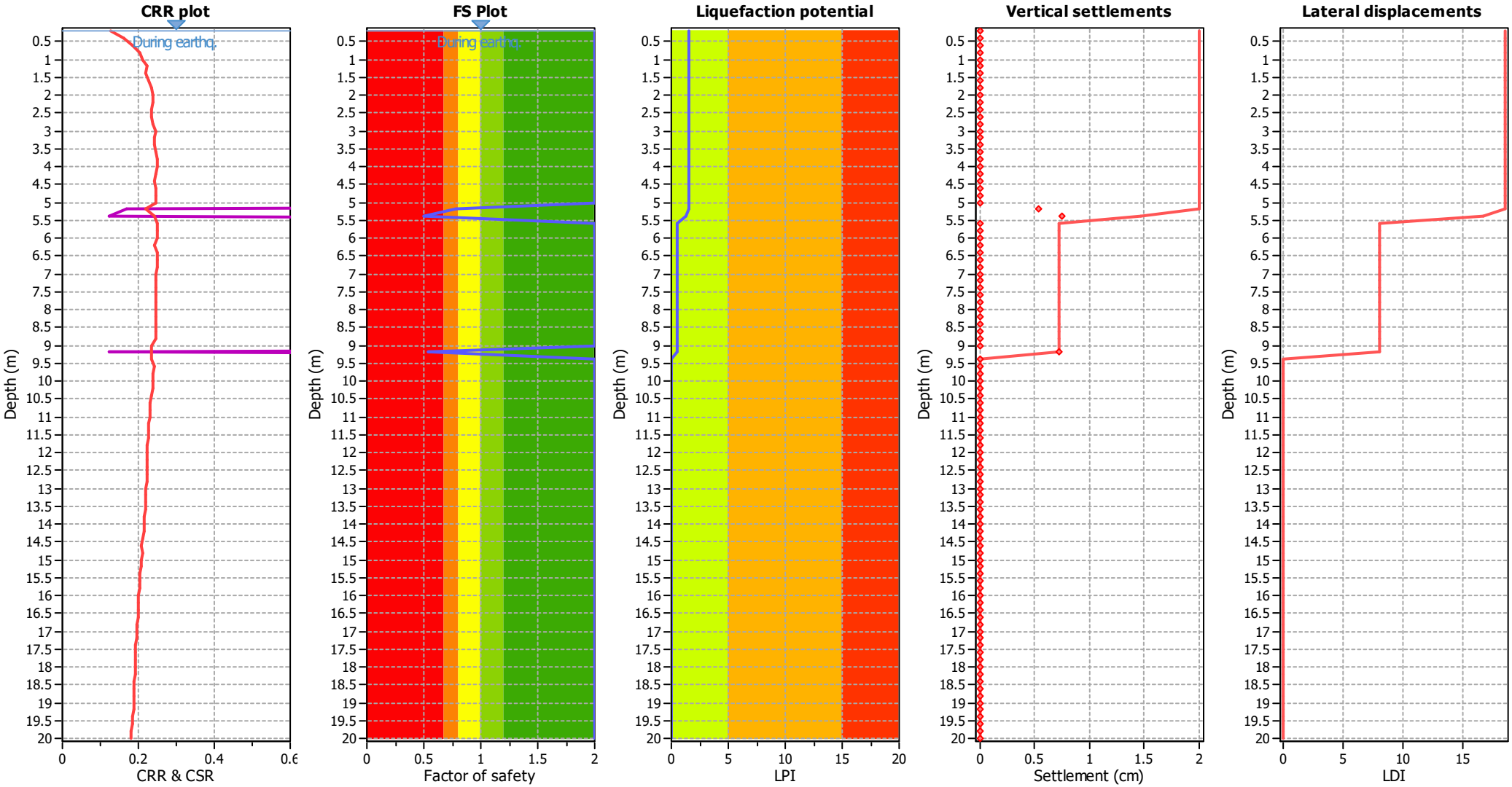






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	0.78	0.22	1.48	0.20	0.32
5.40	0.50	0.50	0.48	0.20	0.73	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	0.53	0.47	0.52	0.20	0.50
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.55

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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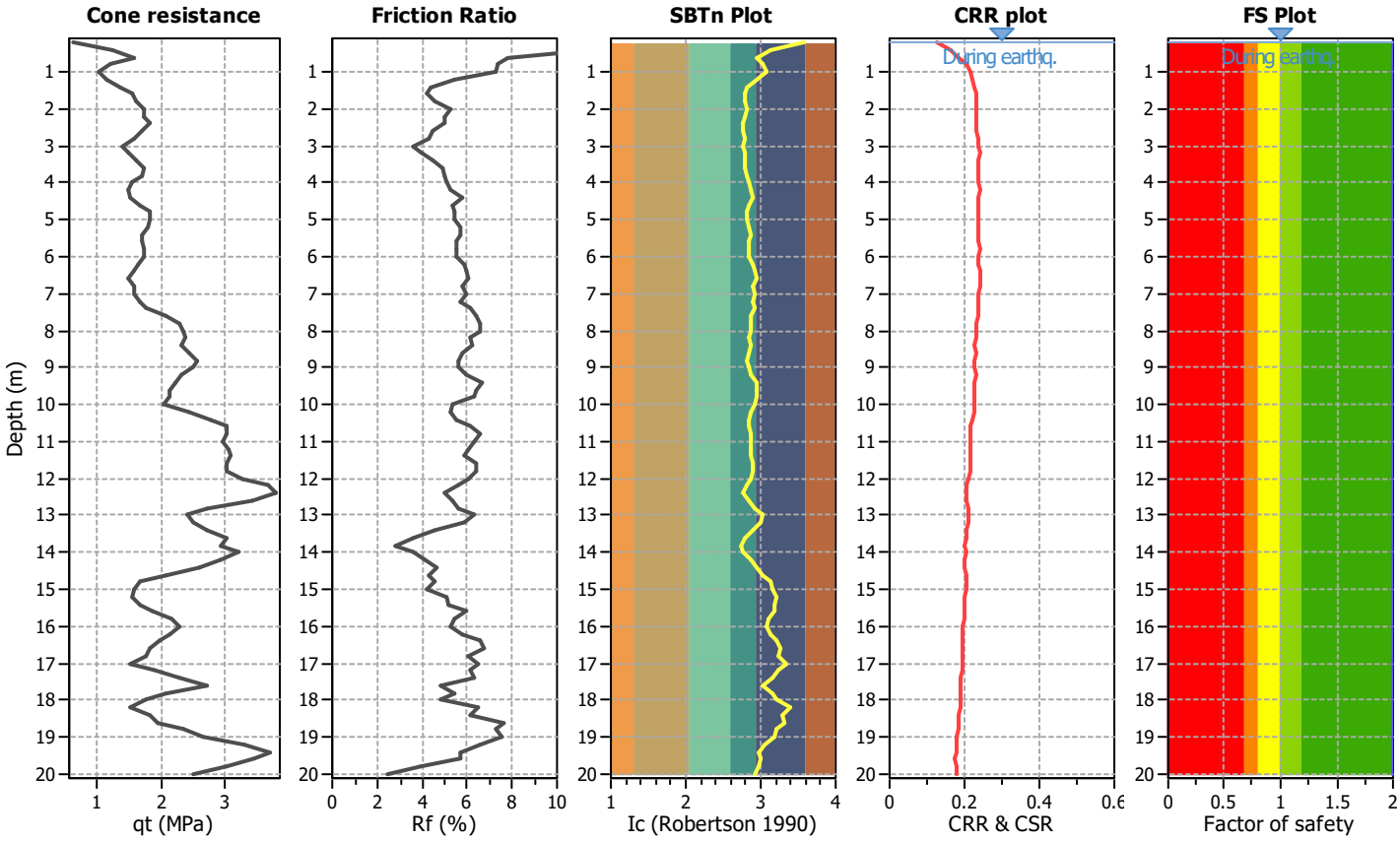
LIQUEFACTION ANALYSIS REPORT

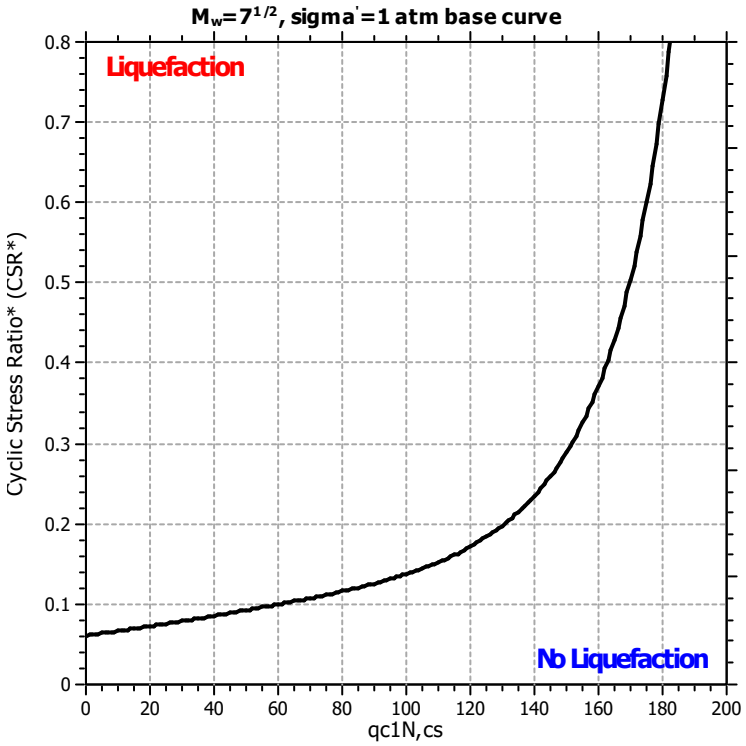
Project title : **Location :**

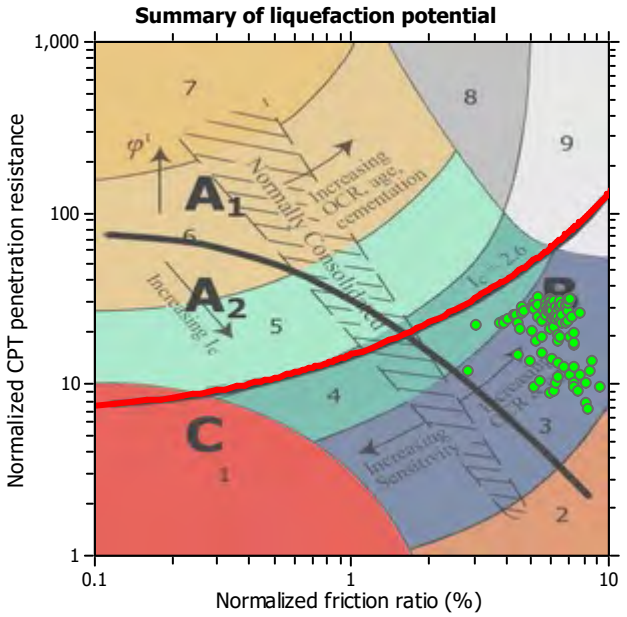
CPT file : SP029

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

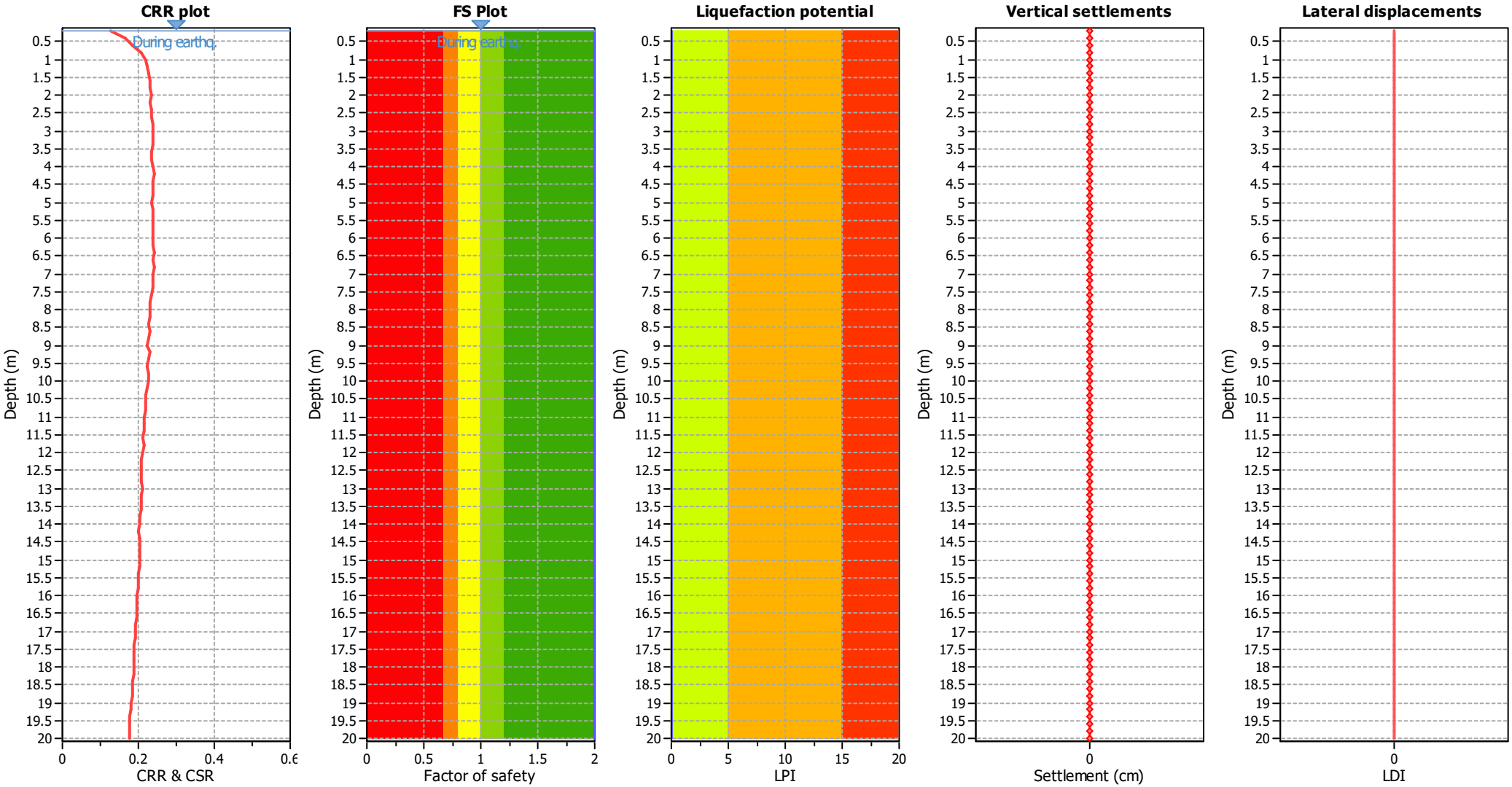






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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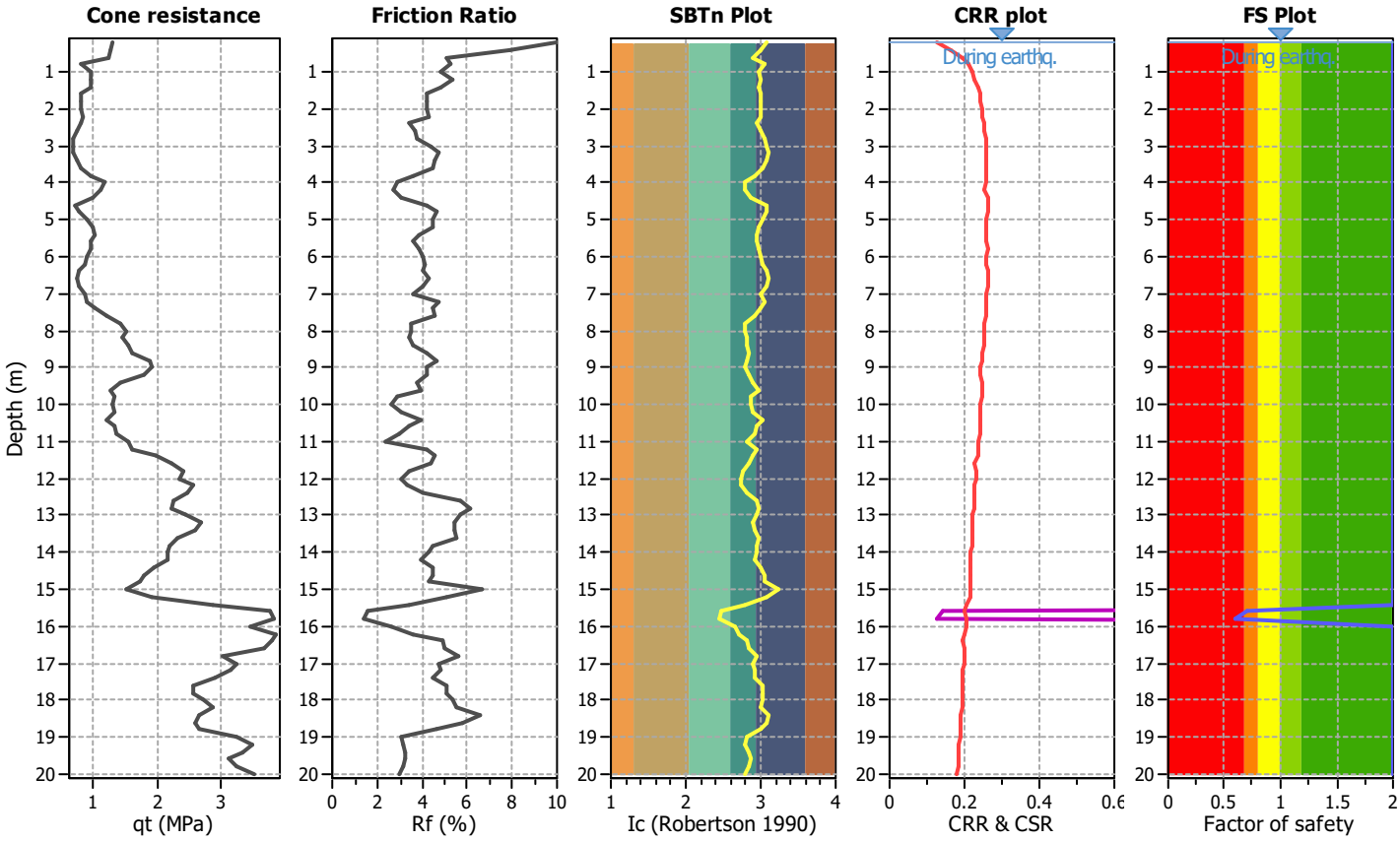
LIQUEFACTION ANALYSIS REPORT

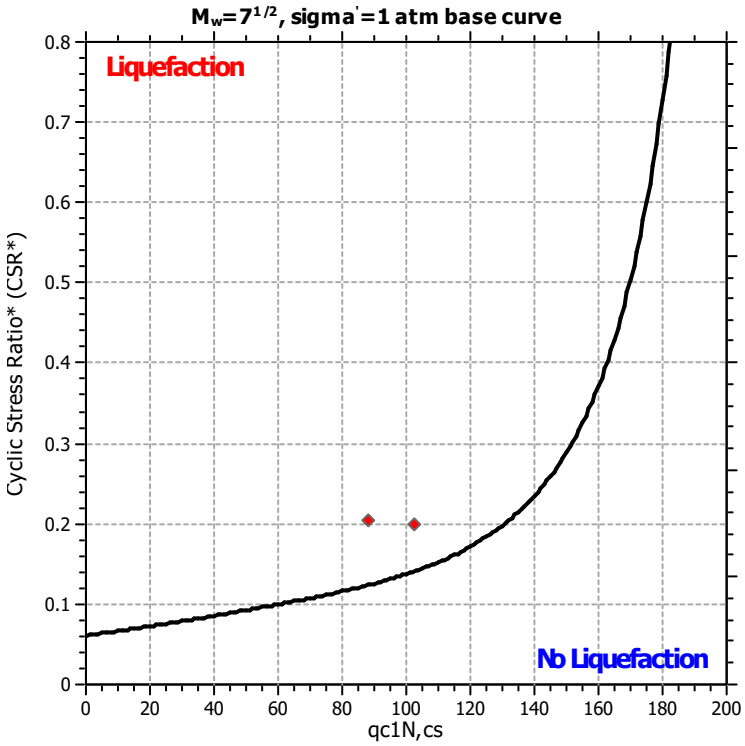
Project title : **Location :**

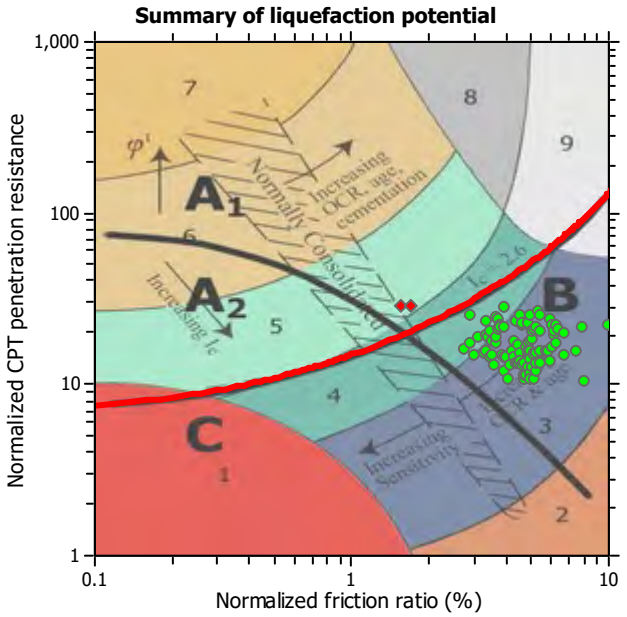
CPT file : SP032

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

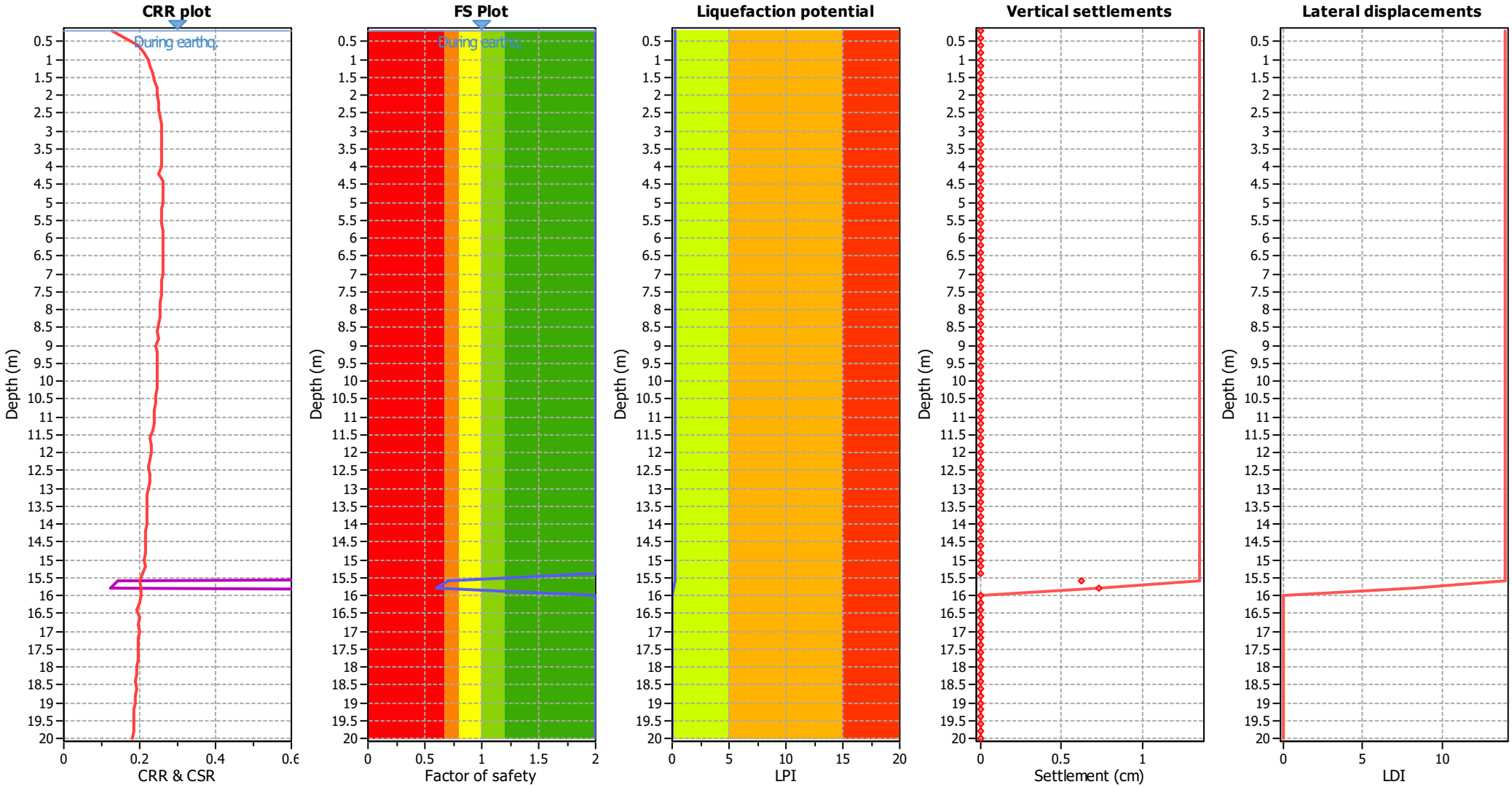






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	0.71	0.29	0.95	0.20	0.13
15.80	0.61	0.39	0.64	0.20	0.17	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.29

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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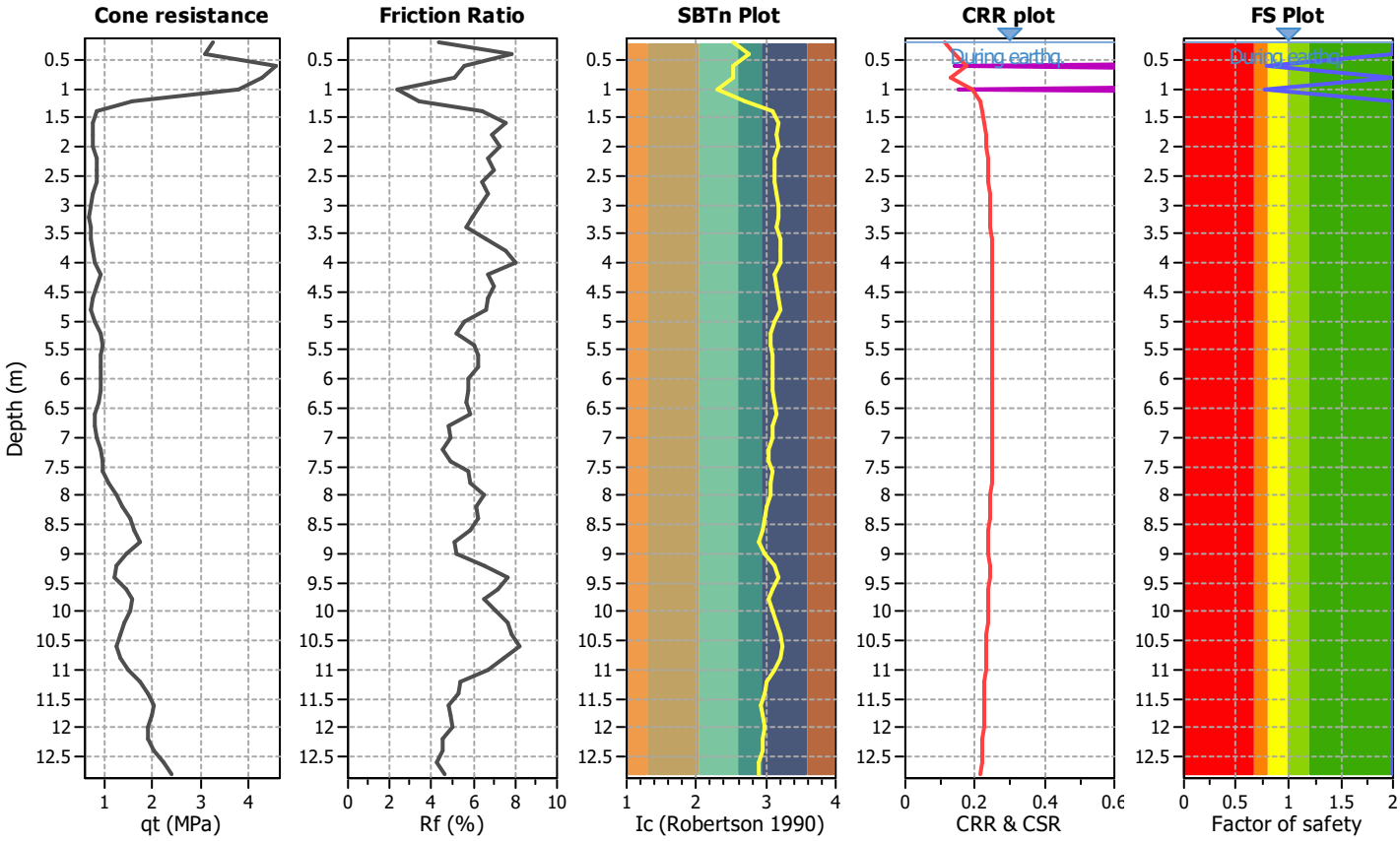
LIQUEFACTION ANALYSIS REPORT

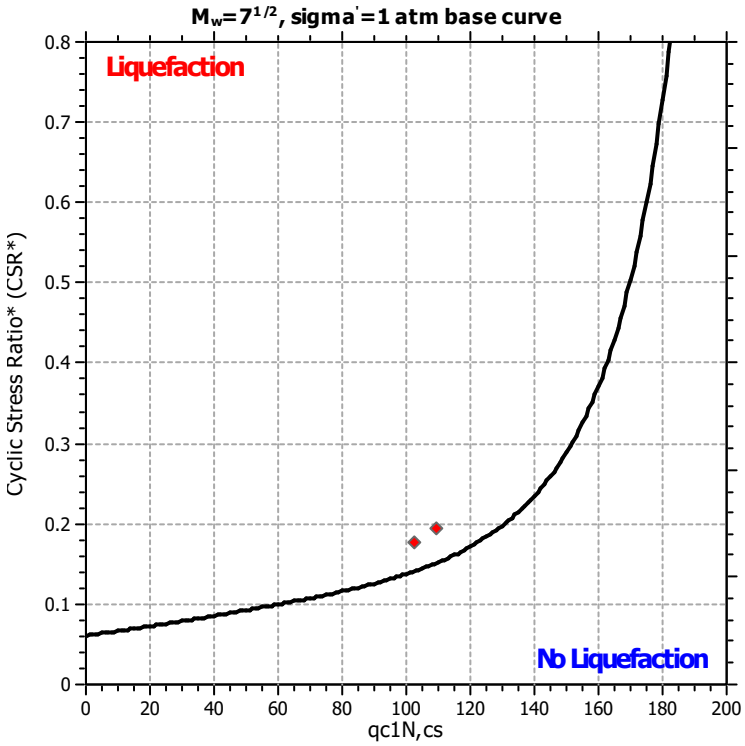
Project title : **Location :**

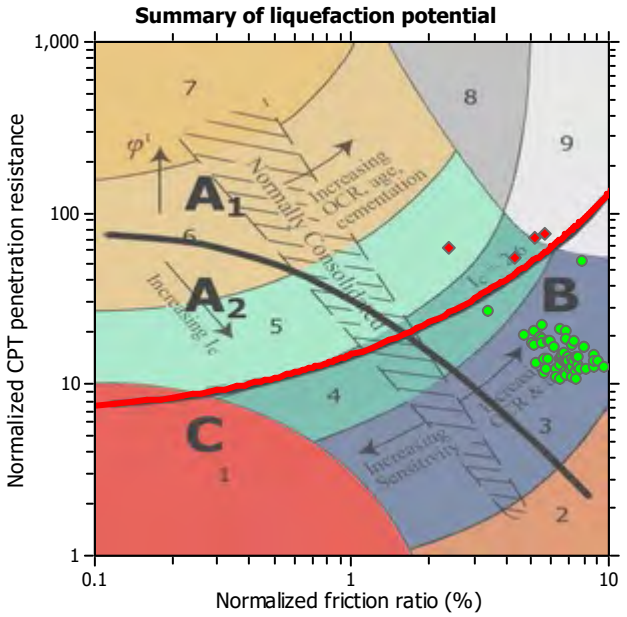
CPT file : SP033

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

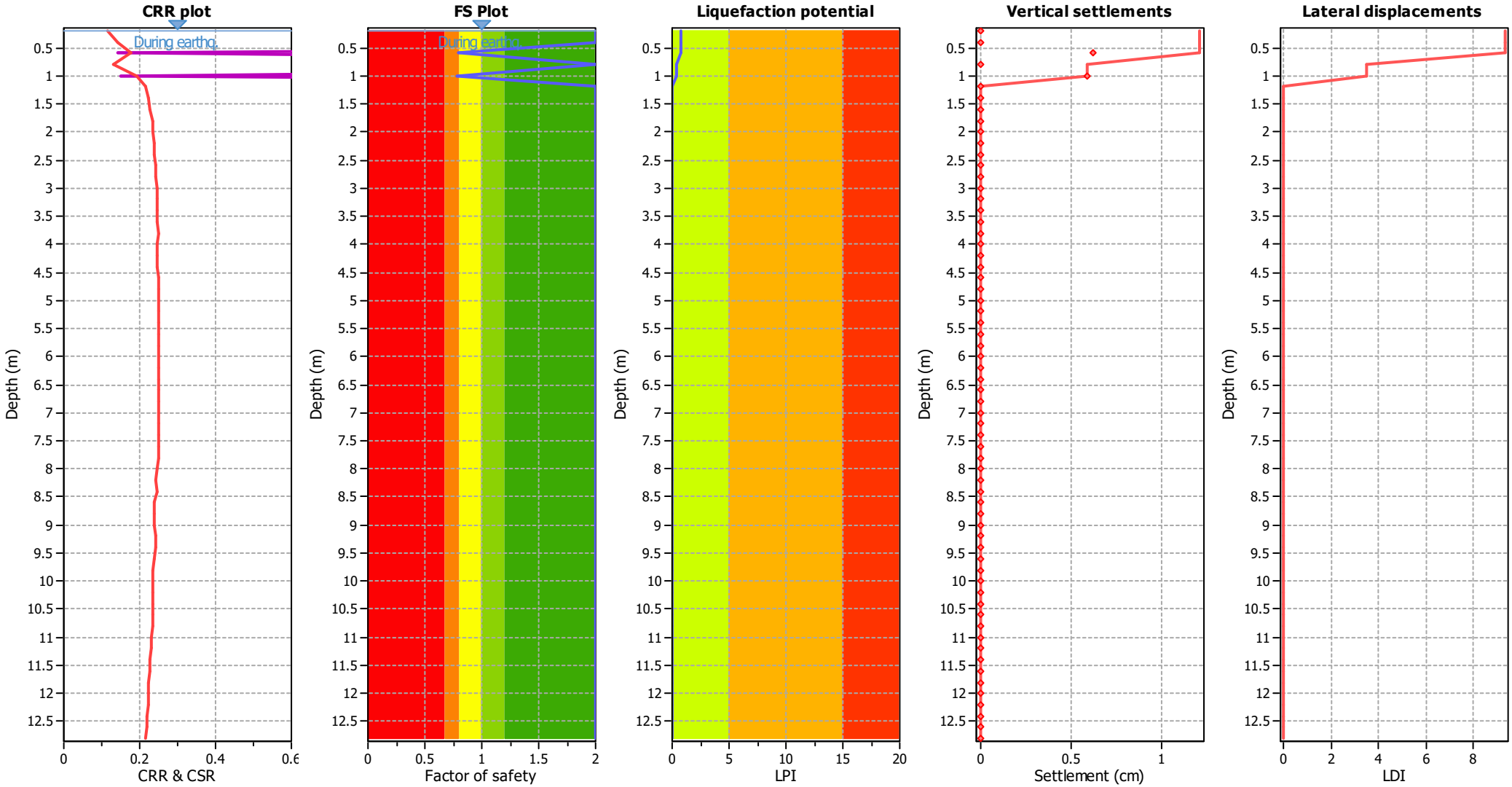






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.79	0.21	1.59	0.20	0.40	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.78	0.22	1.44	0.20	0.42	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.82

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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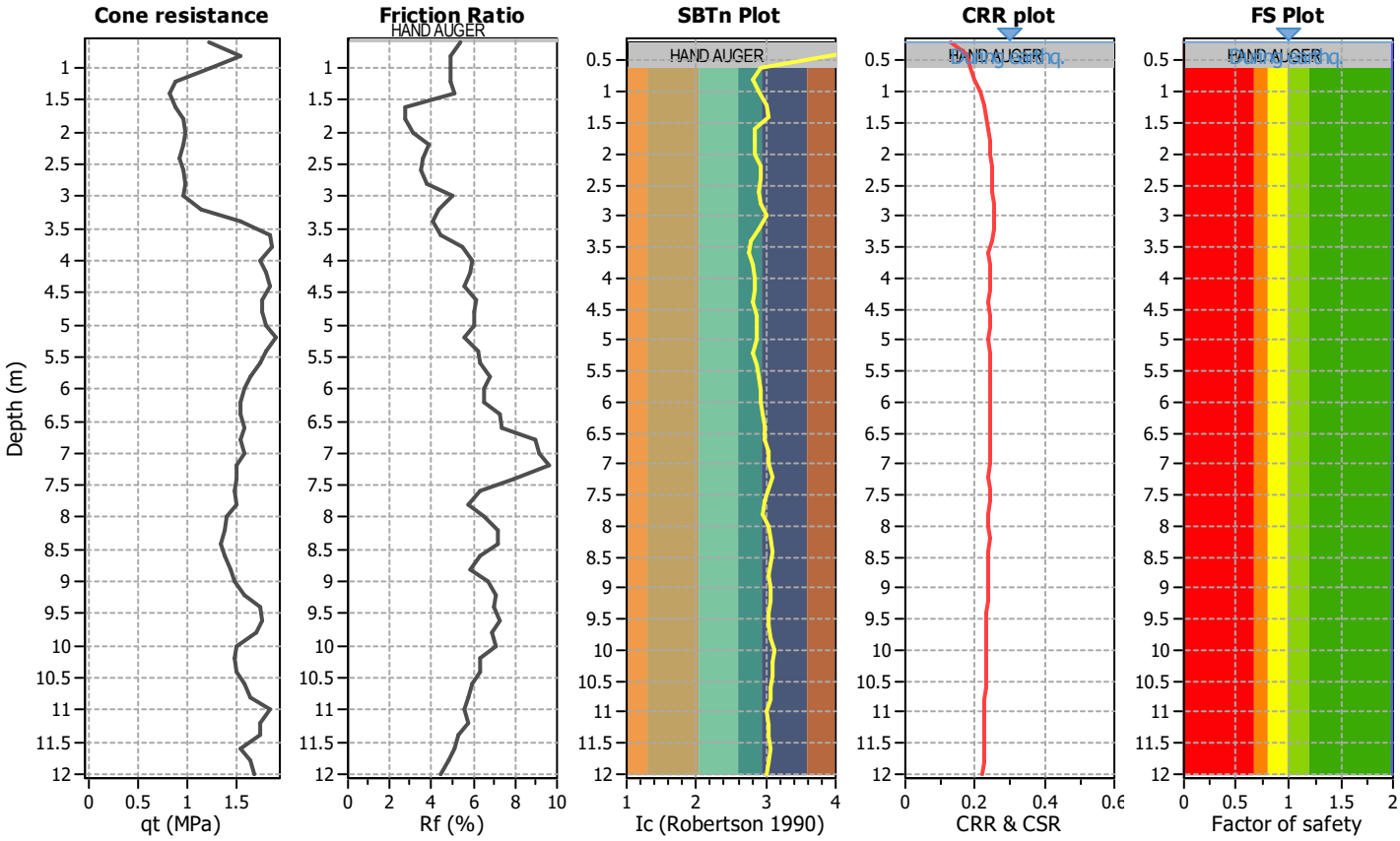
LIQUEFACTION ANALYSIS REPORT

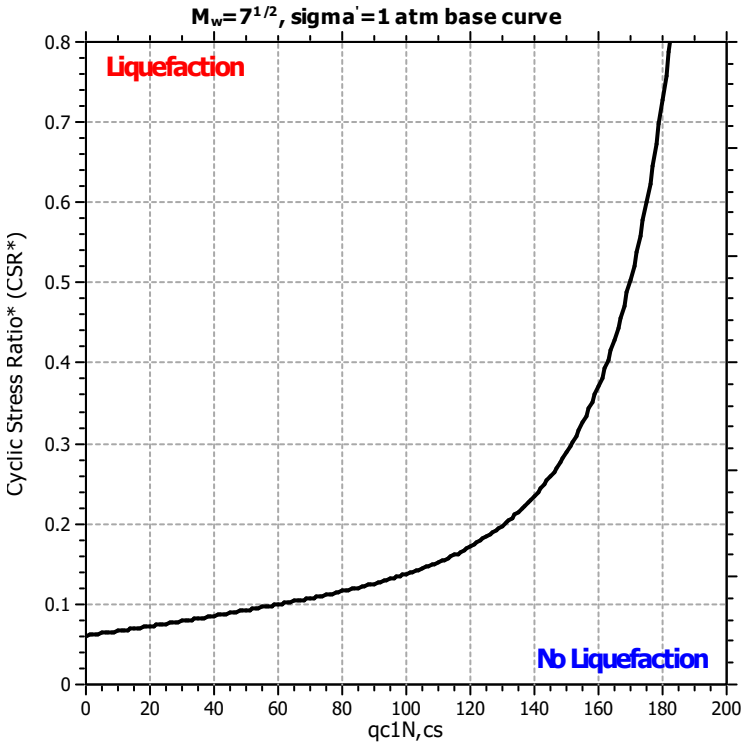
Project title : **Location :**

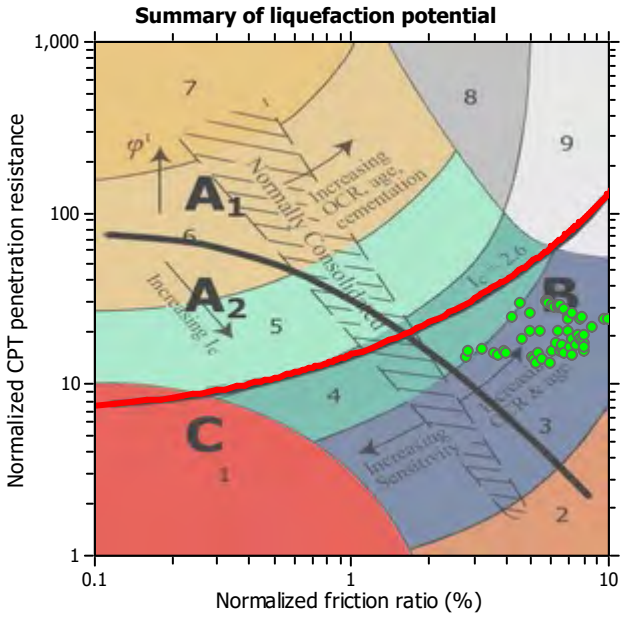
CPT file : SP035

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

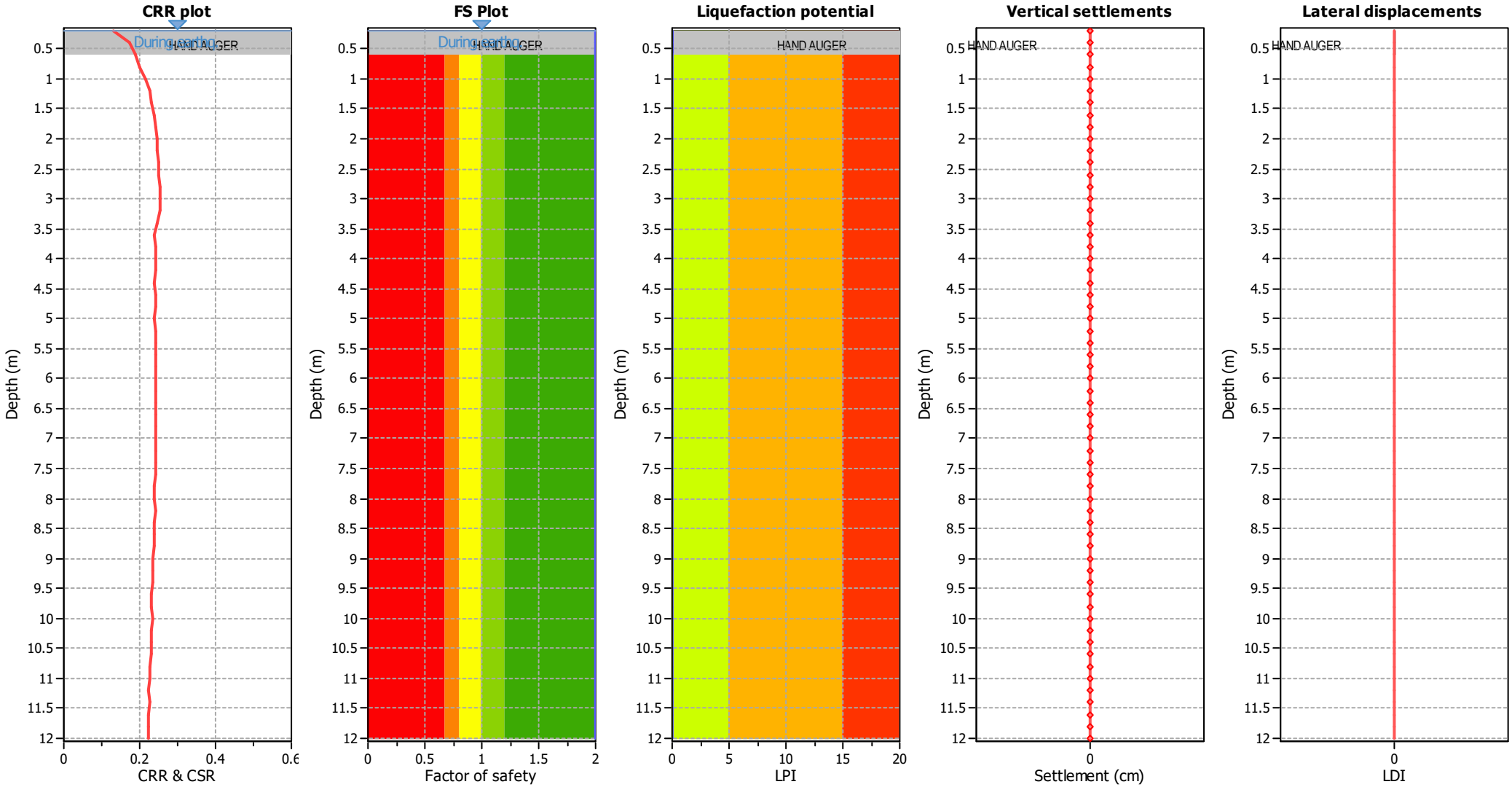






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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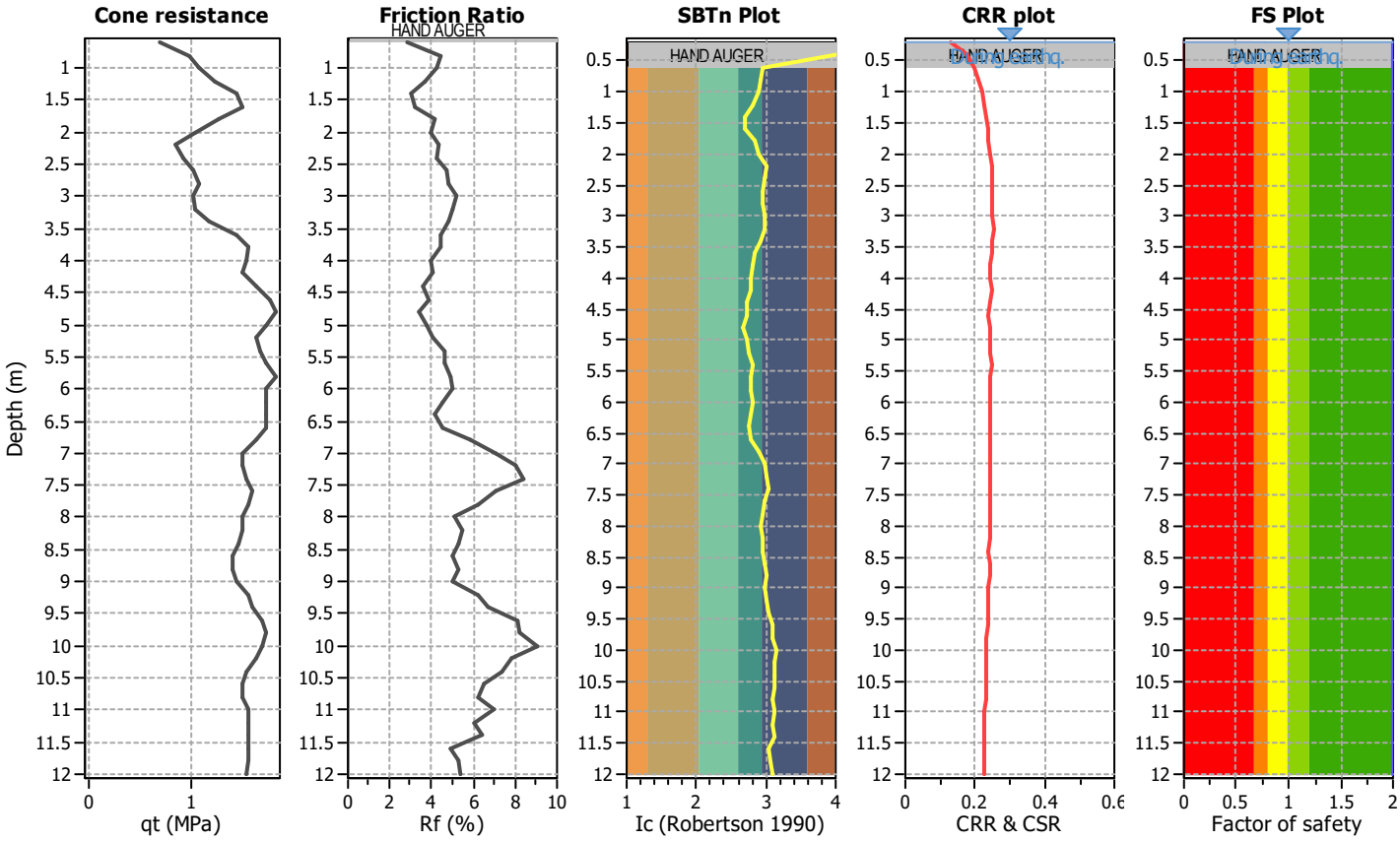
LIQUEFACTION ANALYSIS REPORT

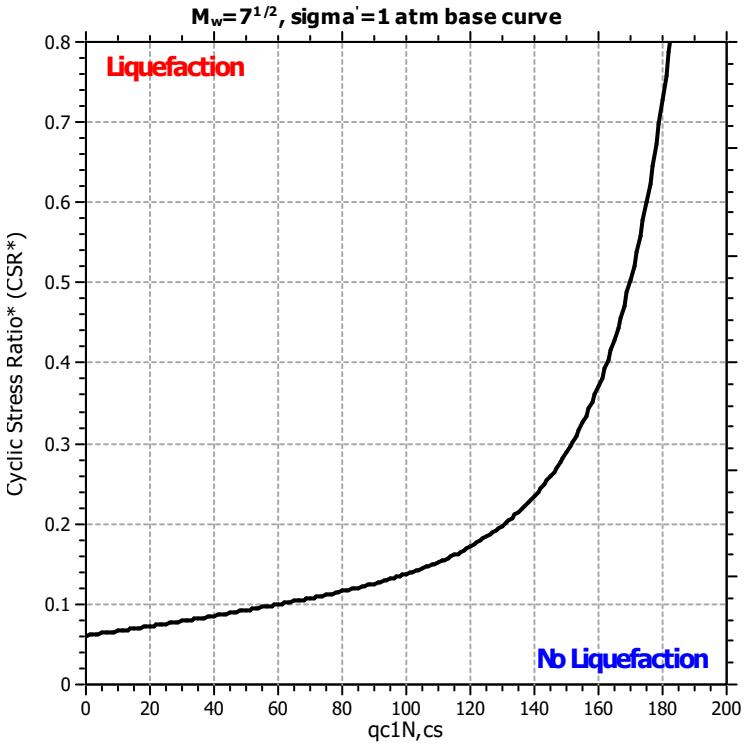
Project title : **Location :**

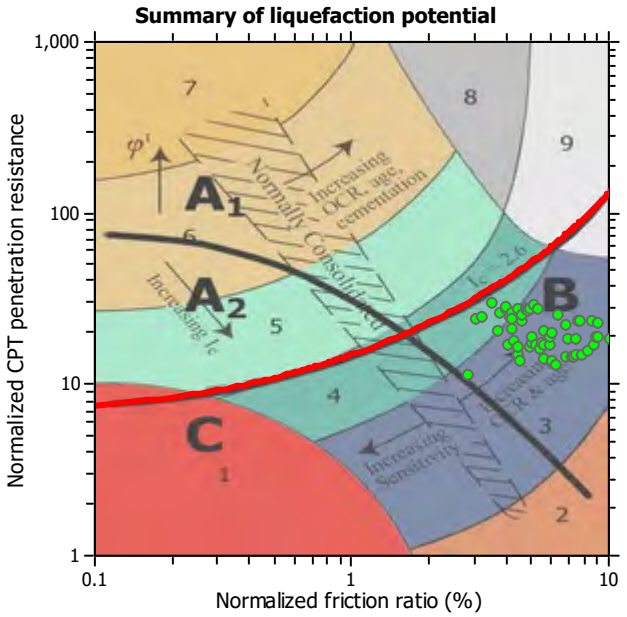
CPT file : SP036

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

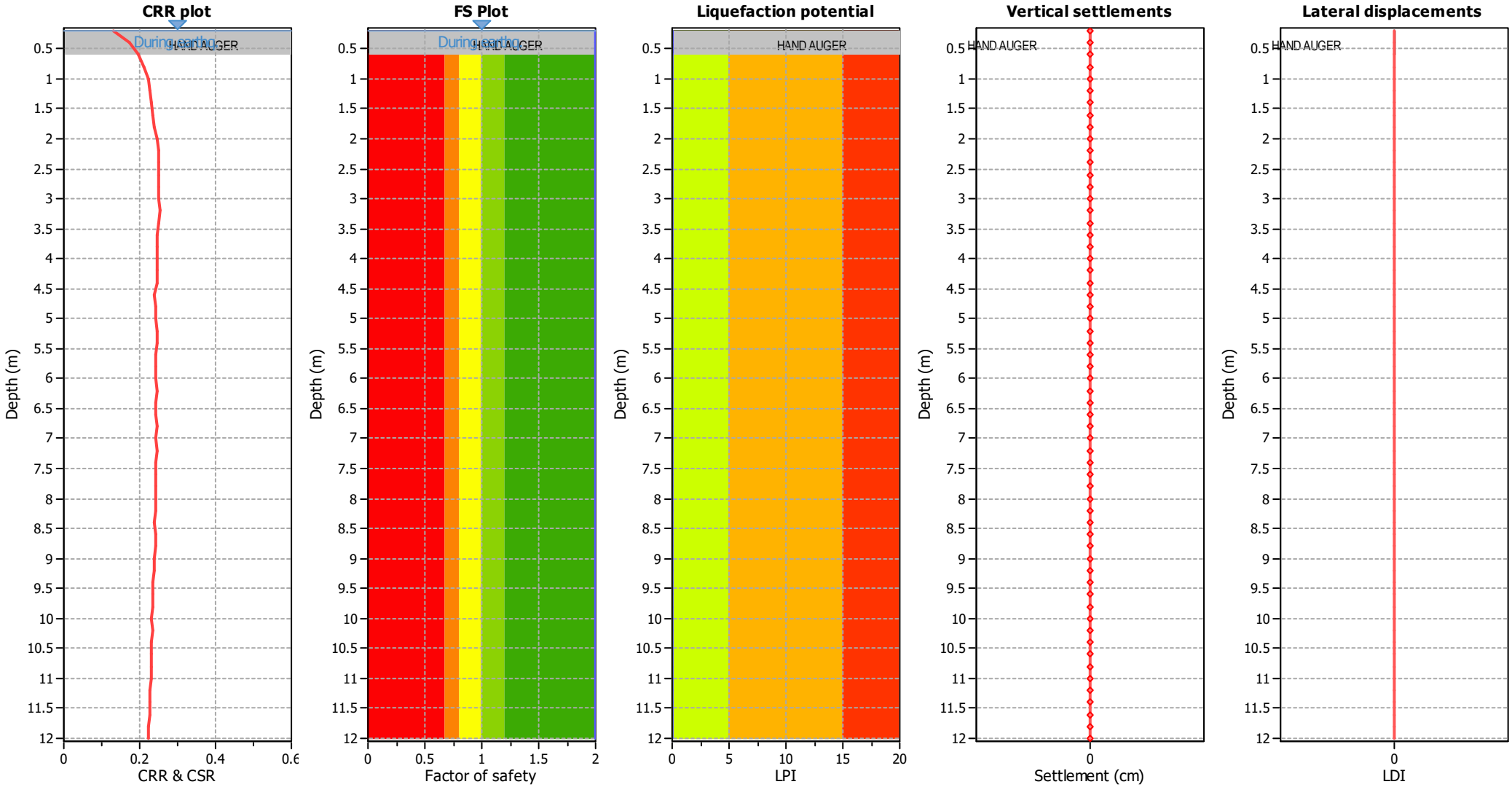






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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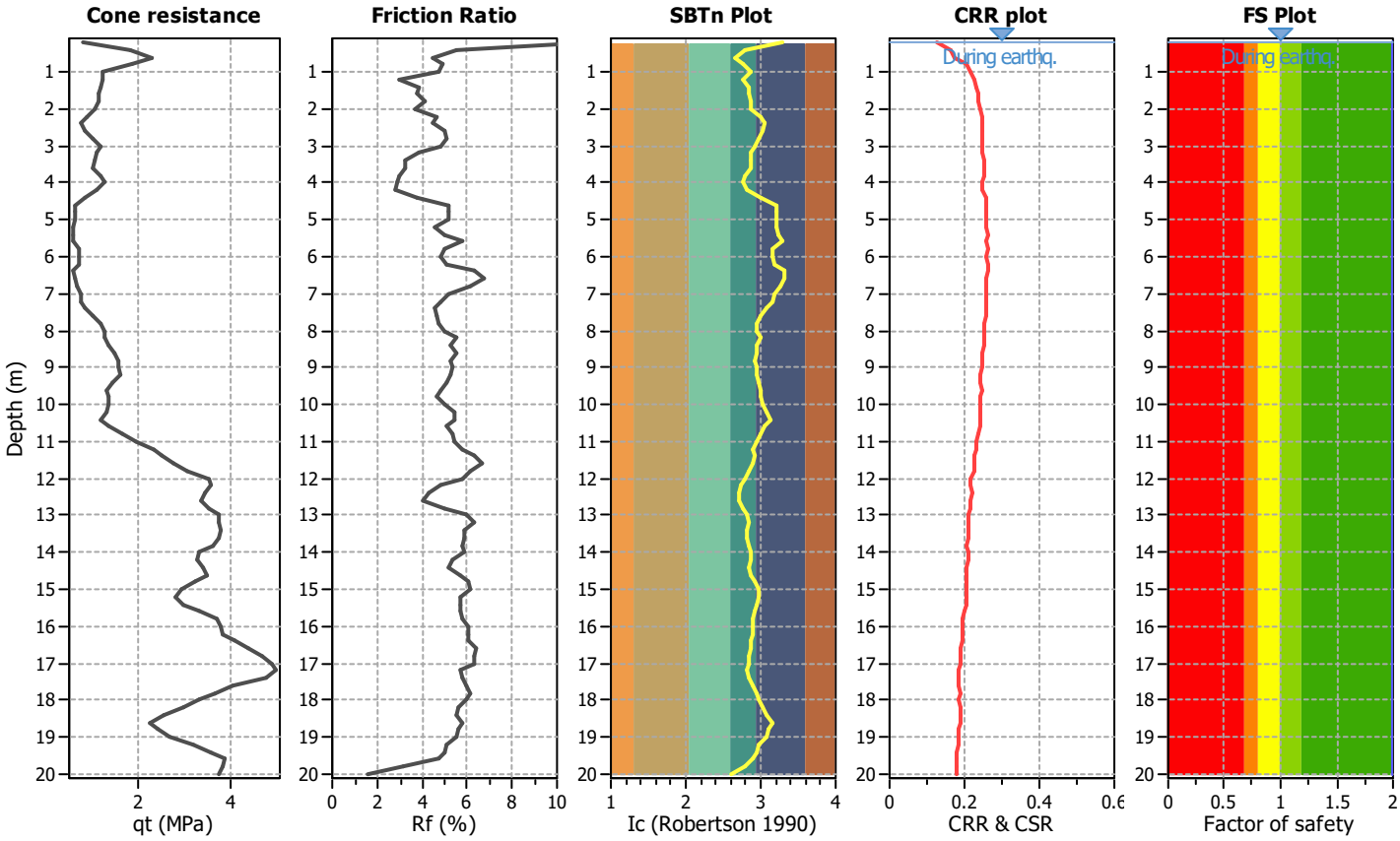
LIQUEFACTION ANALYSIS REPORT

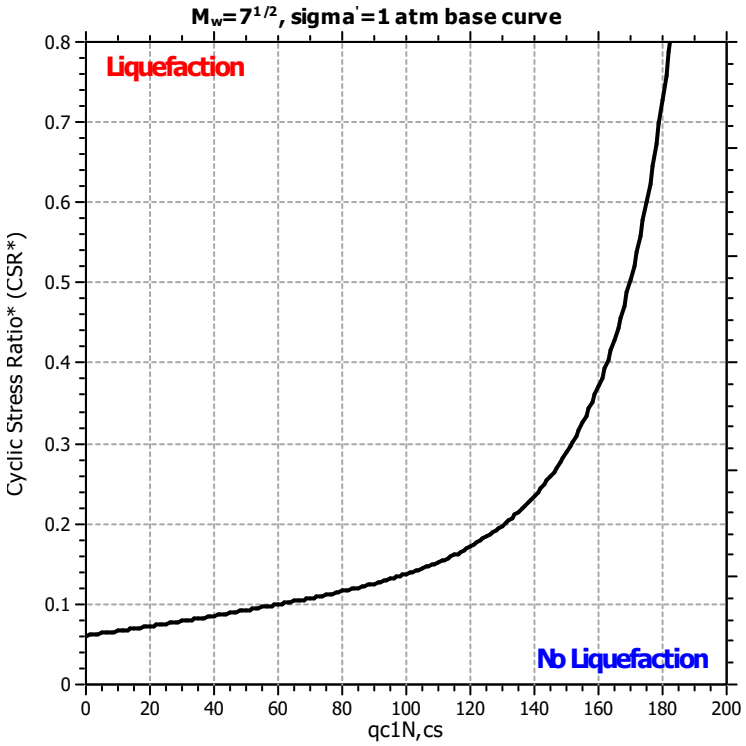
Project title : **Location :**

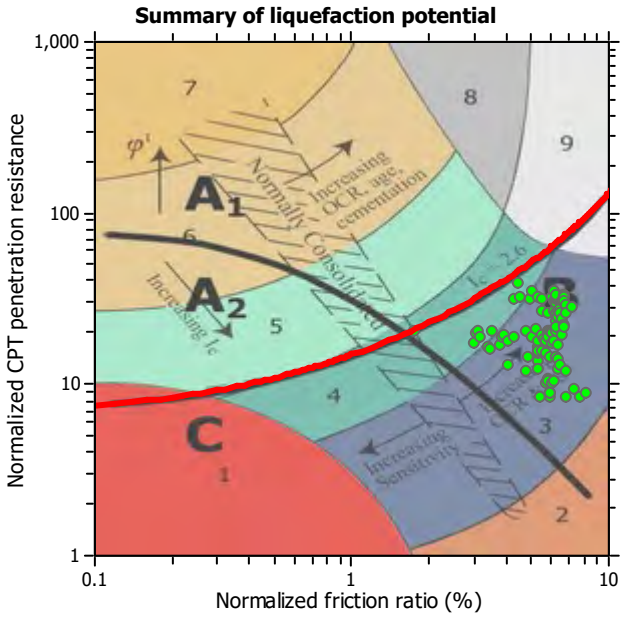
CPT file : SP040

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

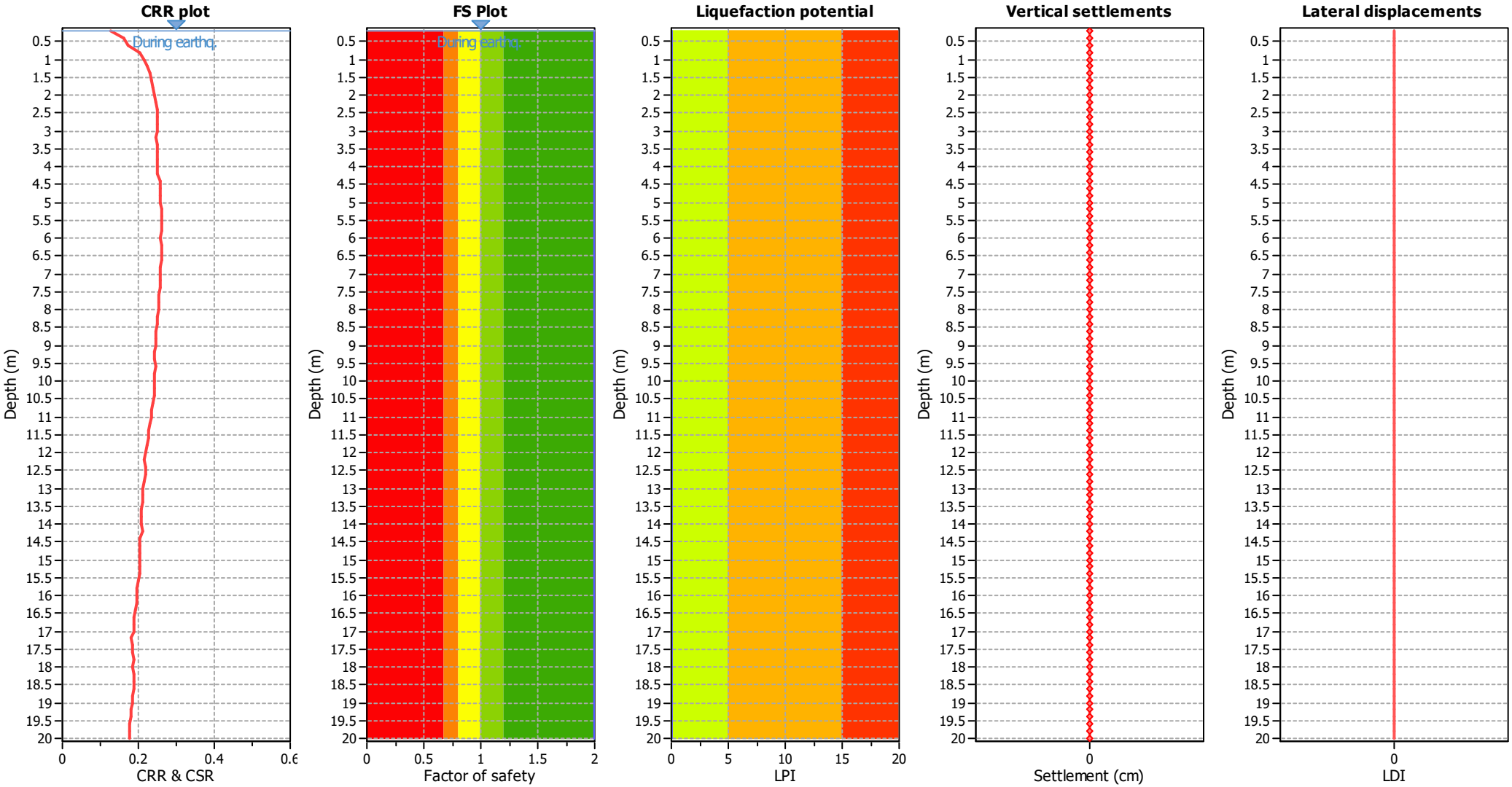






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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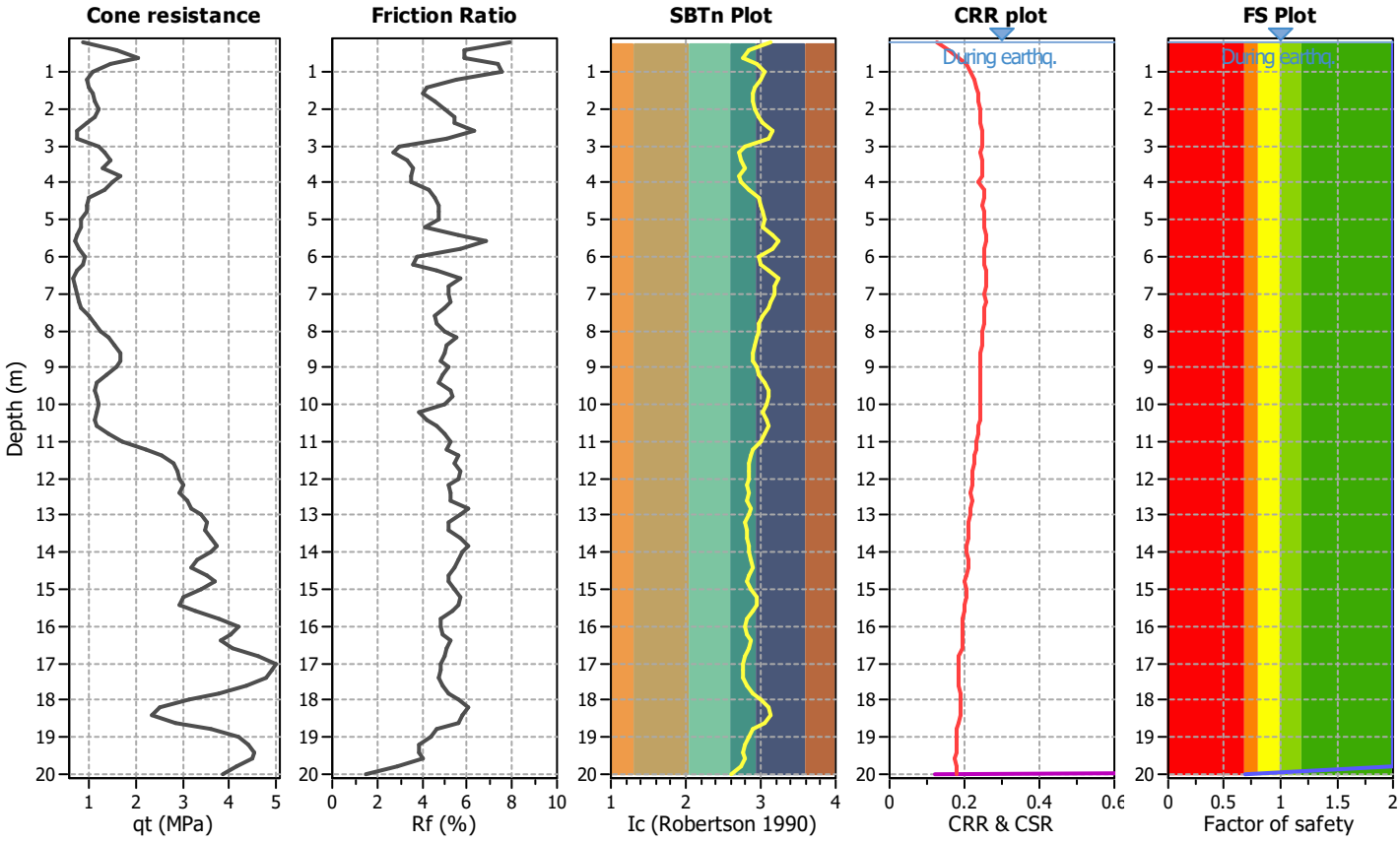
LIQUEFACTION ANALYSIS REPORT

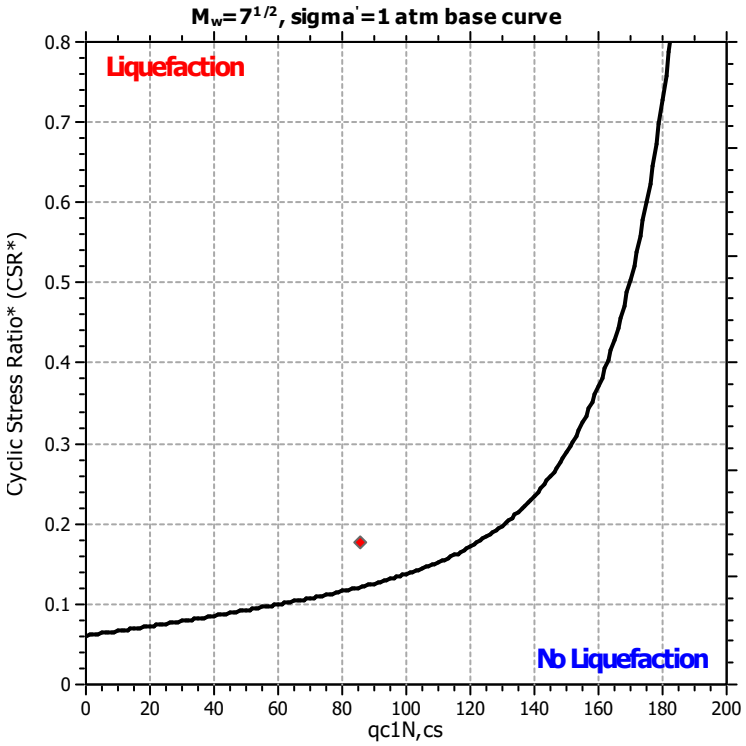
Project title : **Location :**

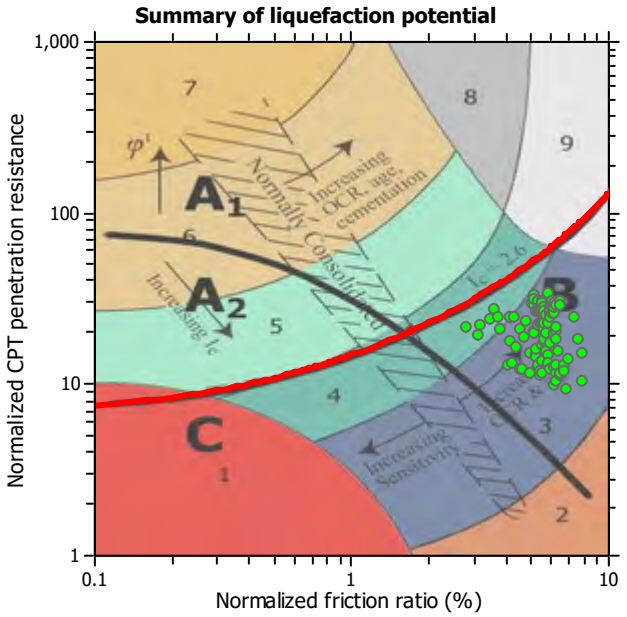
CPT file : SP041

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

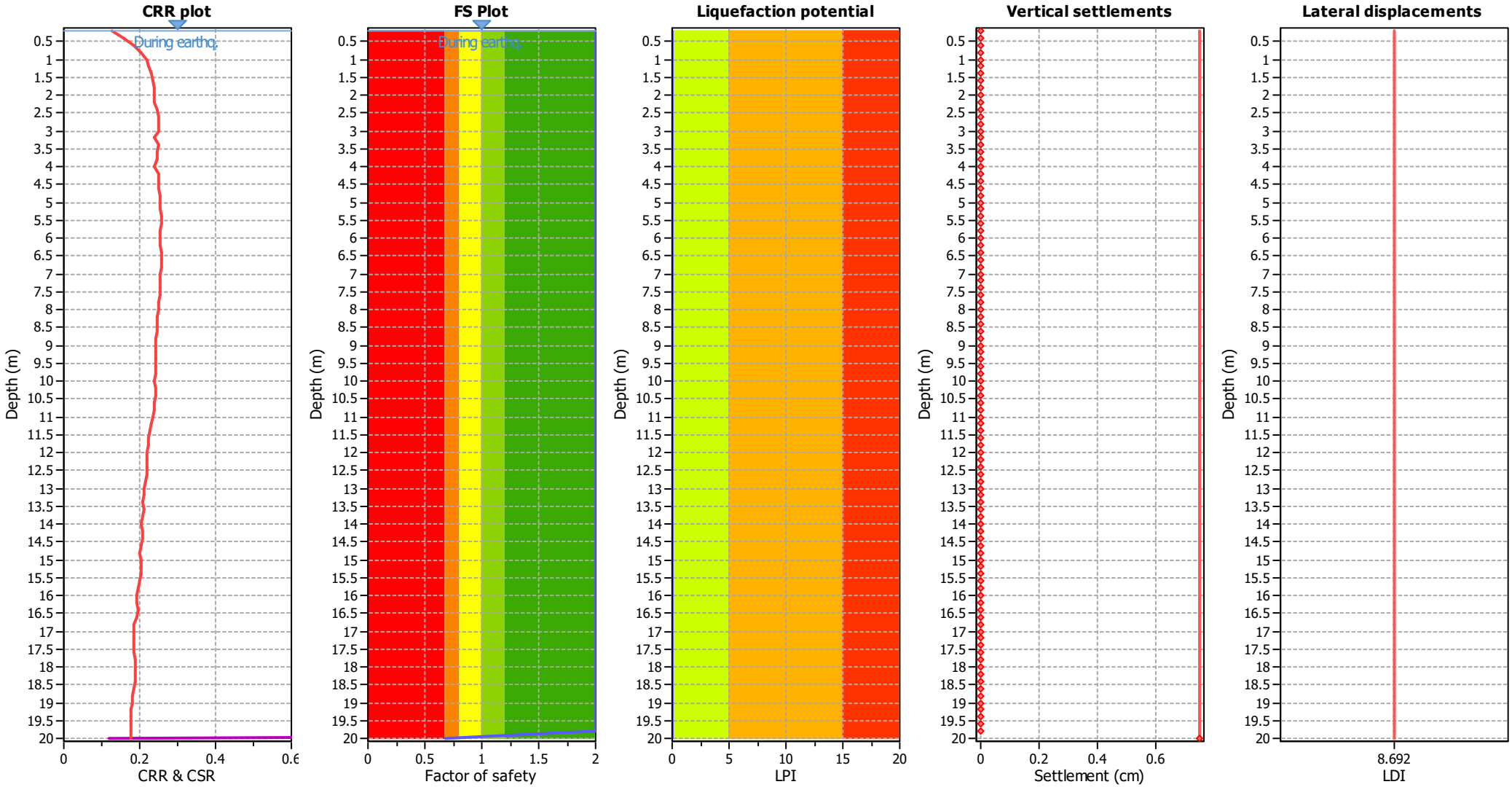






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	0.68	0.32	0.84	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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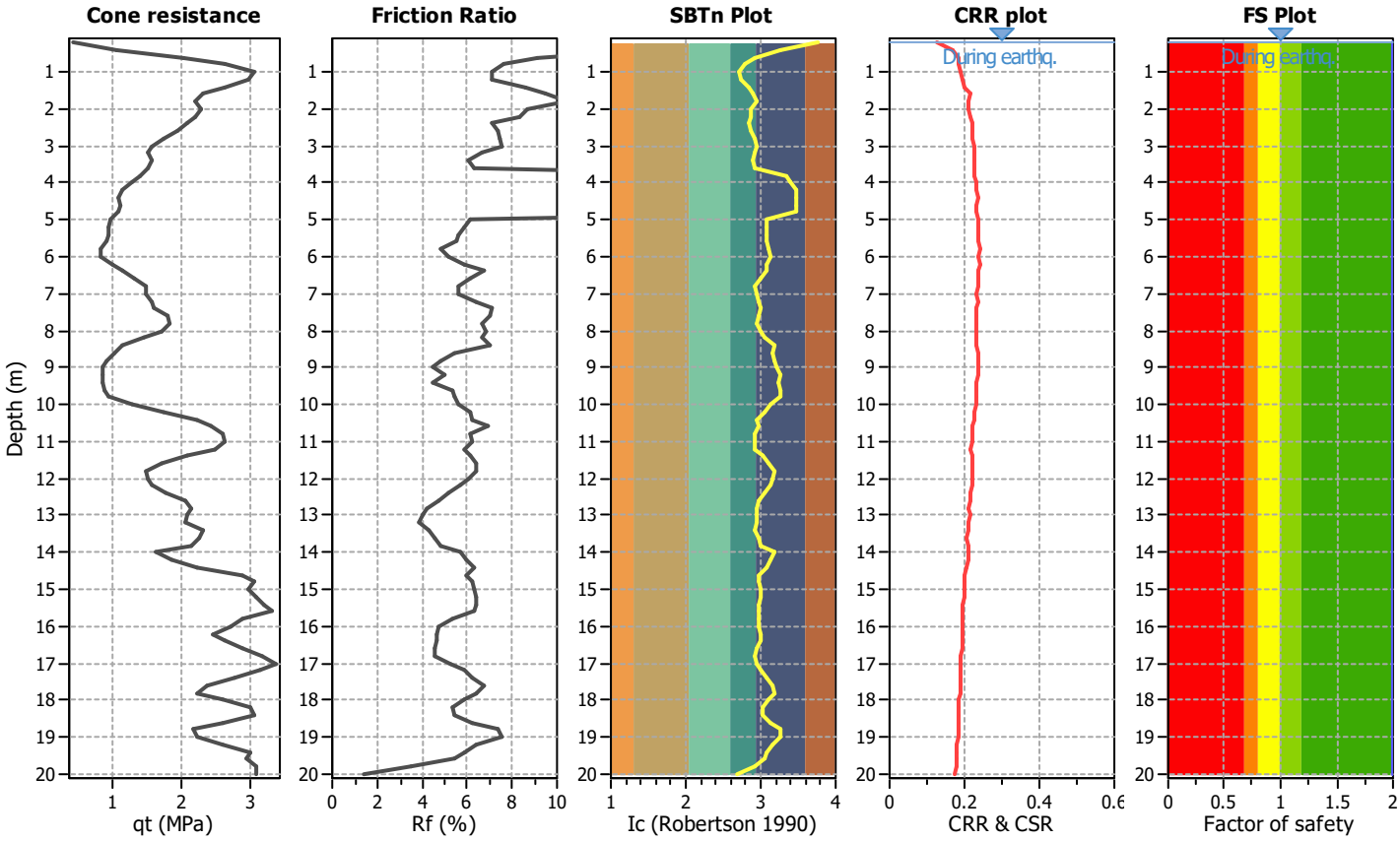
LIQUEFACTION ANALYSIS REPORT

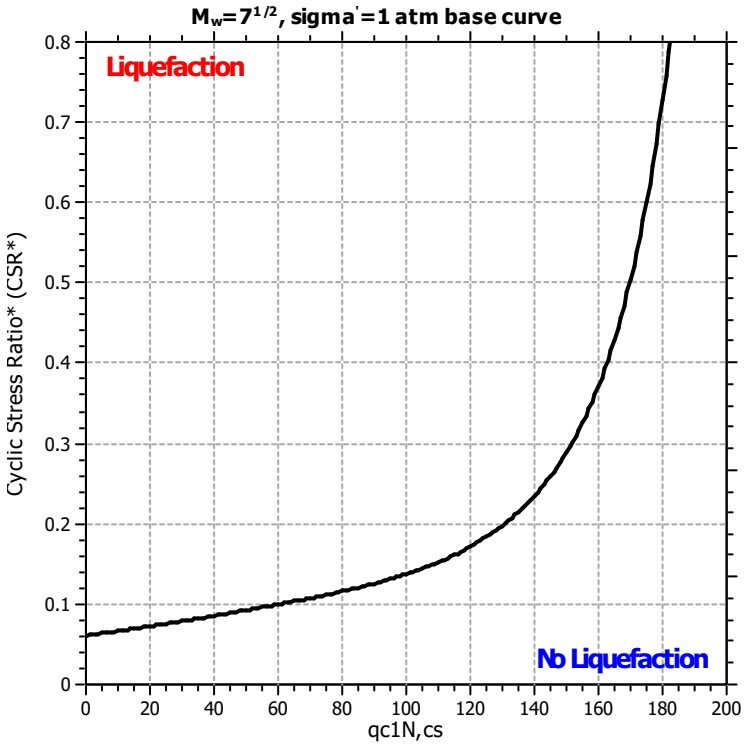
Project title : **Location :**

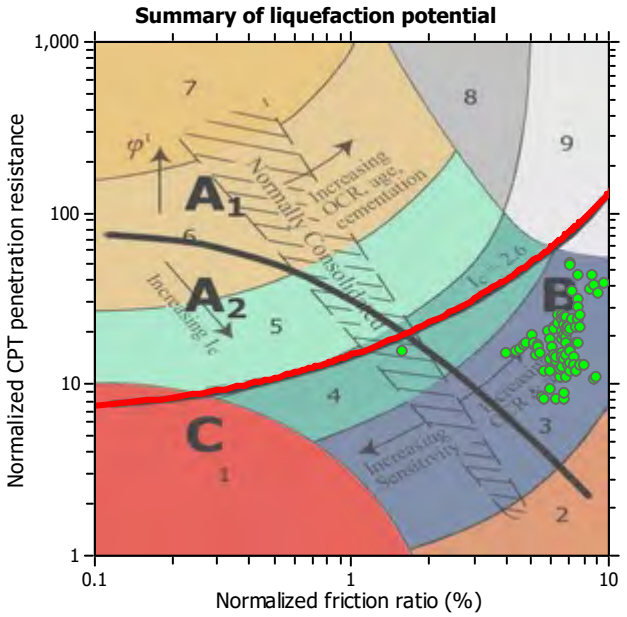
CPT file : SP042

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

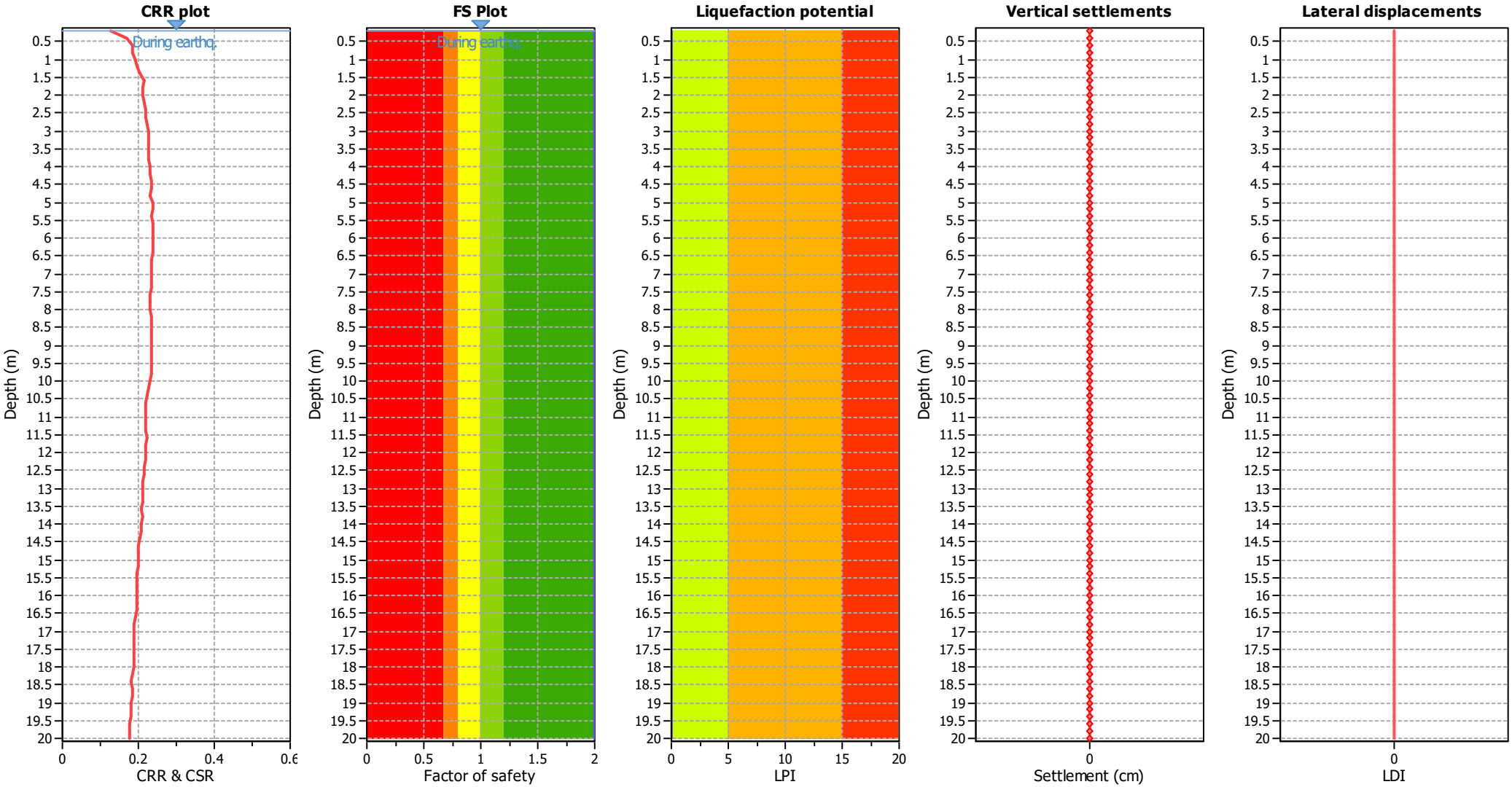






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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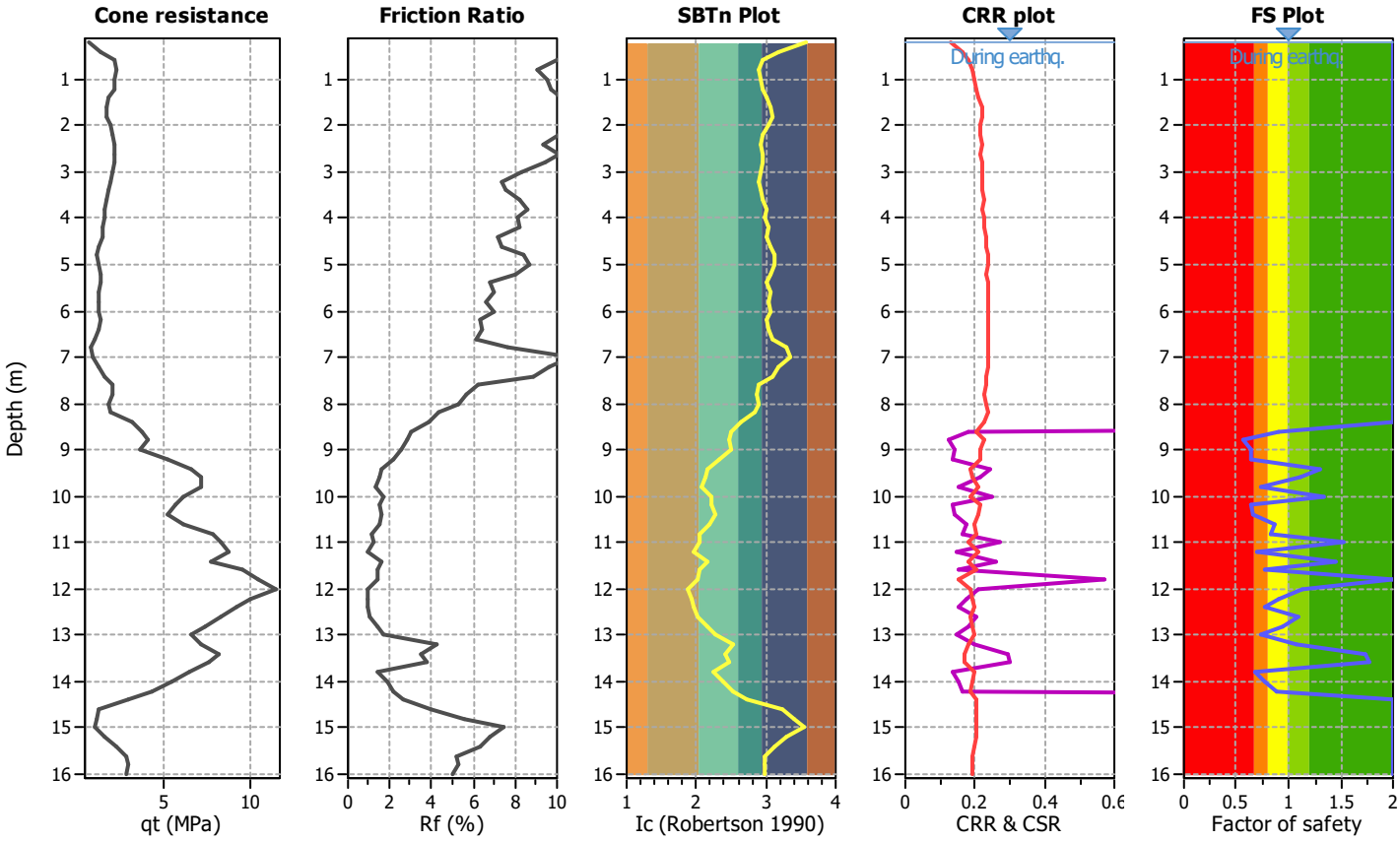
LIQUEFACTION ANALYSIS REPORT

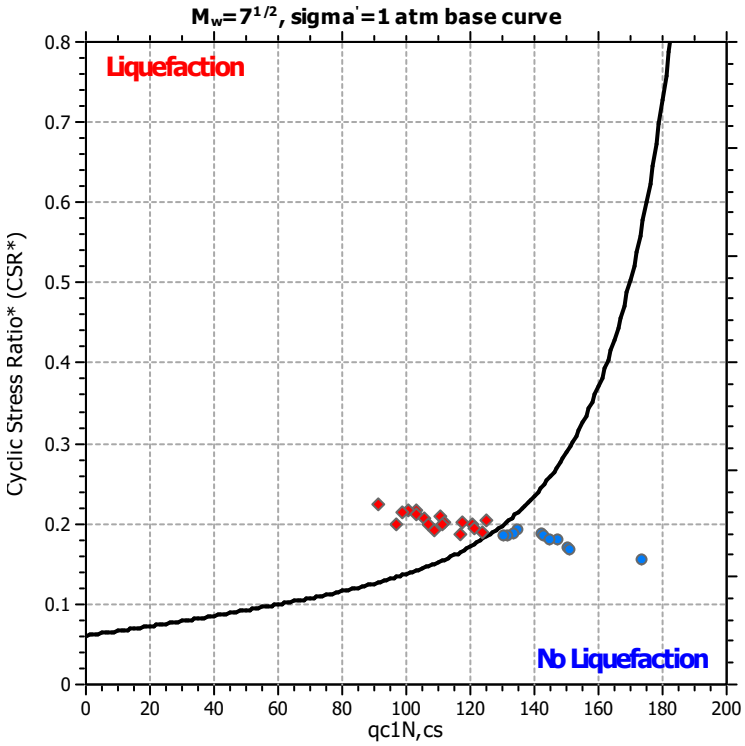
Project title : **Location :**

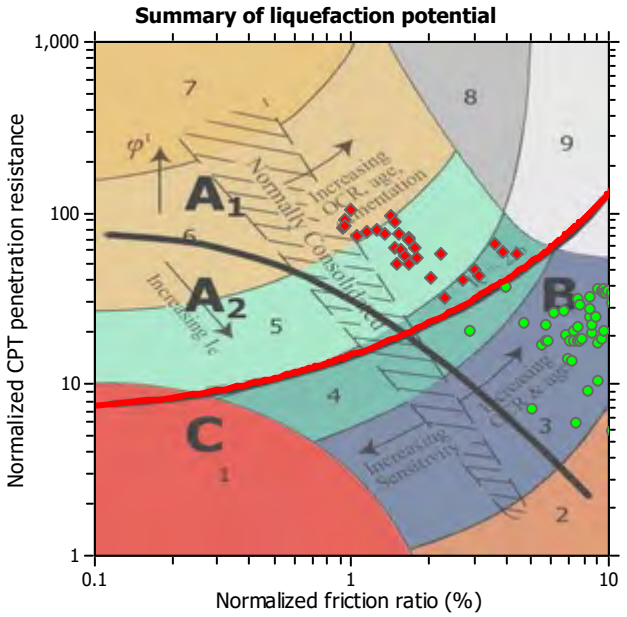
CPT file : SP043

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

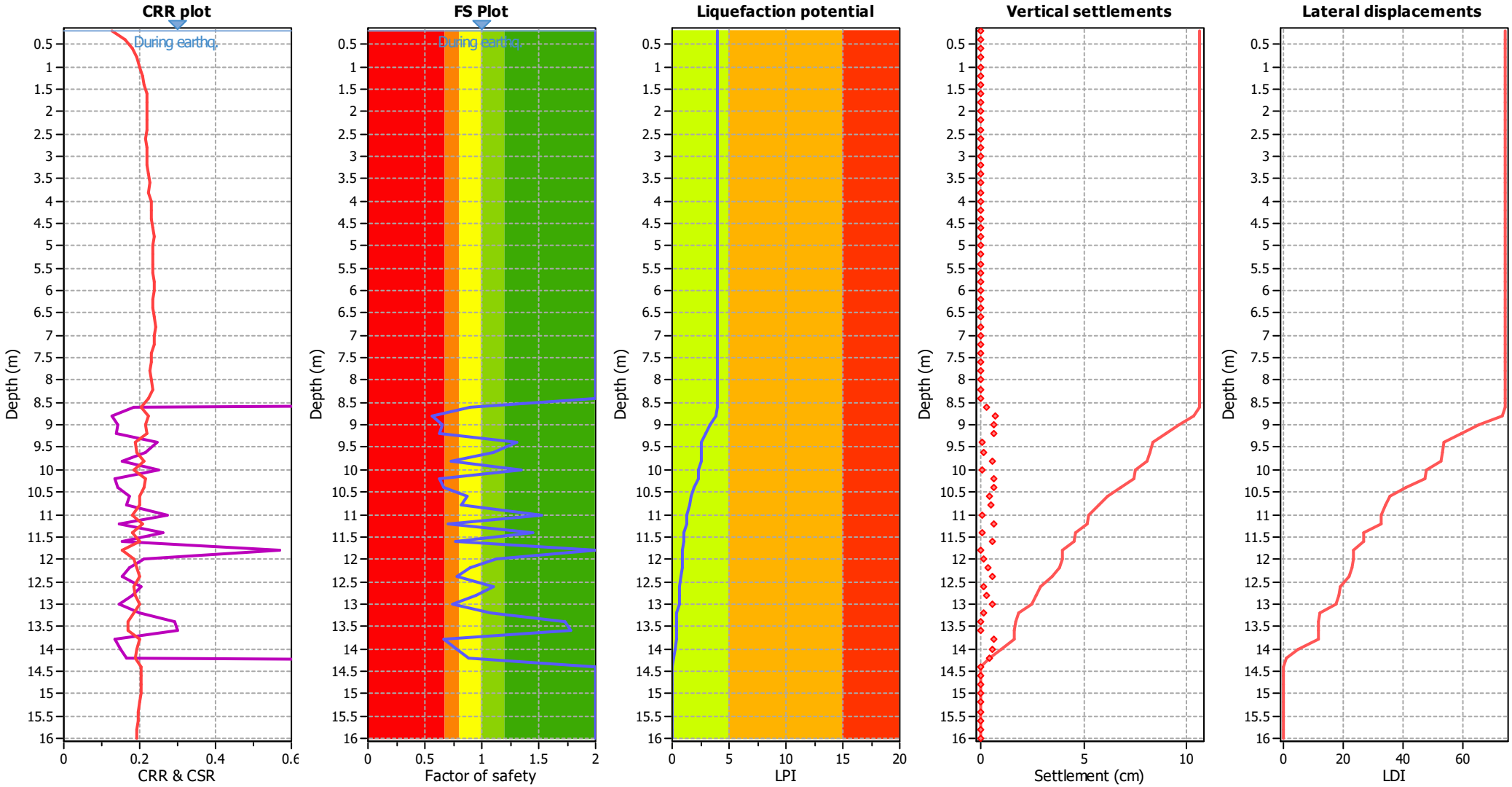






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	0.90	0.00	0.00	0.20	0.11	8.80	0.56	0.00	0.00	0.20	0.49
9.00	0.65	0.00	0.00	0.20	0.38	9.20	0.63	0.00	0.00	0.20	0.40
9.40	1.31	0.00	0.00	0.20	0.00	9.60	1.11	0.00	0.00	0.20	0.00
9.80	0.73	0.00	0.00	0.20	0.28	10.00	1.34	0.00	0.00	0.20	0.00
10.20	0.63	0.00	0.00	0.20	0.36	10.40	0.67	0.00	0.00	0.20	0.32
10.60	0.87	0.00	0.00	0.20	0.13	10.80	0.83	0.00	0.00	0.20	0.16
11.00	1.53	0.00	0.00	0.20	0.00	11.20	0.70	0.00	0.00	0.20	0.26
11.40	1.45	0.00	0.00	0.20	0.00	11.60	0.77	0.00	0.00	0.20	0.19
11.80	2.00	0.00	0.00	0.20	0.00	12.00	1.13	0.00	0.00	0.20	0.00
12.20	0.90	0.00	0.00	0.20	0.08	12.40	0.78	0.00	0.00	0.20	0.17
12.60	1.10	0.00	0.00	0.20	0.00	12.80	0.95	0.00	0.00	0.20	0.04
13.00	0.74	0.00	0.00	0.20	0.18	13.20	1.08	0.00	0.00	0.20	0.00
13.40	1.74	0.00	0.00	0.20	0.00	13.60	1.78	0.00	0.00	0.20	0.00
13.80	0.67	0.00	0.00	0.20	0.20	14.00	0.78	0.00	0.00	0.20	0.13
14.20	0.88	0.00	0.00	0.20	0.07	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.95

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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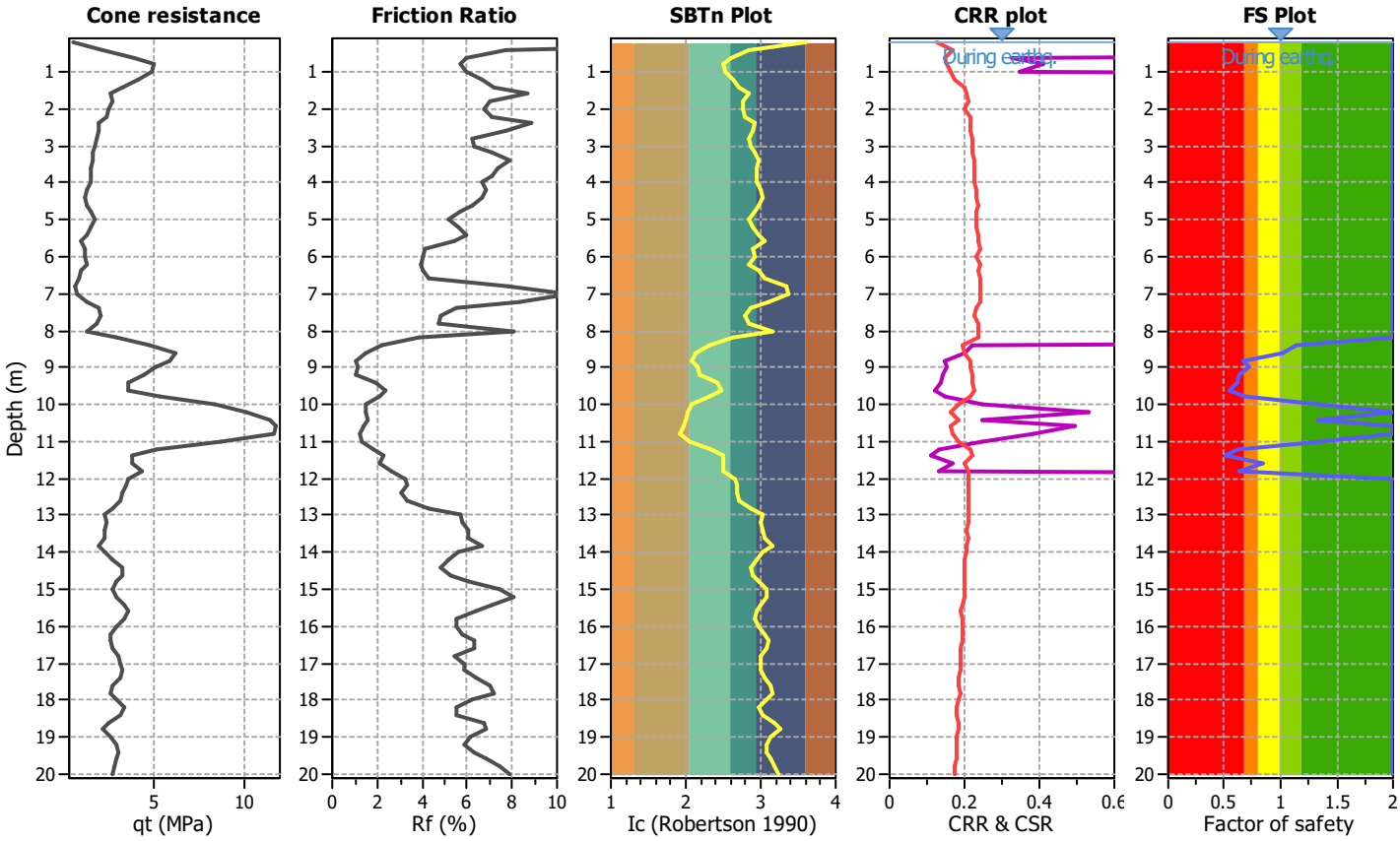
LIQUEFACTION ANALYSIS REPORT

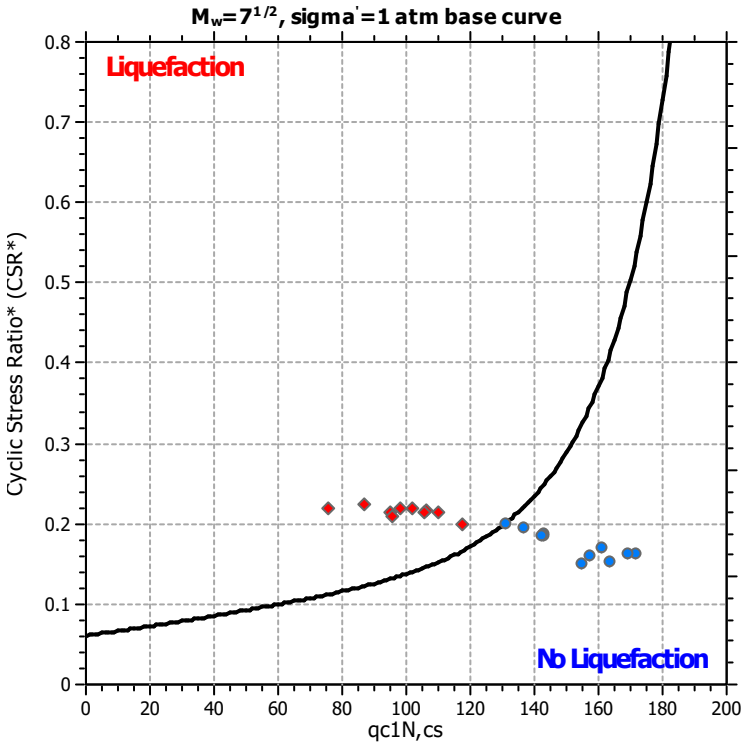
Project title : **Location :**

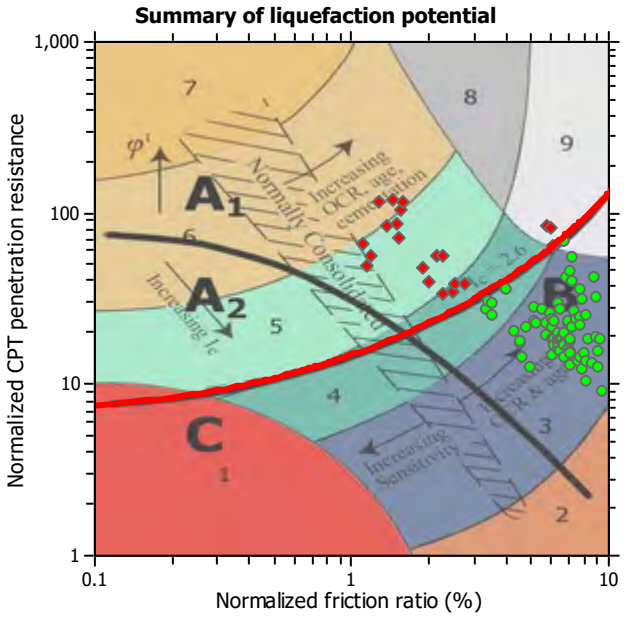
CPT file : SP044

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

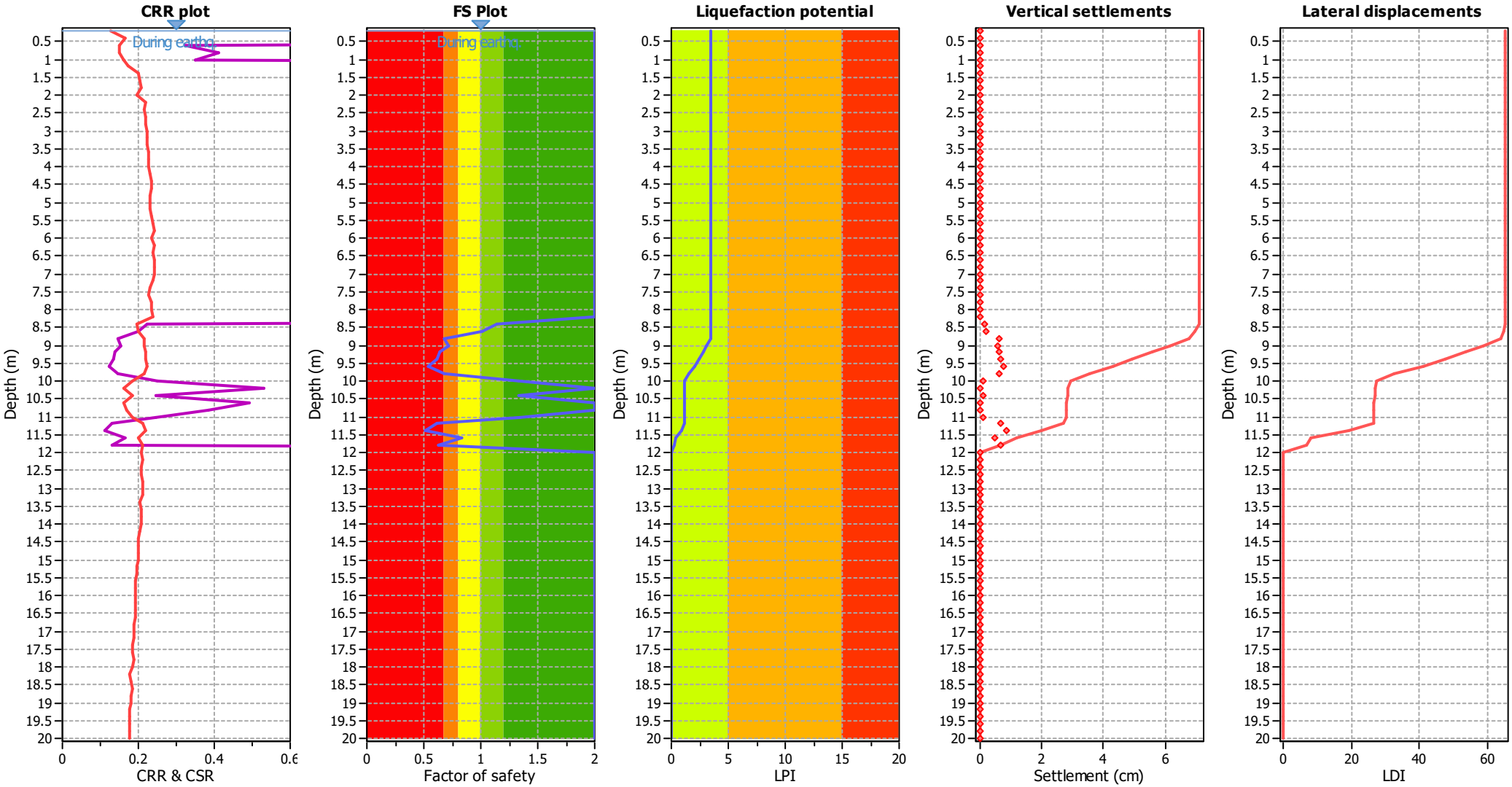






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	1.14	0.00	0.00	0.20	0.00
8.60	1.01	0.00	0.00	0.20	0.00	8.80	0.67	0.00	0.00	0.20	0.37
9.00	0.71	0.00	0.00	0.20	0.32	9.20	0.64	0.00	0.00	0.20	0.39
9.40	0.61	0.00	0.00	0.20	0.41	9.60	0.54	0.00	0.00	0.20	0.47
9.80	0.68	0.00	0.00	0.20	0.33	10.00	1.34	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	1.34	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	1.35	0.00	0.00	0.20	0.00	11.20	0.61	0.00	0.00	0.20	0.34
11.40	0.51	0.00	0.00	0.20	0.42	11.60	0.84	0.00	0.00	0.20	0.14
11.80	0.63	0.00	0.00	0.20	0.31	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.49

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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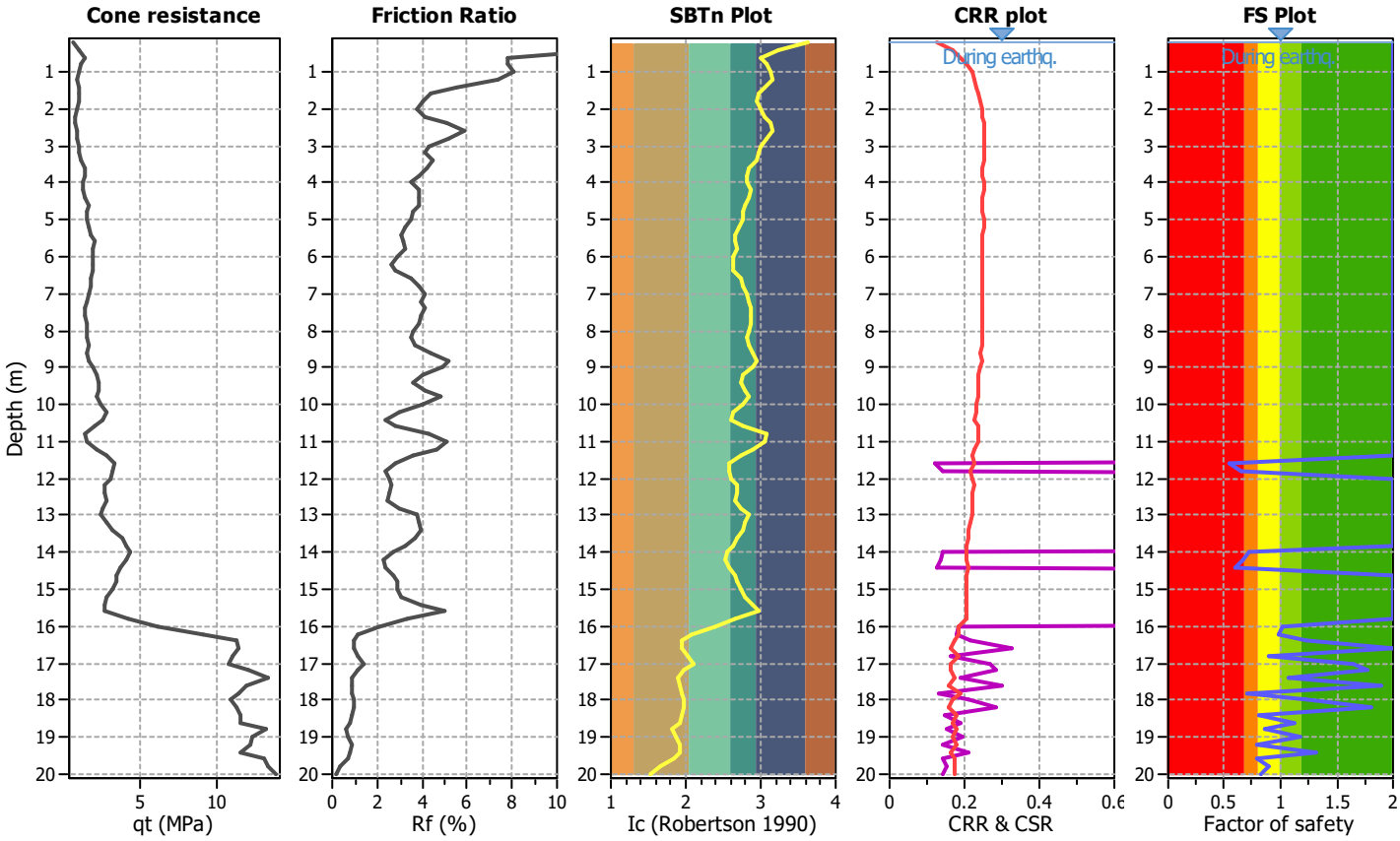
LIQUEFACTION ANALYSIS REPORT

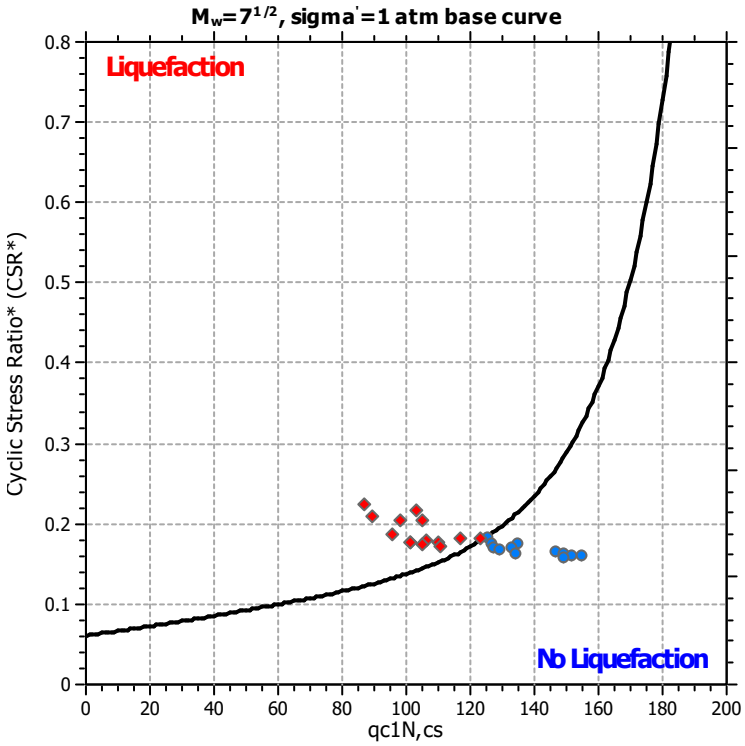
Project title : **Location :**

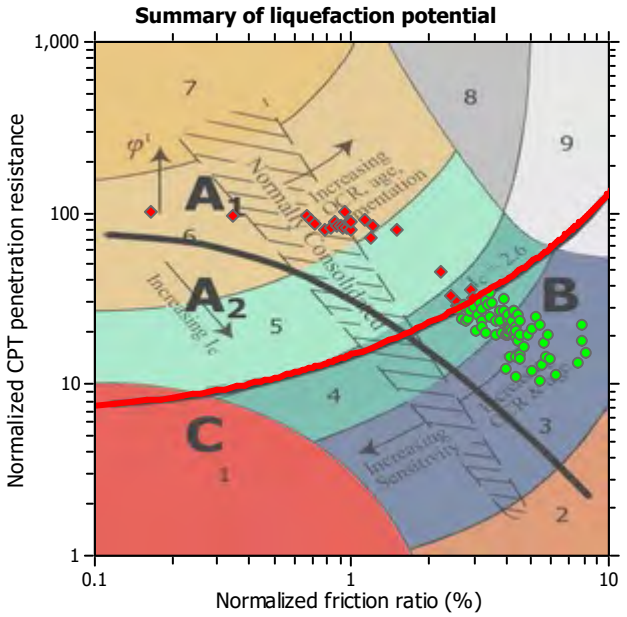
CPT file : SP049

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

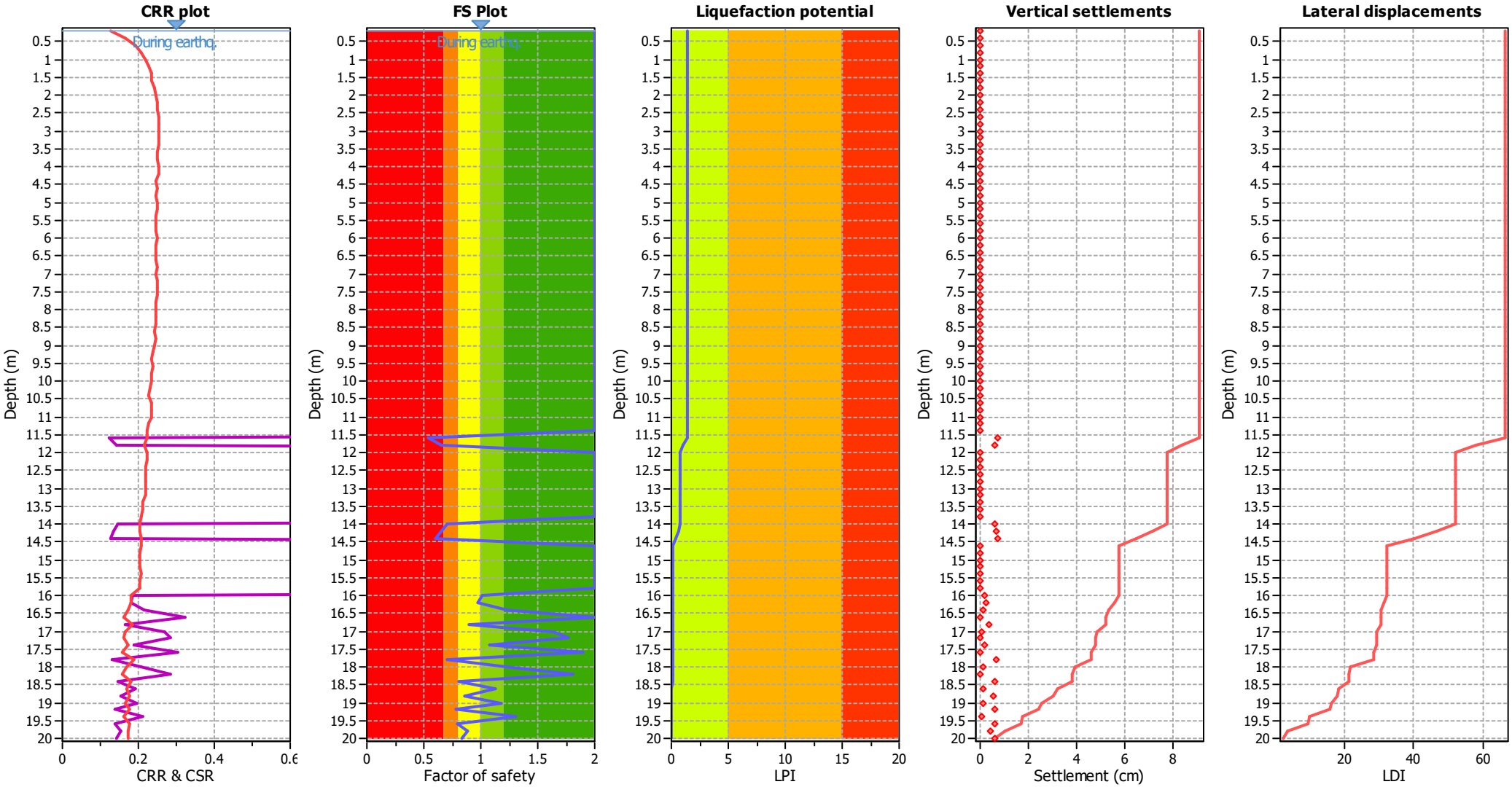






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	0.54	0.00	0.00	0.20	0.38
11.80	0.65	0.00	0.00	0.20	0.28	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	0.71	0.00	0.00	0.20	0.17
14.20	0.66	0.00	0.00	0.20	0.20	14.40	0.60	0.00	0.00	0.20	0.22
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	1.02	0.00	0.00	0.20	0.00
16.20	0.98	0.00	0.00	0.20	0.01	16.40	1.23	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	0.90	0.00	0.00	0.20	0.03
17.00	1.64	0.00	0.00	0.20	0.00	17.20	1.76	0.00	0.00	0.20	0.00
17.40	1.08	0.00	0.00	0.20	0.00	17.60	1.90	0.00	0.00	0.20	0.00
17.80	0.71	0.00	0.00	0.20	0.06	18.00	1.24	0.00	0.00	0.20	0.00
18.20	1.81	0.00	0.00	0.20	0.00	18.40	0.81	0.00	0.00	0.20	0.03
18.60	1.13	0.00	0.00	0.20	0.00	18.80	0.87	0.00	0.00	0.20	0.02
19.00	1.18	0.00	0.00	0.20	0.00	19.20	0.78	0.00	0.00	0.20	0.02

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	1.31	0.00	0.00	0.20	0.00	19.60	0.79	0.00	0.00	0.20	0.01
19.80	0.89	0.00	0.00	0.20	0.00	20.00	0.83	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.44

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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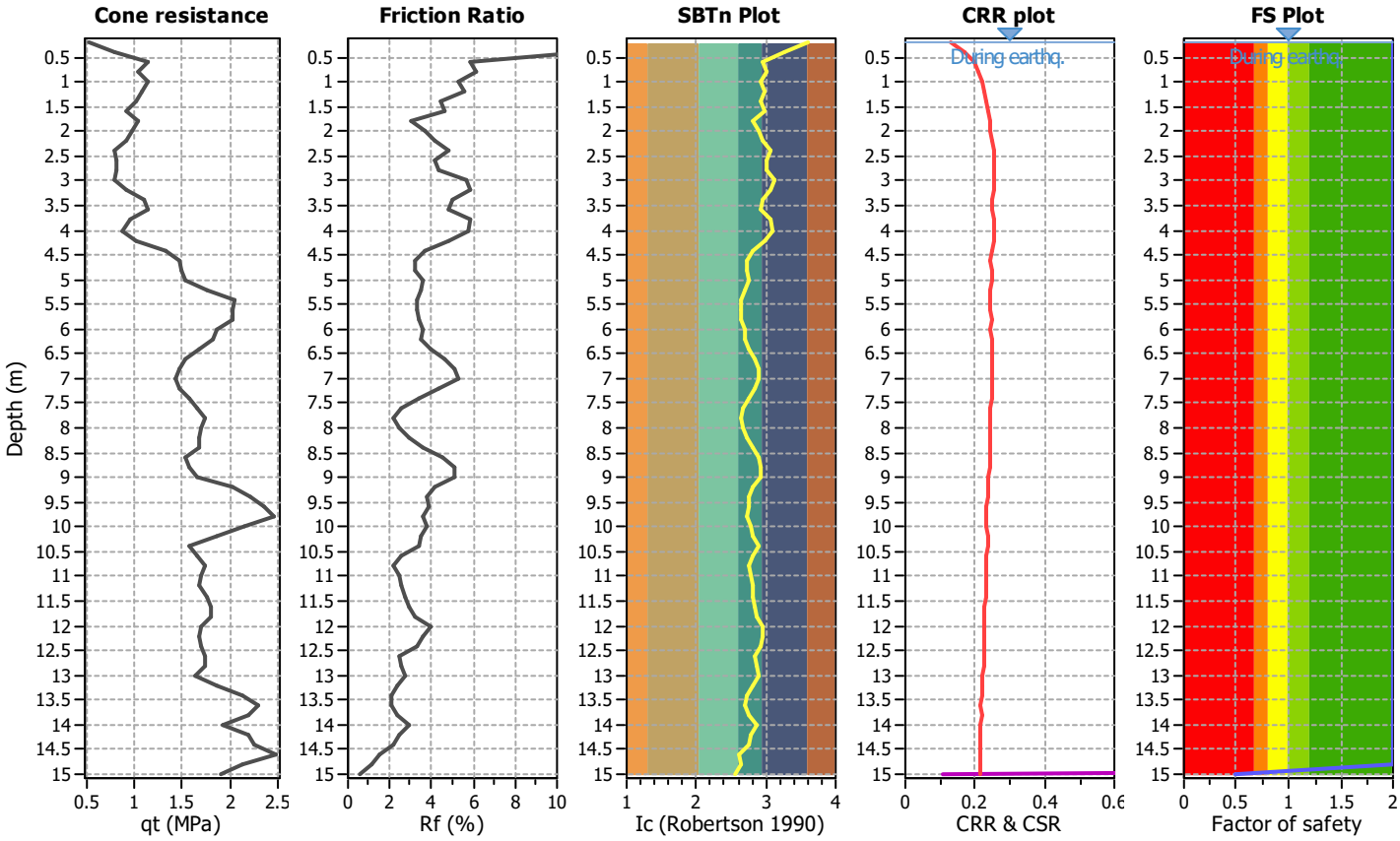
LIQUEFACTION ANALYSIS REPORT

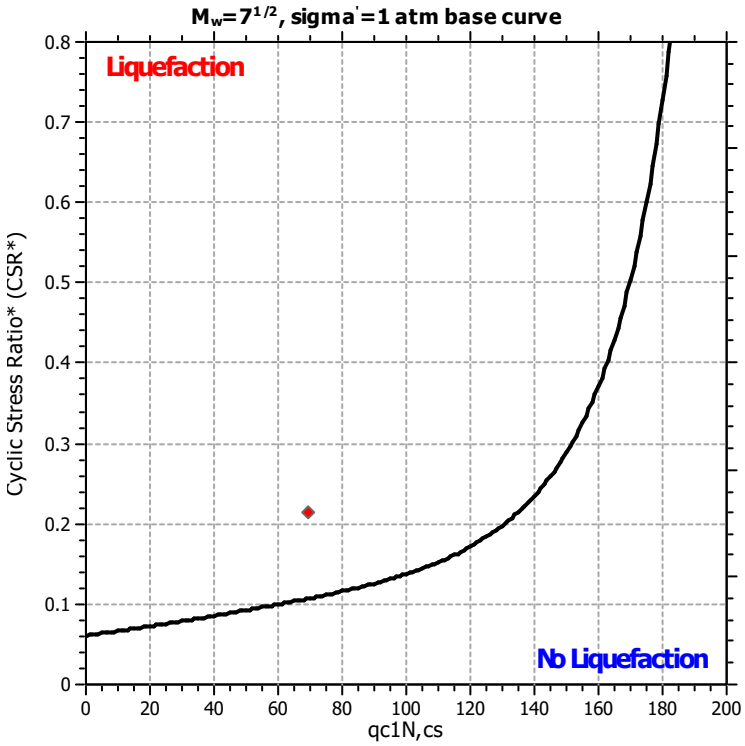
Project title : **Location :**

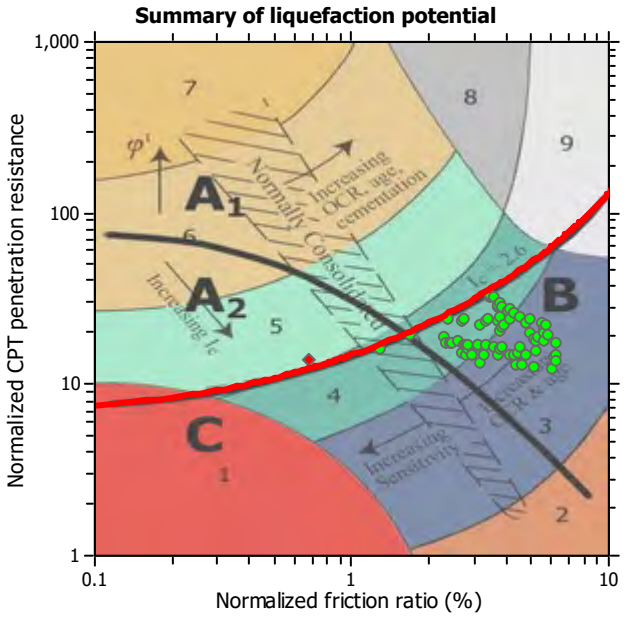
CPT file : SP050

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

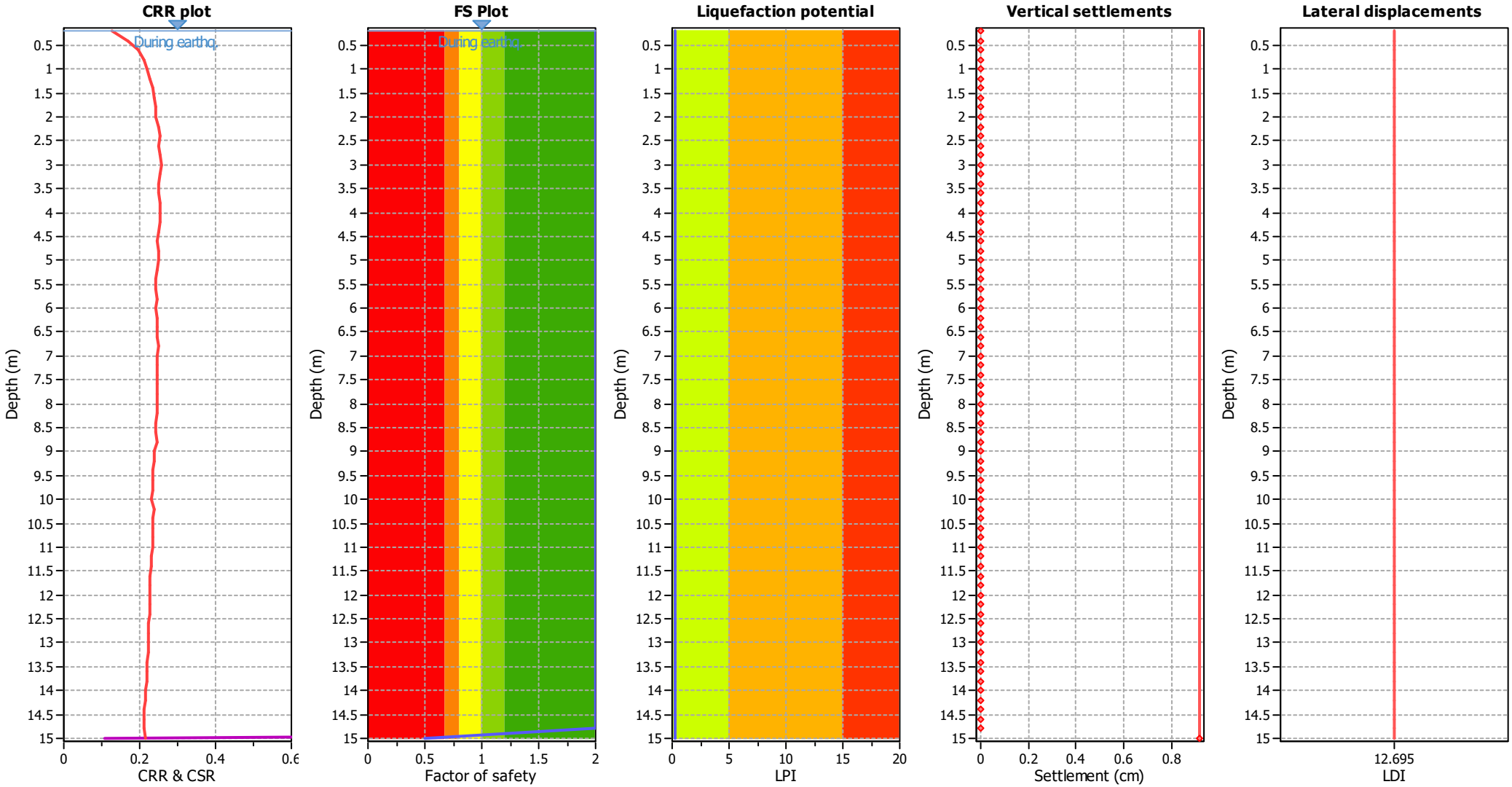






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	0.50	0.50	0.48	0.20	0.25						

Overall liquefaction potential: 0.25

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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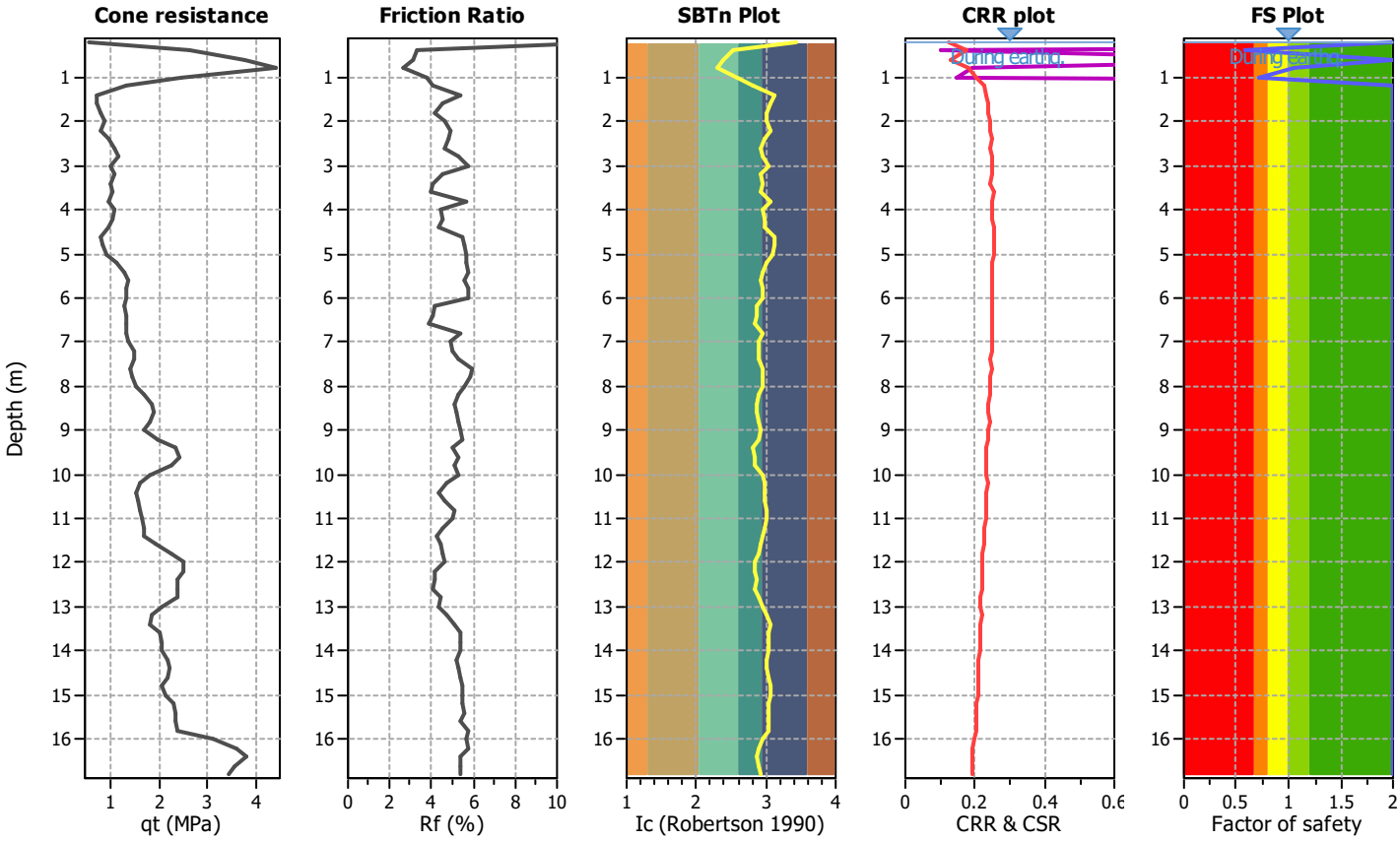
LIQUEFACTION ANALYSIS REPORT

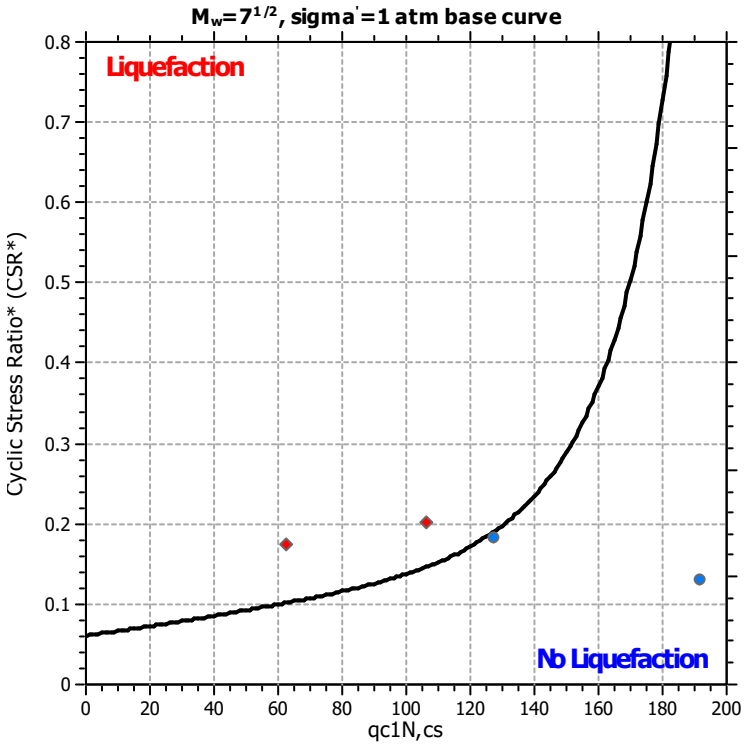
Project title : **Location :**

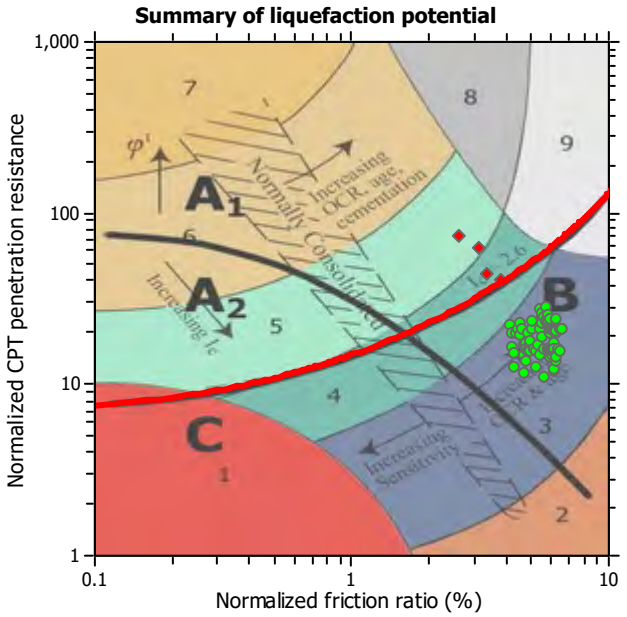
CPT file : SP056

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

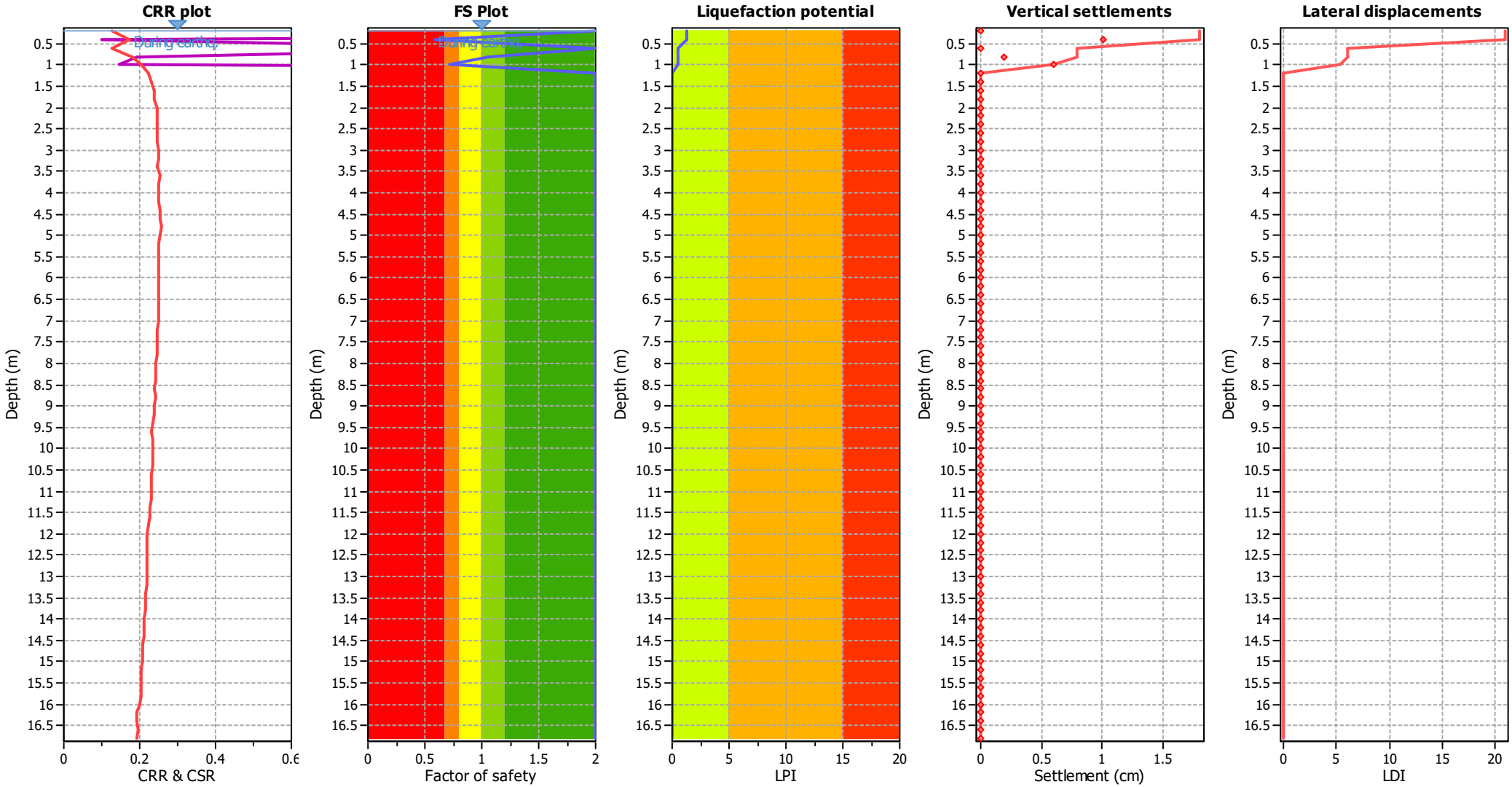






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	0.58	0.42	0.60	0.20	0.82
0.60	2.00	0.00	0.00	0.20	0.00	0.80	1.05	0.00	0.00	0.20	0.00
1.00	0.72	0.28	1.02	0.20	0.53	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 1.35

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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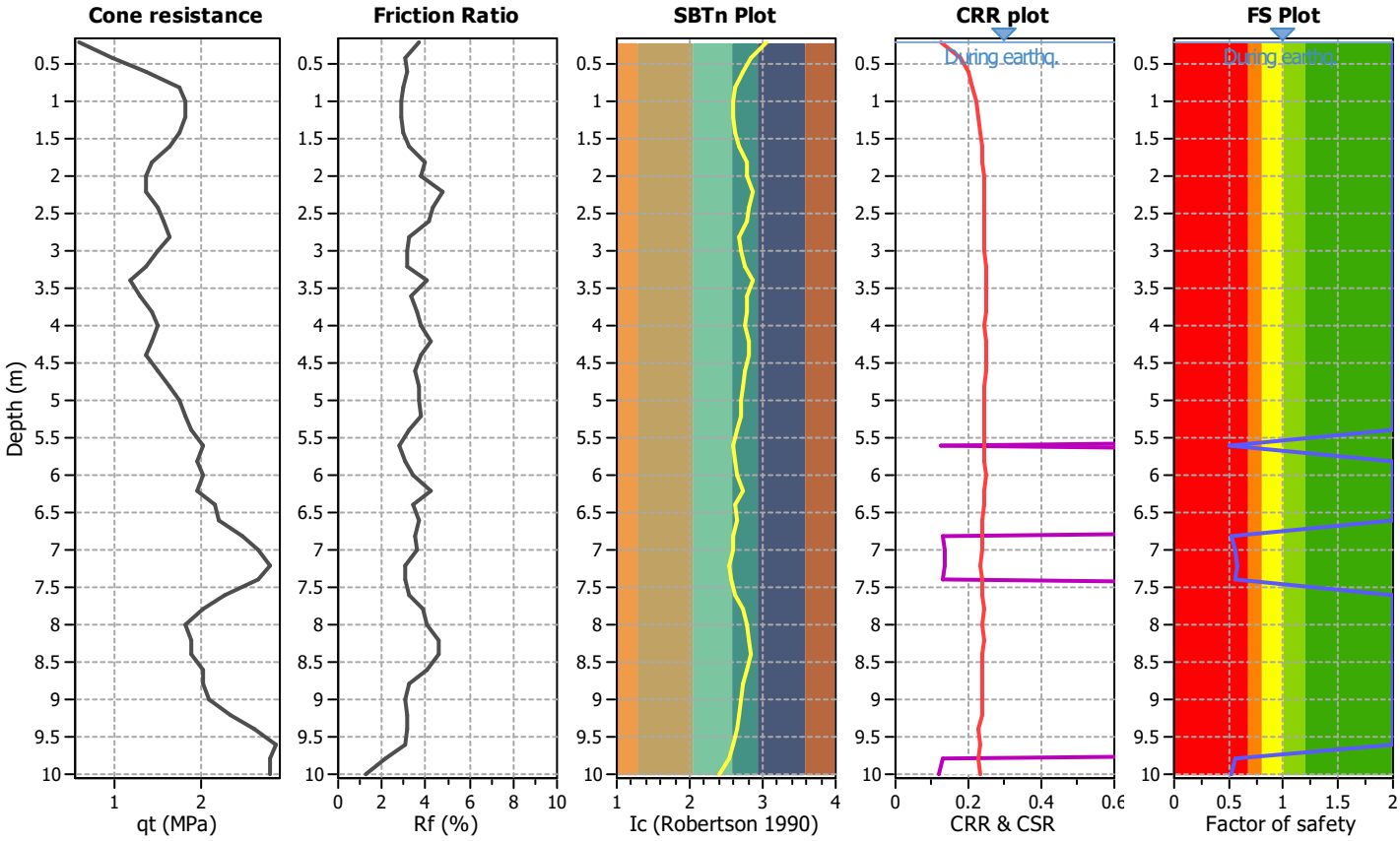
LIQUEFACTION ANALYSIS REPORT

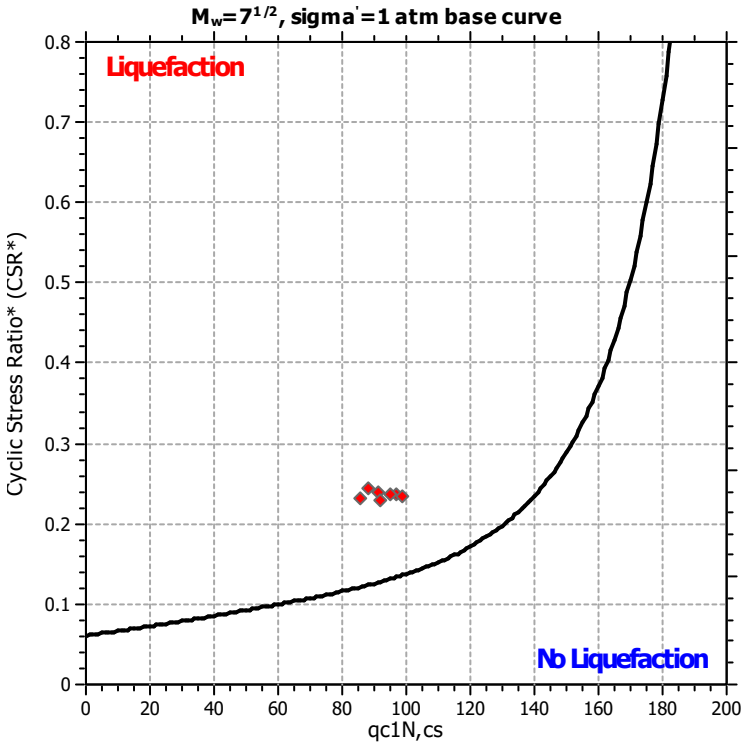
Project title : **Location :**

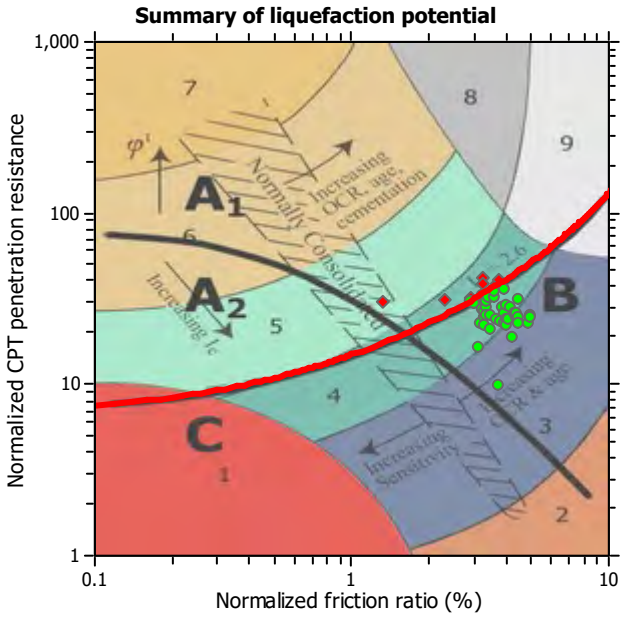
CPT file : SP057

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

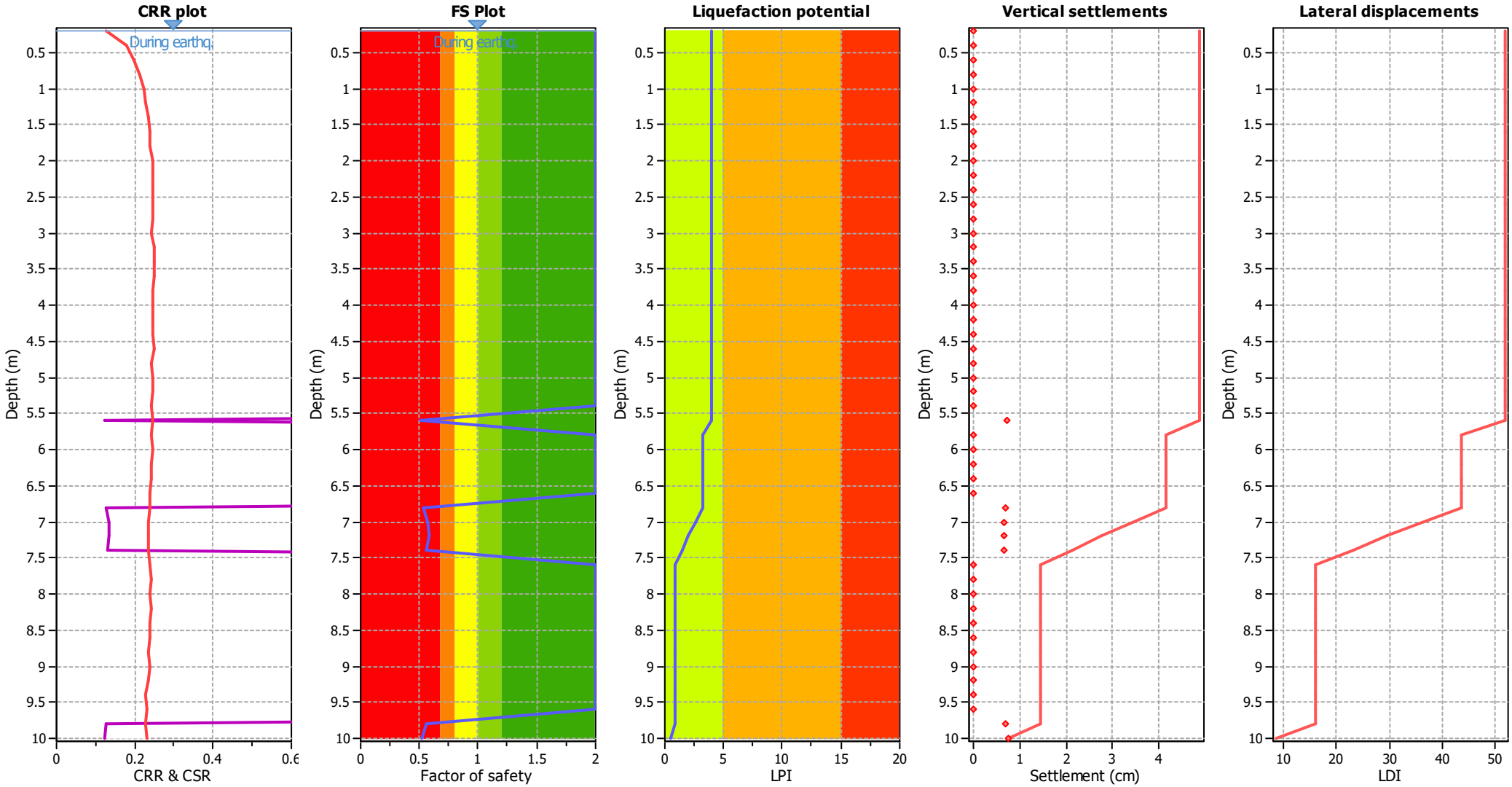






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	0.51	0.00	0.00	0.20	0.71
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	0.53	0.00	0.00	0.20	0.62
7.00	0.57	0.00	0.00	0.20	0.56	7.20	0.58	0.00	0.00	0.20	0.54
7.40	0.56	0.00	0.00	0.20	0.56	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	0.56	0.00	0.00	0.20	0.45	10.00	0.53	0.00	0.00	0.20	0.47

Overall liquefaction potential: 3.91

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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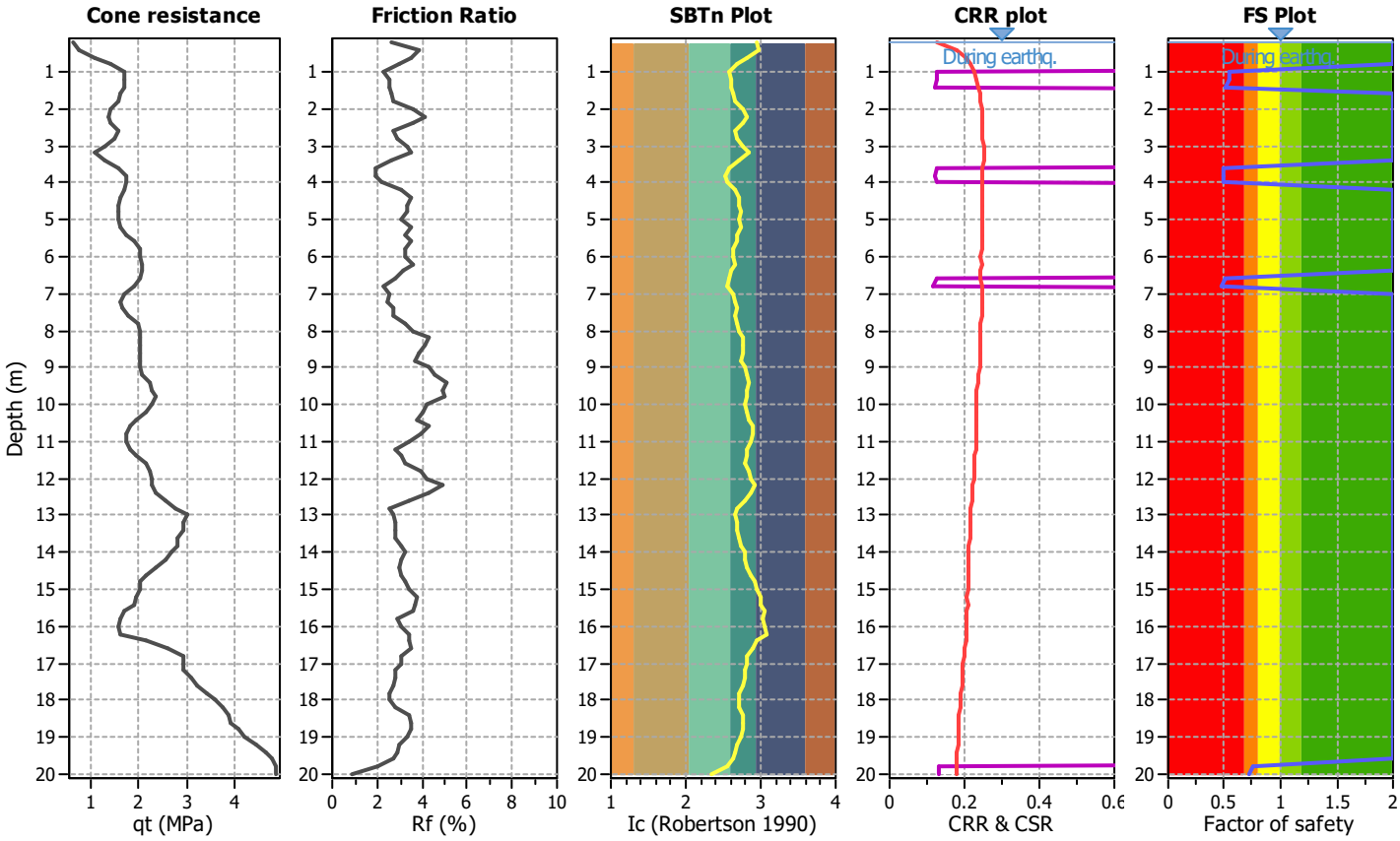
LIQUEFACTION ANALYSIS REPORT

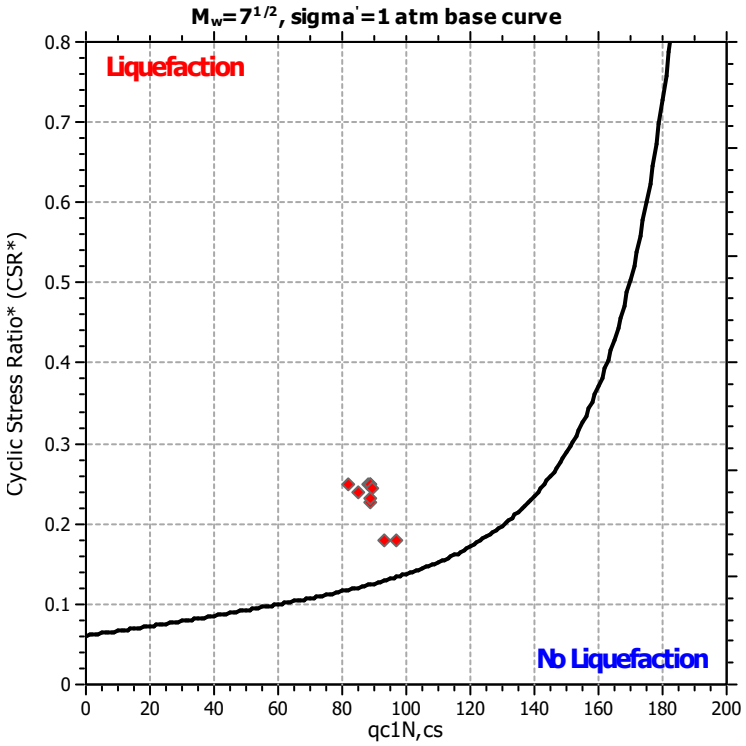
Project title : **Location :**

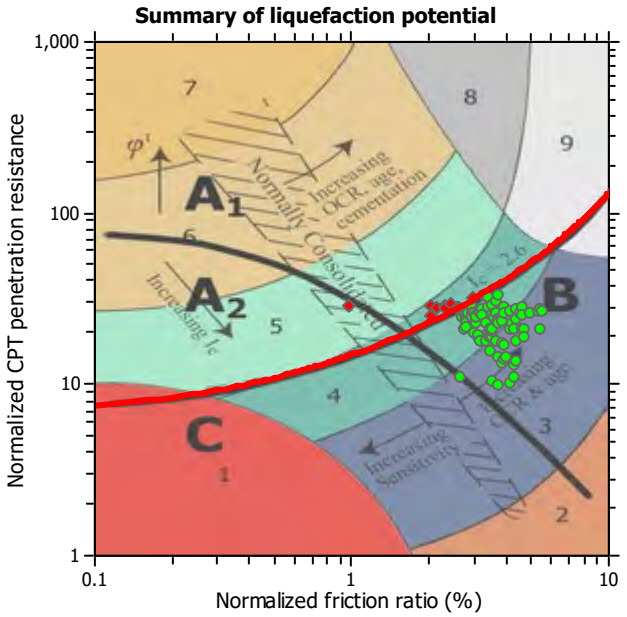
CPT file : SP058

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

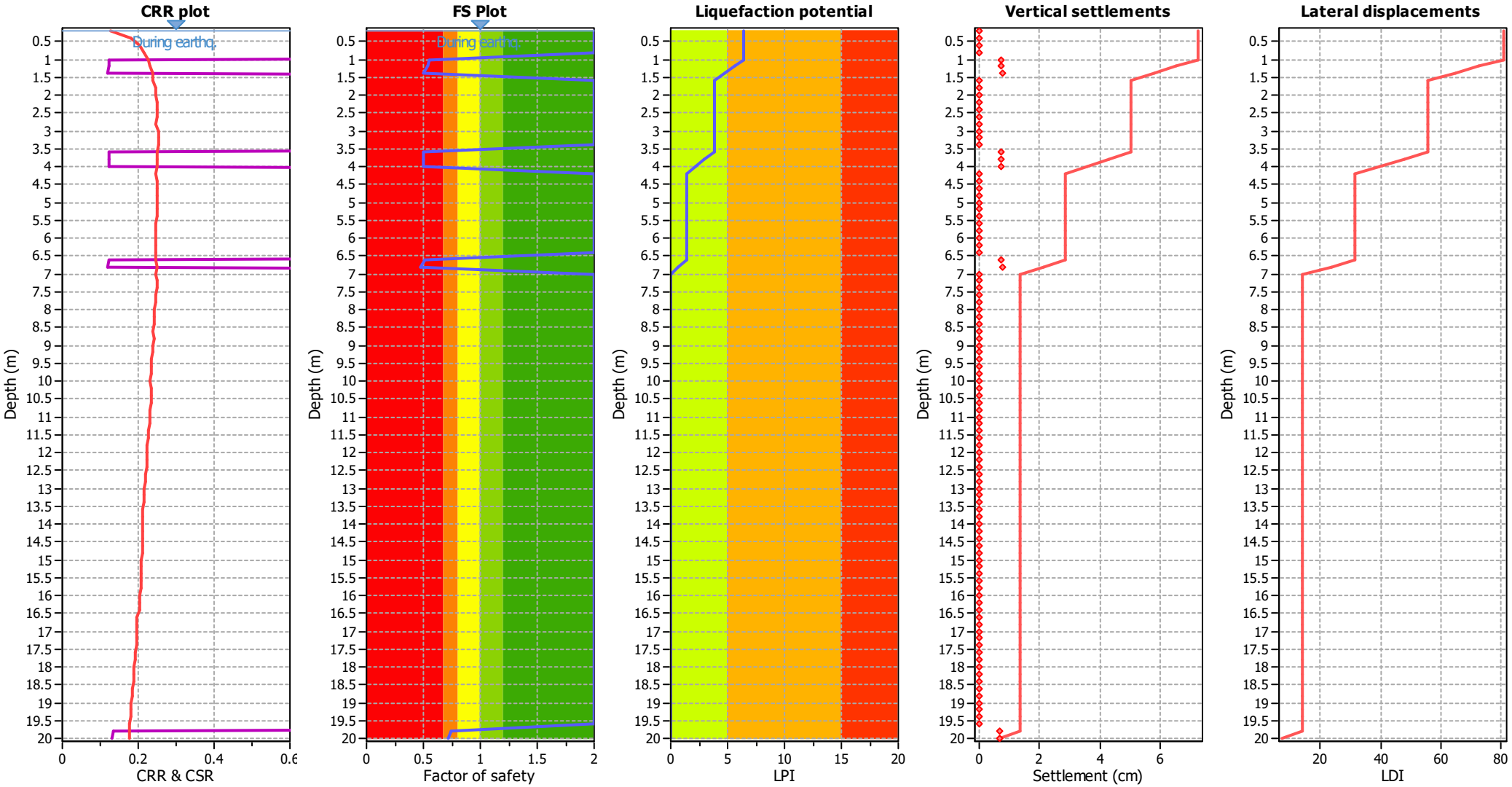






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.55	0.45	0.54	0.20	0.85	1.20	0.54	0.46	0.53	0.20	0.87
1.40	0.50	0.50	0.48	0.20	0.92	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	0.50	0.50	0.48	0.20	0.82
3.80	0.49	0.51	0.47	0.20	0.82	4.00	0.50	0.50	0.48	0.20	0.80
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	0.51	0.49	0.49	0.20	0.66	6.80	0.47	0.53	0.45	0.20	0.70
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	0.75	0.25	1.16	0.20	0.01	20.00	0.72	0.28	1.03	0.20	0.00

Overall liquefaction potential: 6.45

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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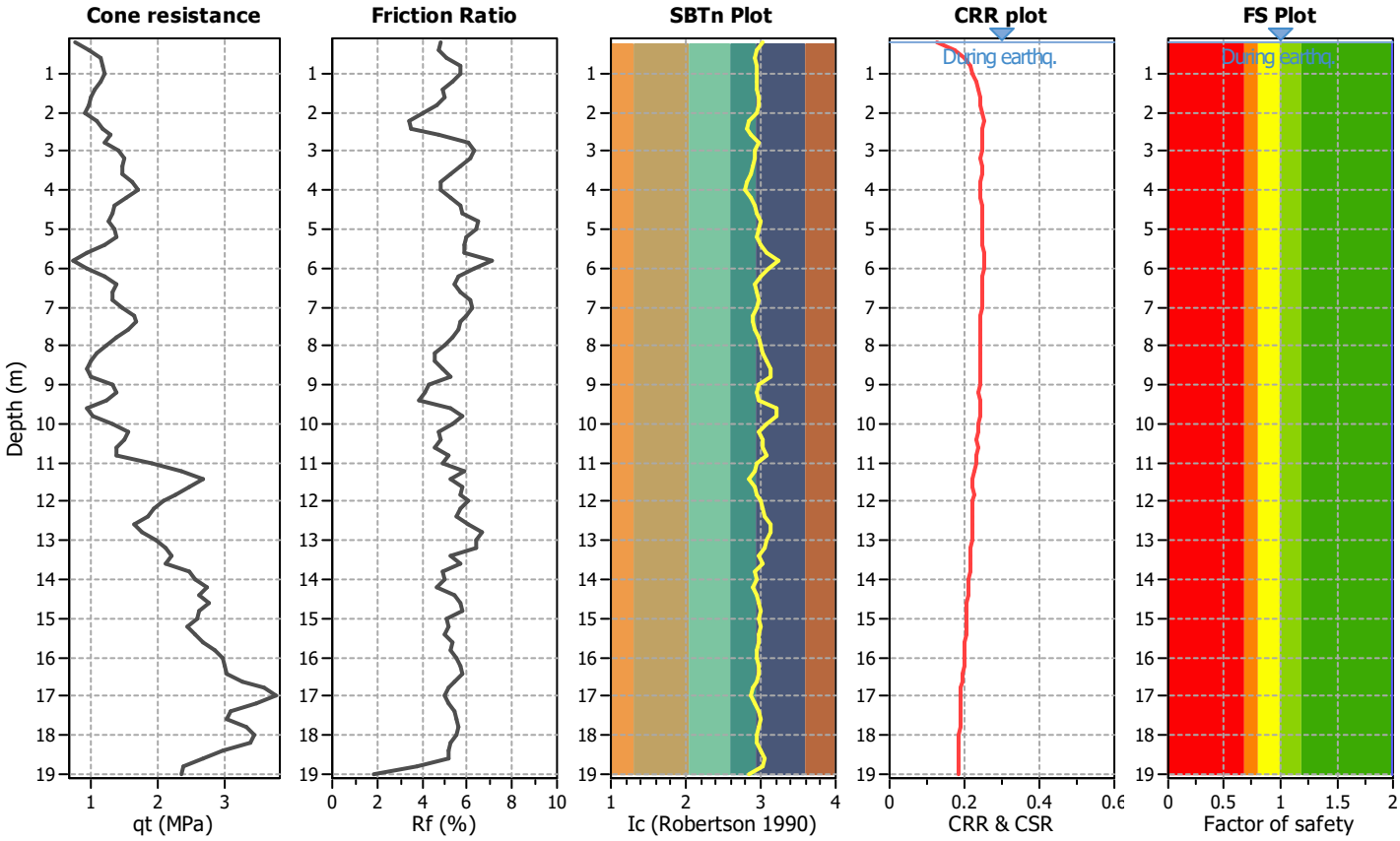
LIQUEFACTION ANALYSIS REPORT

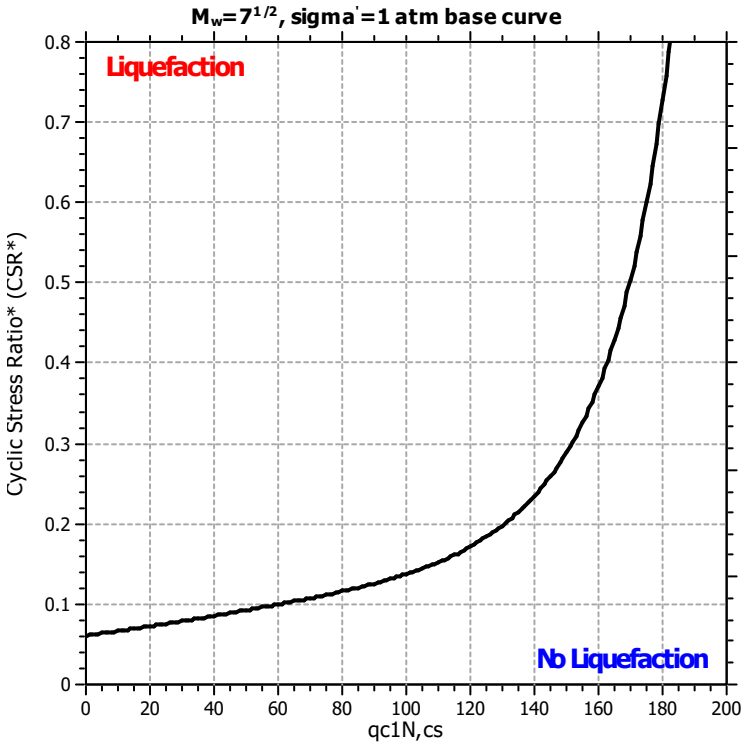
Project title : **Location :**

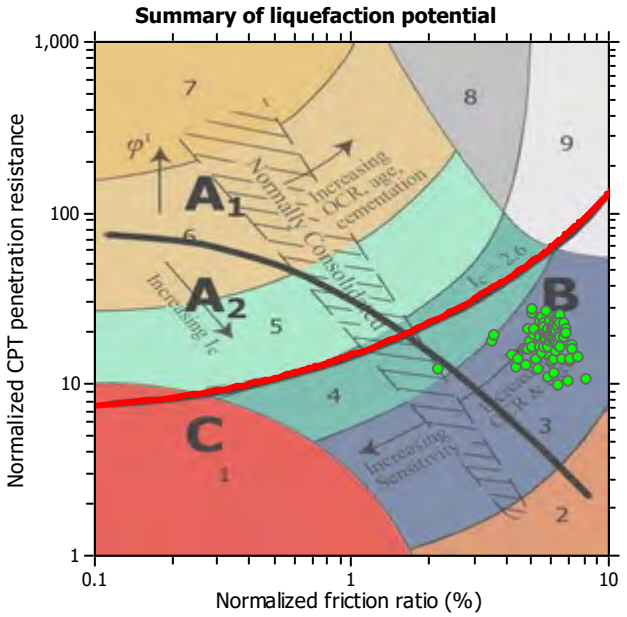
CPT file : SP060

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

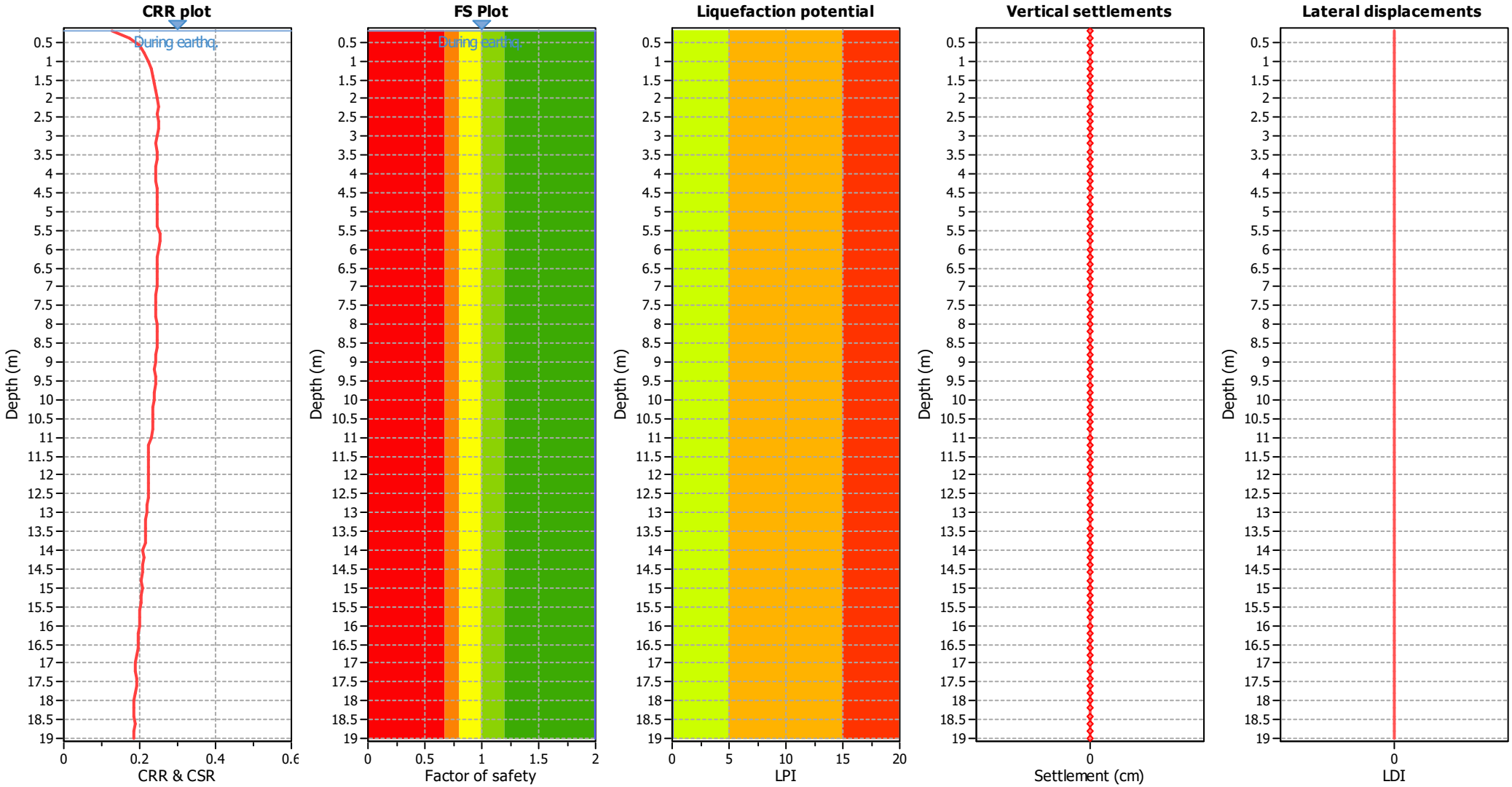






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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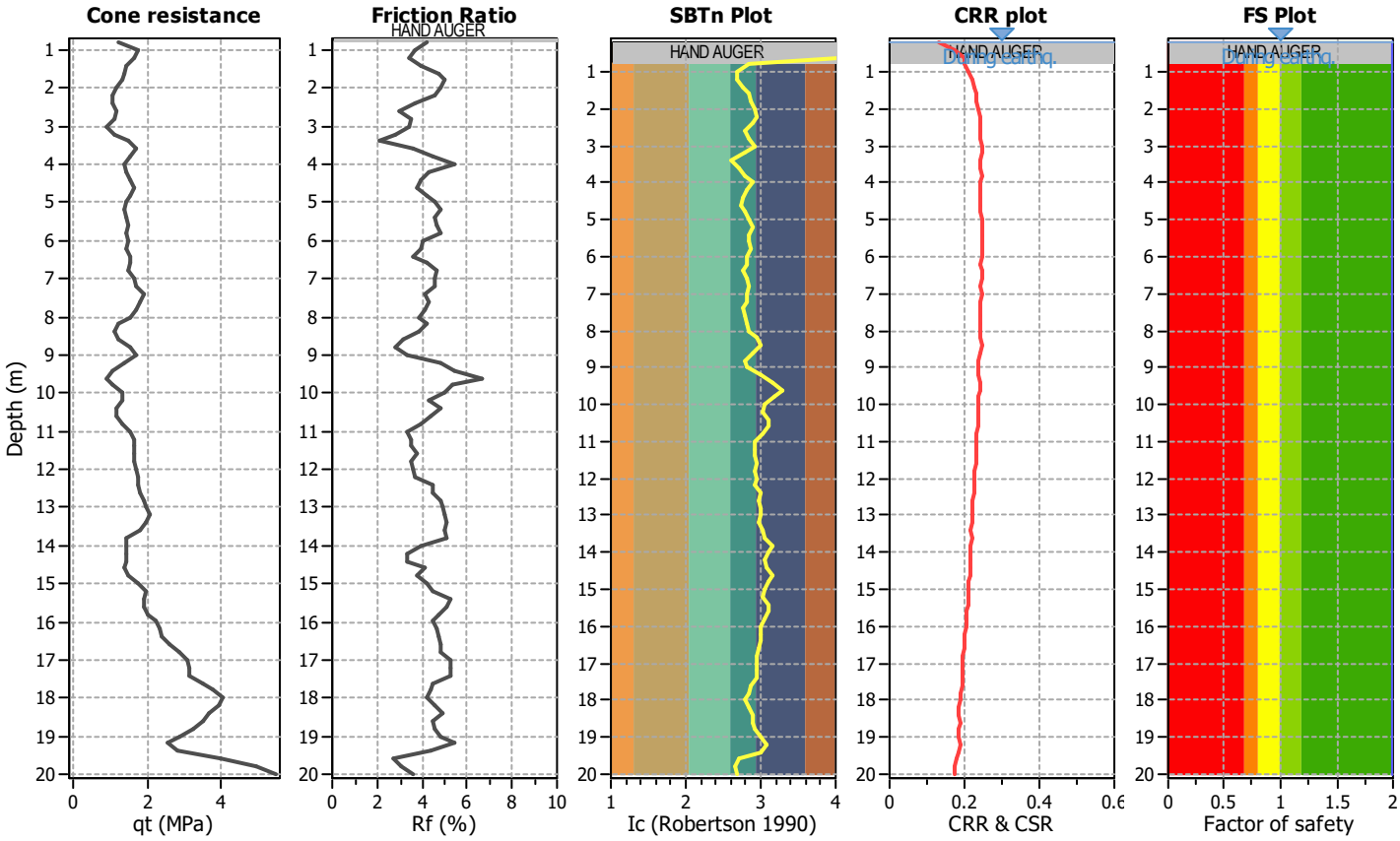
LIQUEFACTION ANALYSIS REPORT

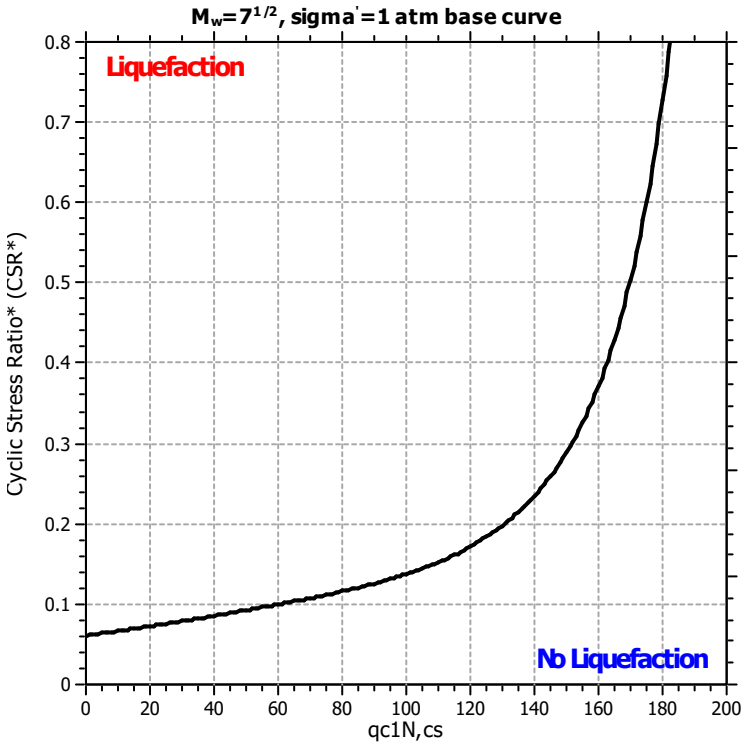
Project title : **Location :**

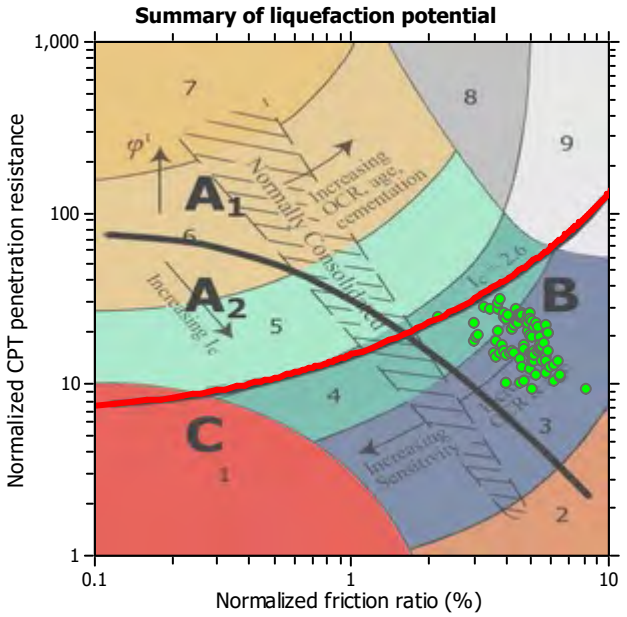
CPT file : SP061

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

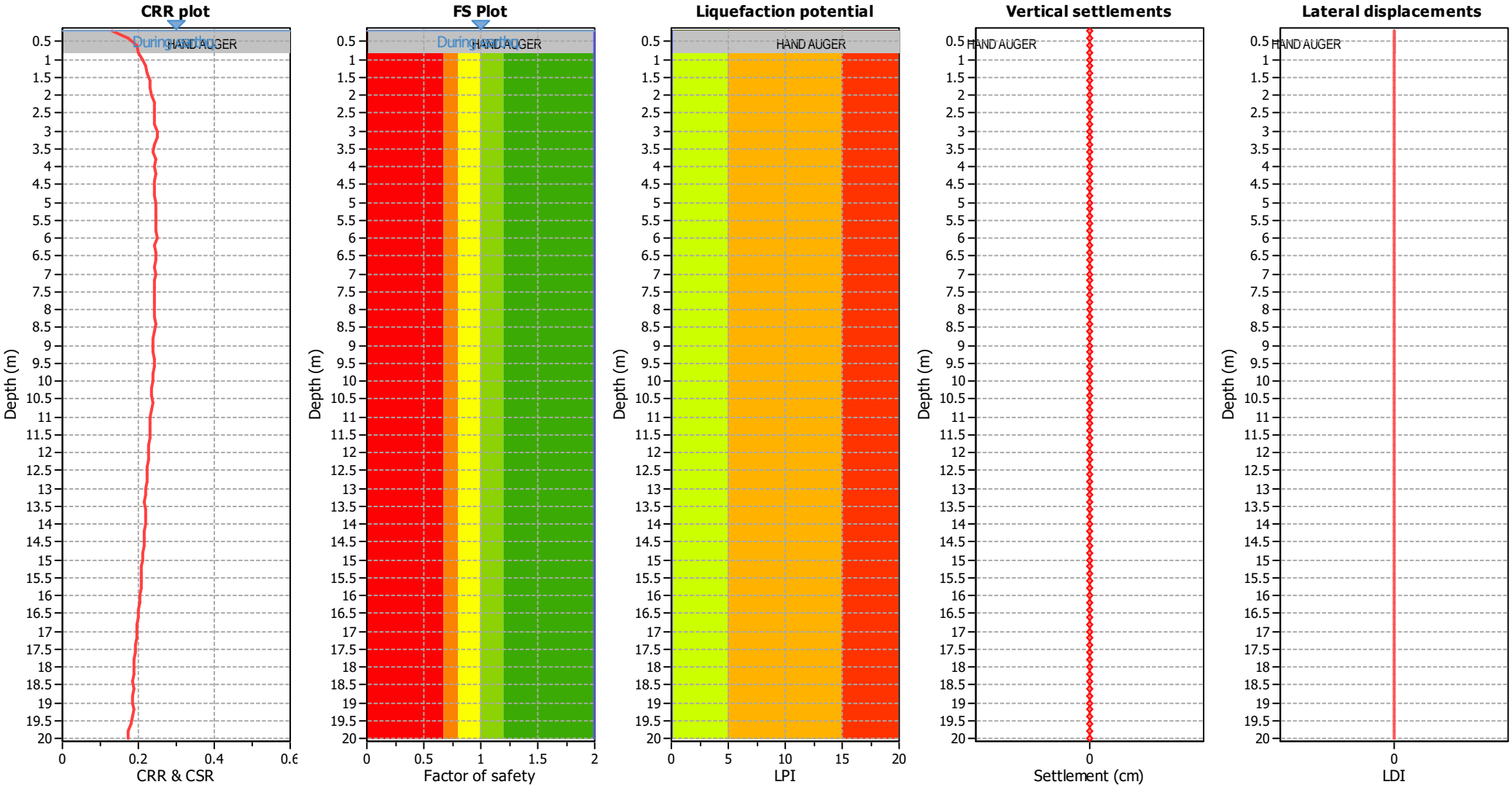






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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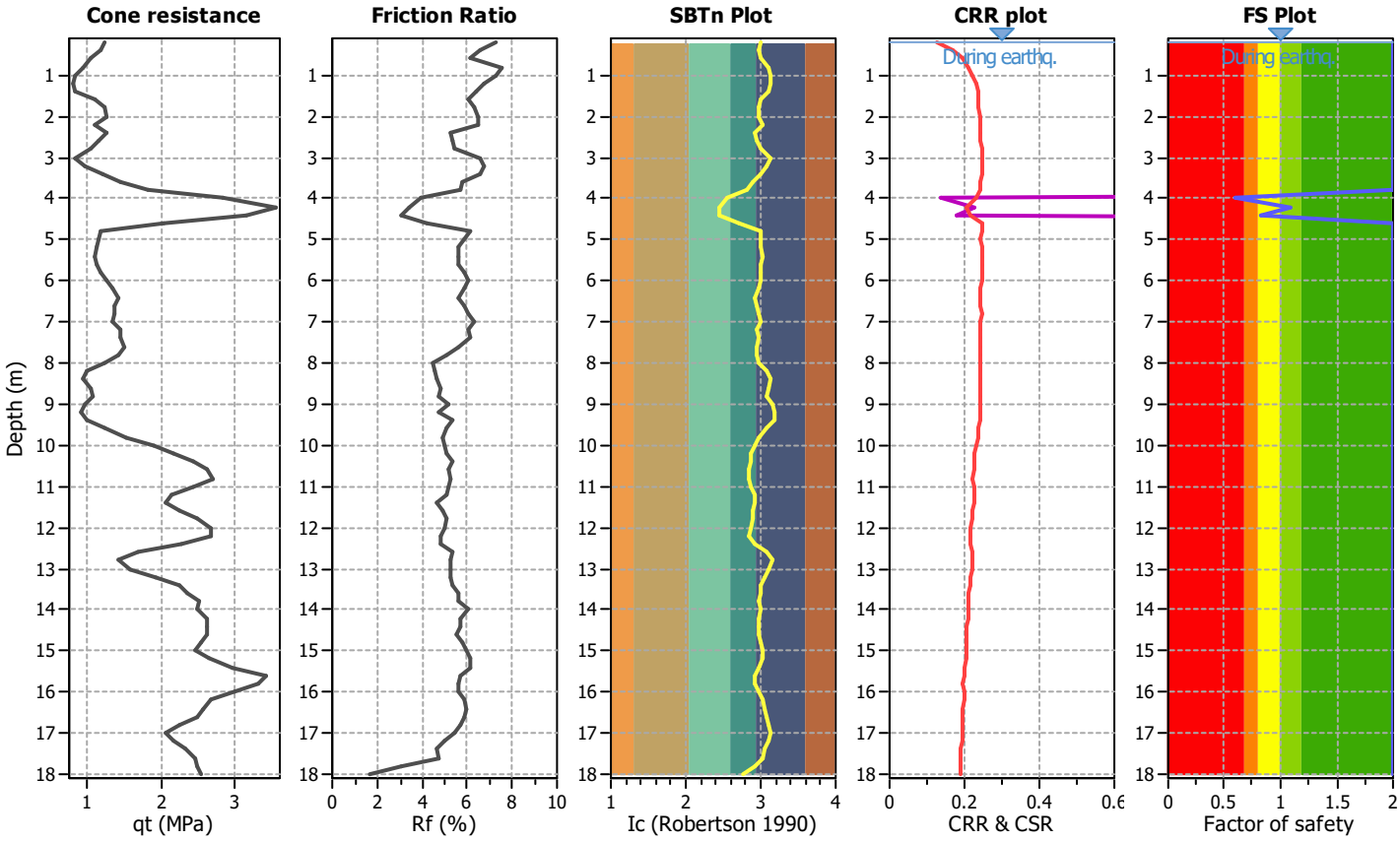
LIQUEFACTION ANALYSIS REPORT

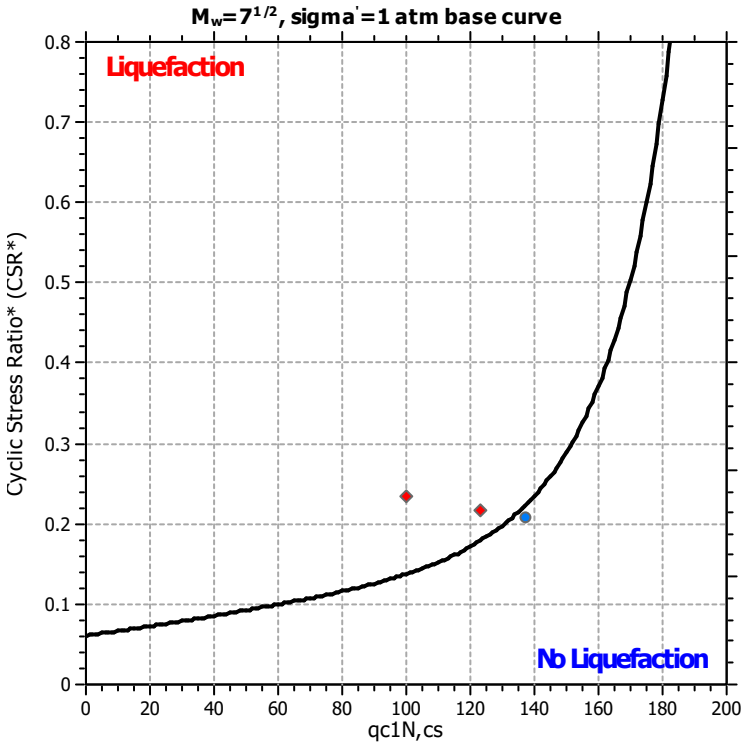
Project title : **Location :**

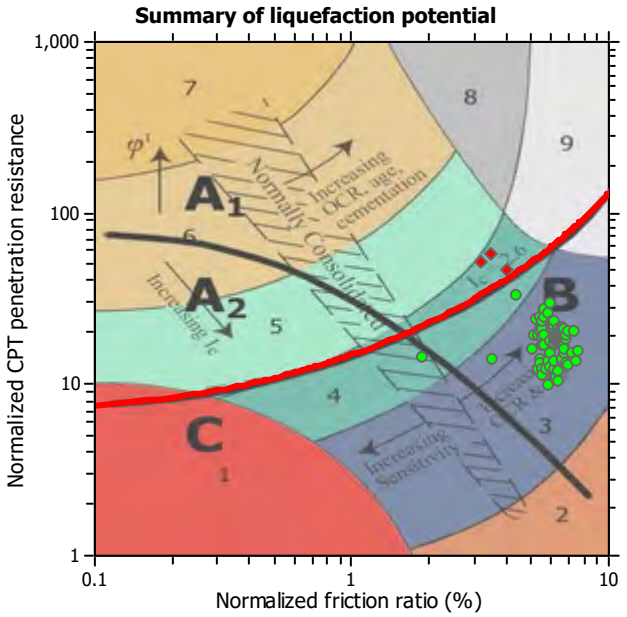
CPT file : SP062

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

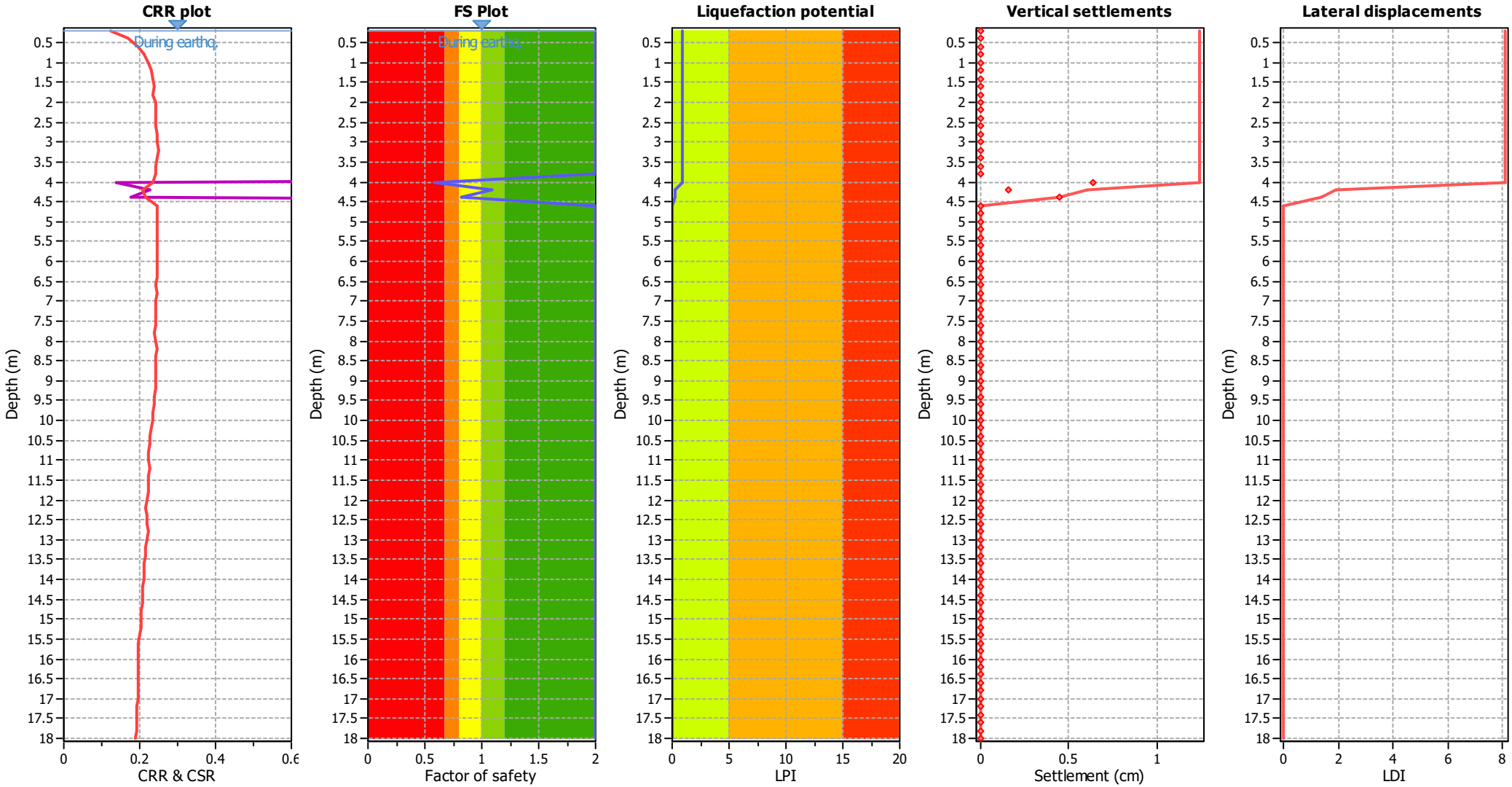






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.59	0.41	0.61	0.20	0.66
4.20	1.09	0.00	0.00	0.20	0.00	4.40	0.83	0.17	2.07	0.20	0.27
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 0.93

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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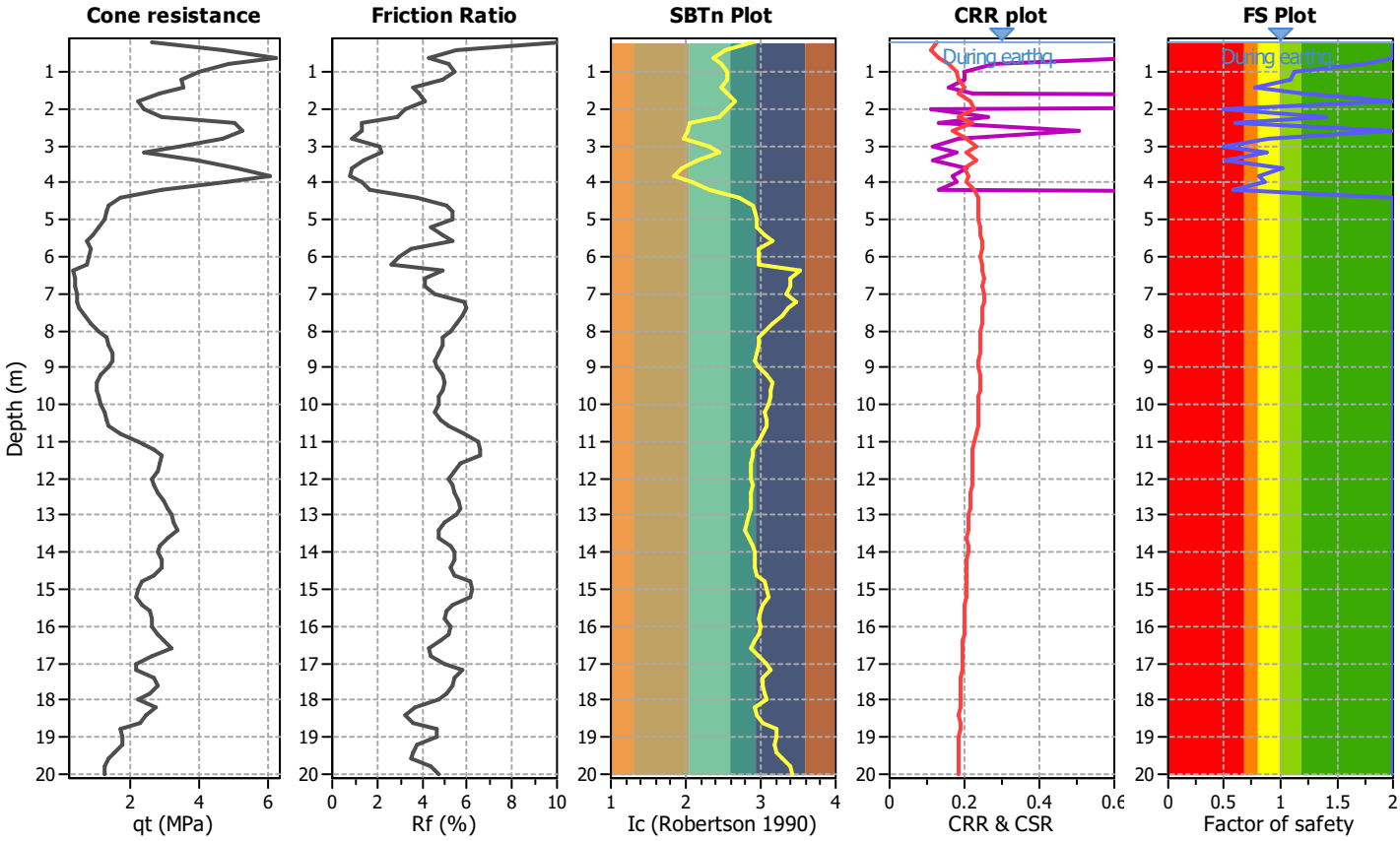
LIQUEFACTION ANALYSIS REPORT

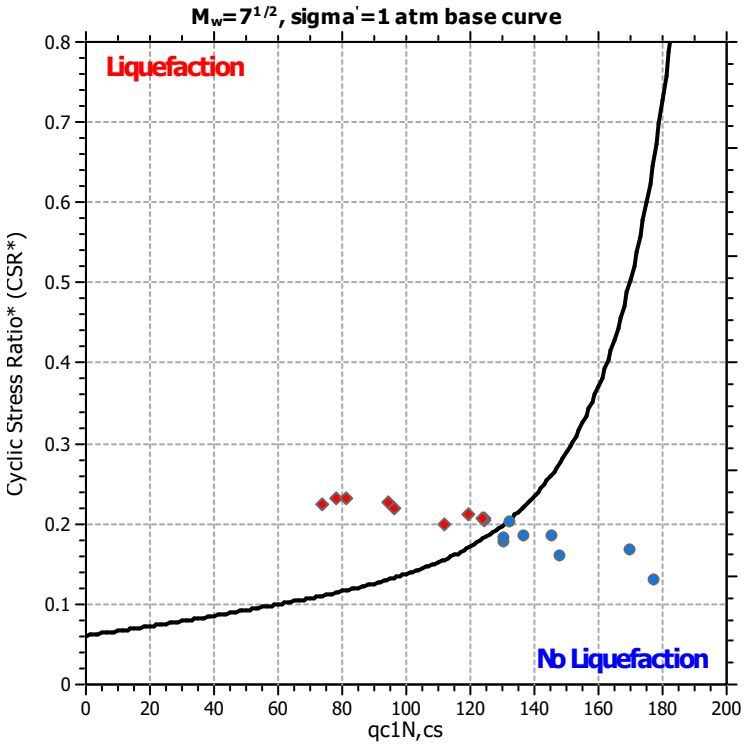
Project title : **Location :**

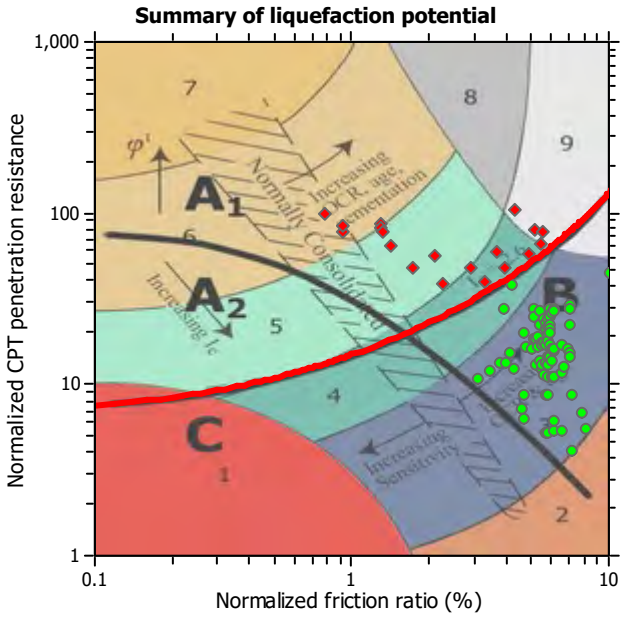
CPT file : SP063

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

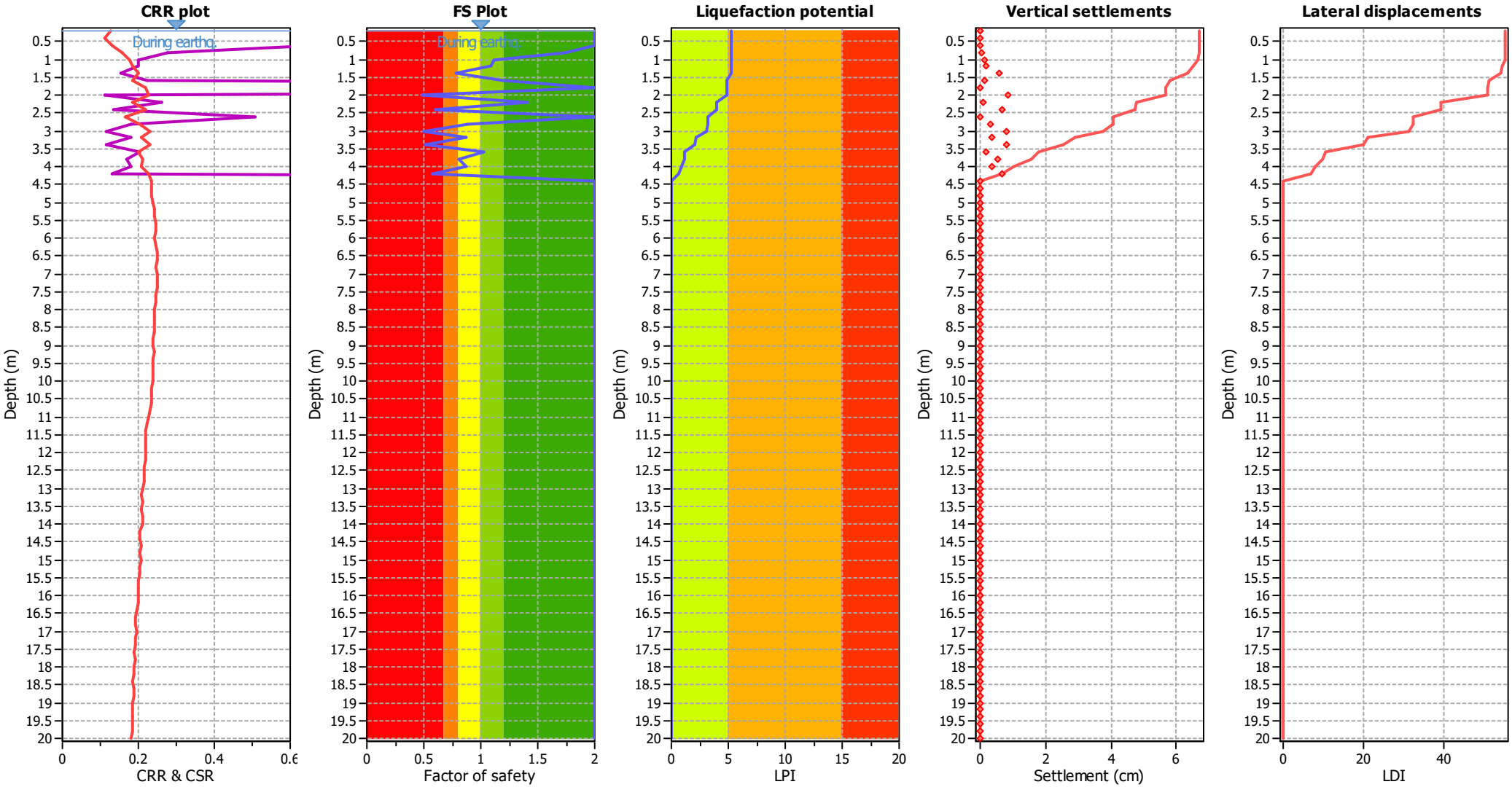






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	1.75	0.00	0.00	0.20	0.00
1.00	1.12	0.00	0.00	0.20	0.00	1.20	1.09	0.00	0.00	0.20	0.00
1.40	0.78	0.00	0.00	0.20	0.41	1.60	1.20	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	0.49	0.00	0.00	0.20	0.92
2.20	1.41	0.00	0.00	0.20	0.00	2.40	0.61	0.00	0.00	0.20	0.70
2.60	2.00	0.00	0.00	0.20	0.00	2.80	0.89	0.00	0.00	0.20	0.19
3.00	0.50	0.50	0.47	0.20	0.86	3.20	0.88	0.00	0.00	0.20	0.21
3.40	0.51	0.49	0.49	0.20	0.82	3.60	1.02	0.00	0.00	0.20	0.00
3.80	0.81	0.00	0.00	0.20	0.32	4.00	0.87	0.00	0.00	0.20	0.21
4.20	0.58	0.42	0.59	0.20	0.67	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 5.29

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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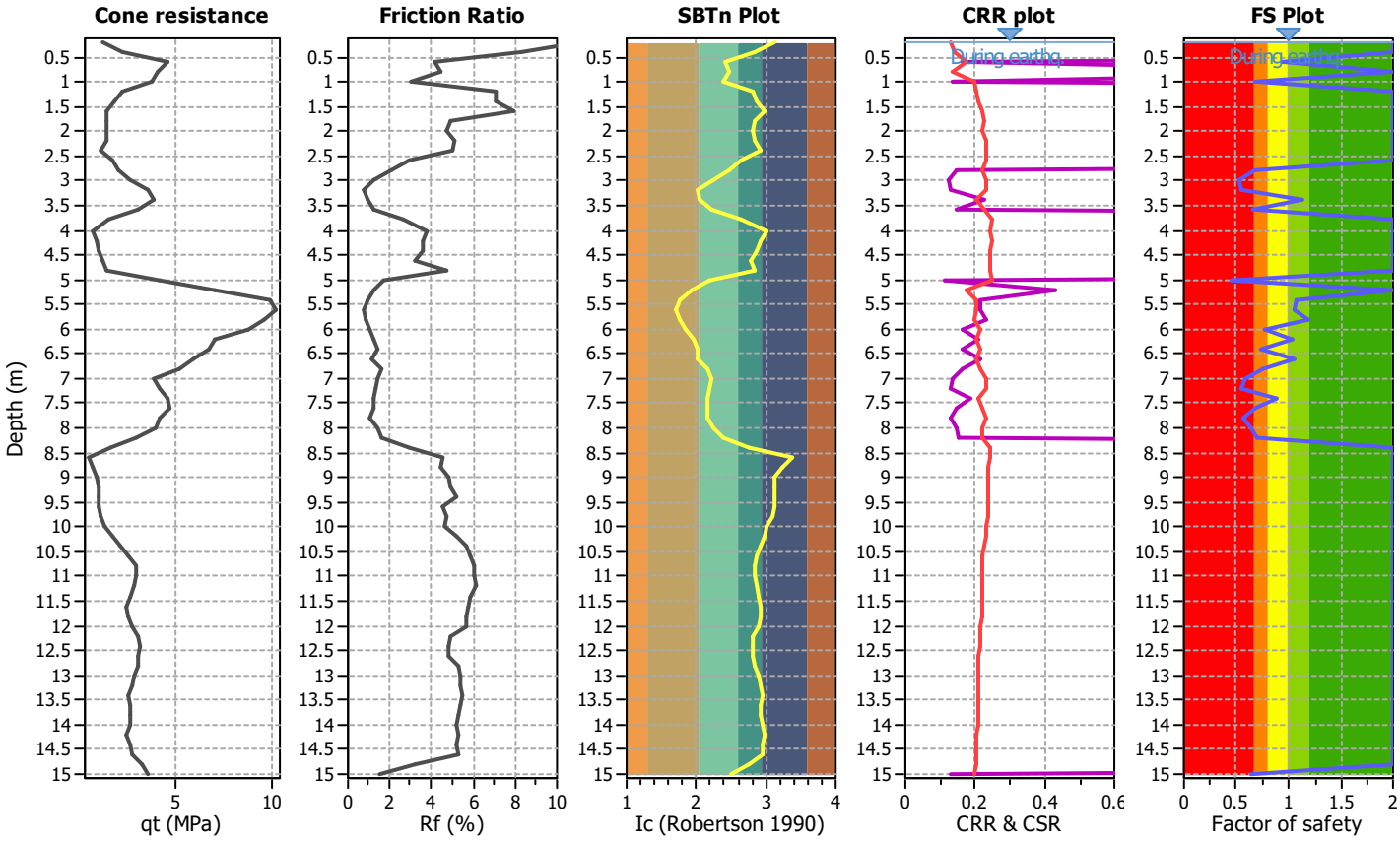
LIQUEFACTION ANALYSIS REPORT

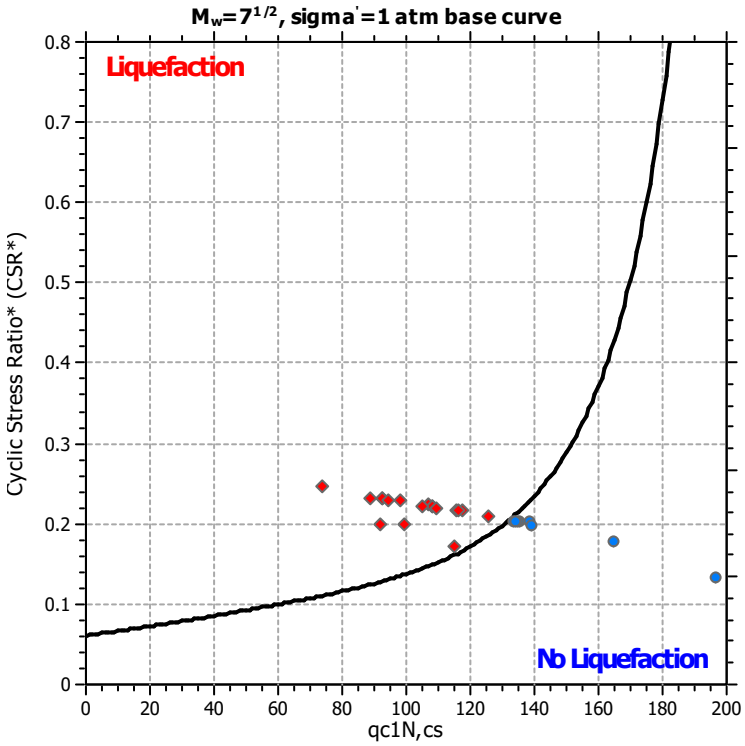
Project title : **Location :**

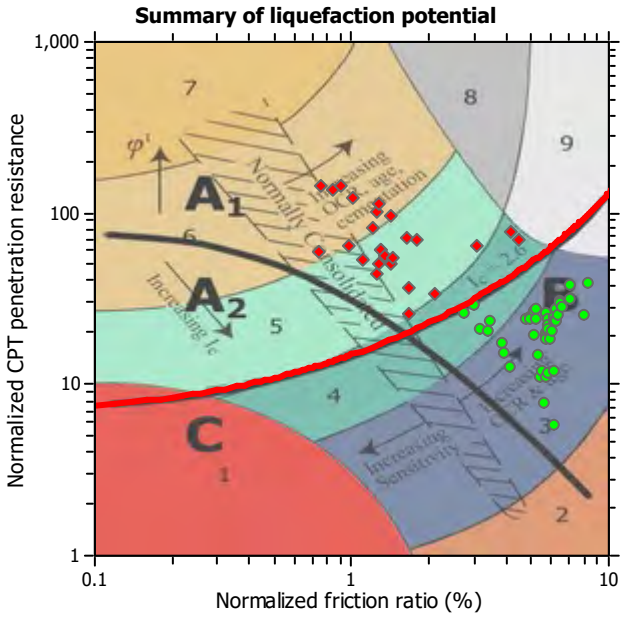
CPT file : SP064

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

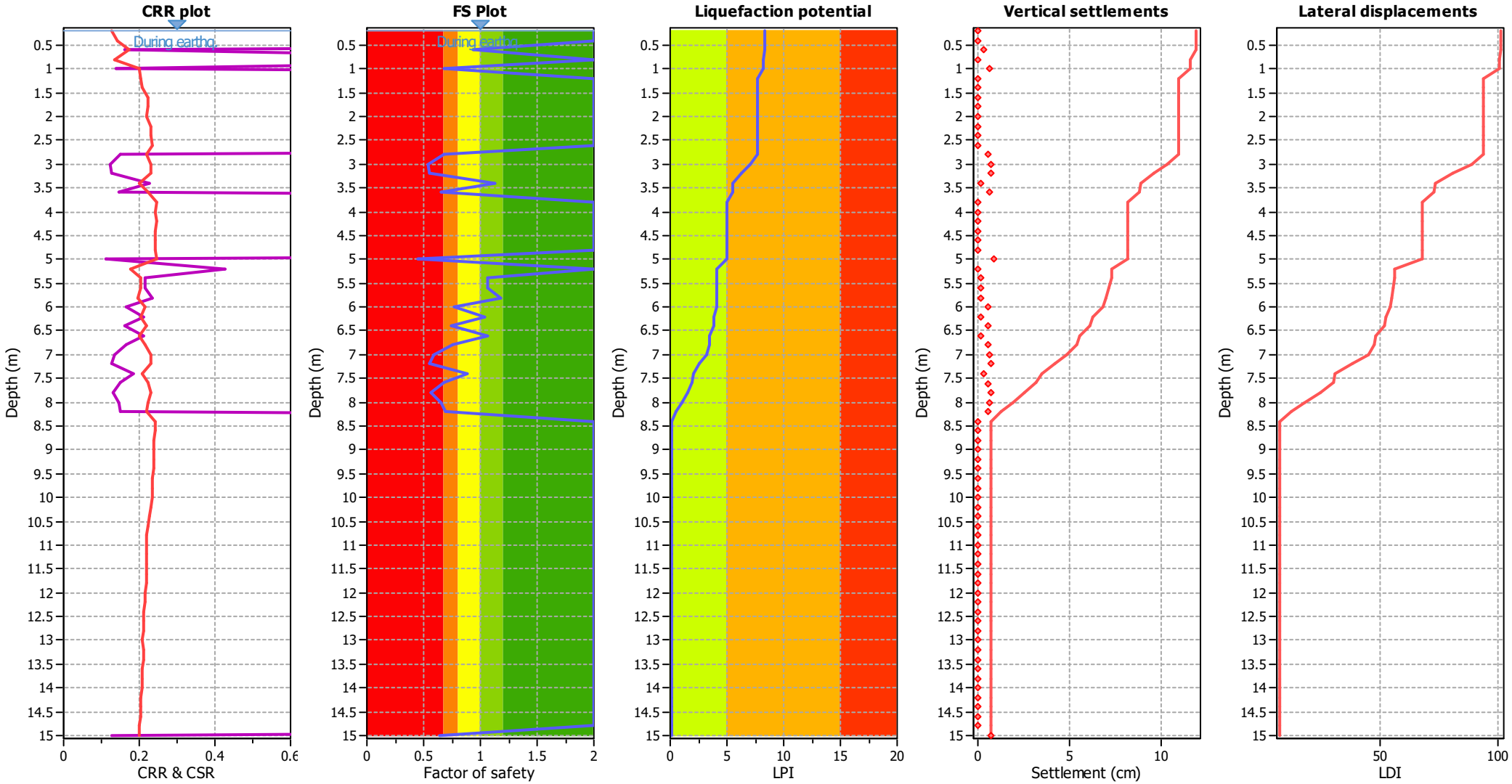






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.93	0.00	0.00	0.20	0.13	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.68	0.00	0.00	0.20	0.60	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	0.67	0.33	0.82	0.20	0.56
3.00	0.53	0.47	0.52	0.20	0.79	3.20	0.56	0.44	0.55	0.20	0.75
3.40	1.13	0.00	0.00	0.20	0.00	3.60	0.66	0.34	0.76	0.20	0.56
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	0.45	0.55	0.43	0.20	0.83	5.20	2.00	0.00	0.00	0.20	0.00
5.40	1.07	0.00	0.00	0.20	0.00	5.60	1.06	0.00	0.00	0.20	0.00
5.80	1.18	0.00	0.00	0.20	0.00	6.00	0.77	0.00	0.00	0.20	0.33
6.20	1.04	0.00	0.00	0.20	0.00	6.40	0.75	0.00	0.00	0.20	0.35
6.60	1.06	0.00	0.00	0.20	0.00	6.80	0.76	0.00	0.00	0.20	0.32
7.00	0.59	0.41	0.61	0.20	0.54	7.20	0.55	0.45	0.55	0.20	0.57
7.40	0.89	0.00	0.00	0.20	0.14	7.60	0.68	0.32	0.83	0.20	0.40
7.80	0.57	0.43	0.57	0.20	0.53	8.00	0.65	0.35	0.74	0.20	0.42
8.20	0.69	0.31	0.88	0.20	0.36	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	0.64	0.36	0.72	0.20	0.18						

Overall liquefaction potential: 8.37

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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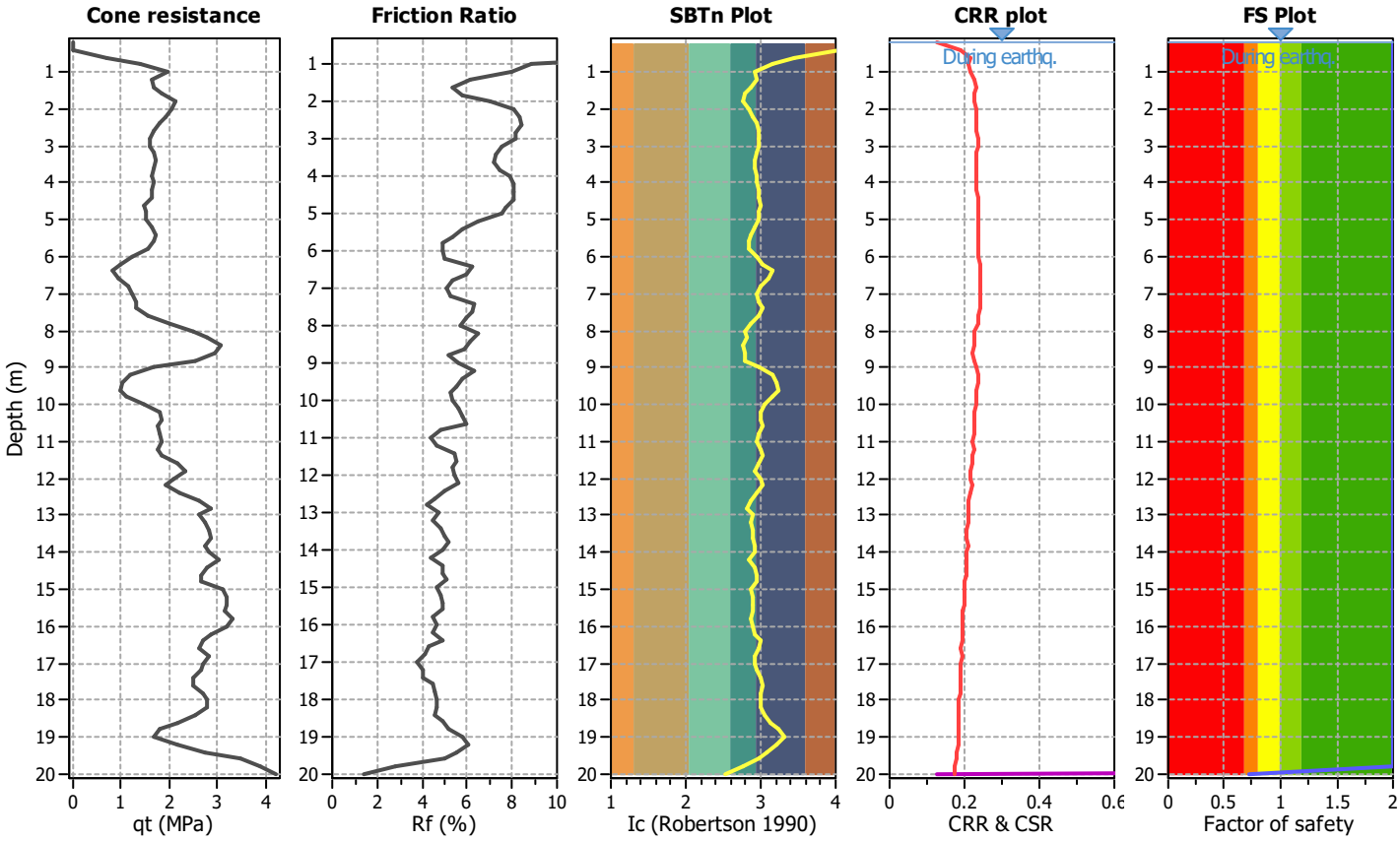
LIQUEFACTION ANALYSIS REPORT

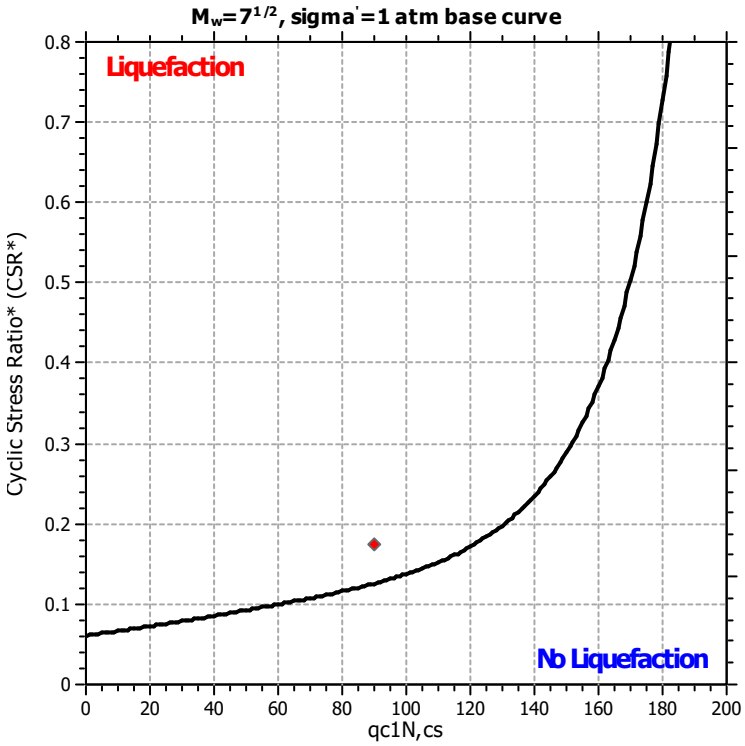
Project title : **Location :**

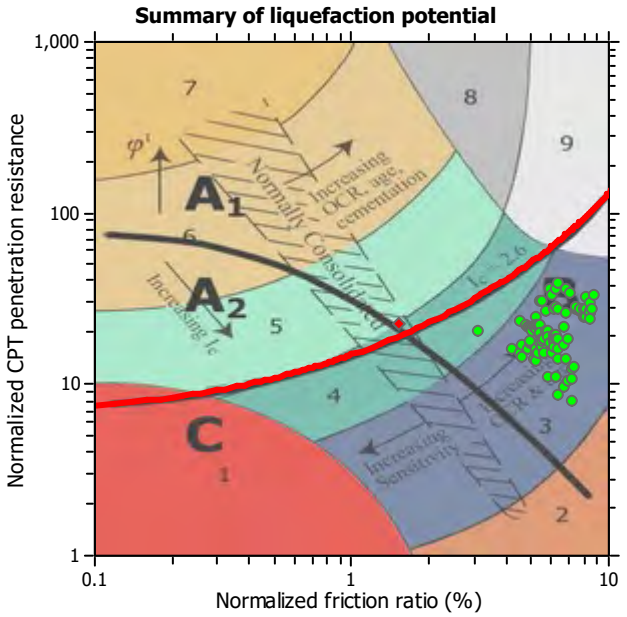
CPT file : SP065

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

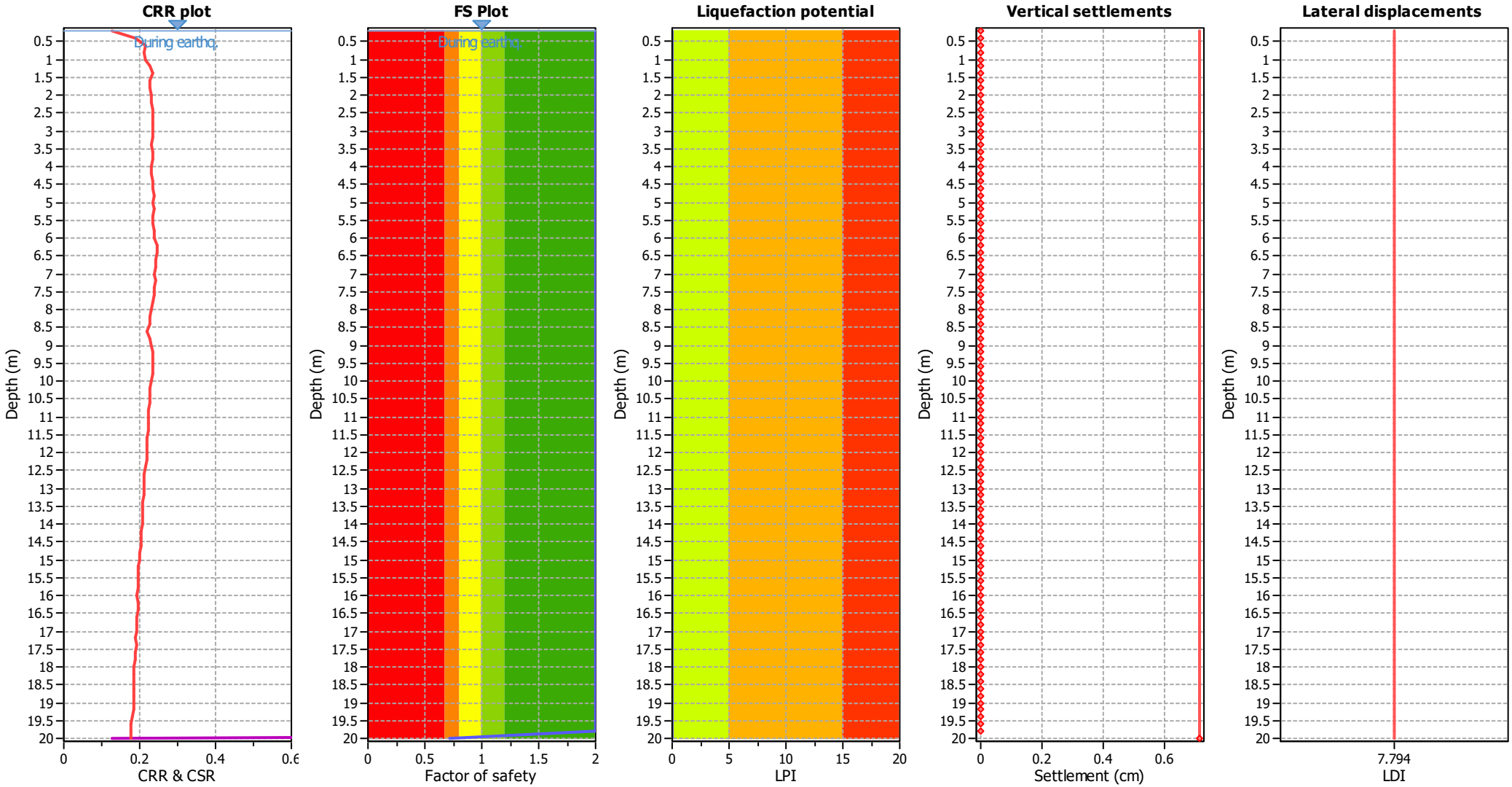






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	0.72	0.28	1.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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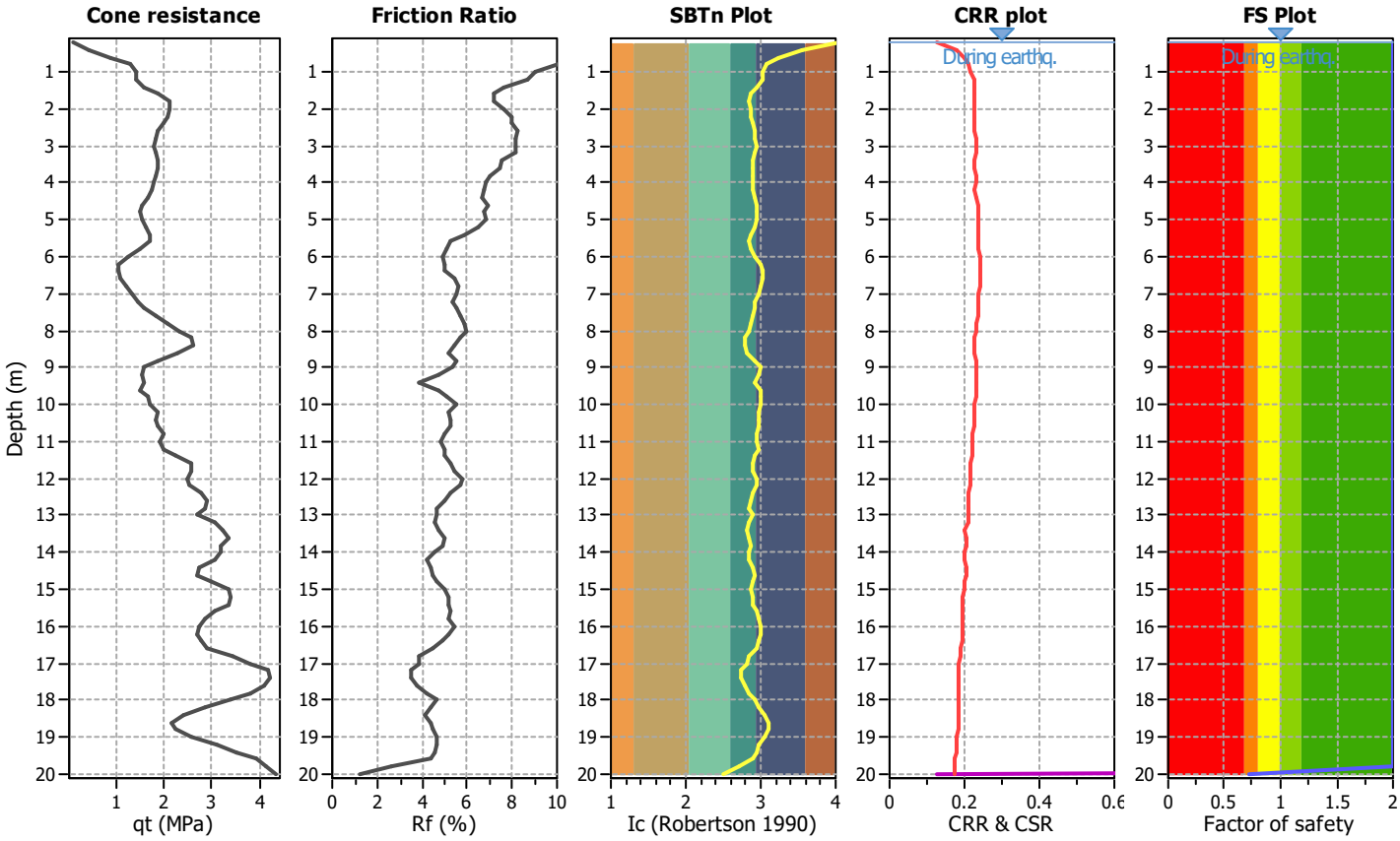
LIQUEFACTION ANALYSIS REPORT

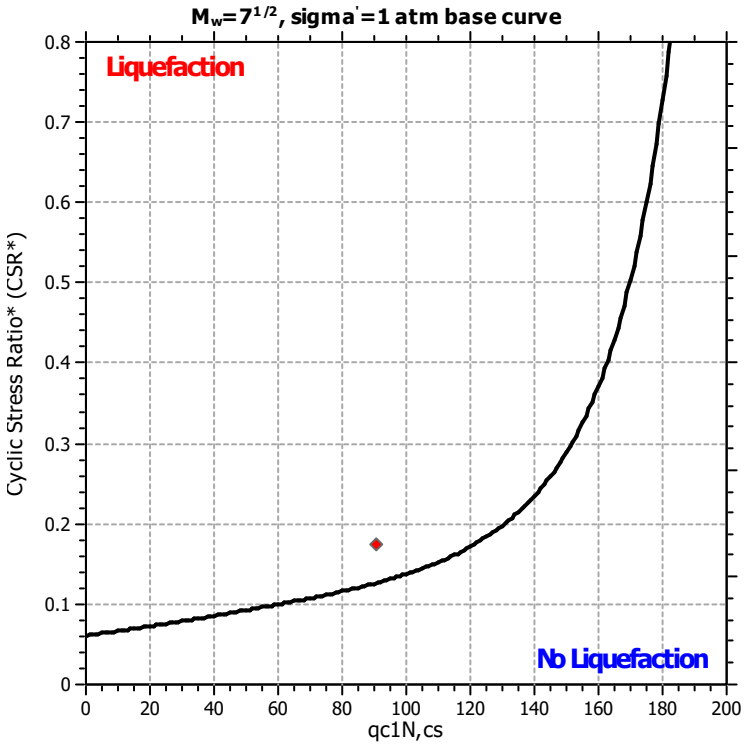
Project title : **Location :**

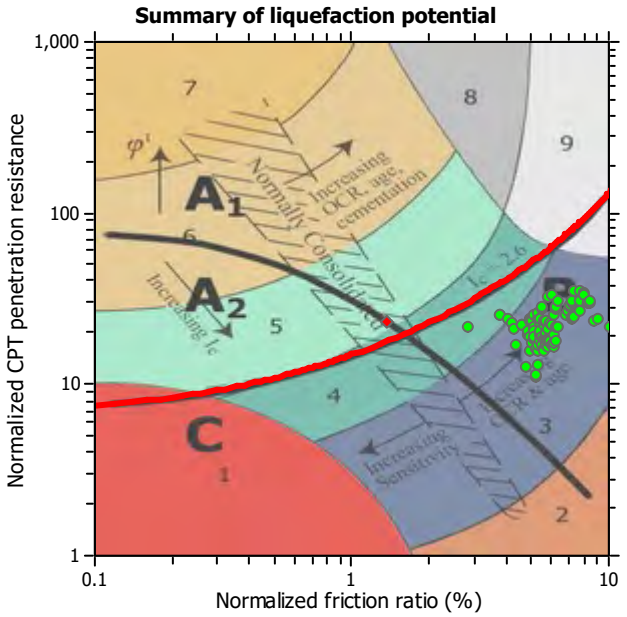
CPT file : SP066

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

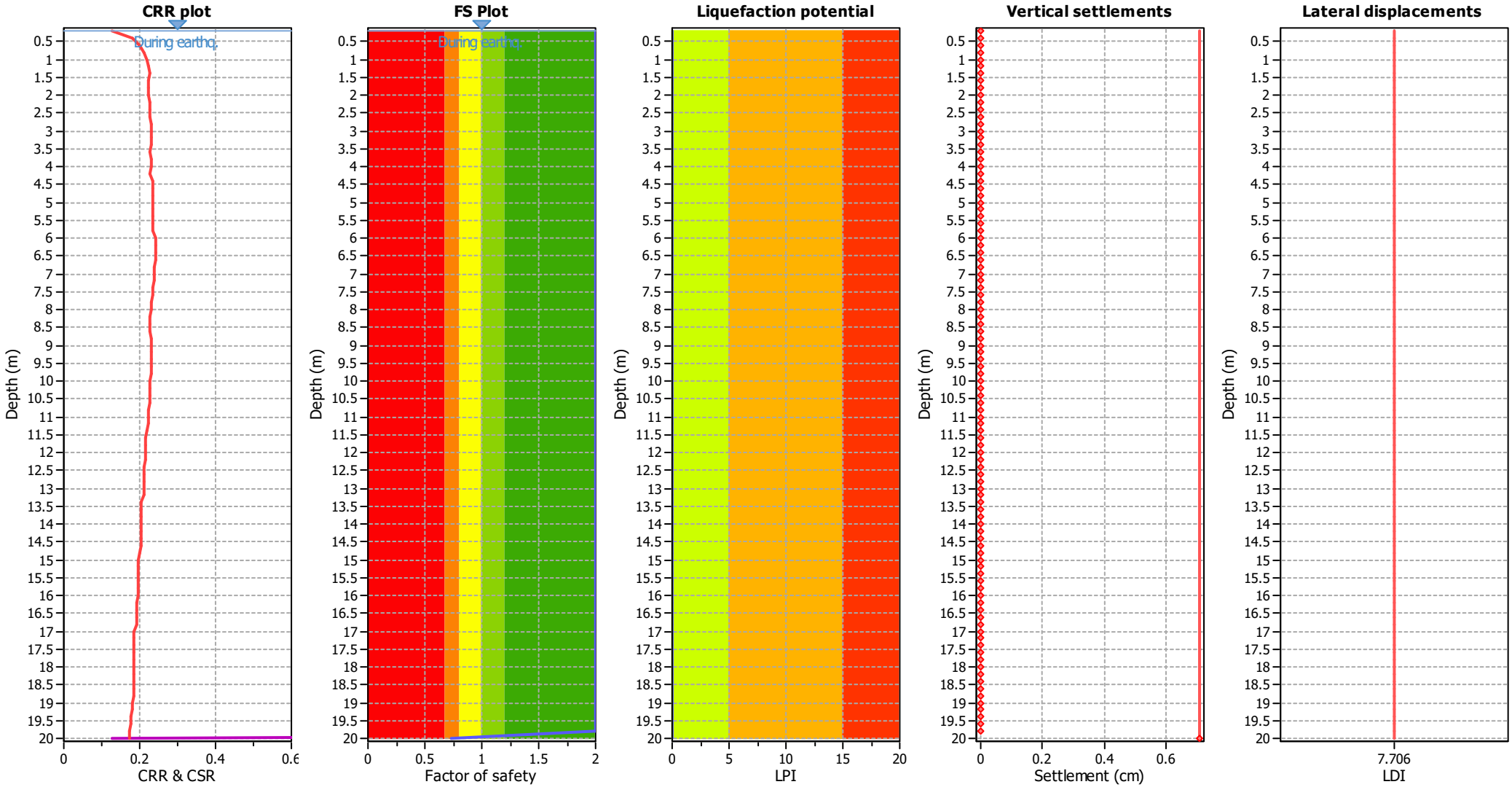






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	0.73	0.27	1.04	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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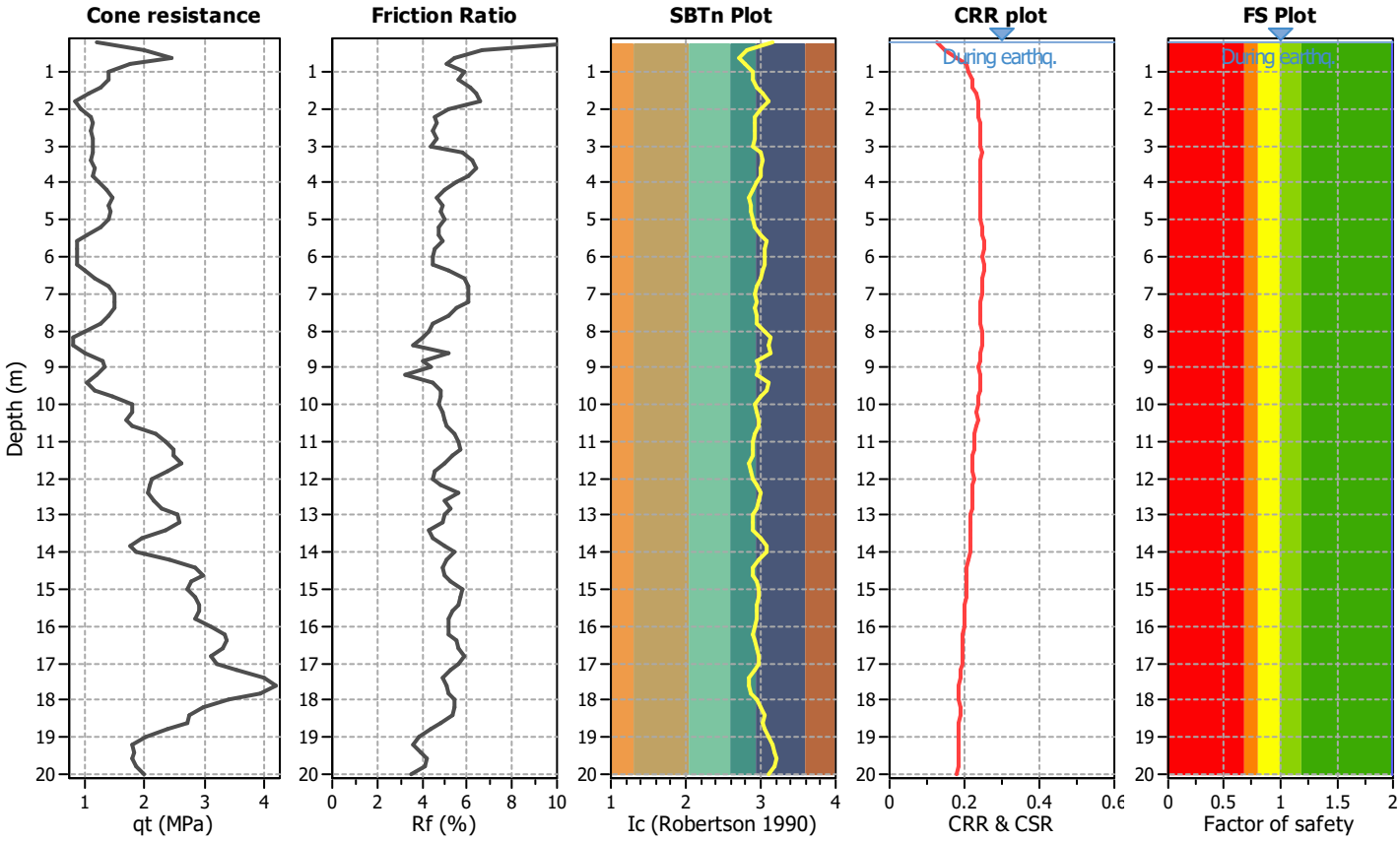
LIQUEFACTION ANALYSIS REPORT

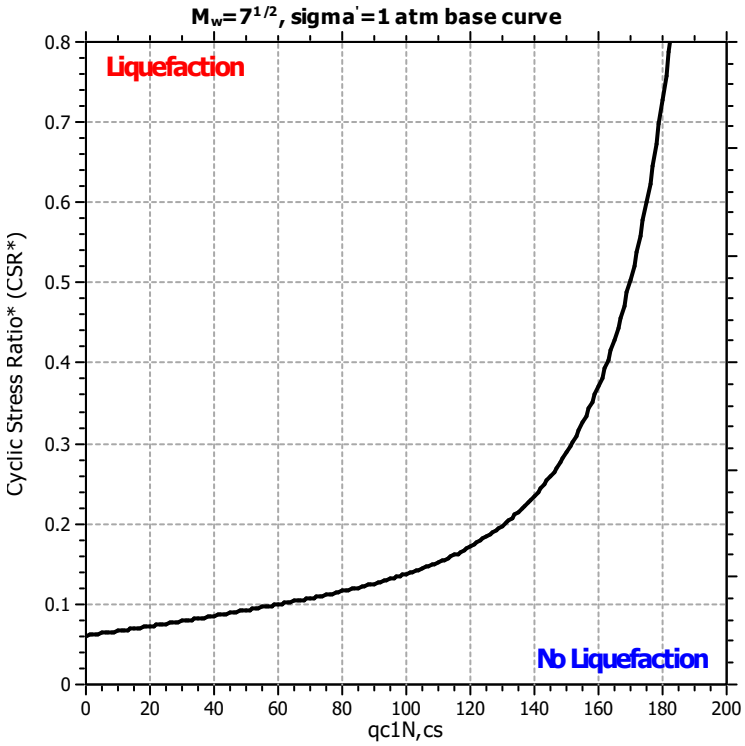
Project title : **Location :**

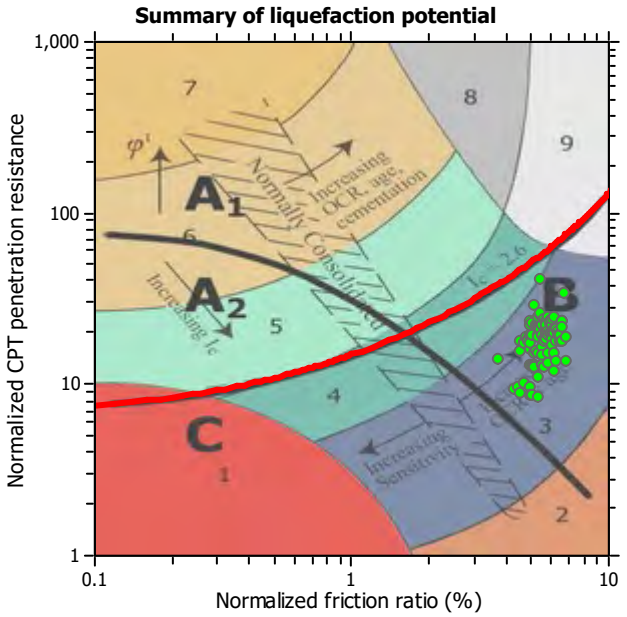
CPT file : SP067

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

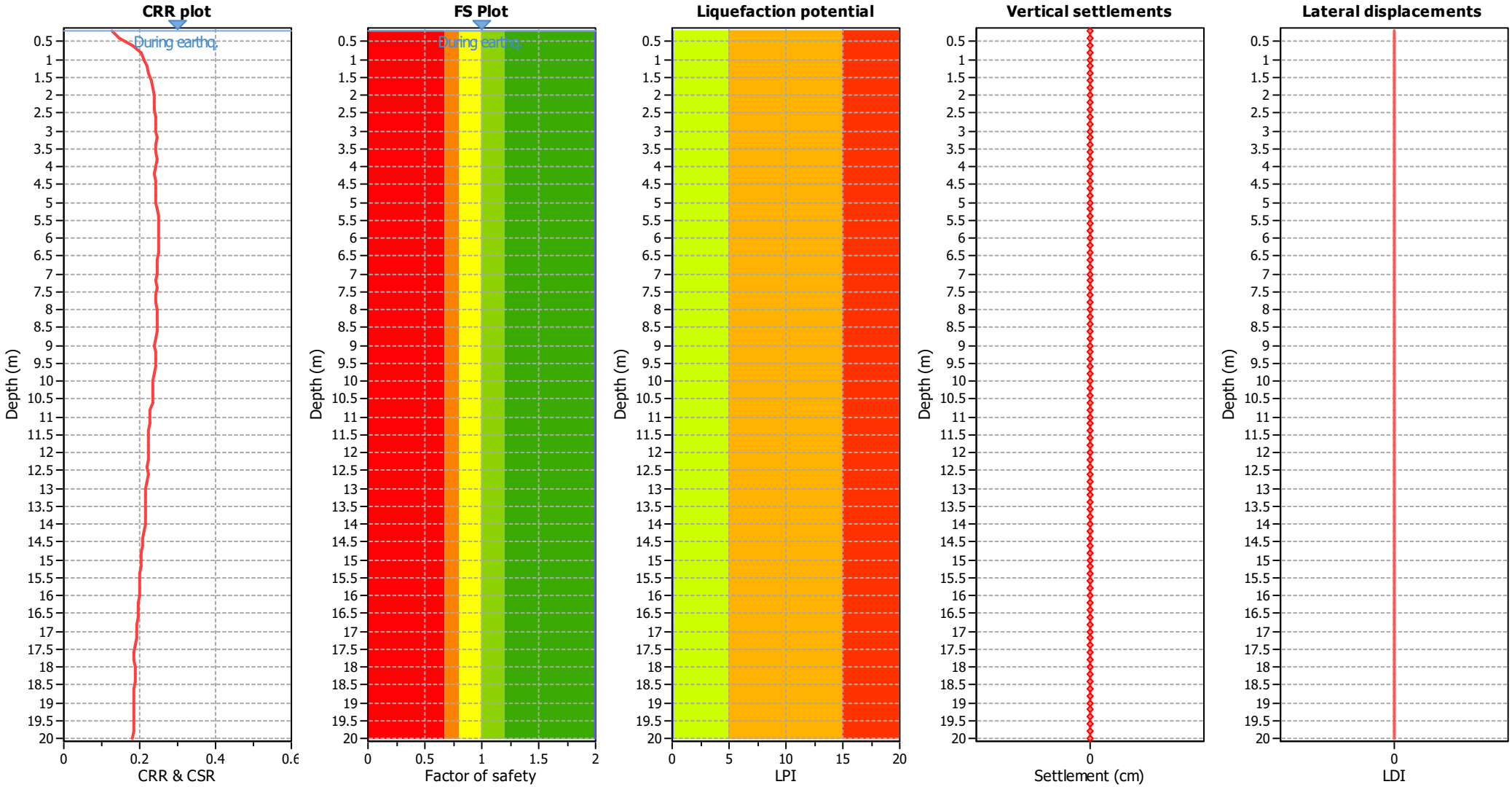






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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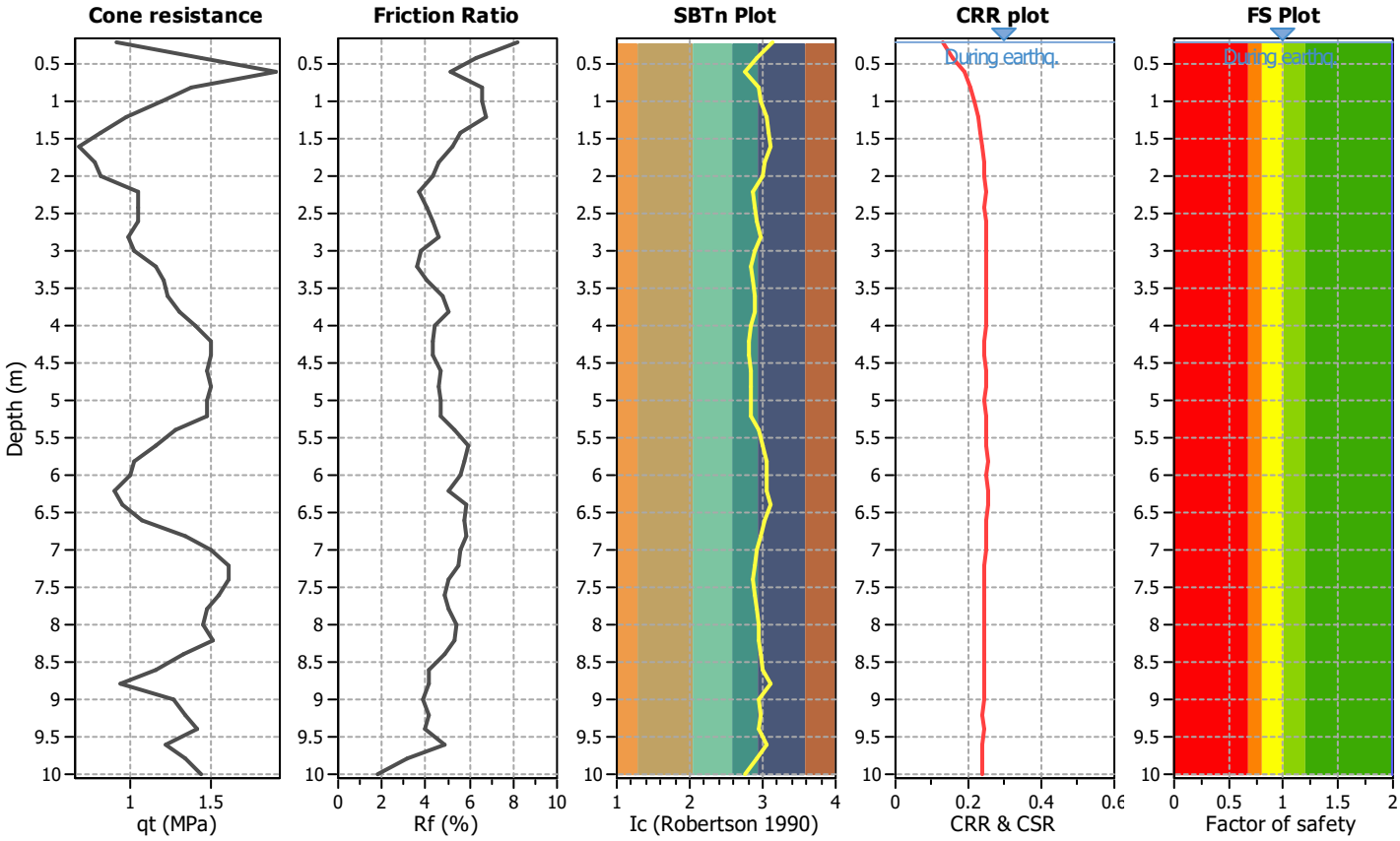
LIQUEFACTION ANALYSIS REPORT

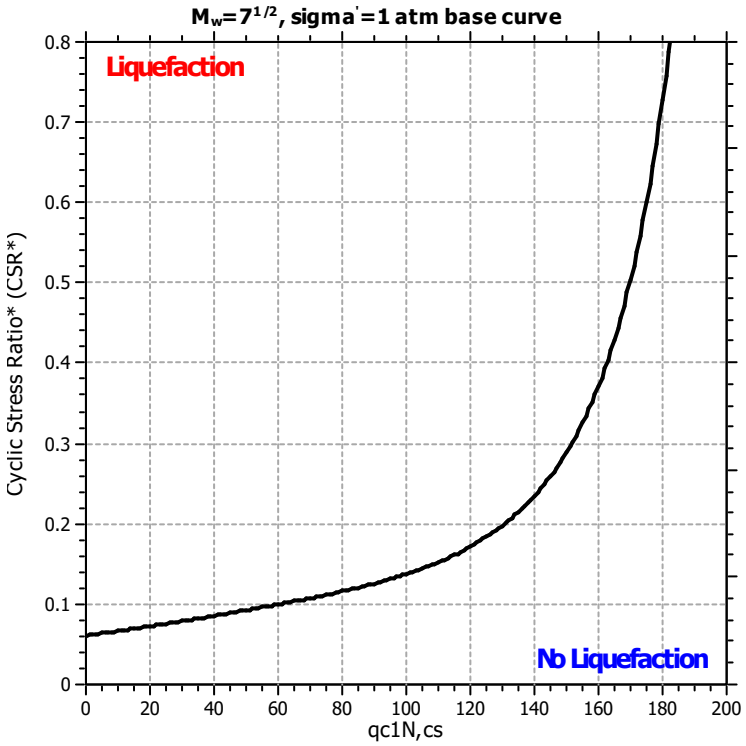
Project title : **Location :**

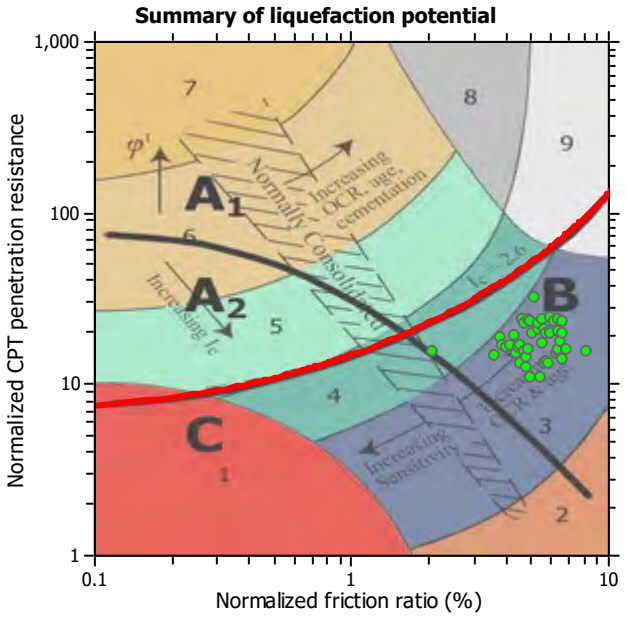
CPT file : SP068

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

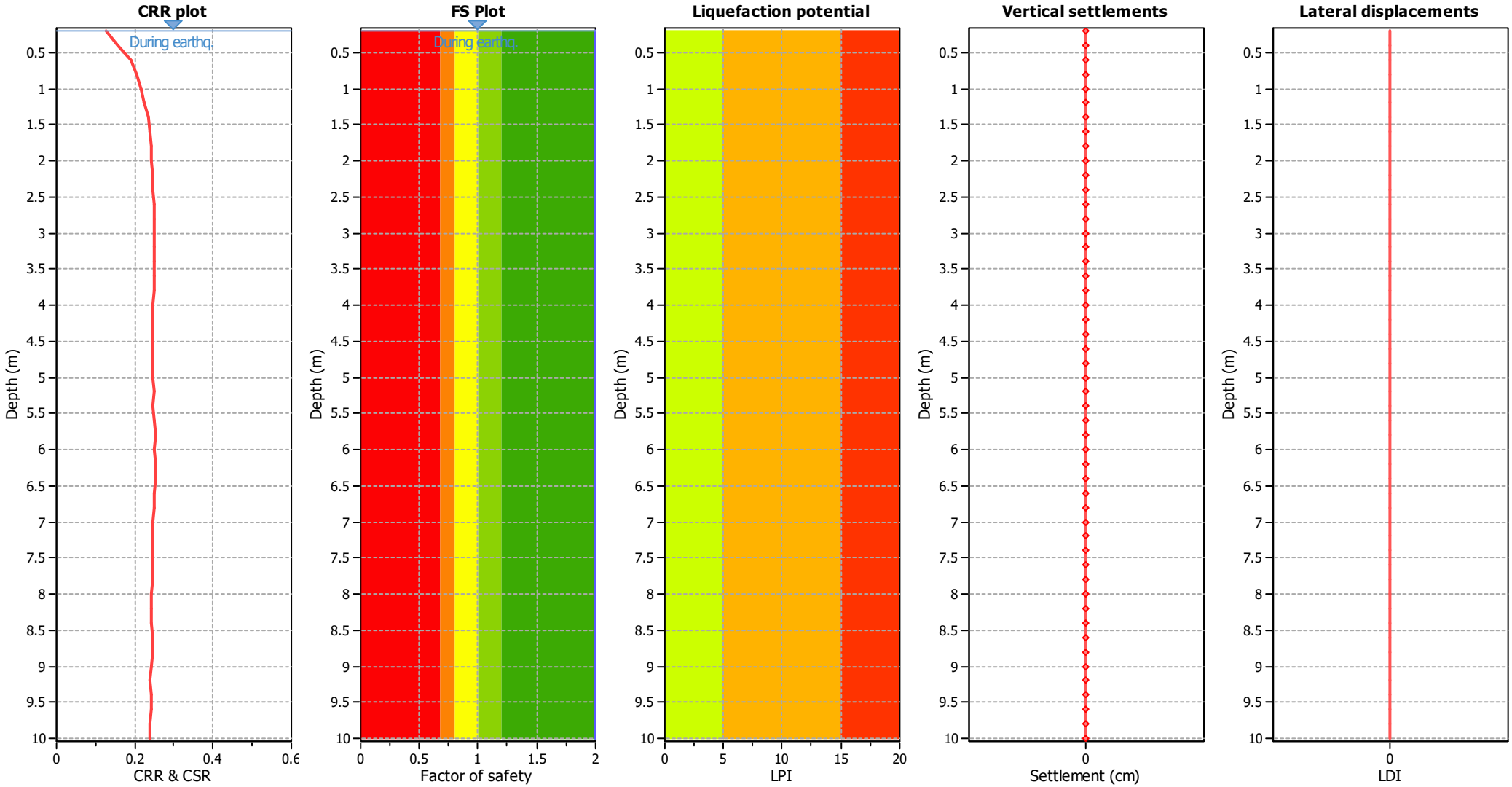






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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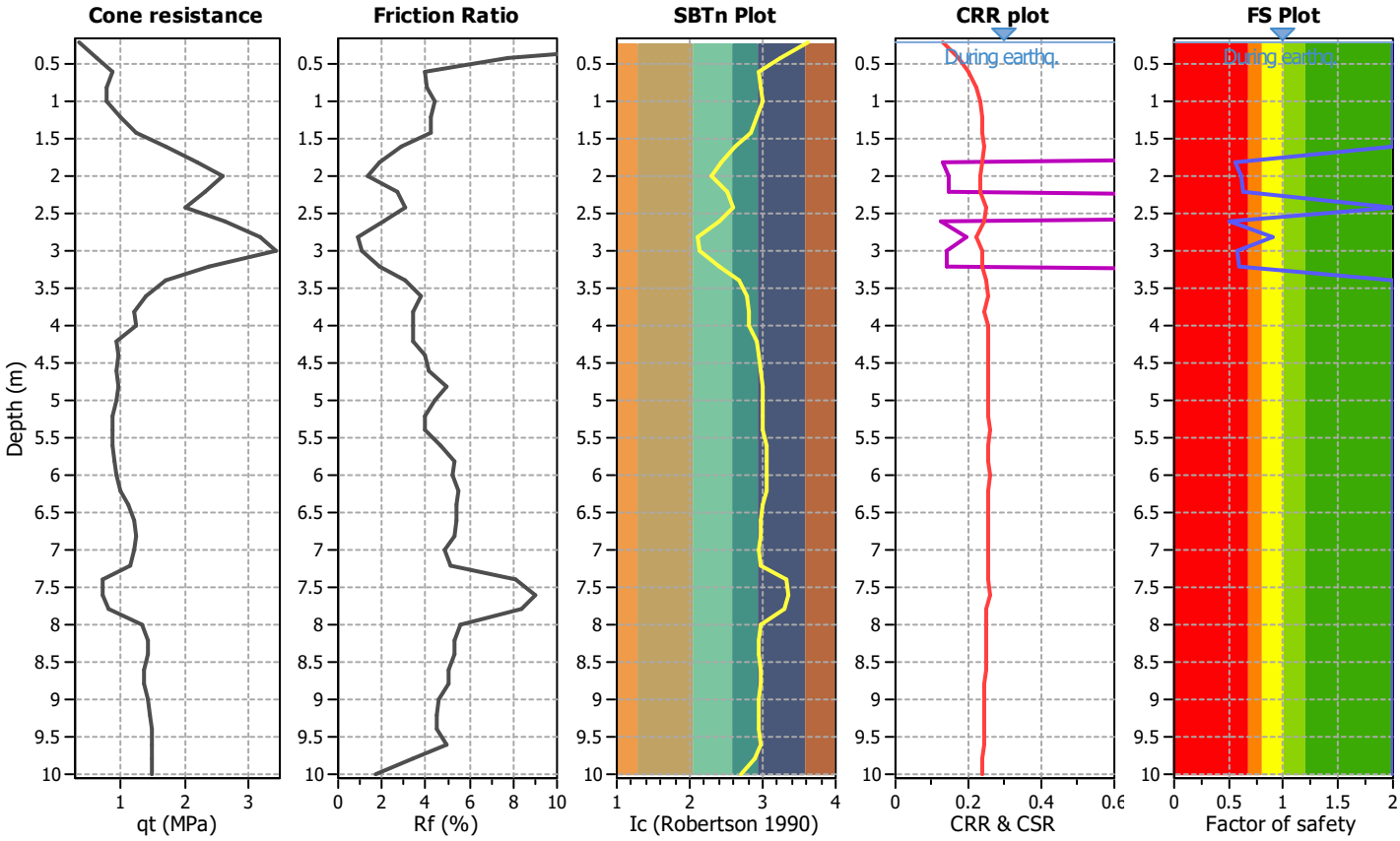
LIQUEFACTION ANALYSIS REPORT

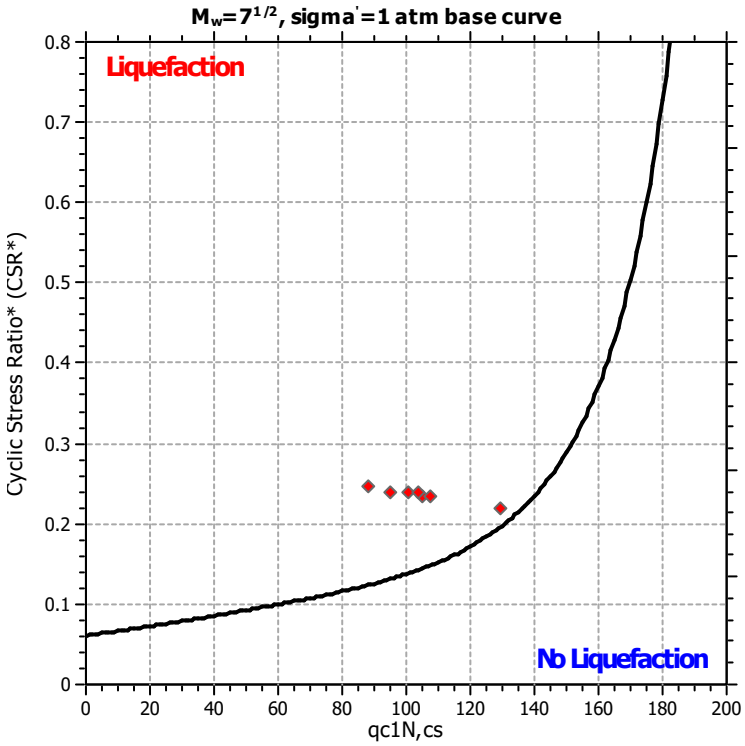
Project title : **Location :**

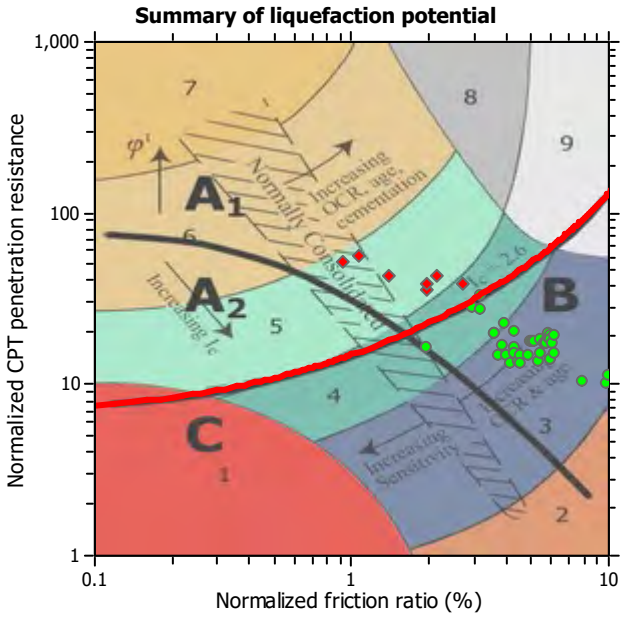
CPT file : SP069

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

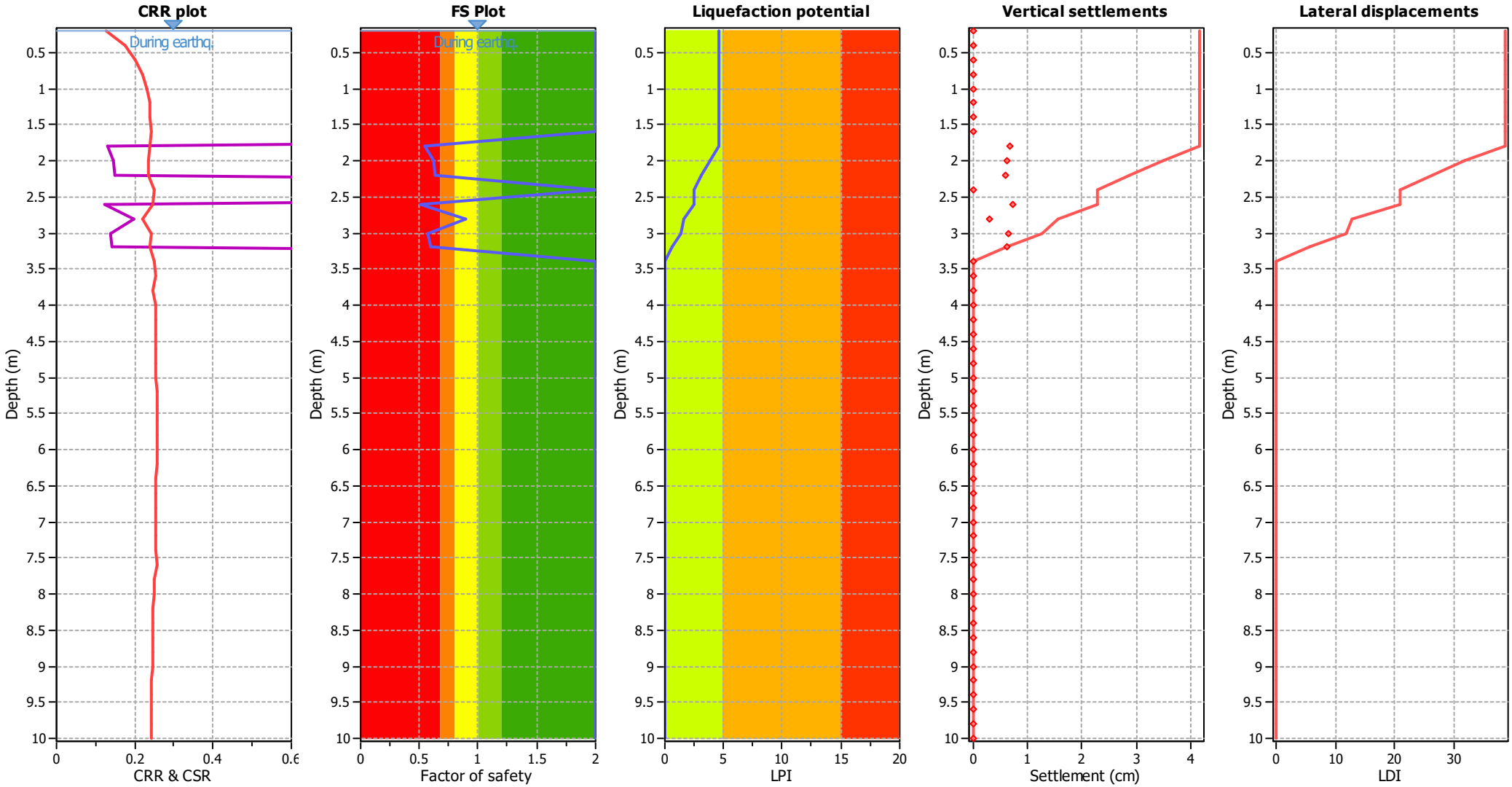






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	0.55	0.45	0.55	0.20	0.82	2.00	0.62	0.38	0.67	0.20	0.69
2.20	0.63	0.37	0.70	0.20	0.65	2.40	2.00	0.00	0.00	0.20	0.00
2.60	0.50	0.50	0.48	0.20	0.86	2.80	0.90	0.00	0.00	0.20	0.18
3.00	0.57	0.43	0.58	0.20	0.73	3.20	0.60	0.40	0.62	0.20	0.68
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.61

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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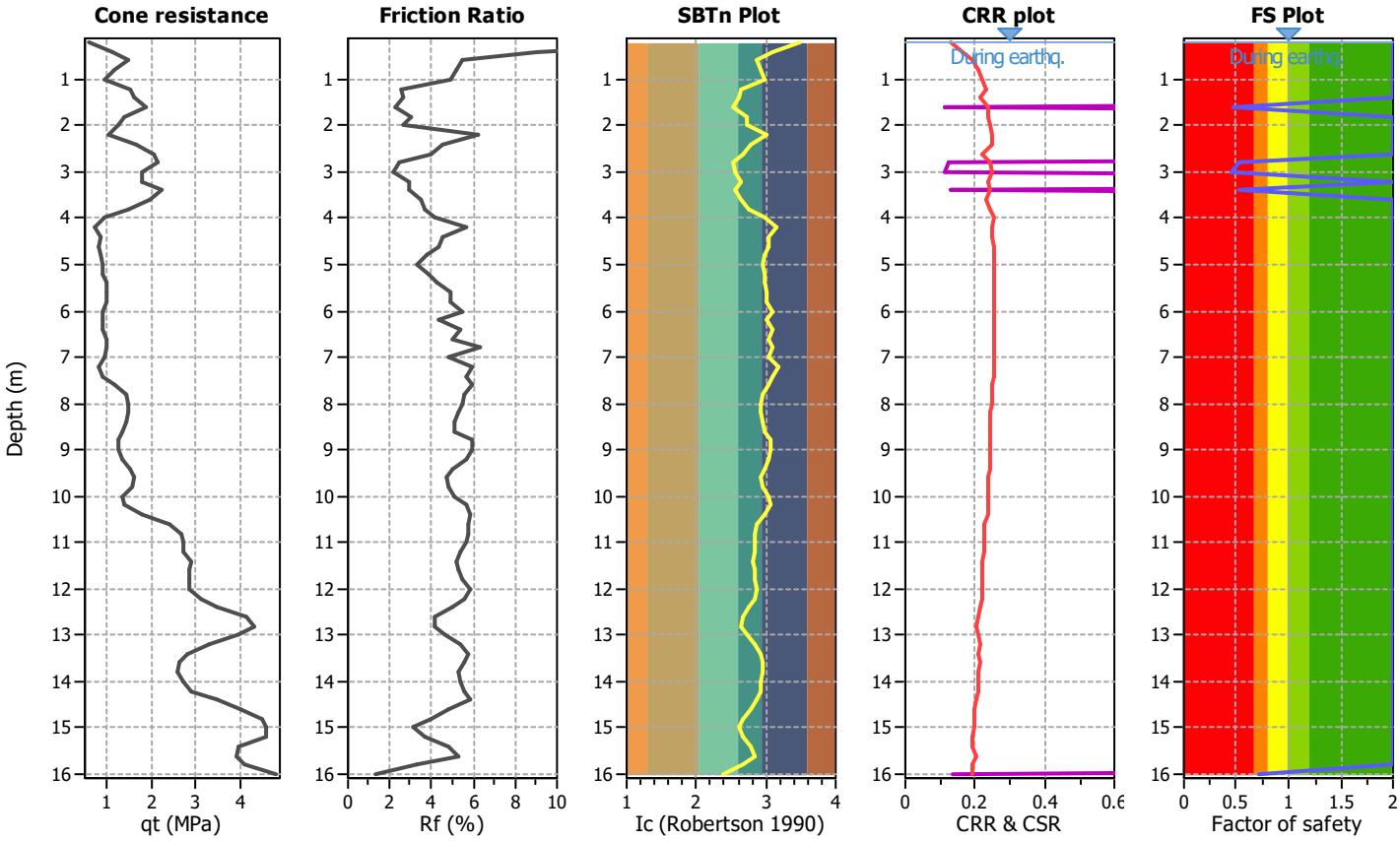
LIQUEFACTION ANALYSIS REPORT

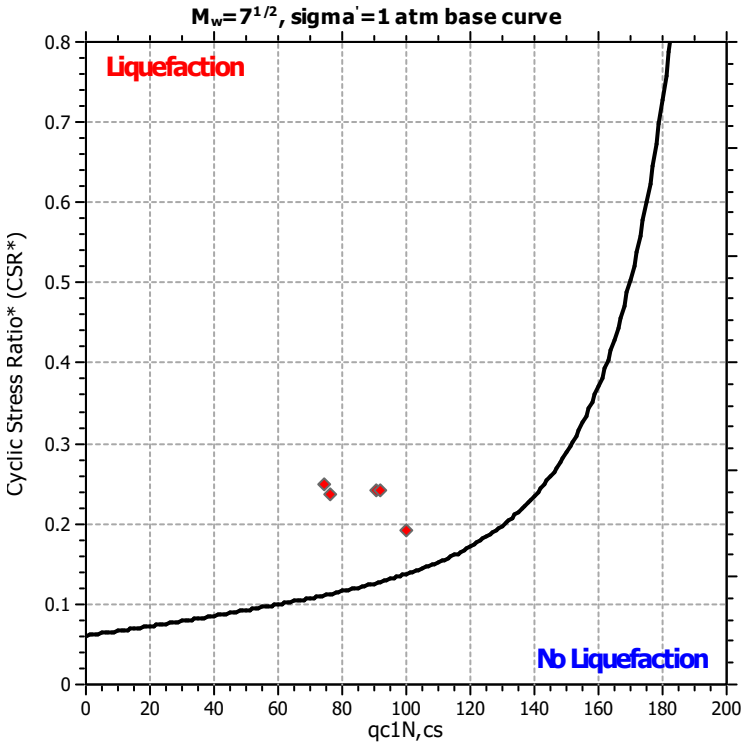
Project title : **Location :**

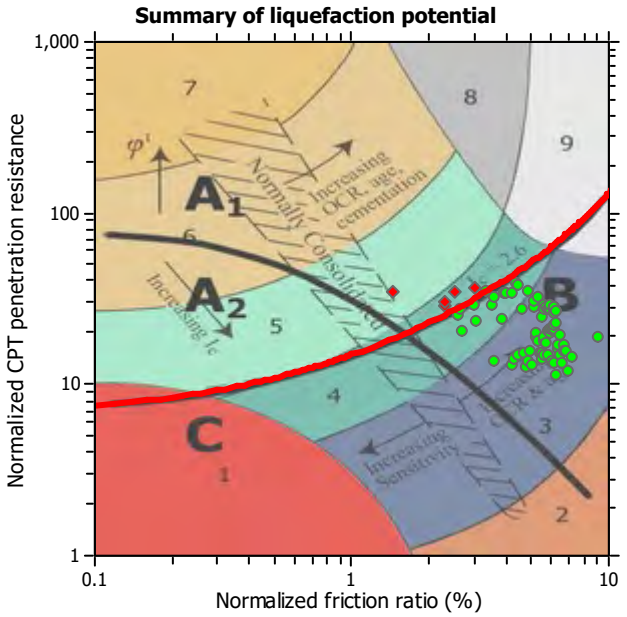
CPT file : SP070

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

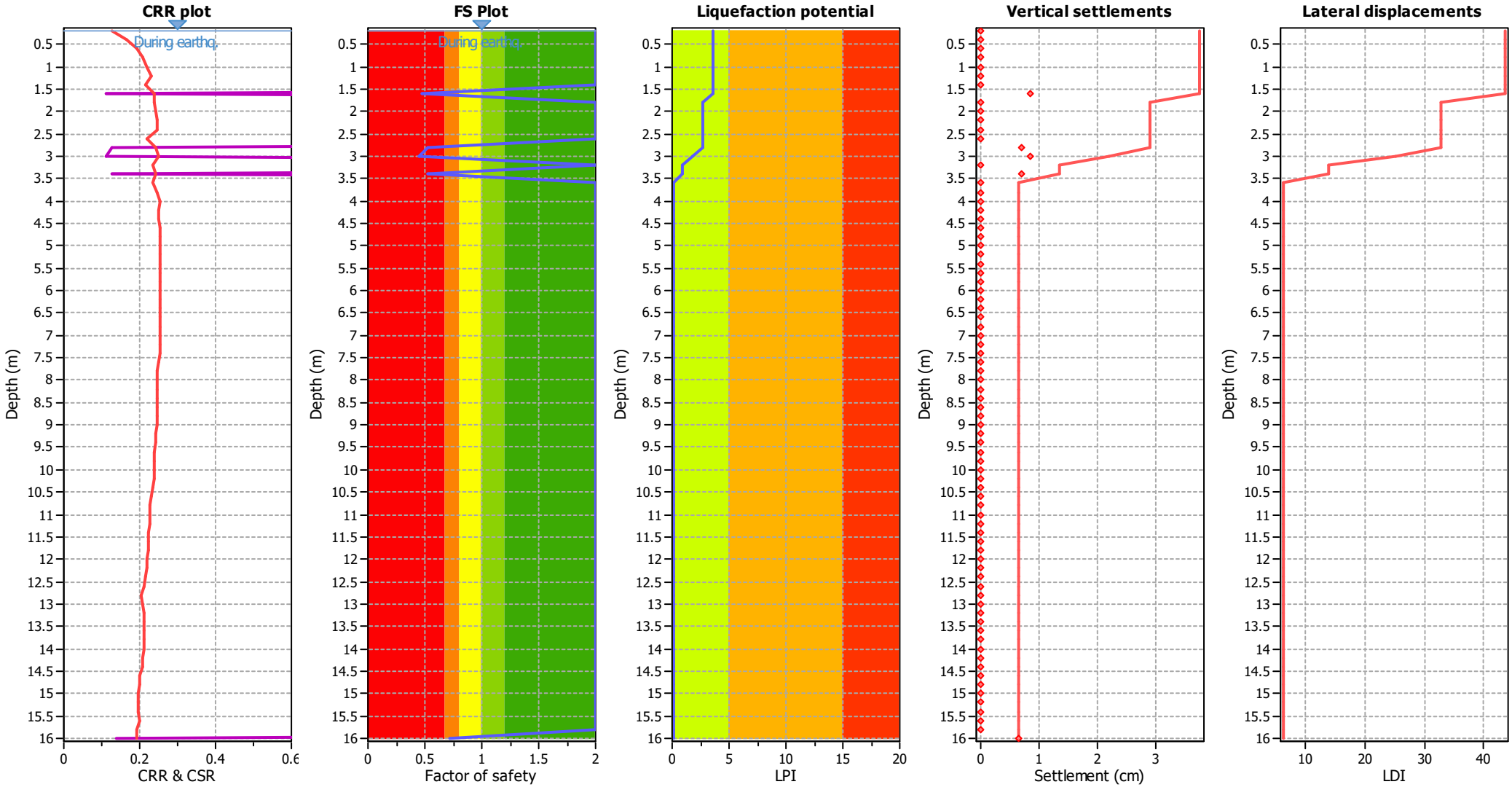






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	0.47	0.53	0.45	0.20	0.97
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	0.52	0.48	0.51	0.20	0.82
3.00	0.45	0.55	0.42	0.20	0.94	3.20	2.00	0.00	0.00	0.20	0.00
3.40	0.53	0.47	0.51	0.20	0.78	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	0.71	0.29	0.97	0.20	0.12

Overall liquefaction potential: 3.63

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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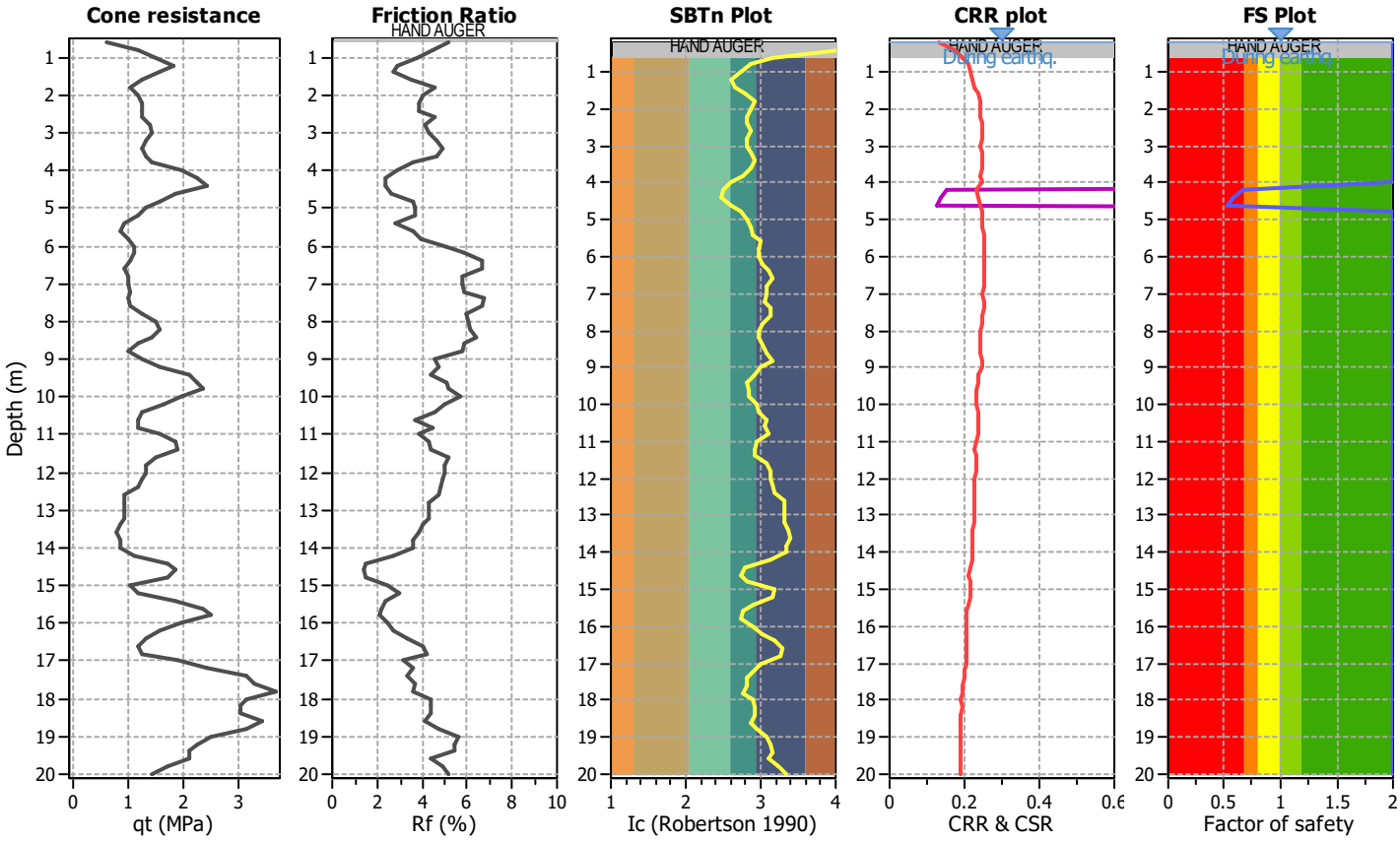
LIQUEFACTION ANALYSIS REPORT

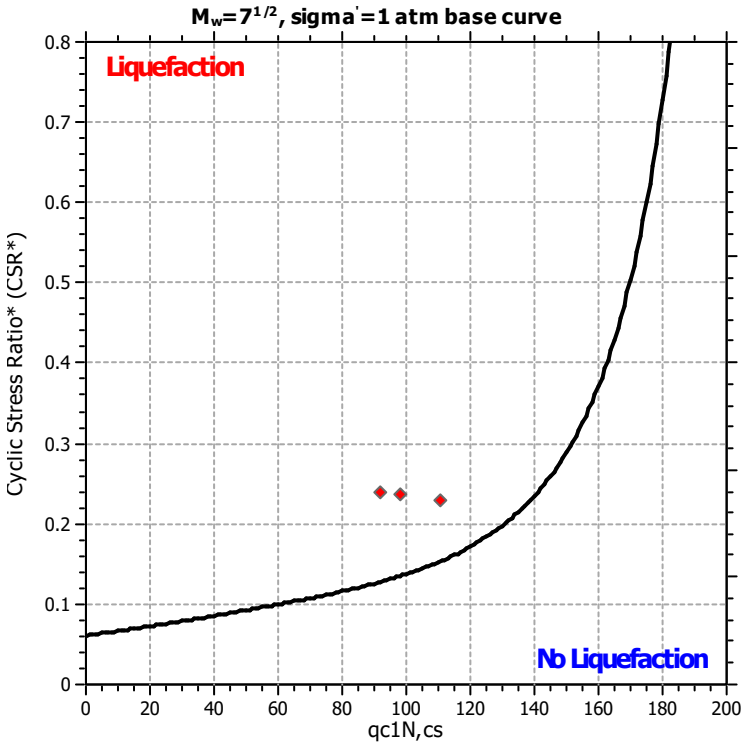
Project title : **Location :**

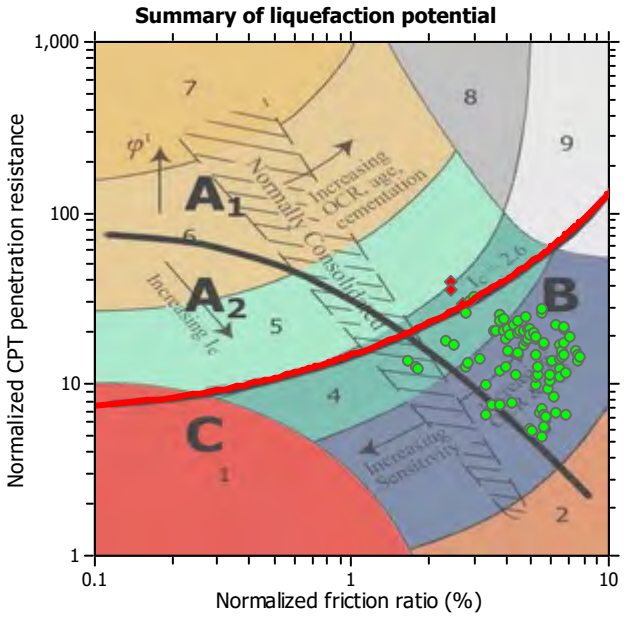
CPT file : SP071

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

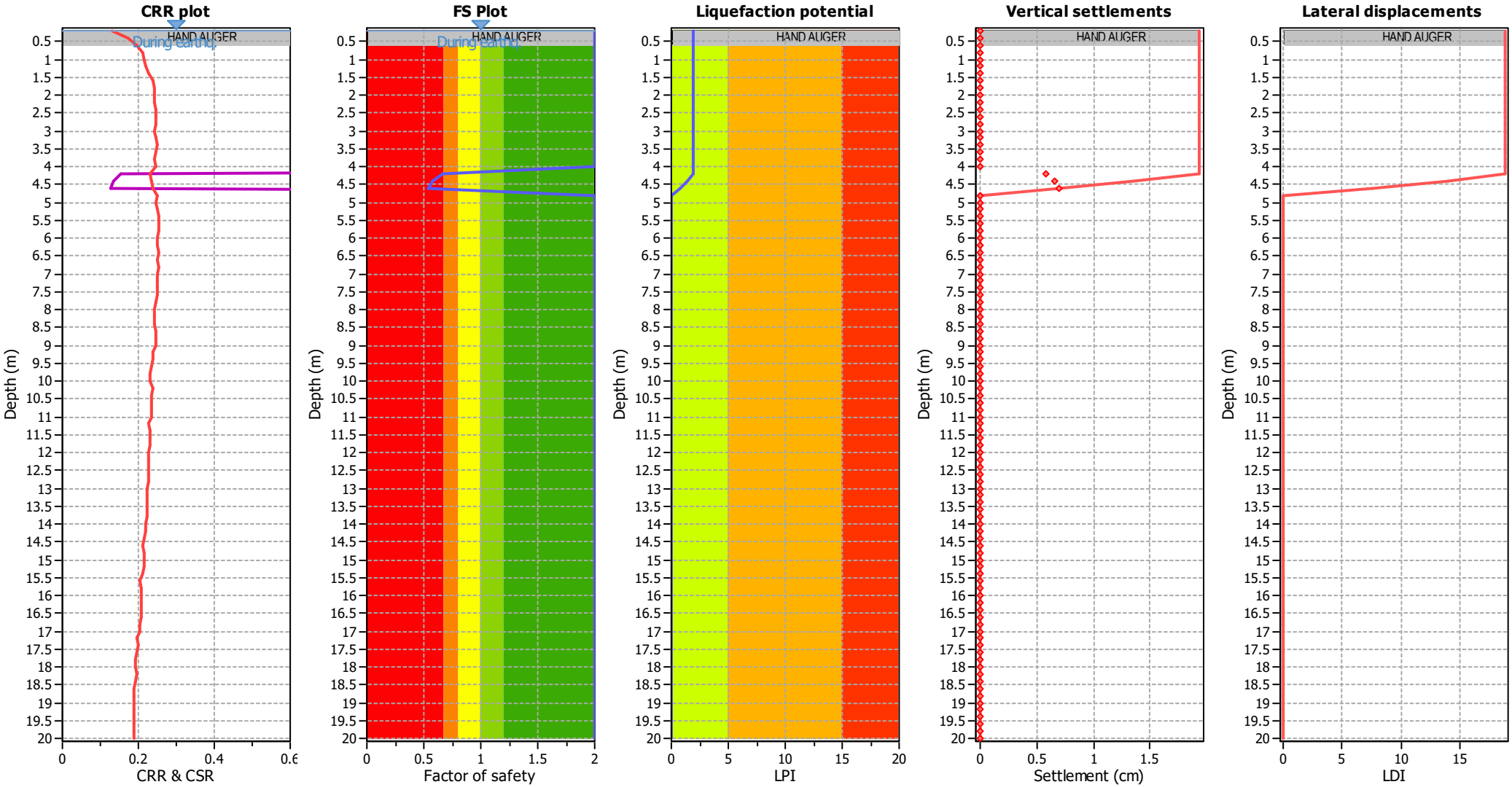






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	0.67	0.00	0.00	0.20	0.52	4.40	0.57	0.43	0.58	0.20	0.67
4.60	0.53	0.47	0.52	0.20	0.72	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.91

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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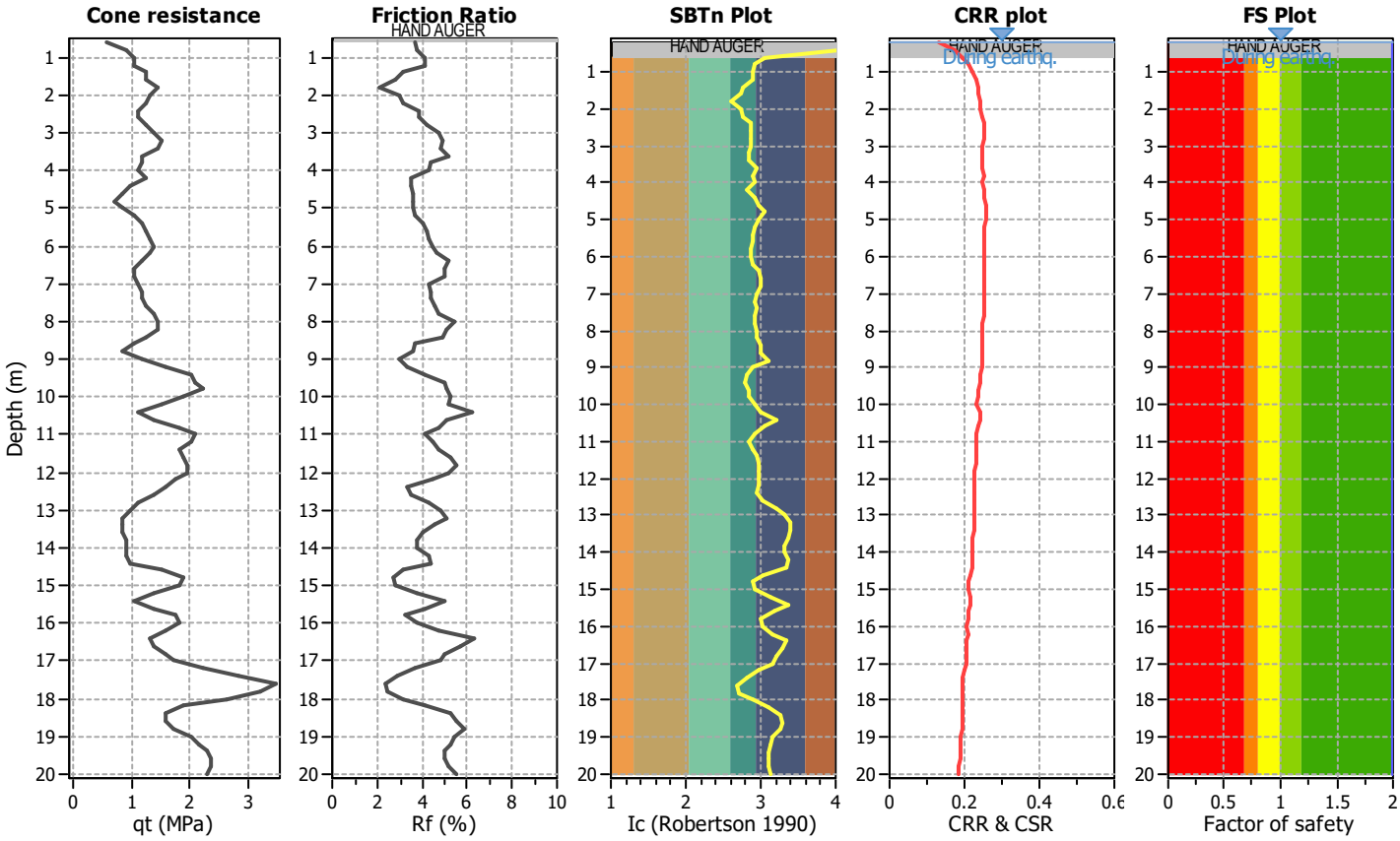
LIQUEFACTION ANALYSIS REPORT

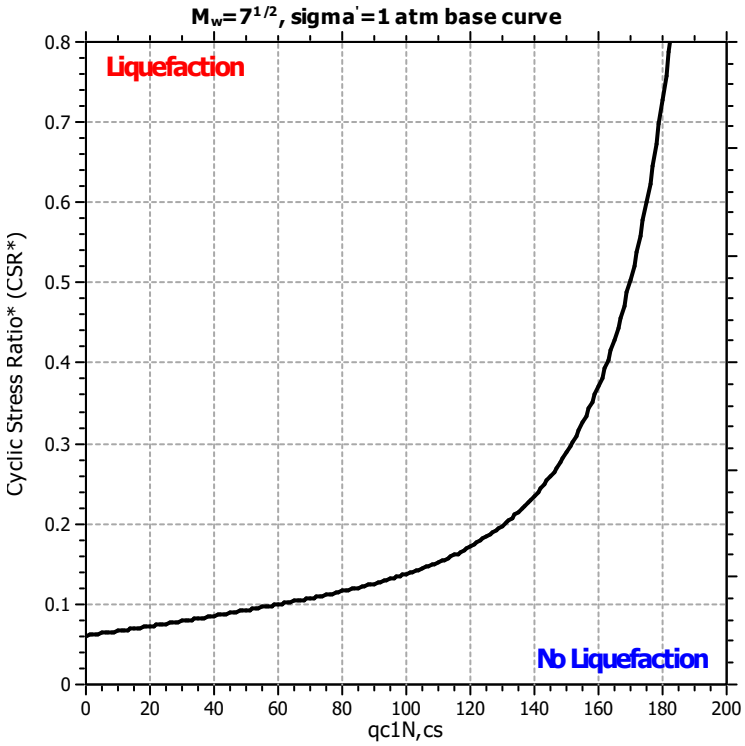
Project title : **Location :**

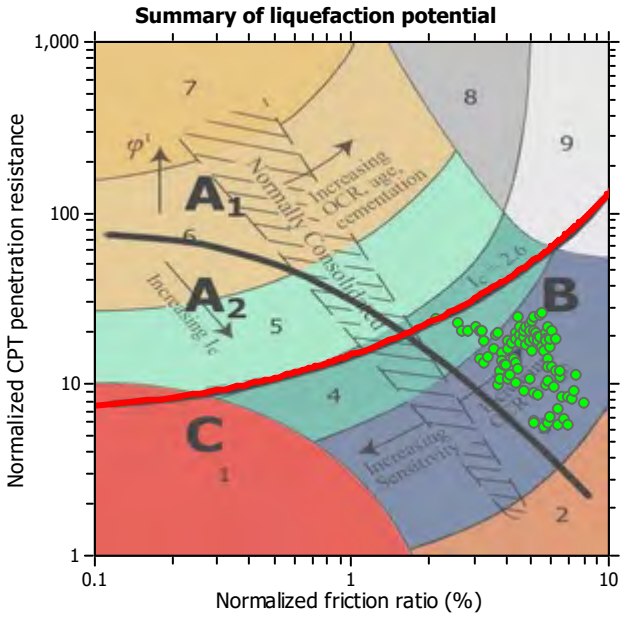
CPT file : SP072

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

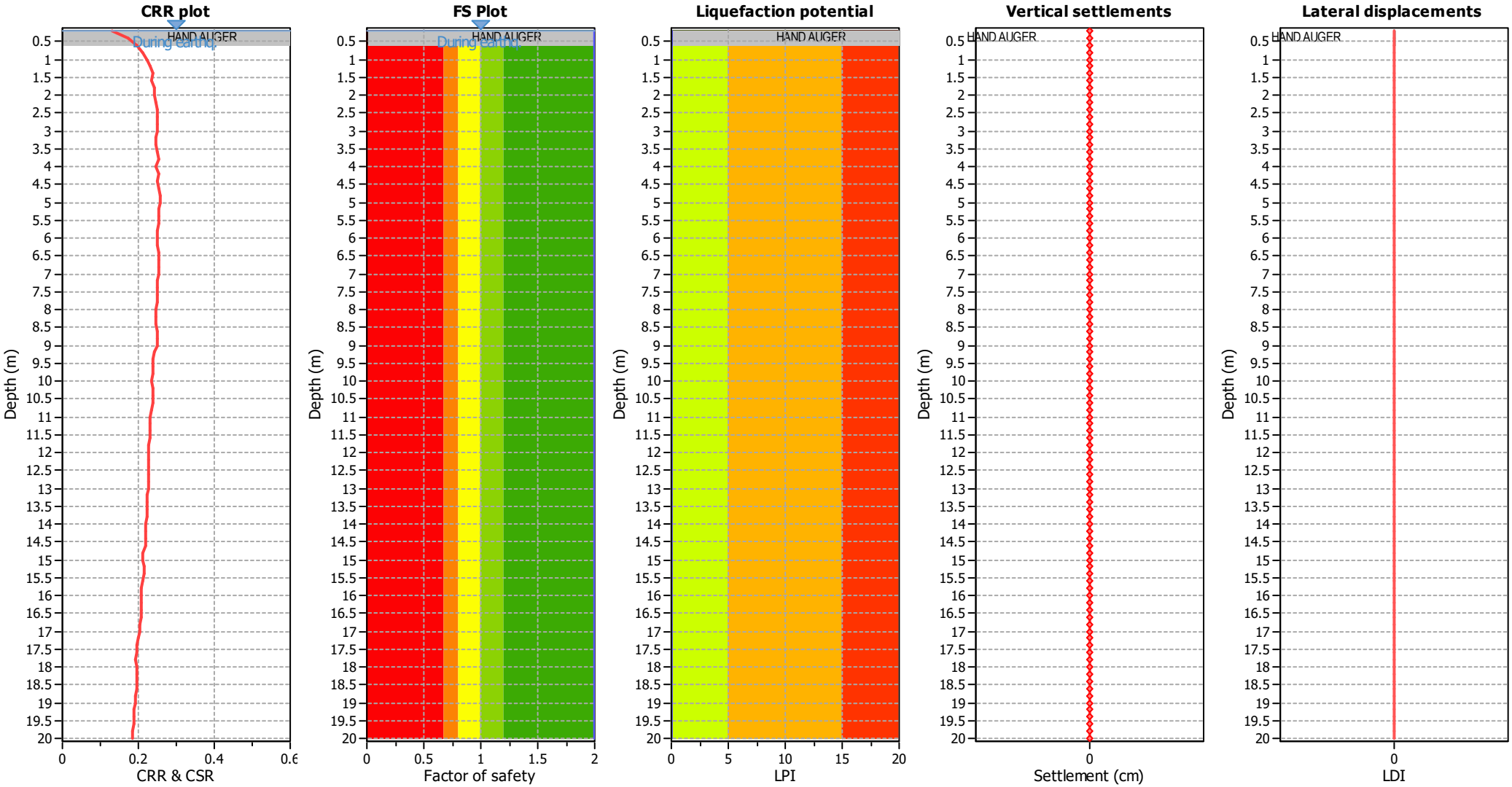






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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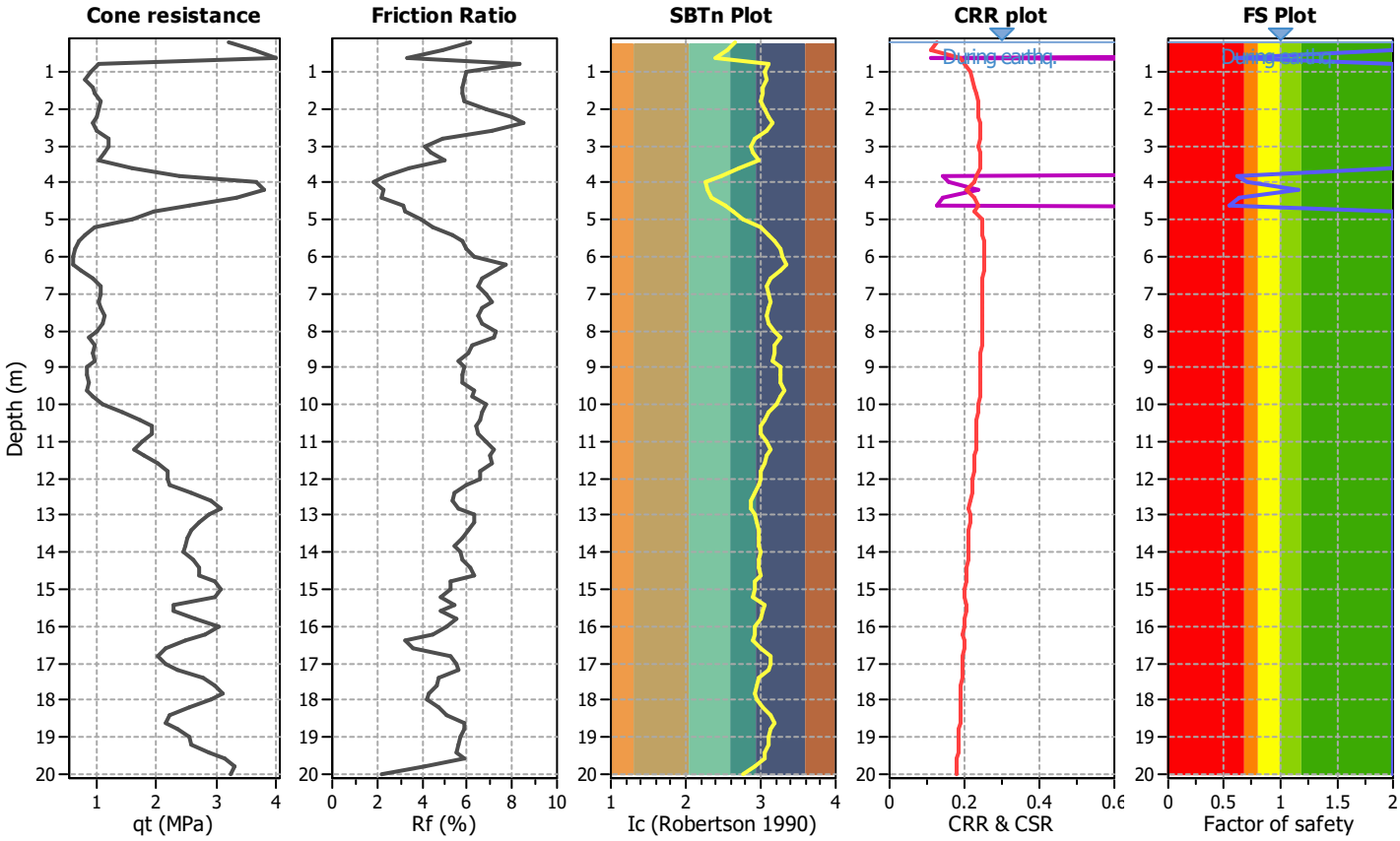
LIQUEFACTION ANALYSIS REPORT

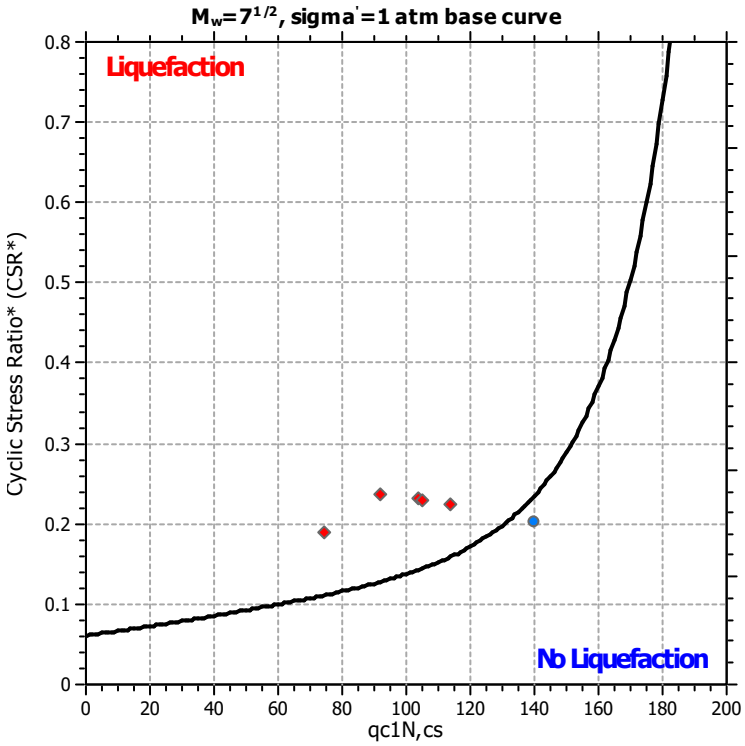
Project title : **Location :**

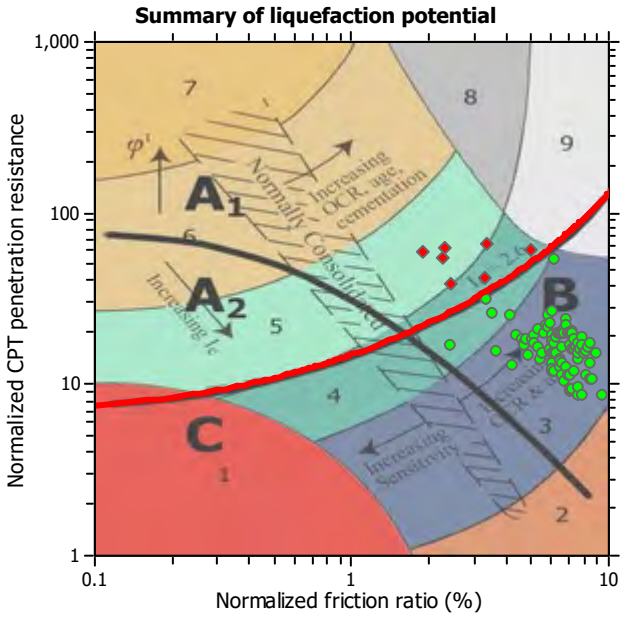
CPT file : SP073

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

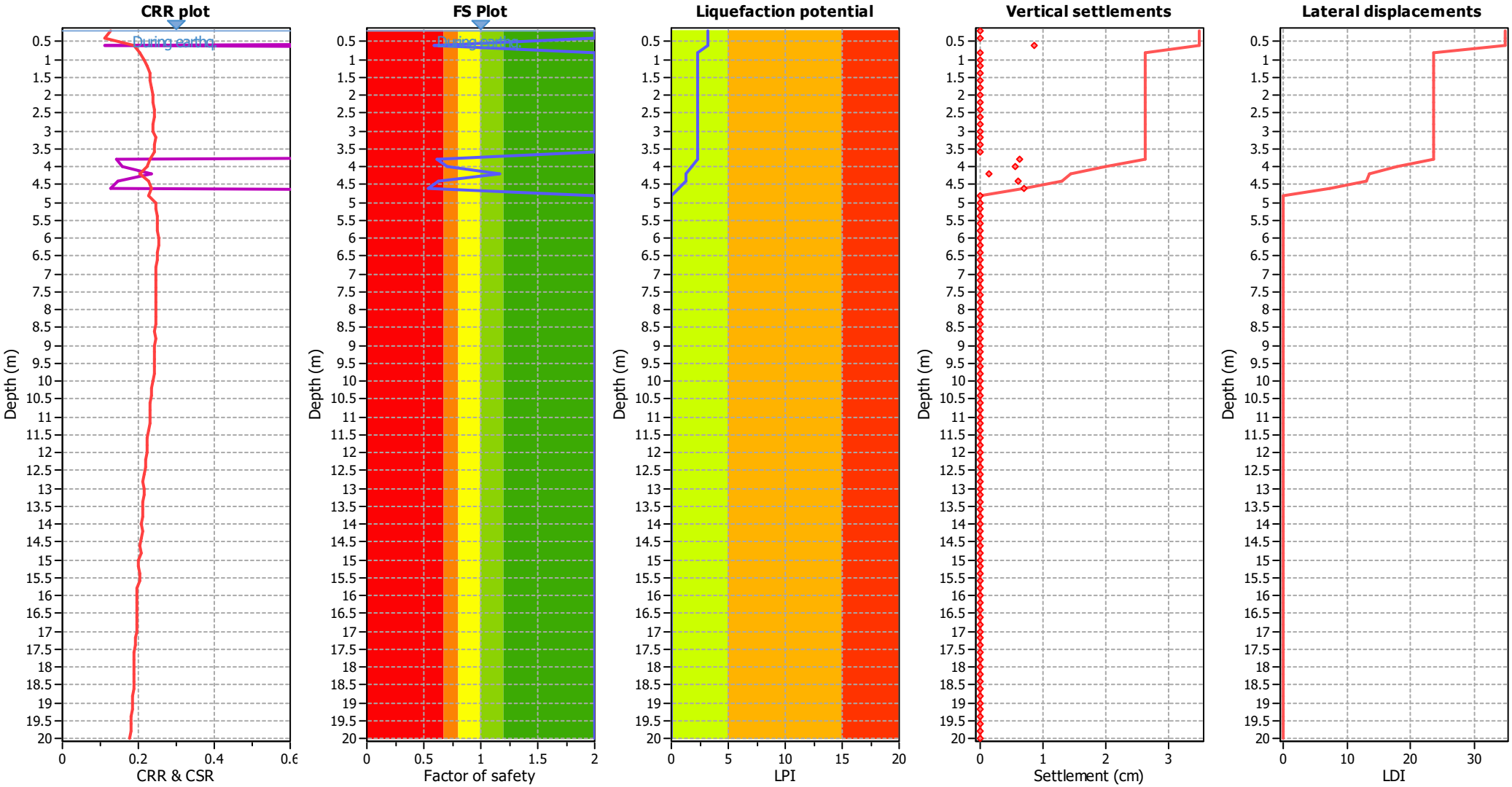






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.59	0.41	0.61	0.20	0.80	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	0.62	0.38	0.67	0.20	0.62	4.00	0.71	0.29	0.95	0.20	0.47
4.20	1.16	0.00	0.00	0.20	0.00	4.40	0.63	0.37	0.71	0.20	0.57
4.60	0.54	0.46	0.53	0.20	0.70	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.16

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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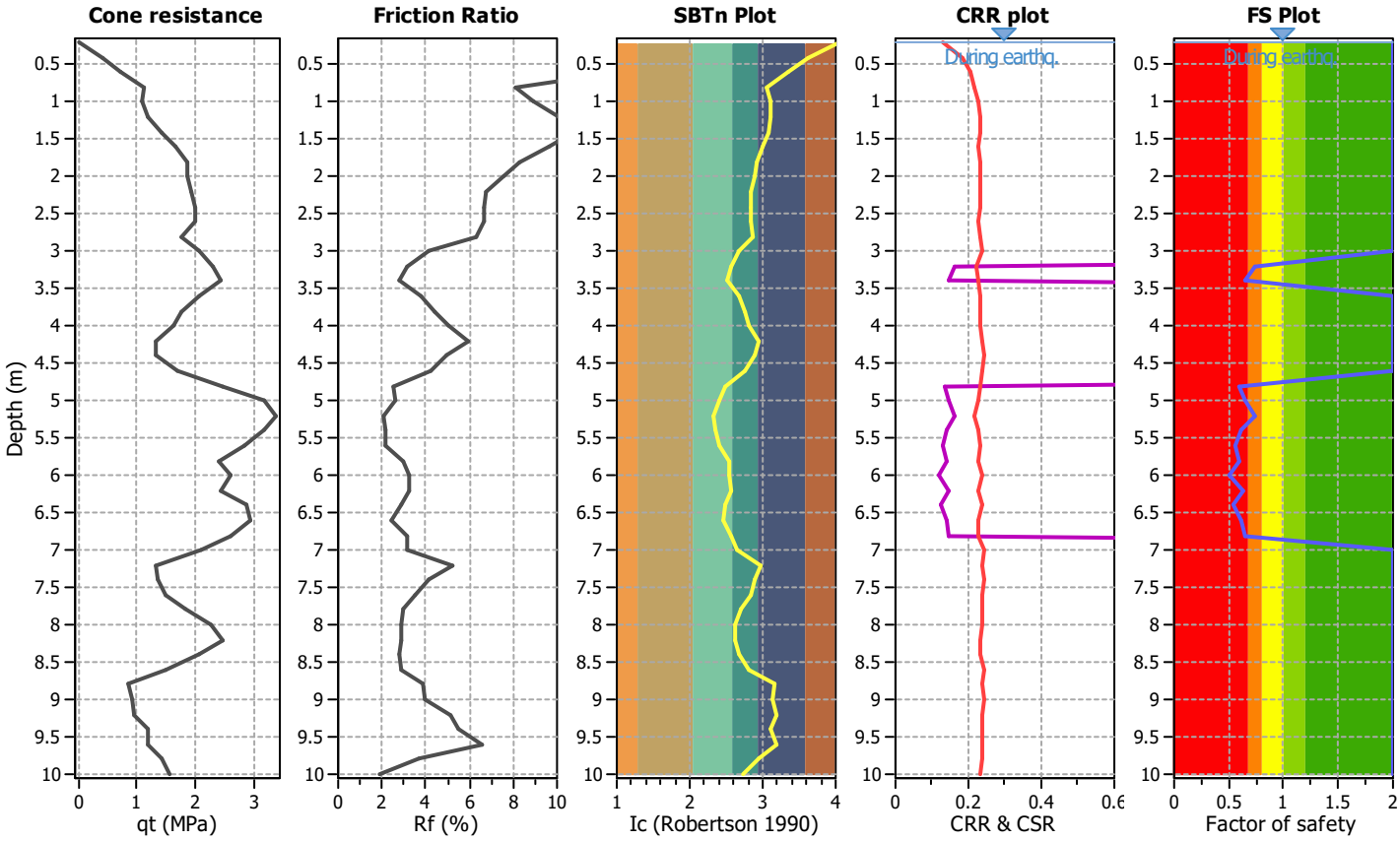
LIQUEFACTION ANALYSIS REPORT

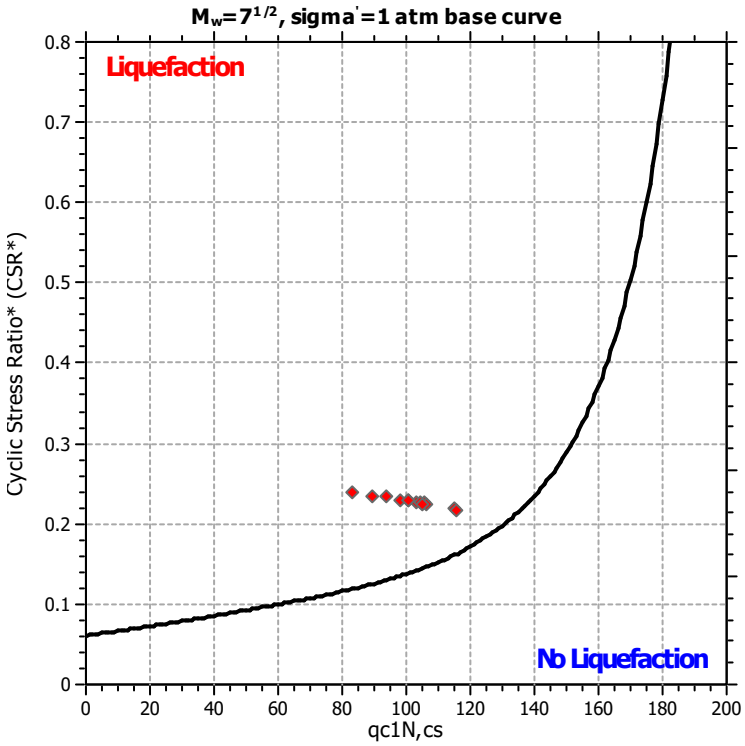
Project title : **Location :**

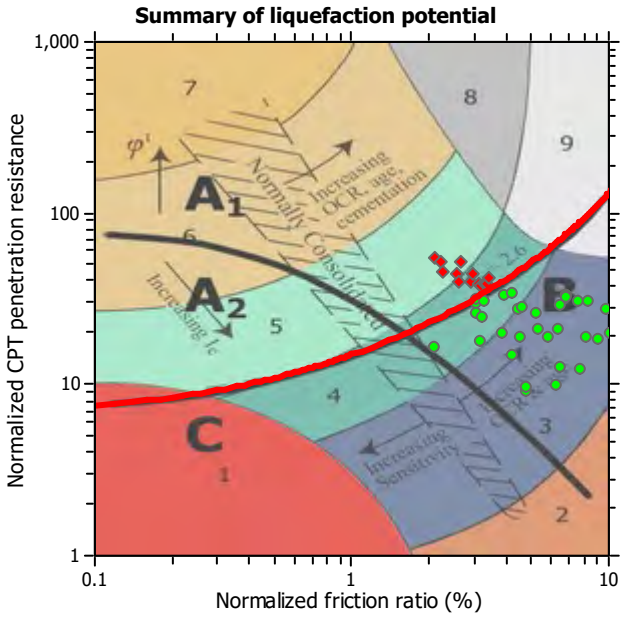
CPT file : SP076

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

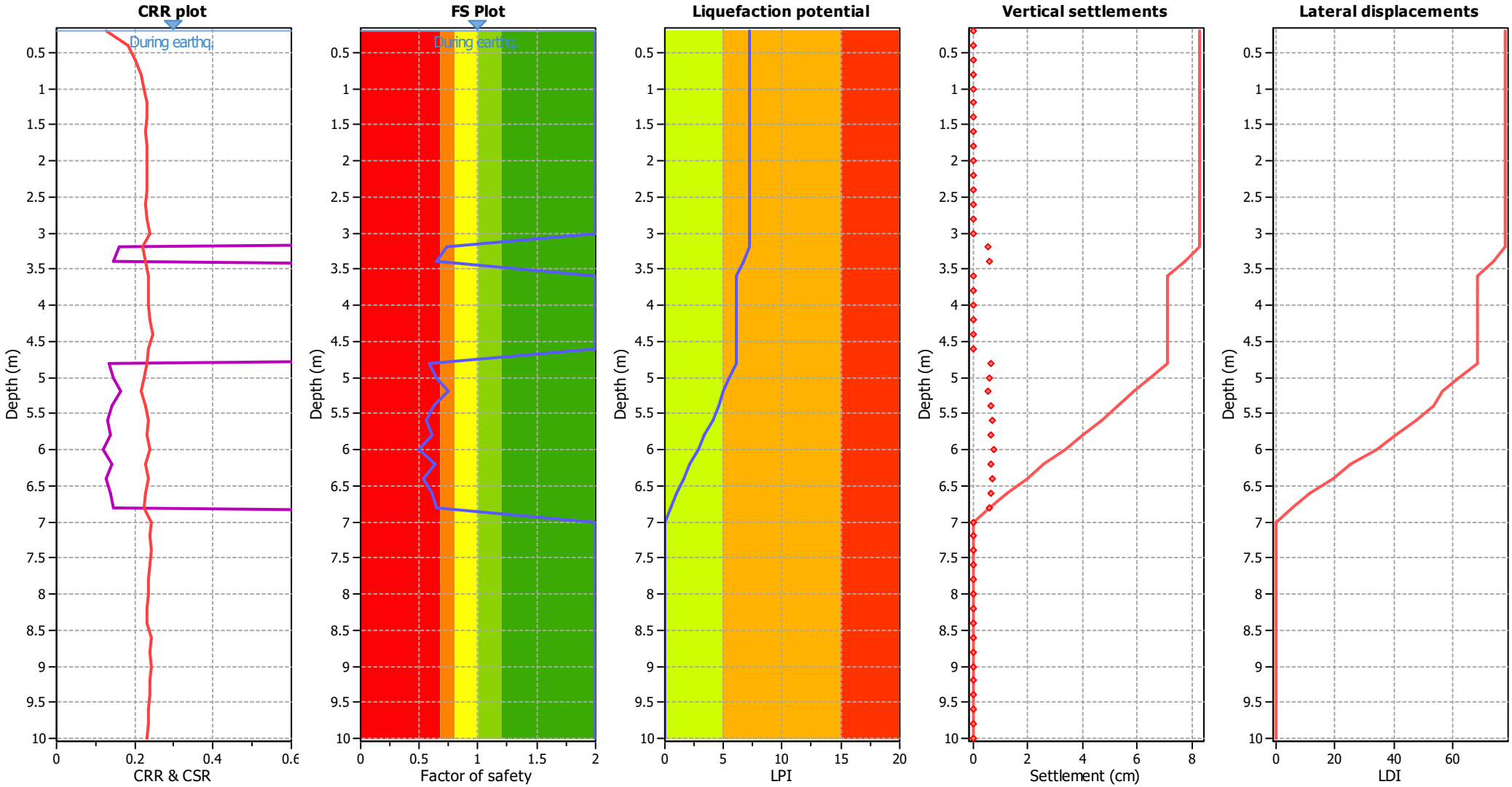






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	0.73	0.00	0.00	0.20	0.45
3.40	0.64	0.00	0.00	0.20	0.59	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	0.59	0.41	0.61	0.20	0.63
5.00	0.65	0.00	0.00	0.20	0.53	5.20	0.75	0.00	0.00	0.20	0.38
5.40	0.62	0.00	0.00	0.20	0.55	5.60	0.55	0.45	0.55	0.20	0.64
5.80	0.60	0.00	0.00	0.20	0.56	6.00	0.50	0.50	0.48	0.20	0.70
6.20	0.63	0.00	0.00	0.20	0.51	6.40	0.53	0.47	0.52	0.20	0.64
6.60	0.61	0.00	0.00	0.20	0.53	6.80	0.64	0.00	0.00	0.20	0.47
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 7.17

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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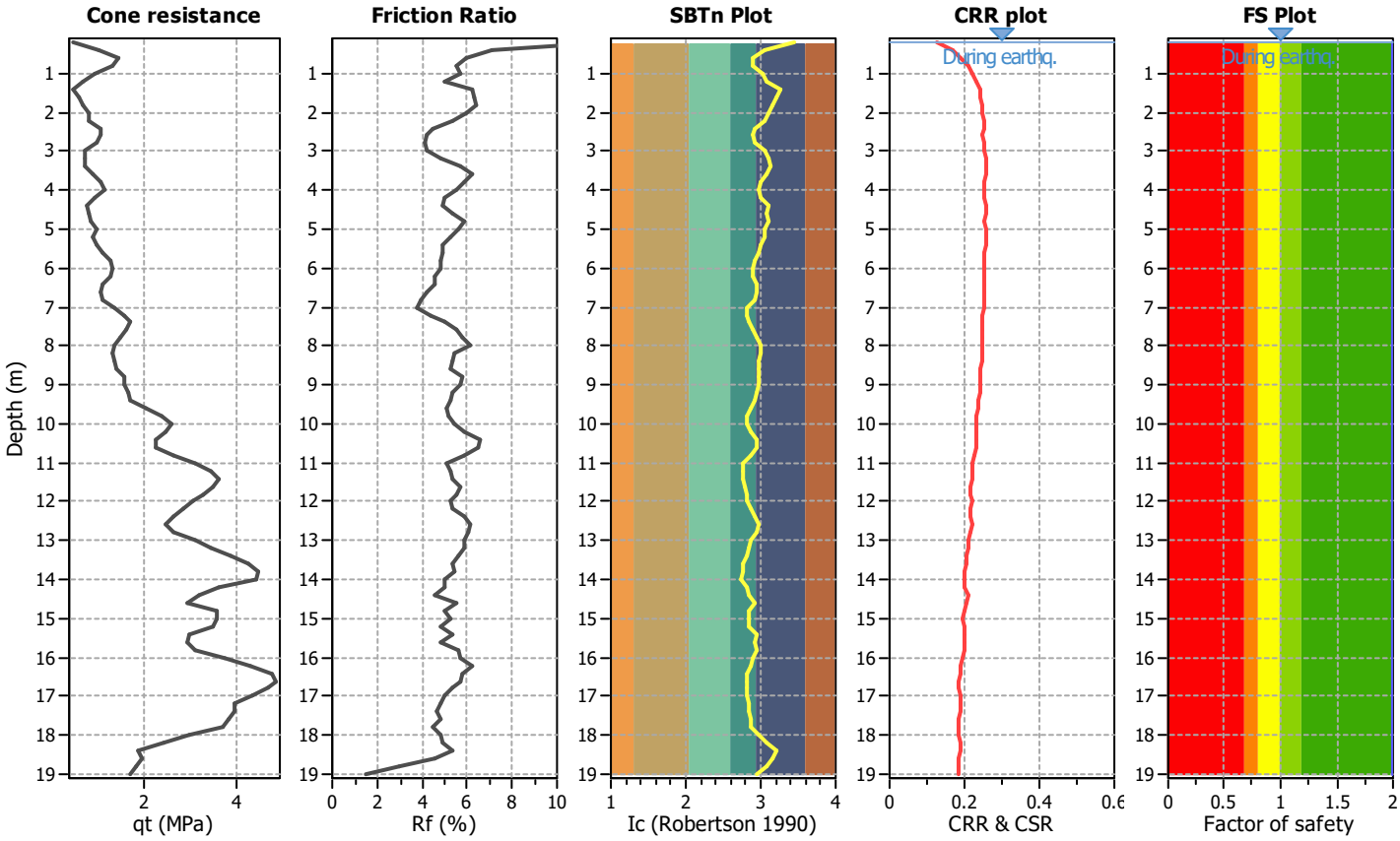
LIQUEFACTION ANALYSIS REPORT

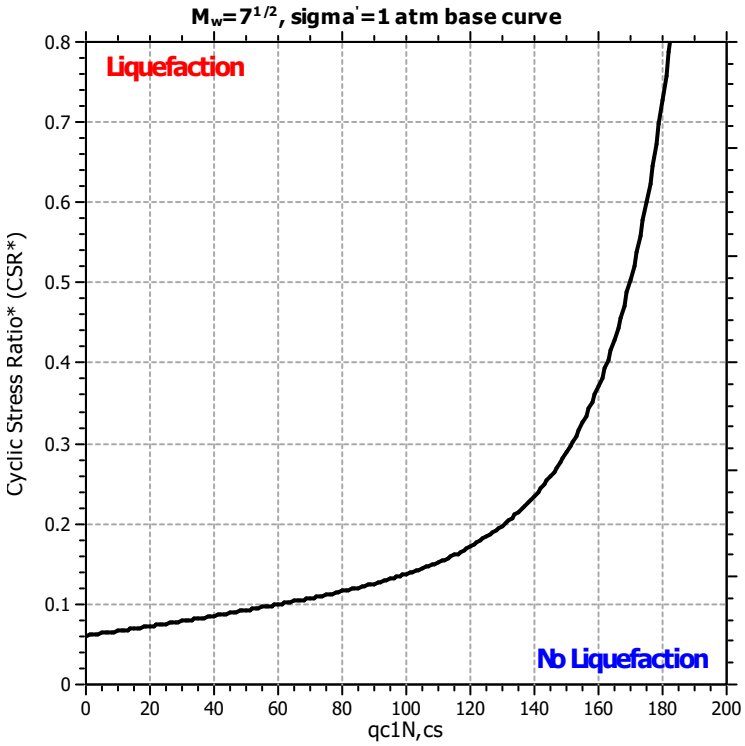
Project title : **Location :**

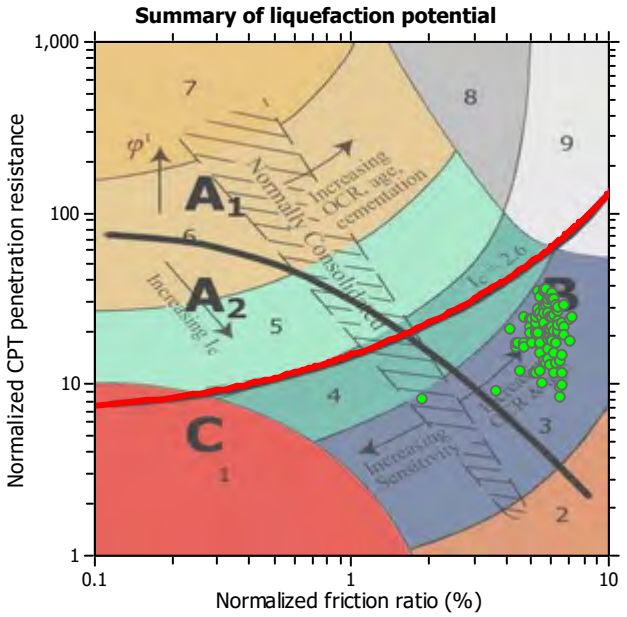
CPT file : SP077

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

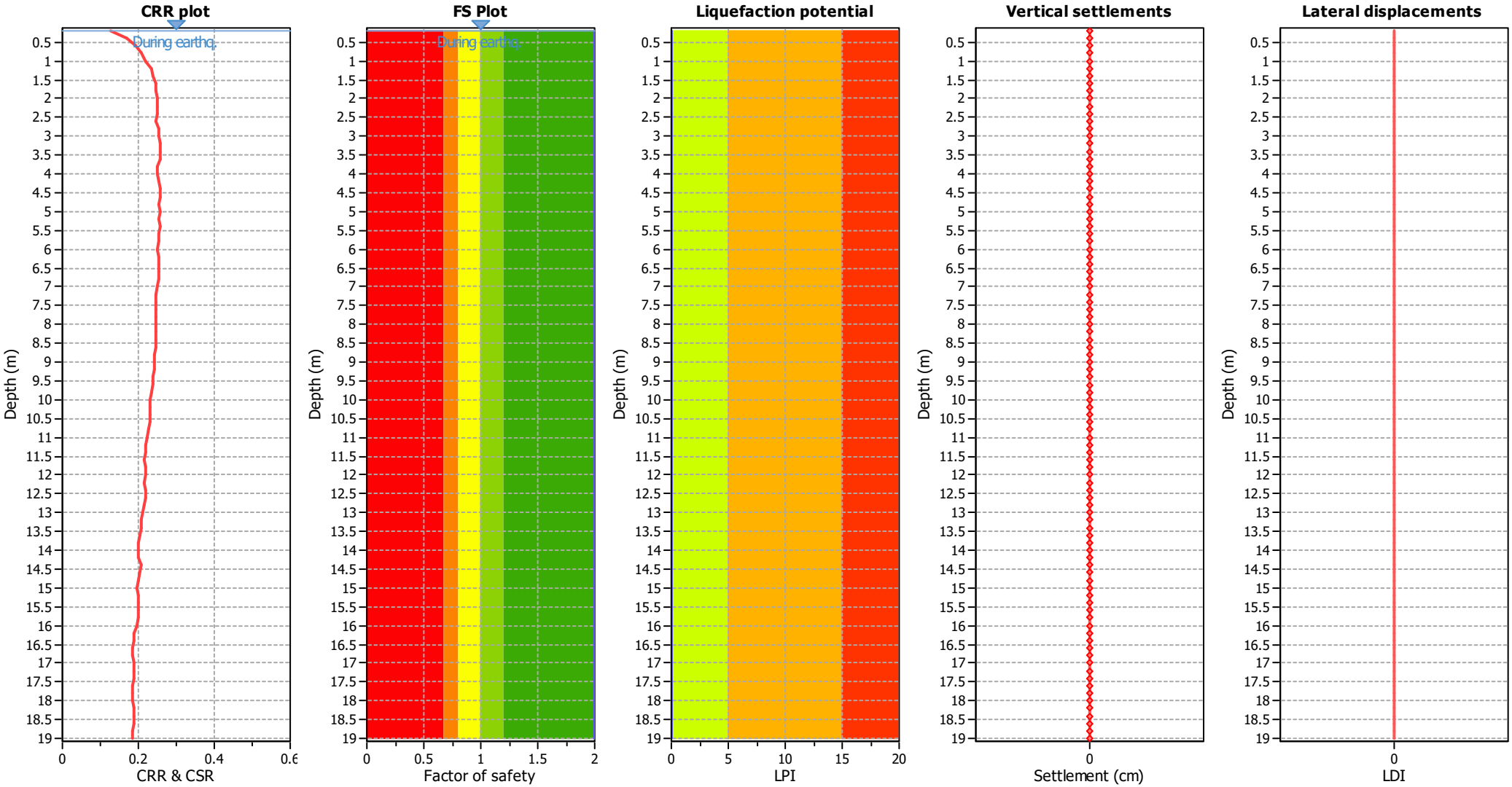






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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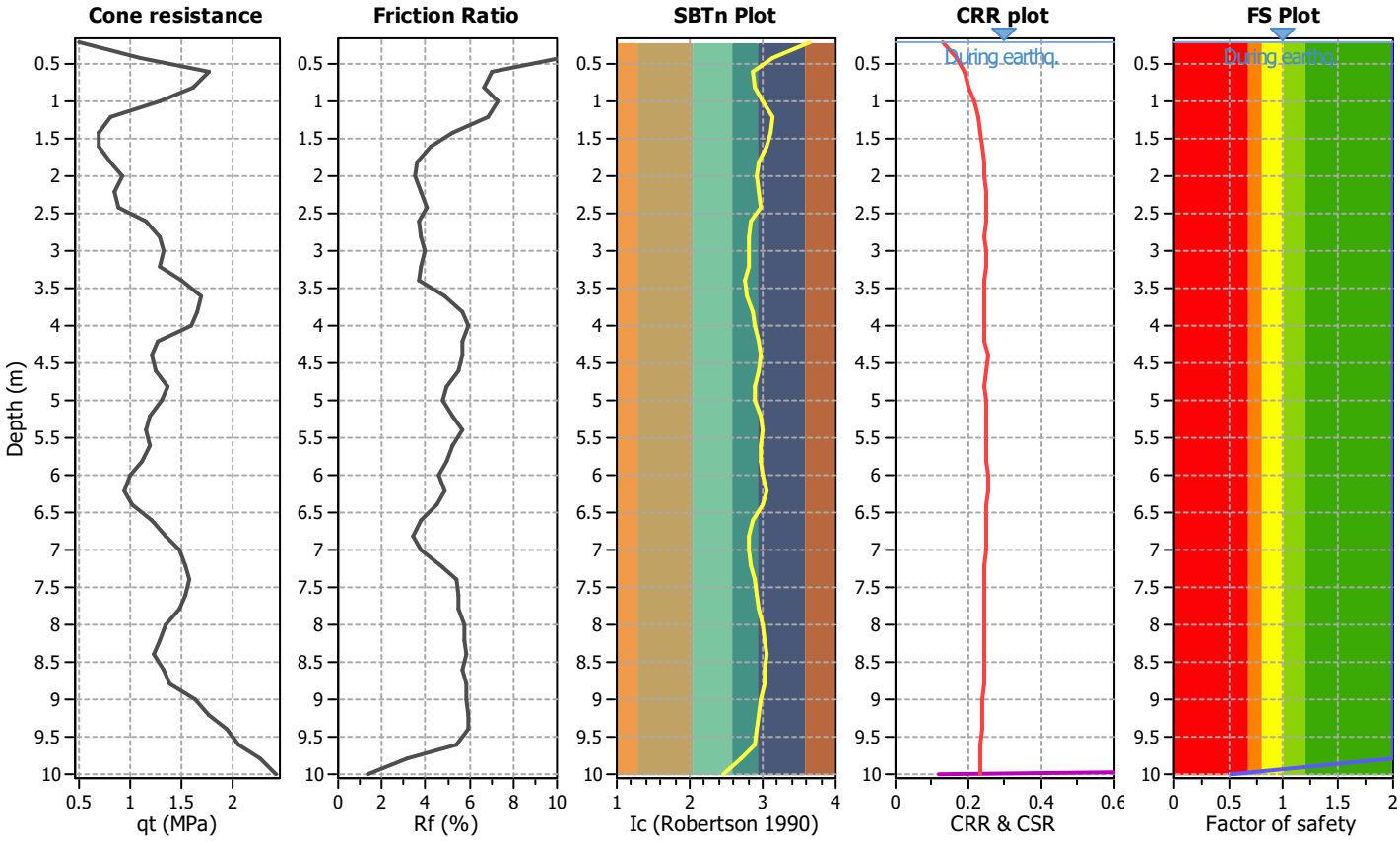
LIQUEFACTION ANALYSIS REPORT

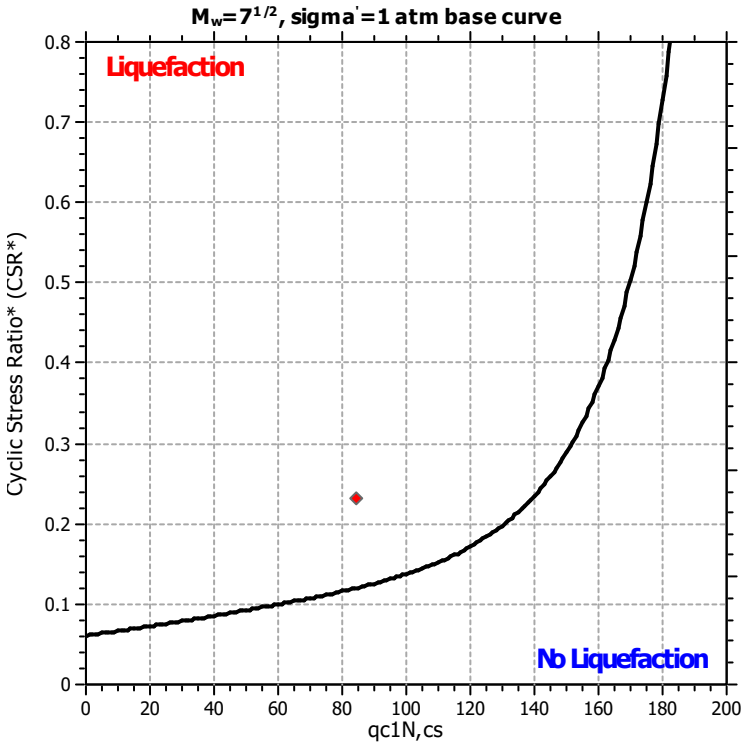
Project title : **Location :**

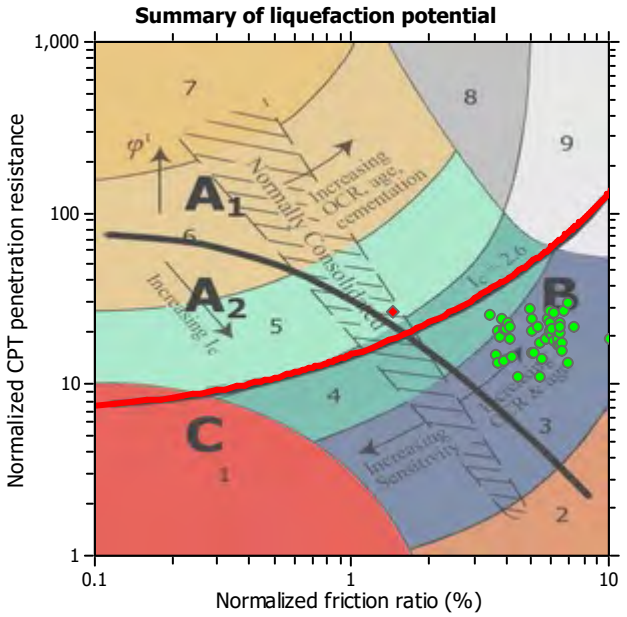
CPT file : SP078

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

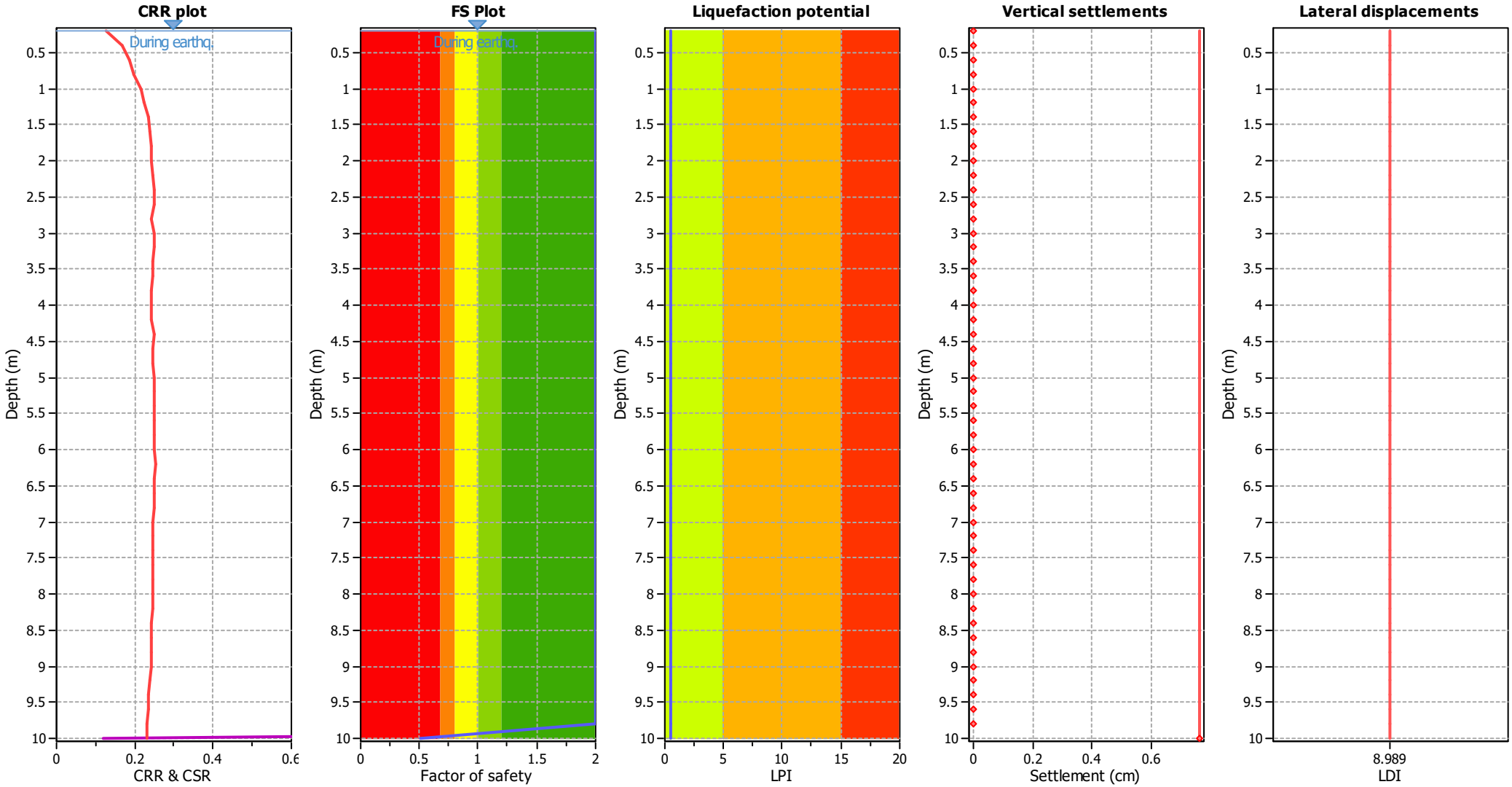






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	0.51	0.49	0.50	0.20	0.49

Overall liquefaction potential: 0.49

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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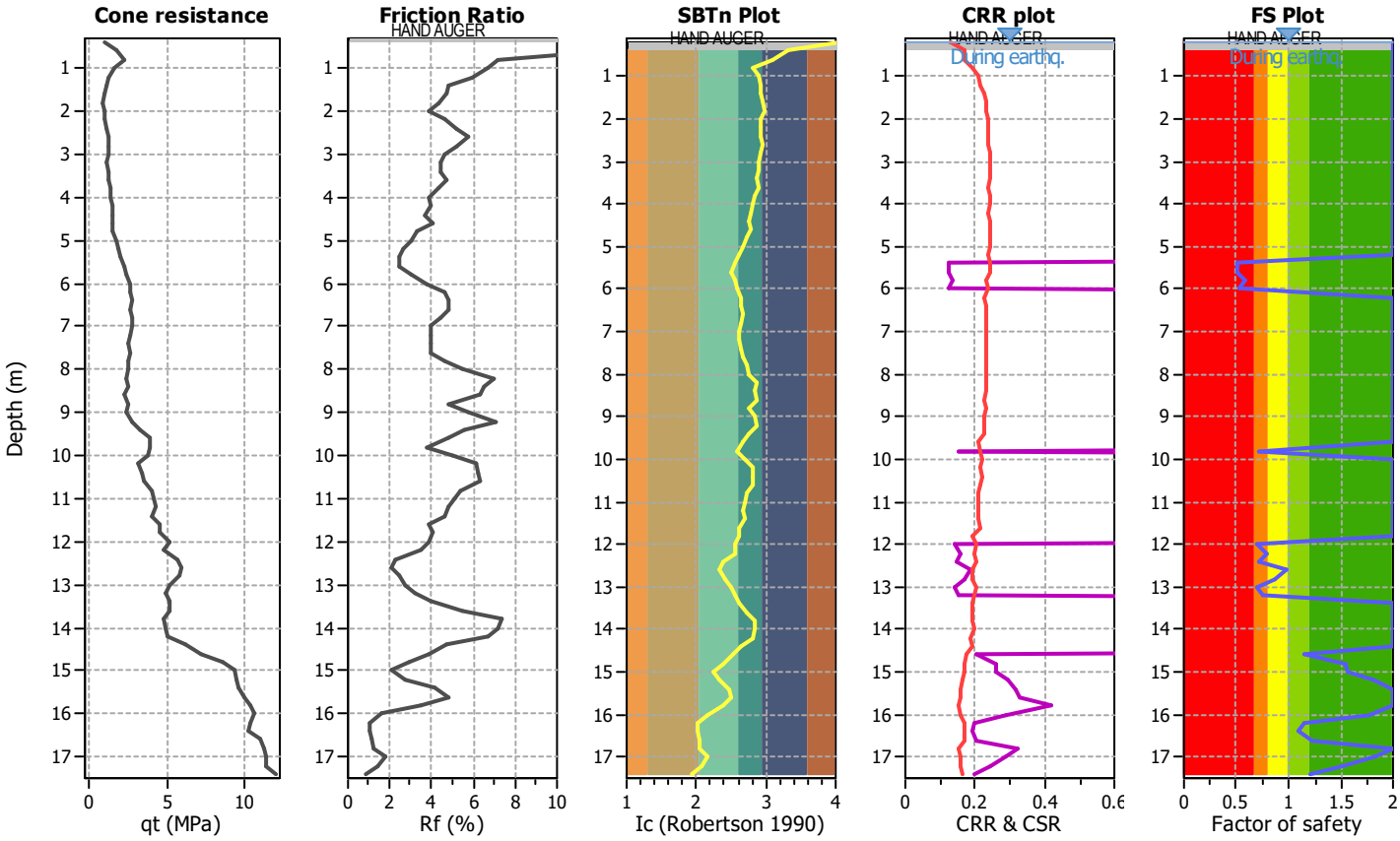
LIQUEFACTION ANALYSIS REPORT

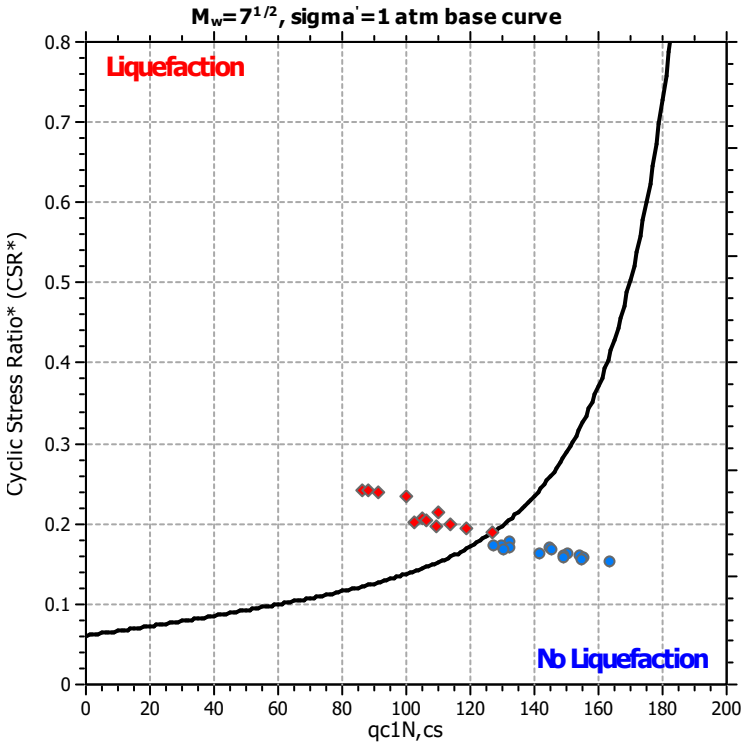
Project title : **Location :**

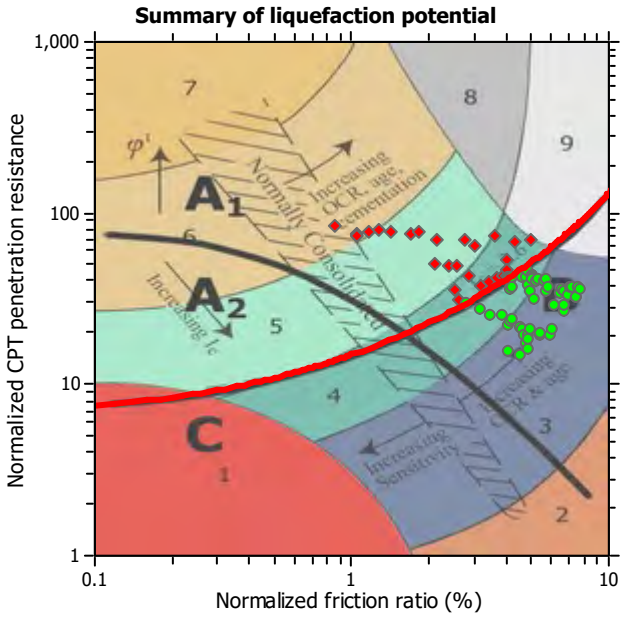
CPT file : SP079

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

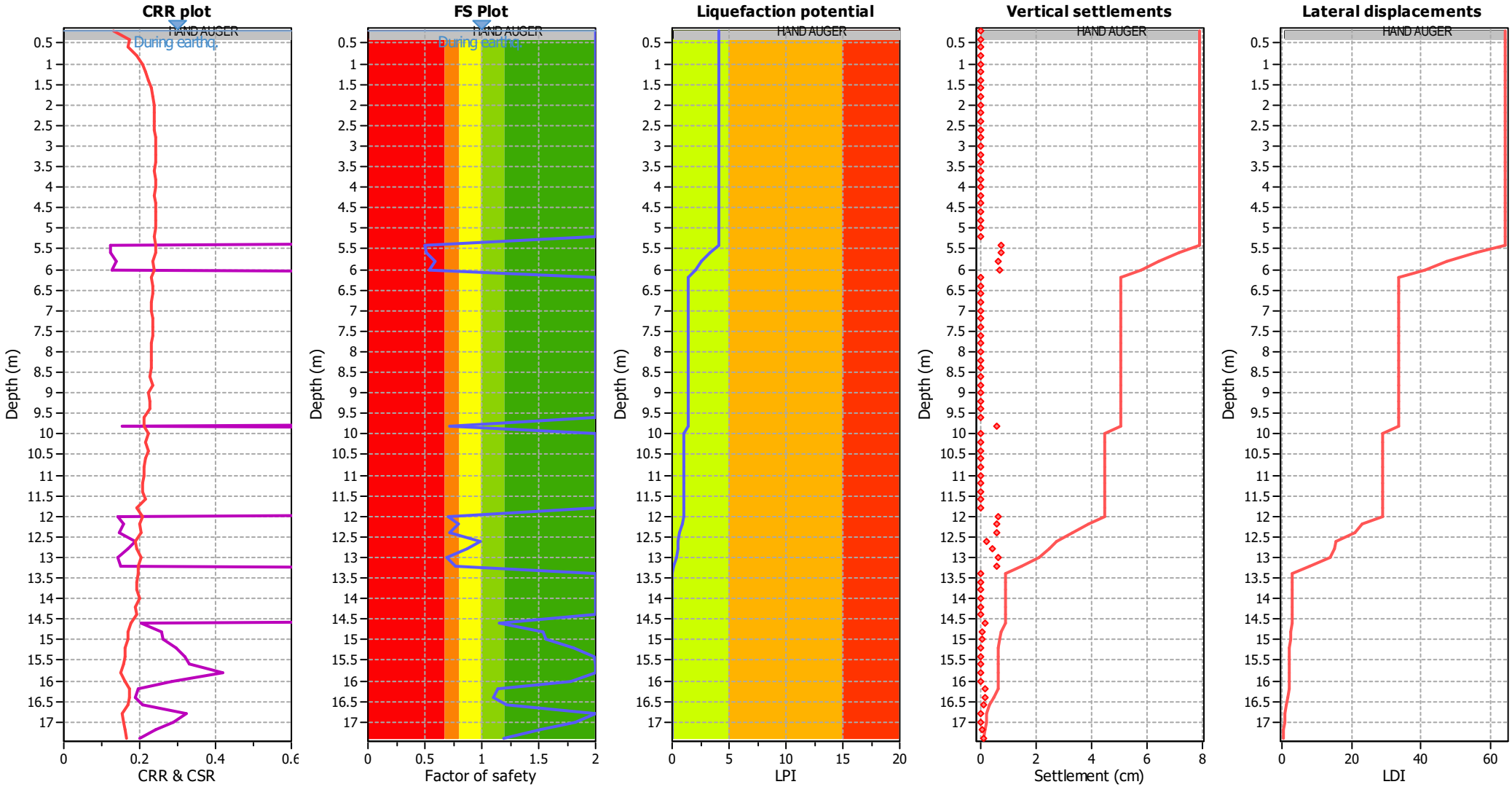






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	0.50	0.50	0.48	0.20	0.72	5.60	0.51	0.49	0.50	0.20	0.70
5.80	0.59	0.00	0.00	0.20	0.58	6.00	0.53	0.47	0.52	0.20	0.65
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	0.71	0.00	0.00	0.20	0.29	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	0.70	0.00	0.00	0.20	0.24
12.20	0.80	0.00	0.00	0.20	0.16	12.40	0.72	0.00	0.00	0.20	0.21
12.60	0.99	0.00	0.00	0.20	0.01	12.80	0.87	0.00	0.00	0.20	0.09
13.00	0.70	0.00	0.00	0.20	0.21	13.20	0.76	0.00	0.00	0.20	0.16
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	1.16	0.00	0.00	0.20	0.00	14.80	1.54	0.00	0.00	0.20	0.00
15.00	1.56	0.00	0.00	0.20	0.00	15.20	1.81	0.00	0.00	0.20	0.00
15.40	1.99	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	1.78	0.00	0.00	0.20	0.00
16.20	1.14	0.00	0.00	0.20	0.00	16.40	1.10	0.00	0.00	0.20	0.00
16.60	1.22	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	1.82	0.00	0.00	0.20	0.00	17.20	1.51	0.00	0.00	0.20	0.00
17.40	1.20	0.00	0.00	0.20	0.00						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 4.04

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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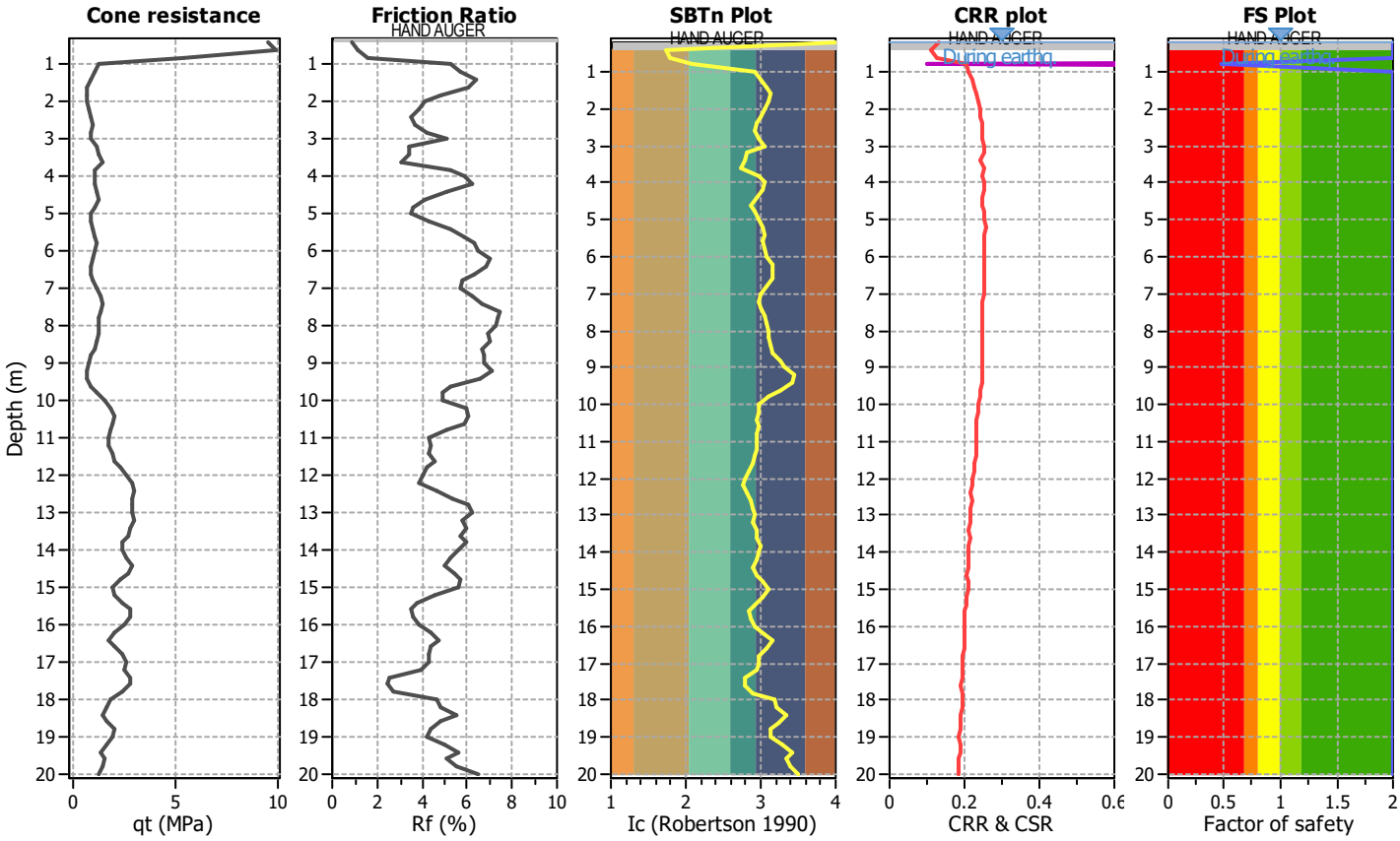
LIQUEFACTION ANALYSIS REPORT

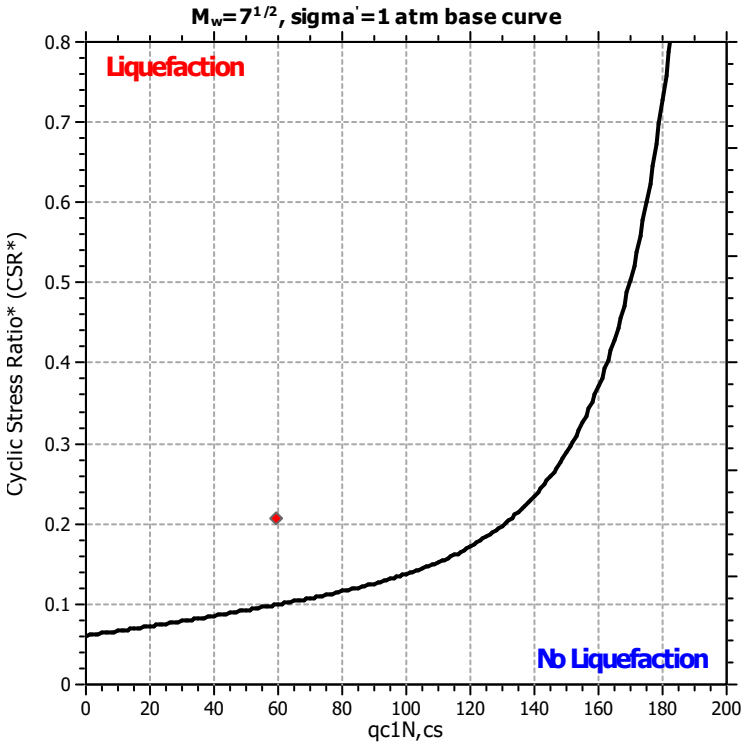
Project title : **Location :**

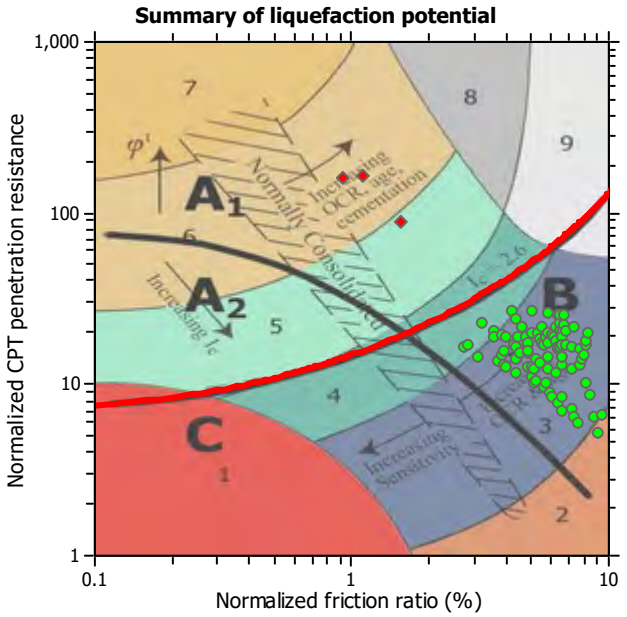
CPT file : SP081

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

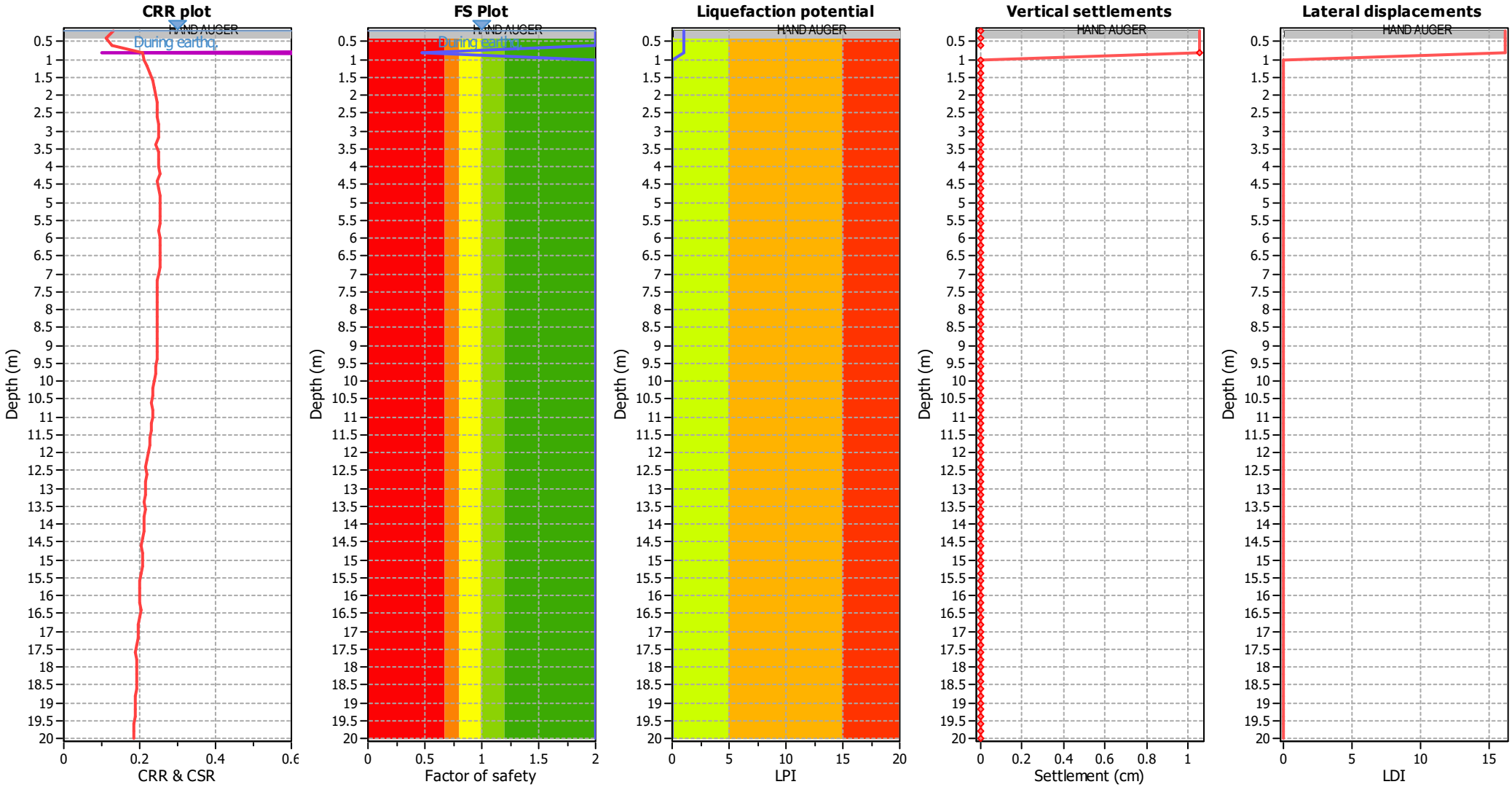






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	0.48	0.52	0.46	0.20	1.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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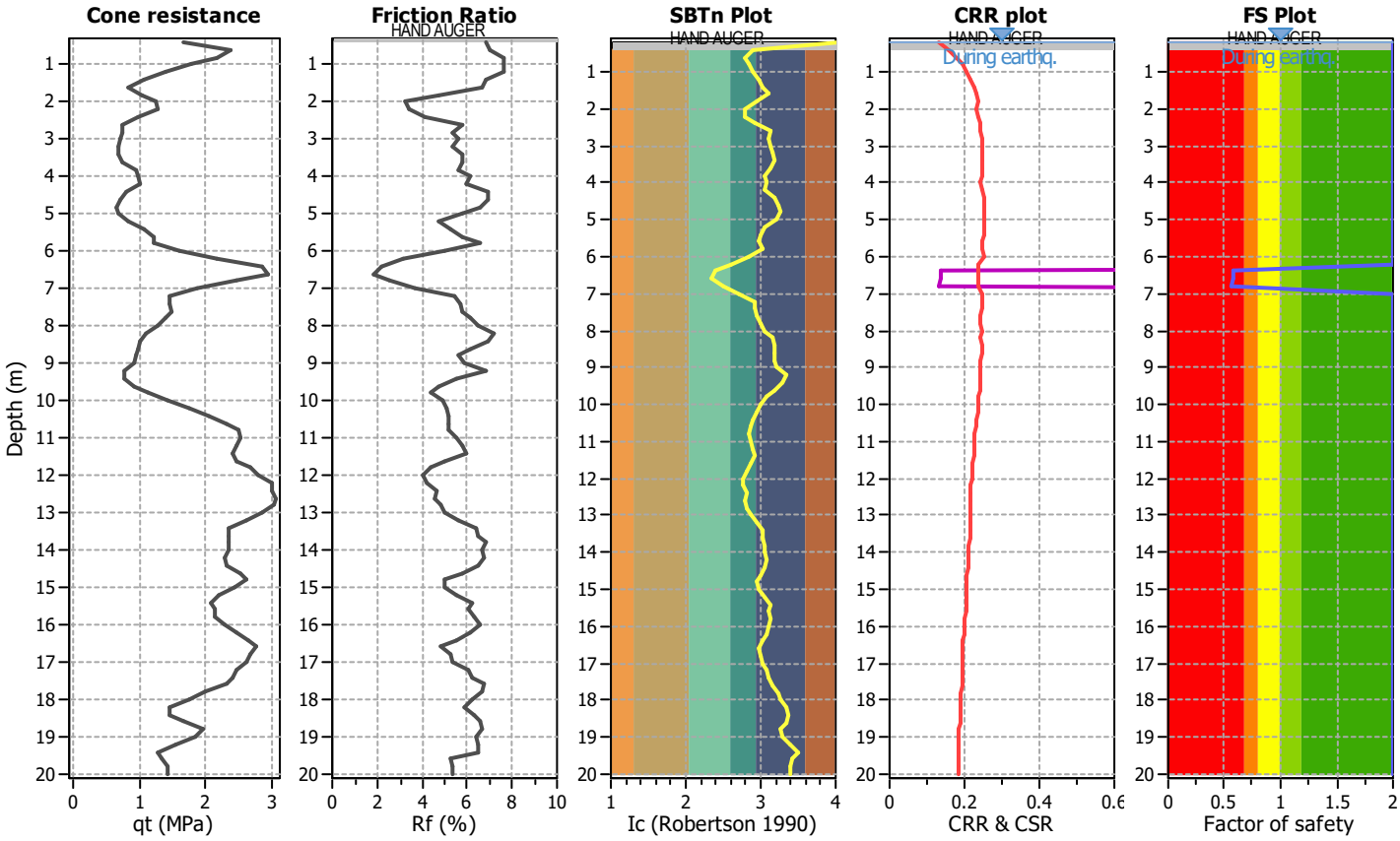
LIQUEFACTION ANALYSIS REPORT

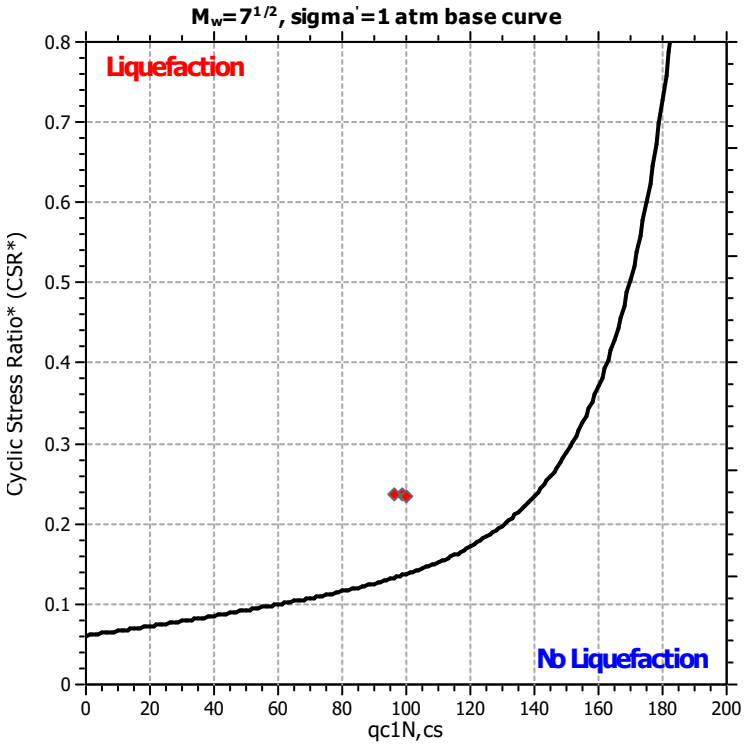
Project title : **Location :**

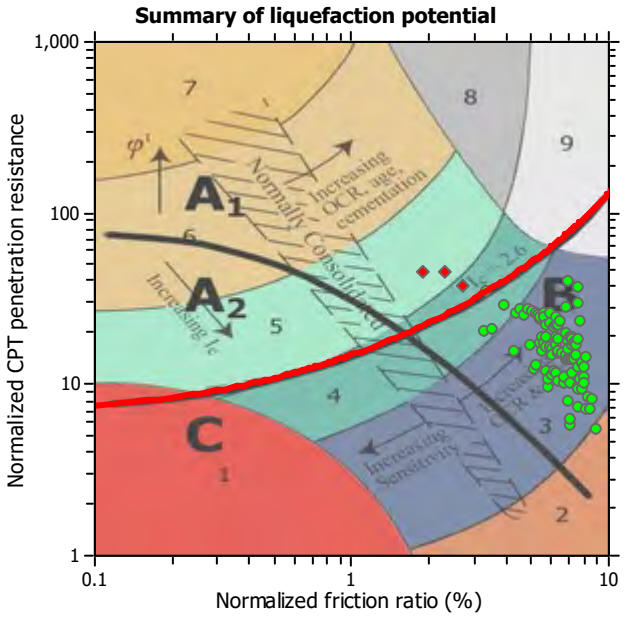
CPT file : SP082

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

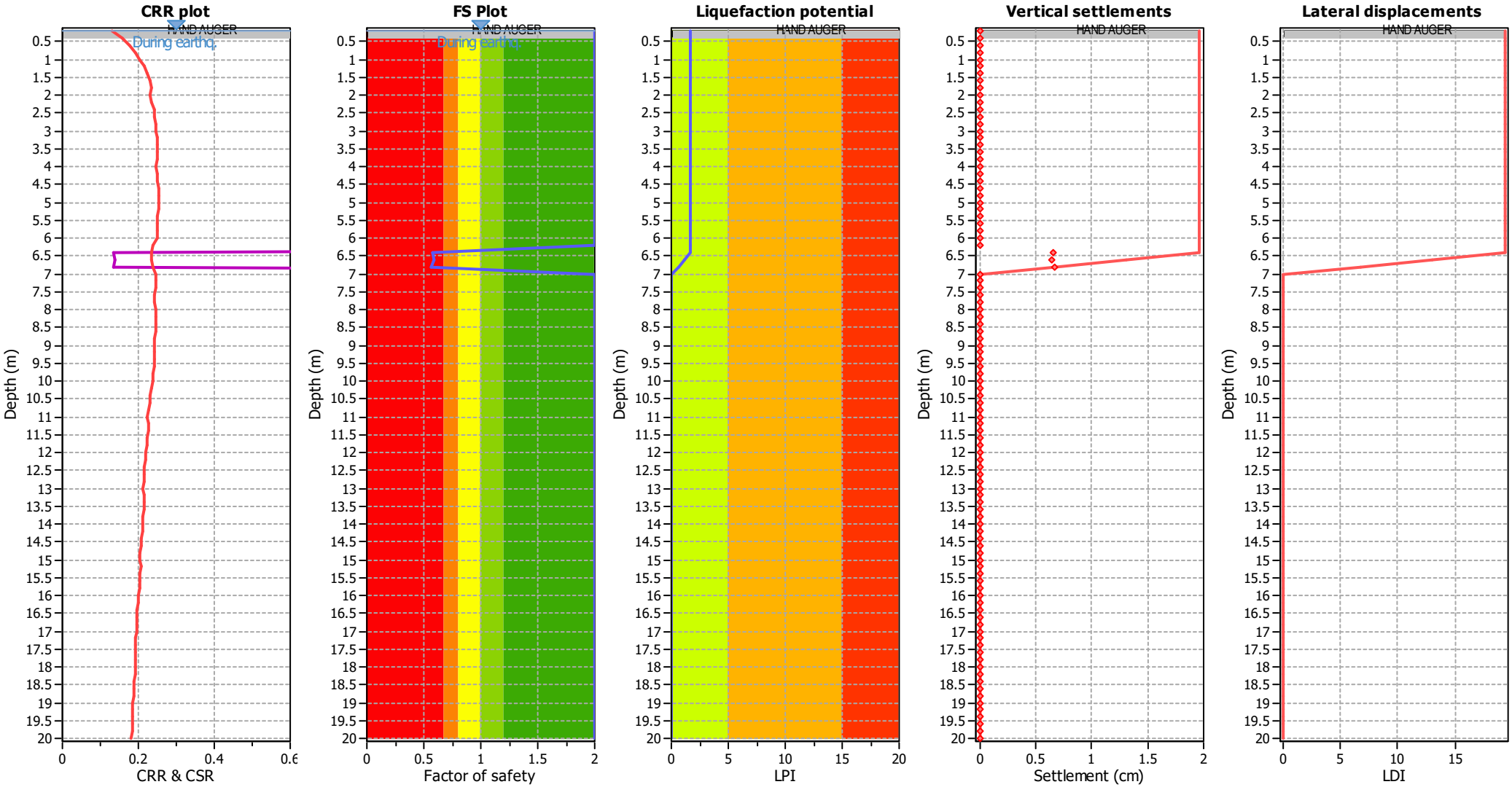






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	0.58	0.00	0.00	0.20	0.58
6.60	0.58	0.00	0.00	0.20	0.56	6.80	0.56	0.00	0.00	0.20	0.58
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.71

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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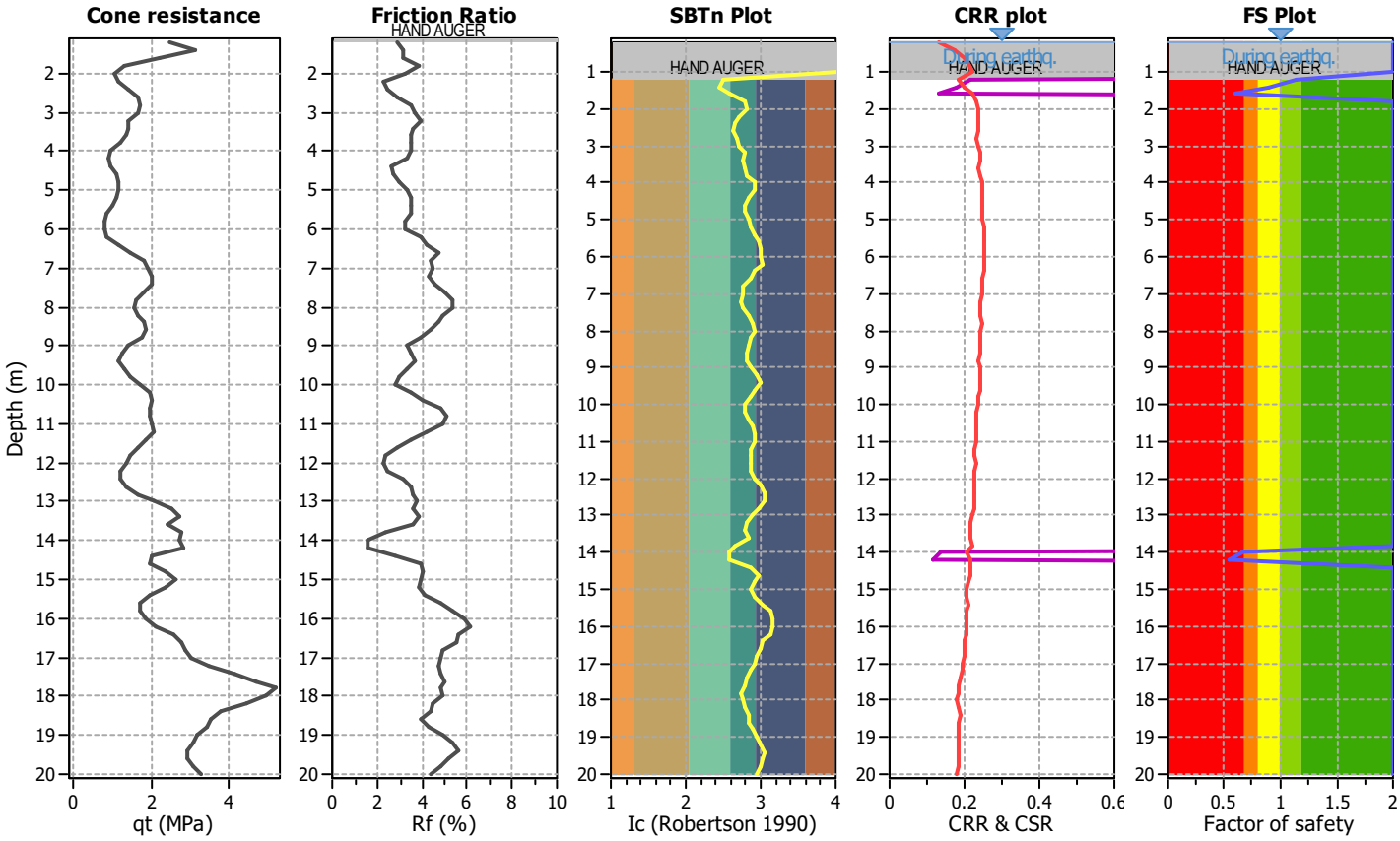
LIQUEFACTION ANALYSIS REPORT

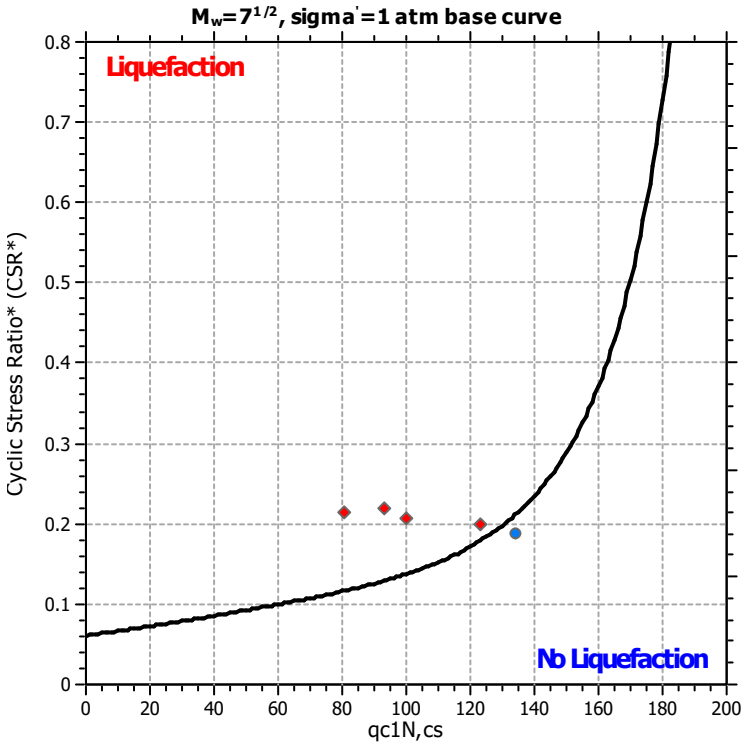
Project title : **Location :**

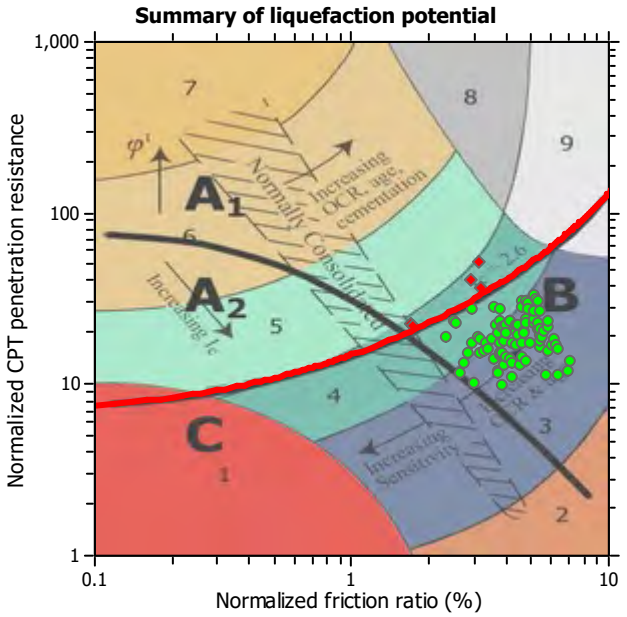
CPT file : SP085

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

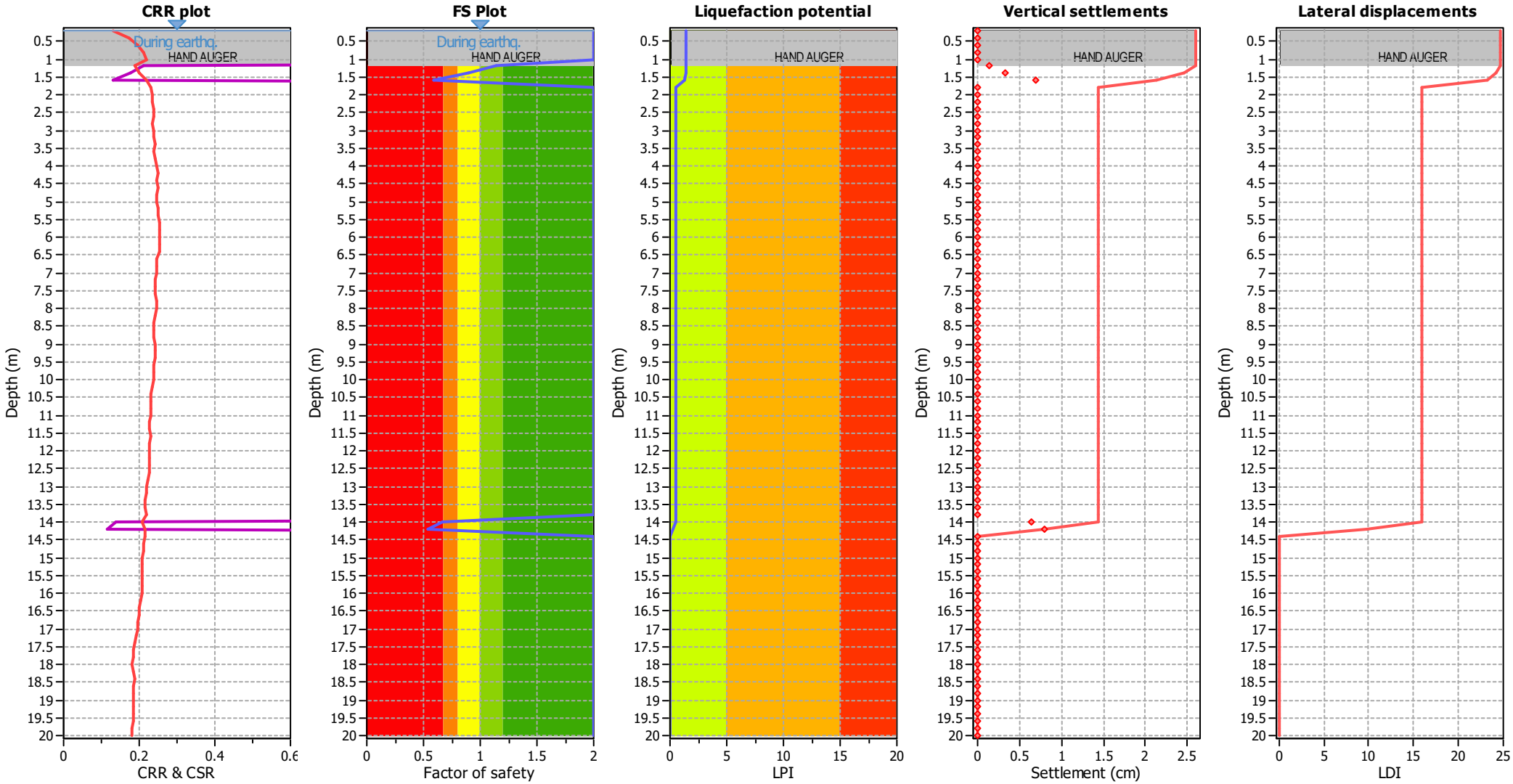






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	1.14	0.00	0.00	0.20	0.00
1.40	0.90	0.10	5.45	0.20	0.20	1.60	0.59	0.41	0.61	0.20	0.76
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	0.66	0.34	0.78	0.20	0.20
14.20	0.54	0.46	0.54	0.20	0.26	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.42

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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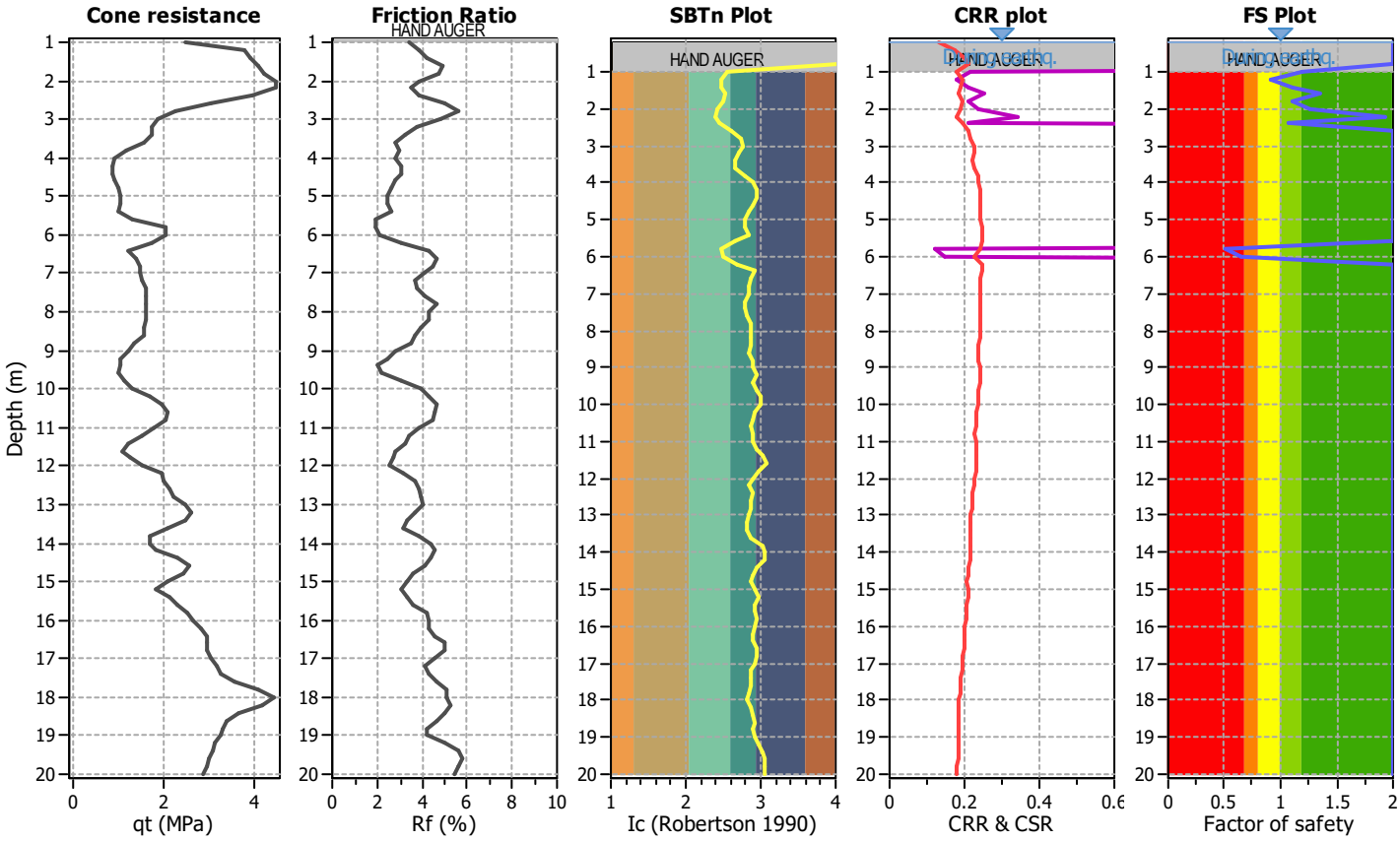
LIQUEFACTION ANALYSIS REPORT

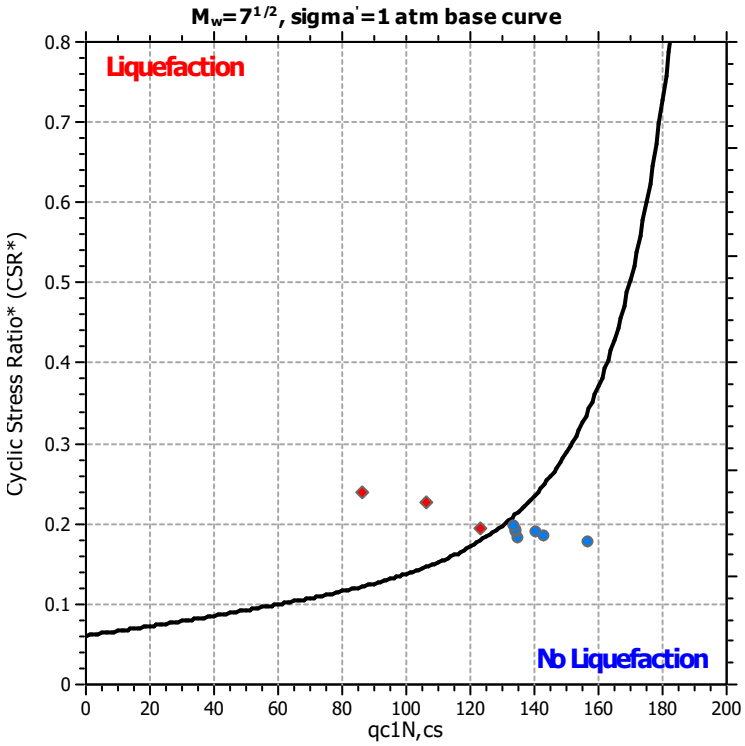
Project title : **Location :**

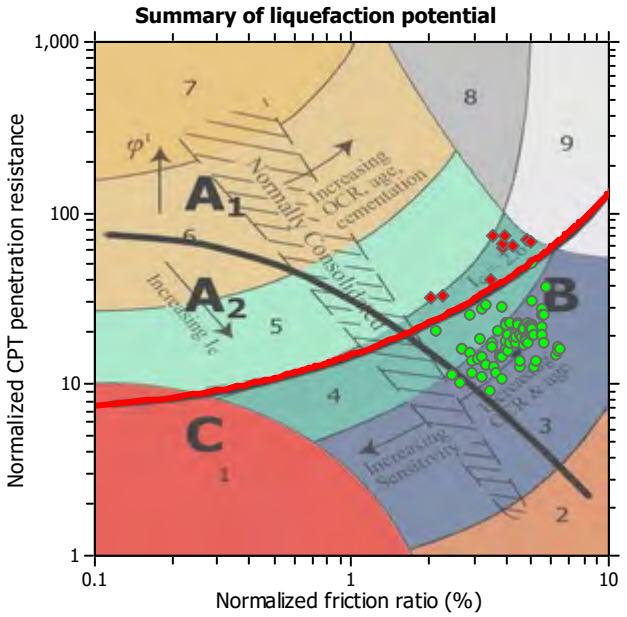
CPT file : SP086

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

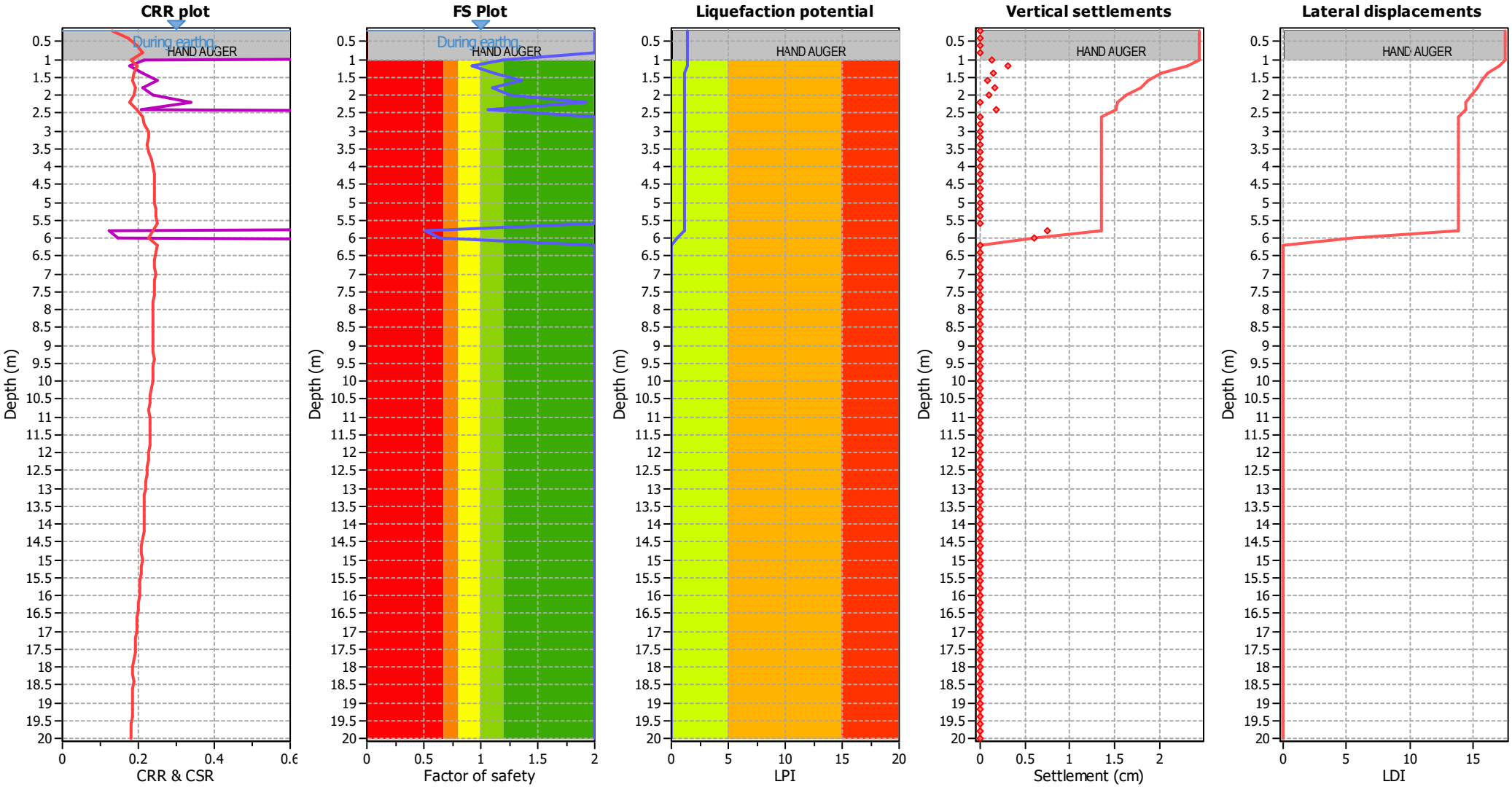






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	1.19	0.00	0.00	0.20	0.00	1.20	0.92	0.08	10.23	0.20	0.15
1.40	1.11	0.00	0.00	0.20	0.00	1.60	1.36	0.00	0.00	0.20	0.00
1.80	1.10	0.00	0.00	0.20	0.00	2.00	1.26	0.00	0.00	0.20	0.00
2.20	1.93	0.00	0.00	0.20	0.00	2.40	1.07	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	0.51	0.49	0.49	0.20	0.70	6.00	0.64	0.36	0.73	0.20	0.50
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.35

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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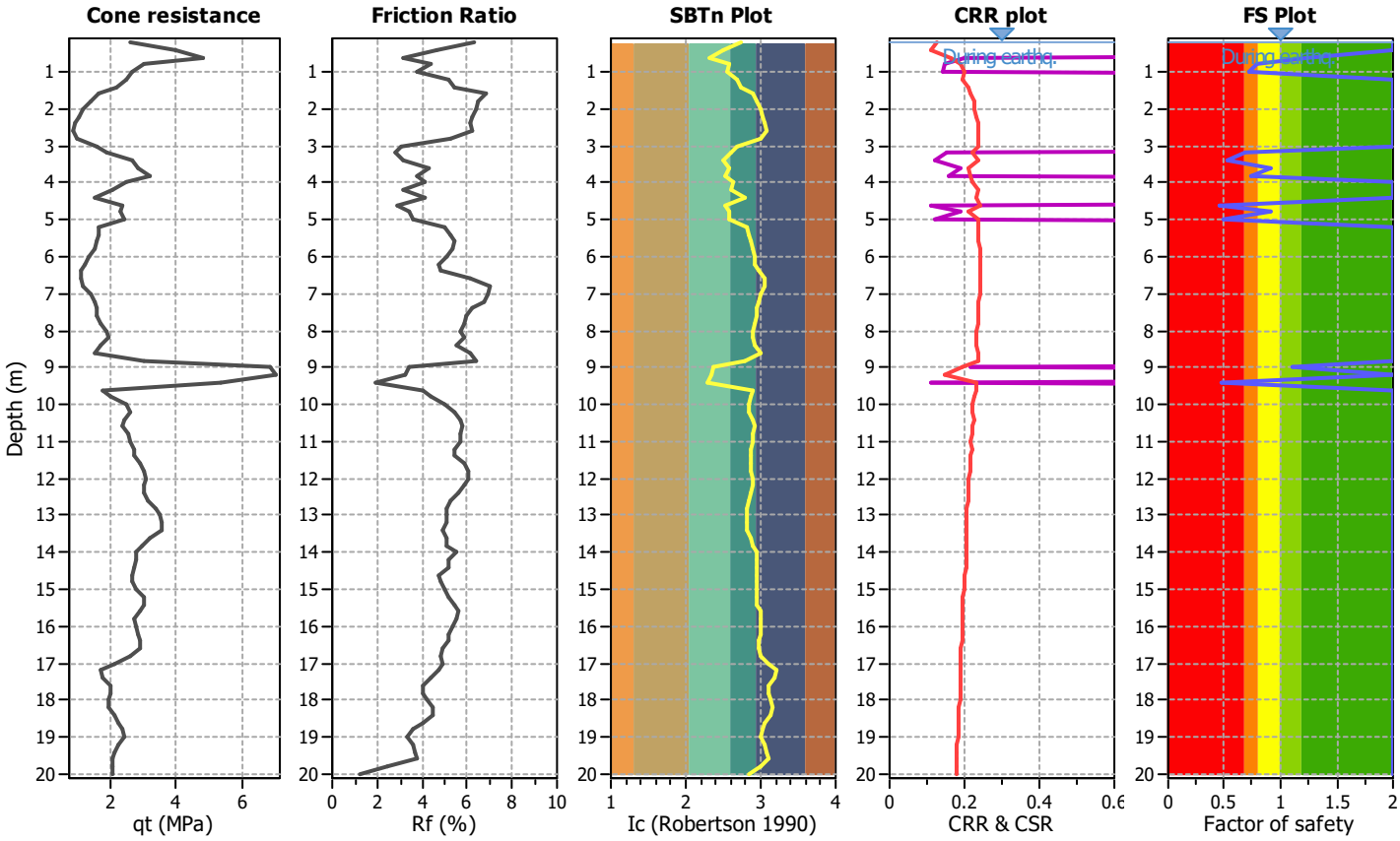
LIQUEFACTION ANALYSIS REPORT

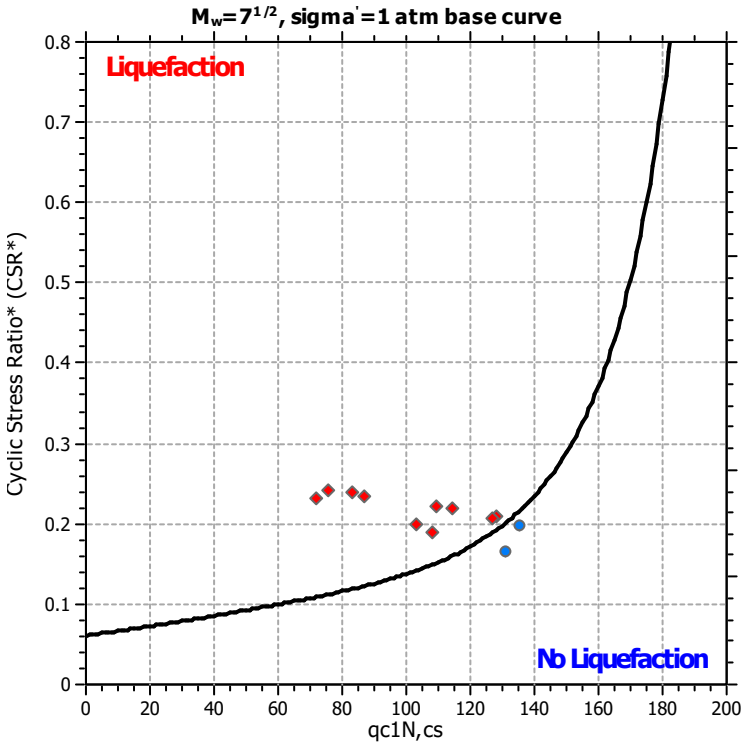
Project title : **Location :**

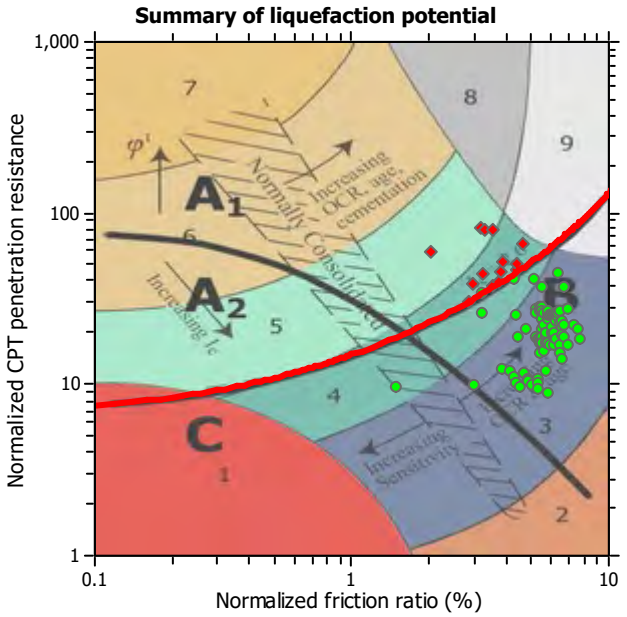
CPT file : SP094

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

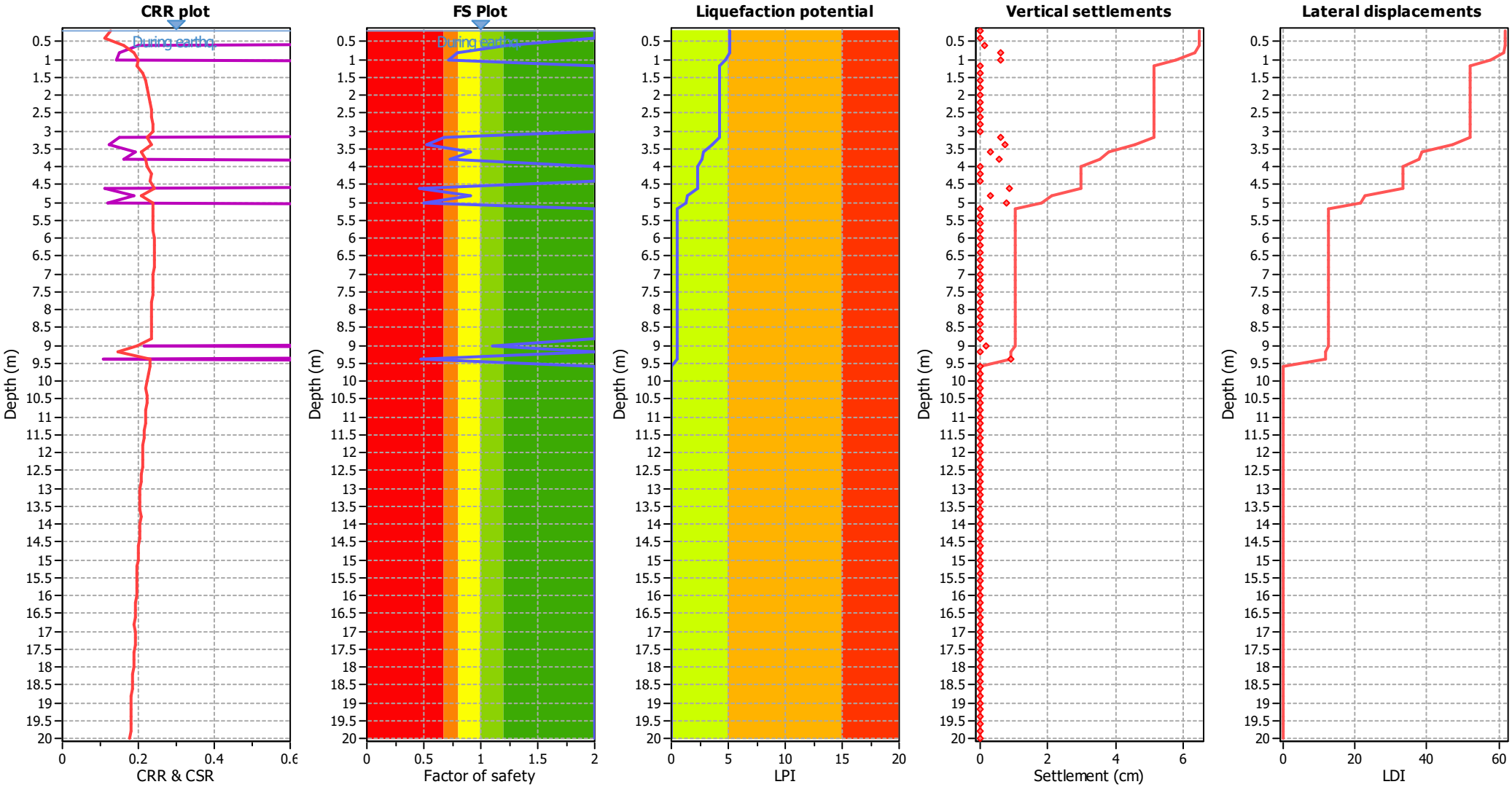






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	1.23	0.00	0.00	0.20	0.00	0.80	0.79	0.00	0.00	0.20	0.40
1.00	0.71	0.00	0.00	0.20	0.54	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	0.68	0.32	0.84	0.20	0.54
3.40	0.52	0.48	0.50	0.20	0.79	3.60	0.91	0.00	0.00	0.20	0.14
3.80	0.73	0.00	0.00	0.20	0.43	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	0.46	0.54	0.44	0.20	0.82	4.80	0.90	0.00	0.00	0.20	0.15
5.00	0.50	0.50	0.48	0.20	0.75	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	1.10	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	0.47	0.53	0.45	0.20	0.56	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 5.14

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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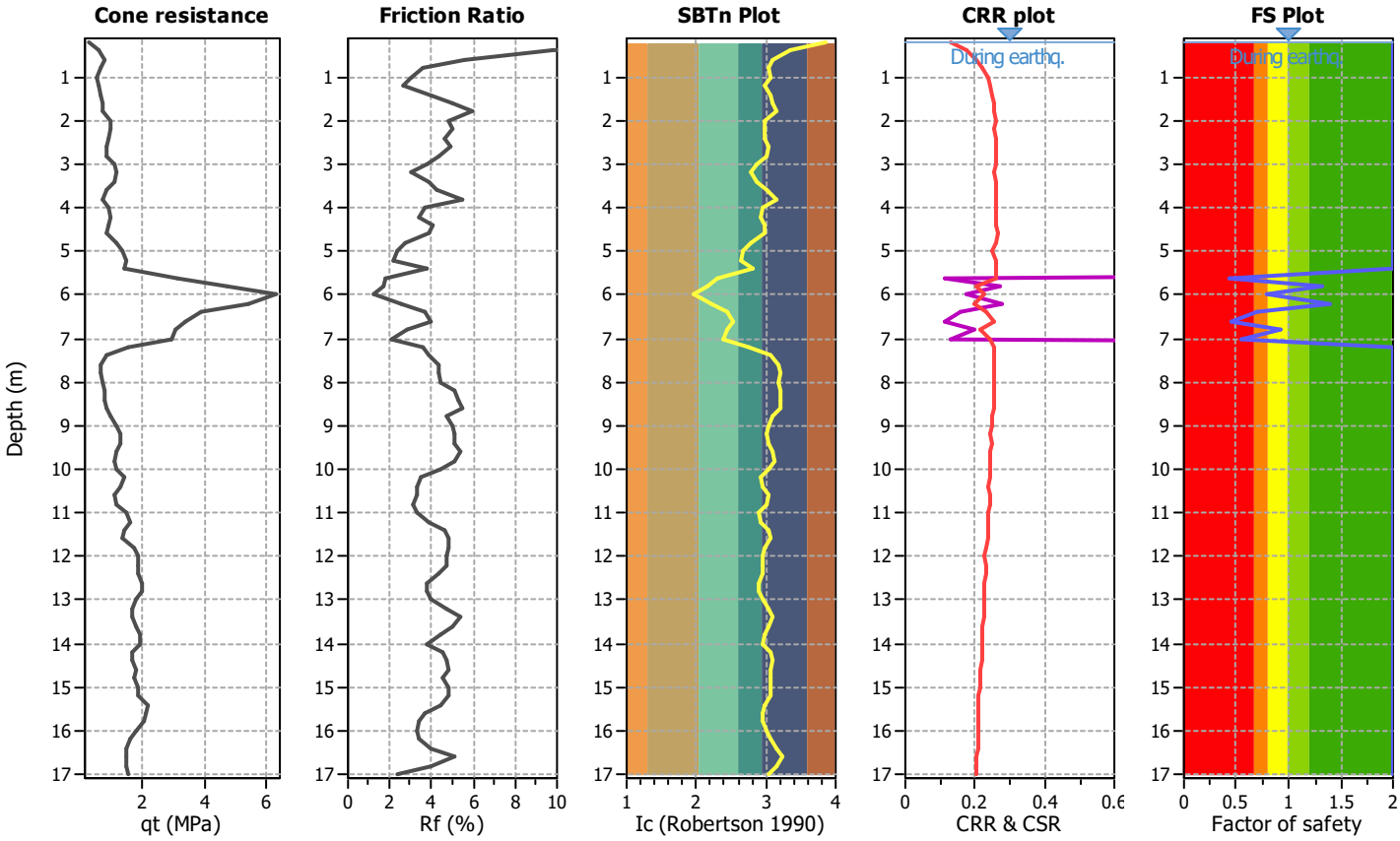
LIQUEFACTION ANALYSIS REPORT

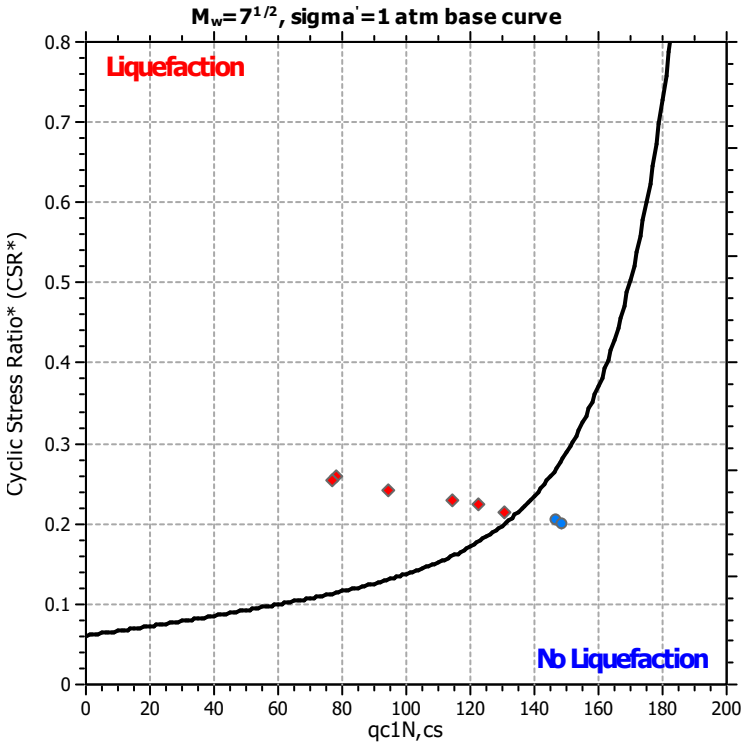
Project title : **Location :**

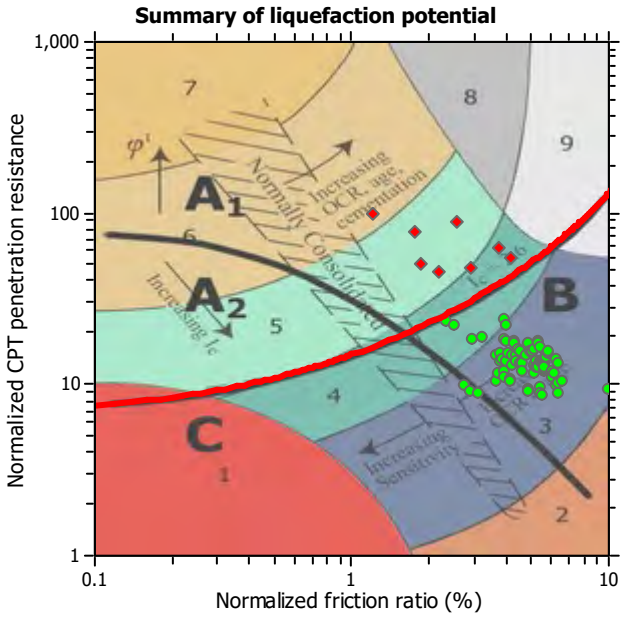
CPT file : SP095

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

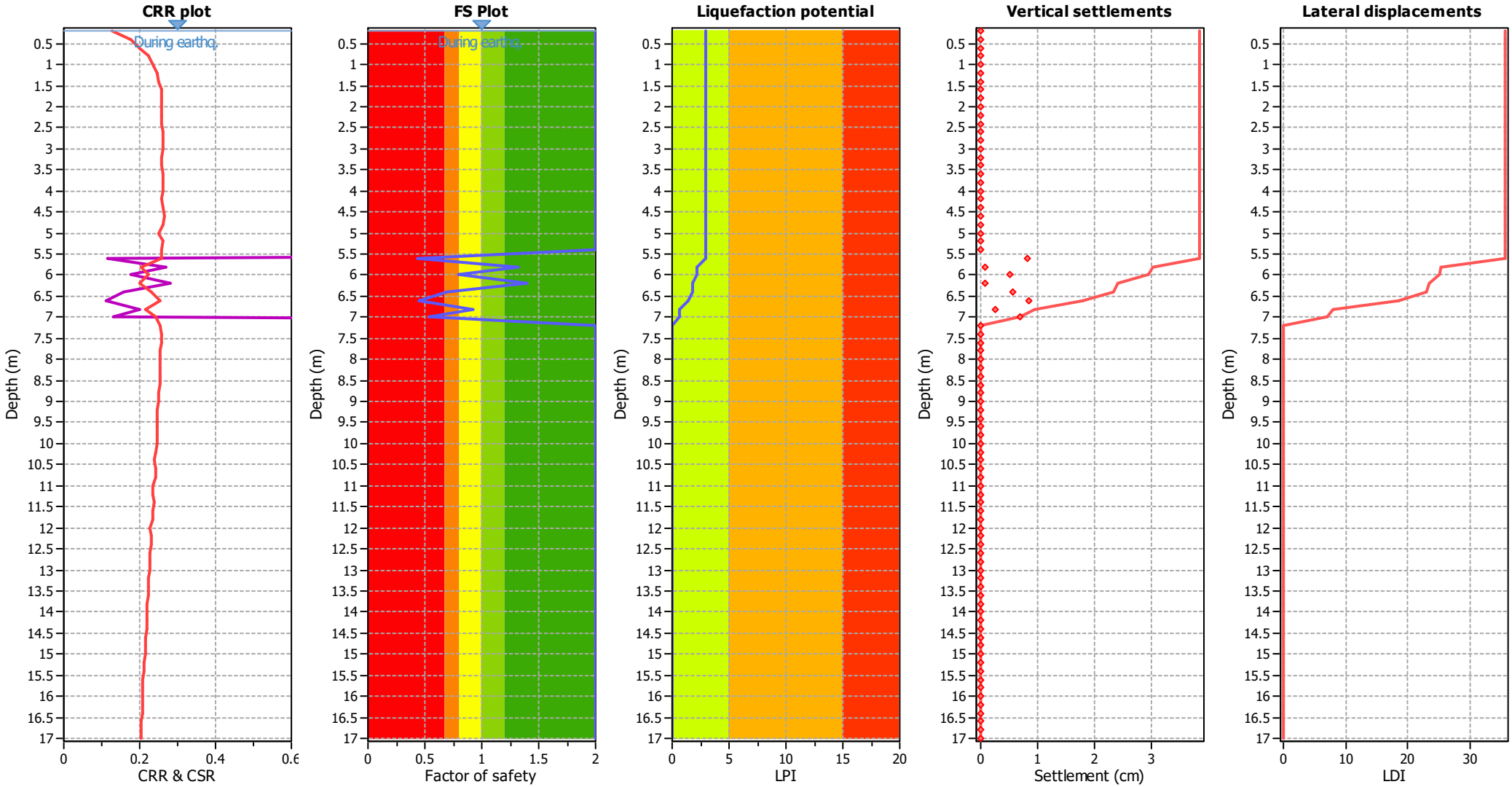






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	0.44	0.00	0.00	0.20	0.80
5.80	1.32	0.00	0.00	0.20	0.00	6.00	0.79	0.00	0.00	0.20	0.29
6.20	1.39	0.00	0.00	0.20	0.00	6.40	0.69	0.00	0.00	0.20	0.42
6.60	0.45	0.55	0.42	0.20	0.74	6.80	0.93	0.00	0.00	0.20	0.10
7.00	0.54	0.00	0.00	0.20	0.60	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 2.95

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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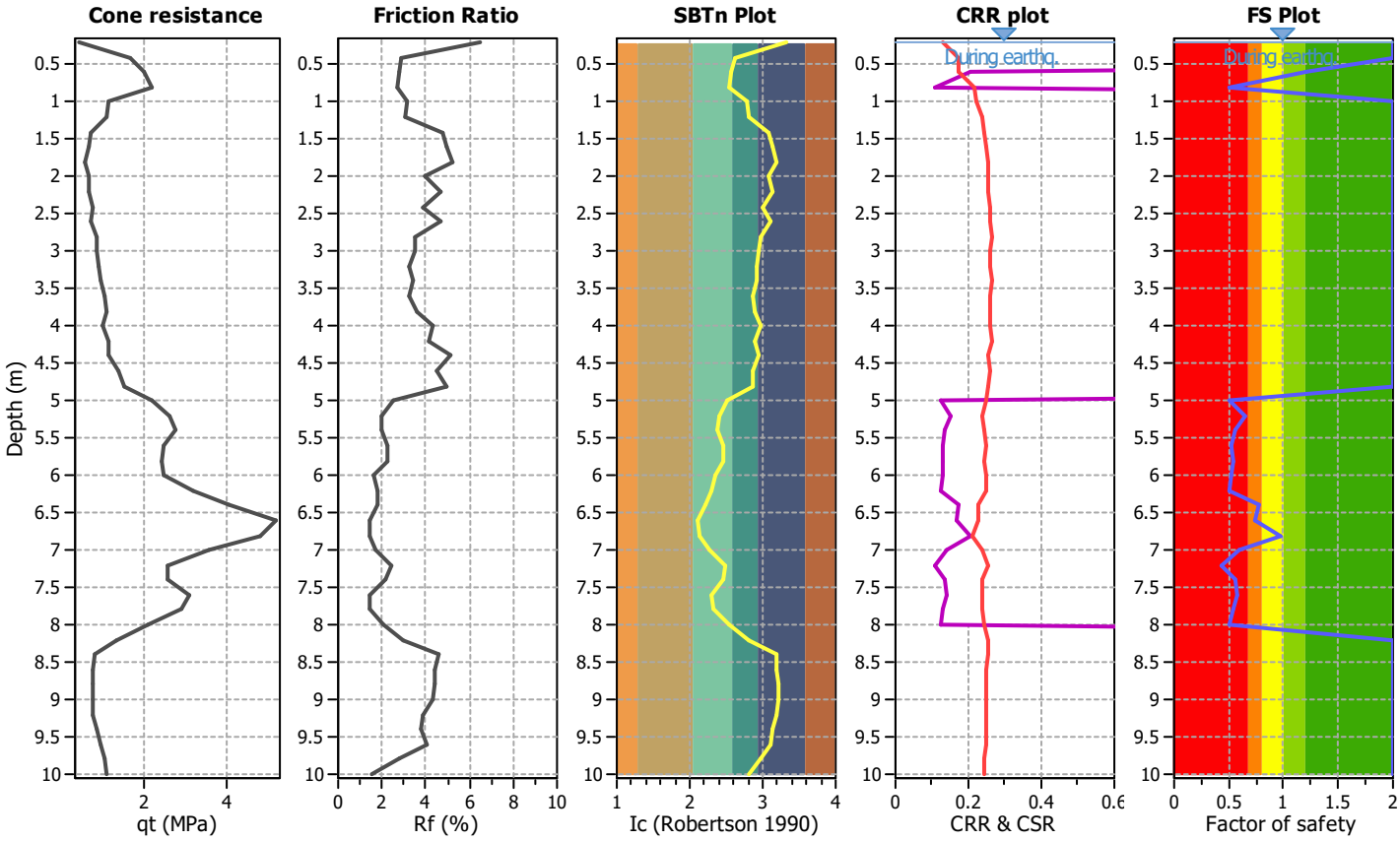
LIQUEFACTION ANALYSIS REPORT

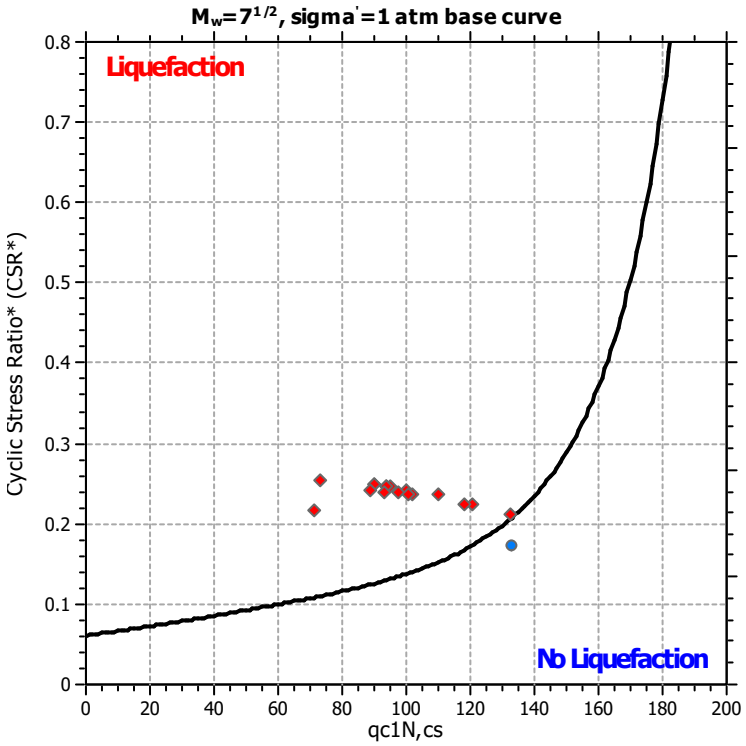
Project title : **Location :**

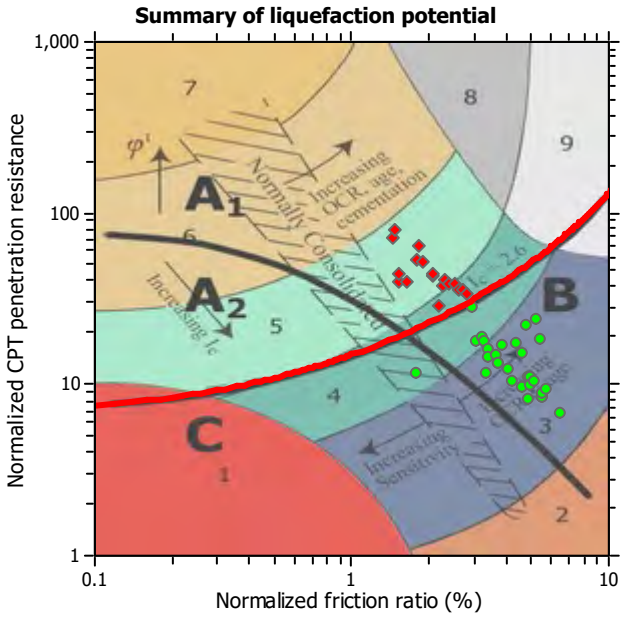
CPT file : SP096

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

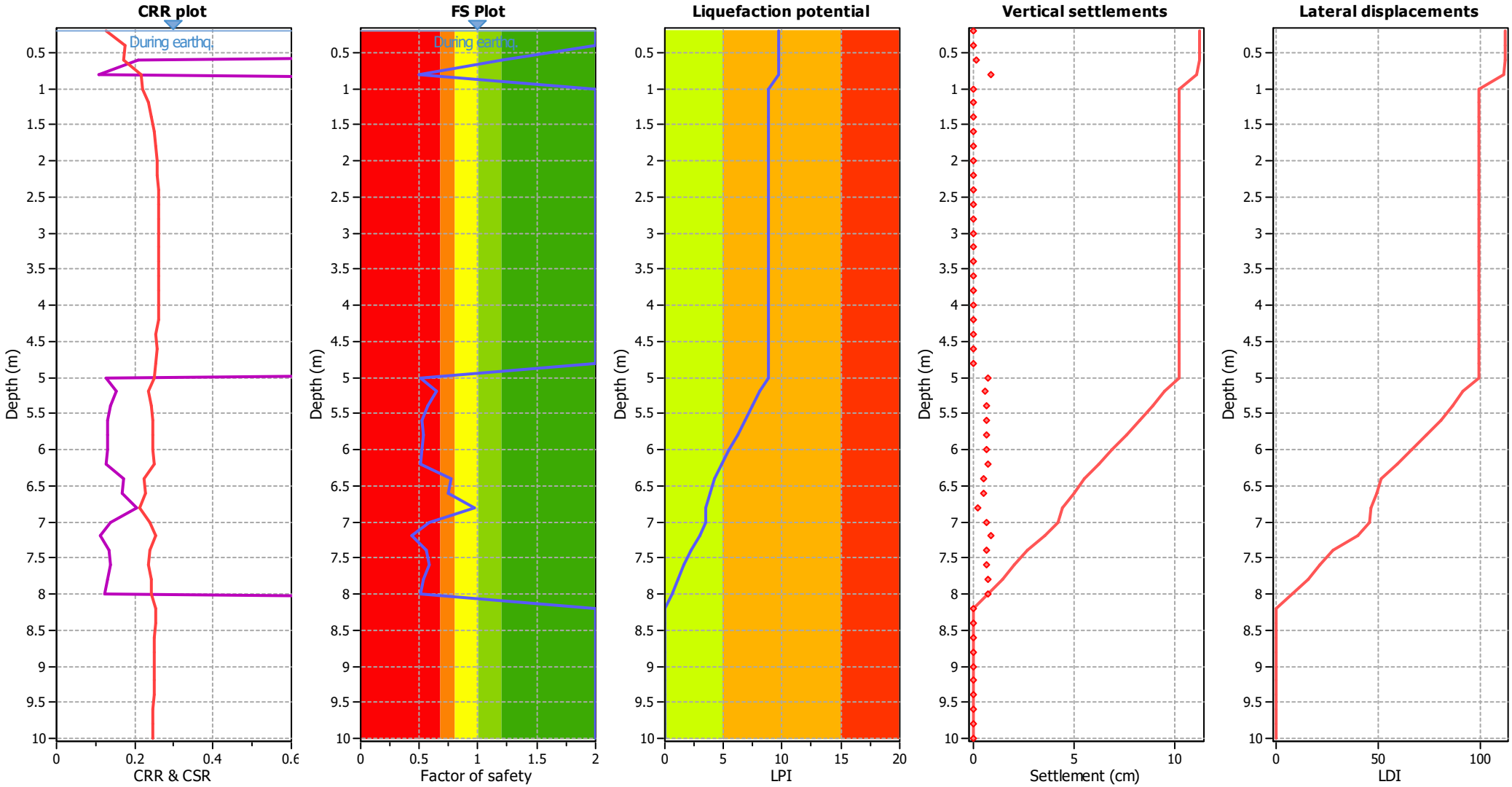






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	1.21	0.00	0.00	0.20	0.00	0.80	0.50	0.00	0.00	0.20	0.96
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	0.50	0.50	0.48	0.20	0.74	5.20	0.65	0.00	0.00	0.20	0.53
5.40	0.57	0.43	0.57	0.20	0.63	5.60	0.53	0.47	0.51	0.20	0.68
5.80	0.54	0.46	0.52	0.20	0.66	6.00	0.53	0.47	0.51	0.20	0.66
6.20	0.51	0.49	0.49	0.20	0.68	6.40	0.77	0.00	0.00	0.20	0.32
6.60	0.74	0.00	0.00	0.20	0.34	6.80	0.96	0.00	0.00	0.20	0.05
7.00	0.59	0.00	0.00	0.20	0.54	7.20	0.44	0.56	0.41	0.20	0.72
7.40	0.56	0.44	0.57	0.20	0.55	7.60	0.58	0.00	0.00	0.20	0.52
7.80	0.54	0.46	0.53	0.20	0.56	8.00	0.51	0.49	0.49	0.20	0.59
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 9.73

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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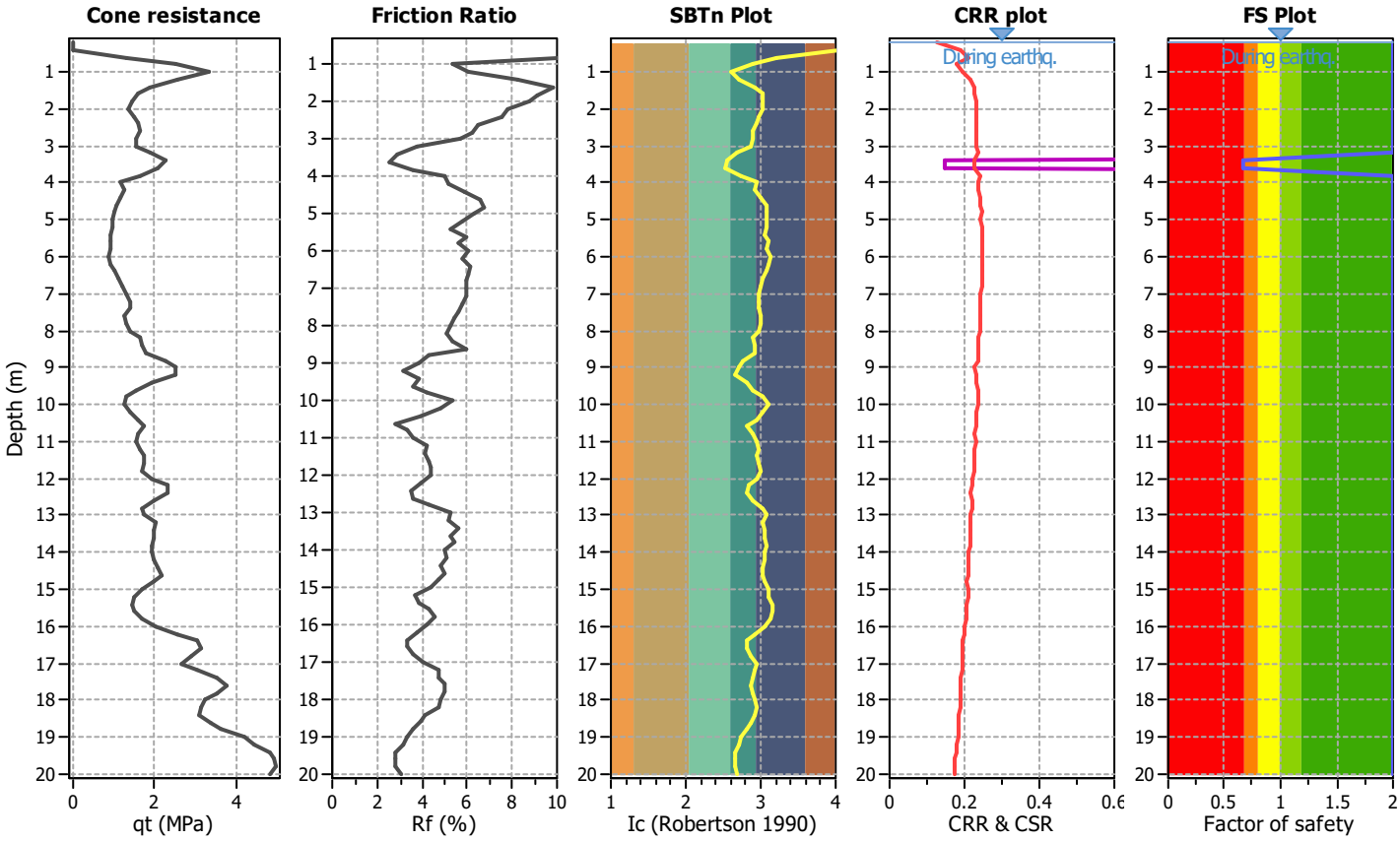
LIQUEFACTION ANALYSIS REPORT

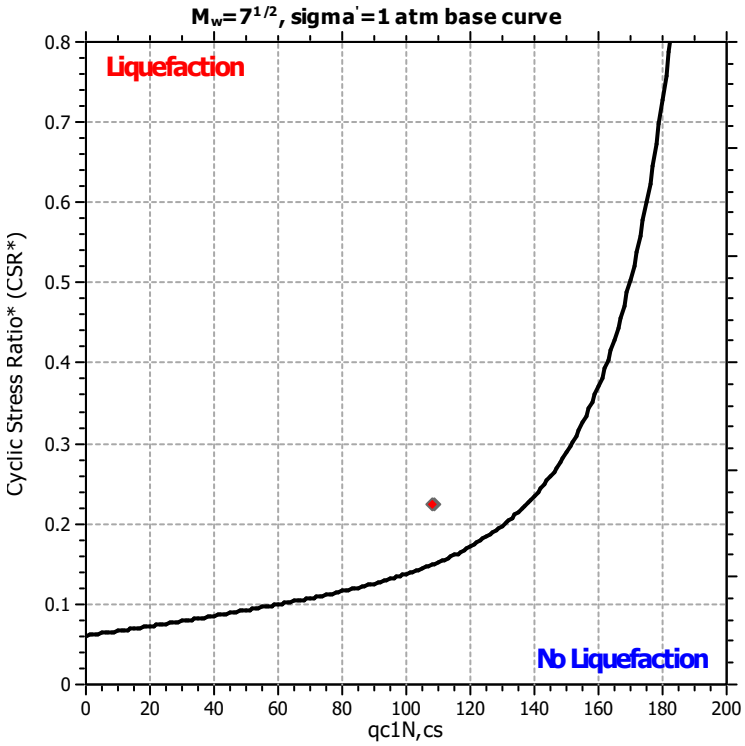
Project title : **Location :**

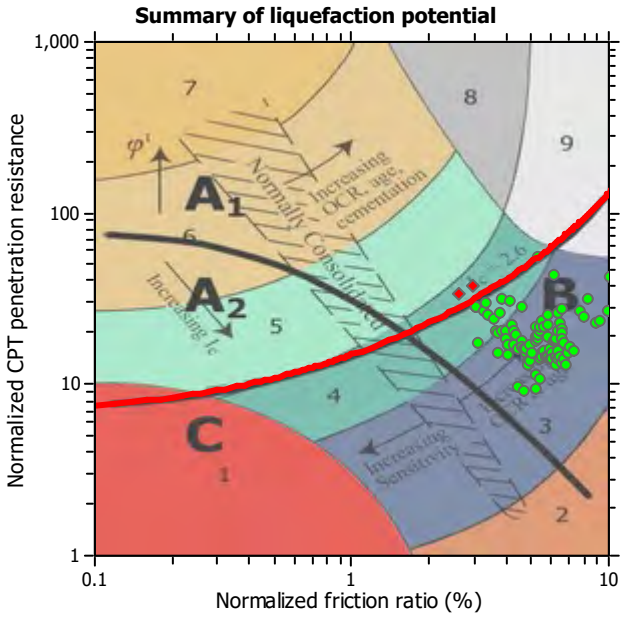
CPT file : SP097

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

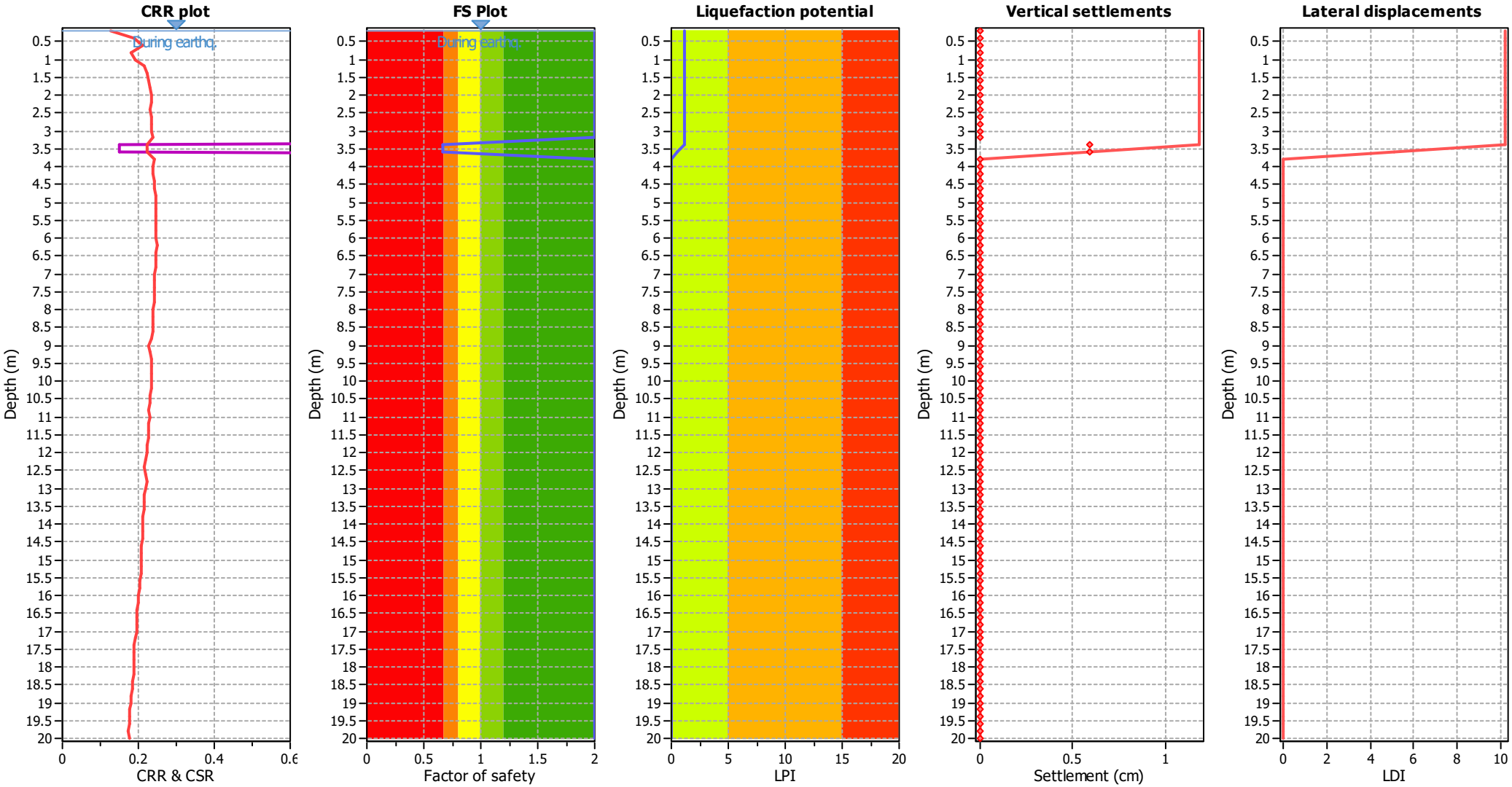






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	0.67	0.33	0.81	0.20	0.55	3.60	0.67	0.33	0.80	0.20	0.55
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.09

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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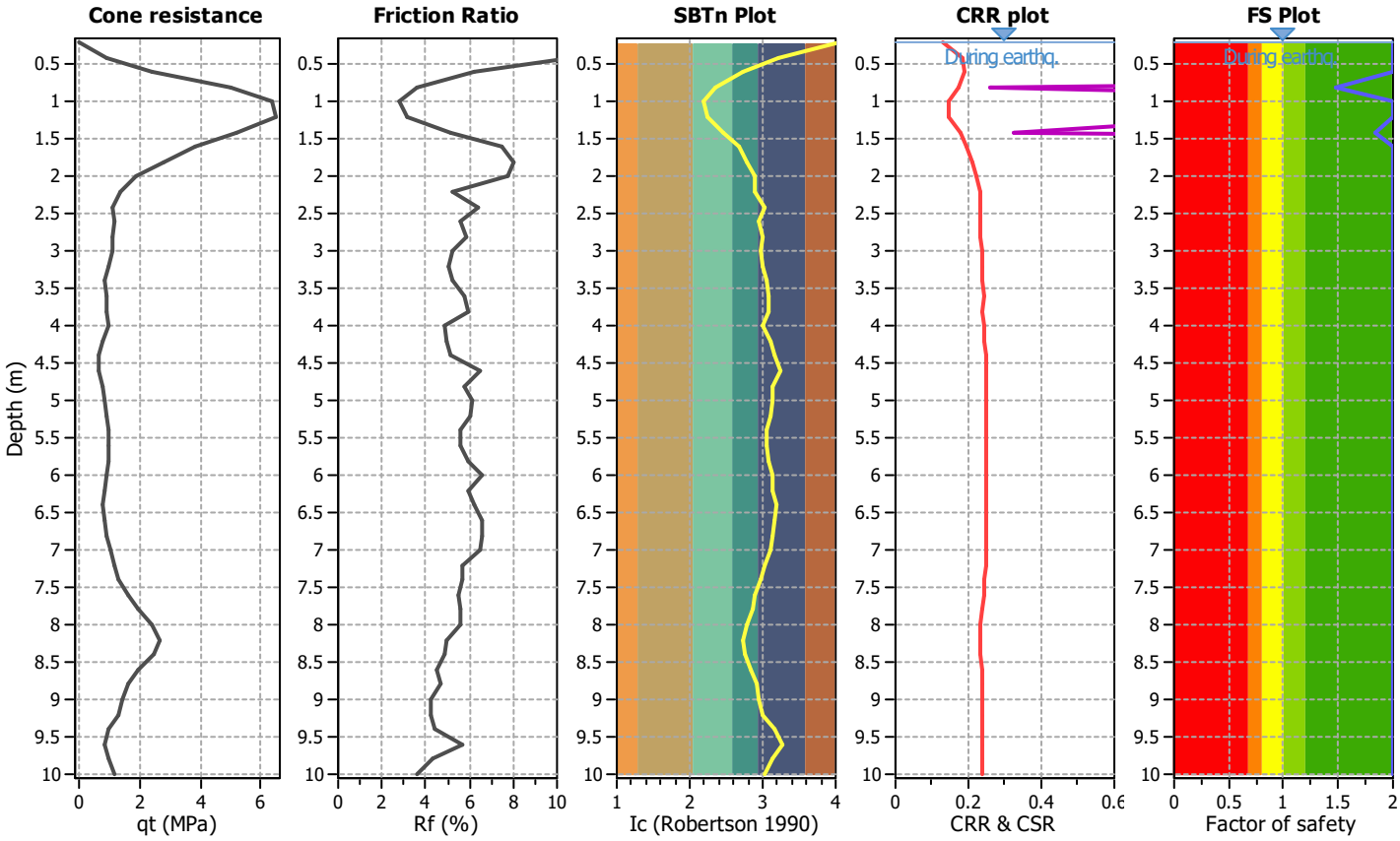
LIQUEFACTION ANALYSIS REPORT

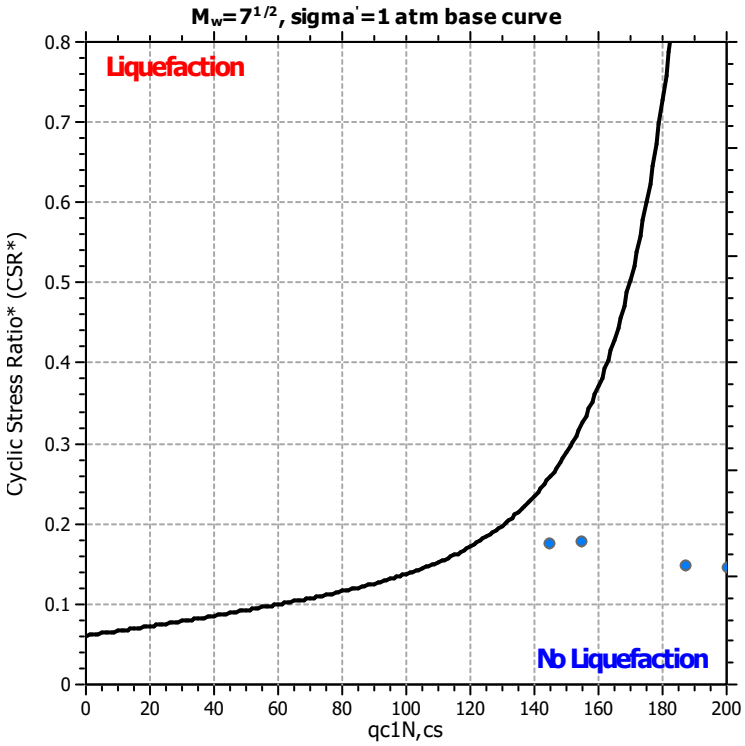
Project title : **Location :**

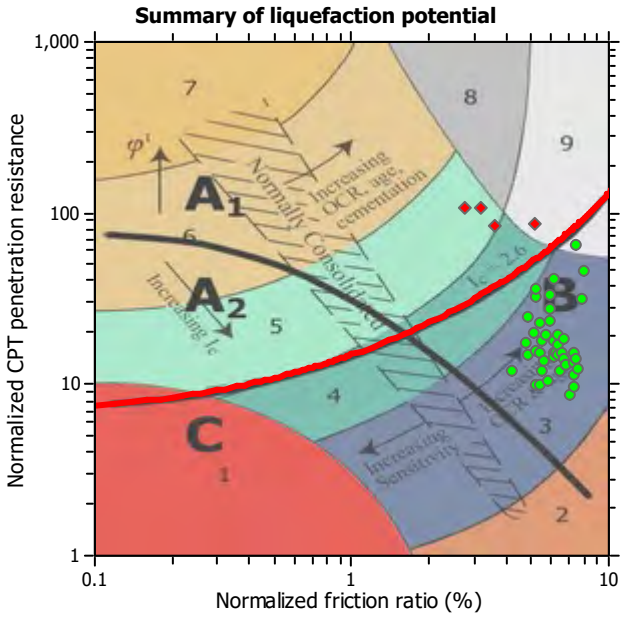
CPT file : SP098

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

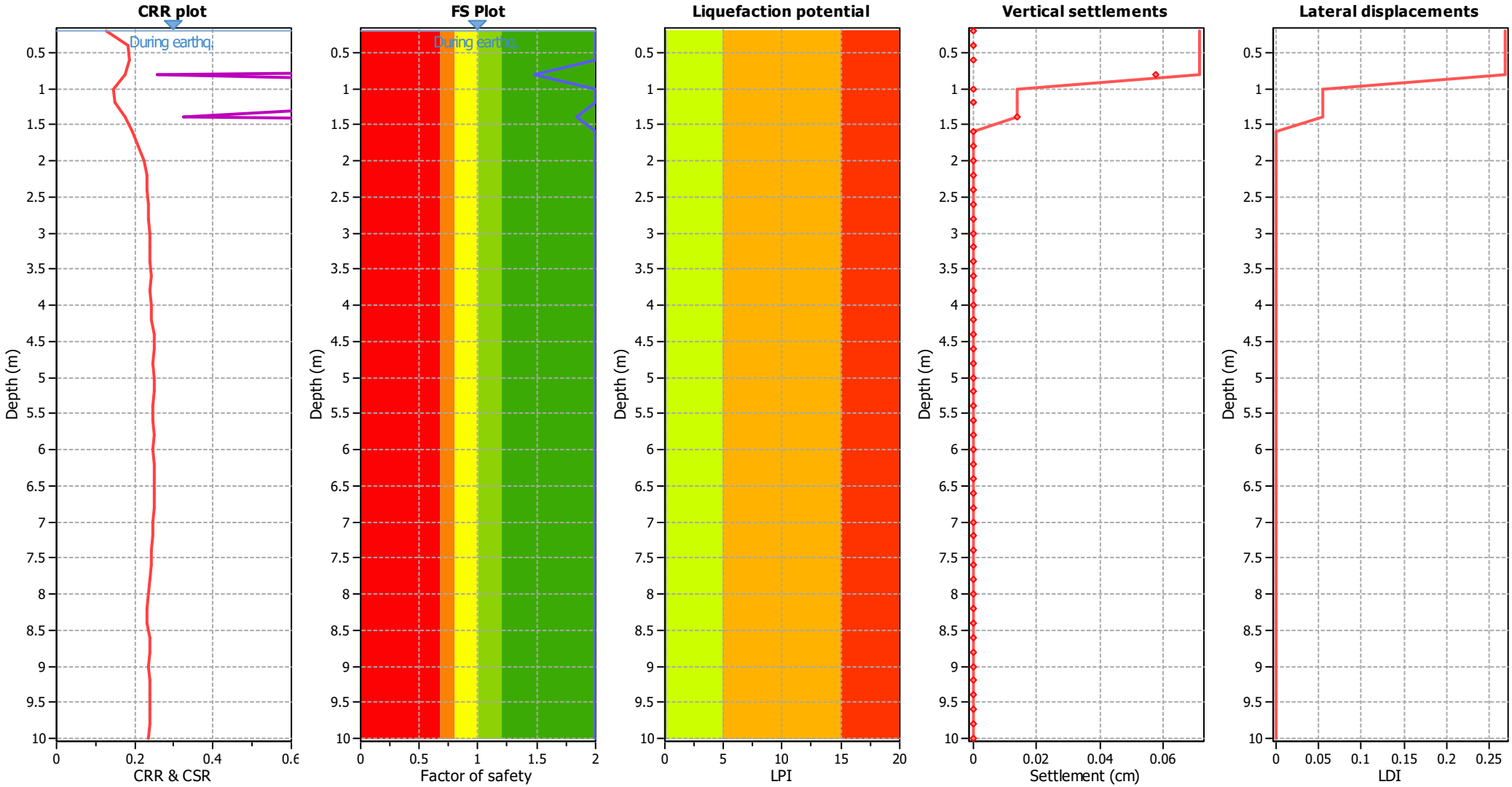






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	1.48	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	1.84	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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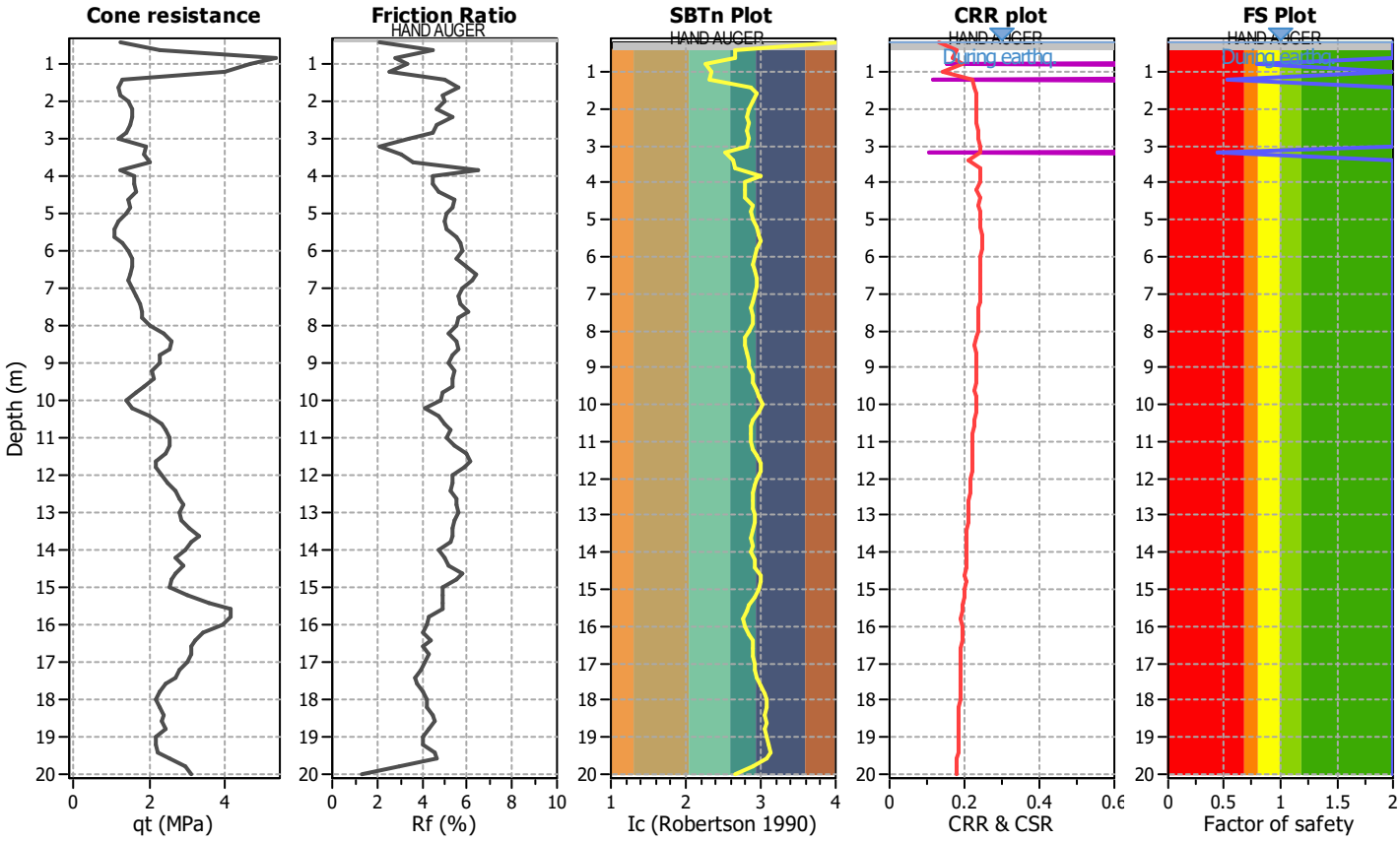
LIQUEFACTION ANALYSIS REPORT

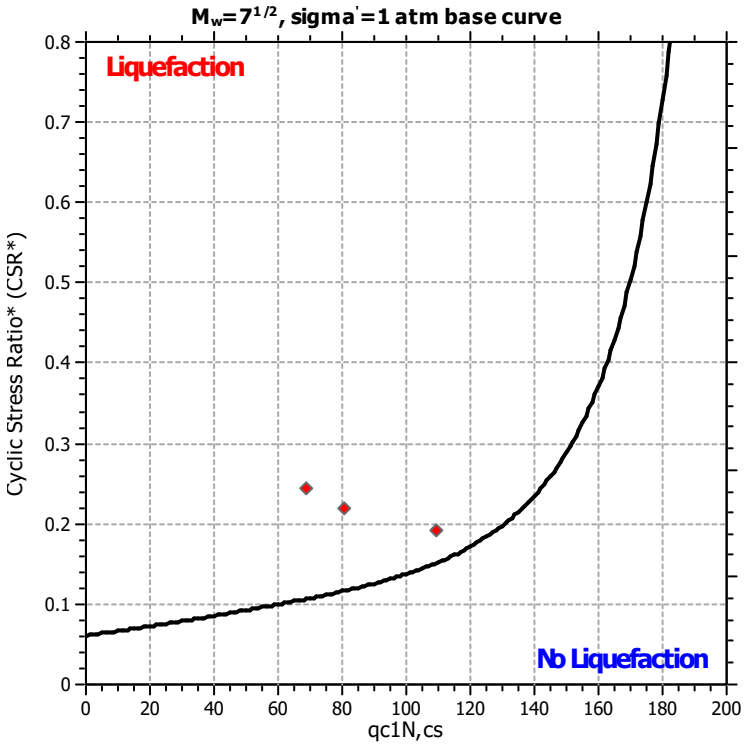
Project title : **Location :**

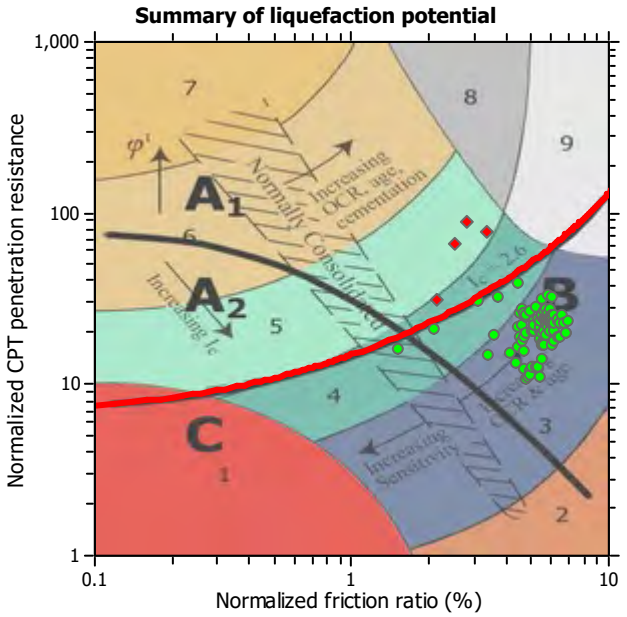
CPT file : SP101

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

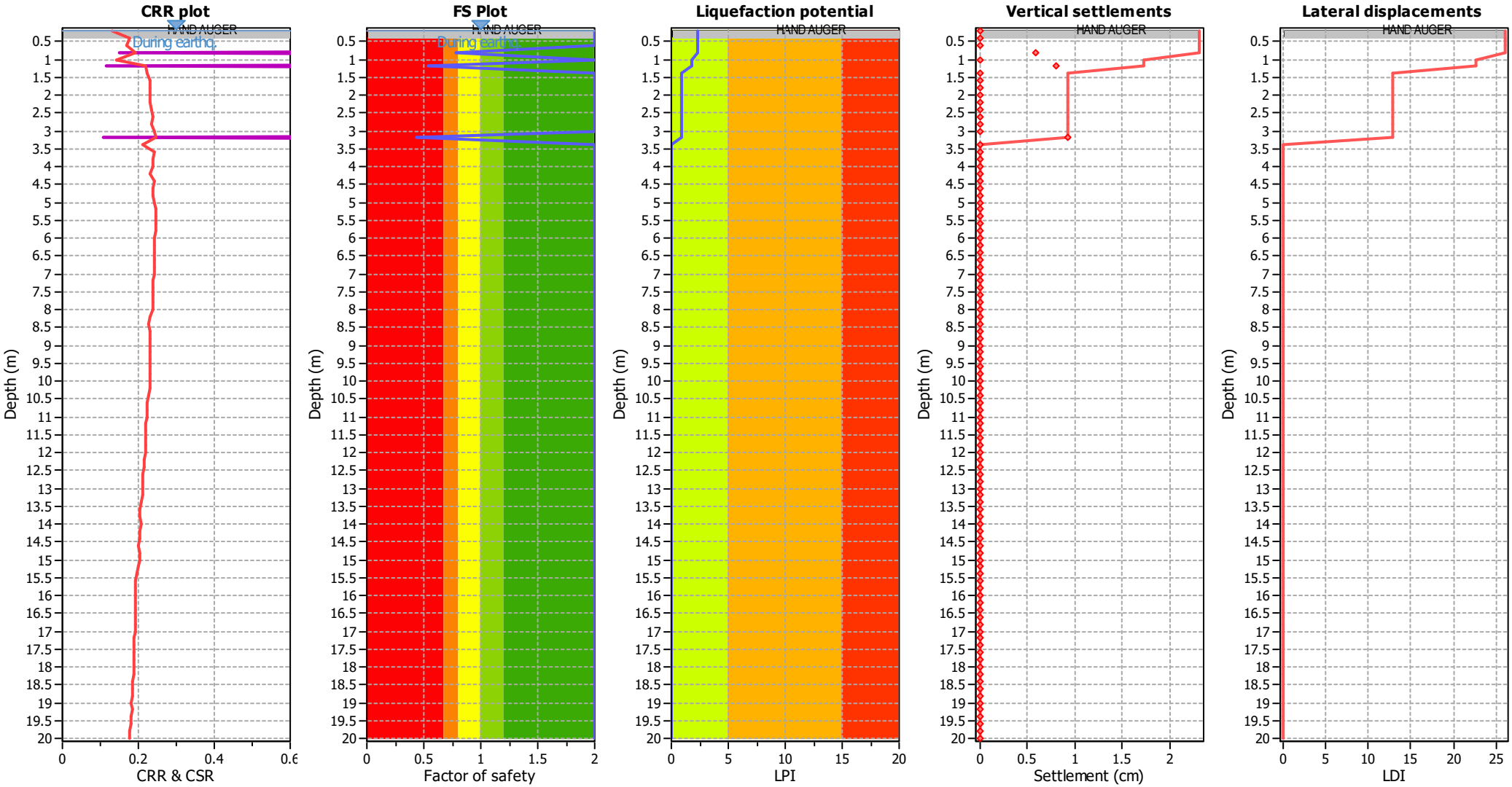






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	0.78	0.22	1.46	0.20	0.42
1.00	2.00	0.00	0.00	0.20	0.00	1.20	0.53	0.47	0.52	0.20	0.88
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	0.43	0.57	0.41	0.20	0.95
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.24

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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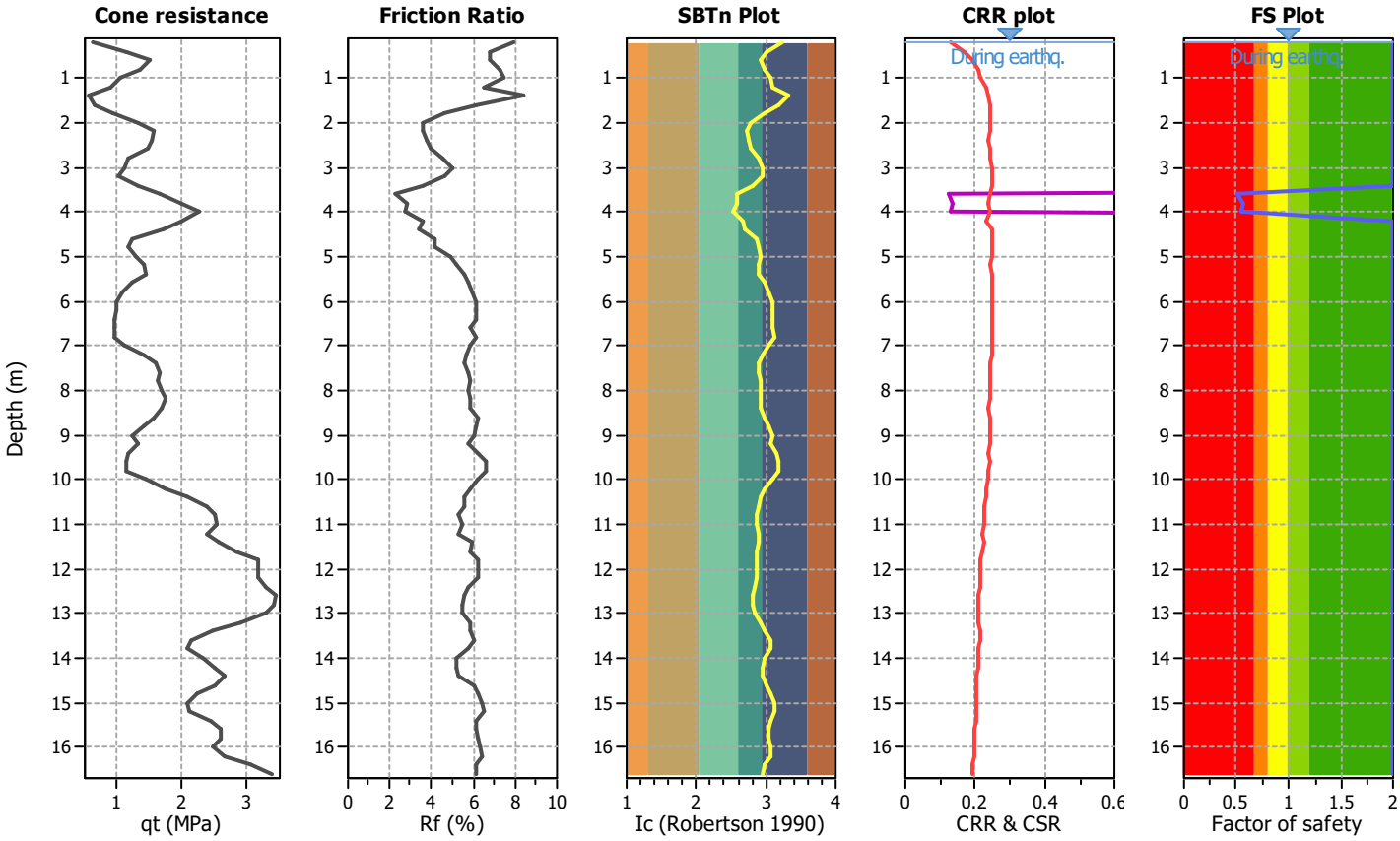
LIQUEFACTION ANALYSIS REPORT

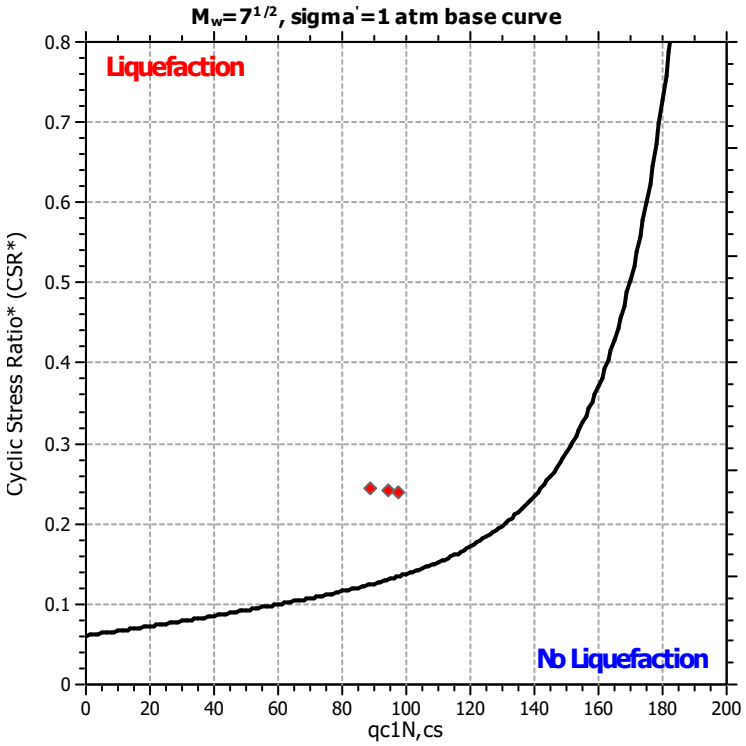
Project title : **Location :**

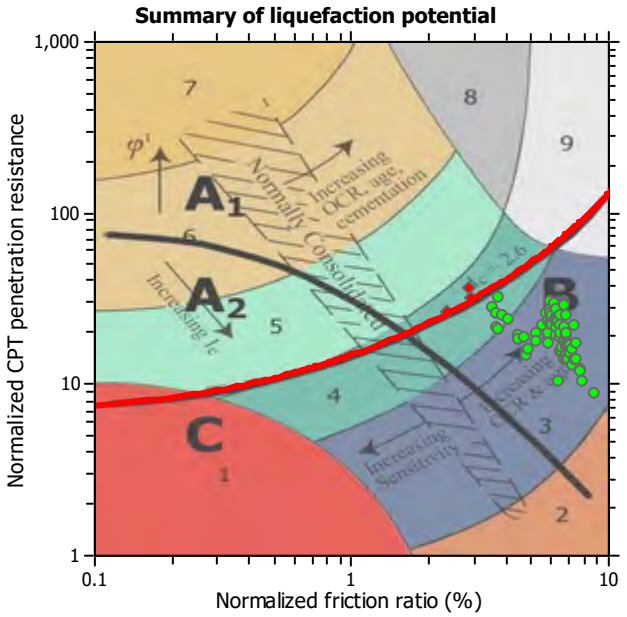
CPT file : SP103

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

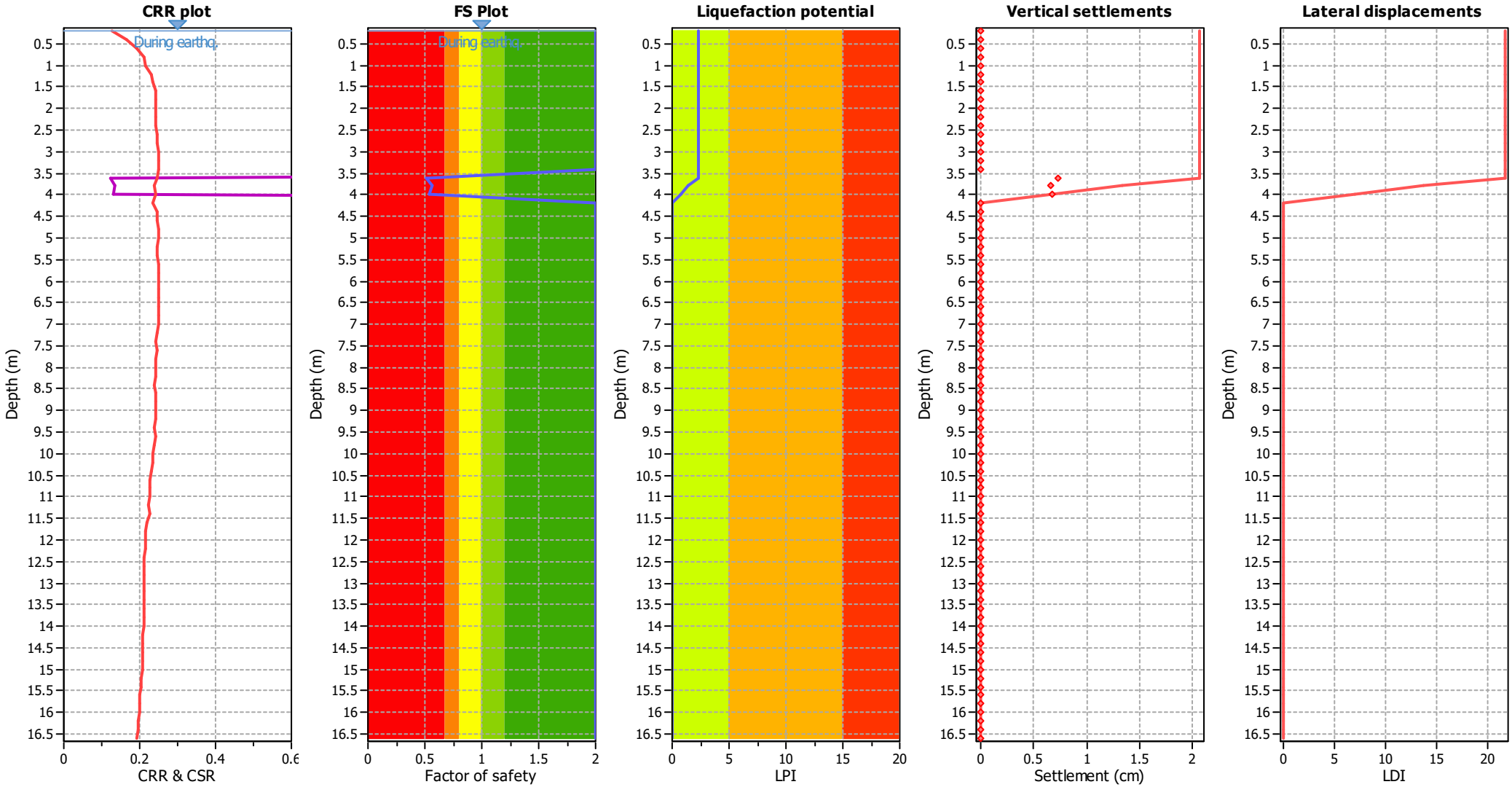






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	0.51	0.49	0.49	0.20	0.80
3.80	0.56	0.44	0.56	0.20	0.71	4.00	0.54	0.46	0.53	0.20	0.73
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 2.25

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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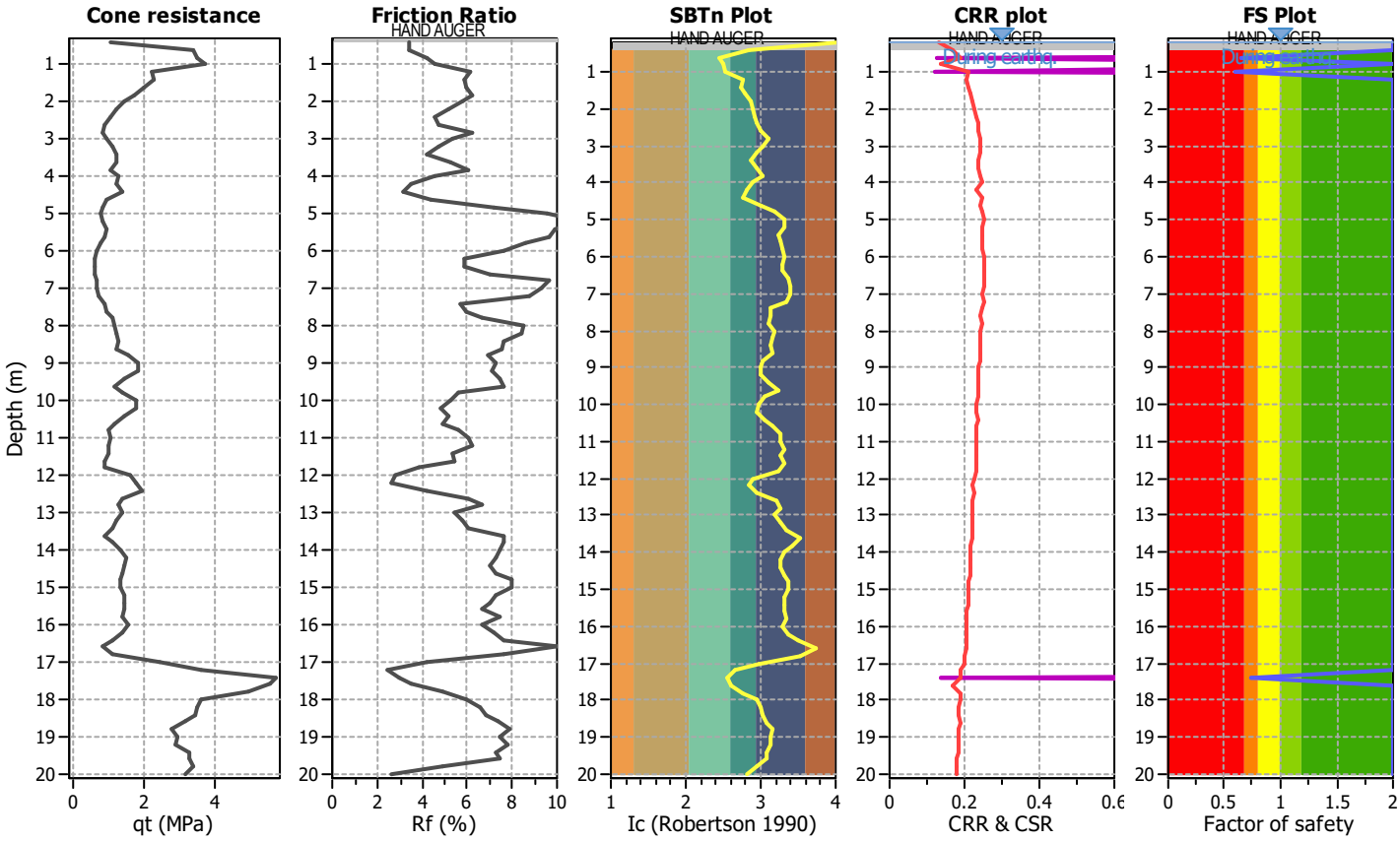
LIQUEFACTION ANALYSIS REPORT

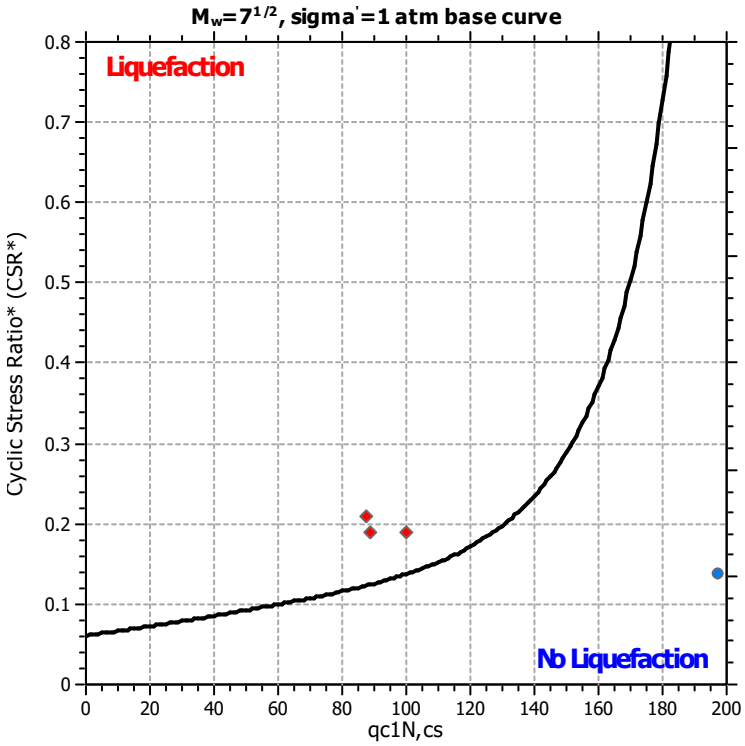
Project title : **Location :**

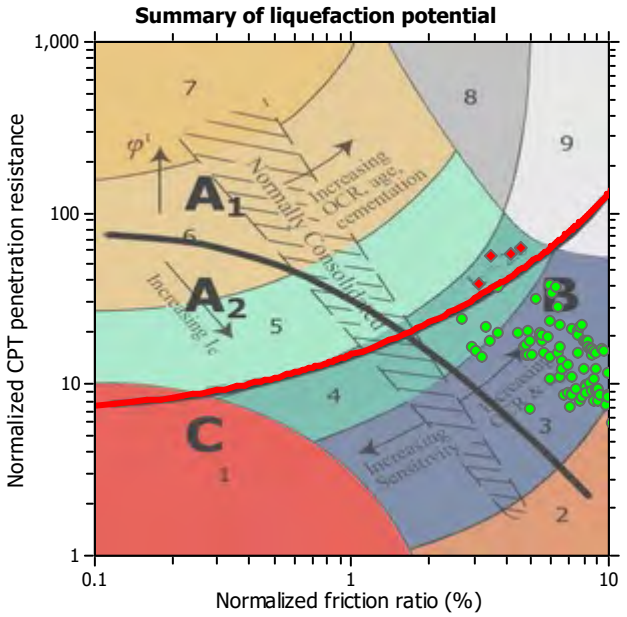
CPT file : SP104

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

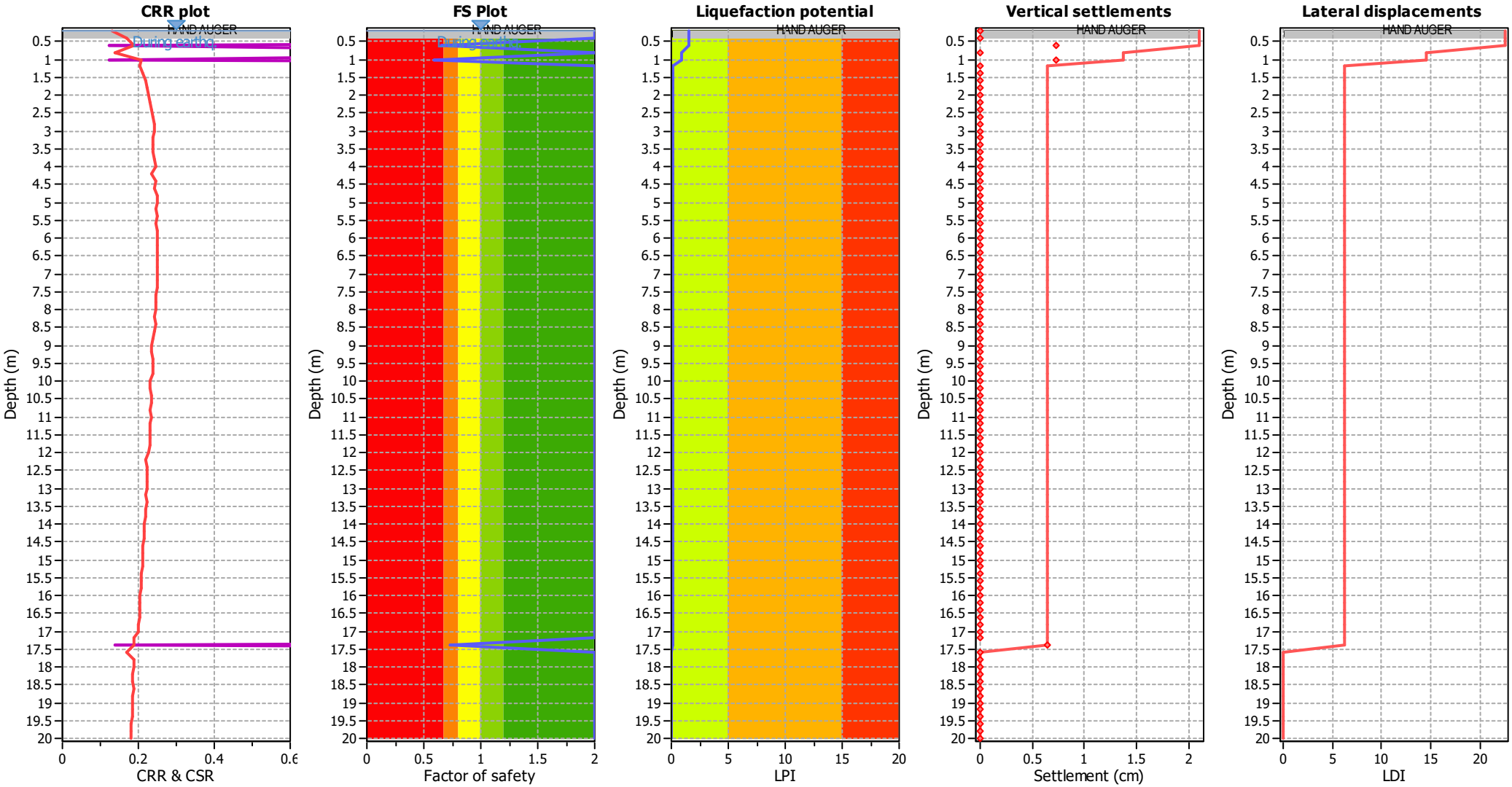






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.66	0.34	0.76	0.20	0.67	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.59	0.41	0.61	0.20	0.78	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	0.73	0.27	1.06	0.20	0.07	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.52

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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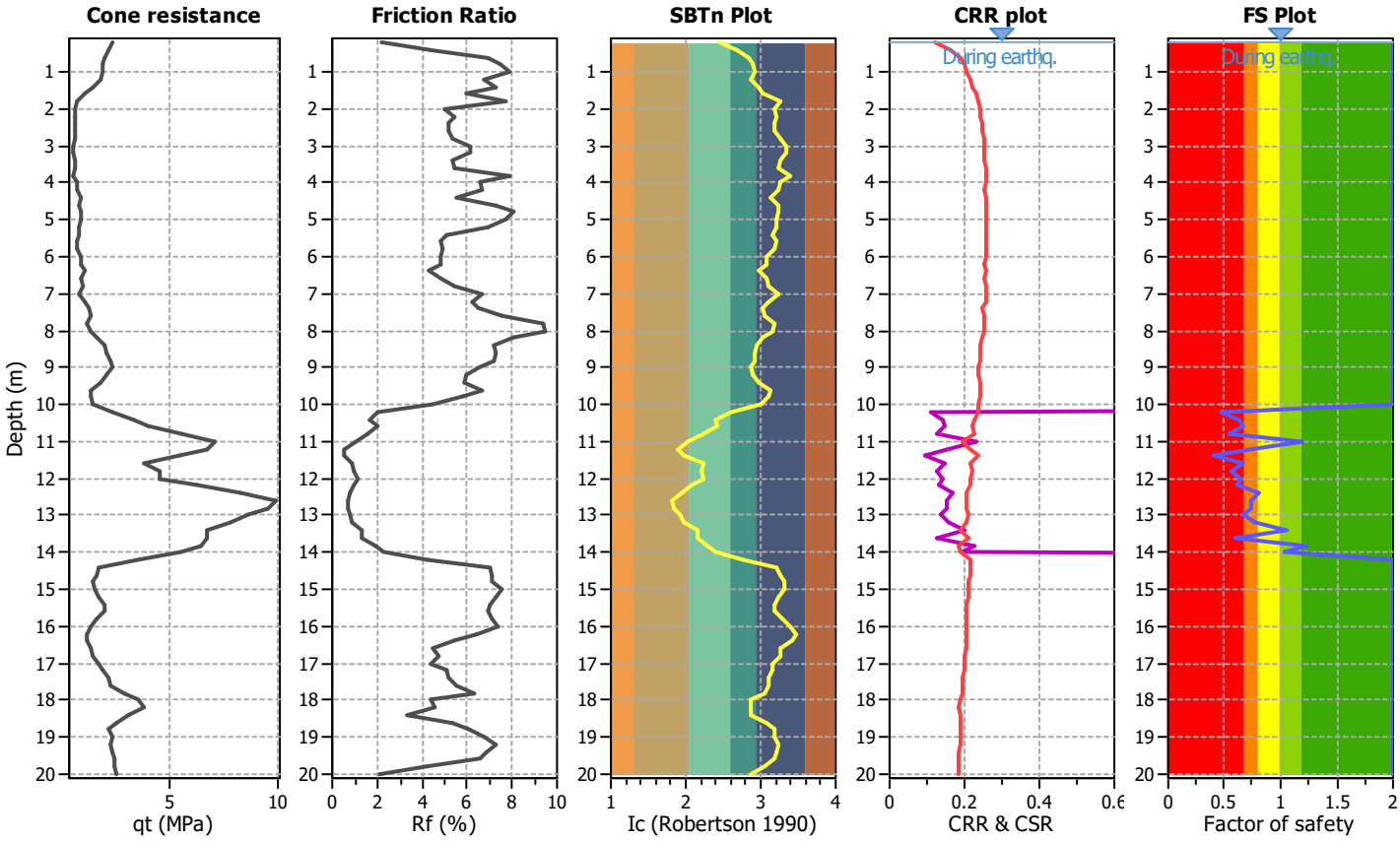
LIQUEFACTION ANALYSIS REPORT

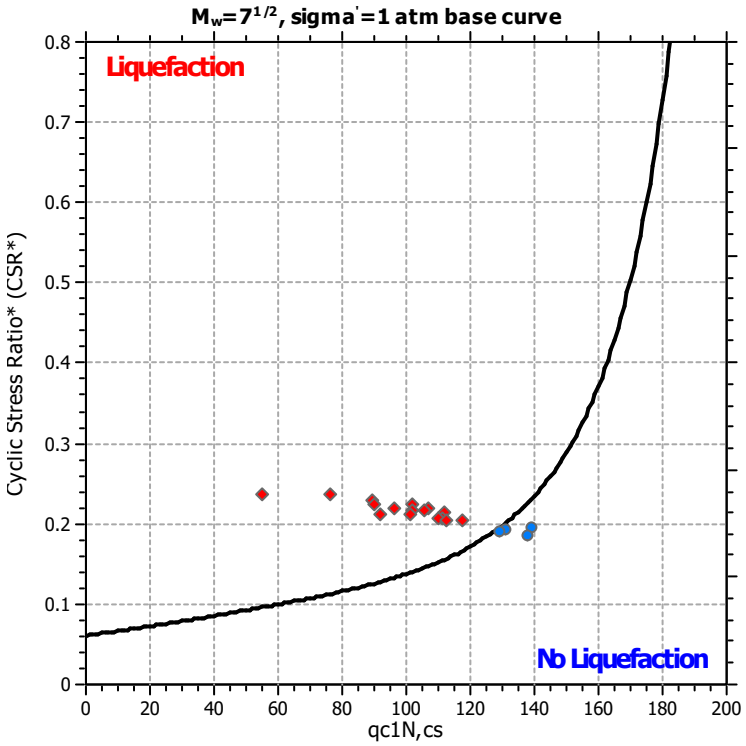
Project title : **Location :**

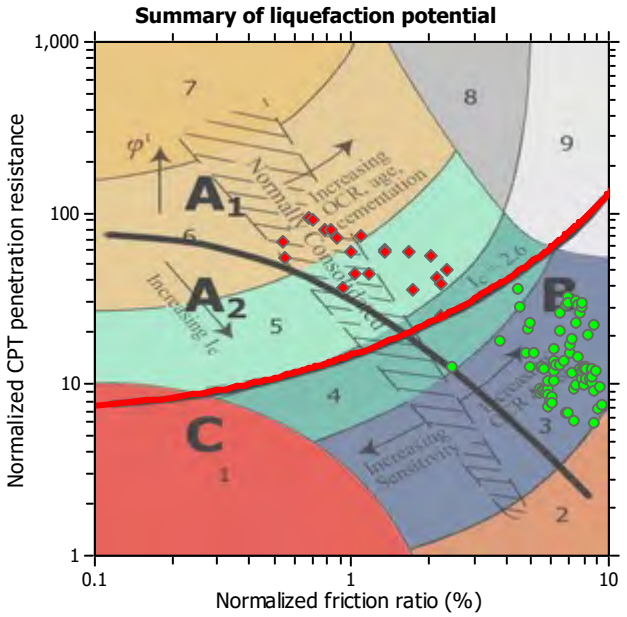
CPT file : SP105

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

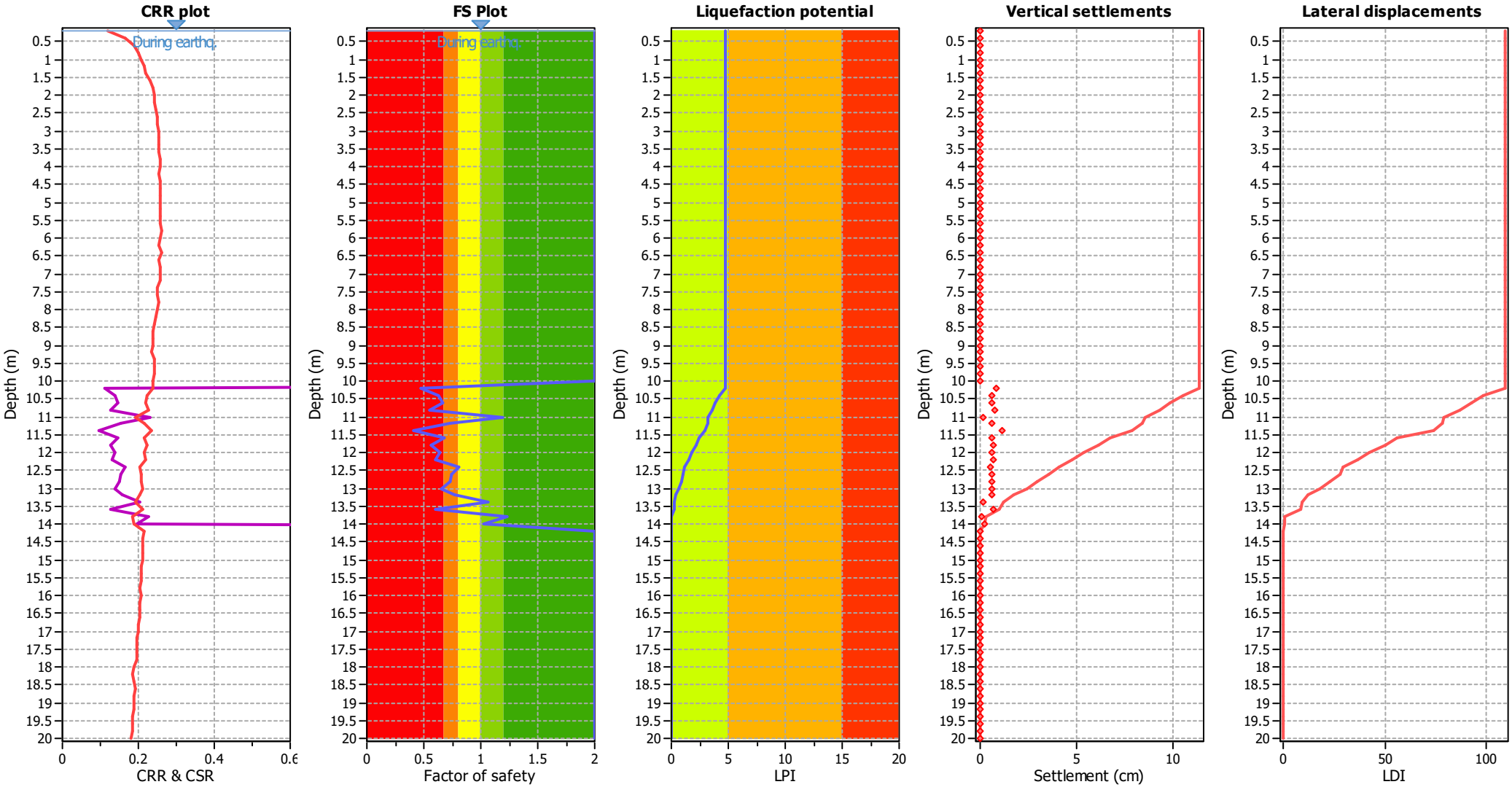






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	0.47	0.00	0.00	0.20	0.52	10.40	0.62	0.00	0.00	0.20	0.36
10.60	0.67	0.00	0.00	0.20	0.31	10.80	0.55	0.00	0.00	0.20	0.42
11.00	1.19	0.00	0.00	0.20	0.00	11.20	0.73	0.00	0.00	0.20	0.24
11.40	0.41	0.00	0.00	0.20	0.51	11.60	0.67	0.00	0.00	0.20	0.27
11.80	0.56	0.00	0.00	0.20	0.36	12.00	0.65	0.00	0.00	0.20	0.28
12.20	0.61	0.00	0.00	0.20	0.31	12.40	0.81	0.00	0.00	0.20	0.14
12.60	0.74	0.00	0.00	0.20	0.19	12.80	0.73	0.00	0.00	0.20	0.19
13.00	0.66	0.00	0.00	0.20	0.24	13.20	0.77	0.00	0.00	0.20	0.16
13.40	1.06	0.00	0.00	0.20	0.00	13.60	0.60	0.00	0.00	0.20	0.25
13.80	1.23	0.00	0.00	0.20	0.00	14.00	1.03	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.76

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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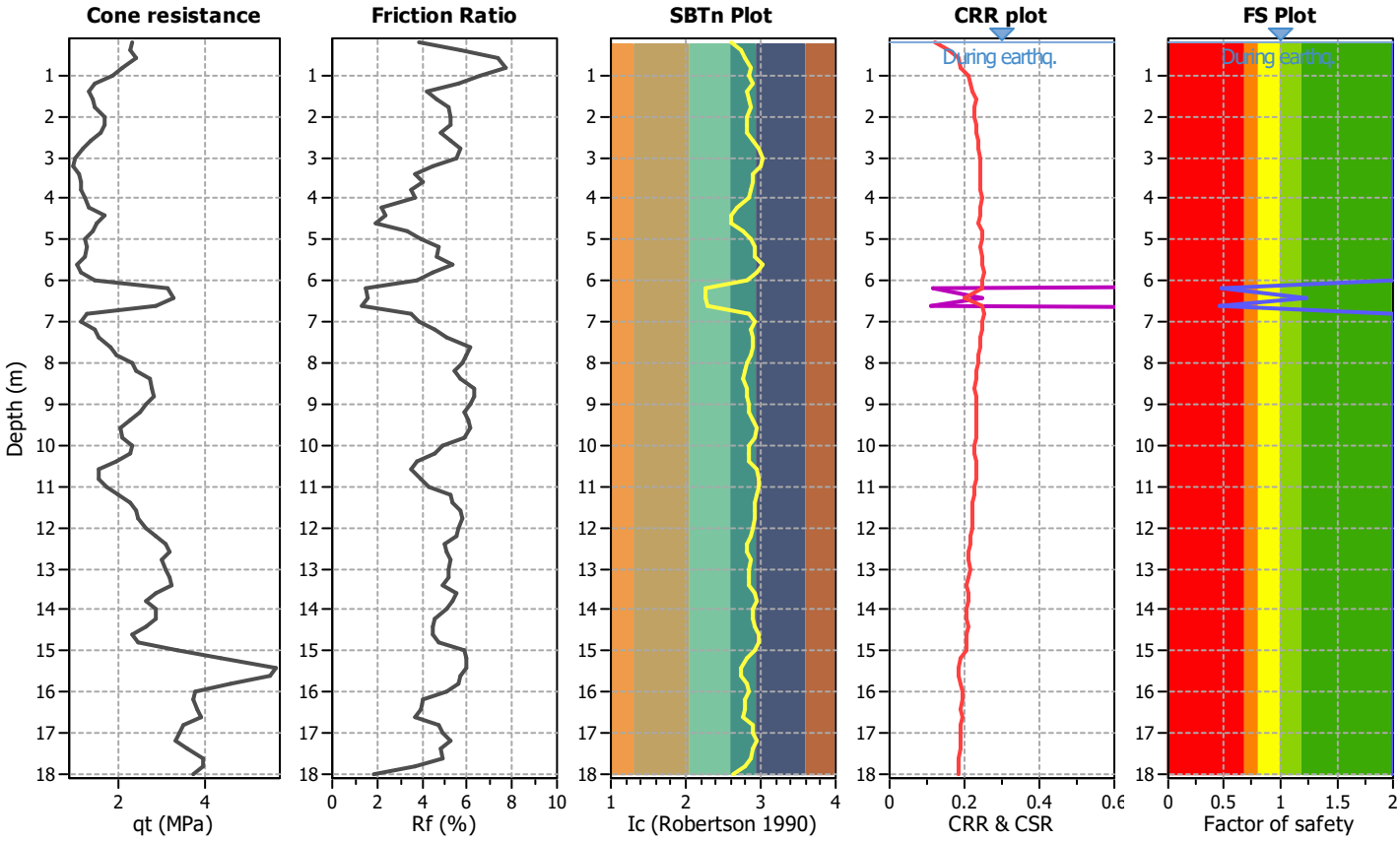
LIQUEFACTION ANALYSIS REPORT

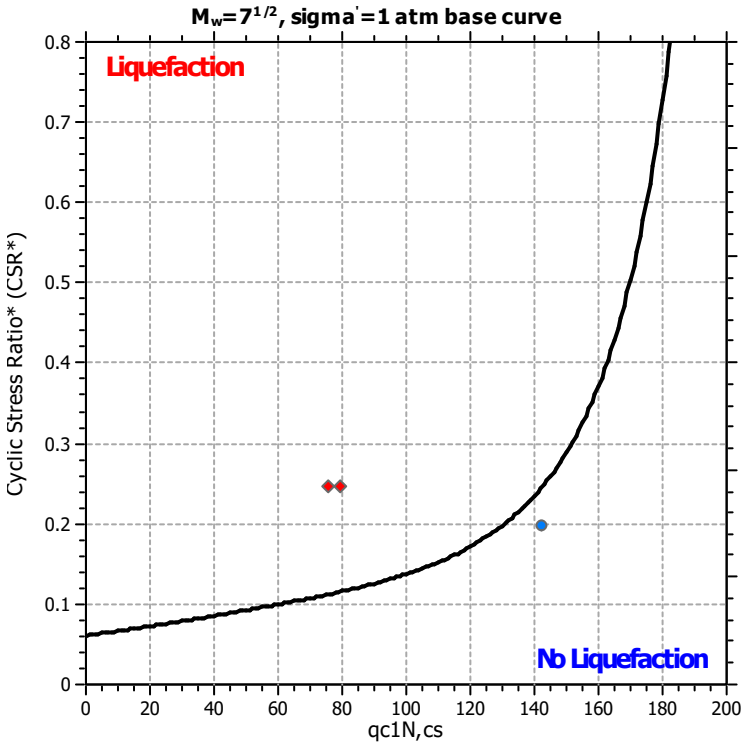
Project title : **Location :**

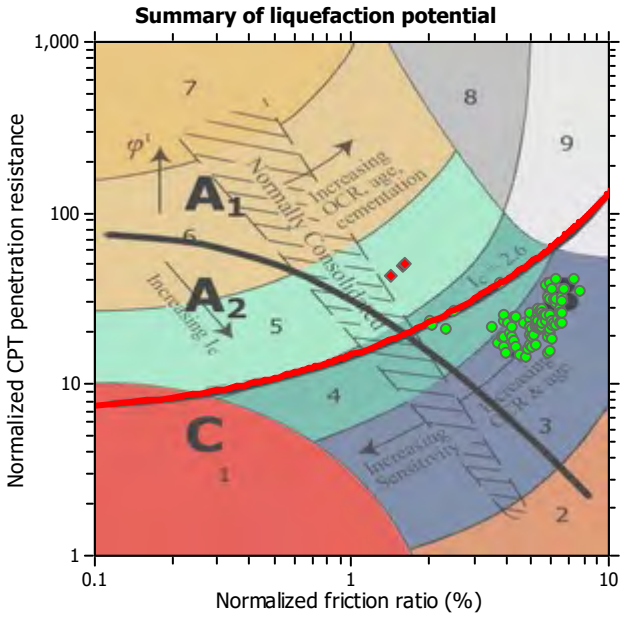
CPT file : SP107

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

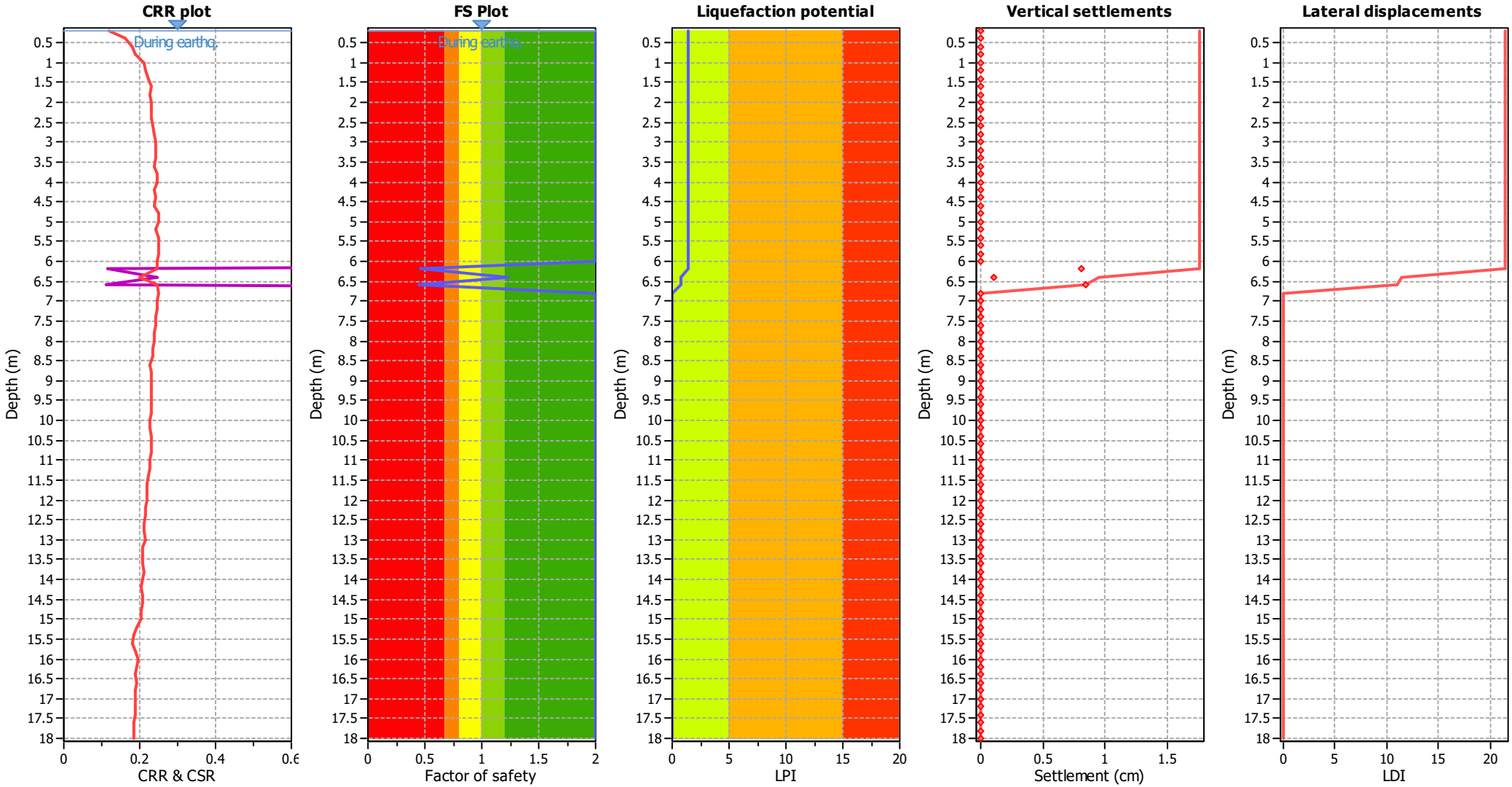






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	0.47	0.53	0.44	0.20	0.73	6.40	1.24	0.00	0.00	0.20	0.00
6.60	0.45	0.55	0.43	0.20	0.73	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 1.47

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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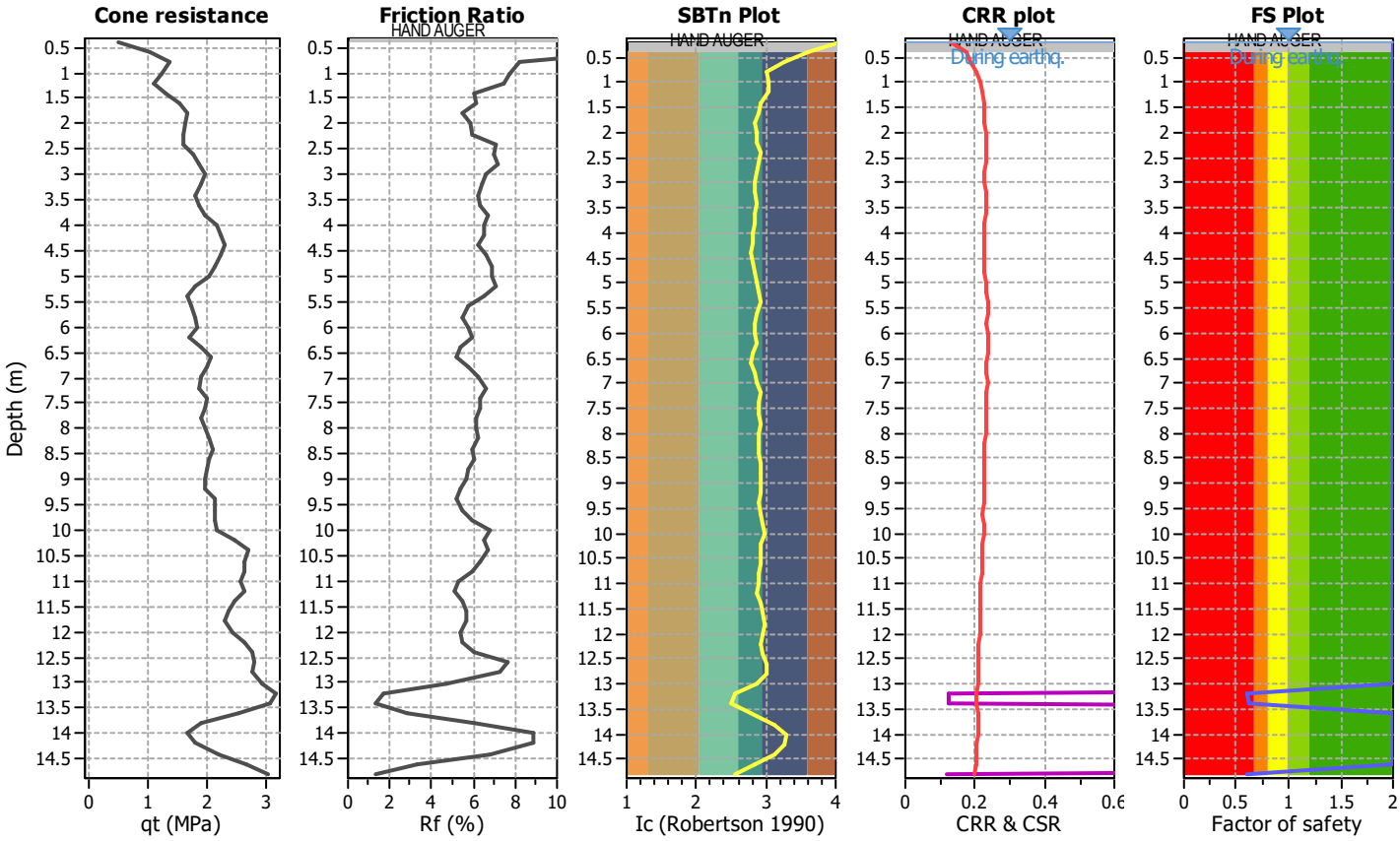
LIQUEFACTION ANALYSIS REPORT

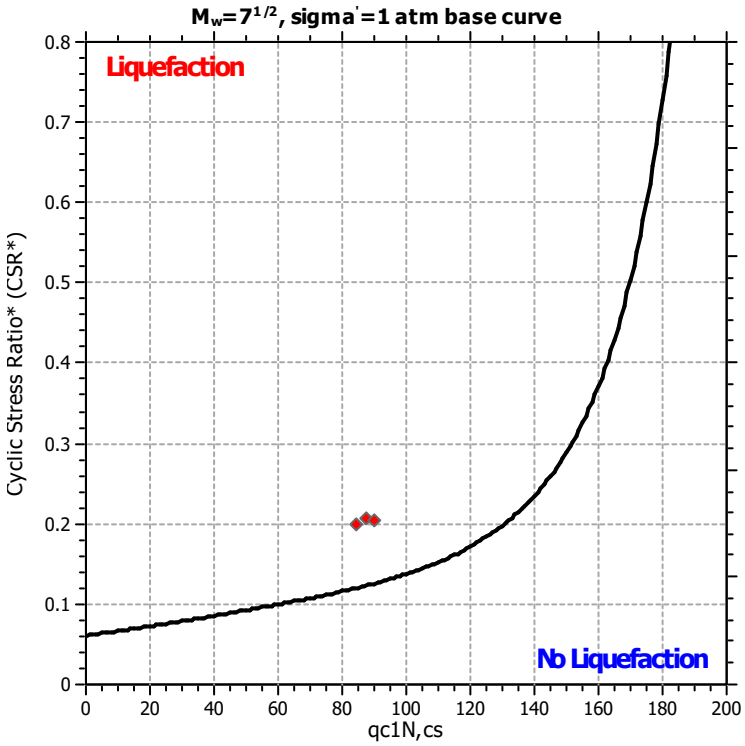
Project title : **Location :**

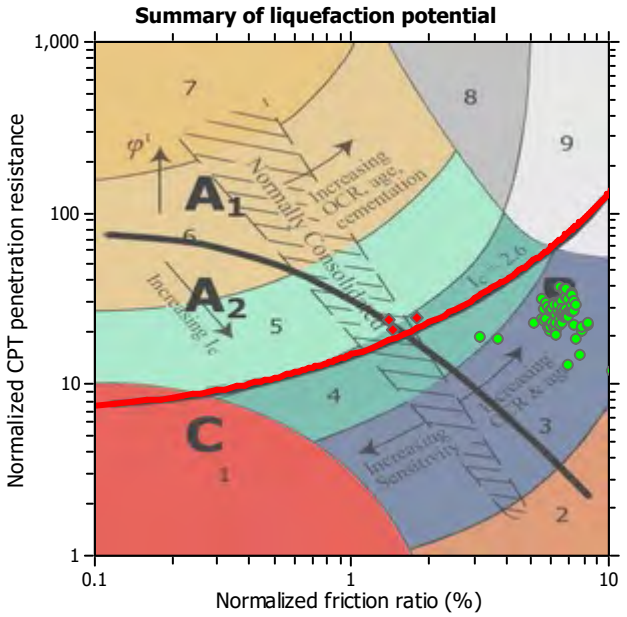
CPT file : SP111

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

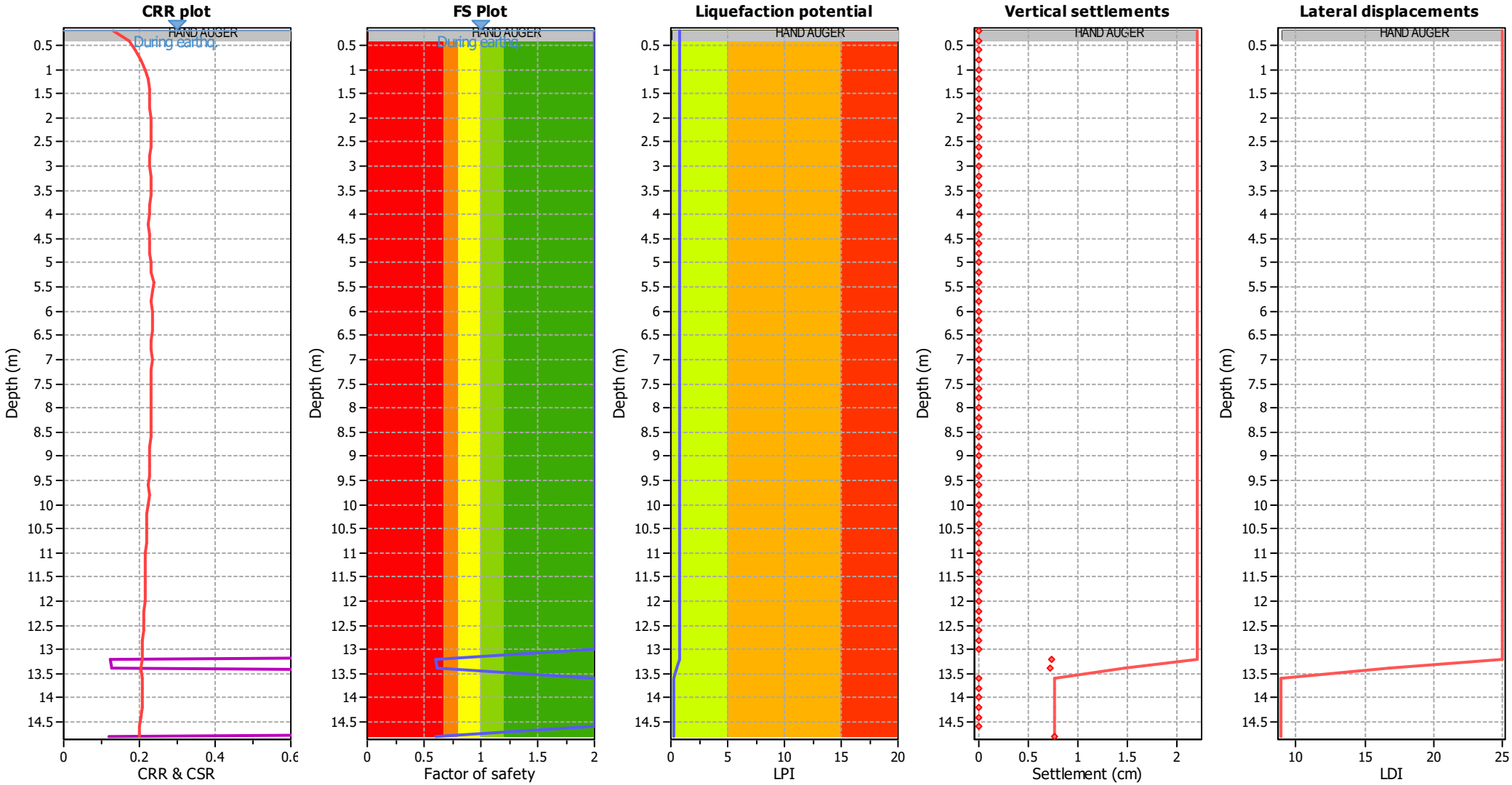






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	0.60	0.40	0.62	0.20	0.27
13.40	0.61	0.39	0.66	0.20	0.26	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	0.60	0.40	0.63	0.20	0.21

Overall liquefaction potential: 0.74

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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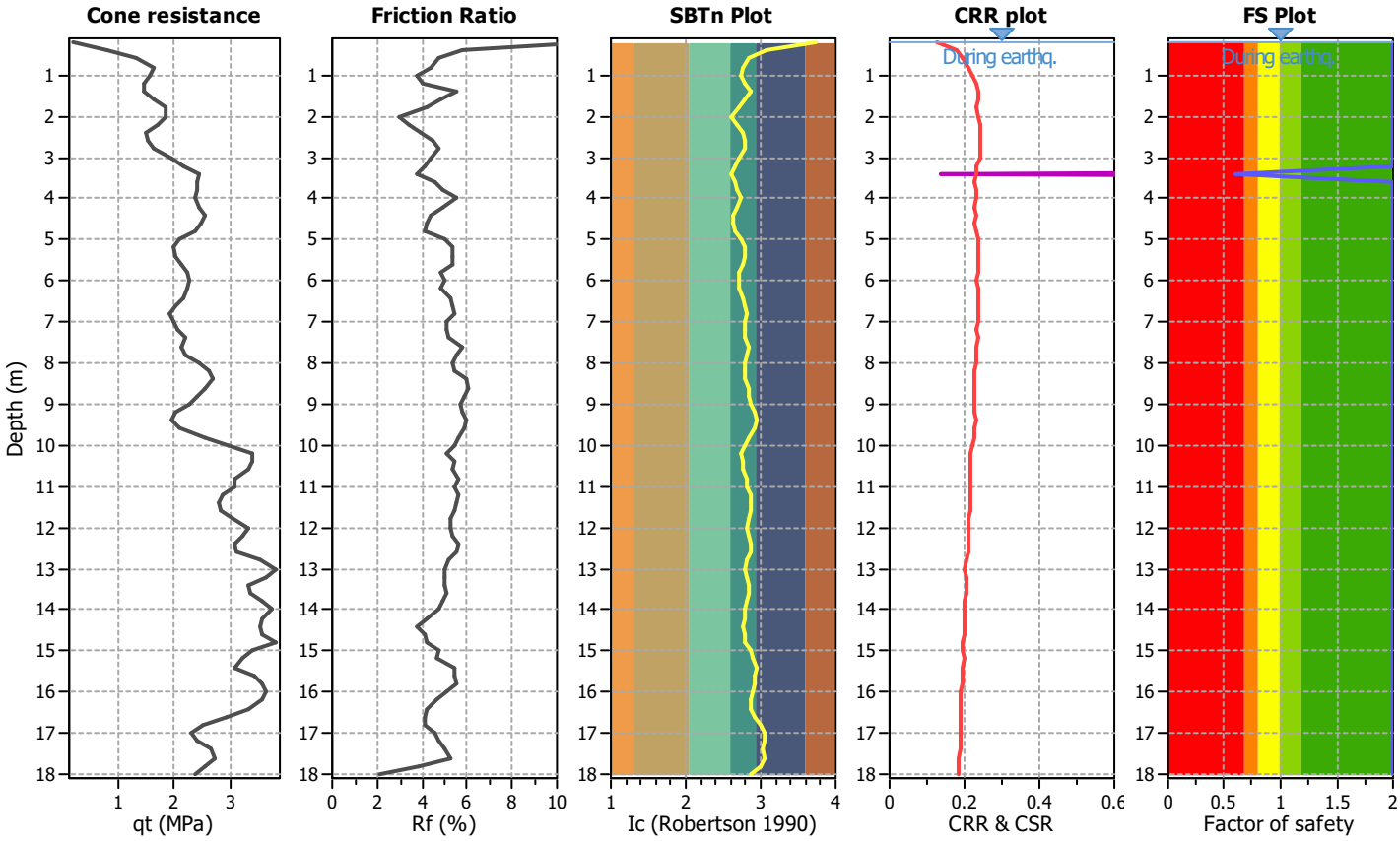
LIQUEFACTION ANALYSIS REPORT

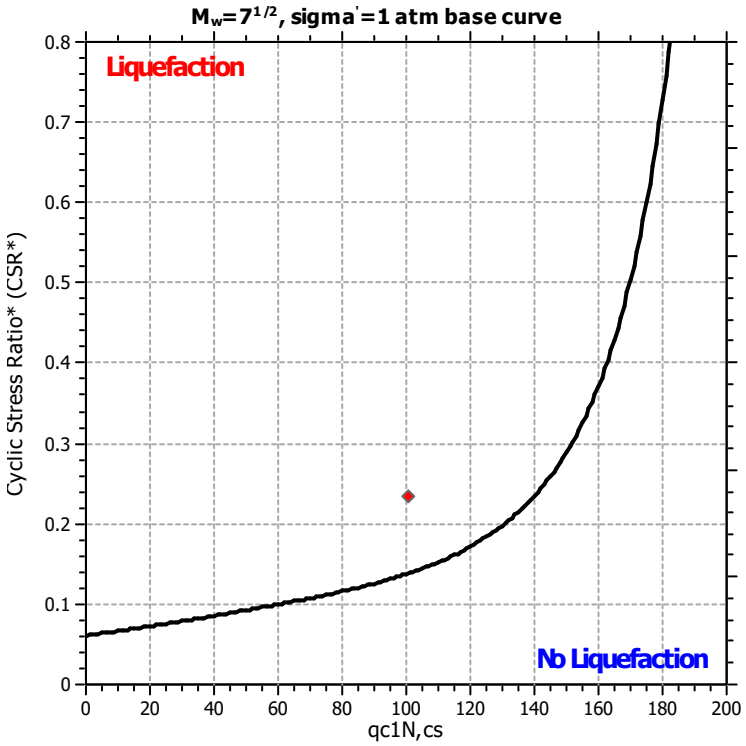
Project title : **Location :**

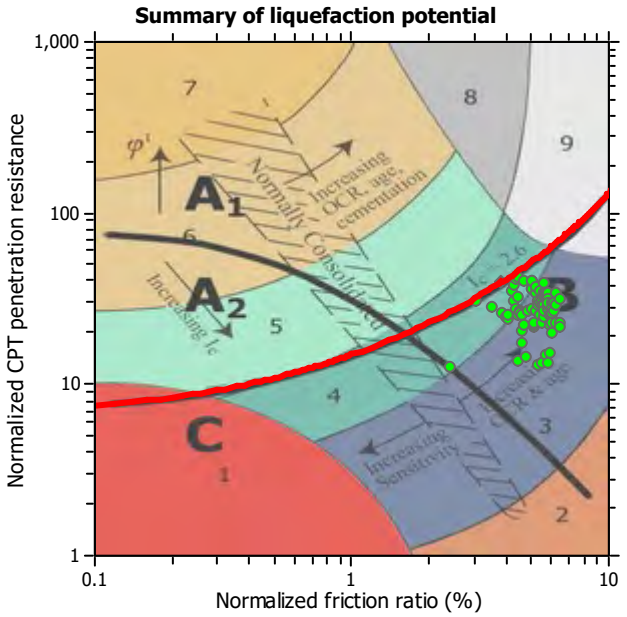
CPT file : SP112

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

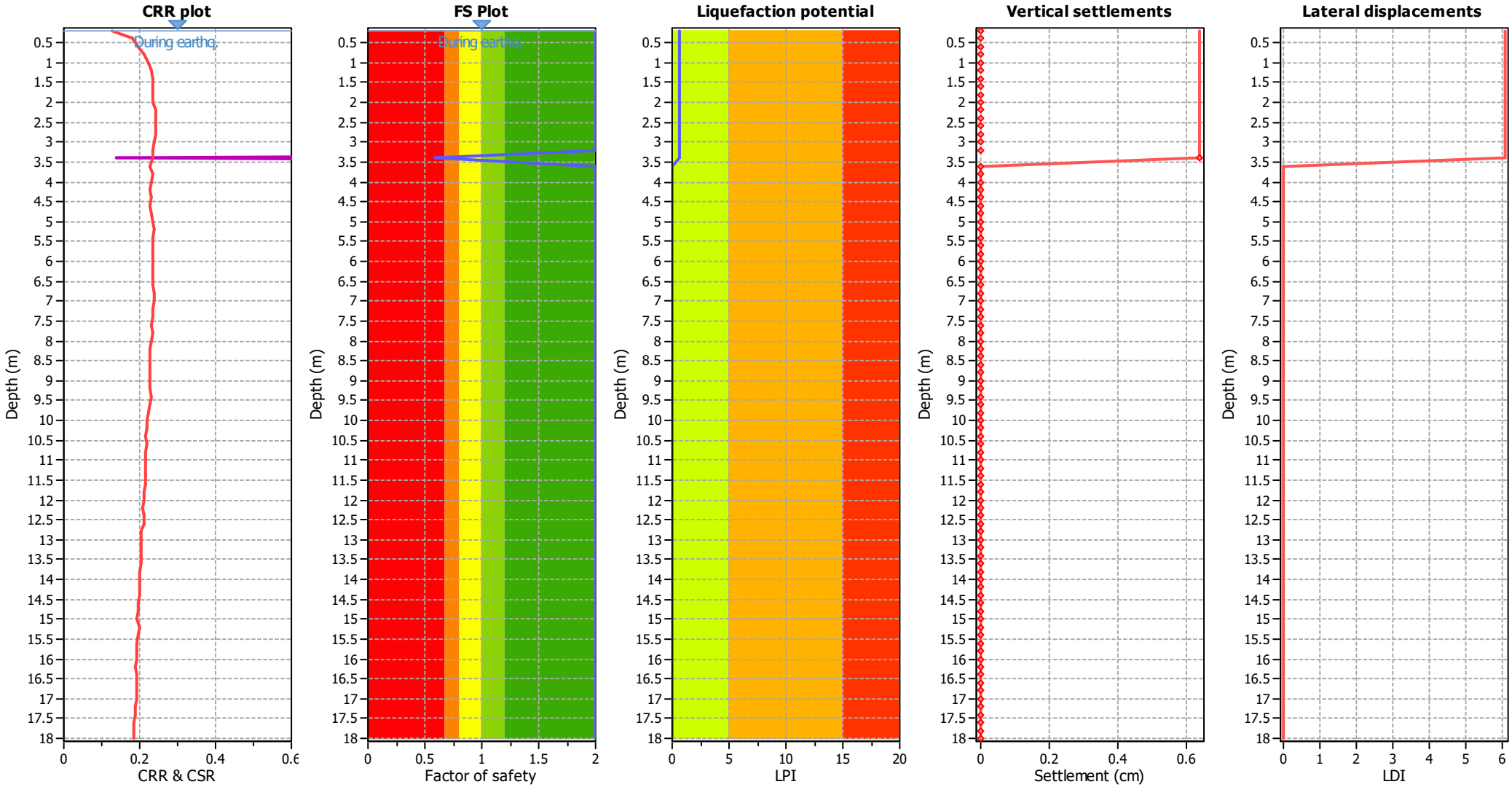






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	0.59	0.41	0.62	0.20	0.68	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 0.68

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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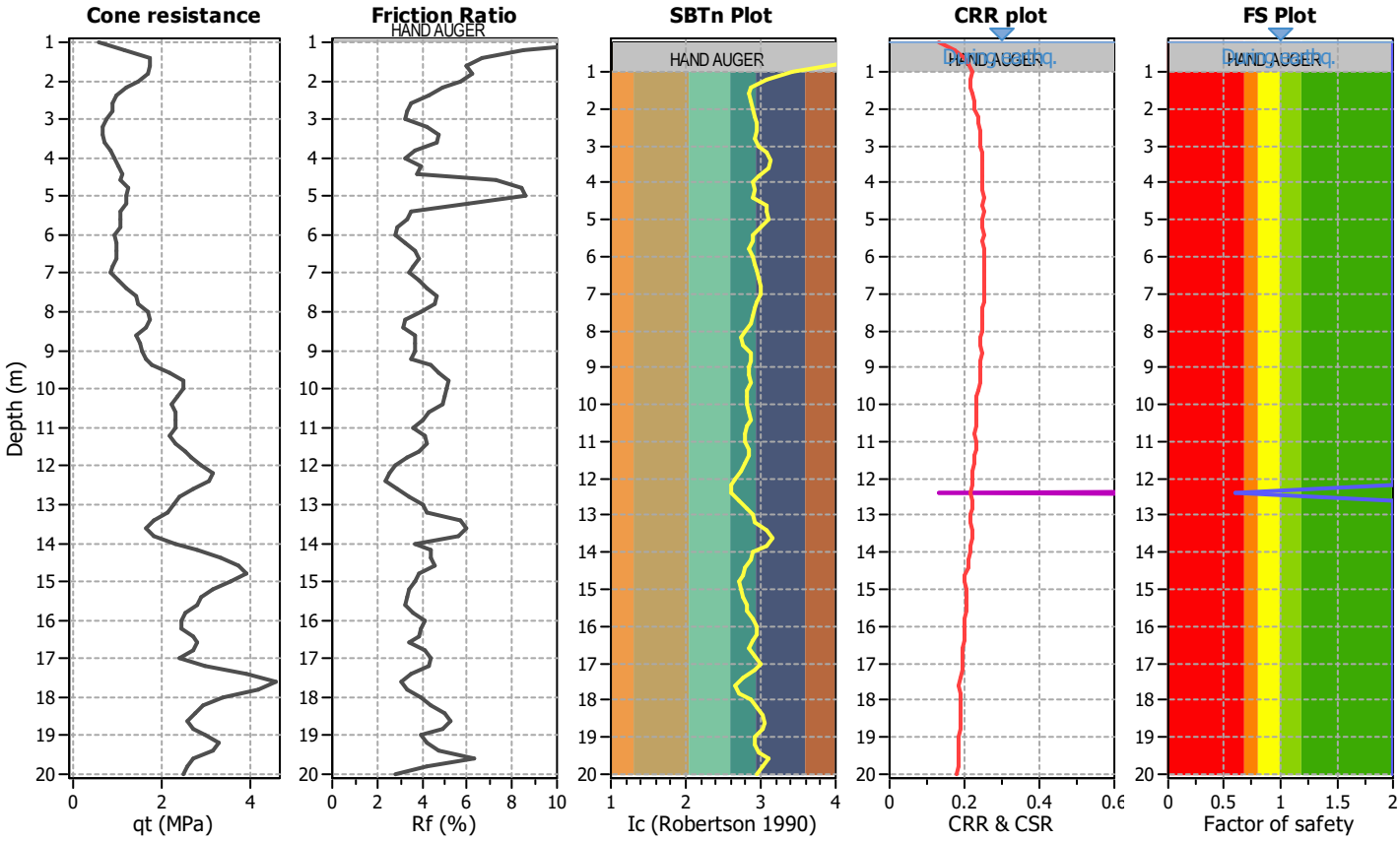
LIQUEFACTION ANALYSIS REPORT

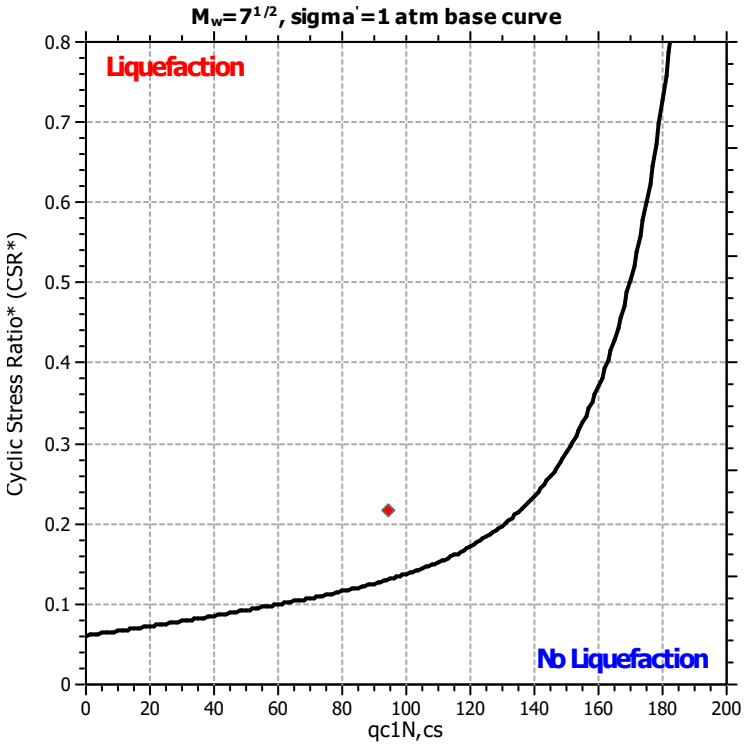
Project title : **Location :**

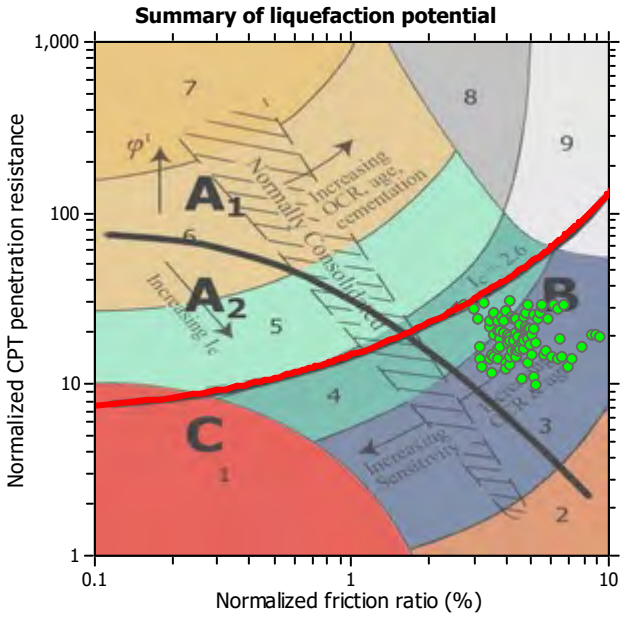
CPT file : SP113

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

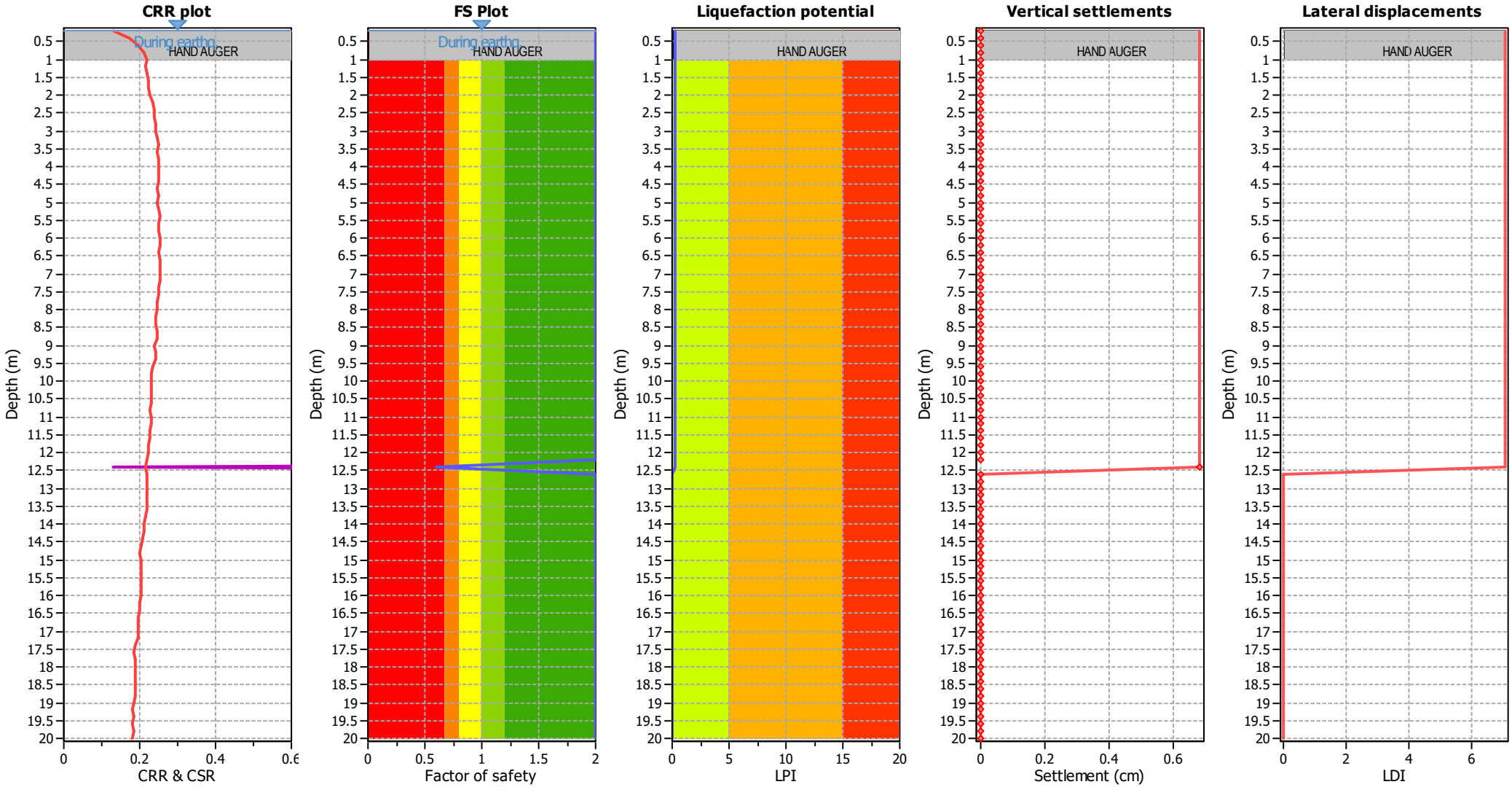






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	0.60	0.40	0.63	0.20	0.30
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.30

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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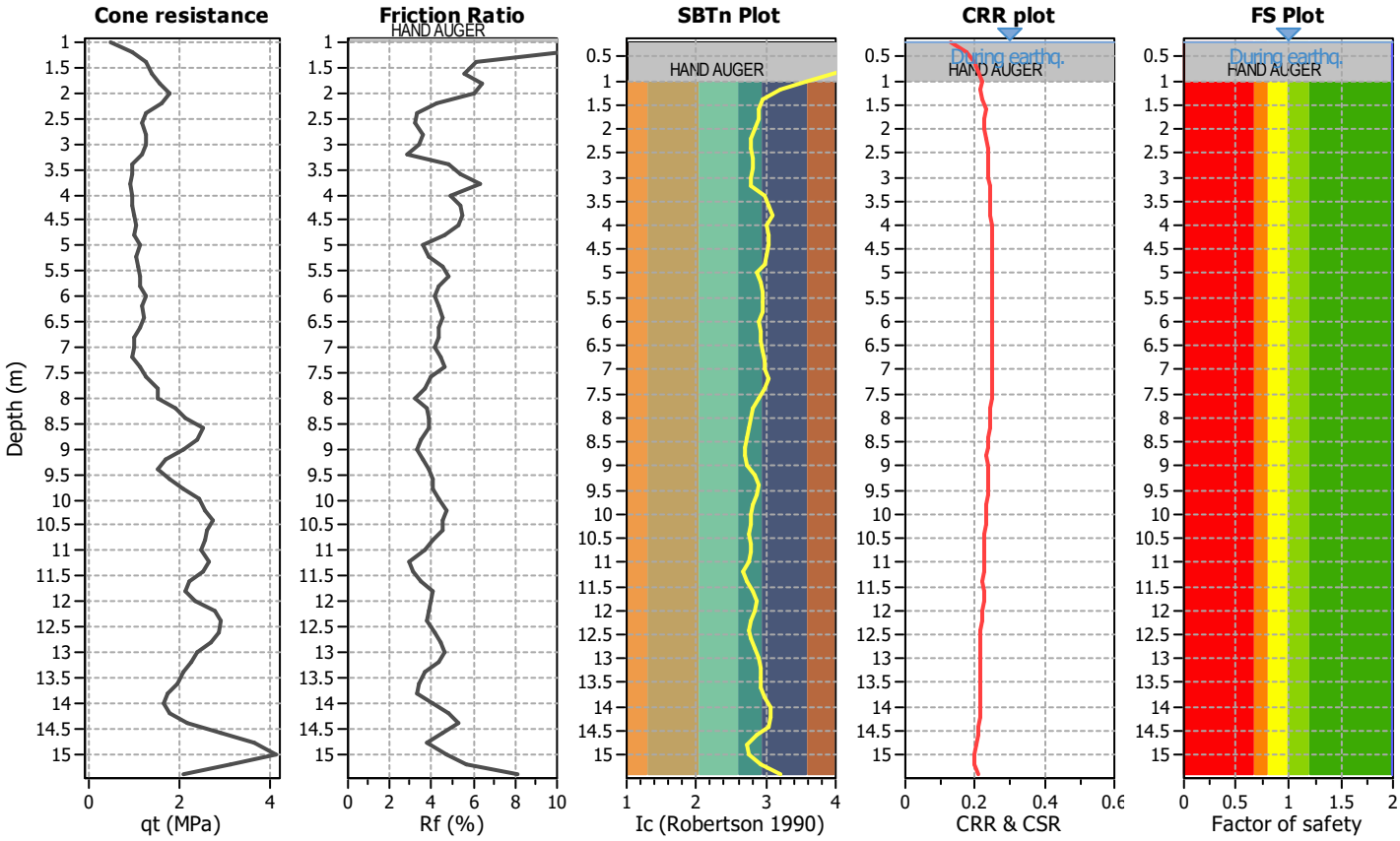
LIQUEFACTION ANALYSIS REPORT

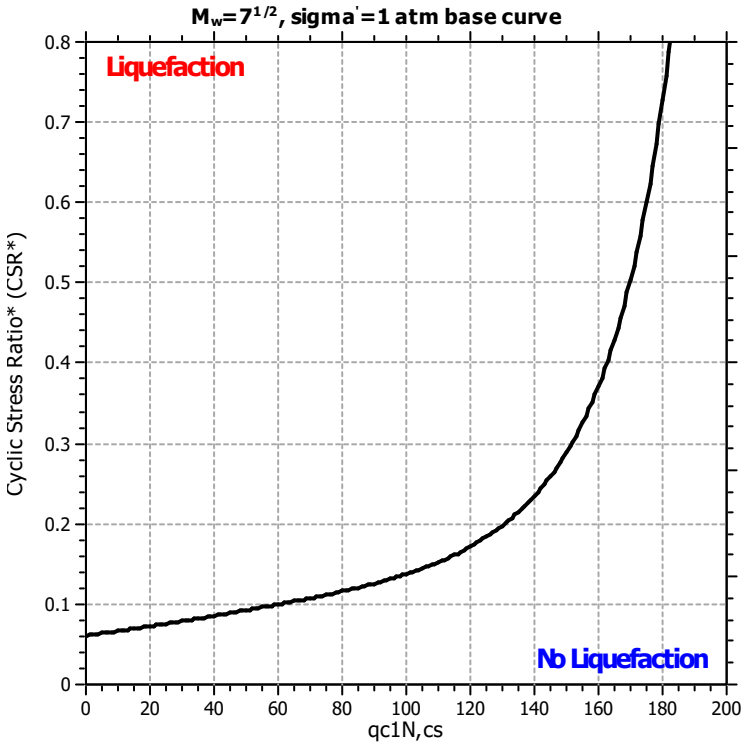
Project title : **Location :**

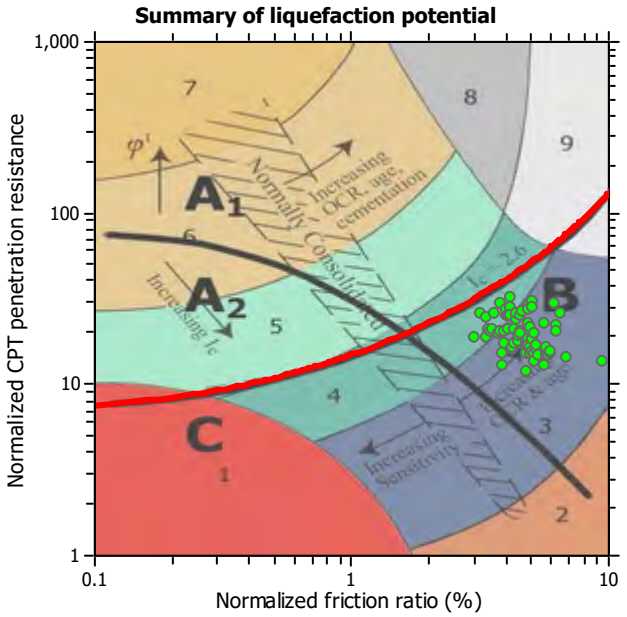
CPT file : SP114

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

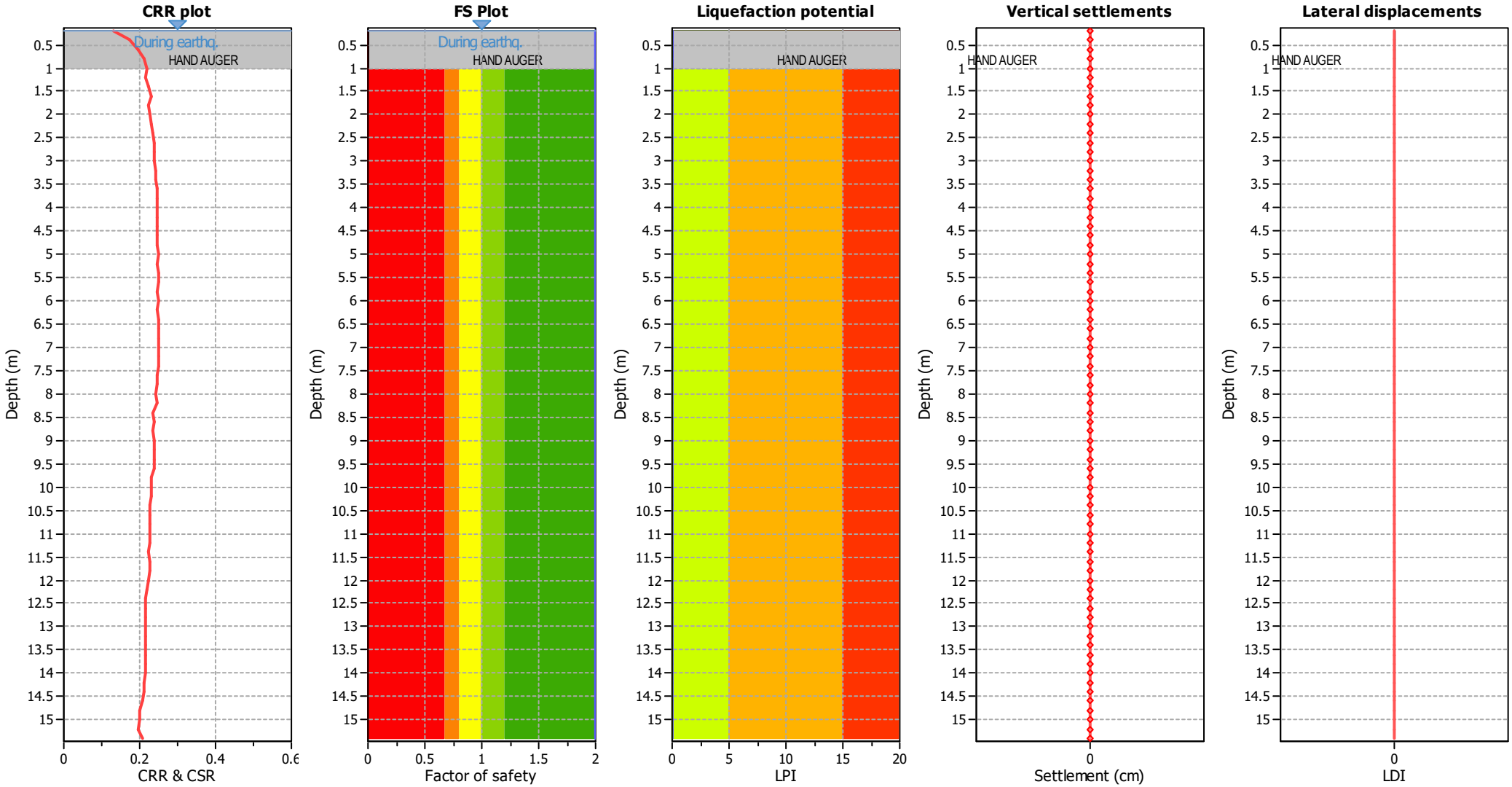






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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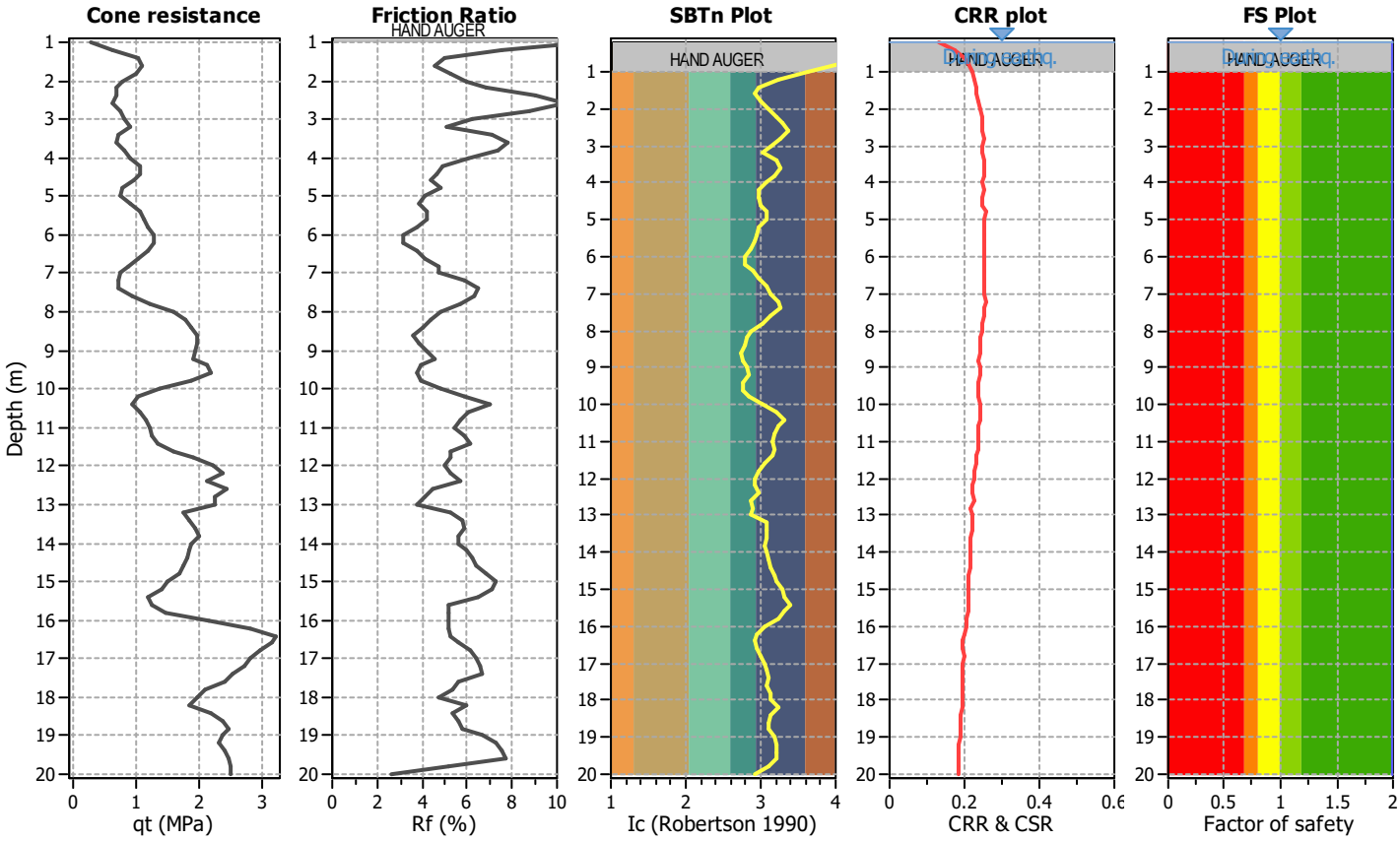
LIQUEFACTION ANALYSIS REPORT

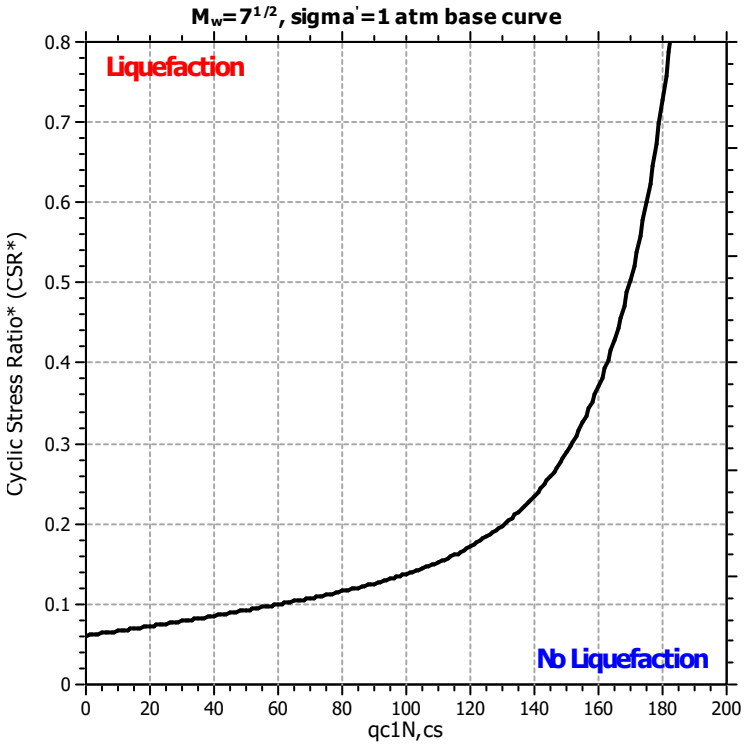
Project title : **Location :**

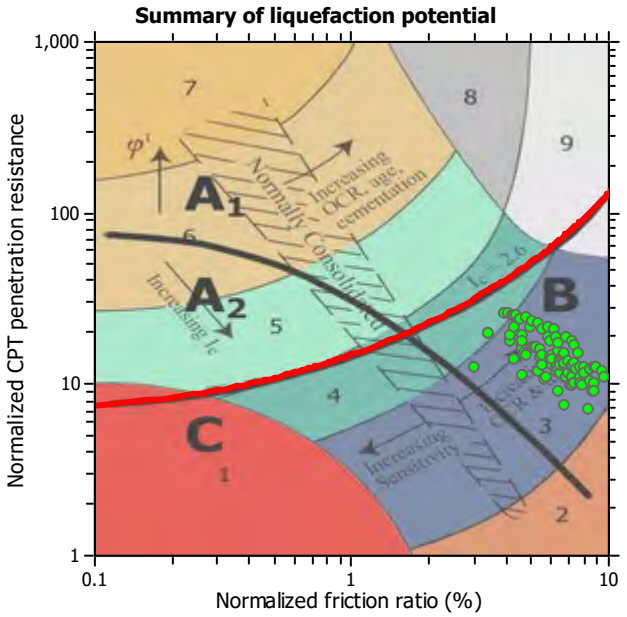
CPT file : SP115

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

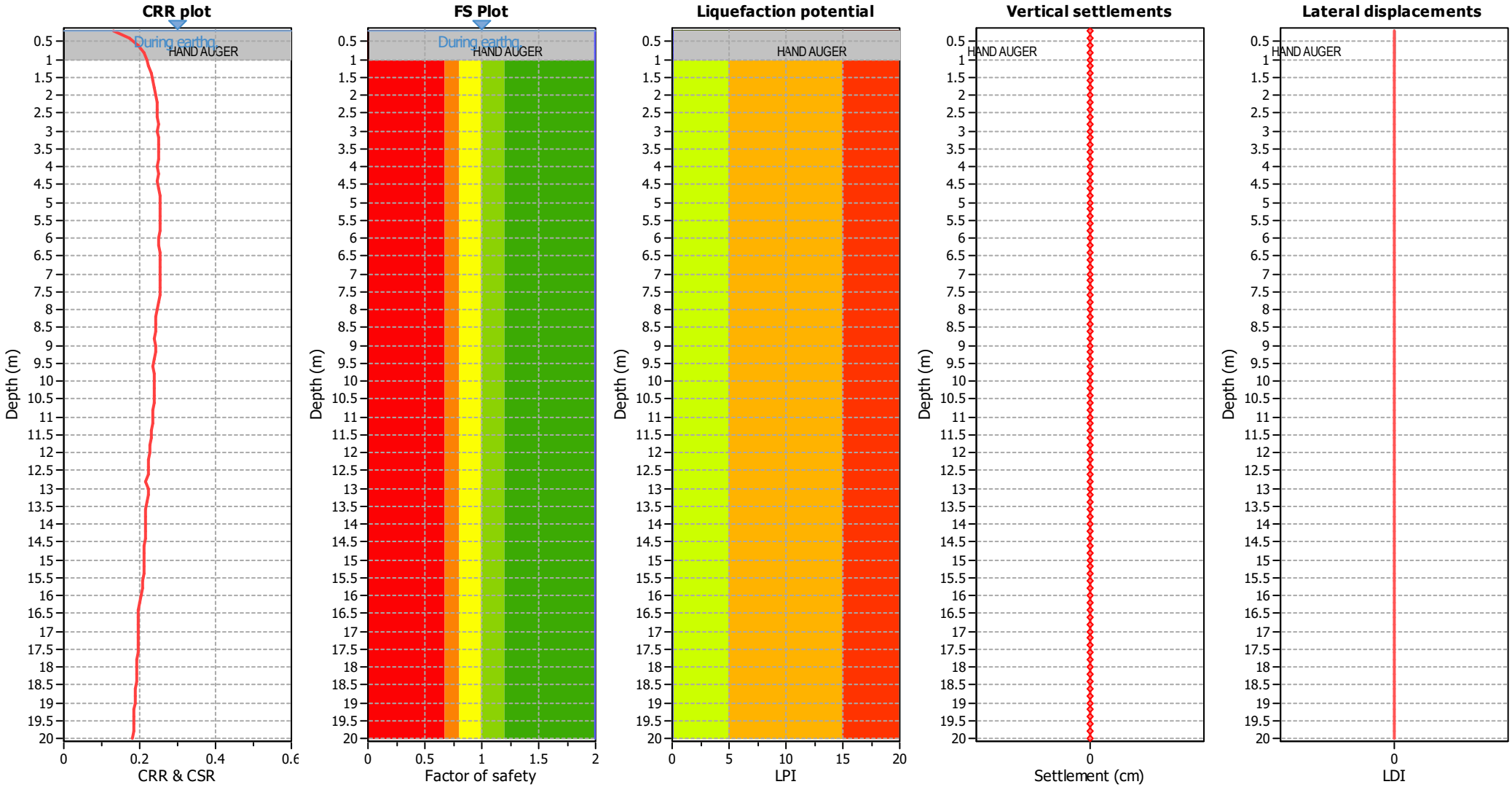






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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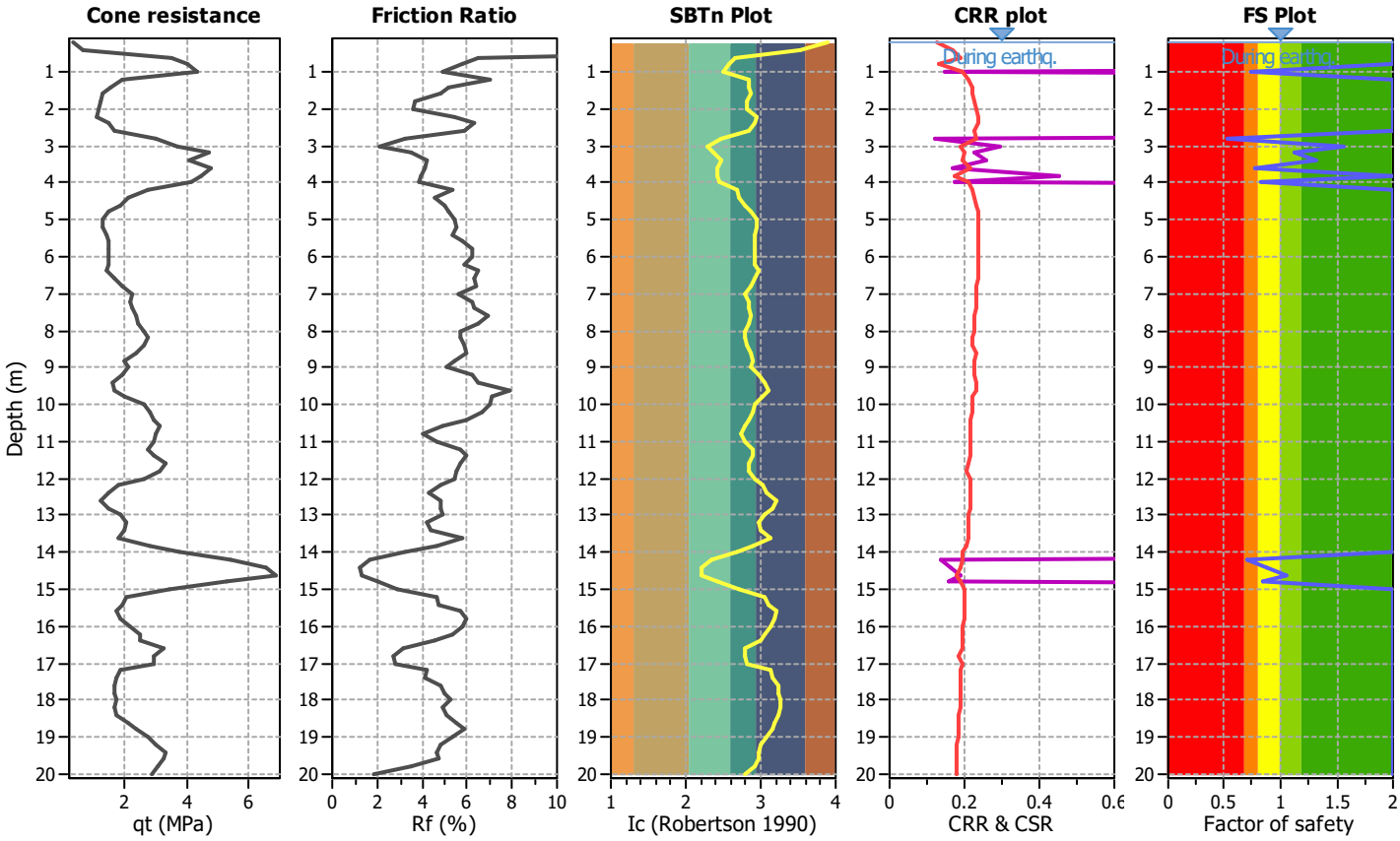
LIQUEFACTION ANALYSIS REPORT

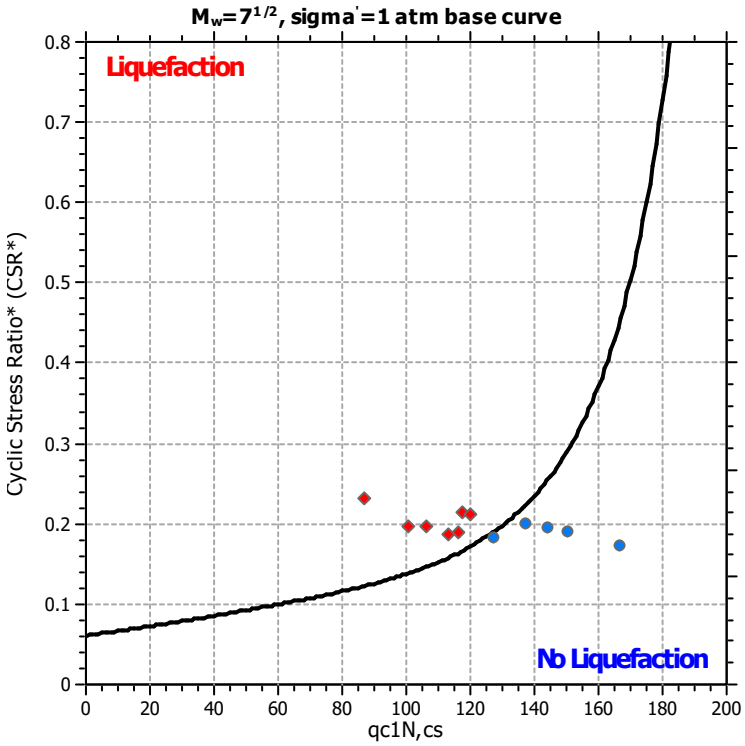
Project title : **Location :**

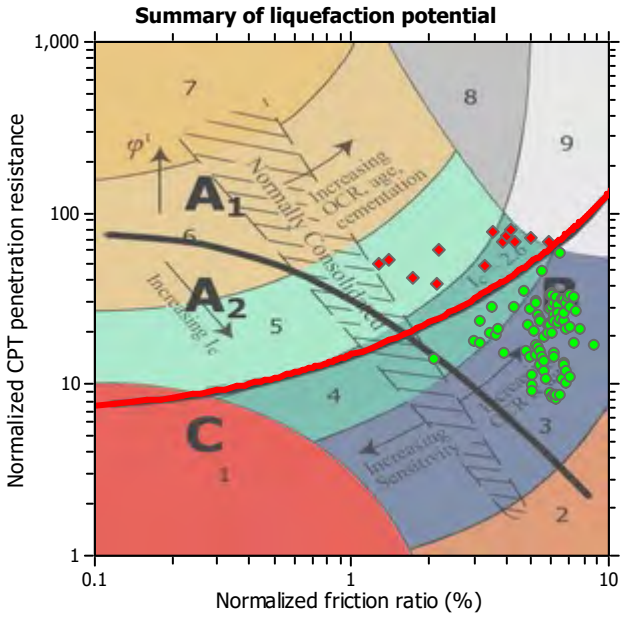
CPT file : SP117

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

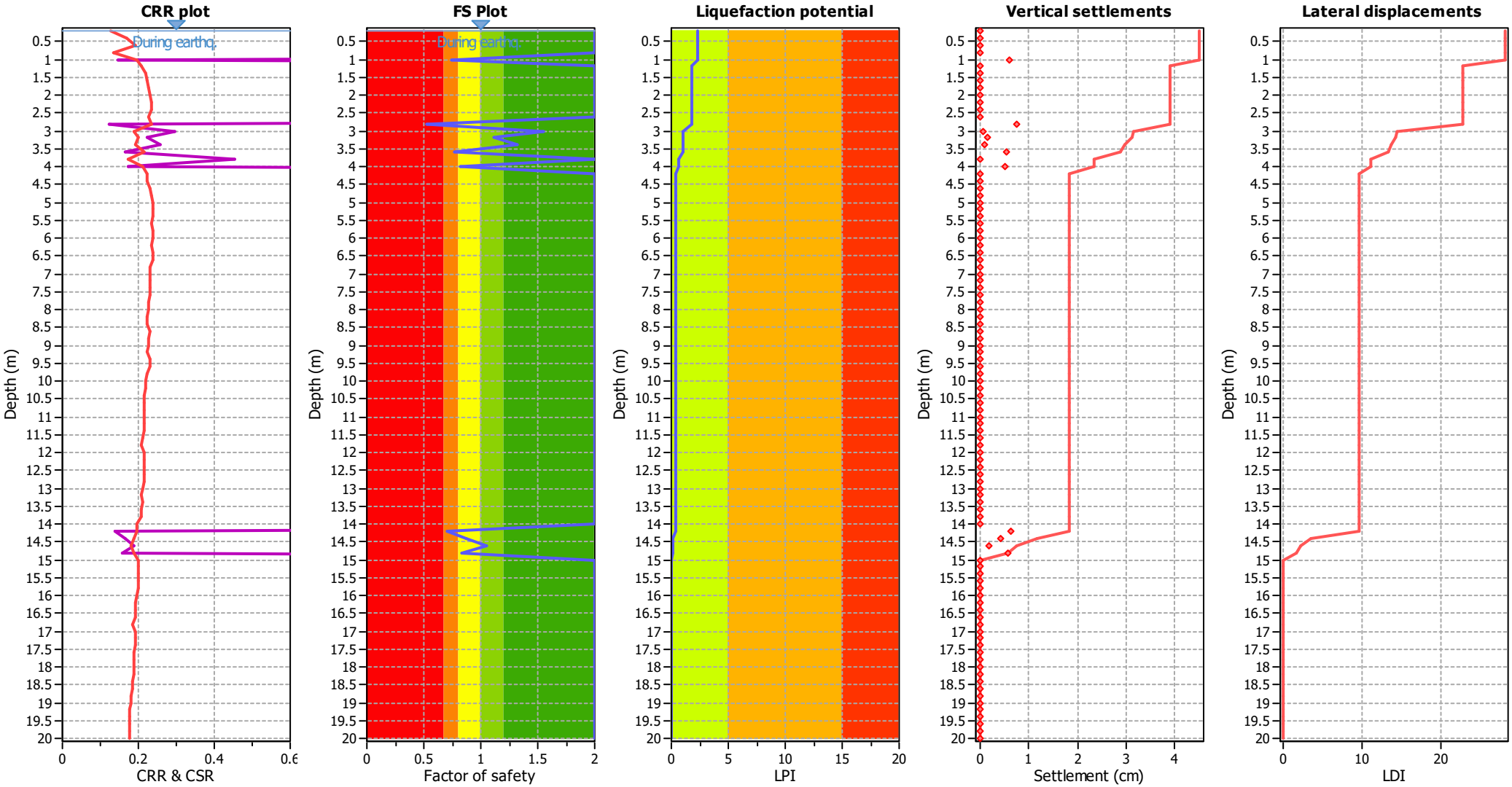






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.74	0.26	1.15	0.20	0.48	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	0.53	0.47	0.51	0.20	0.81
3.00	1.55	0.00	0.00	0.20	0.00	3.20	1.12	0.00	0.00	0.20	0.00
3.40	1.32	0.00	0.00	0.20	0.00	3.60	0.78	0.22	1.39	0.20	0.37
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.82	0.18	1.90	0.20	0.29
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	0.70	0.30	0.94	0.20	0.17	14.40	0.87	0.13	3.48	0.20	0.07
14.60	1.05	0.00	0.00	0.20	0.00	14.80	0.84	0.16	2.34	0.20	0.08
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.29

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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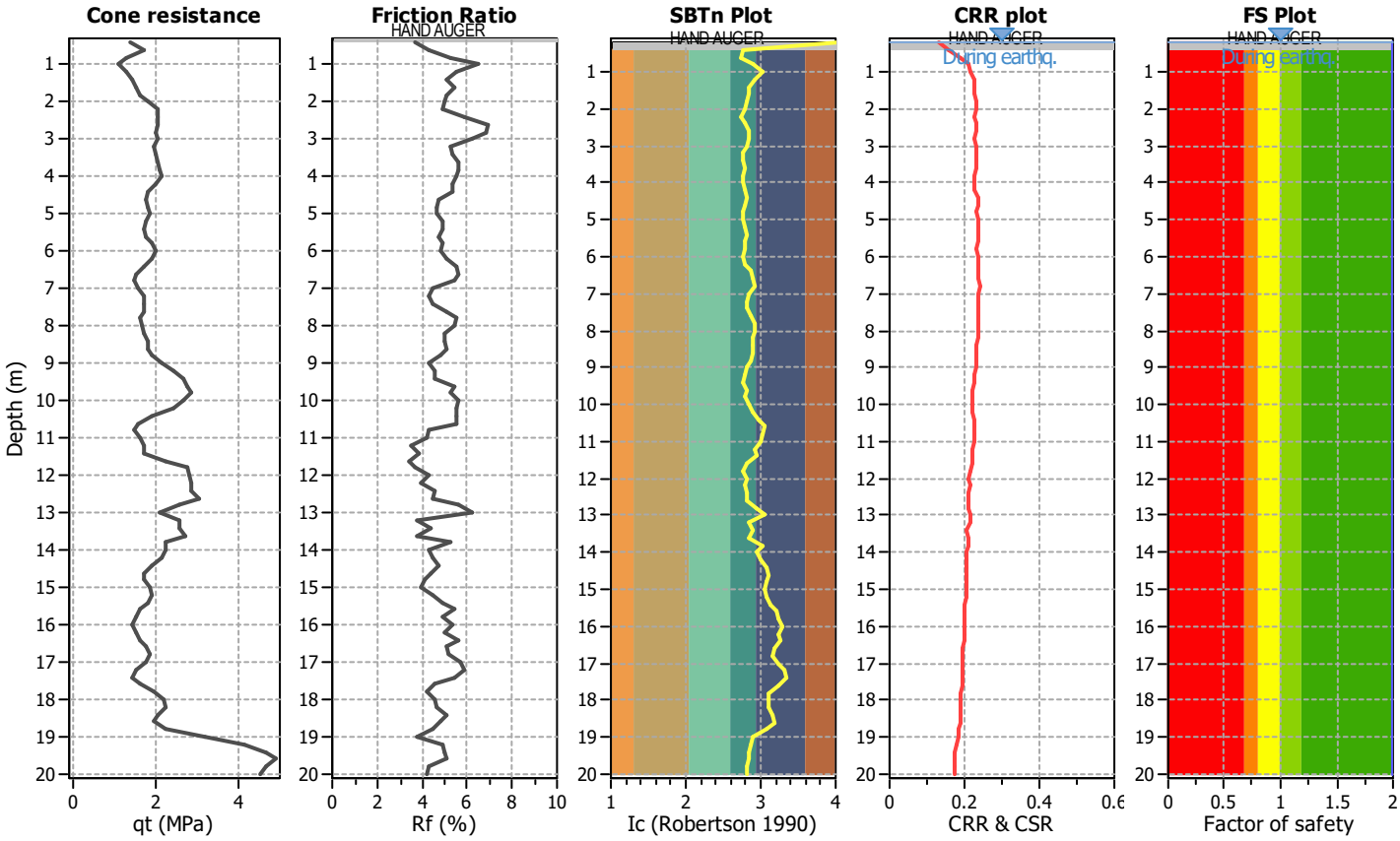
LIQUEFACTION ANALYSIS REPORT

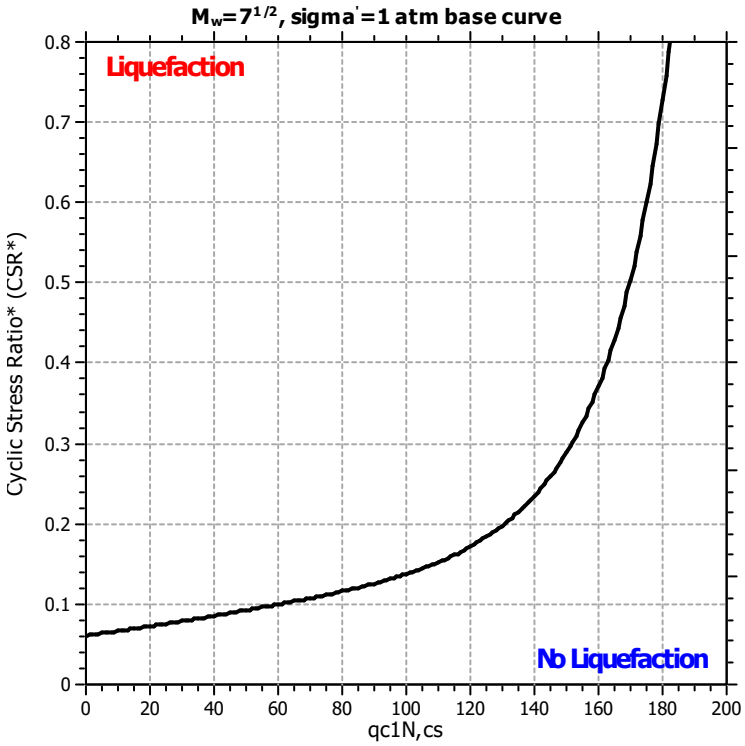
Project title : **Location :**

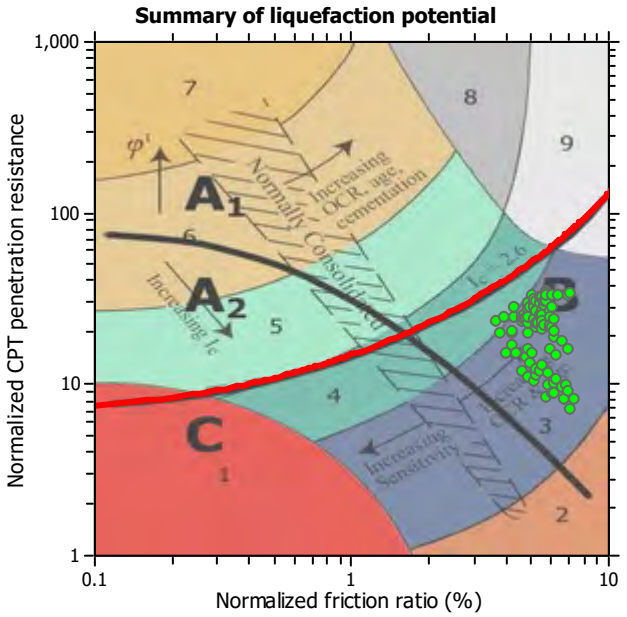
CPT file : SP119

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

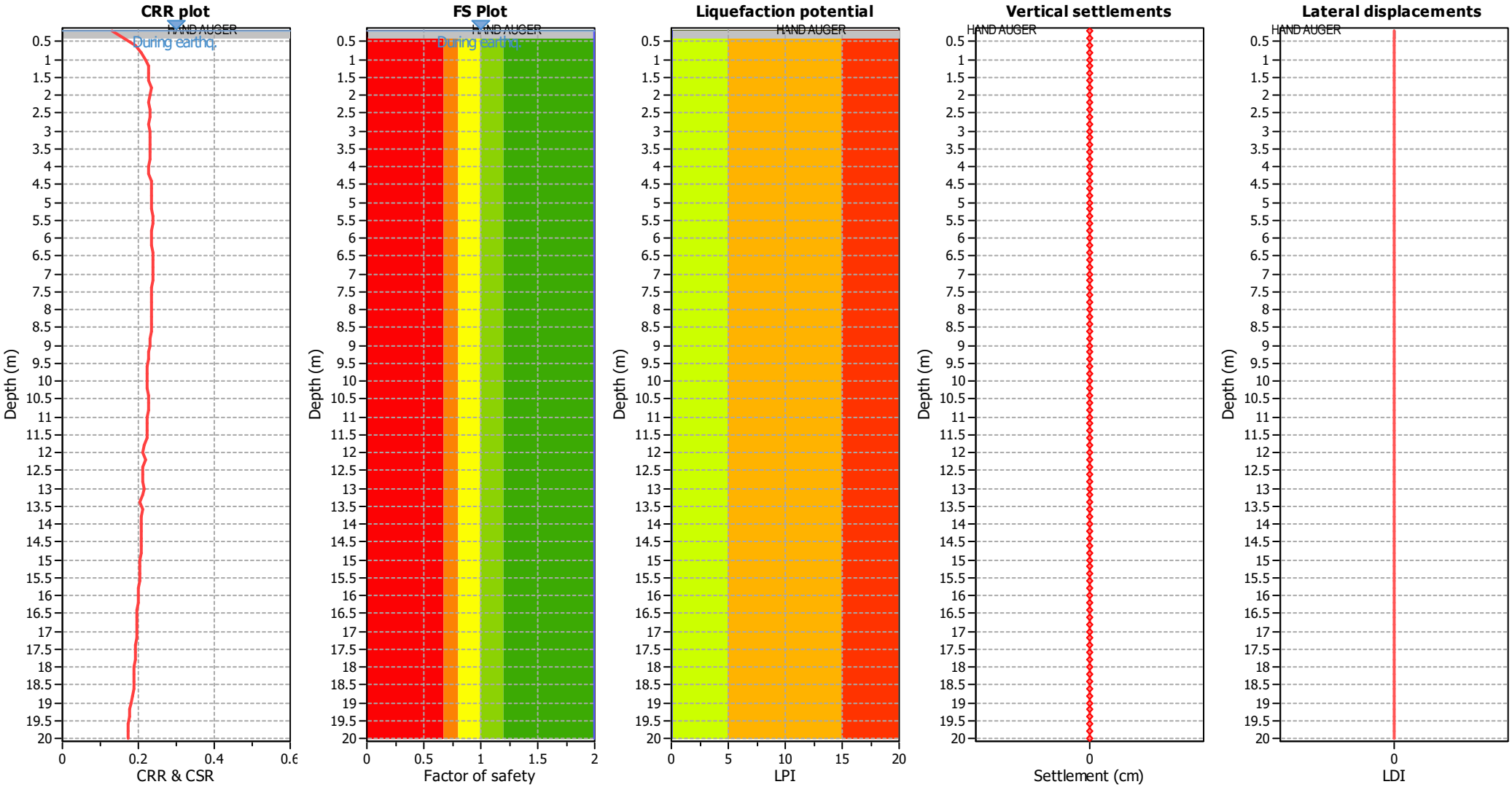






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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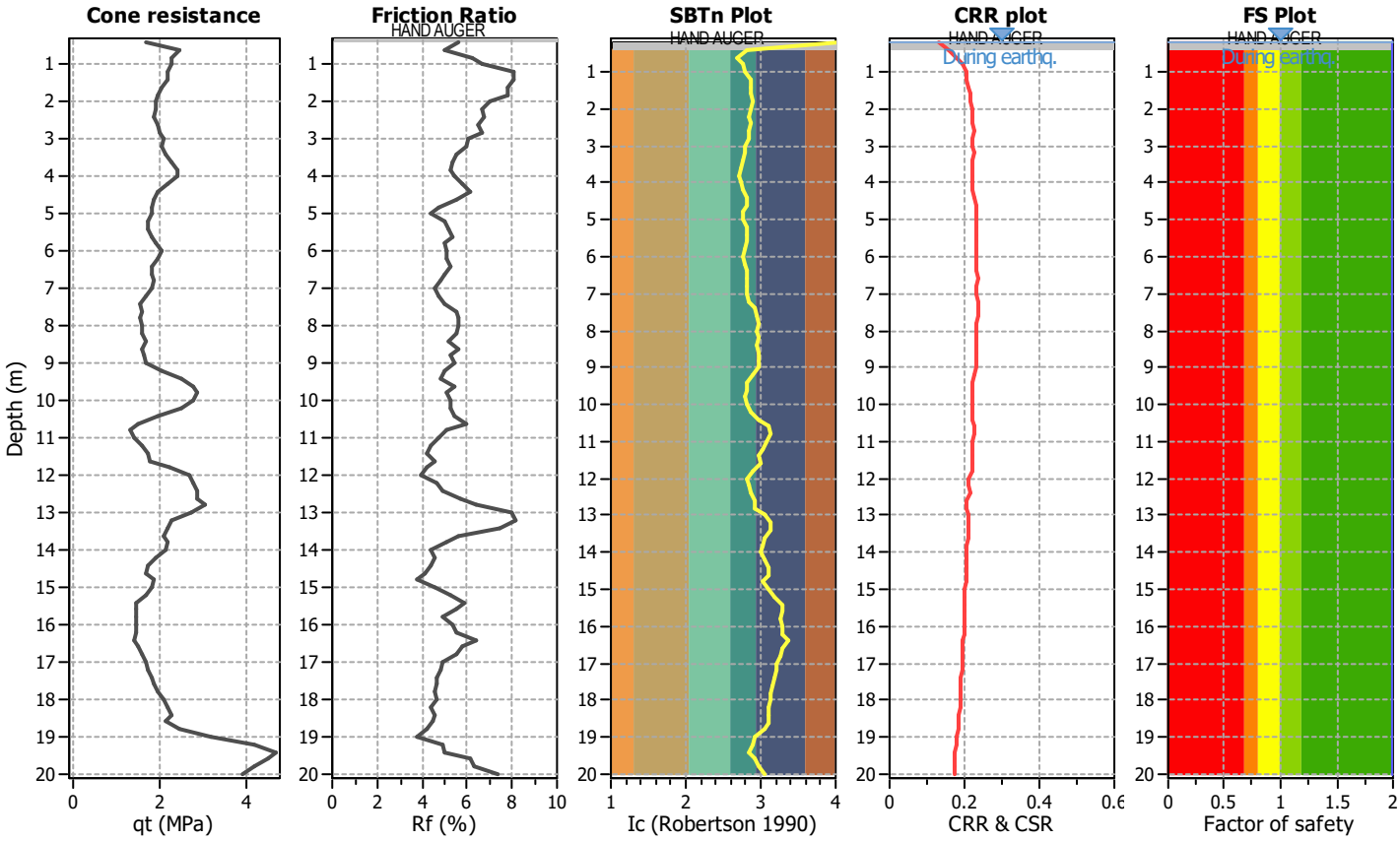
LIQUEFACTION ANALYSIS REPORT

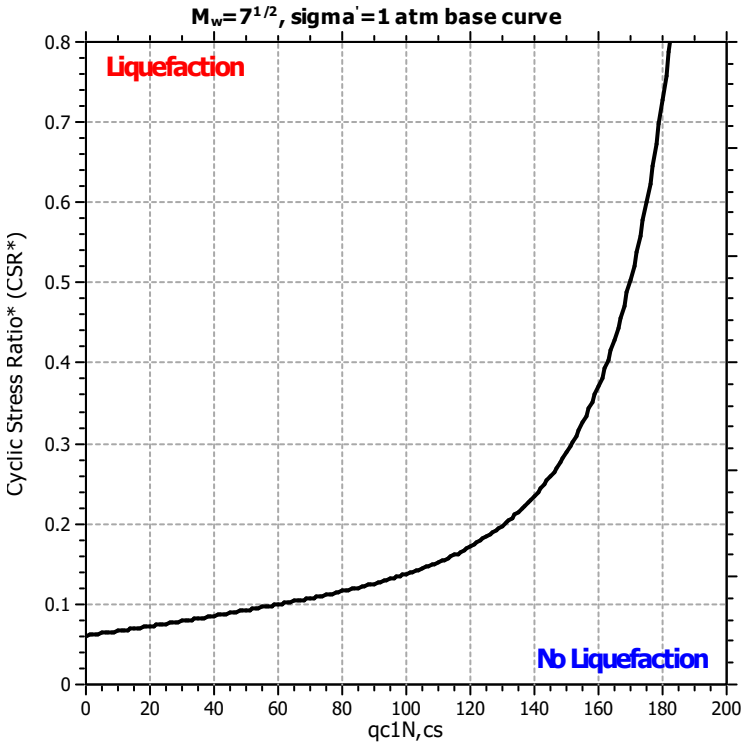
Project title : **Location :**

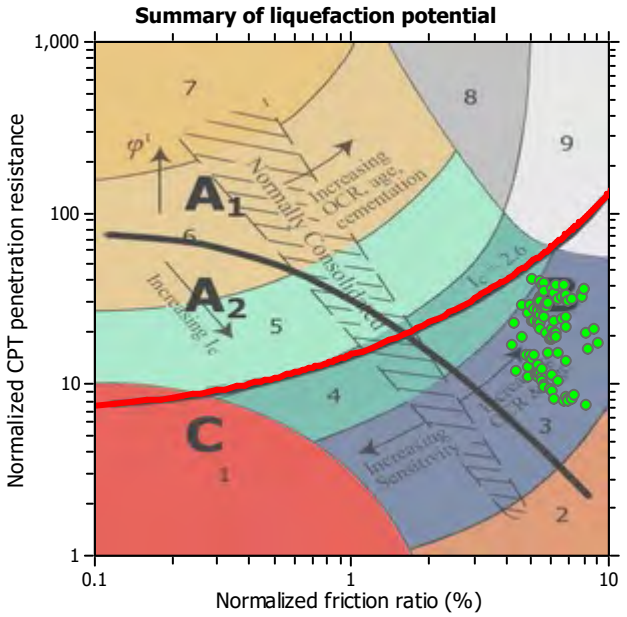
CPT file : SP120

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

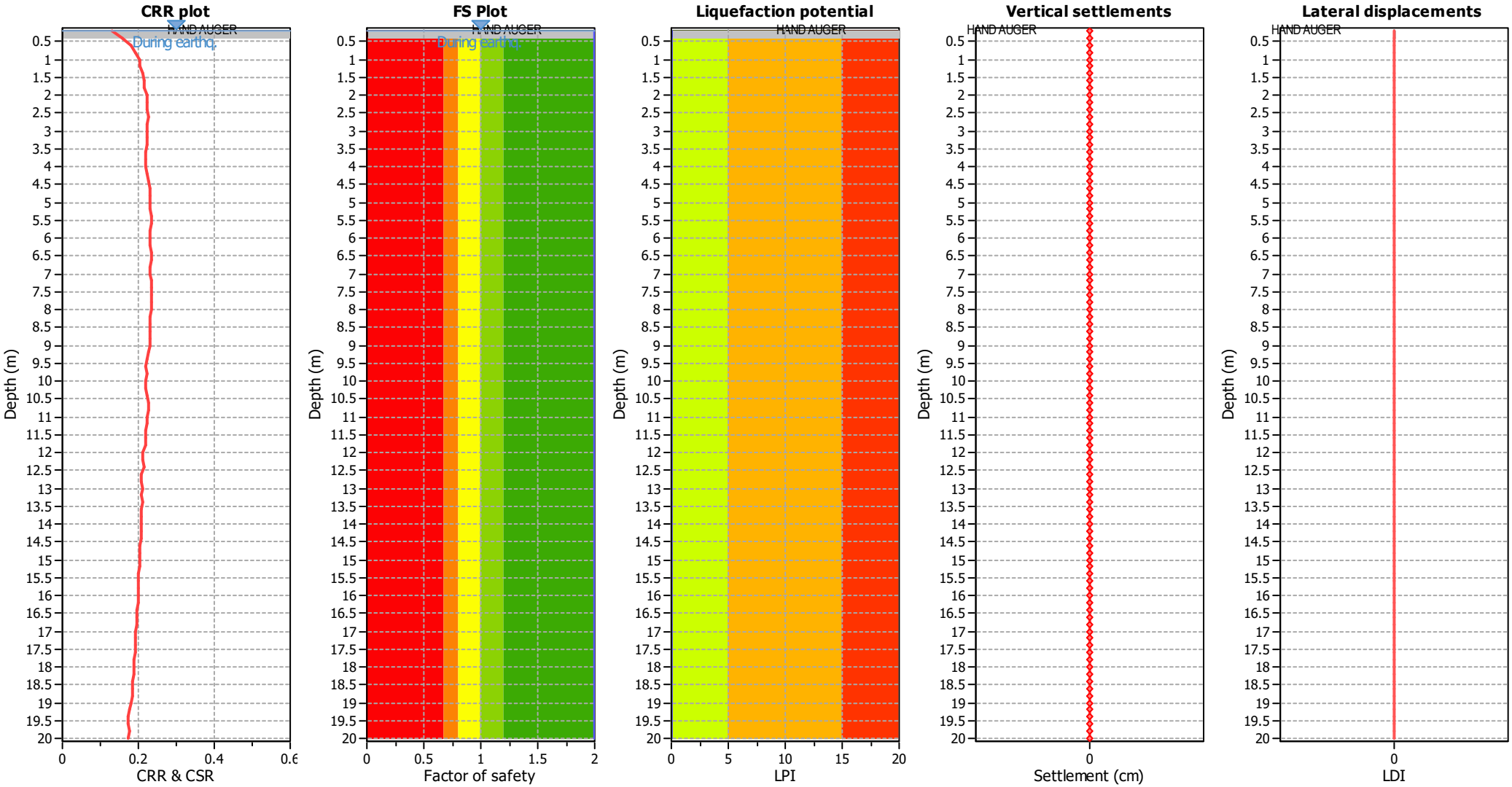






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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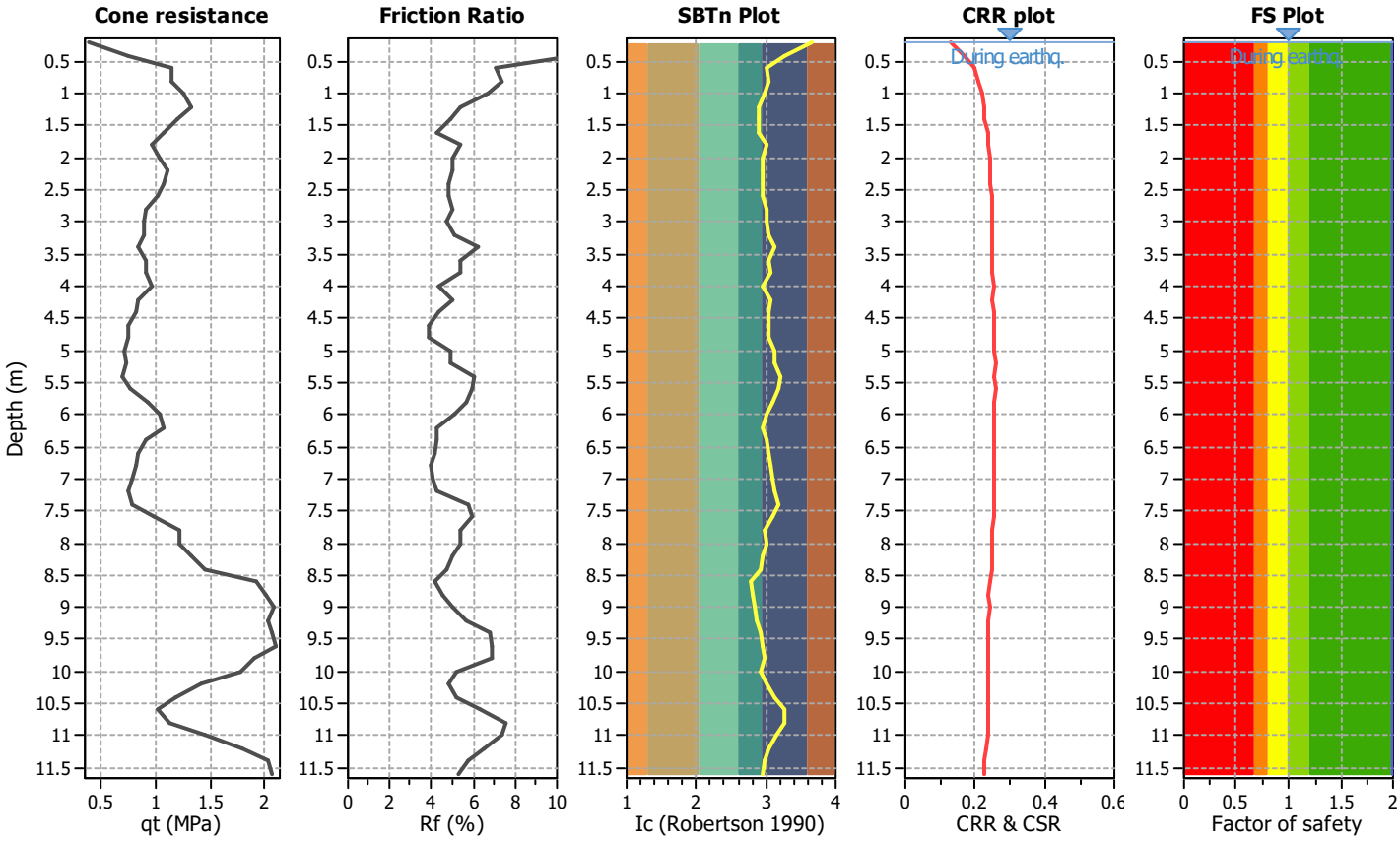
LIQUEFACTION ANALYSIS REPORT

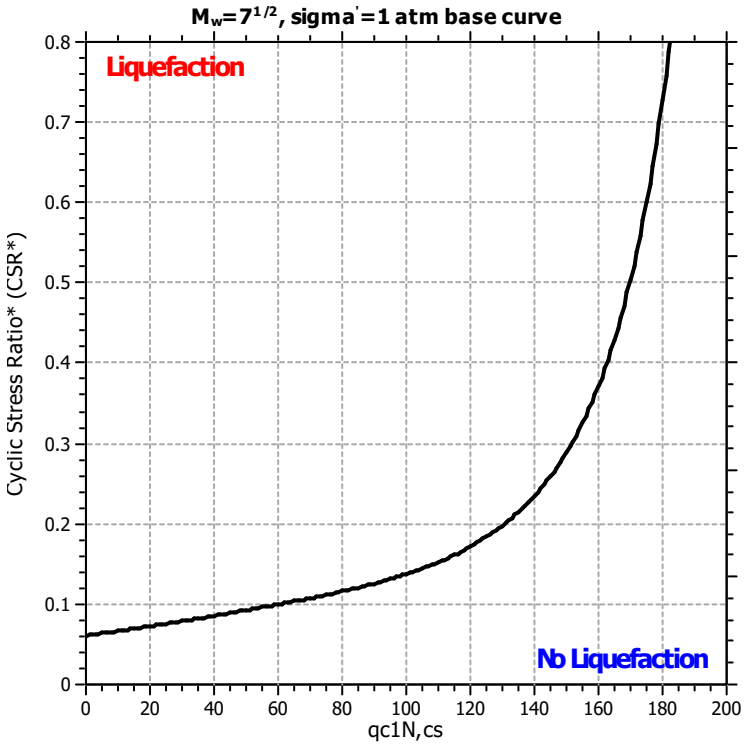
Project title : **Location :**

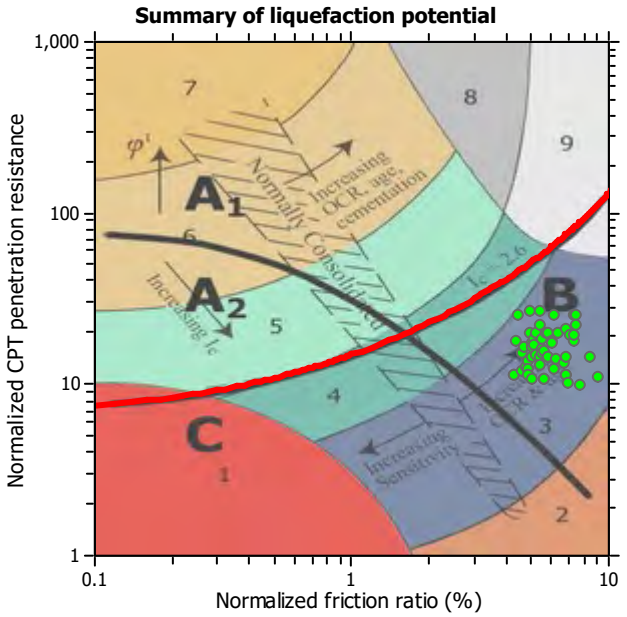
CPT file : SP122

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

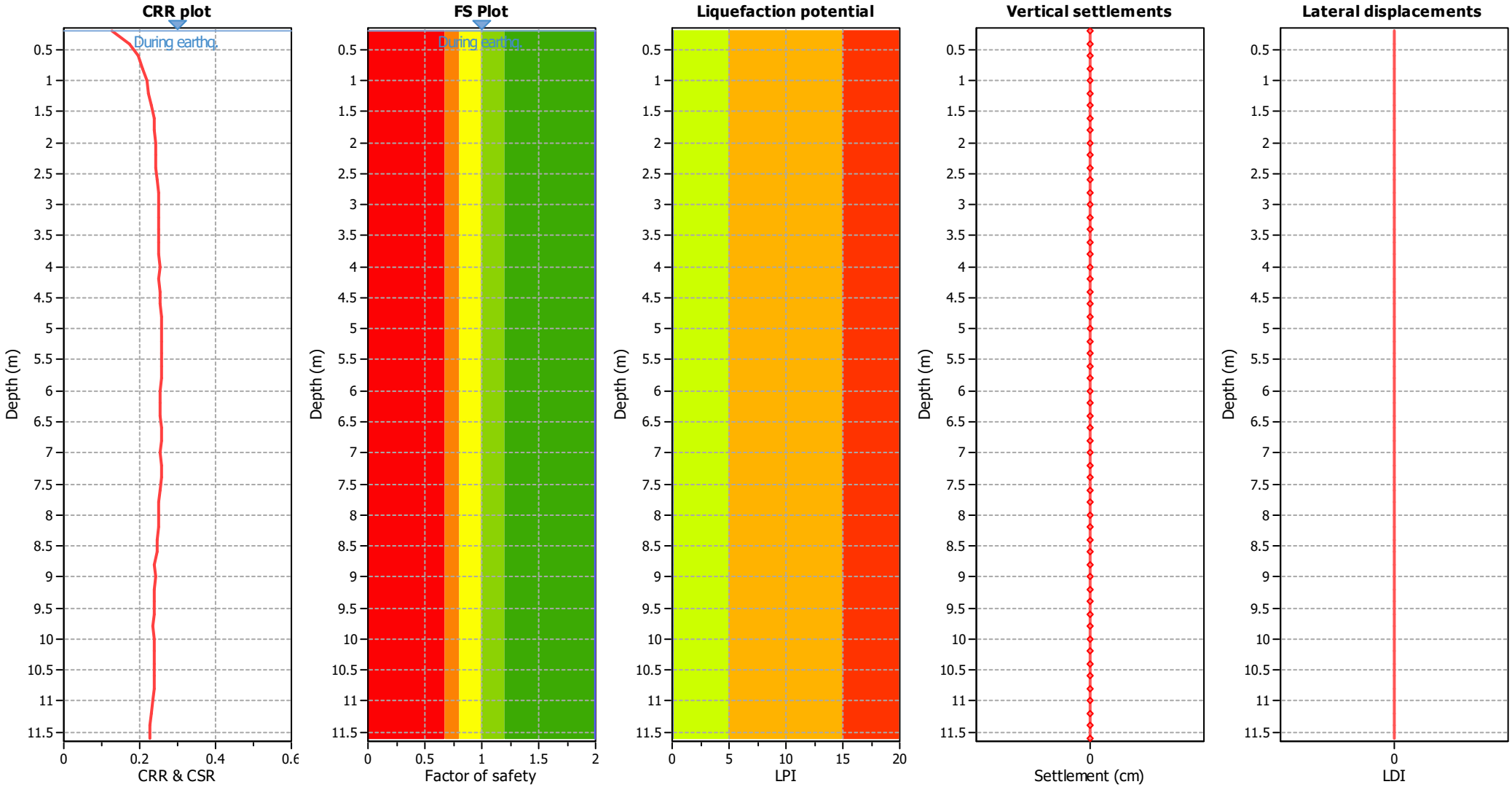






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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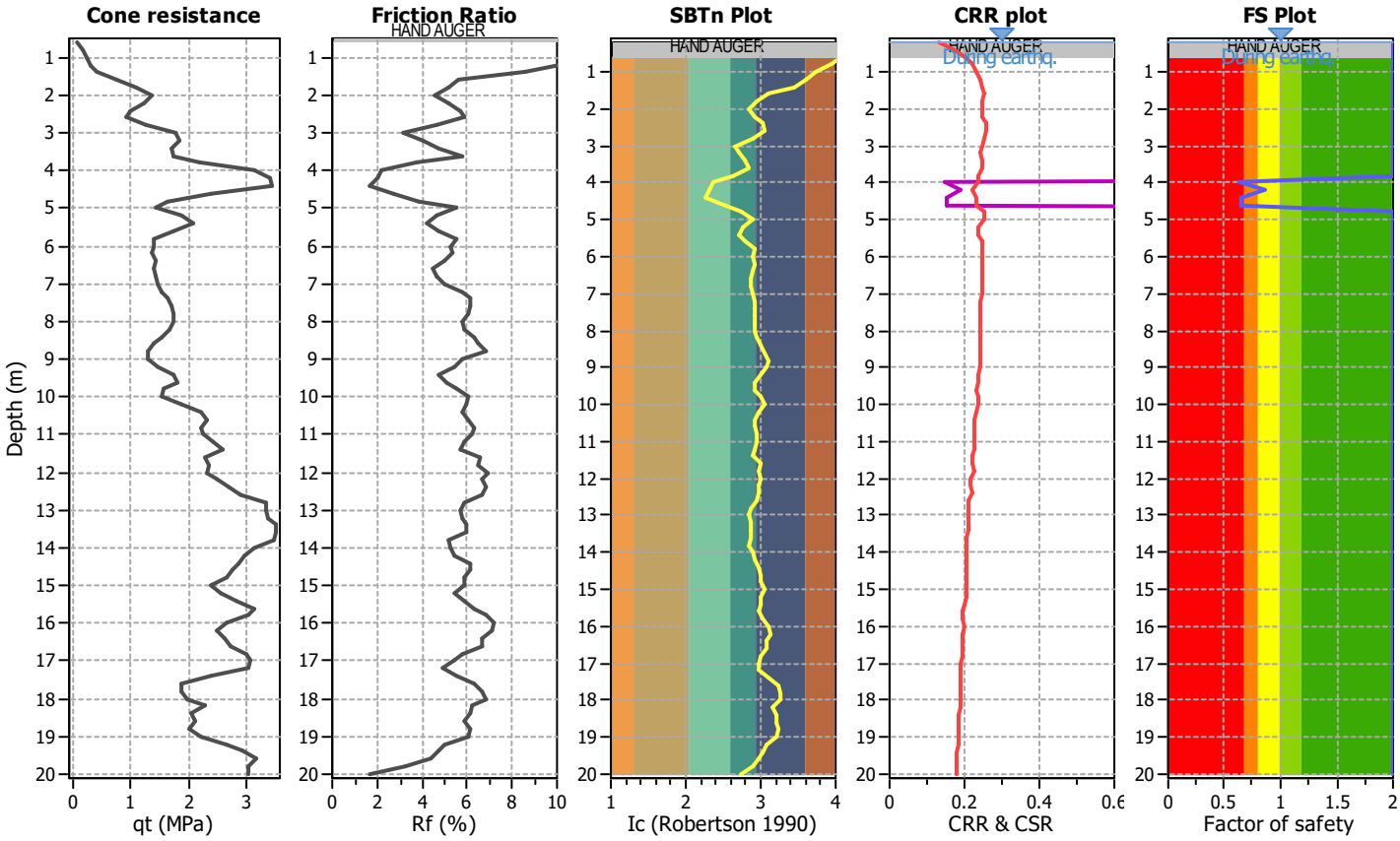
LIQUEFACTION ANALYSIS REPORT

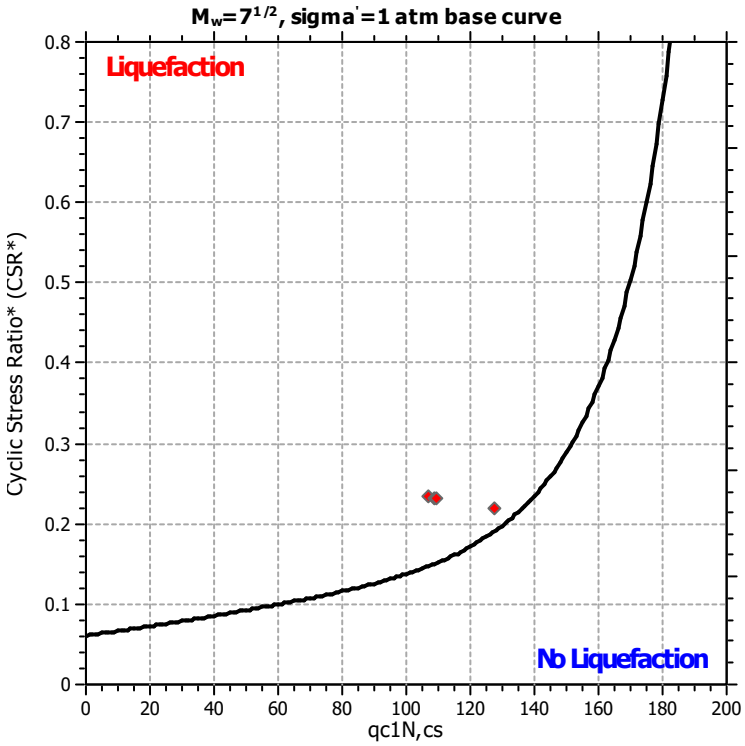
Project title : **Location :**

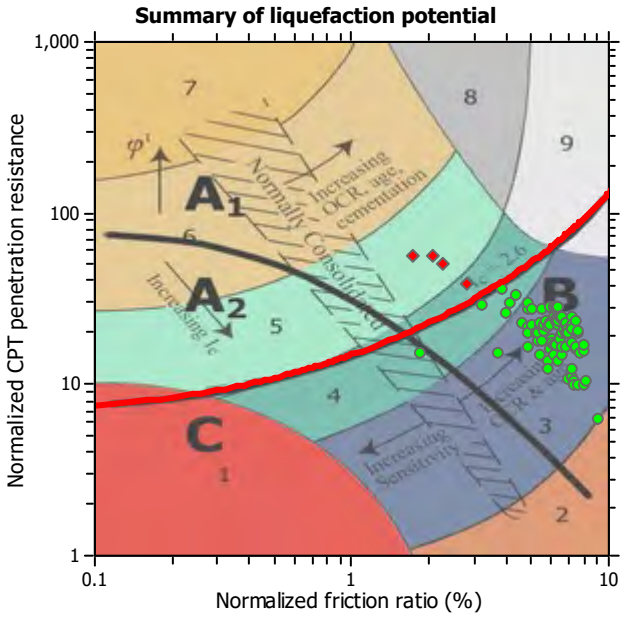
CPT file : SP124

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

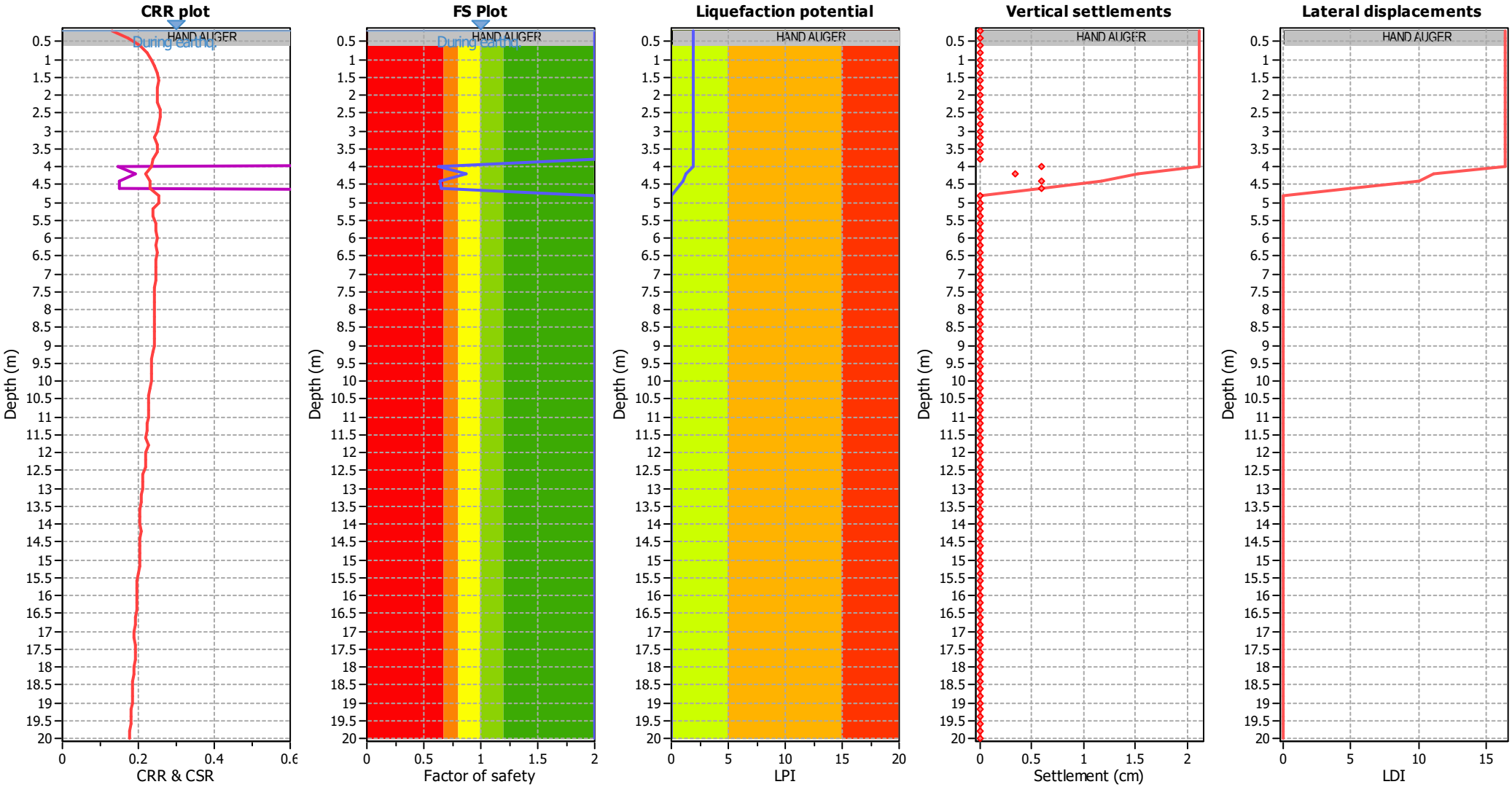






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.63	0.37	0.69	0.20	0.59
4.20	0.87	0.00	0.00	0.20	0.21	4.40	0.65	0.35	0.74	0.20	0.55
4.60	0.65	0.00	0.00	0.20	0.53	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.89

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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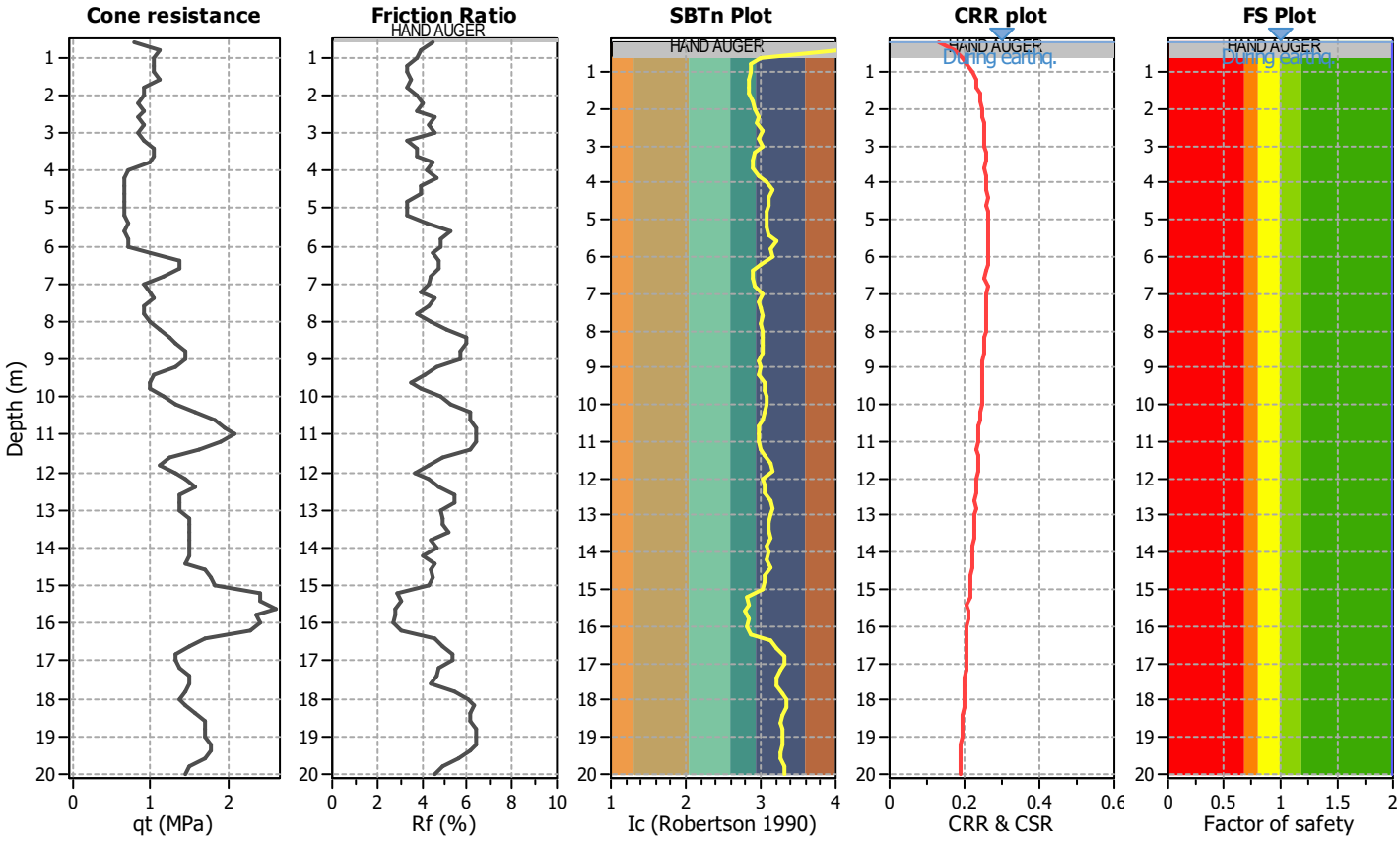
LIQUEFACTION ANALYSIS REPORT

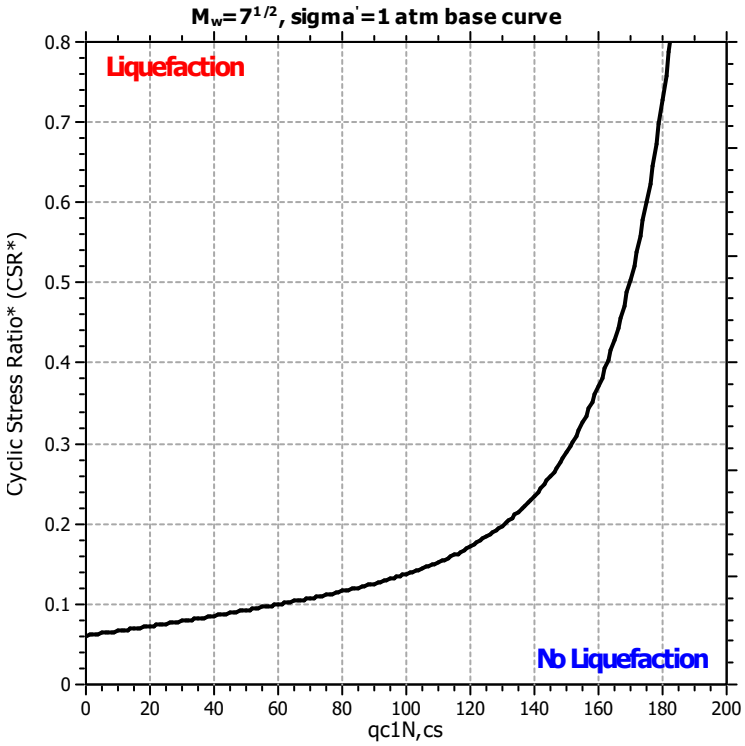
Project title : **Location :**

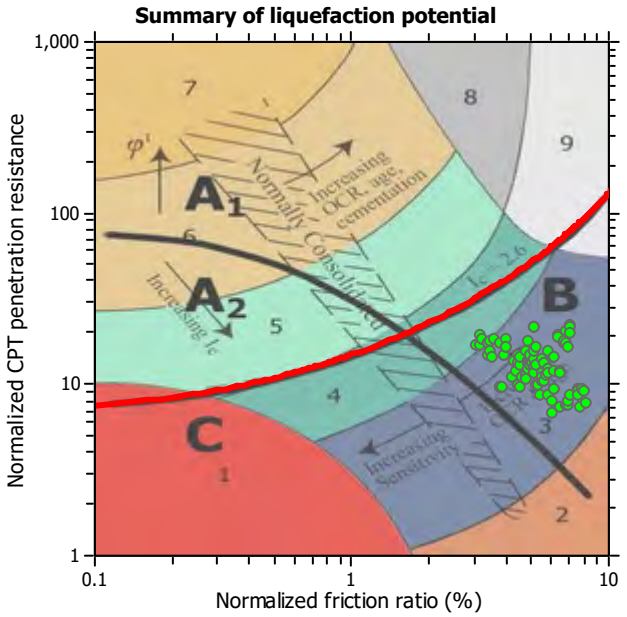
CPT file : SP126

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

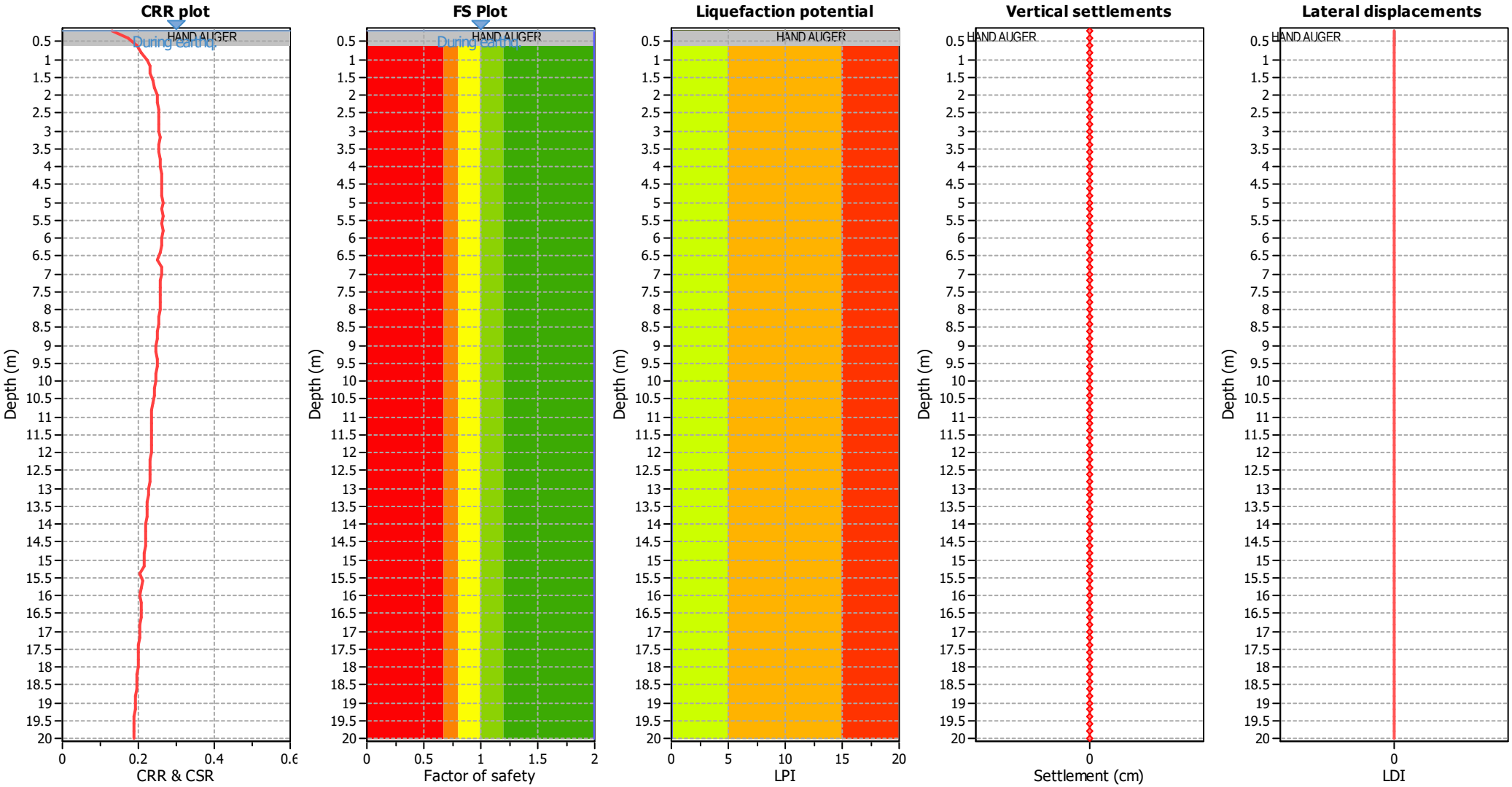






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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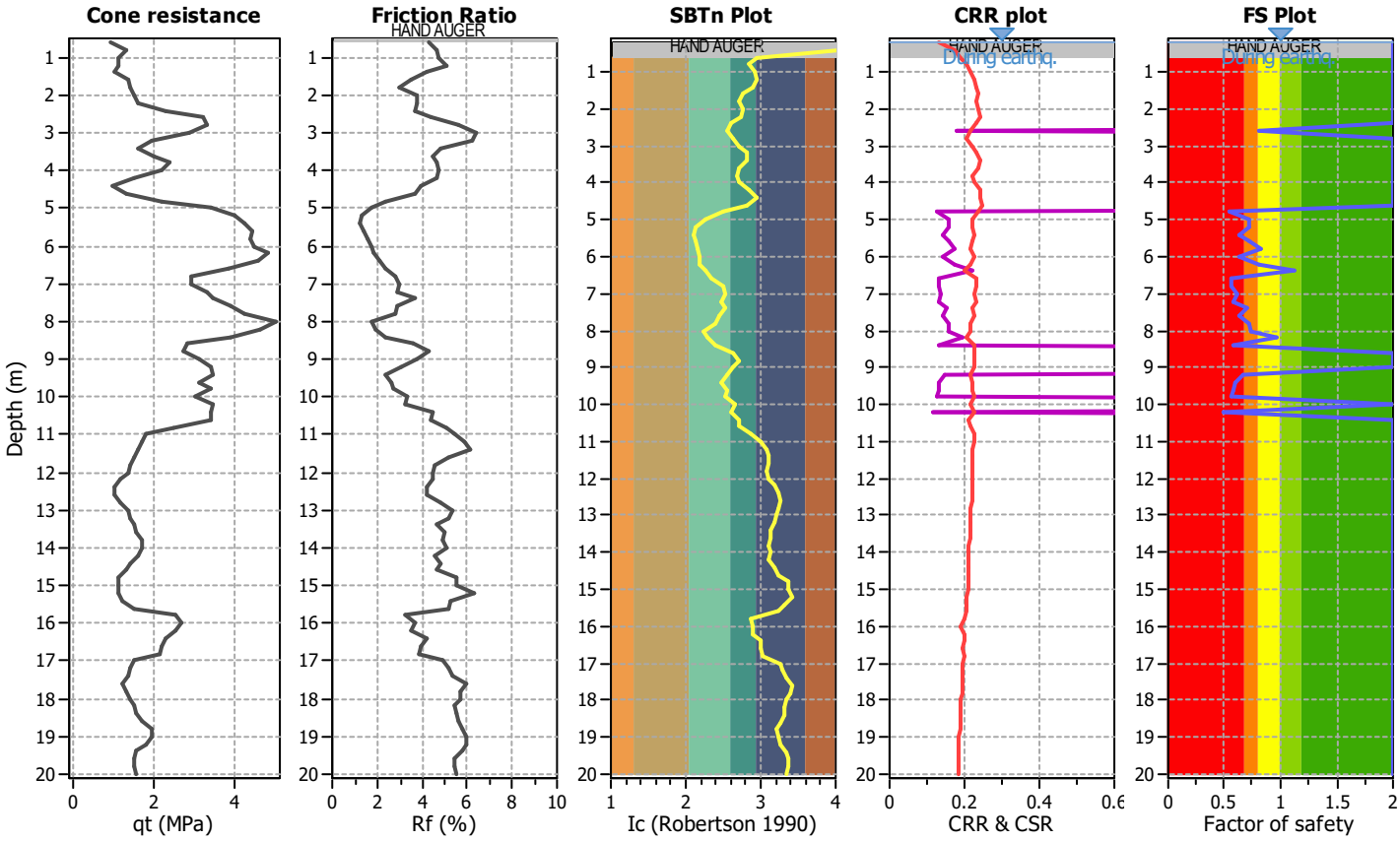
LIQUEFACTION ANALYSIS REPORT

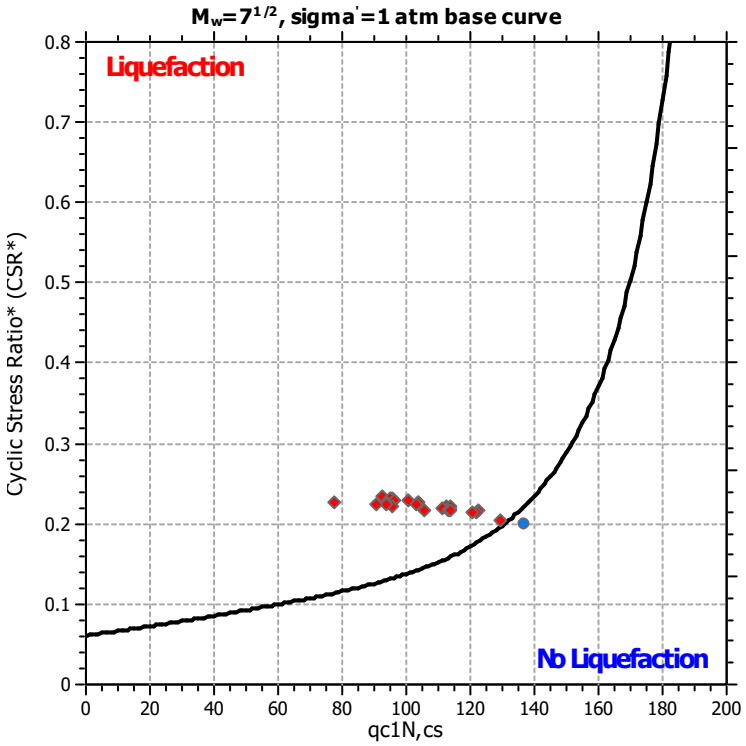
Project title : **Location :**

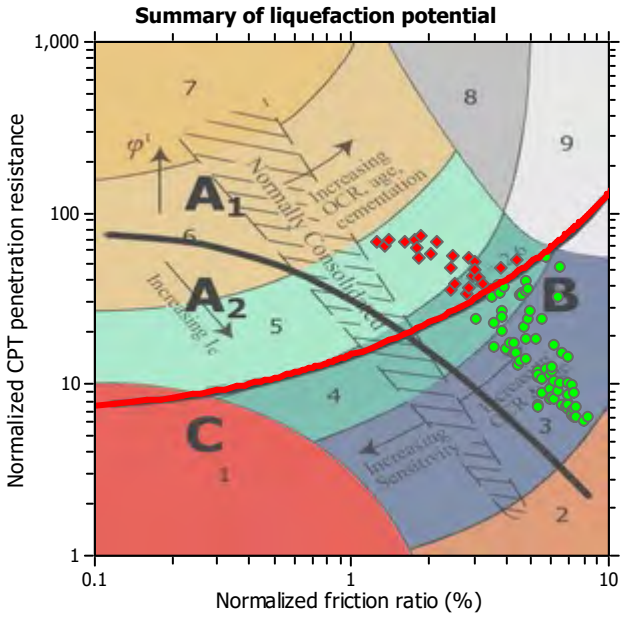
CPT file : SP127

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

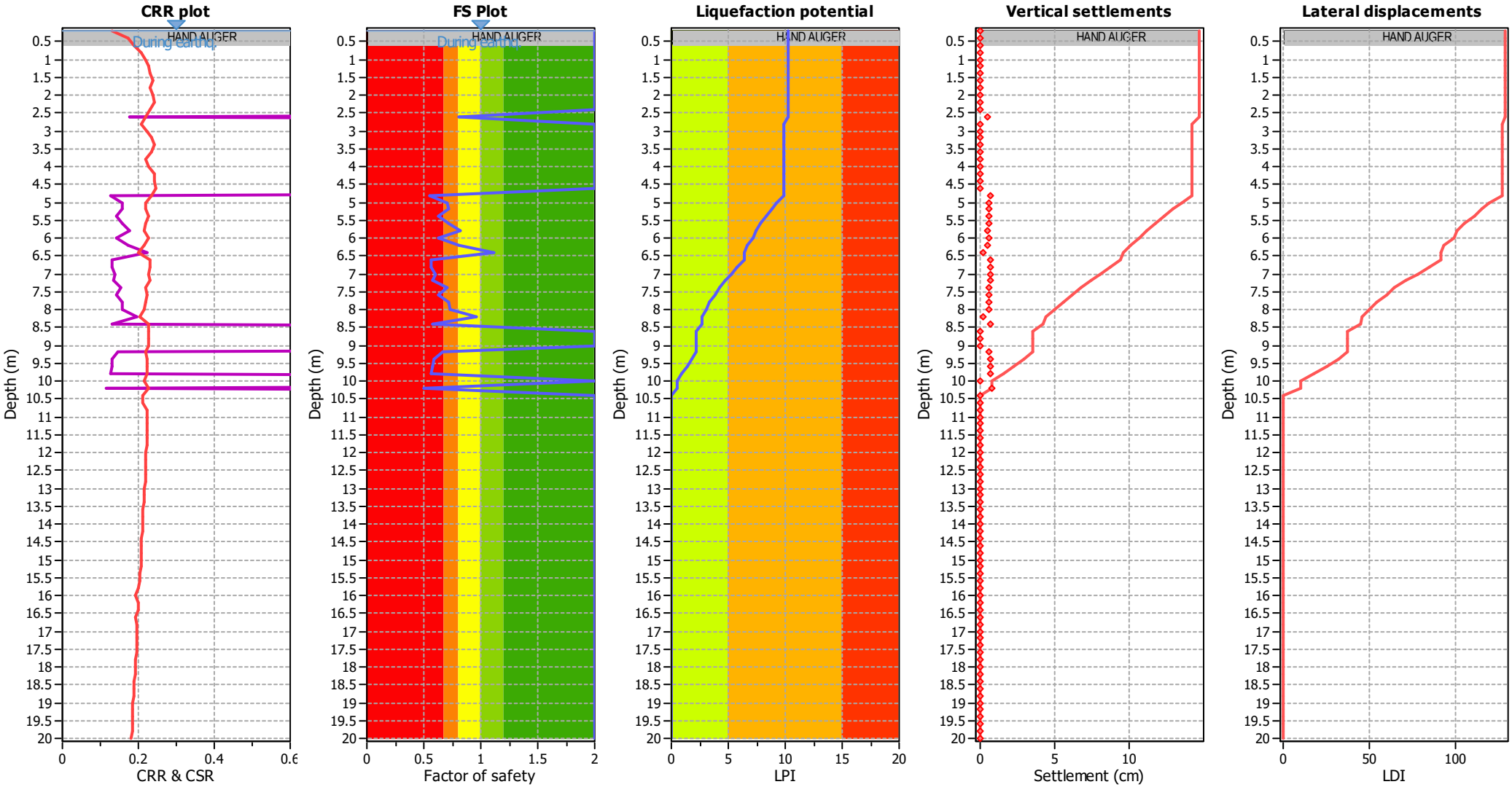






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	0.81	0.00	0.00	0.20	0.33	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	0.54	0.46	0.54	0.20	0.69
5.00	0.71	0.00	0.00	0.20	0.43	5.20	0.72	0.00	0.00	0.20	0.41
5.40	0.63	0.00	0.00	0.20	0.54	5.60	0.72	0.00	0.00	0.20	0.41
5.80	0.82	0.00	0.00	0.20	0.26	6.00	0.63	0.00	0.00	0.20	0.52
6.20	0.80	0.00	0.00	0.20	0.27	6.40	1.12	0.00	0.00	0.20	0.00
6.60	0.57	0.43	0.57	0.20	0.58	6.80	0.56	0.44	0.57	0.20	0.57
7.00	0.61	0.00	0.00	0.20	0.51	7.20	0.58	0.42	0.59	0.20	0.54
7.40	0.70	0.00	0.00	0.20	0.37	7.60	0.63	0.00	0.00	0.20	0.46
7.80	0.72	0.00	0.00	0.20	0.34	8.00	0.74	0.00	0.00	0.20	0.32
8.20	0.97	0.00	0.00	0.20	0.04	8.40	0.57	0.43	0.58	0.20	0.50
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	0.67	0.00	0.00	0.20	0.36
9.40	0.59	0.41	0.62	0.20	0.43	9.60	0.58	0.42	0.60	0.20	0.43
9.80	0.56	0.44	0.57	0.20	0.44	10.00	2.00	0.00	0.00	0.20	0.00
10.20	0.50	0.50	0.48	0.20	0.49	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 10.26

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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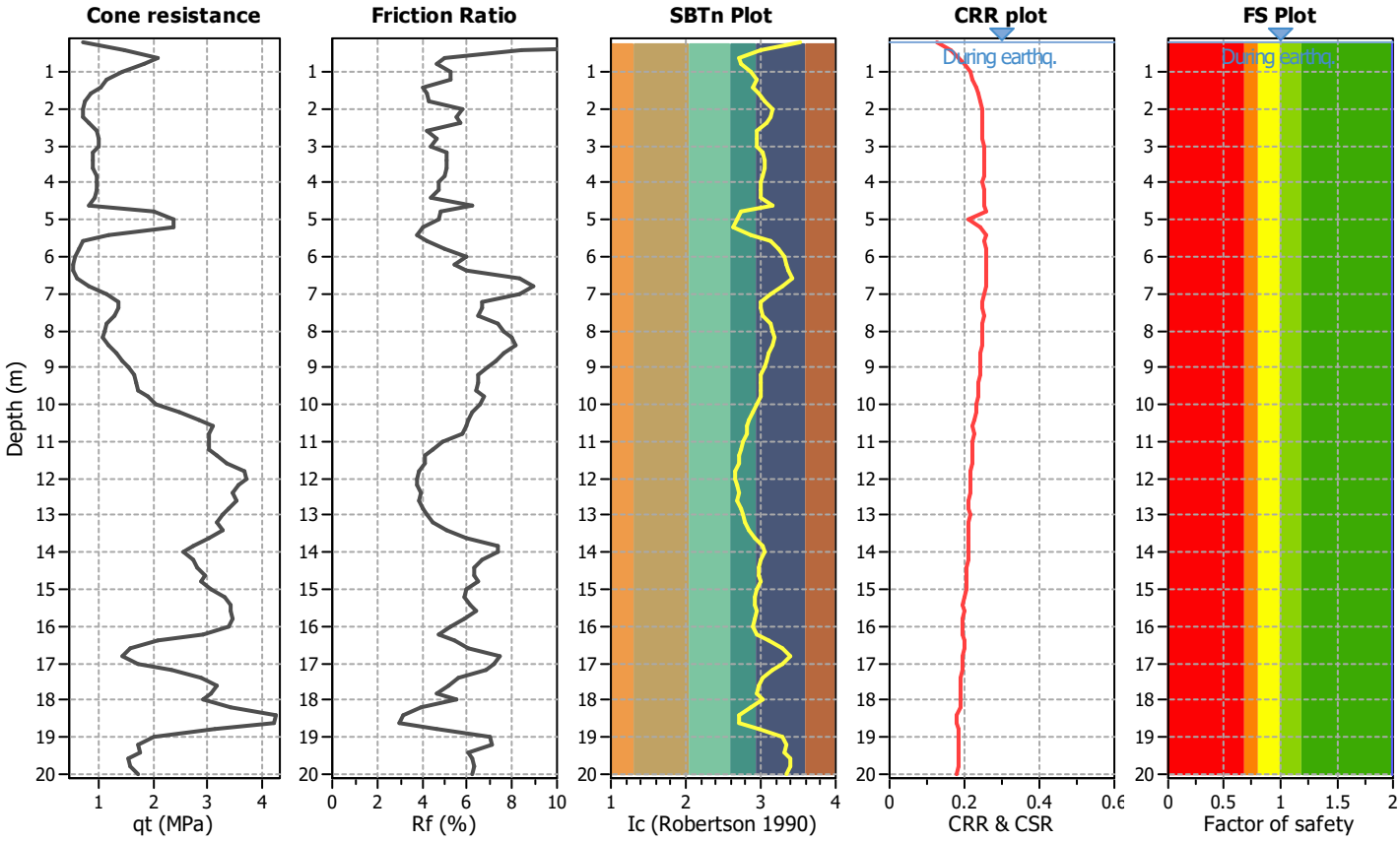
LIQUEFACTION ANALYSIS REPORT

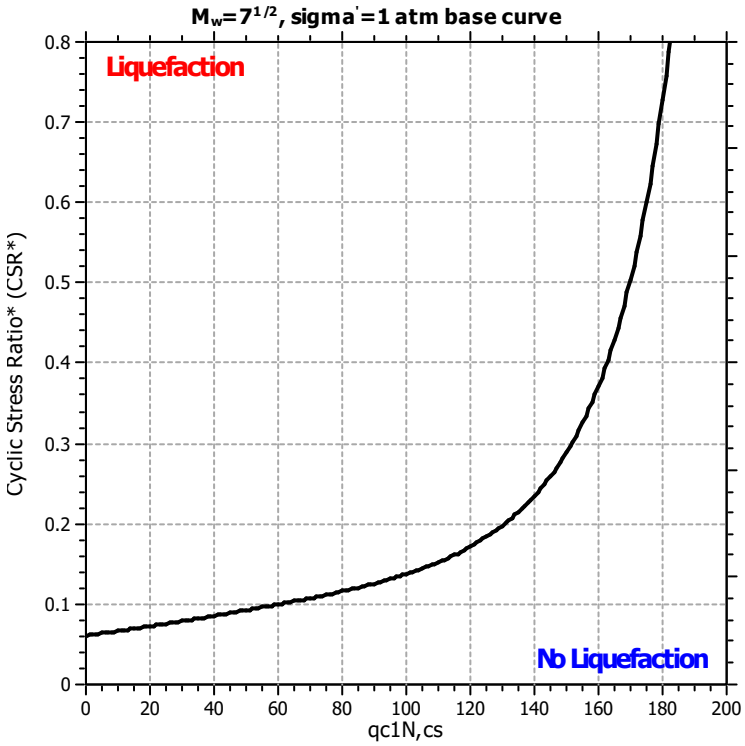
Project title : **Location :**

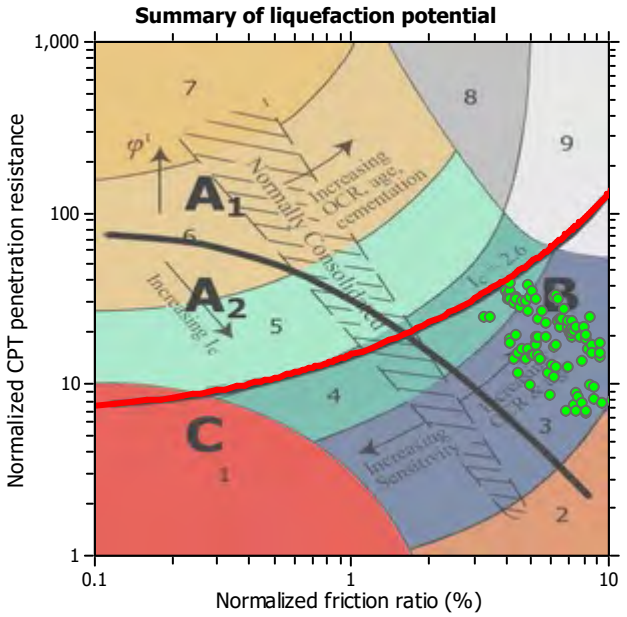
CPT file : SP129

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

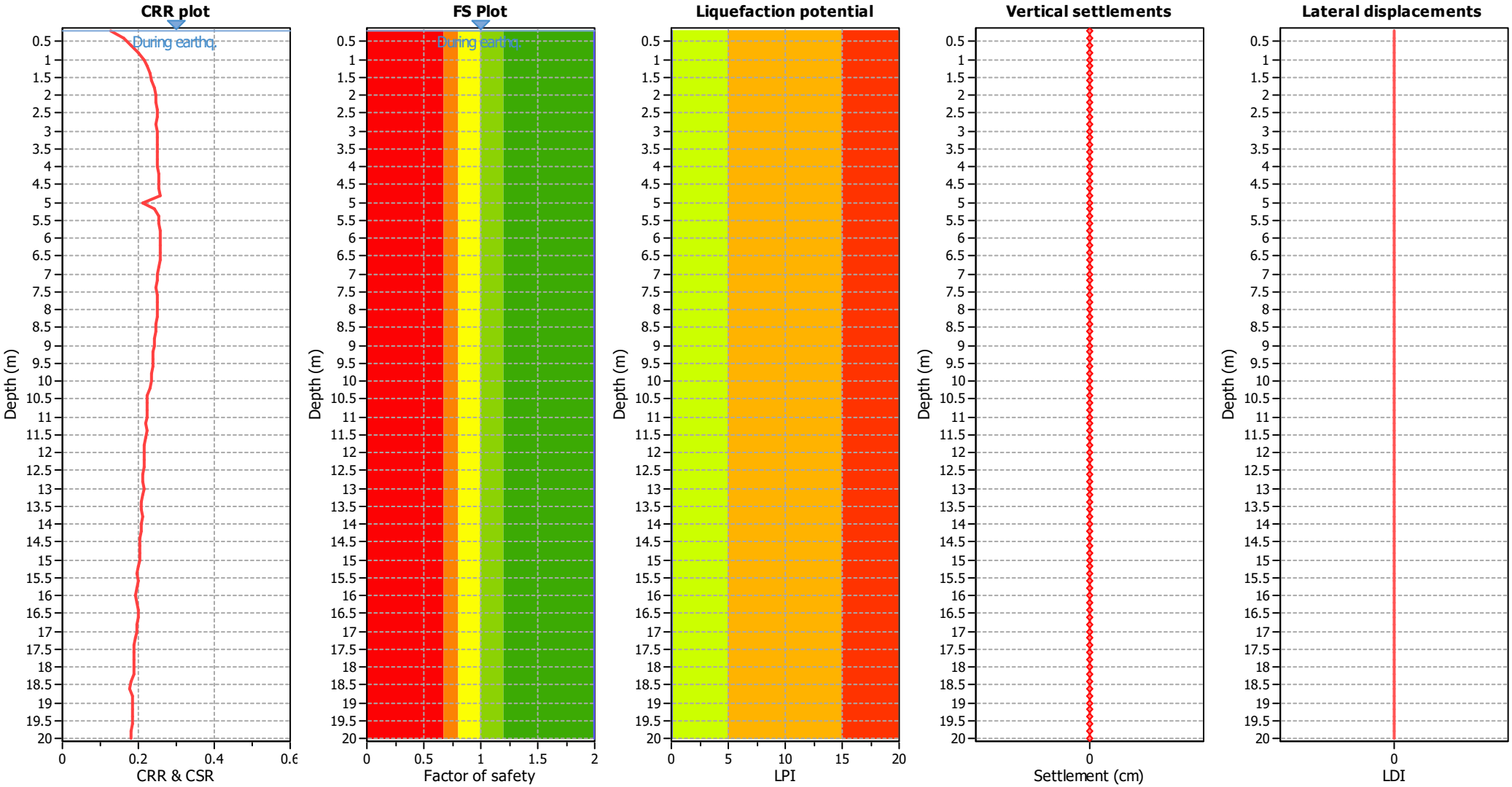






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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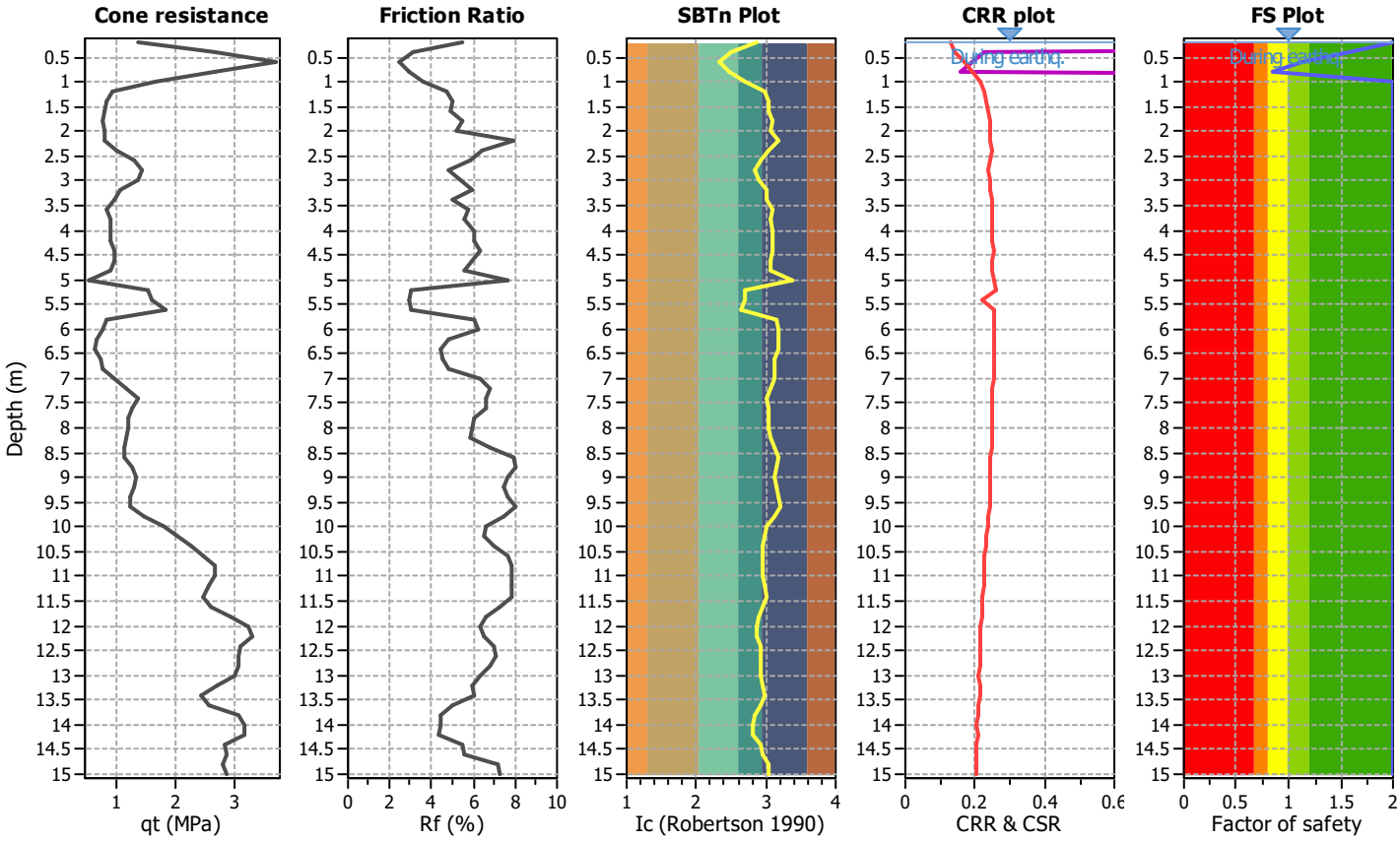
LIQUEFACTION ANALYSIS REPORT

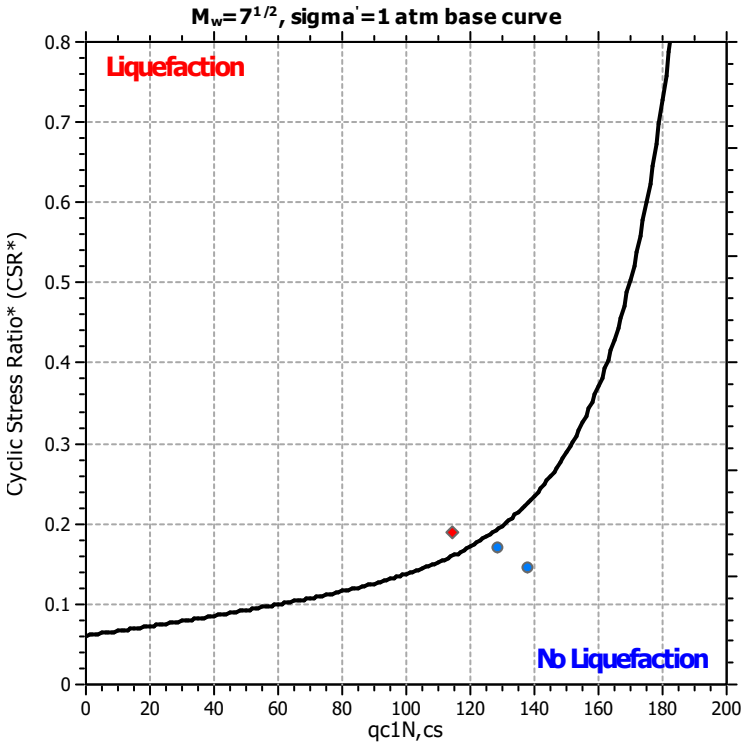
Project title : **Location :**

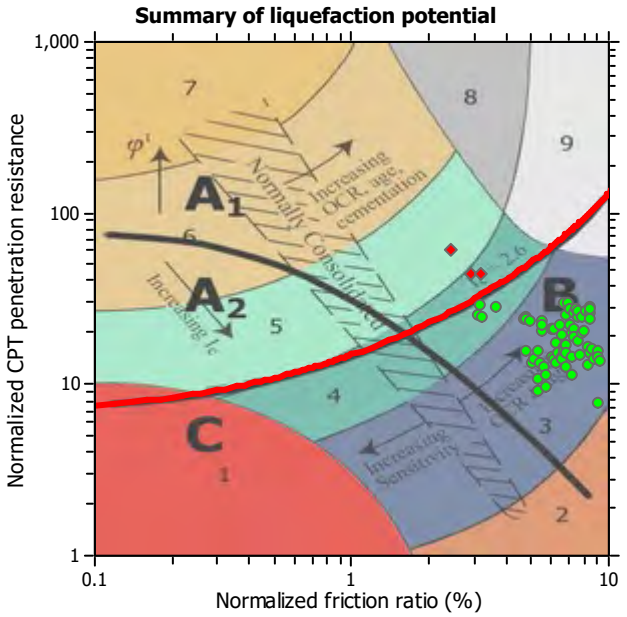
CPT file : SP132

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

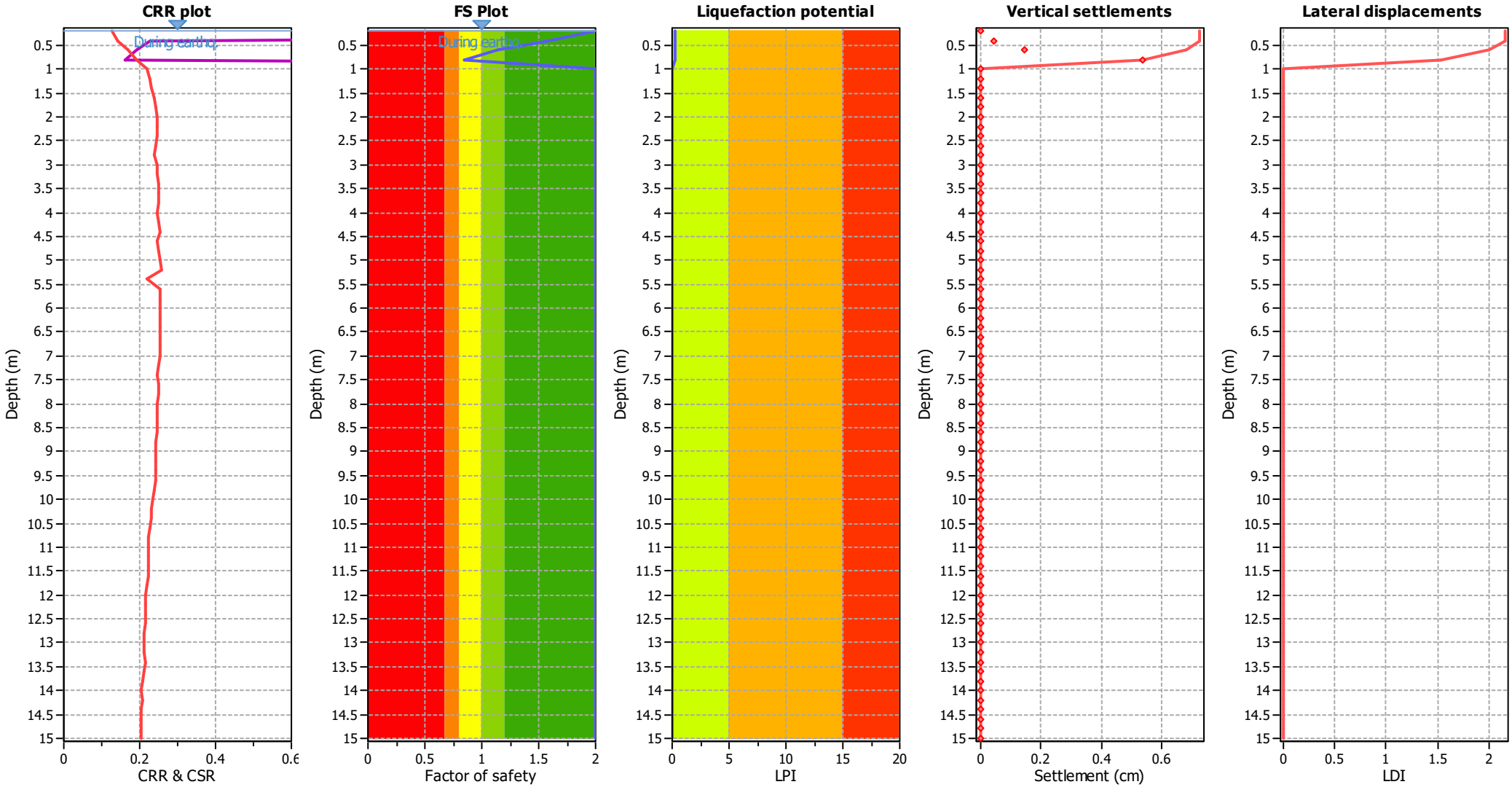






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	1.58	0.00	0.00	0.20	0.00
0.60	1.14	0.00	0.00	0.20	0.00	0.80	0.84	0.16	2.40	0.20	0.31
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.31

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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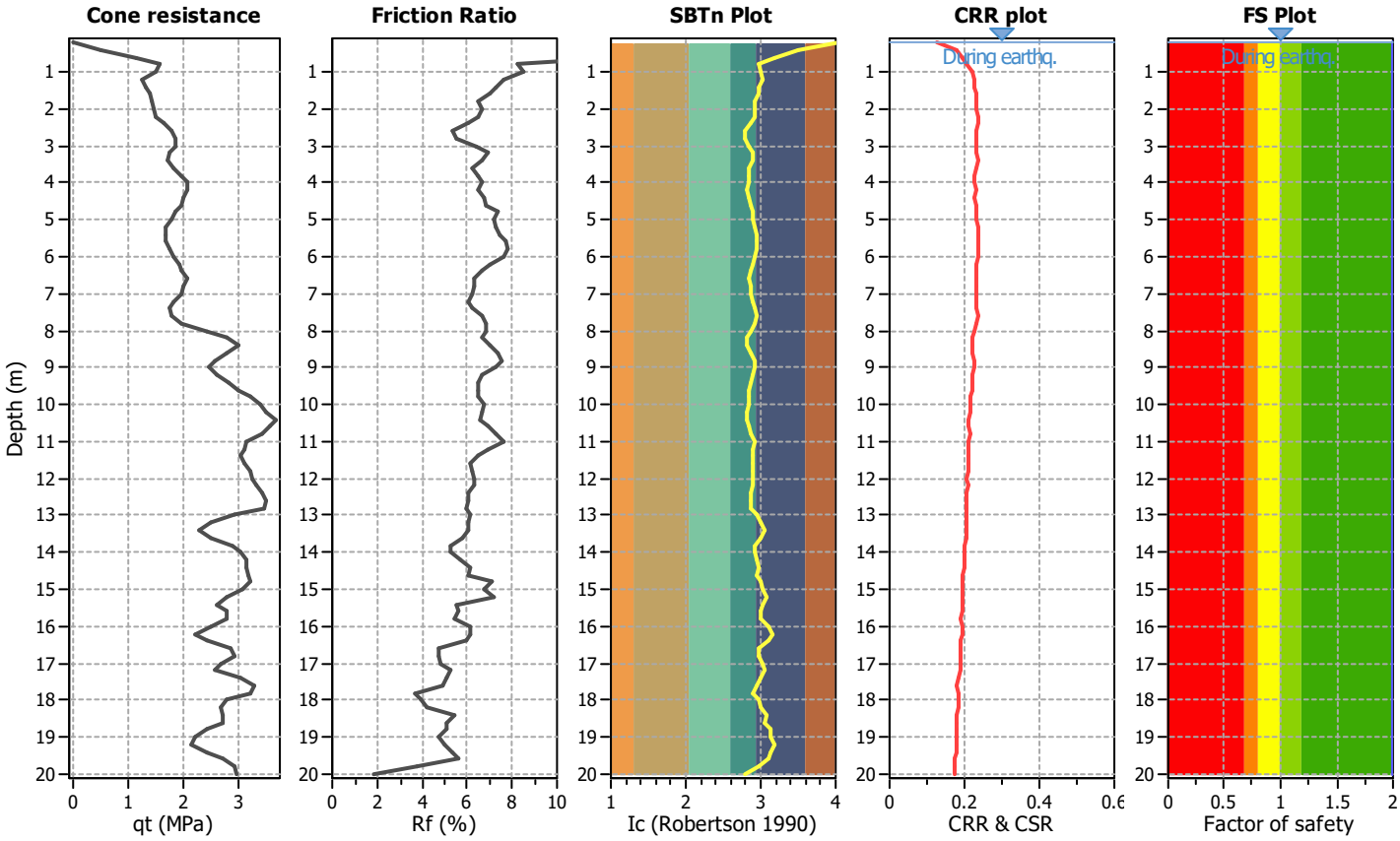
LIQUEFACTION ANALYSIS REPORT

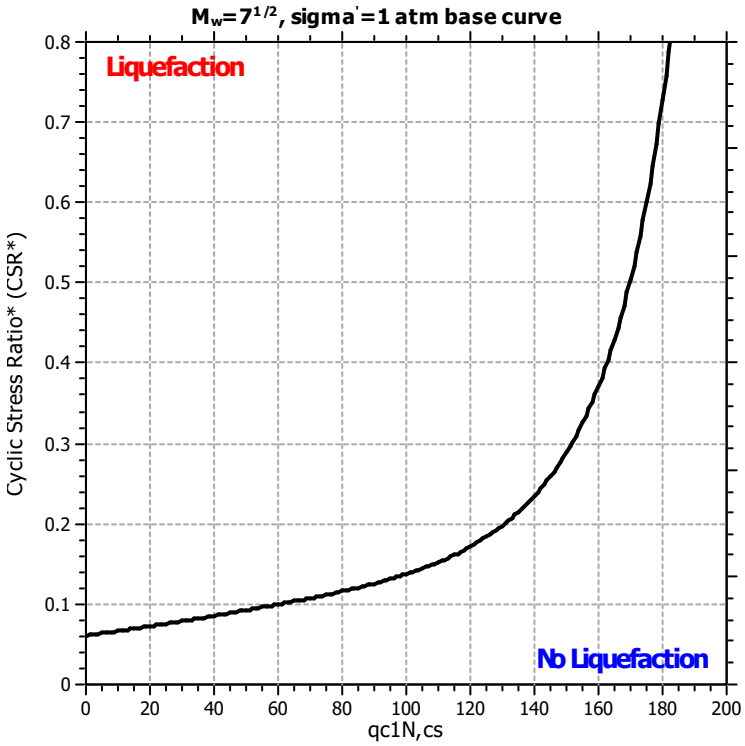
Project title : **Location :**

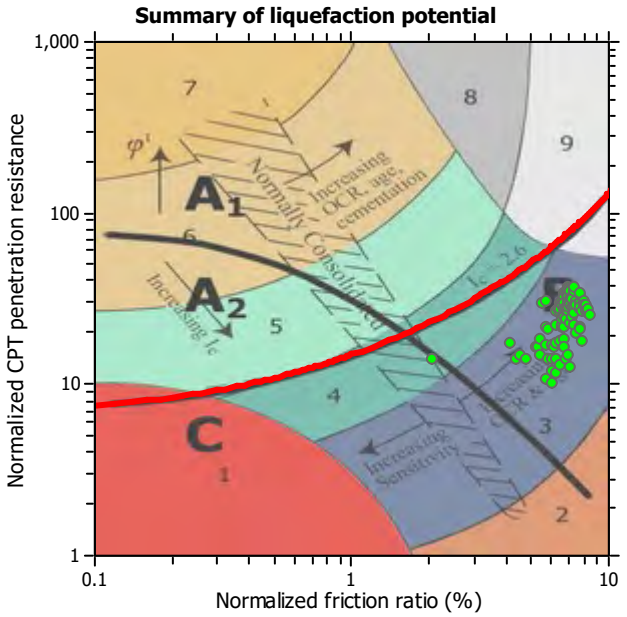
CPT file : SP133

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

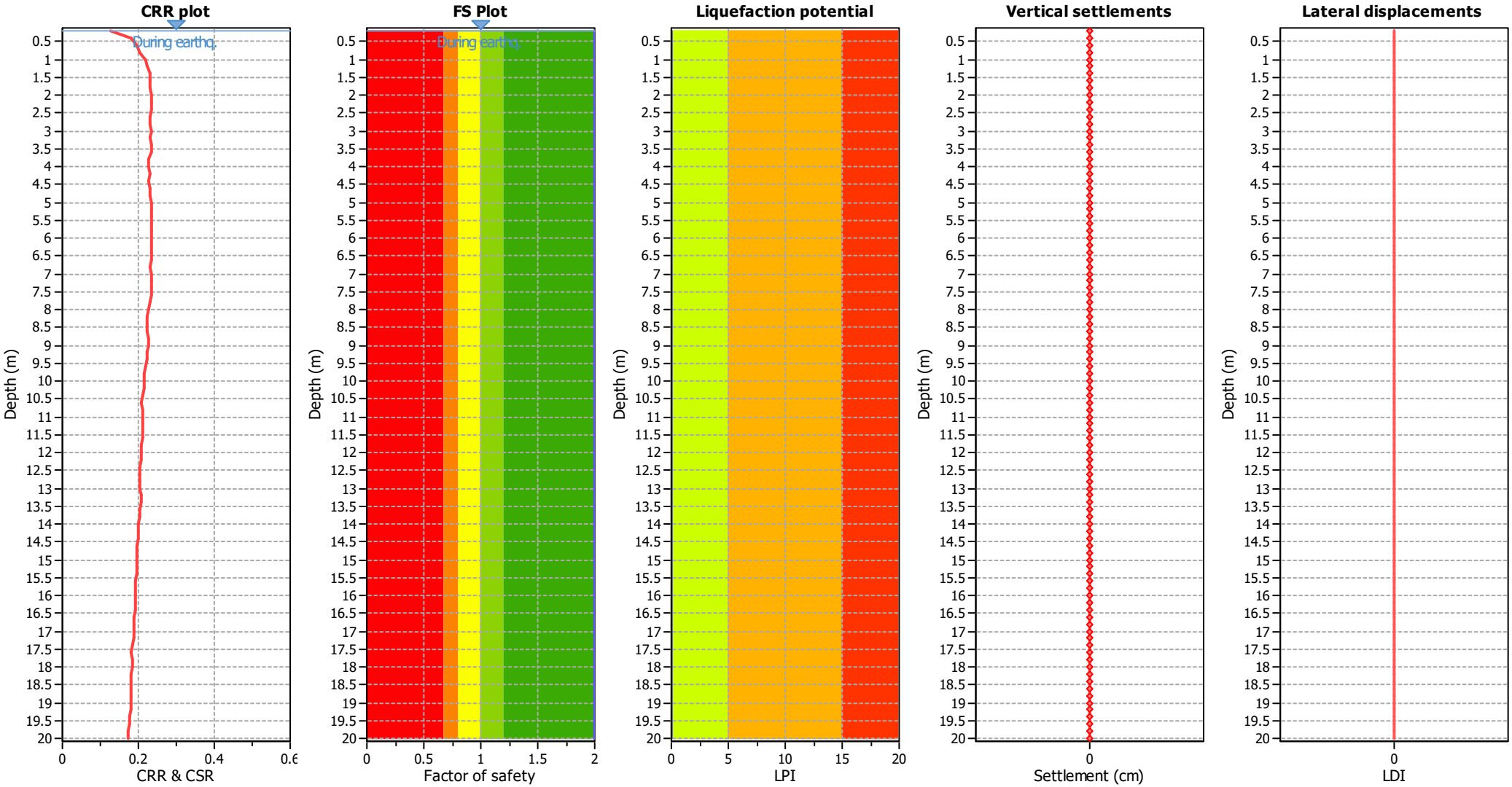






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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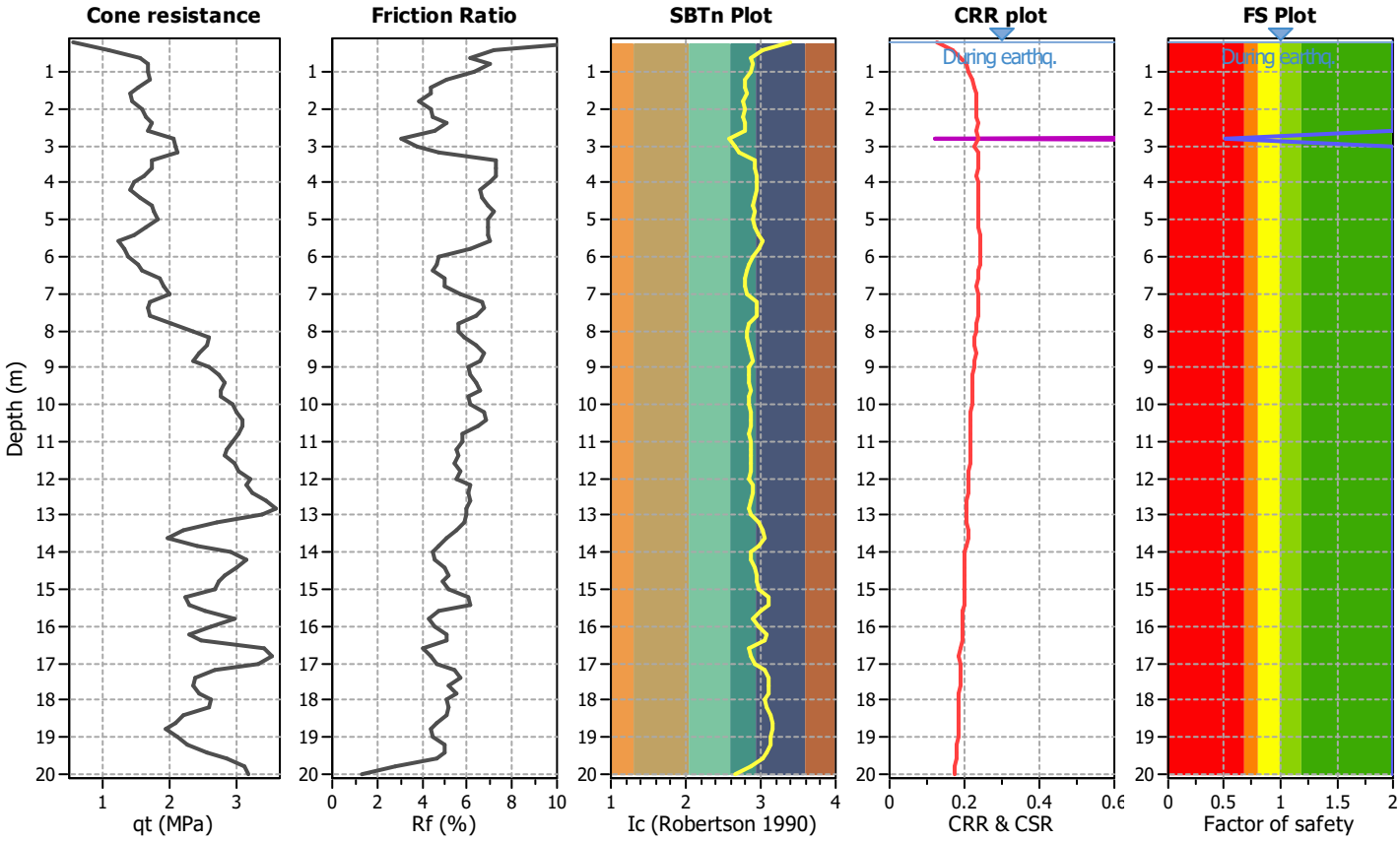
LIQUEFACTION ANALYSIS REPORT

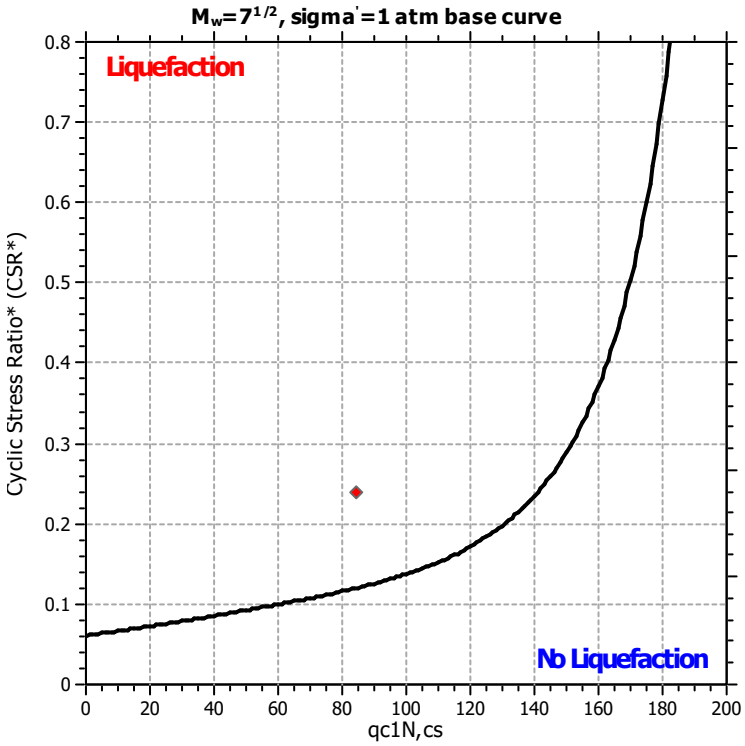
Project title : **Location :**

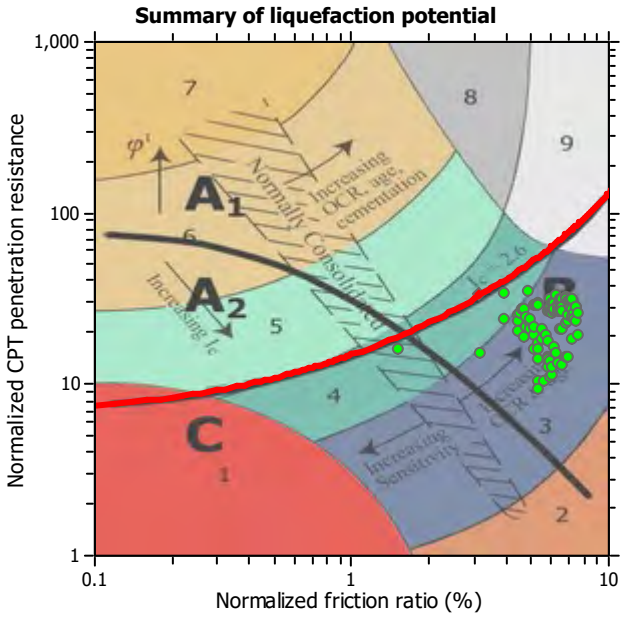
CPT file : SP134

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

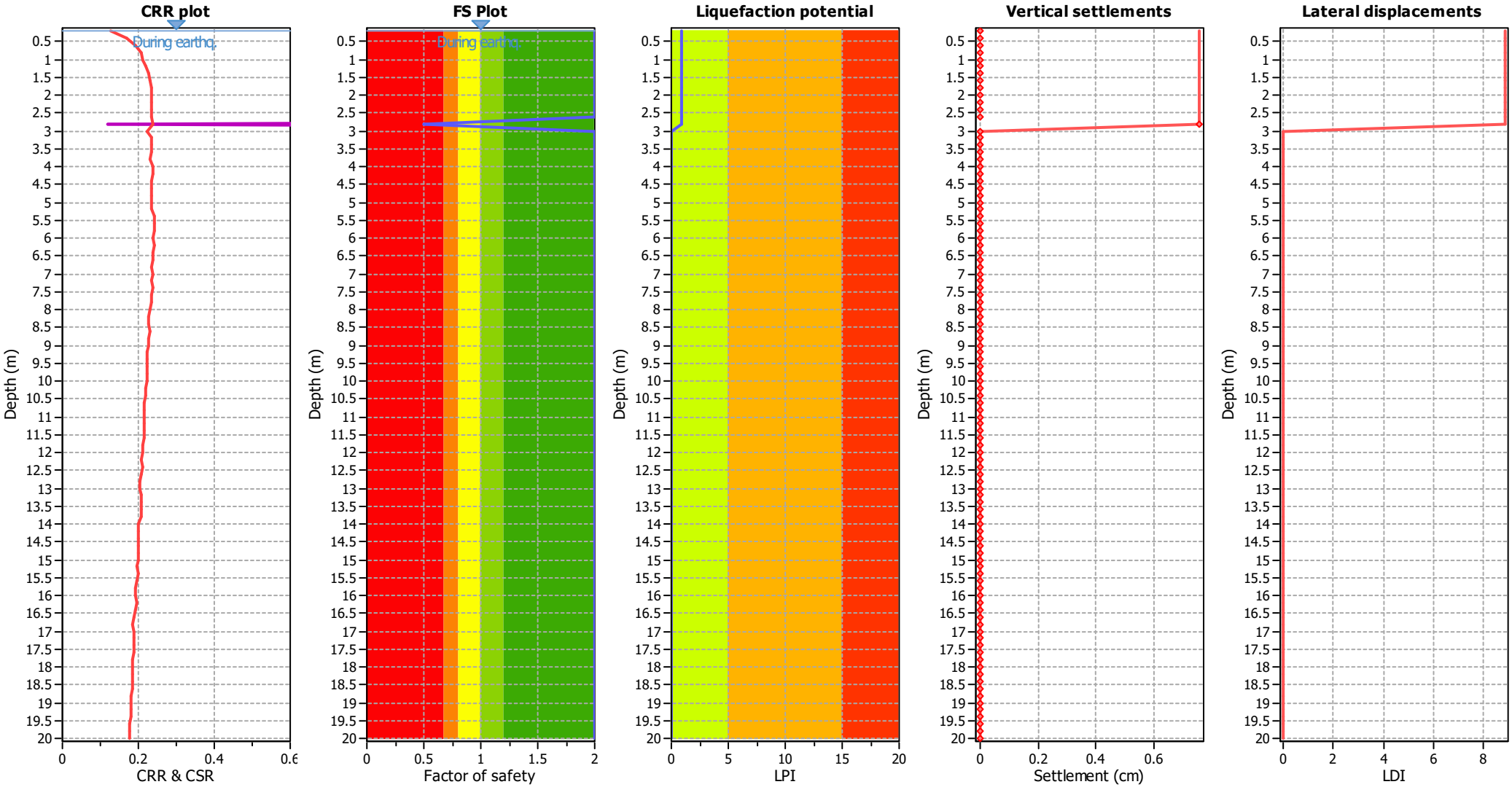






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	0.50	0.50	0.48	0.20	0.85
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.85

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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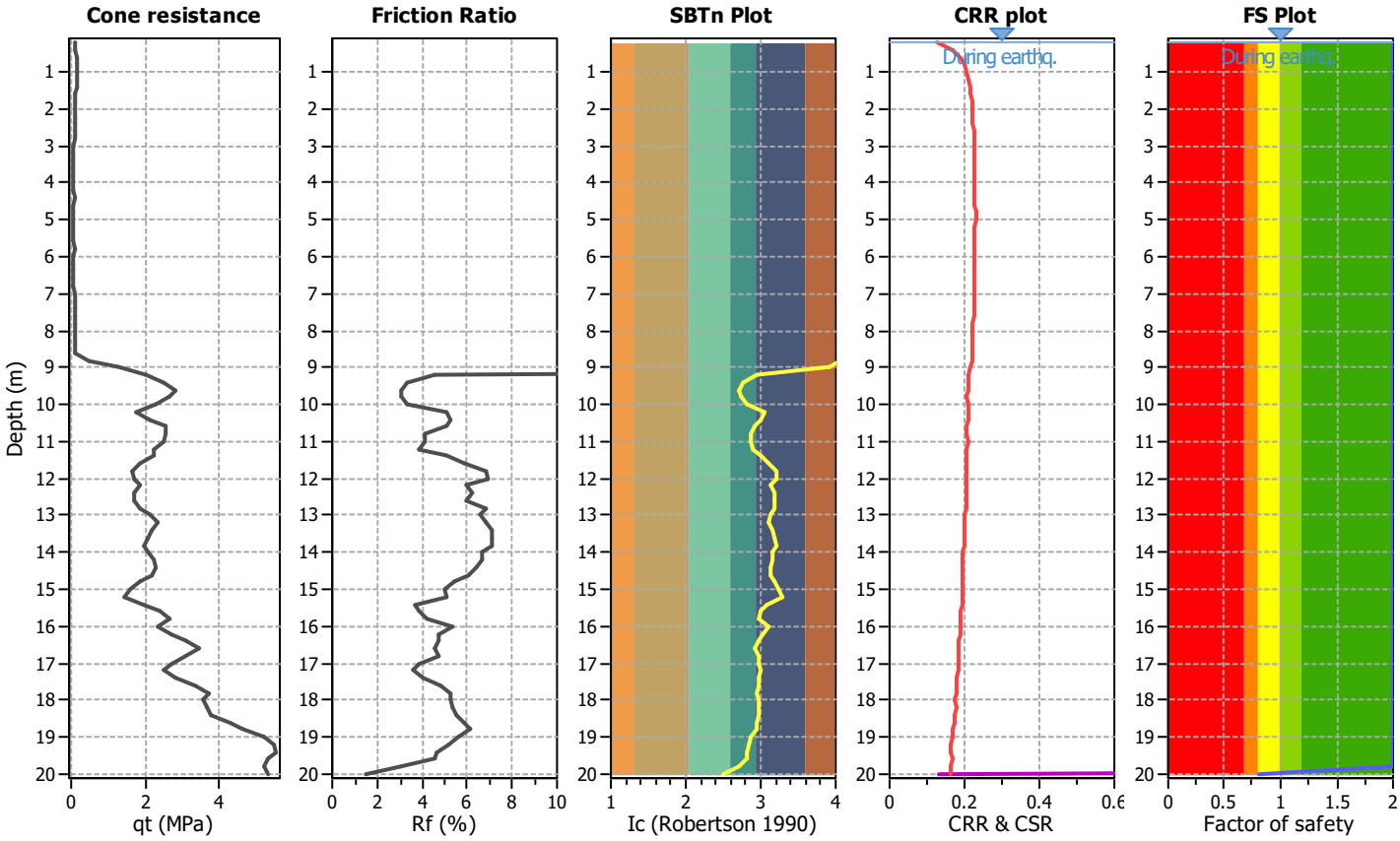
LIQUEFACTION ANALYSIS REPORT

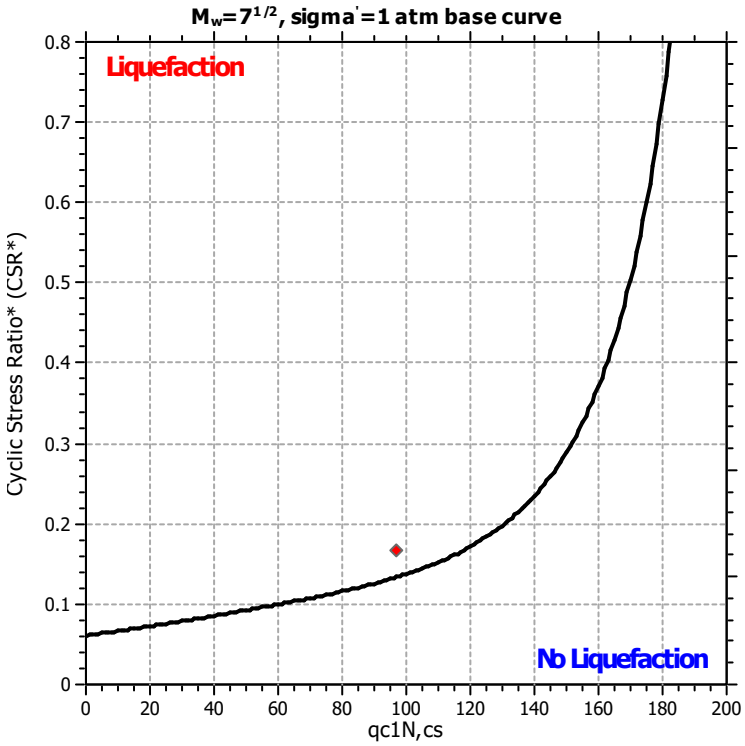
Project title : **Location :**

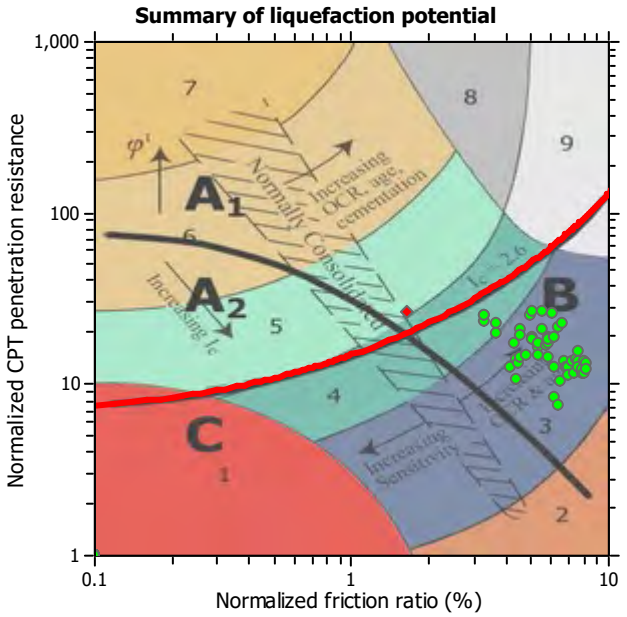
CPT file : SP135

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

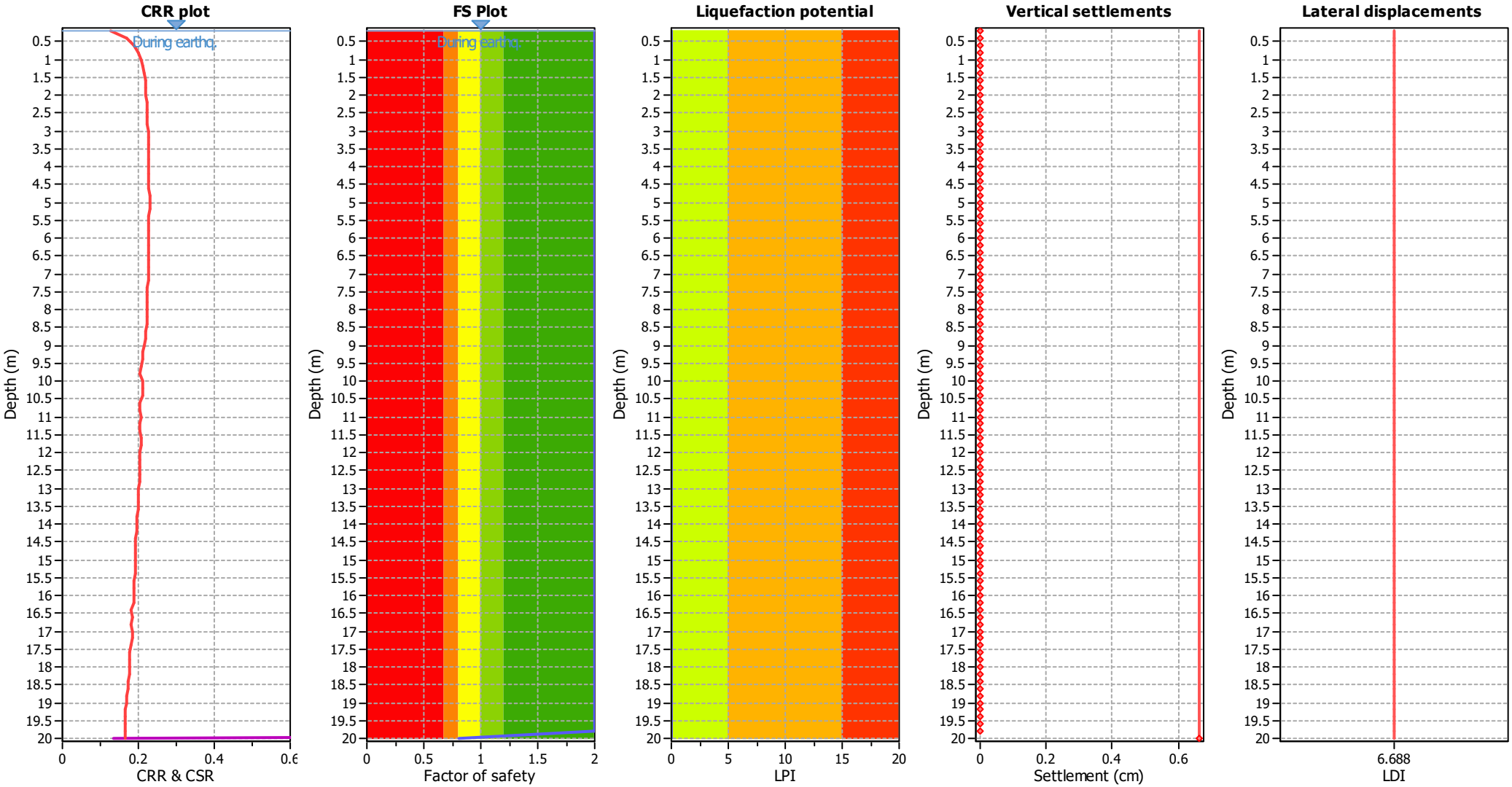






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	0.80	0.20	1.73	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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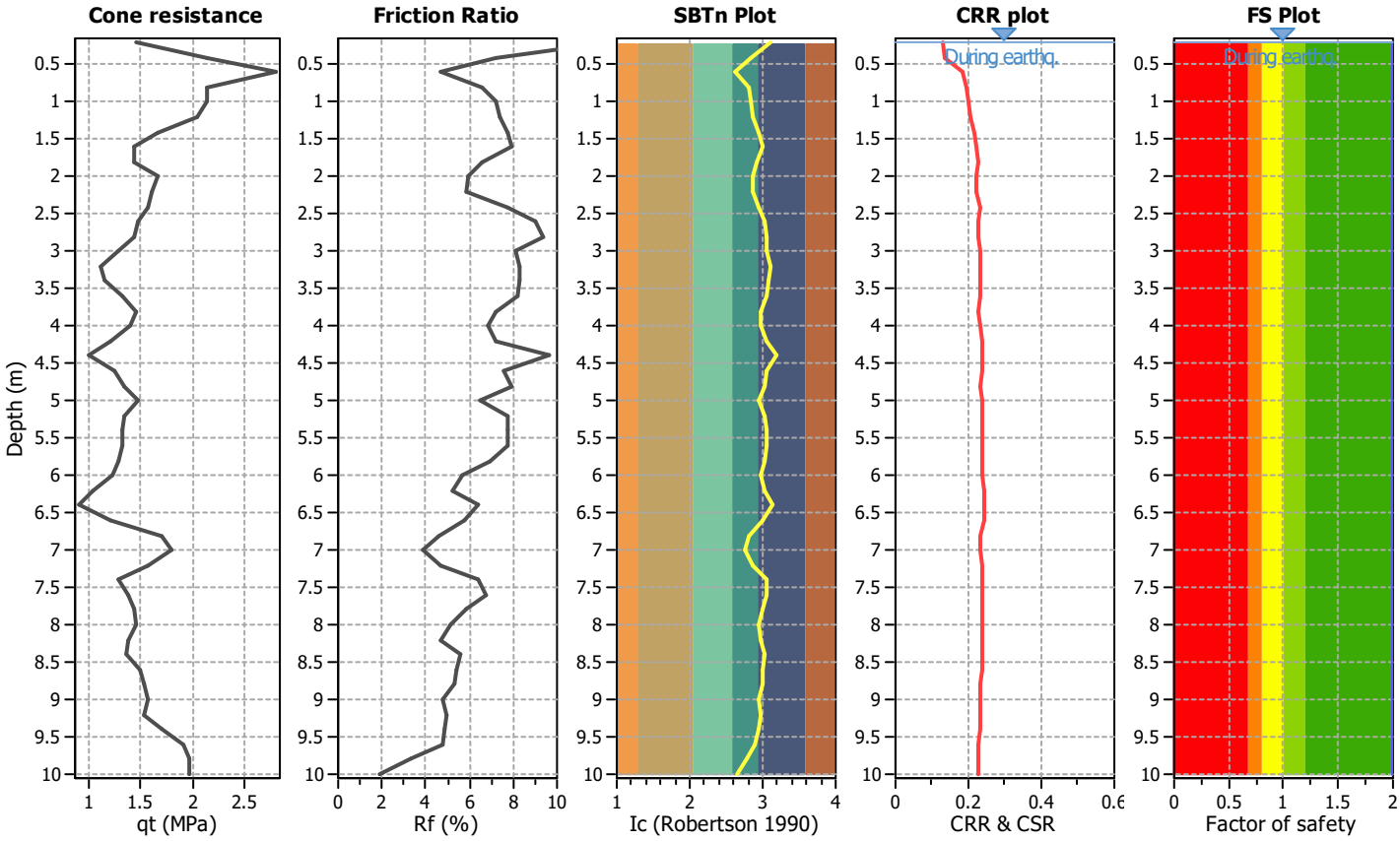
LIQUEFACTION ANALYSIS REPORT

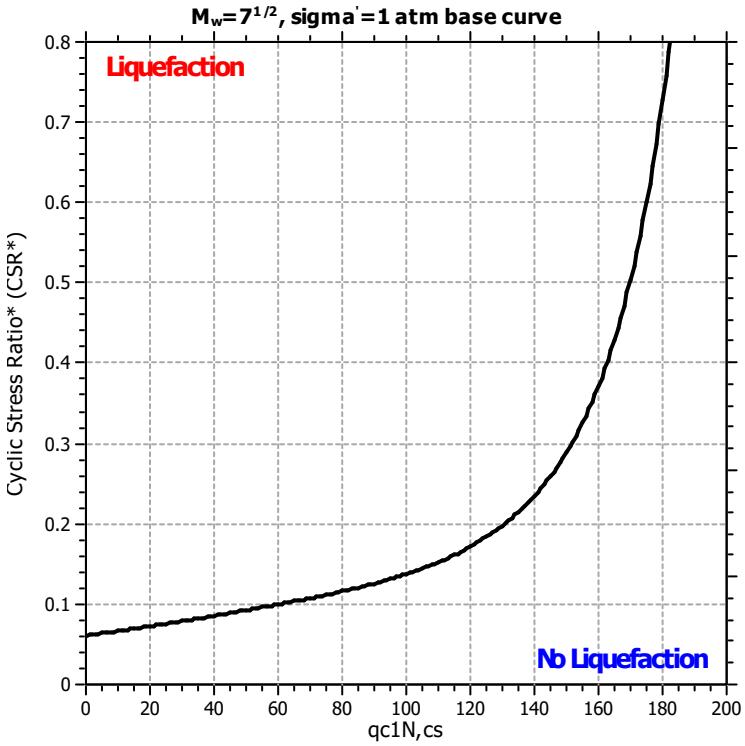
Project title : **Location :**

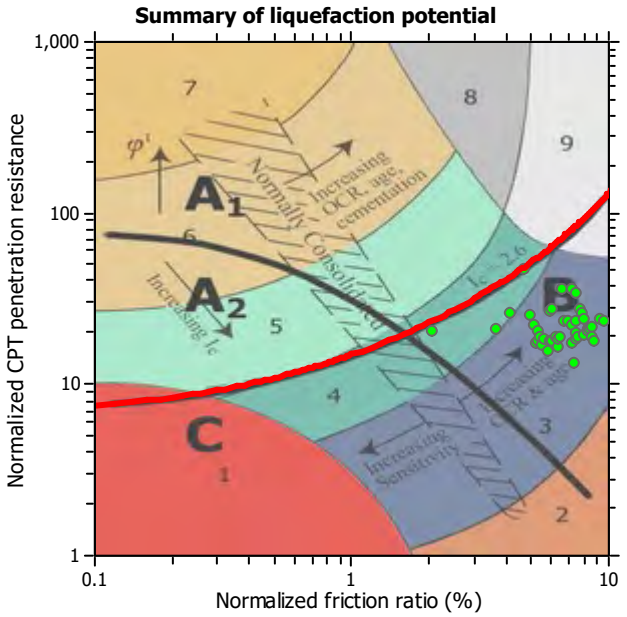
CPT file : SP136

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

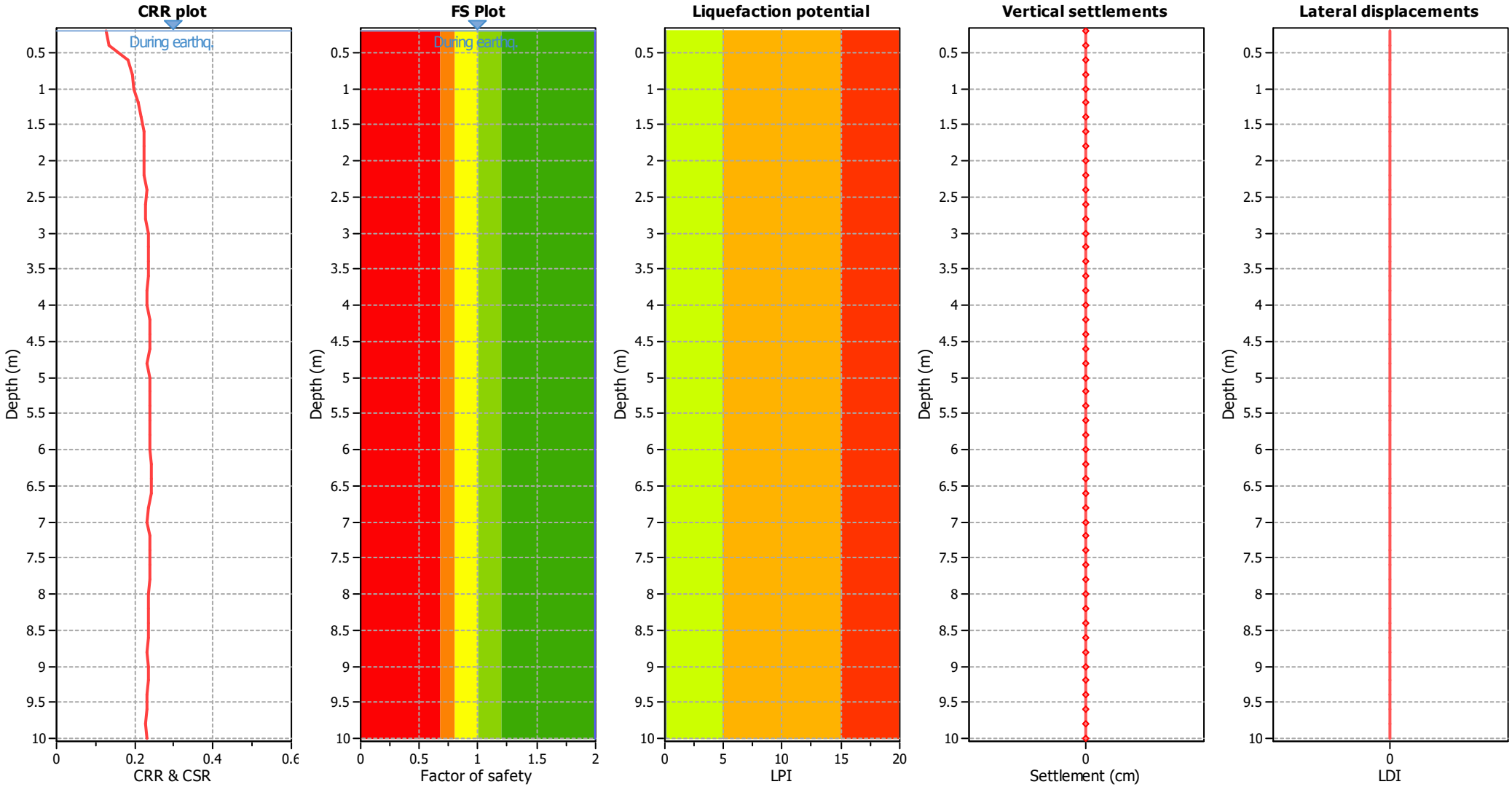






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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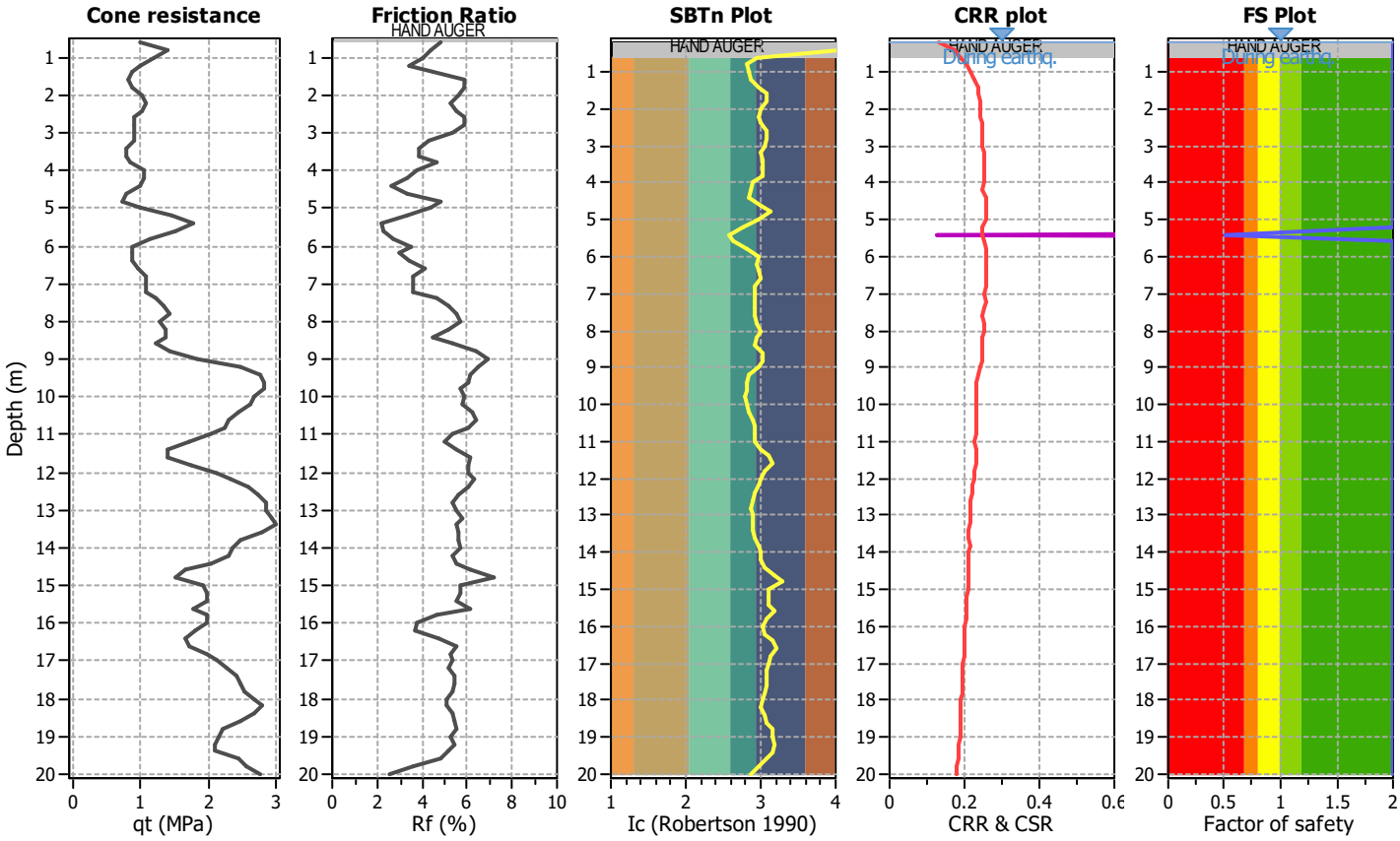
LIQUEFACTION ANALYSIS REPORT

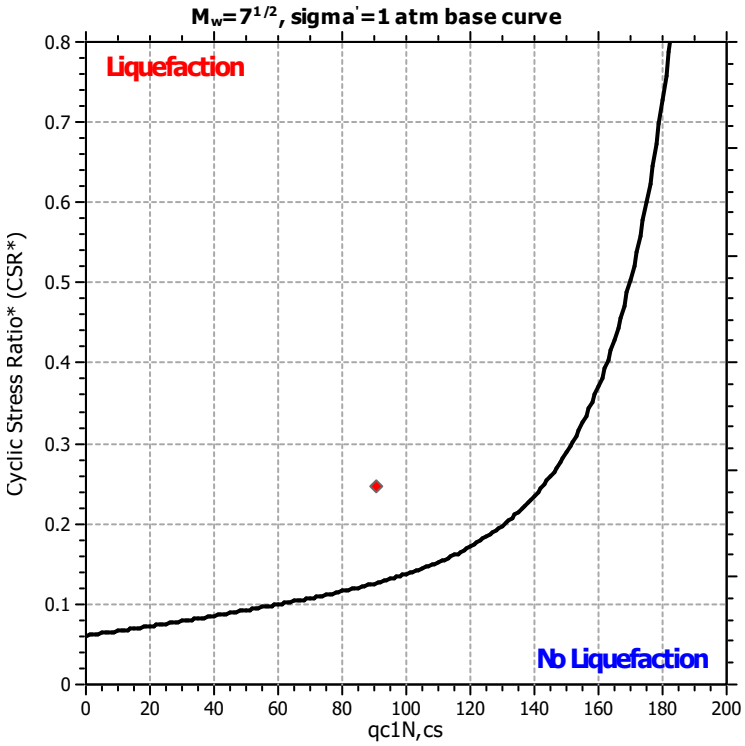
Project title : **Location :**

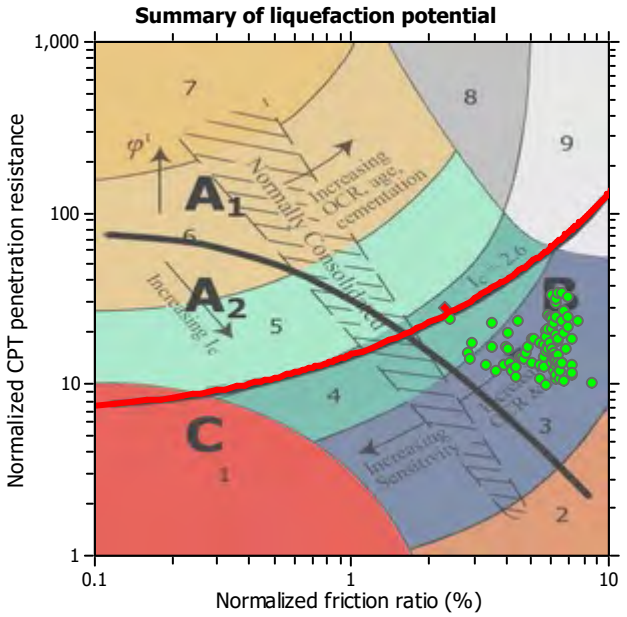
CPT file : SP139

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

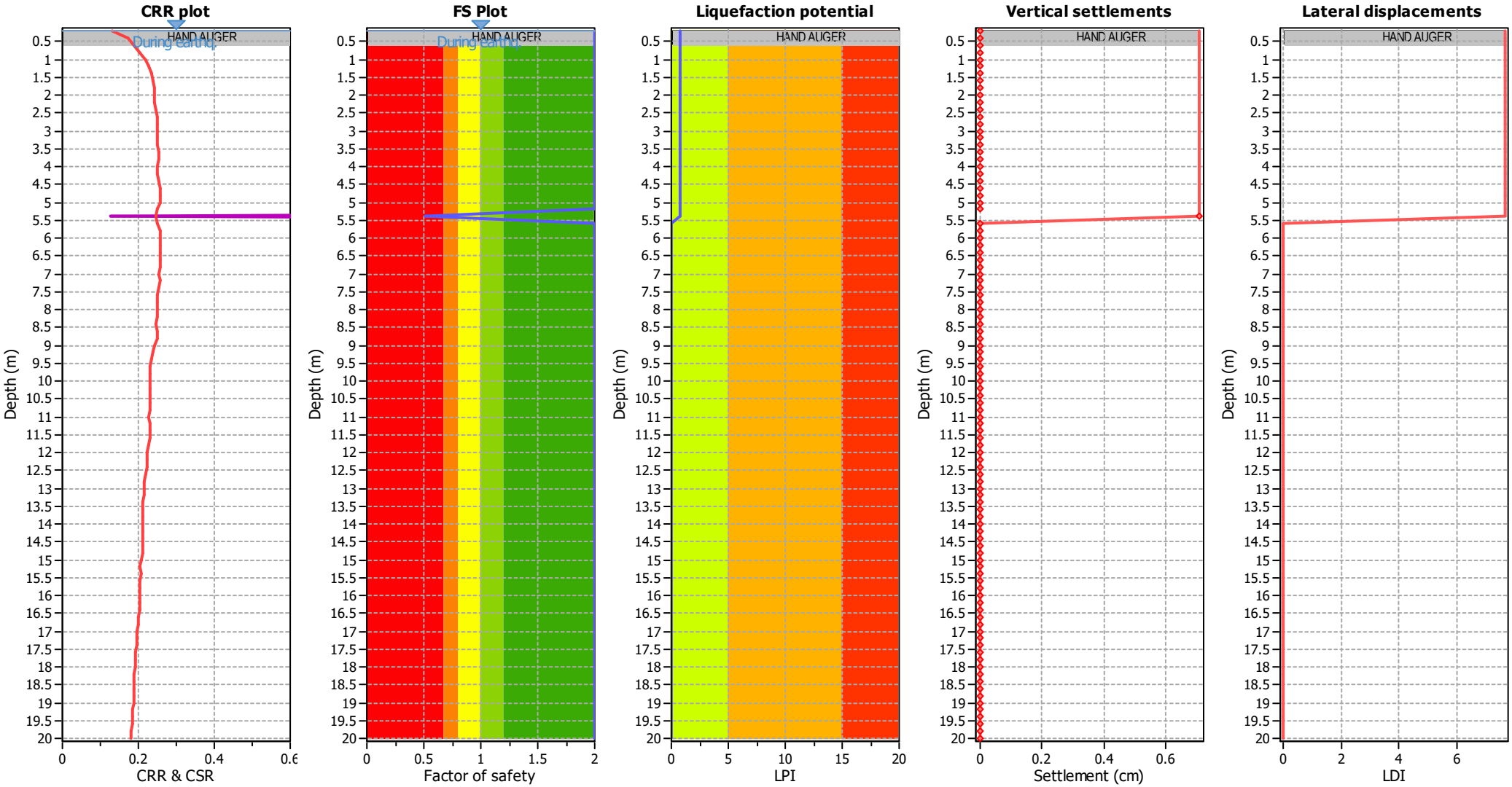






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	0.51	0.49	0.50	0.20	0.71	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.71

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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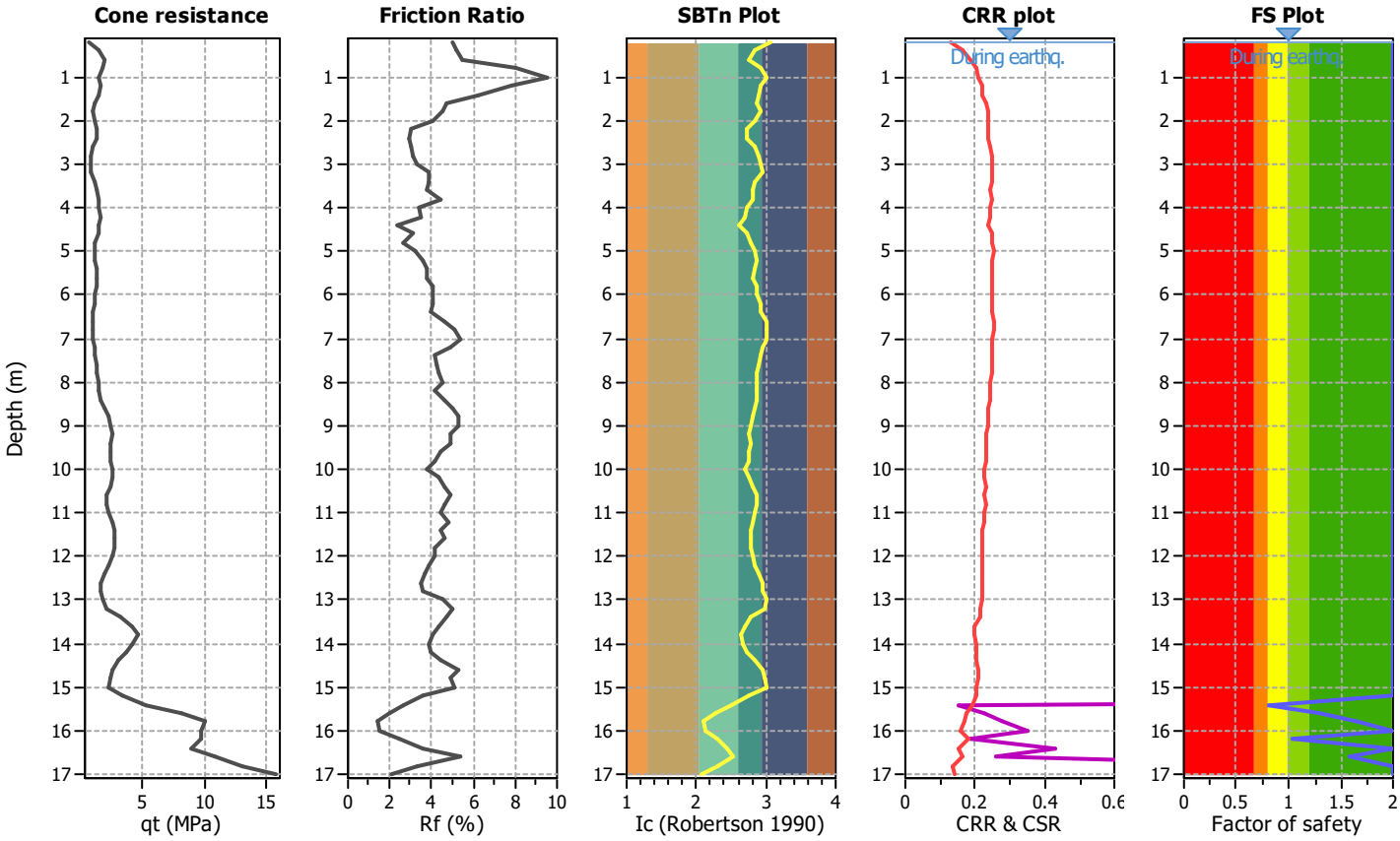
LIQUEFACTION ANALYSIS REPORT

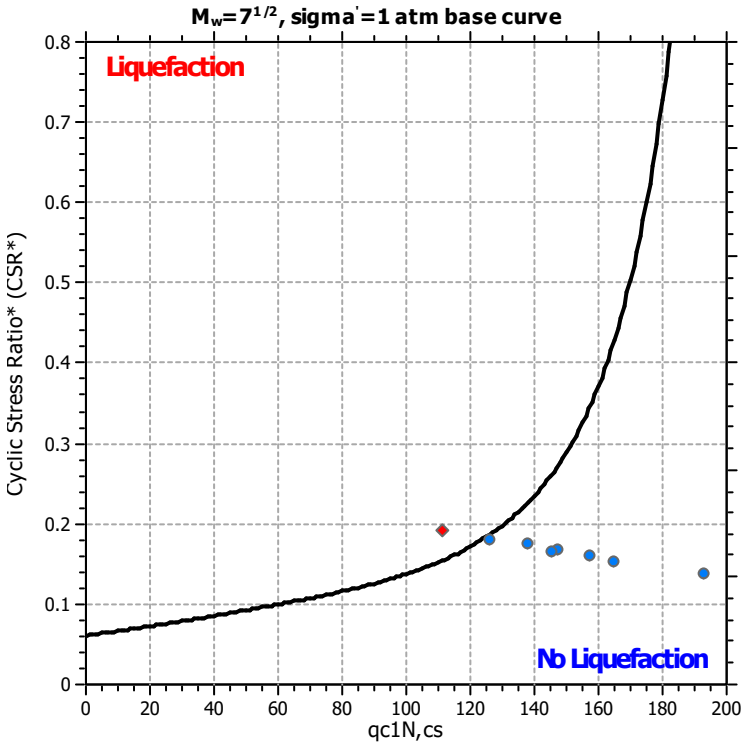
Project title : **Location :**

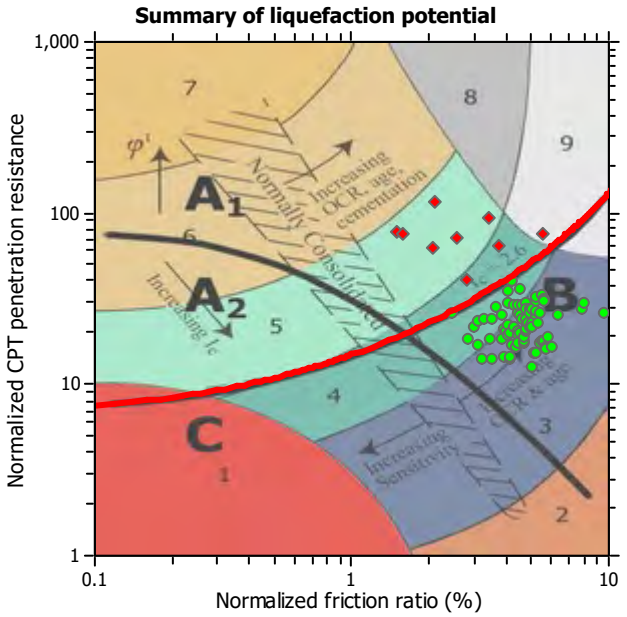
CPT file : SP145

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

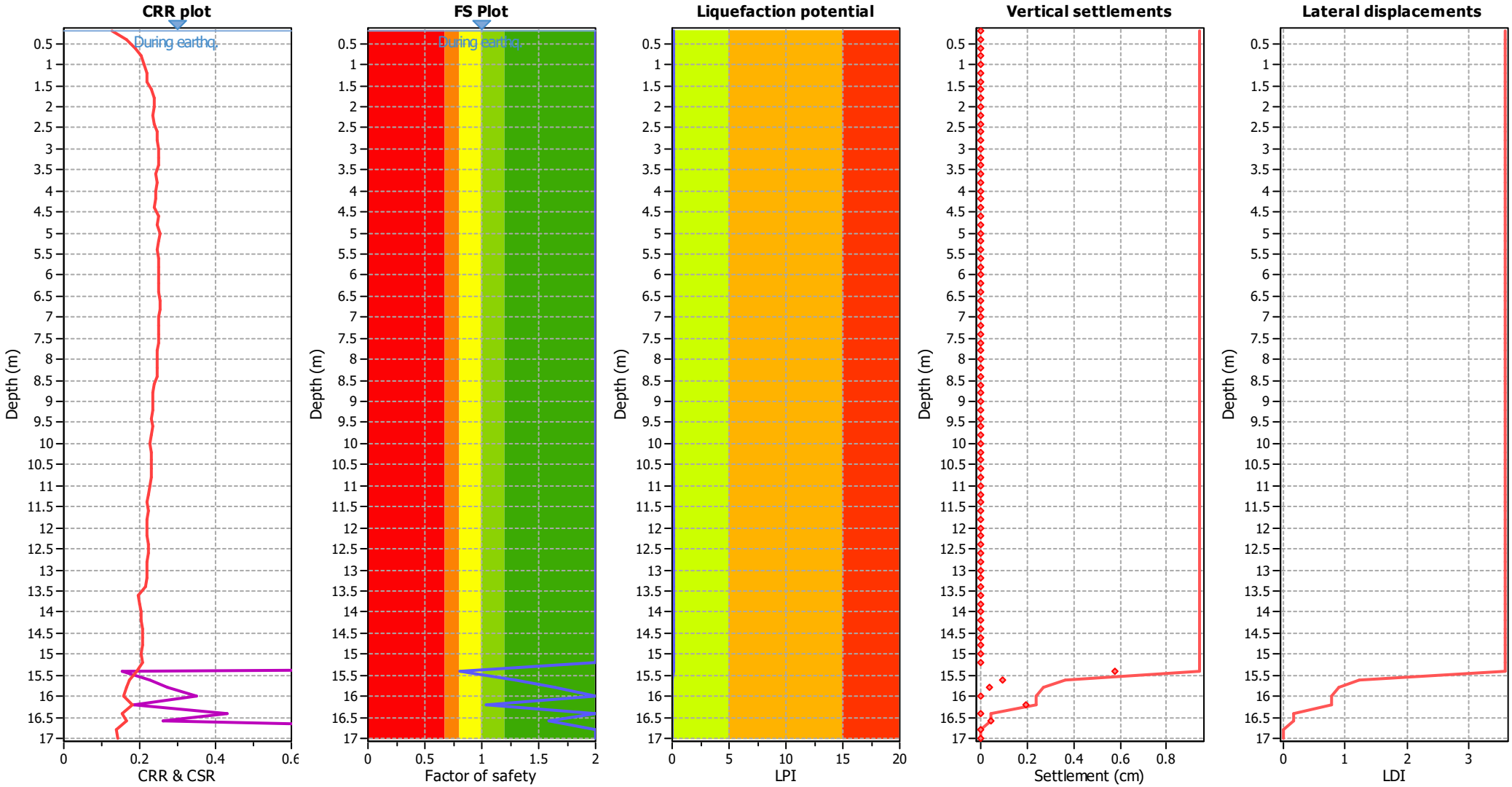






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	0.80	0.20	1.71	0.20	0.09	15.60	1.30	0.00	0.00	0.20	0.00
15.80	1.64	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	1.04	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	1.59	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 0.09

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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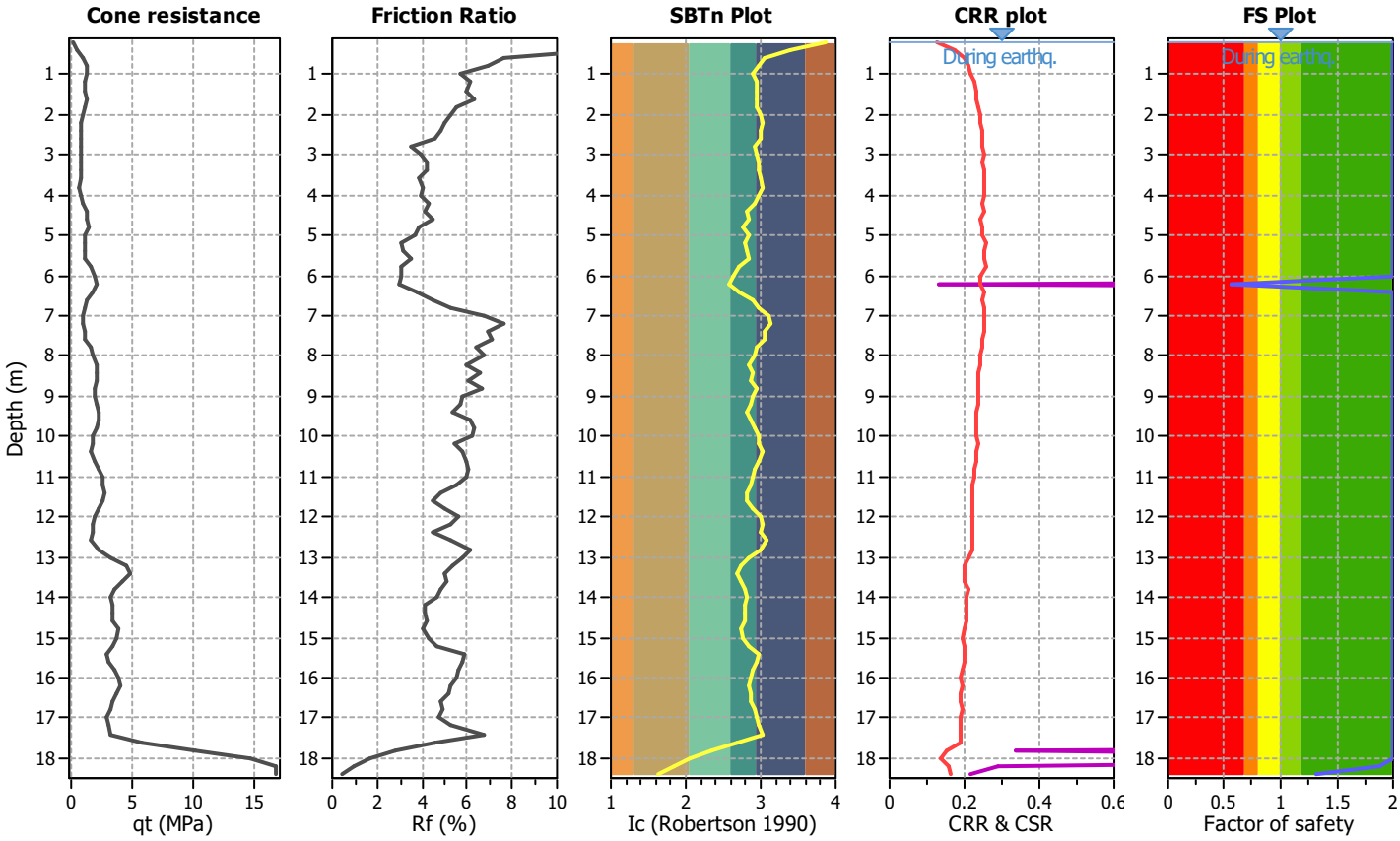
LIQUEFACTION ANALYSIS REPORT

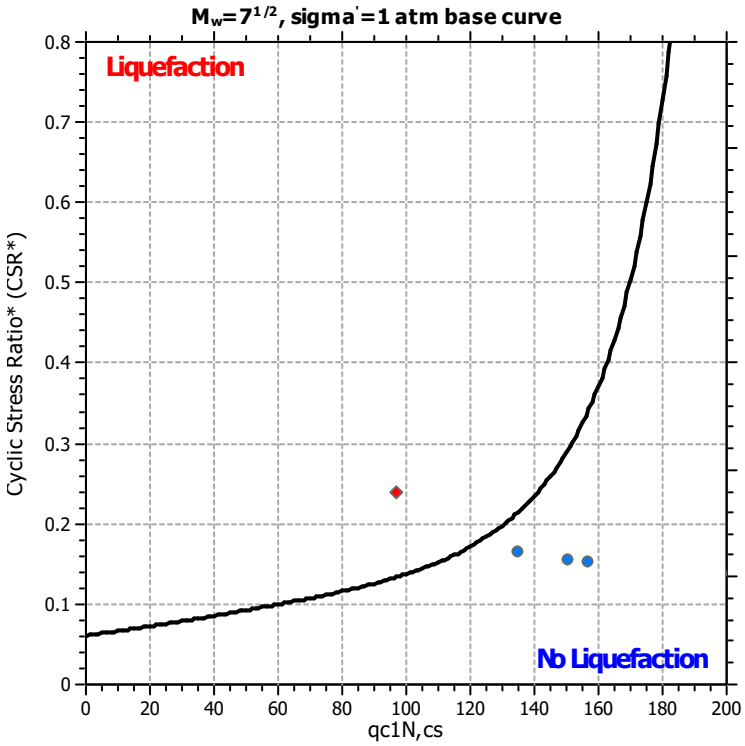
Project title : **Location :**

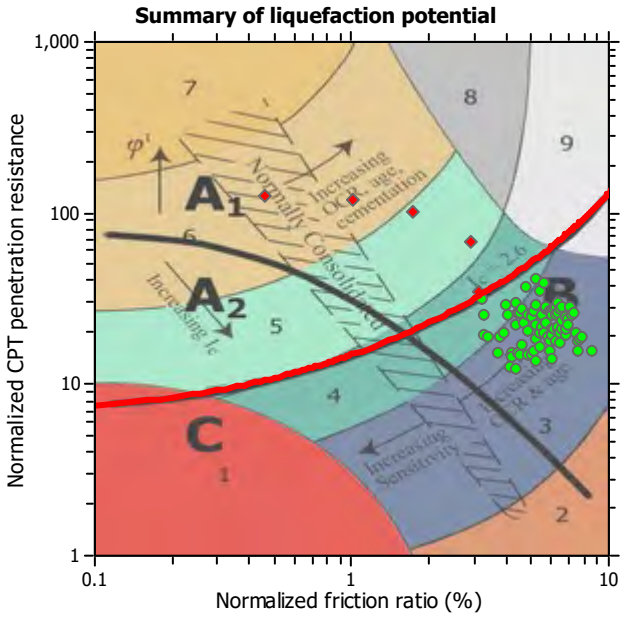
CPT file : SP146

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

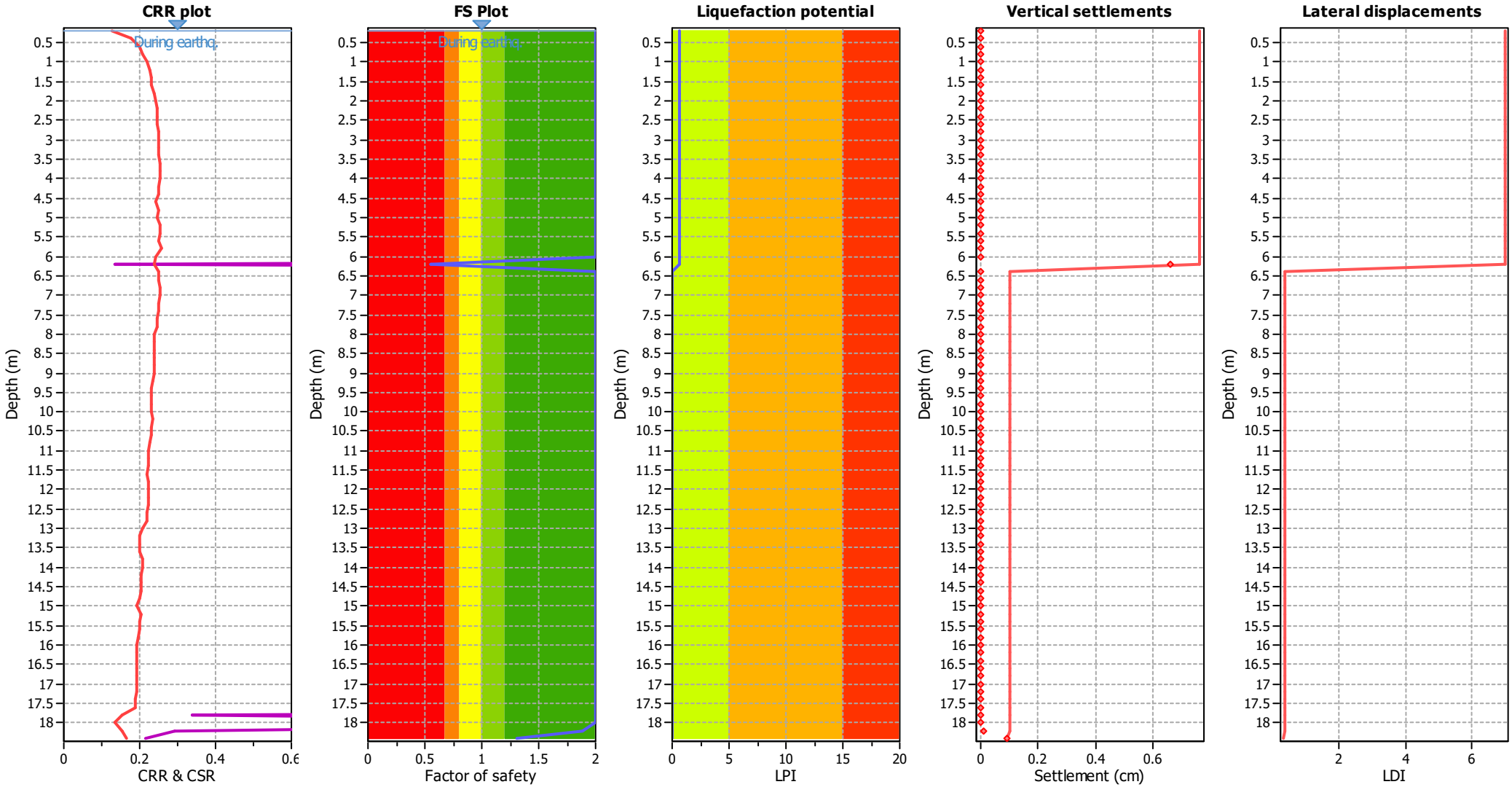






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	0.56	0.44	0.56	0.20	0.61	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	1.88	0.00	0.00	0.20	0.00	18.40	1.31	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 0.61

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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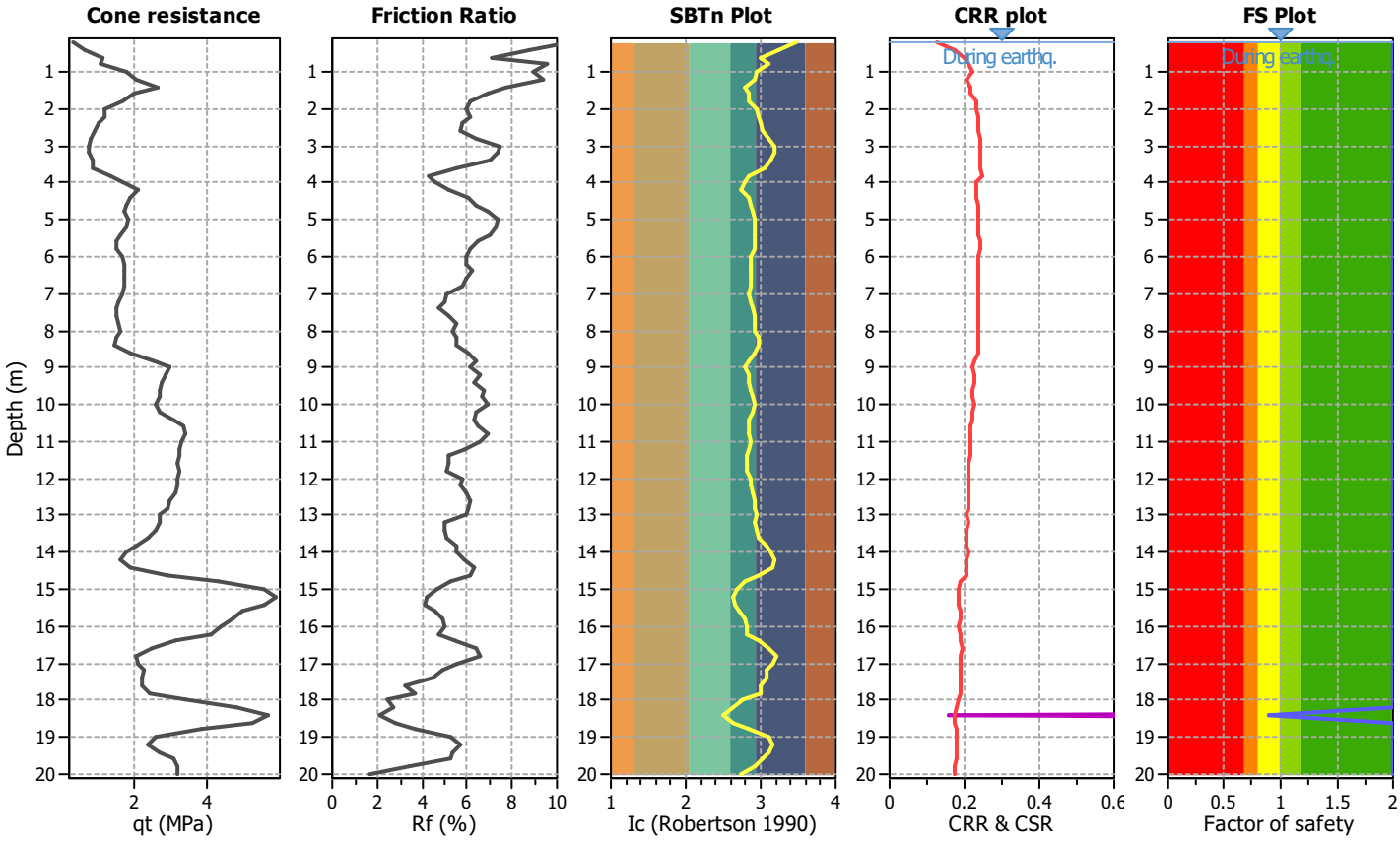
LIQUEFACTION ANALYSIS REPORT

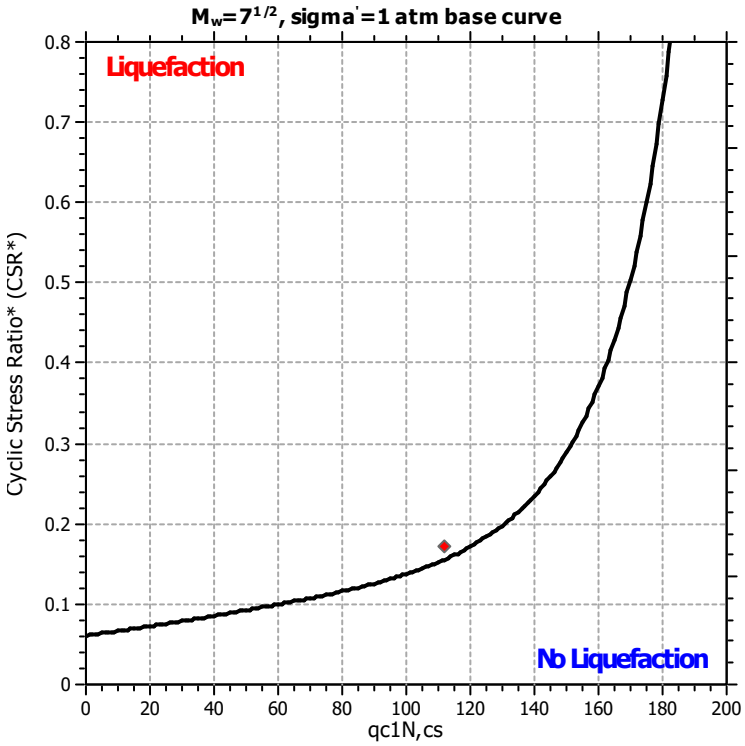
Project title : **Location :**

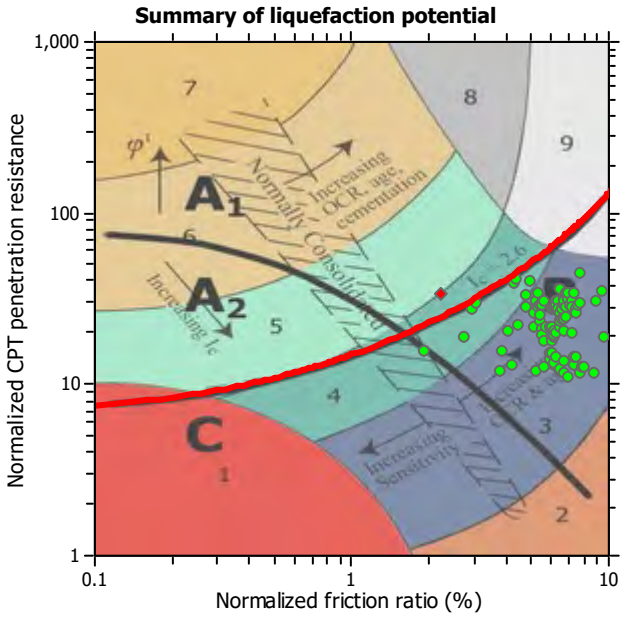
CPT file : SP149

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

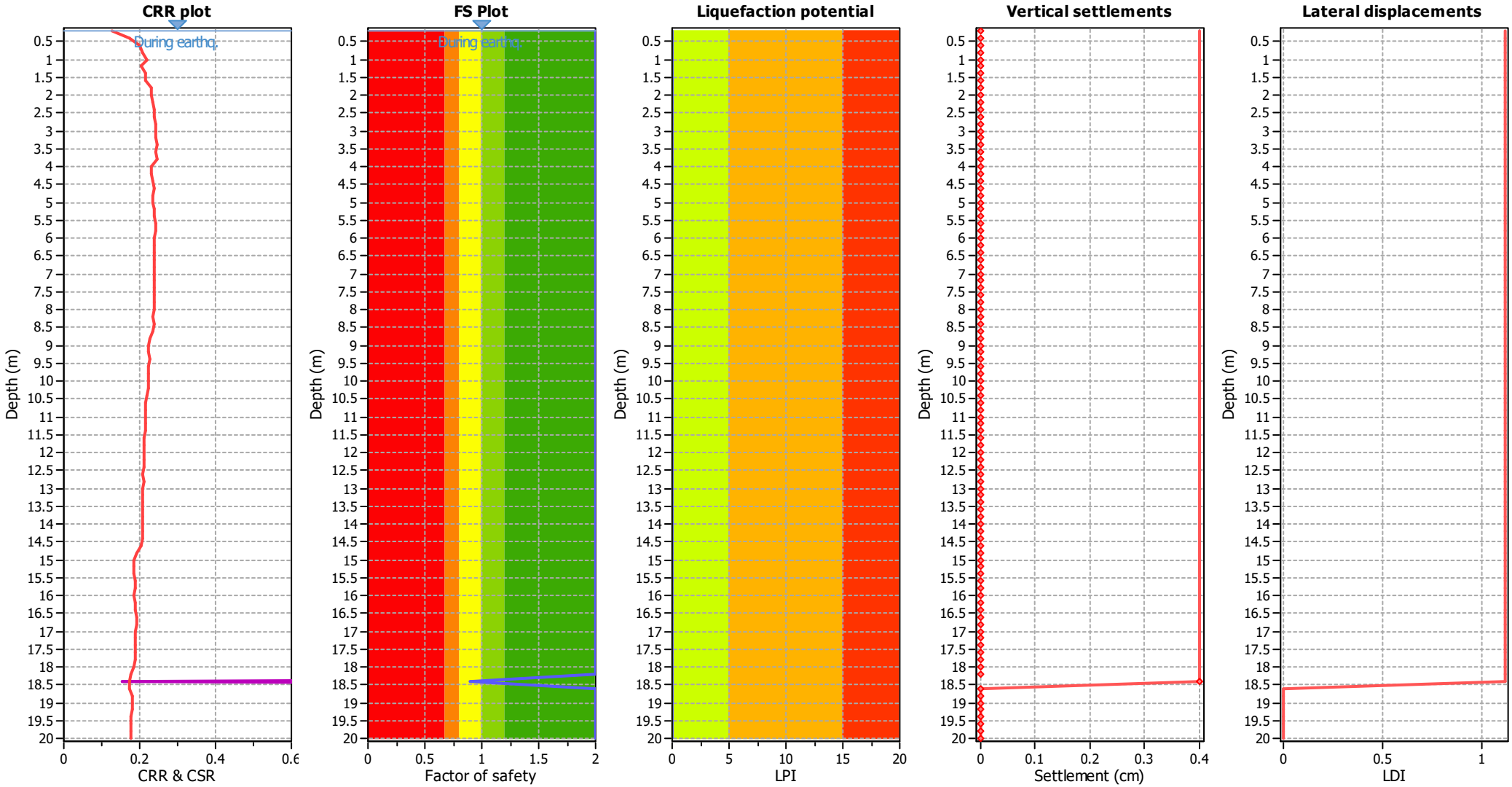






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	0.90	0.10	6.23	0.20	0.02
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.02

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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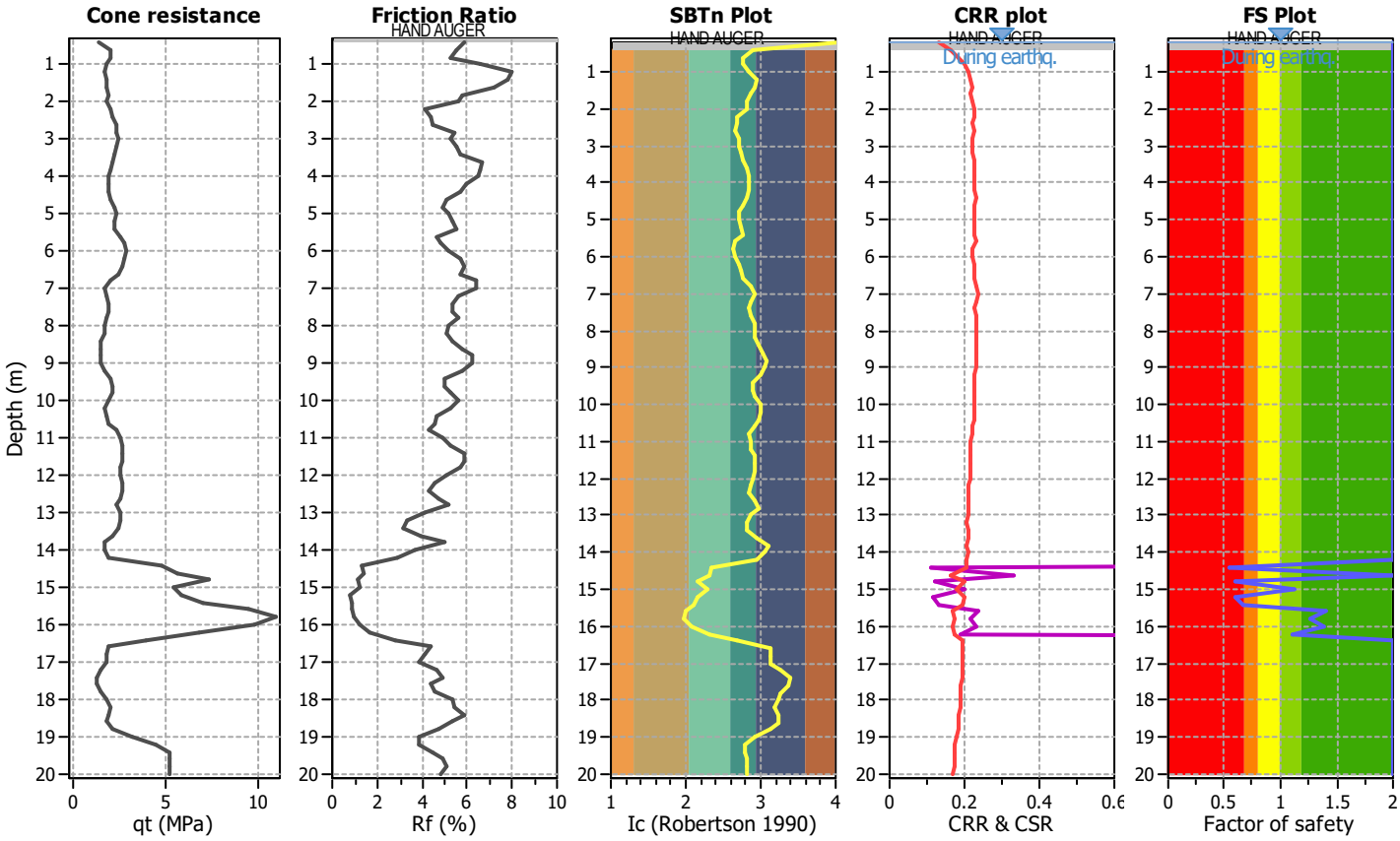
LIQUEFACTION ANALYSIS REPORT

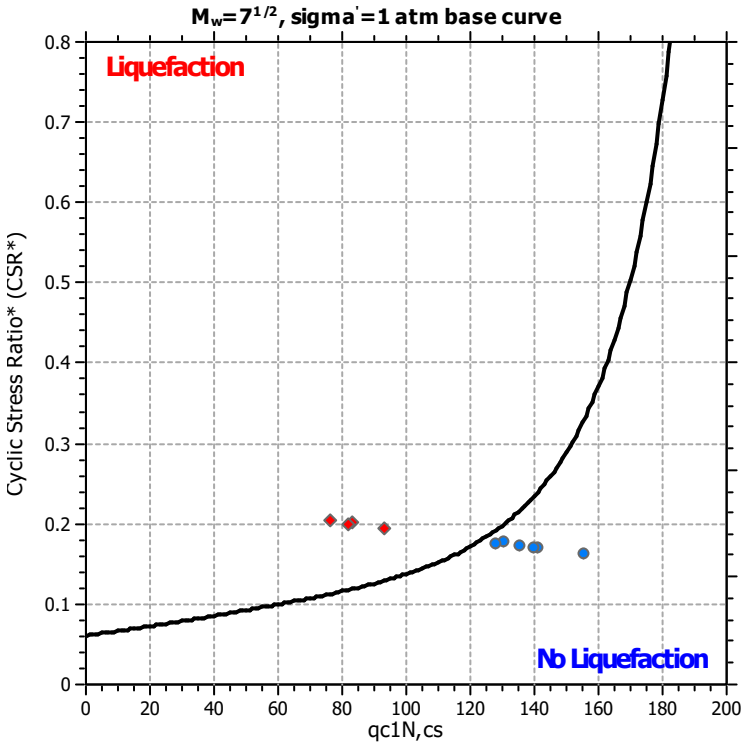
Project title : **Location :**

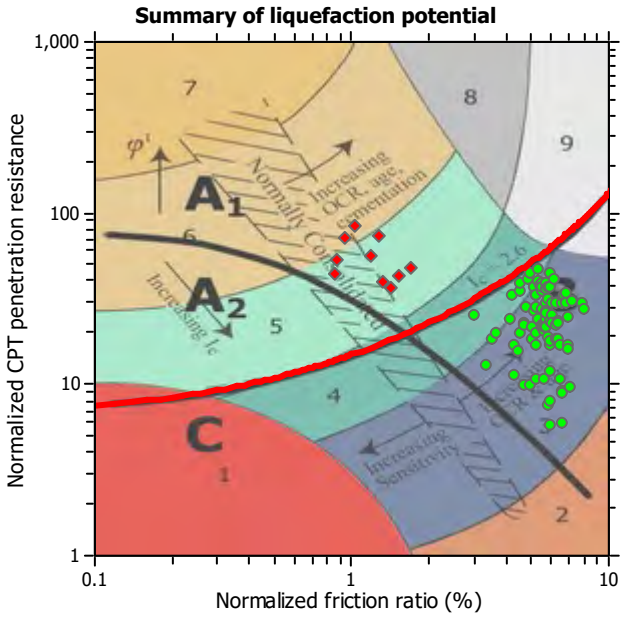
CPT file : SP150

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

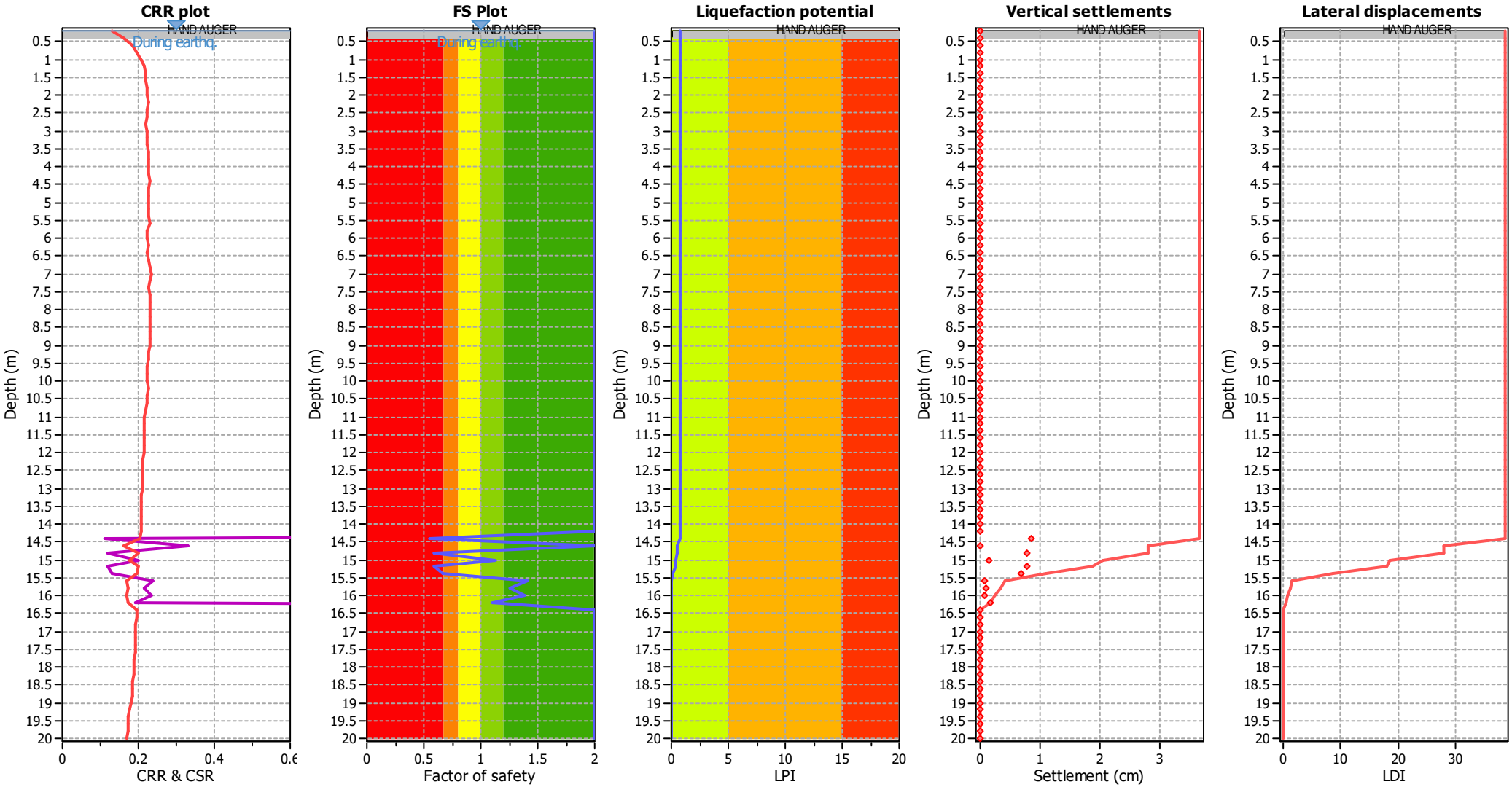






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	0.55	0.45	0.54	0.20	0.25
14.60	2.00	0.00	0.00	0.20	0.00	14.80	0.59	0.41	0.61	0.20	0.21
15.00	1.12	0.00	0.00	0.20	0.00	15.20	0.59	0.41	0.61	0.20	0.20
15.40	0.66	0.34	0.79	0.20	0.15	15.60	1.41	0.00	0.00	0.20	0.00
15.80	1.25	0.00	0.00	0.20	0.00	16.00	1.39	0.00	0.00	0.20	0.00
16.20	1.10	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.82

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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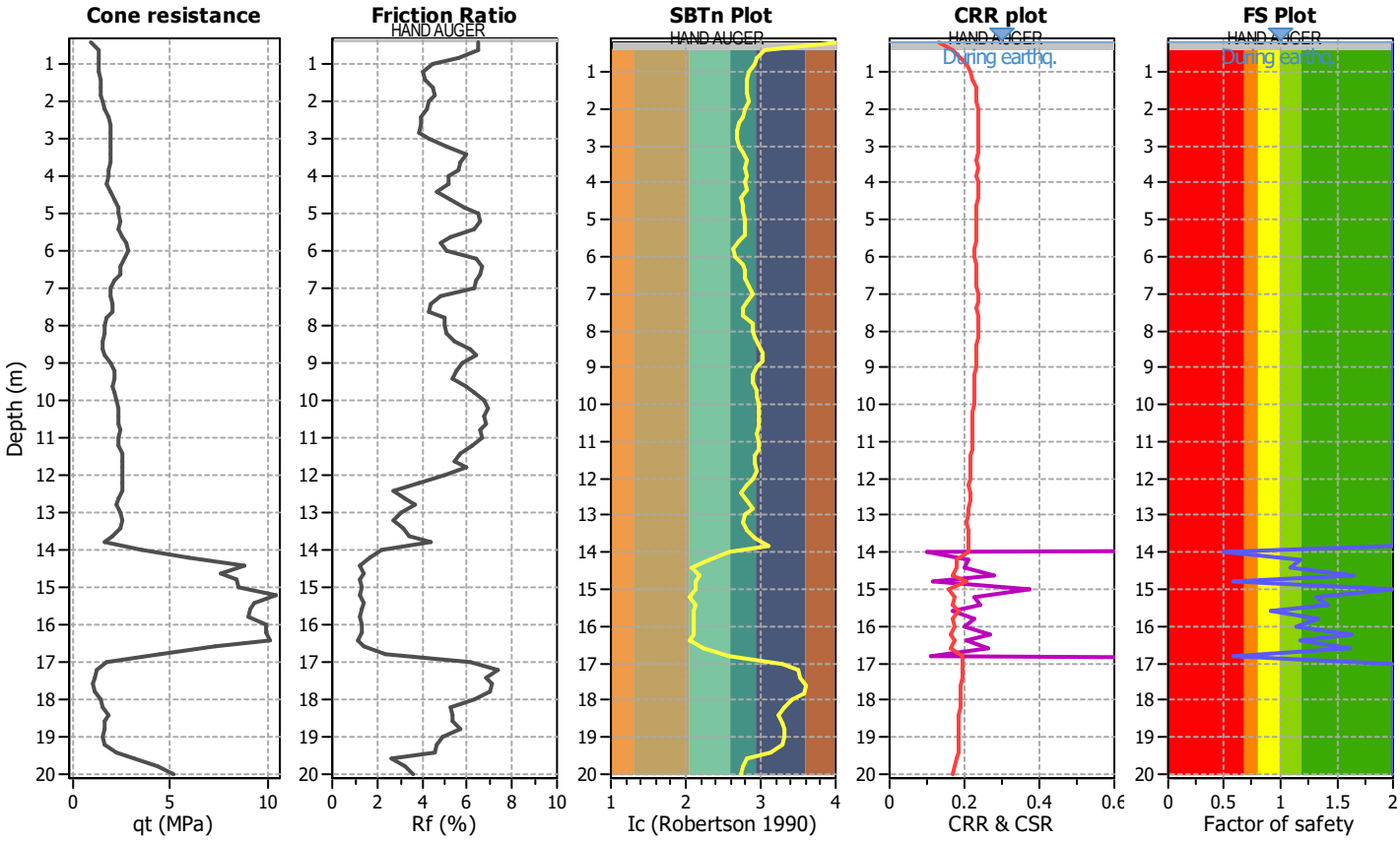
LIQUEFACTION ANALYSIS REPORT

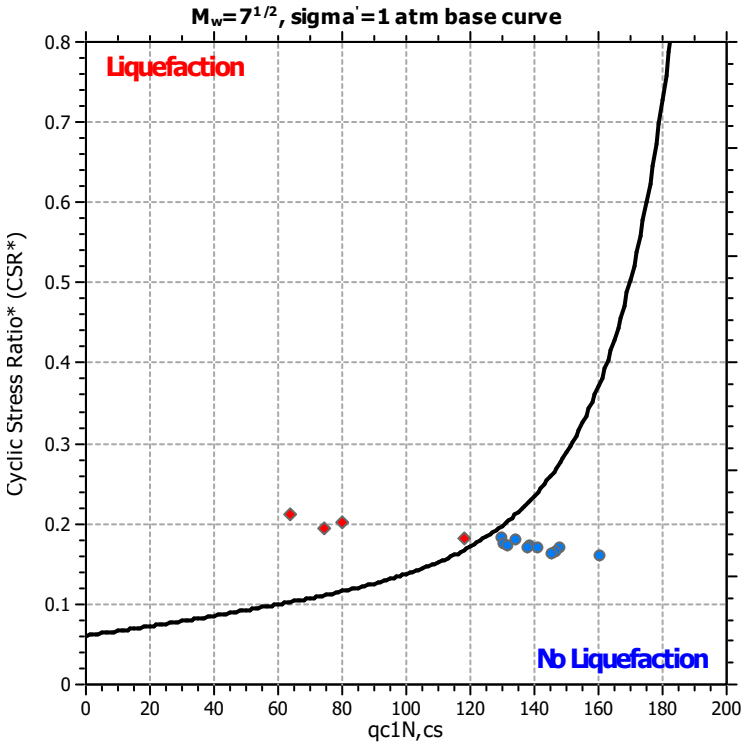
Project title : **Location :**

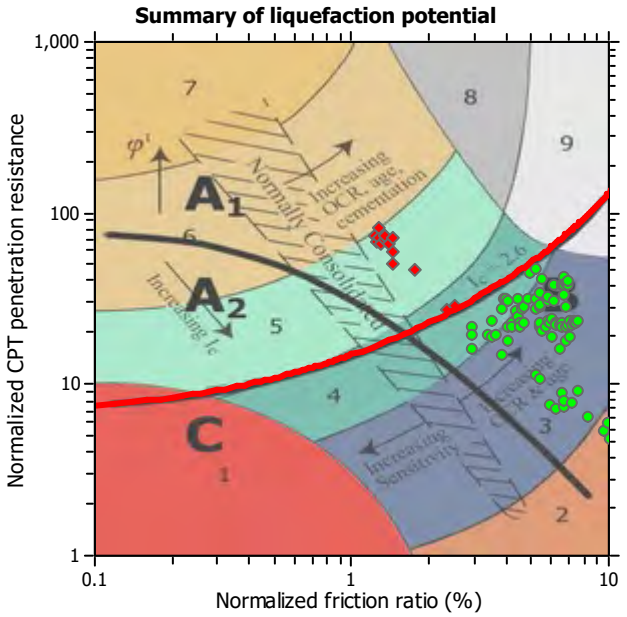
CPT file : SP151

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

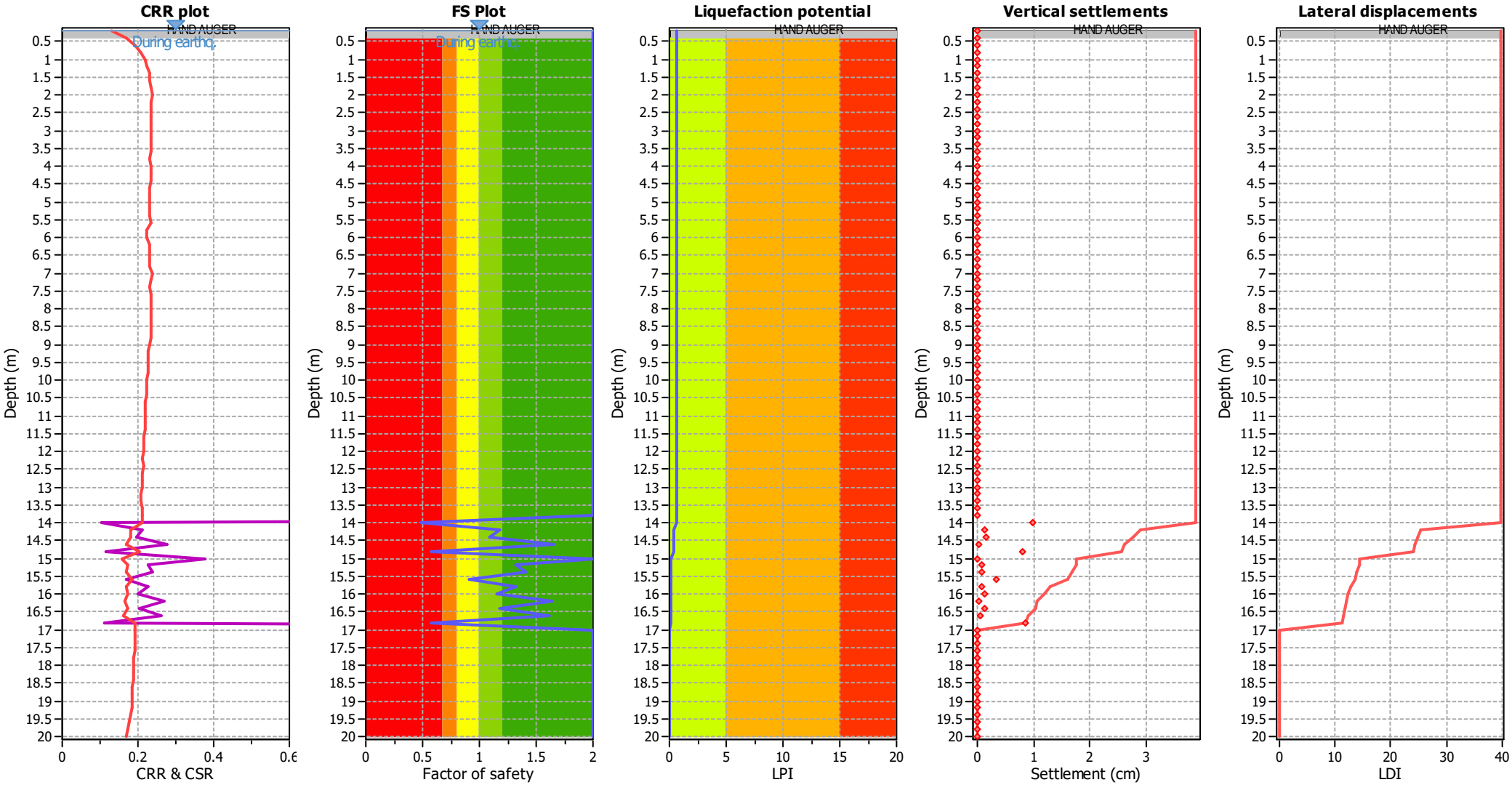






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	0.49	0.51	0.46	0.20	0.31
14.20	1.18	0.00	0.00	0.20	0.00	14.40	1.09	0.00	0.00	0.20	0.00
14.60	1.65	0.00	0.00	0.20	0.00	14.80	0.57	0.43	0.58	0.20	0.22
15.00	2.00	0.00	0.00	0.20	0.00	15.20	1.32	0.00	0.00	0.20	0.00
15.40	1.41	0.00	0.00	0.20	0.00	15.60	0.92	0.08	9.06	0.20	0.04
15.80	1.33	0.00	0.00	0.20	0.00	16.00	1.15	0.00	0.00	0.20	0.00
16.20	1.64	0.00	0.00	0.20	0.00	16.40	1.18	0.00	0.00	0.20	0.00
16.60	1.61	0.00	0.00	0.20	0.00	16.80	0.58	0.42	0.58	0.20	0.14
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.70

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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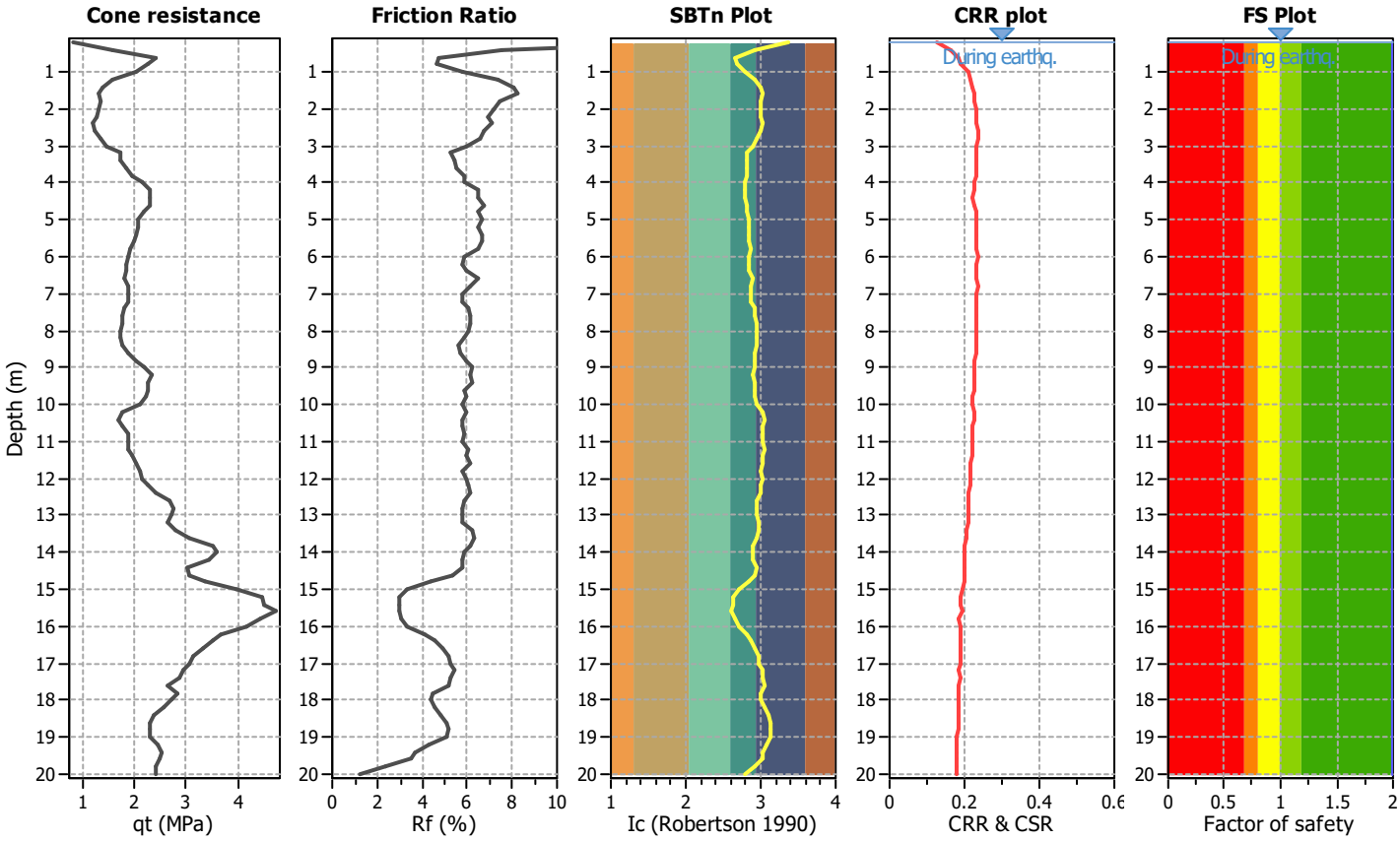
LIQUEFACTION ANALYSIS REPORT

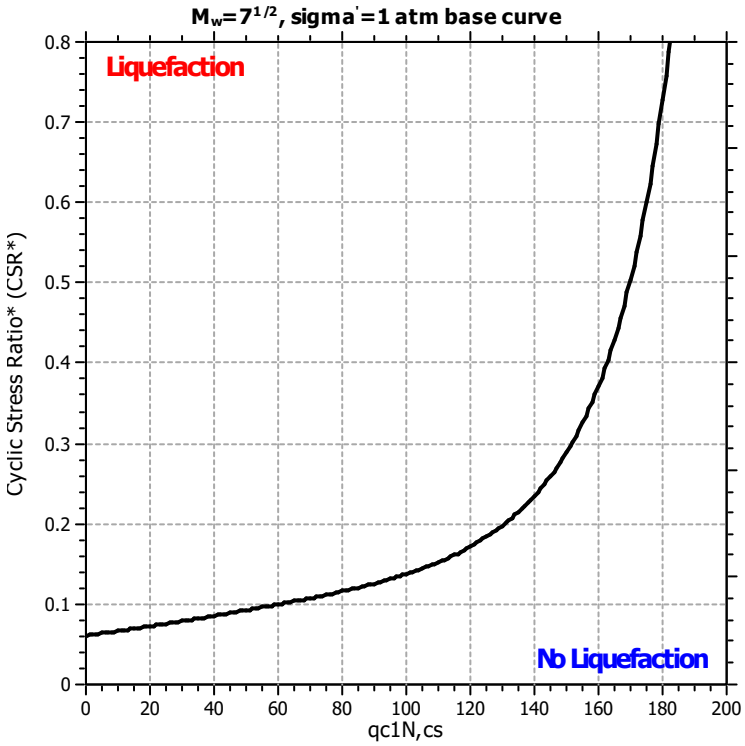
Project title : **Location :**

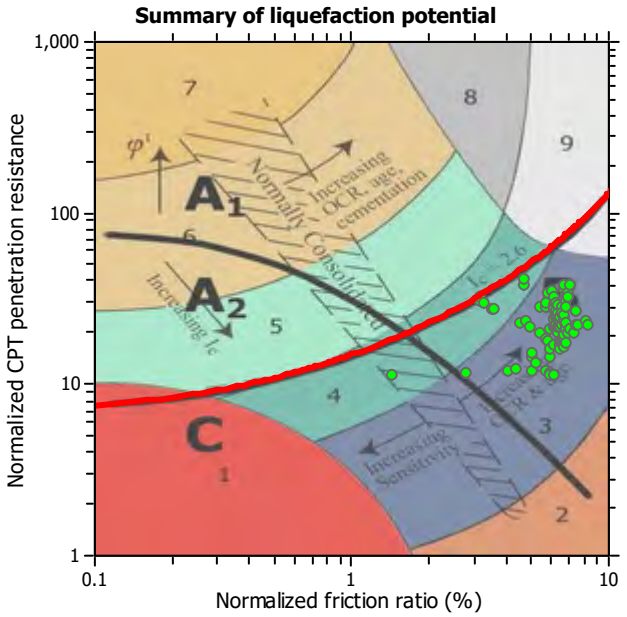
CPT file : SP154

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

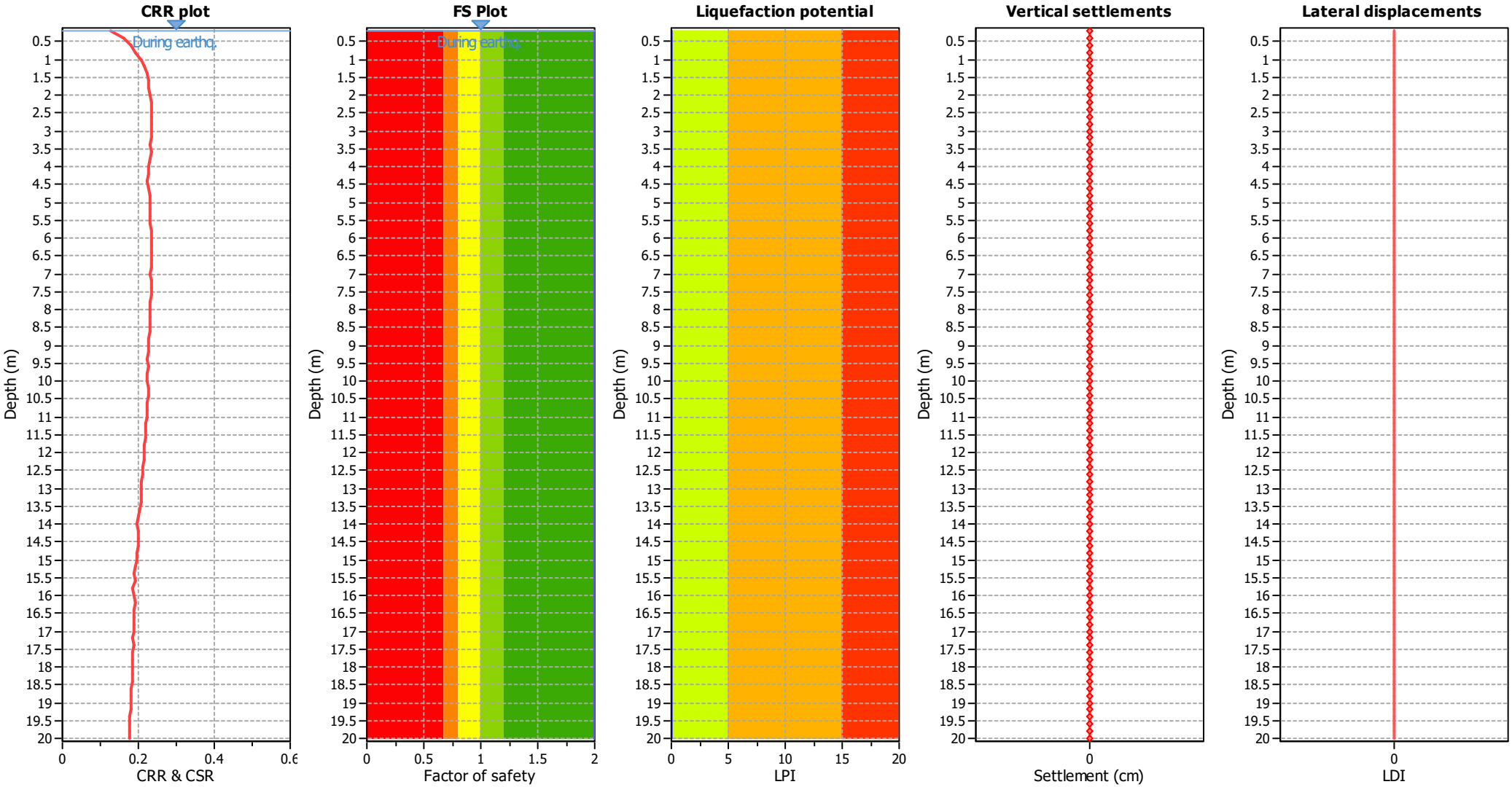






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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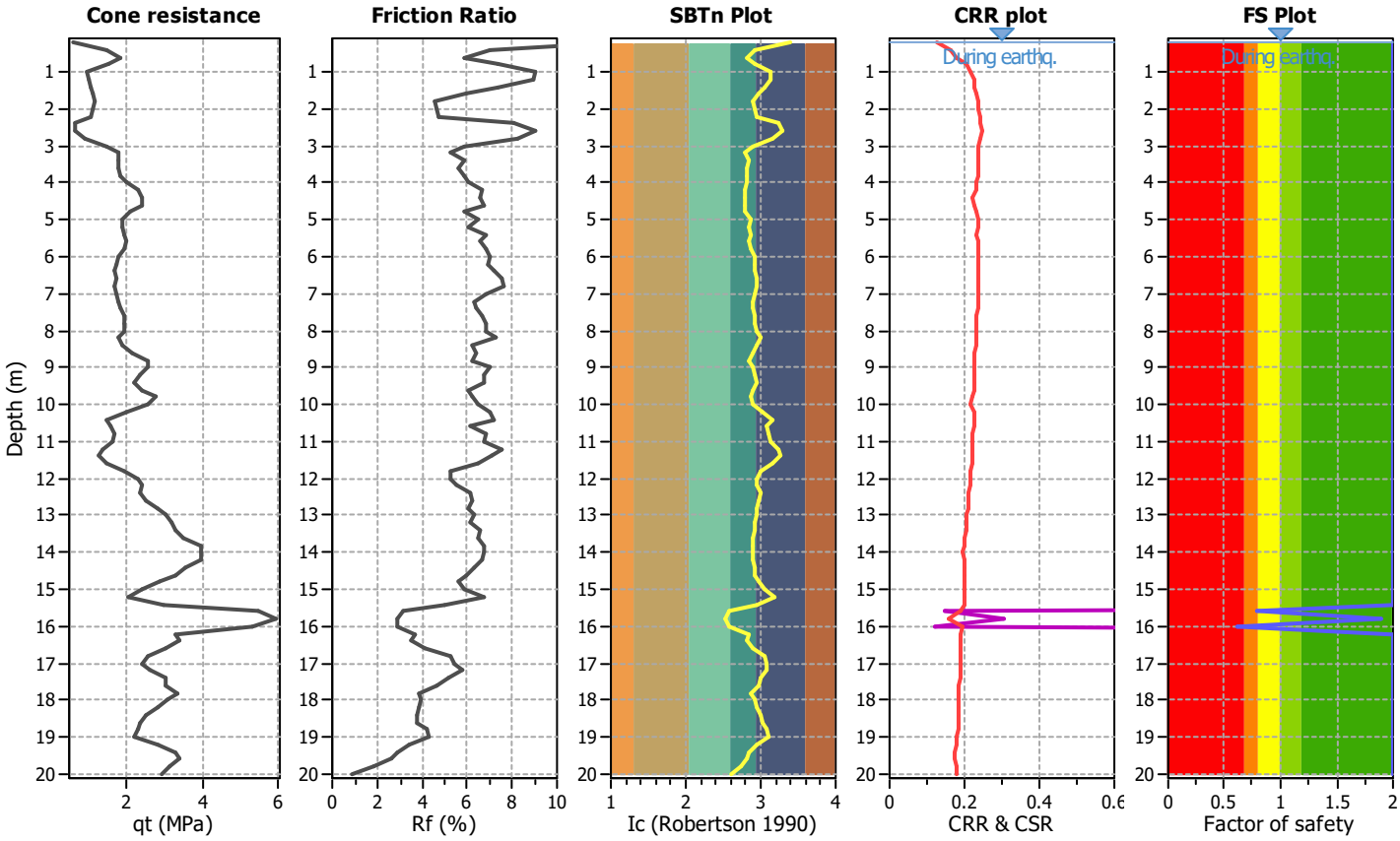
LIQUEFACTION ANALYSIS REPORT

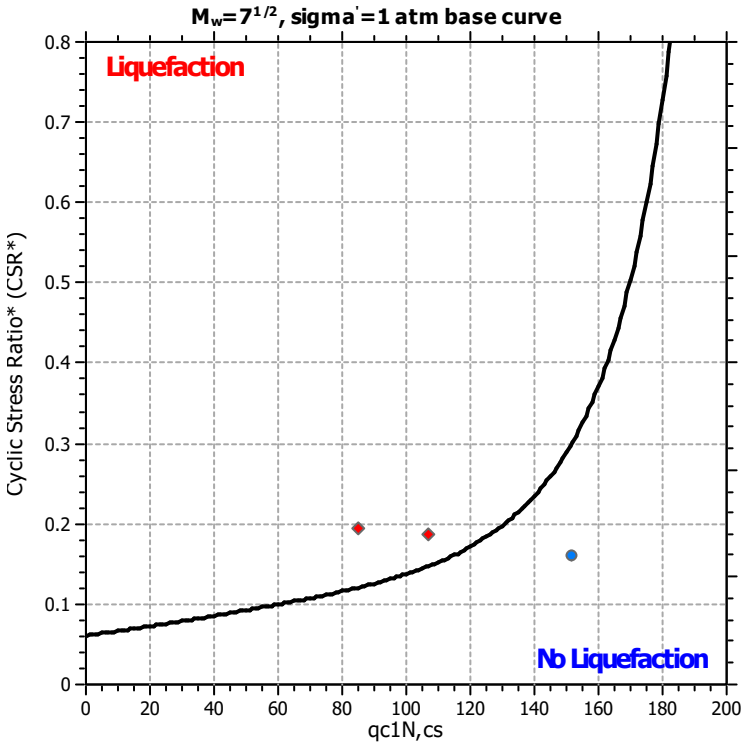
Project title : **Location :**

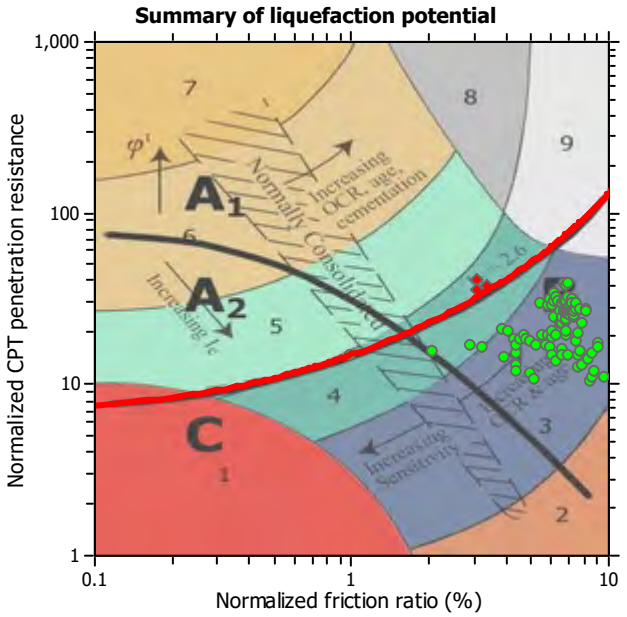
CPT file : SP155

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

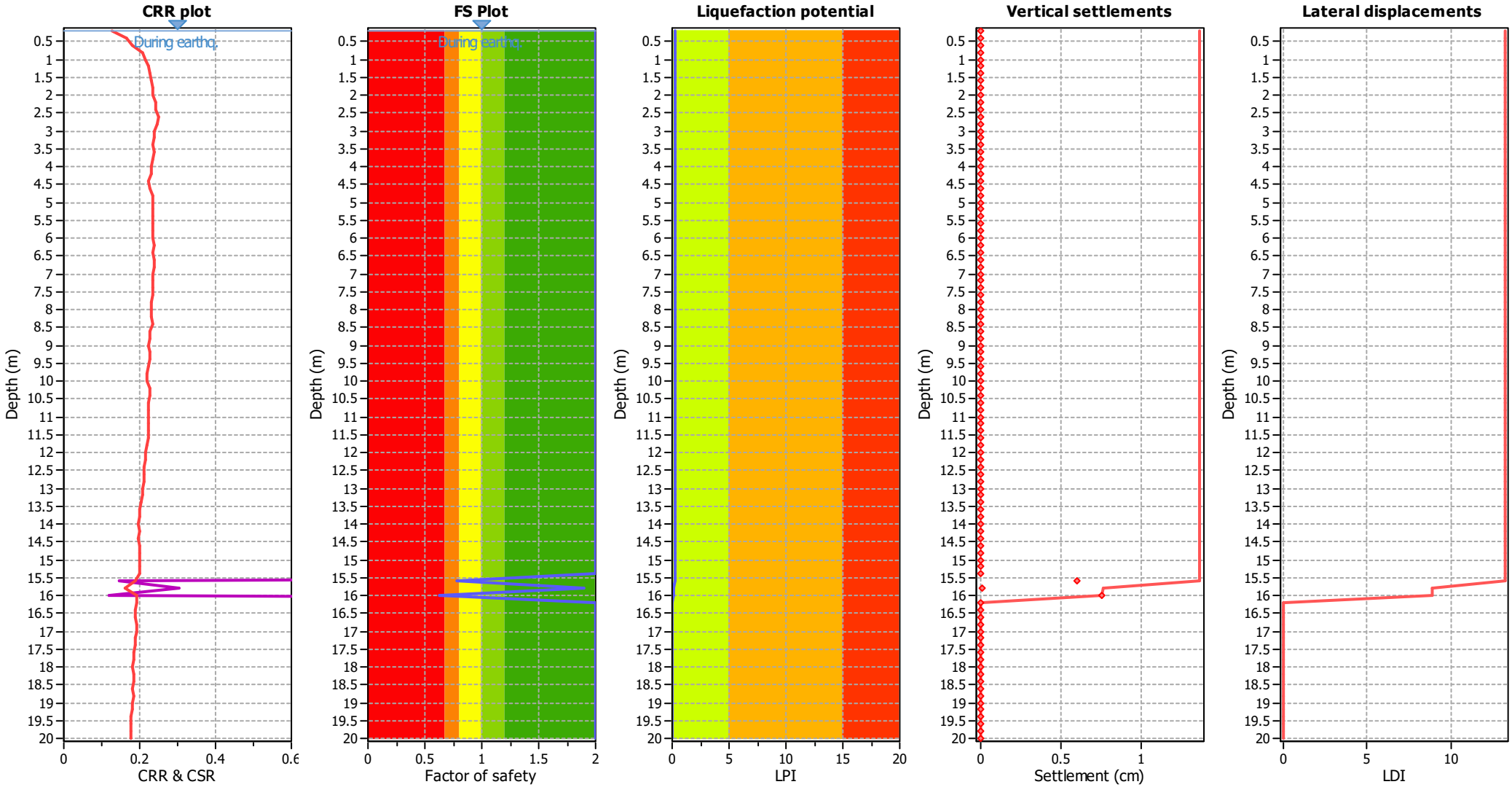






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	0.79	0.21	1.50	0.20	0.09
15.80	1.89	0.00	0.00	0.20	0.00	16.00	0.62	0.38	0.68	0.20	0.15
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.25

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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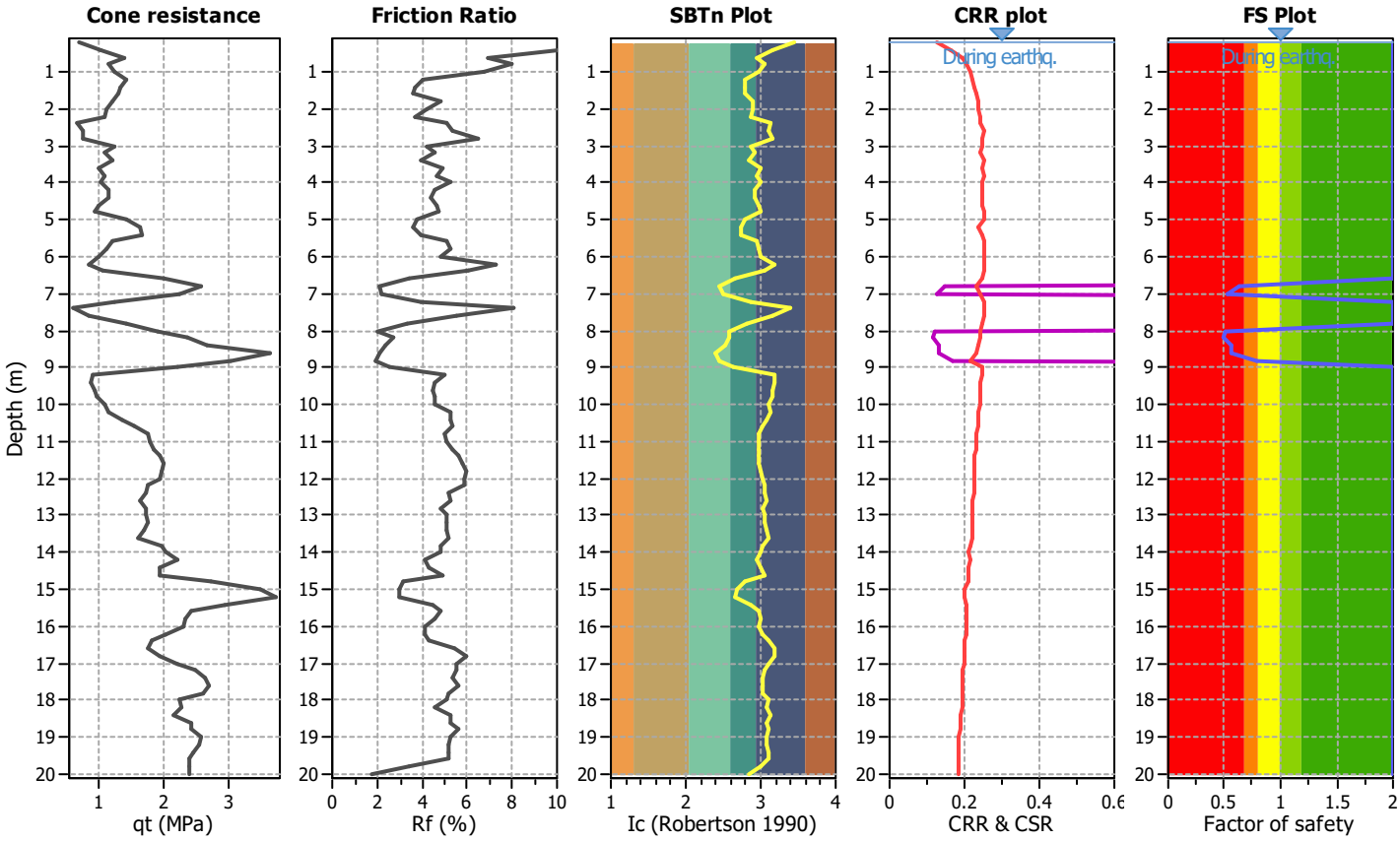
LIQUEFACTION ANALYSIS REPORT

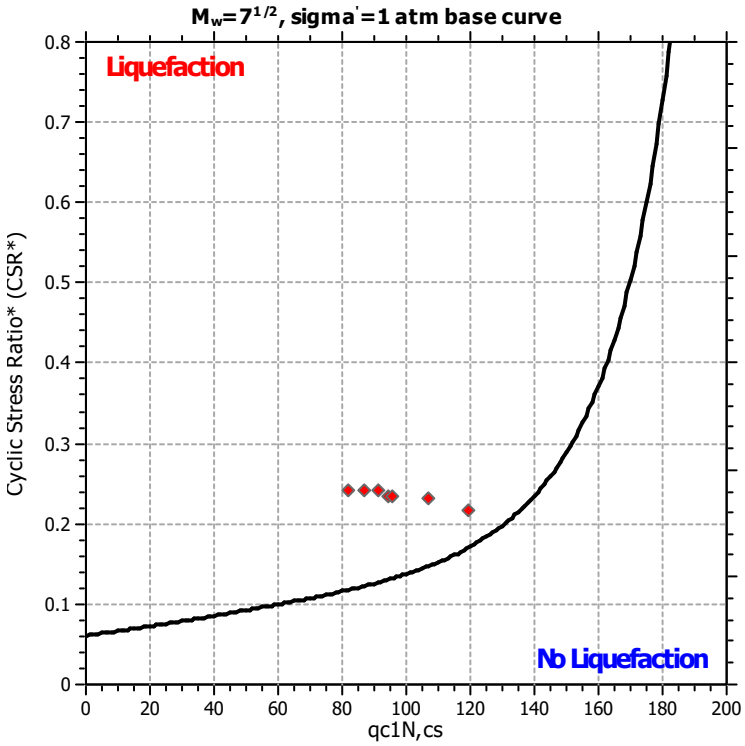
Project title : **Location :**

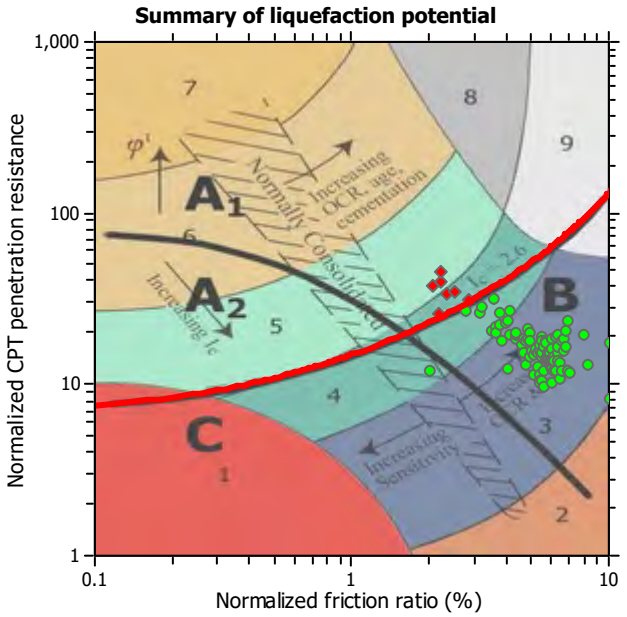
CPT file : SP157

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

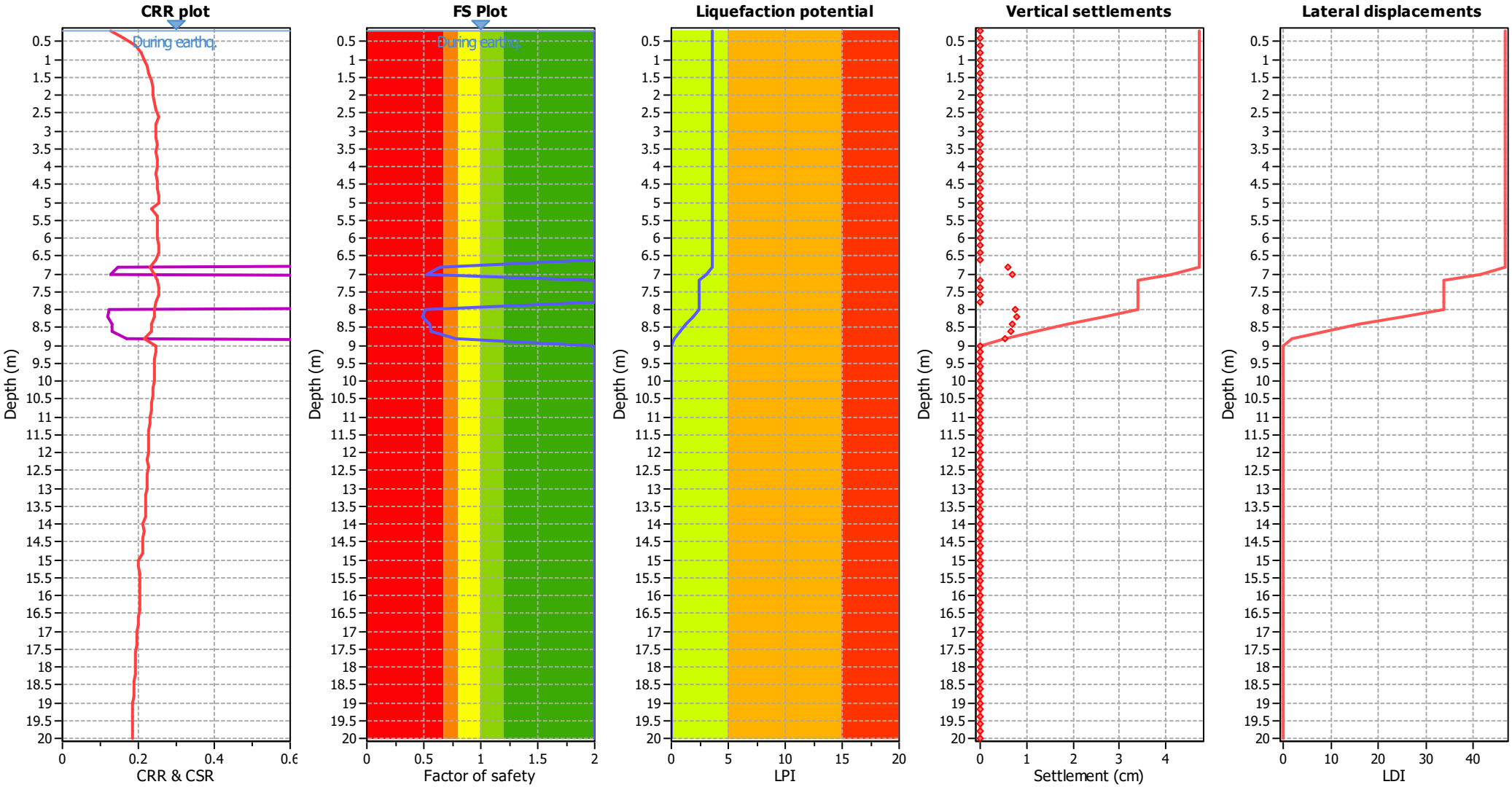






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	0.64	0.00	0.00	0.20	0.48
7.00	0.53	0.00	0.00	0.20	0.61	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	0.51	0.00	0.00	0.20	0.59
8.20	0.49	0.00	0.00	0.20	0.61	8.40	0.55	0.00	0.00	0.20	0.52
8.60	0.56	0.00	0.00	0.20	0.50	8.80	0.79	0.00	0.00	0.20	0.24
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.55

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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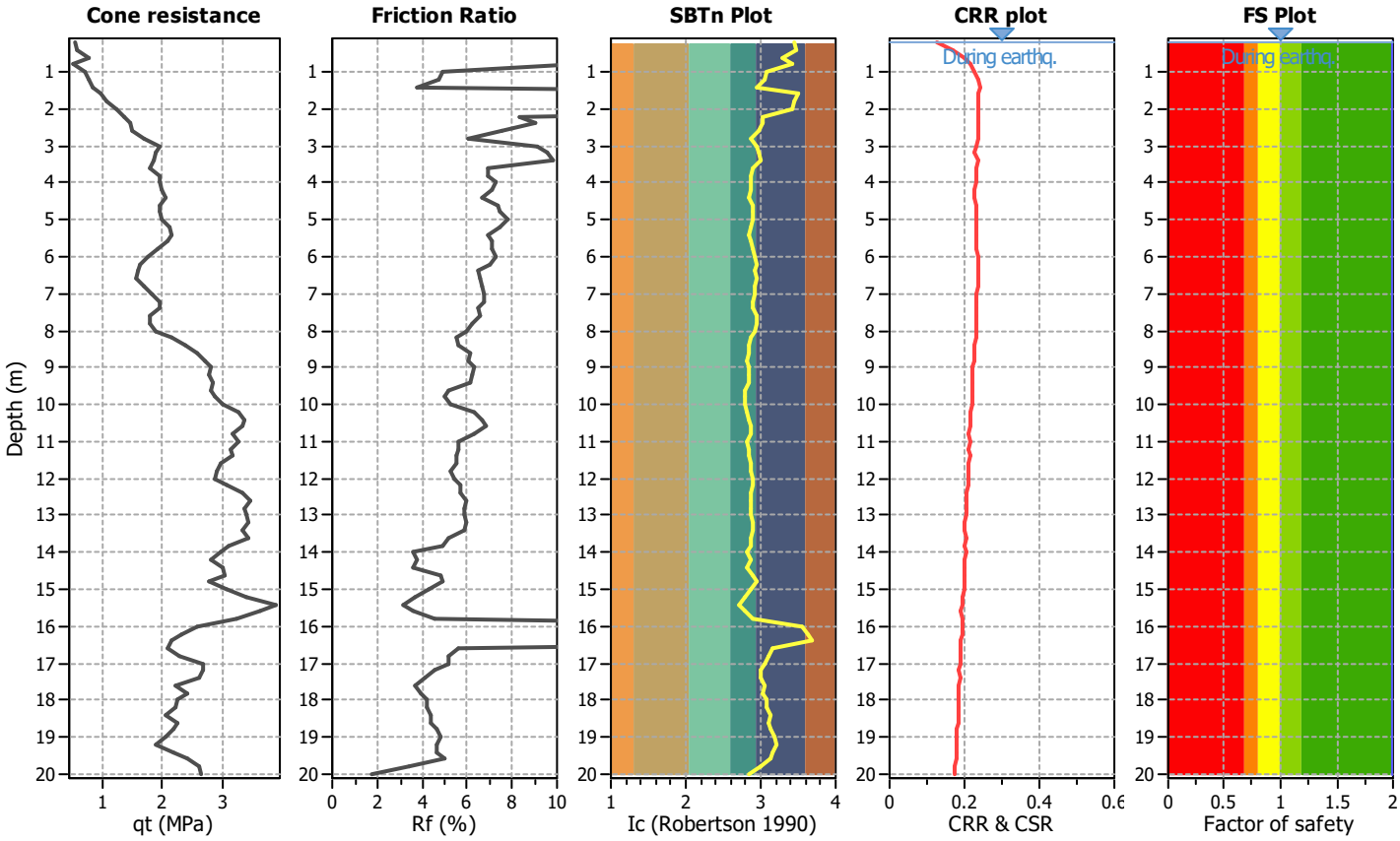
LIQUEFACTION ANALYSIS REPORT

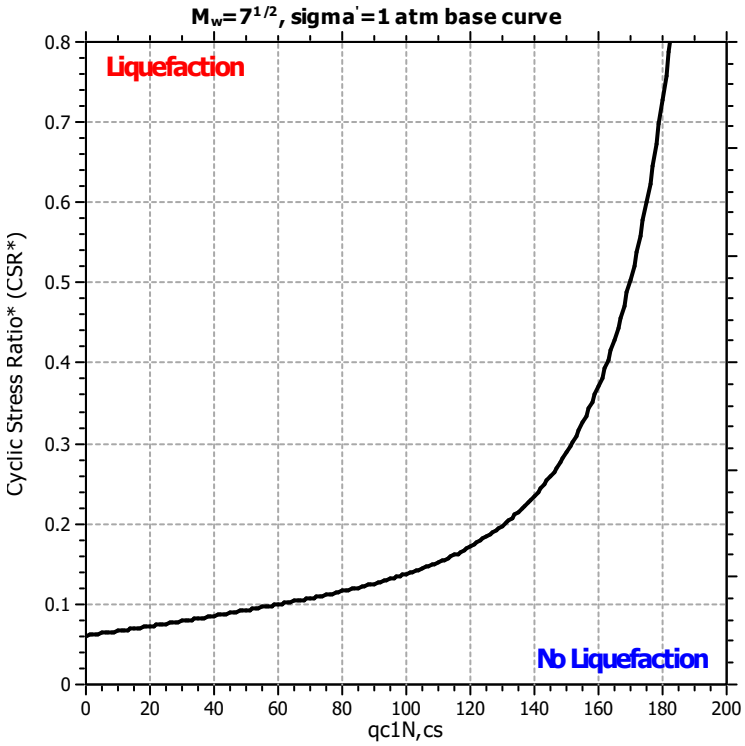
Project title : **Location :**

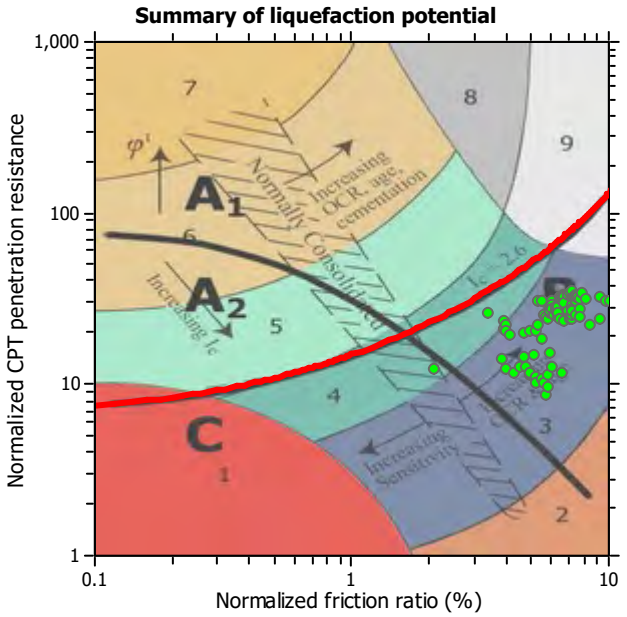
CPT file : SP158

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

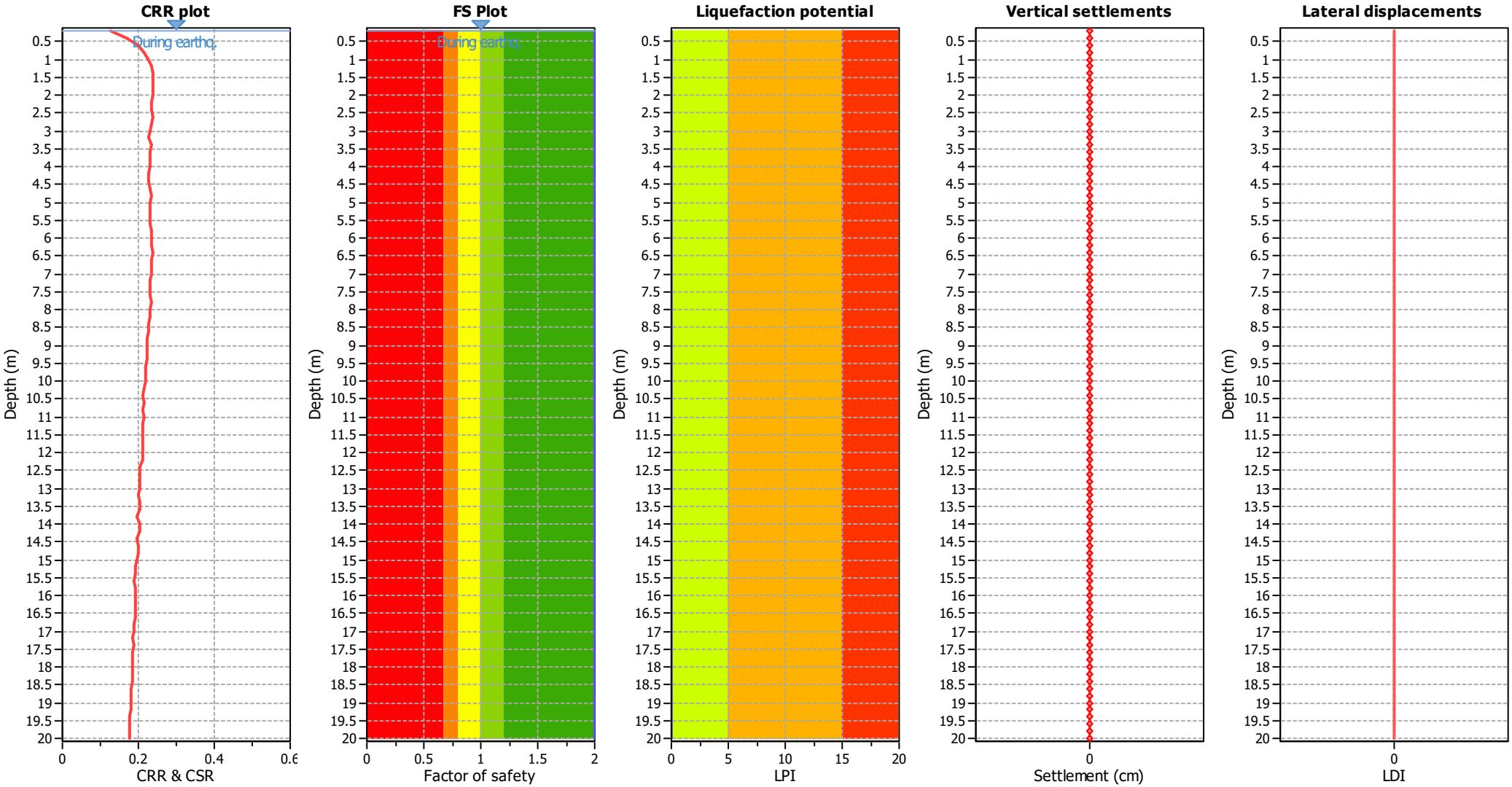






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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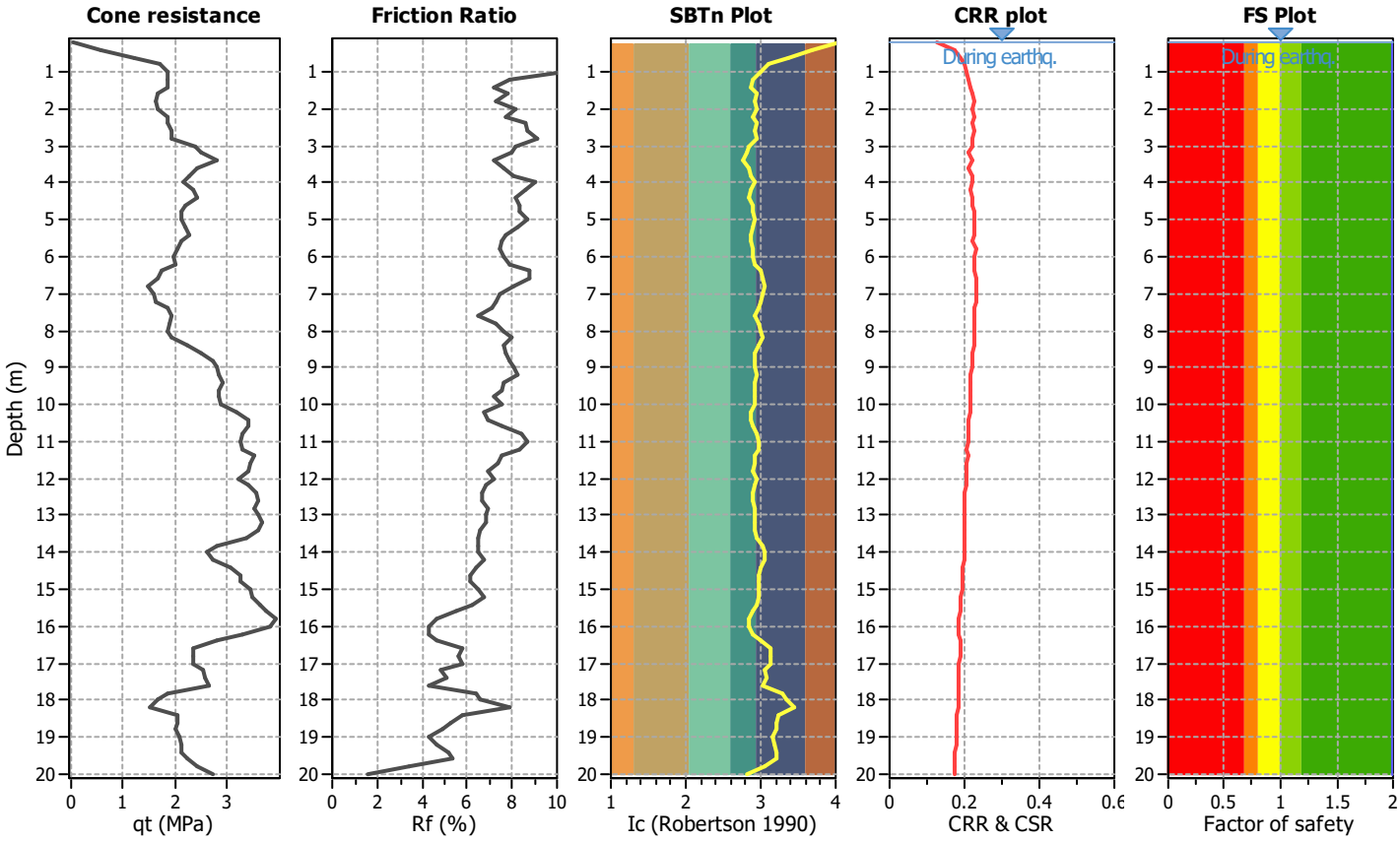
LIQUEFACTION ANALYSIS REPORT

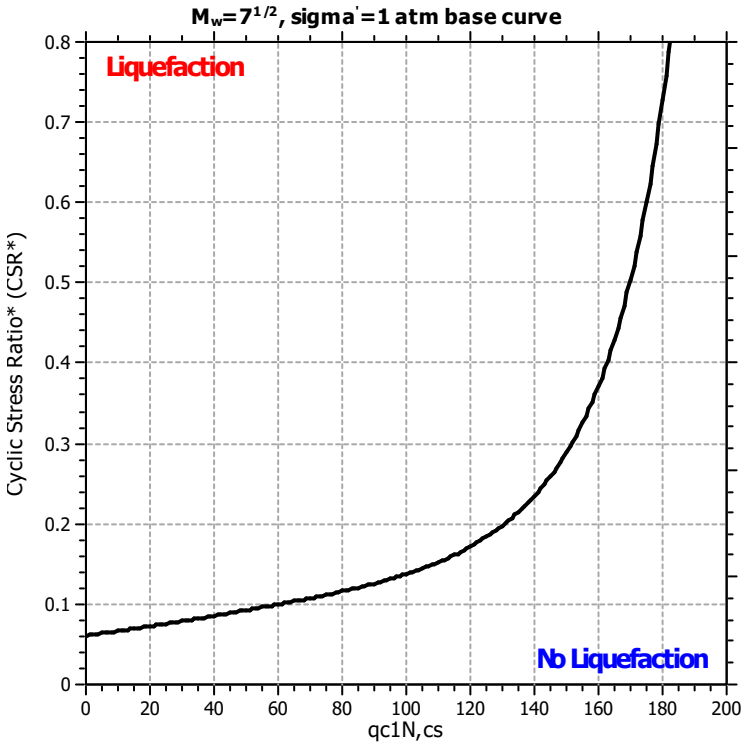
Project title : **Location :**

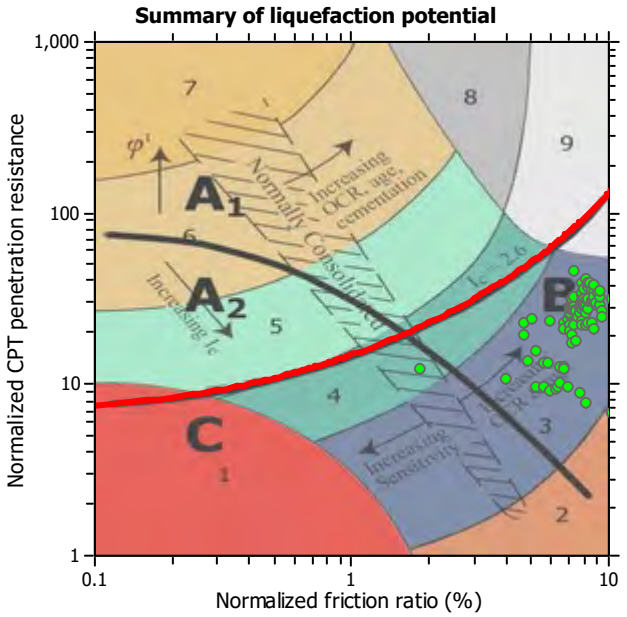
CPT file : SP159

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

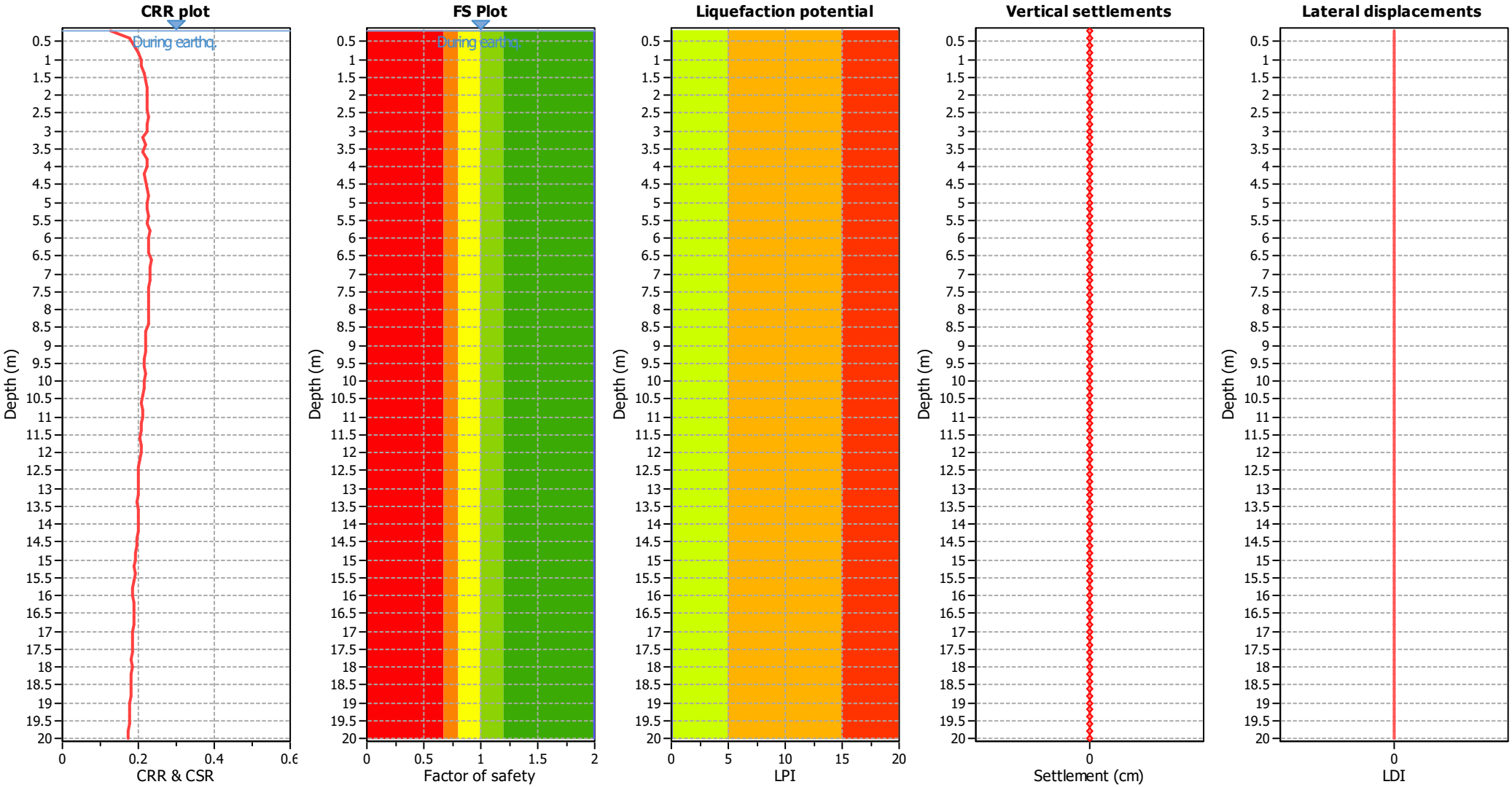






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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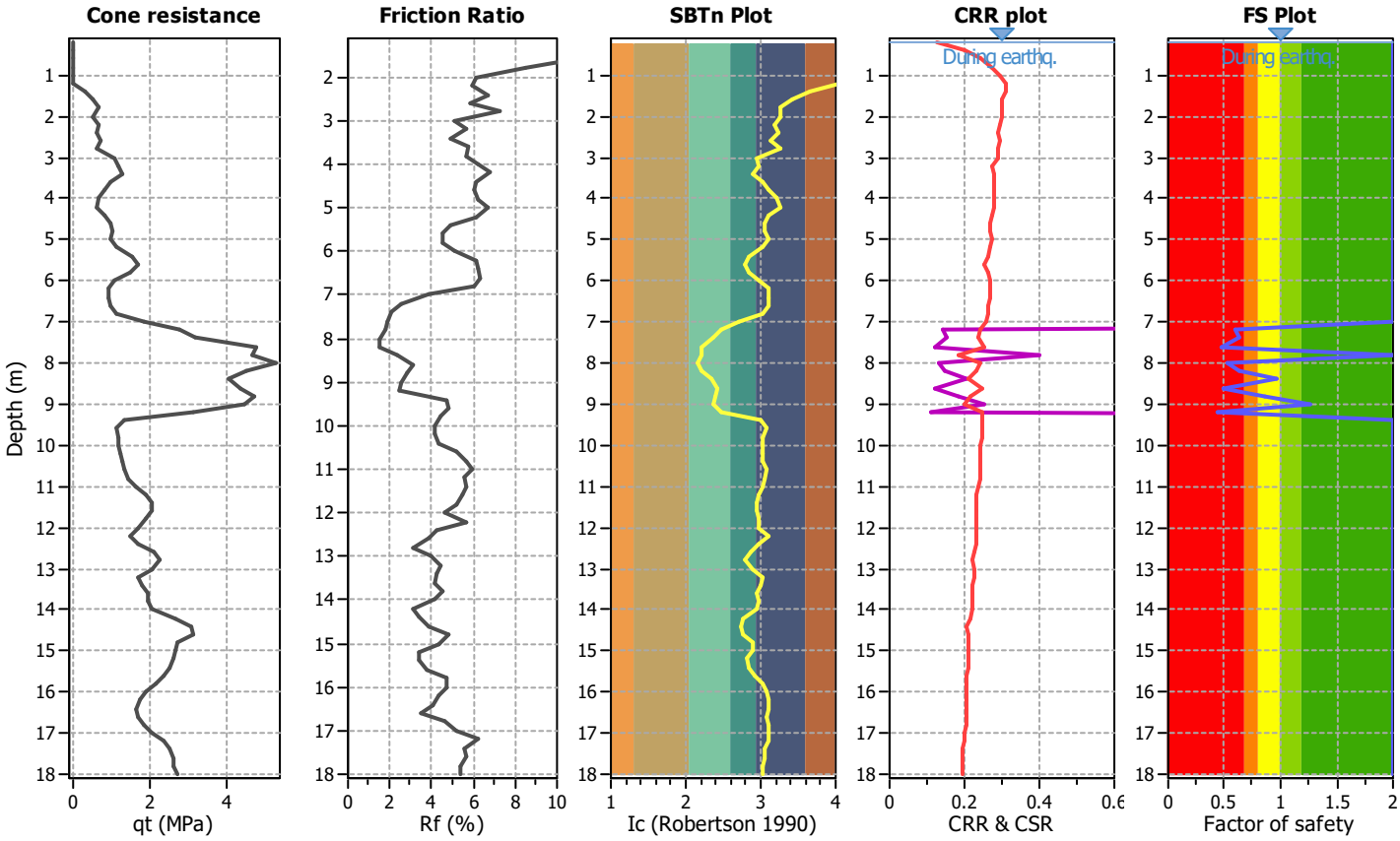
LIQUEFACTION ANALYSIS REPORT

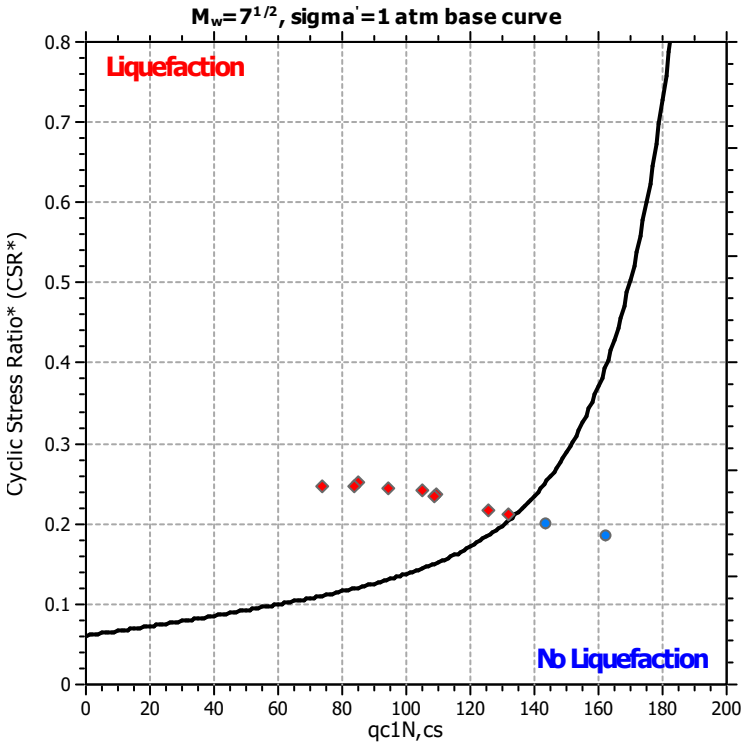
Project title : **Location :**

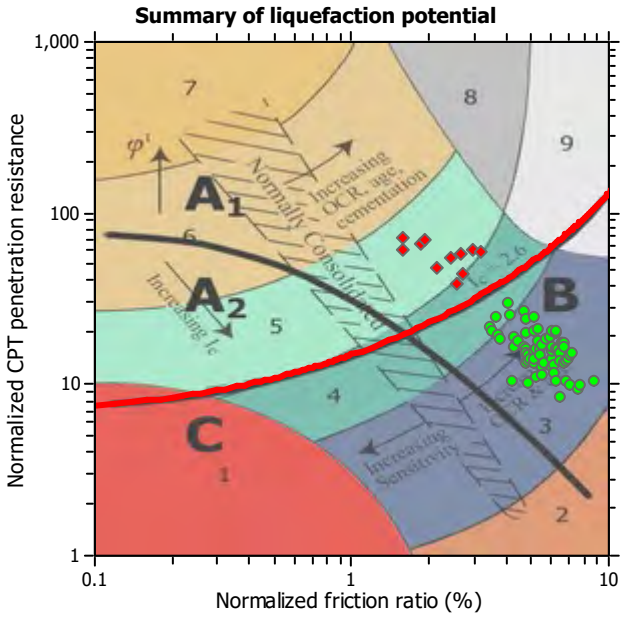
CPT file : SP160

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

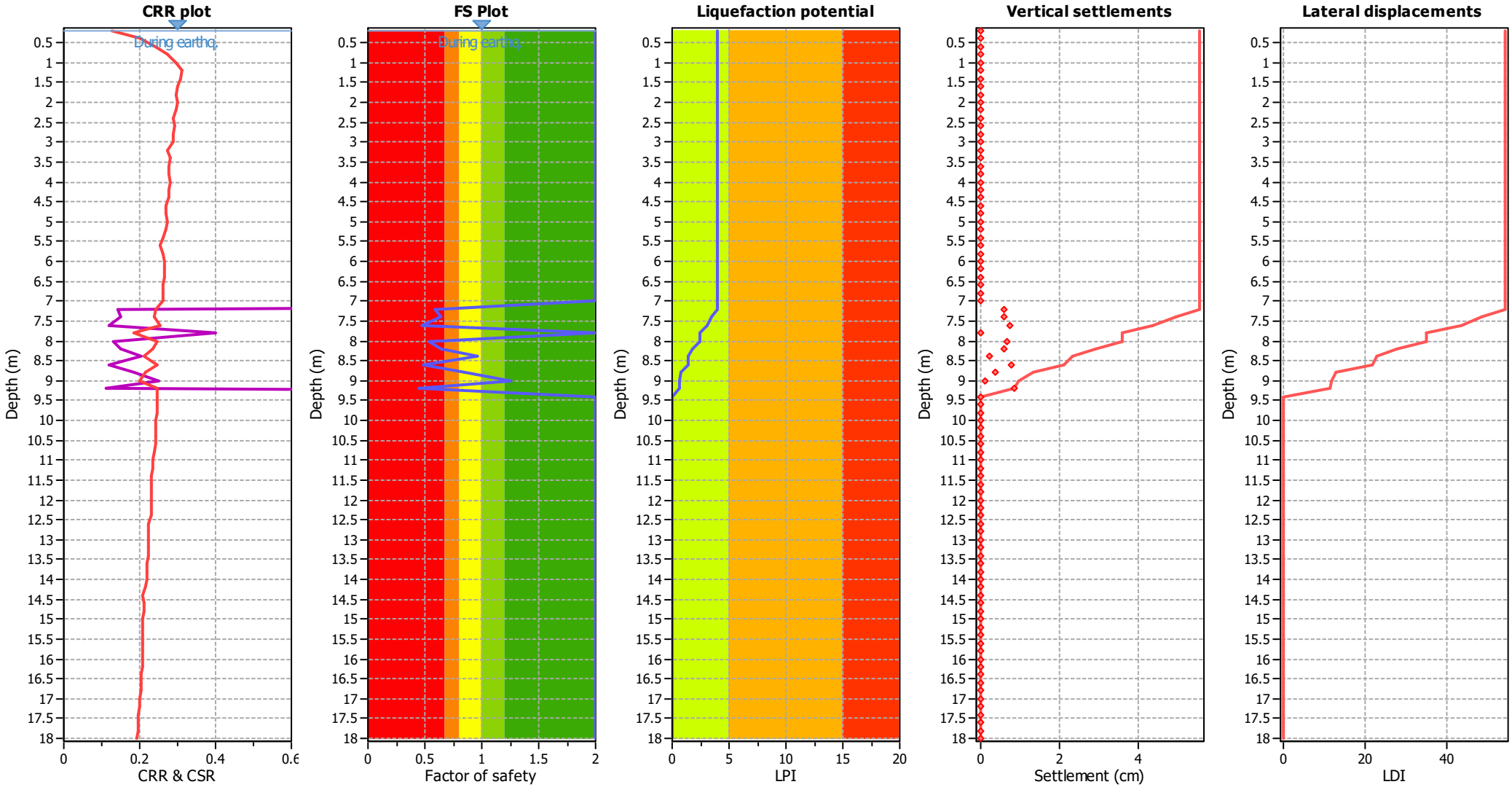






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	0.60	0.00	0.00	0.20	0.52
7.40	0.64	0.00	0.00	0.20	0.46	7.60	0.48	0.00	0.00	0.20	0.65
7.80	2.00	0.00	0.00	0.20	0.00	8.00	0.53	0.00	0.00	0.20	0.56
8.20	0.64	0.00	0.00	0.20	0.42	8.40	0.96	0.00	0.00	0.20	0.05
8.60	0.48	0.00	0.00	0.20	0.59	8.80	0.85	0.00	0.00	0.20	0.17
9.00	1.26	0.00	0.00	0.20	0.00	9.20	0.45	0.00	0.00	0.20	0.60
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 4.01

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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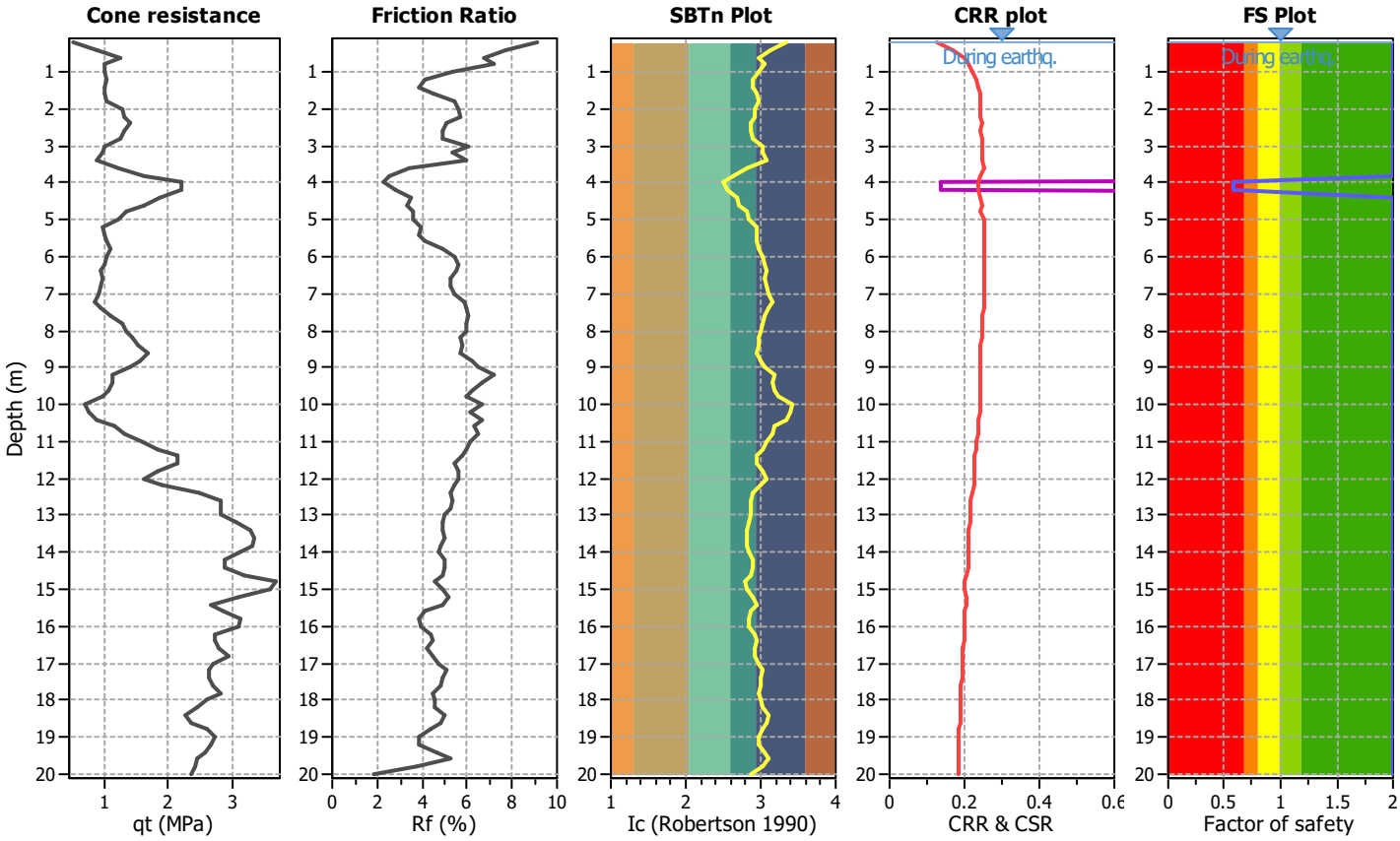
LIQUEFACTION ANALYSIS REPORT

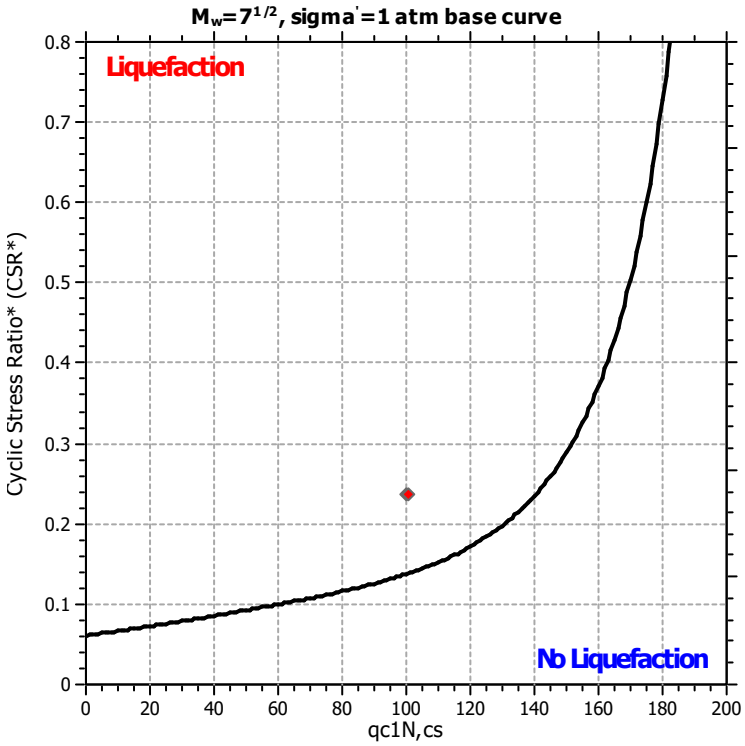
Project title : **Location :**

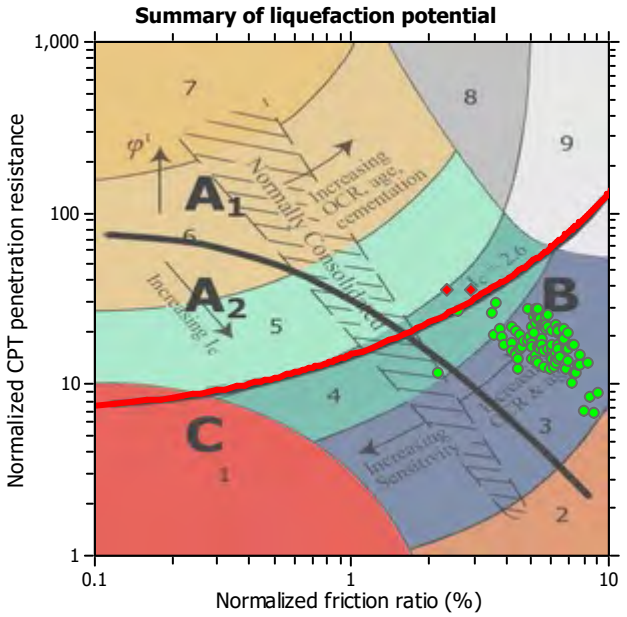
CPT file : SP161

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

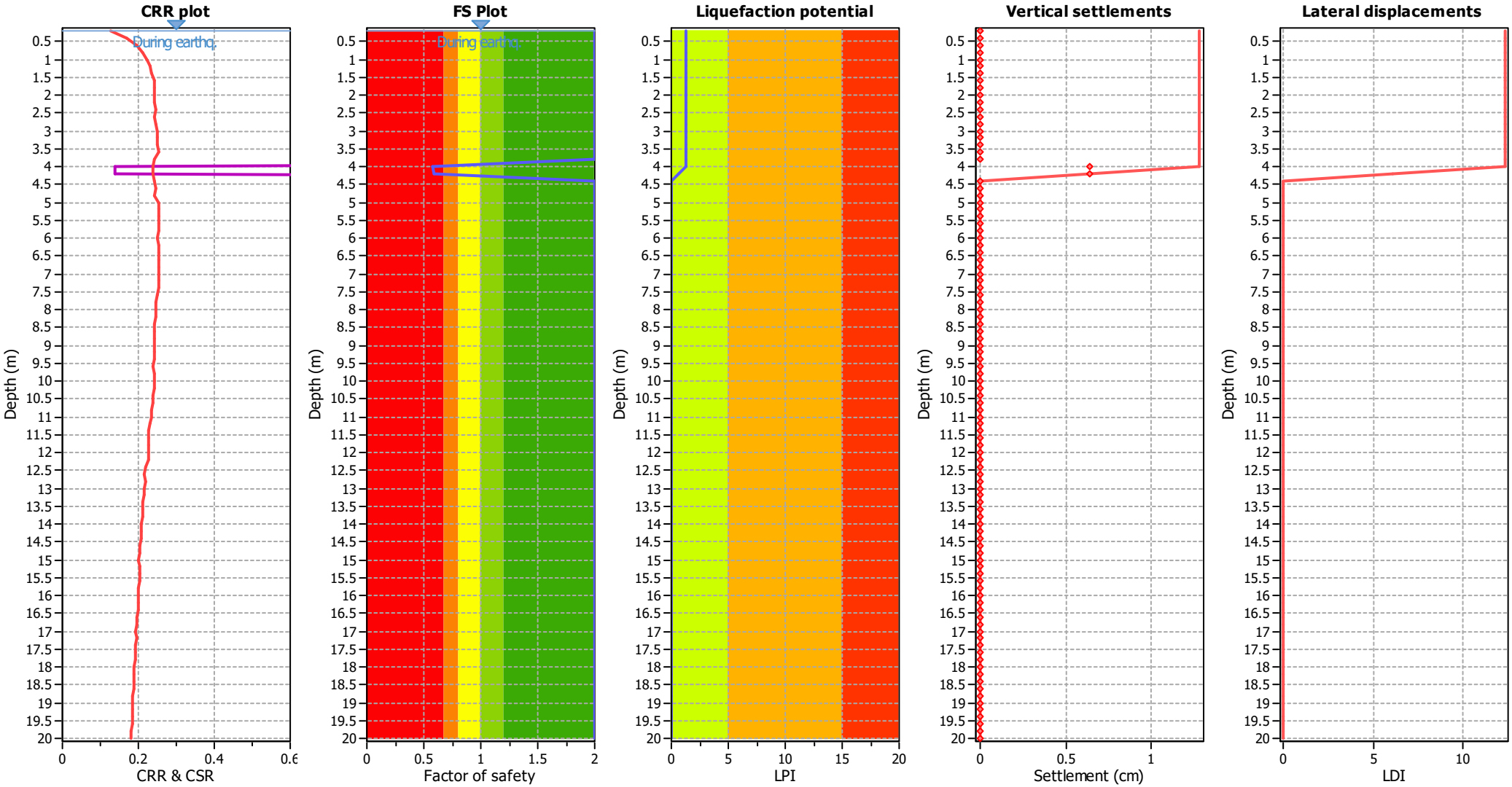






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.58	0.42	0.59	0.20	0.68
4.20	0.59	0.41	0.60	0.20	0.66	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.33

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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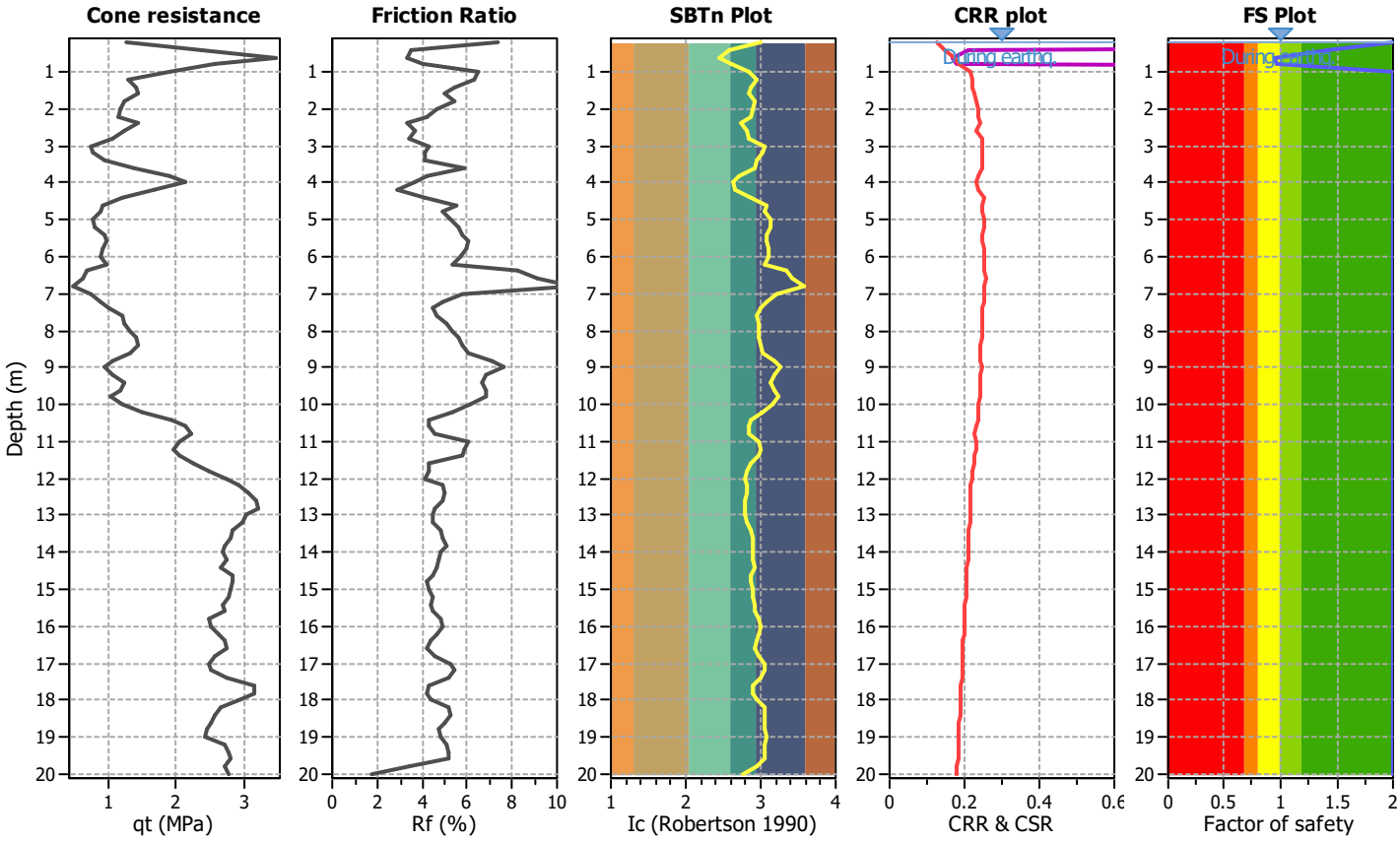
LIQUEFACTION ANALYSIS REPORT

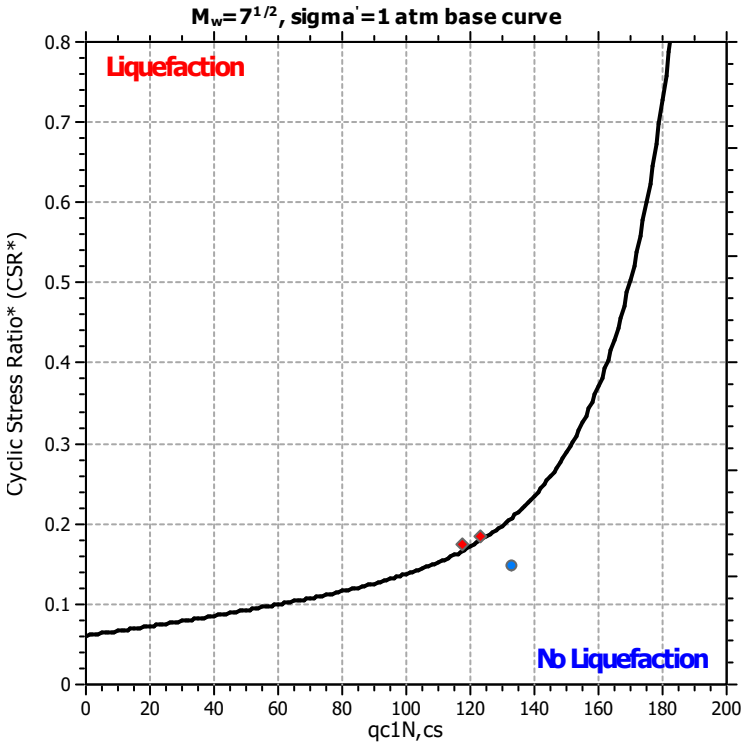
Project title : **Location :**

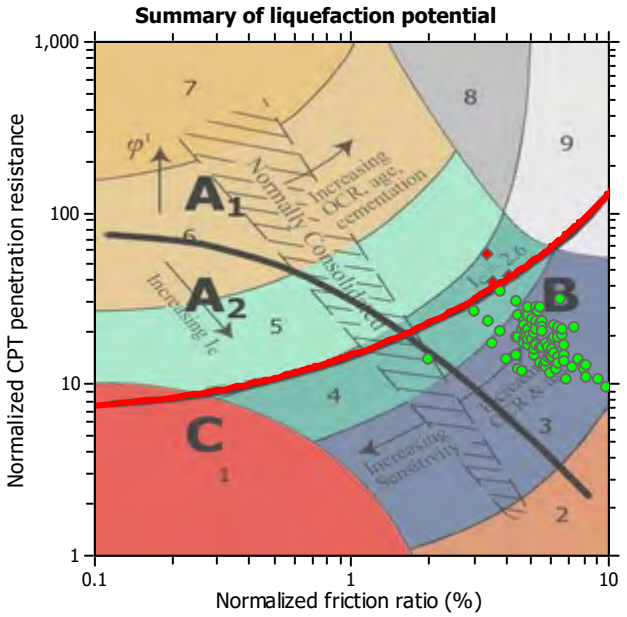
CPT file : SP162

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

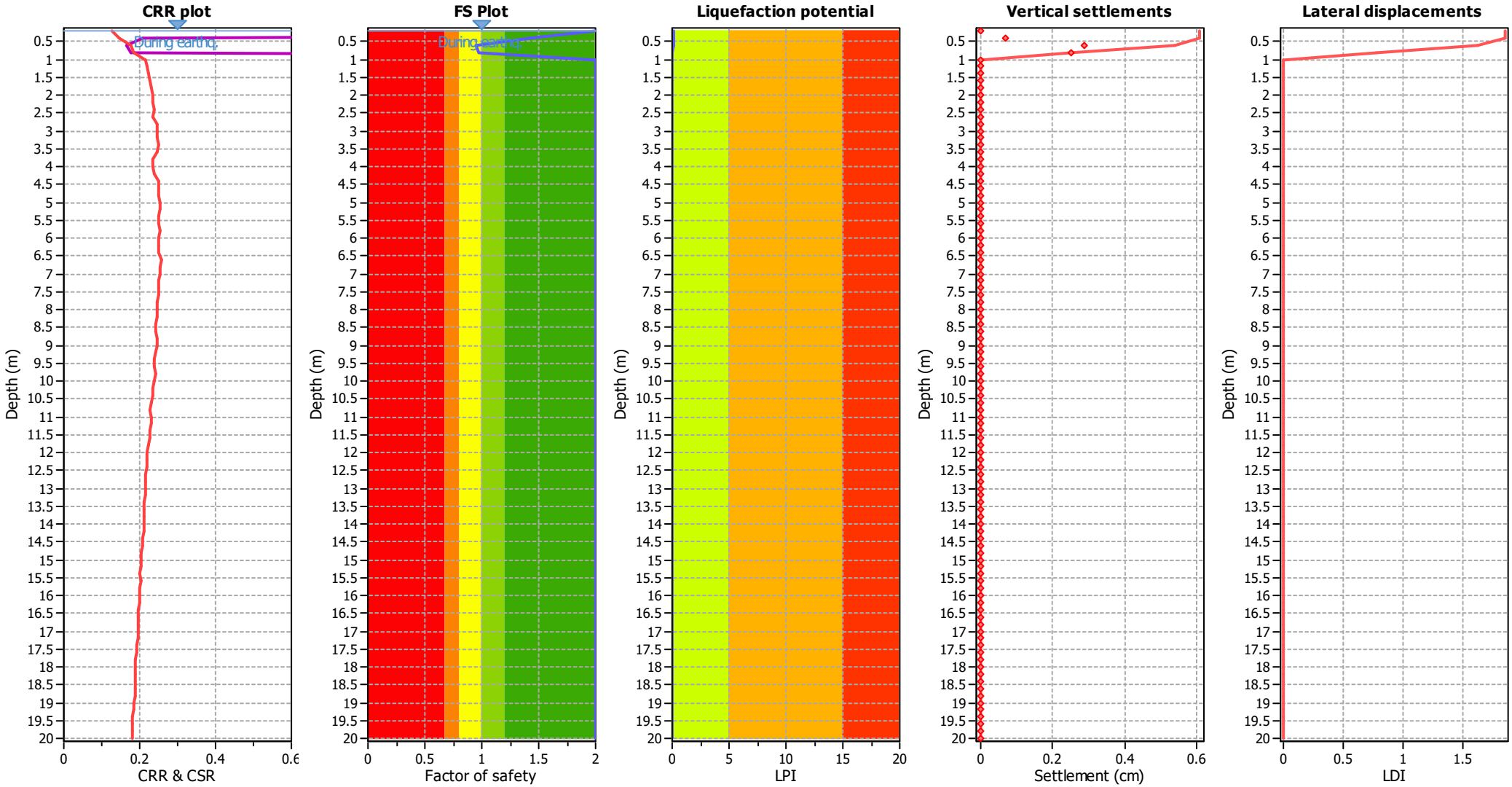






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	1.42	0.00	0.00	0.20	0.00
0.60	0.95	0.05	49.98	0.20	0.10	0.80	0.97	0.03	518.17	0.20	0.06
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.16

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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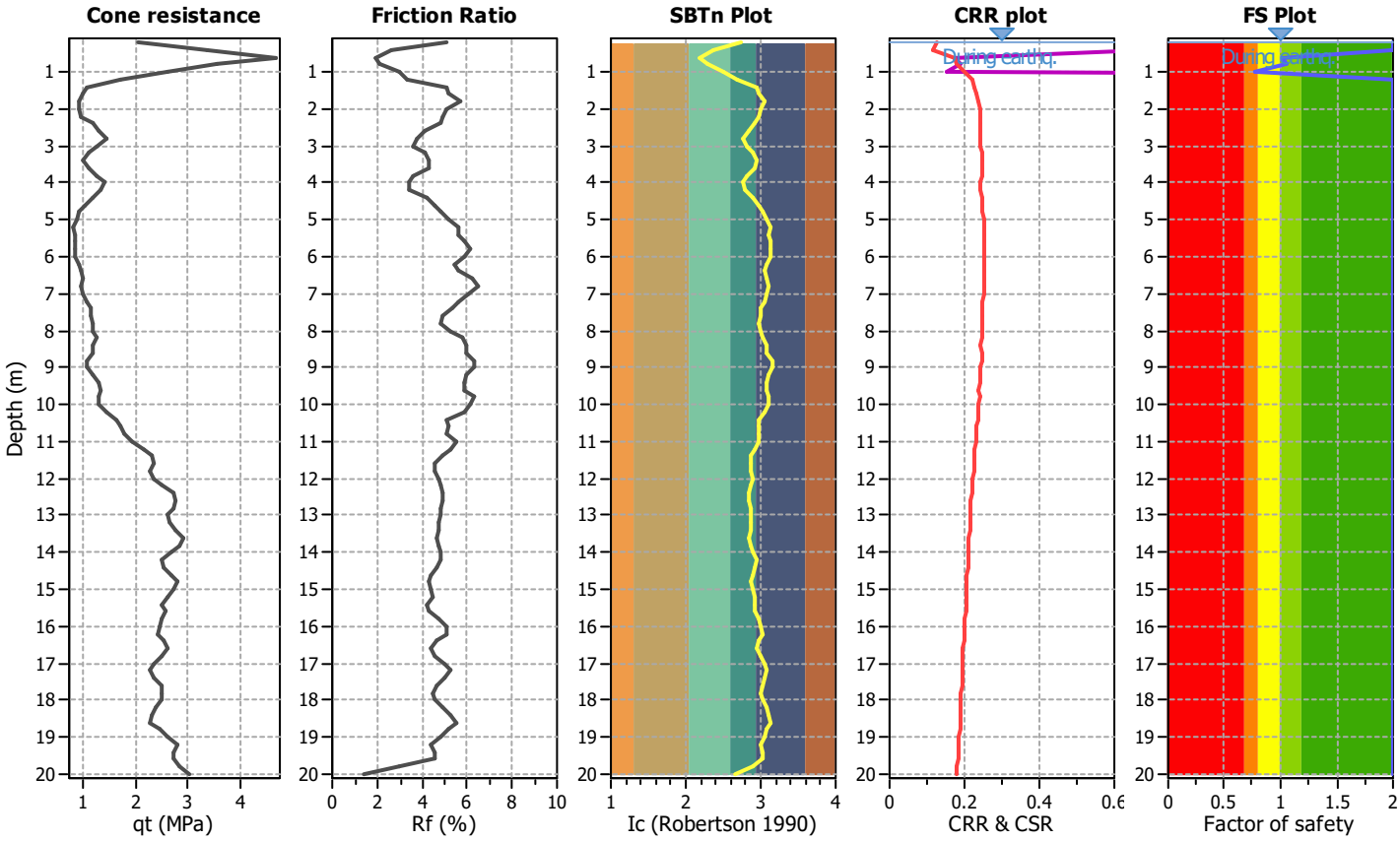
LIQUEFACTION ANALYSIS REPORT

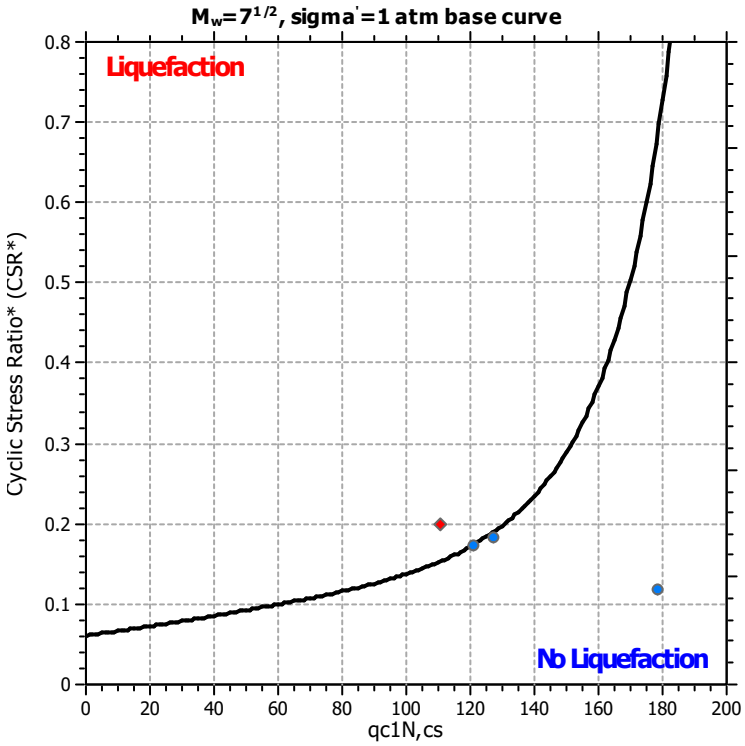
Project title : **Location :**

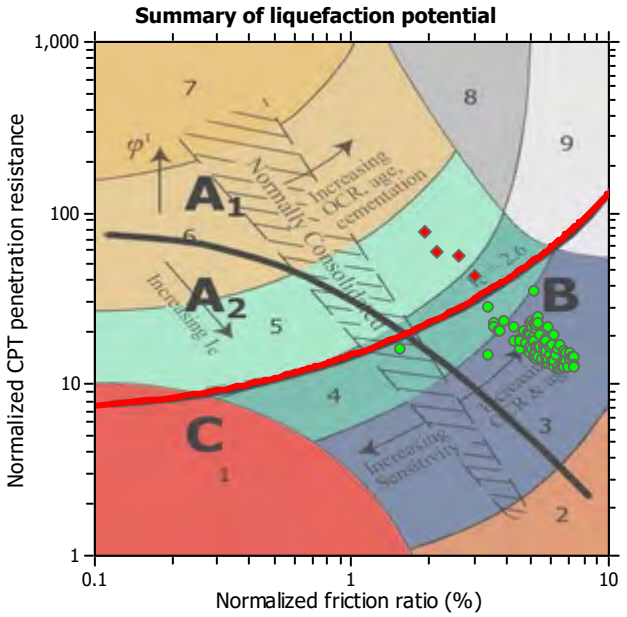
CPT file : SP163

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

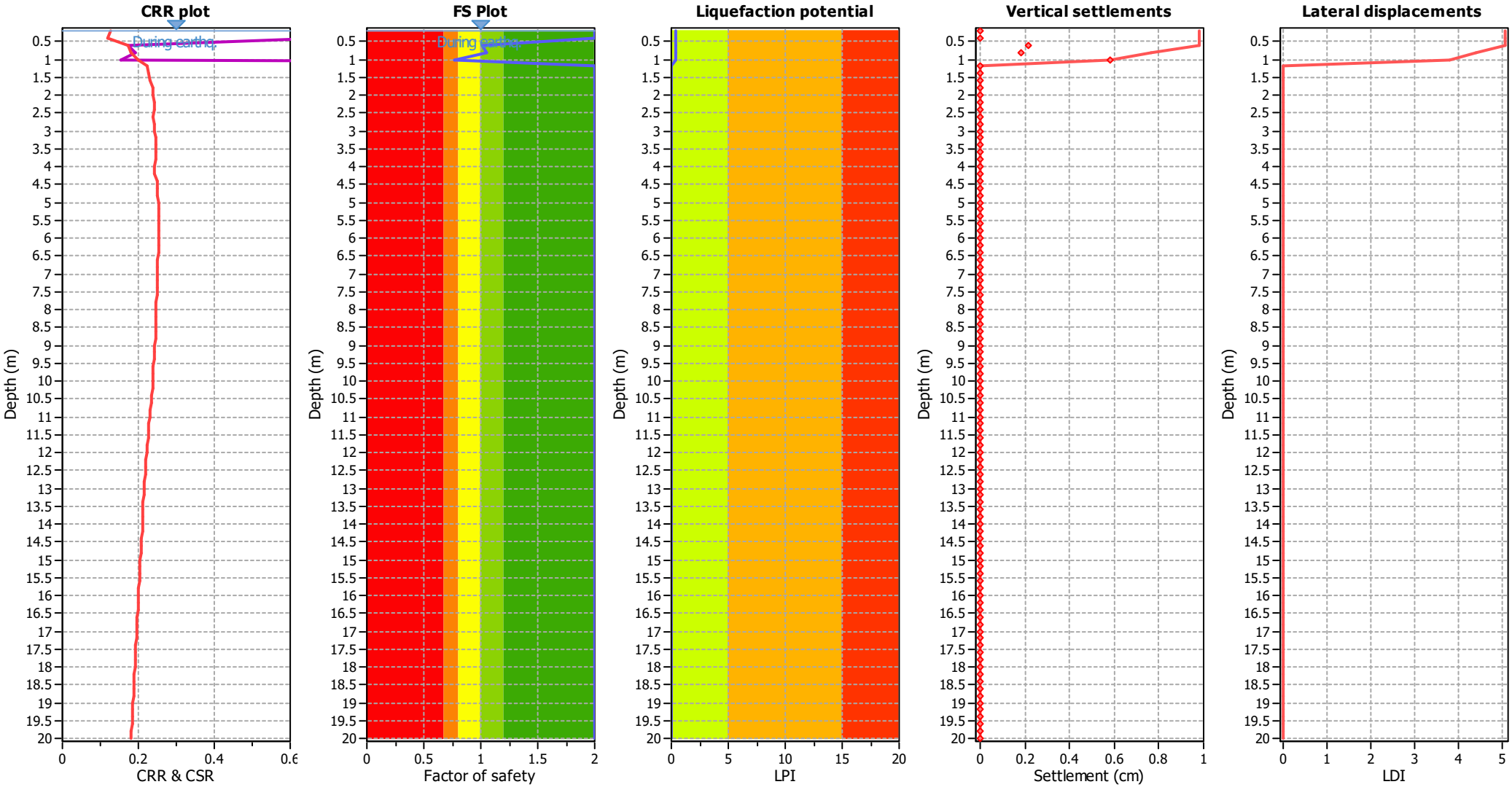






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	1.01	0.00	0.00	0.20	0.00	0.80	1.06	0.00	0.00	0.20	0.00
1.00	0.77	0.23	1.32	0.20	0.44	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.44

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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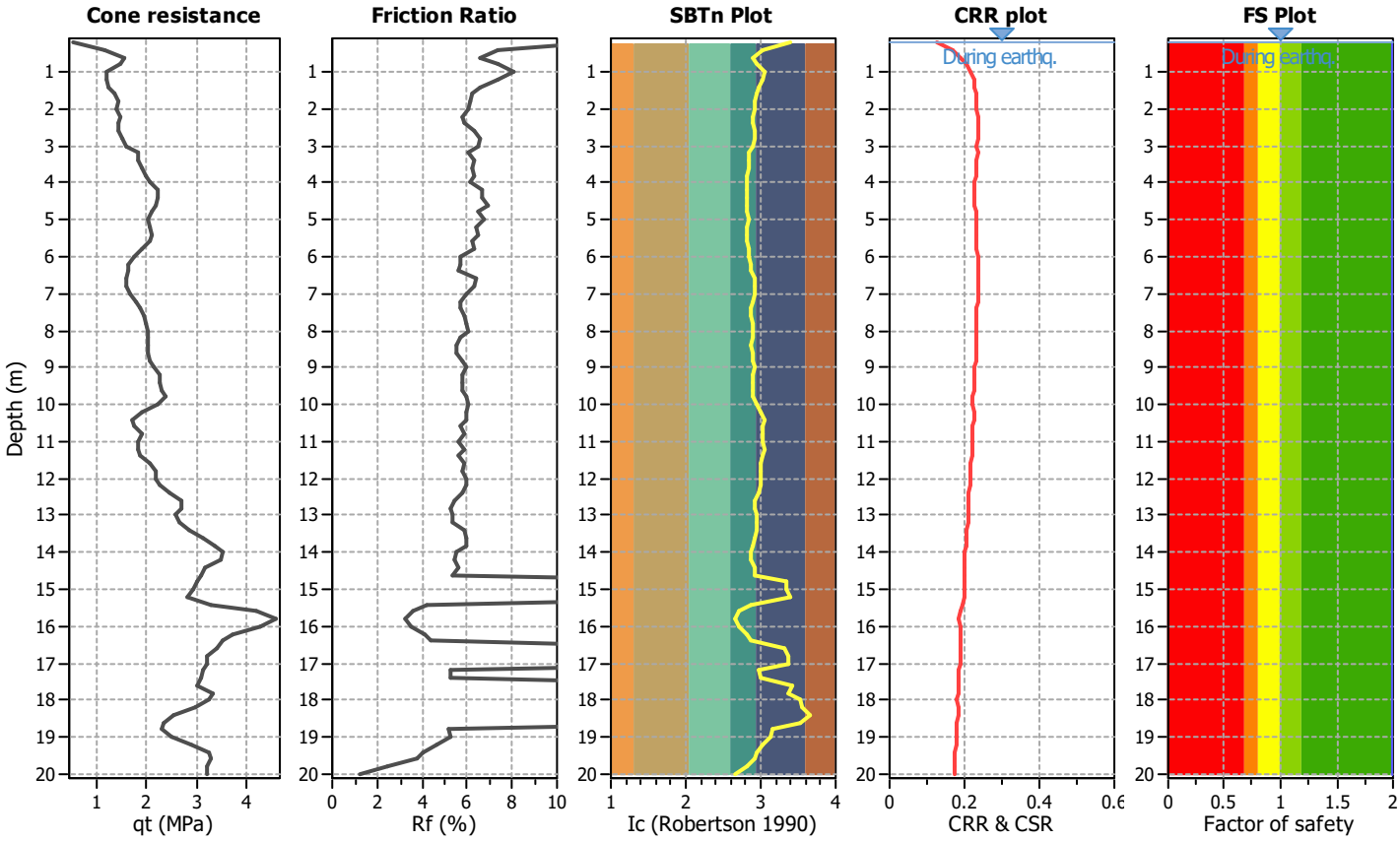
LIQUEFACTION ANALYSIS REPORT

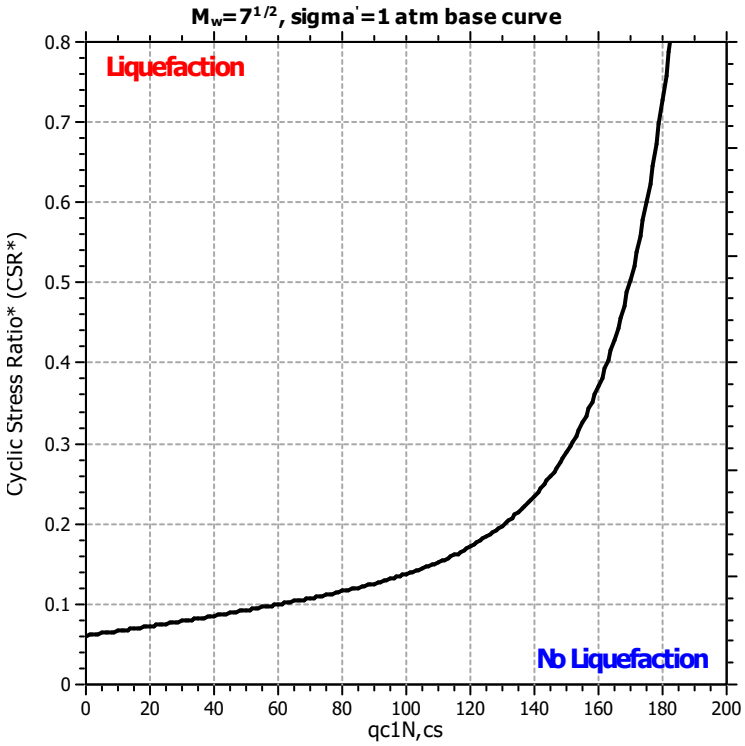
Project title : **Location :**

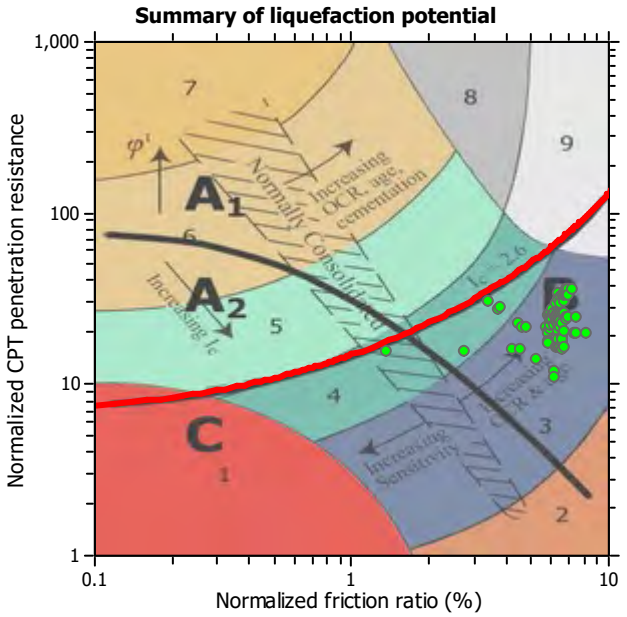
CPT file : SP165

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

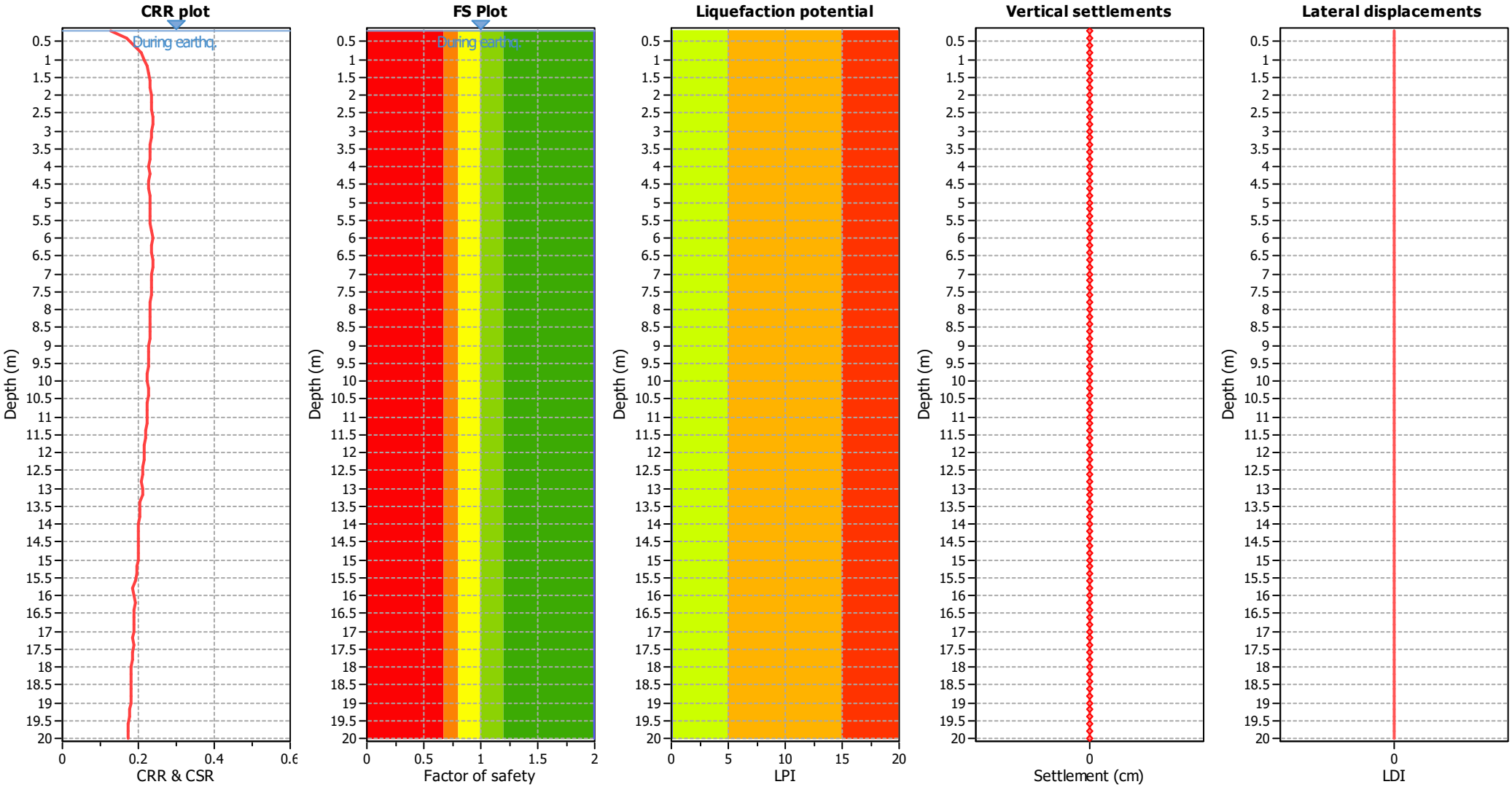






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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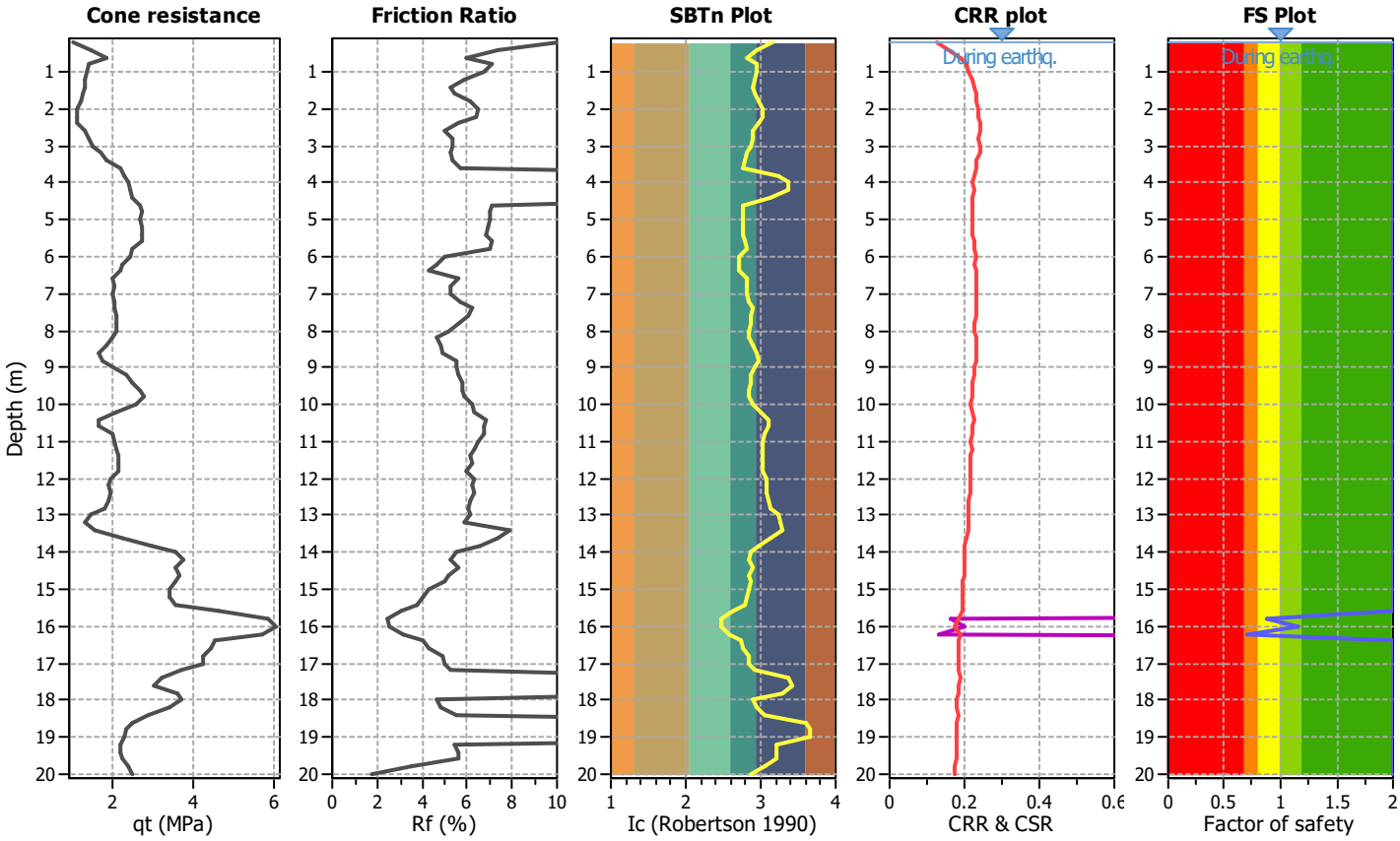
LIQUEFACTION ANALYSIS REPORT

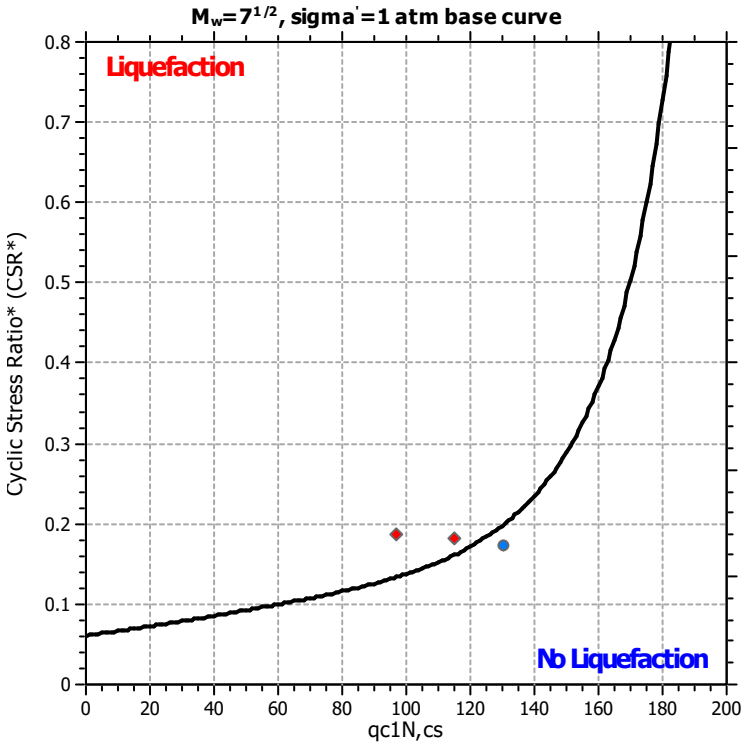
Project title : **Location :**

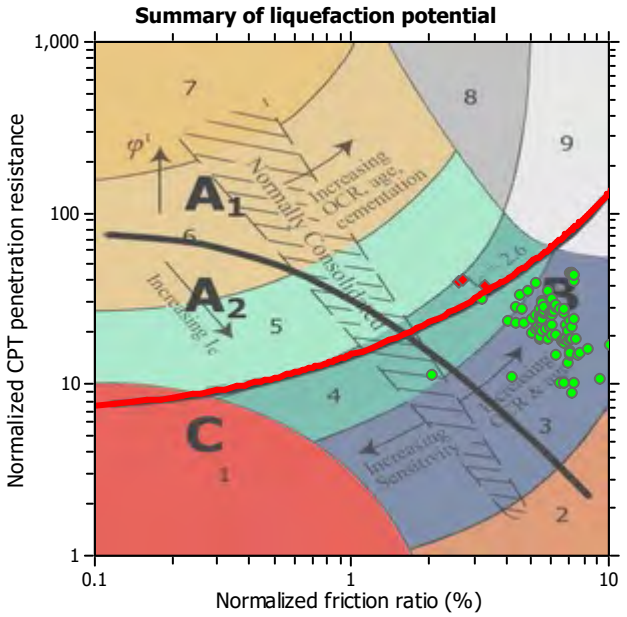
CPT file : SP166

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

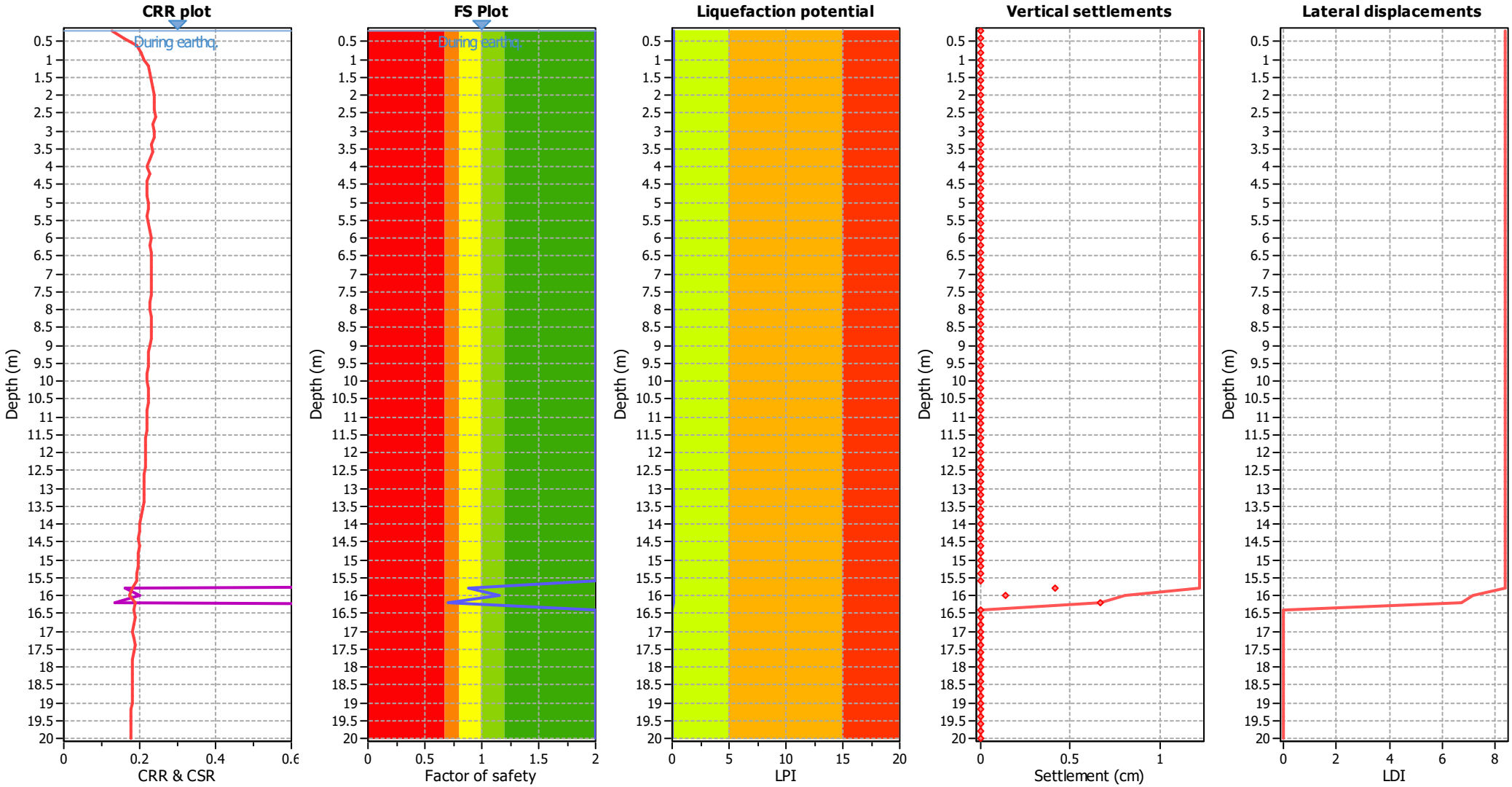






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	0.88	0.12	4.24	0.20	0.05	16.00	1.15	0.00	0.00	0.20	0.00
16.20	0.71	0.29	0.96	0.20	0.11	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.16

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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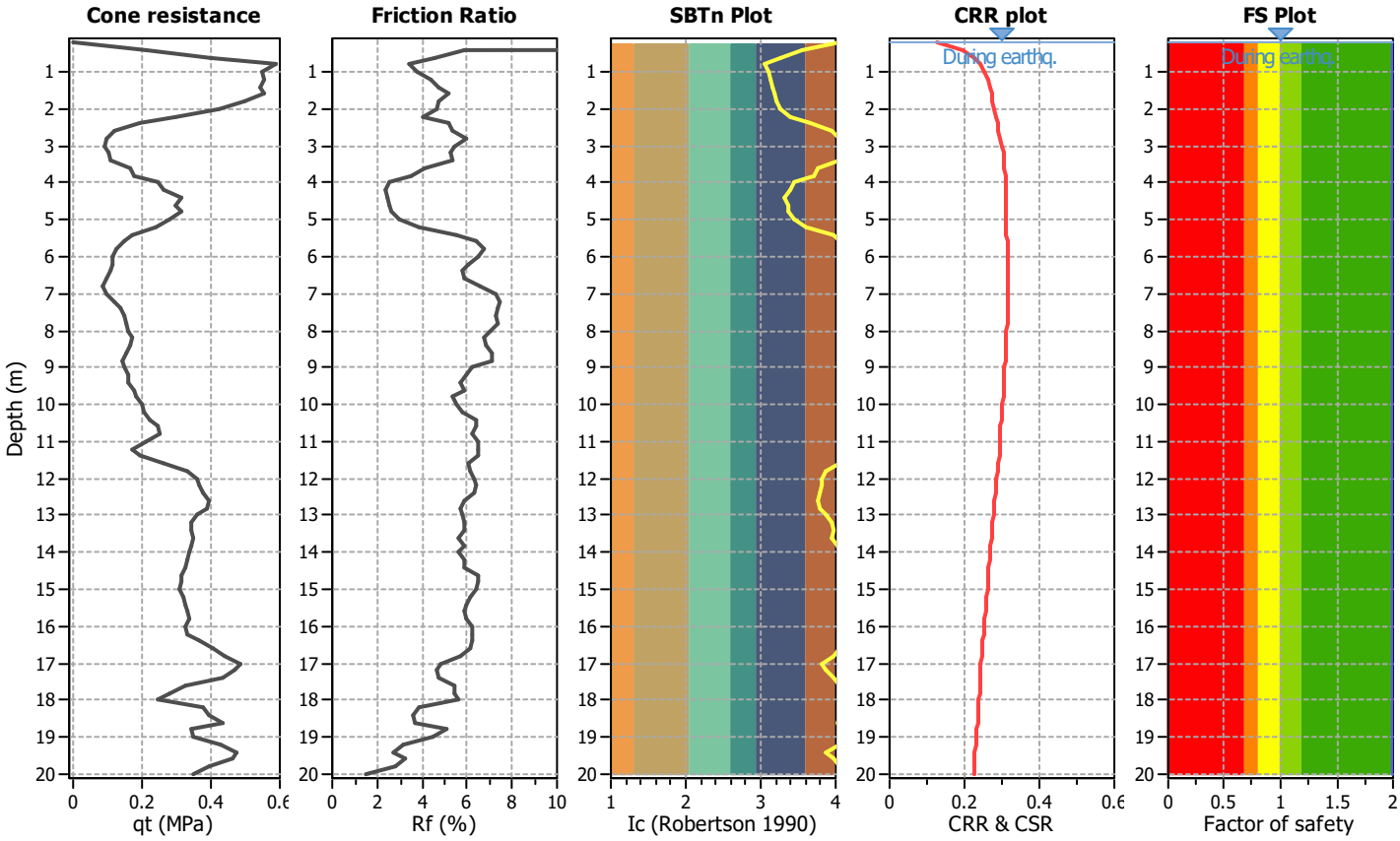
LIQUEFACTION ANALYSIS REPORT

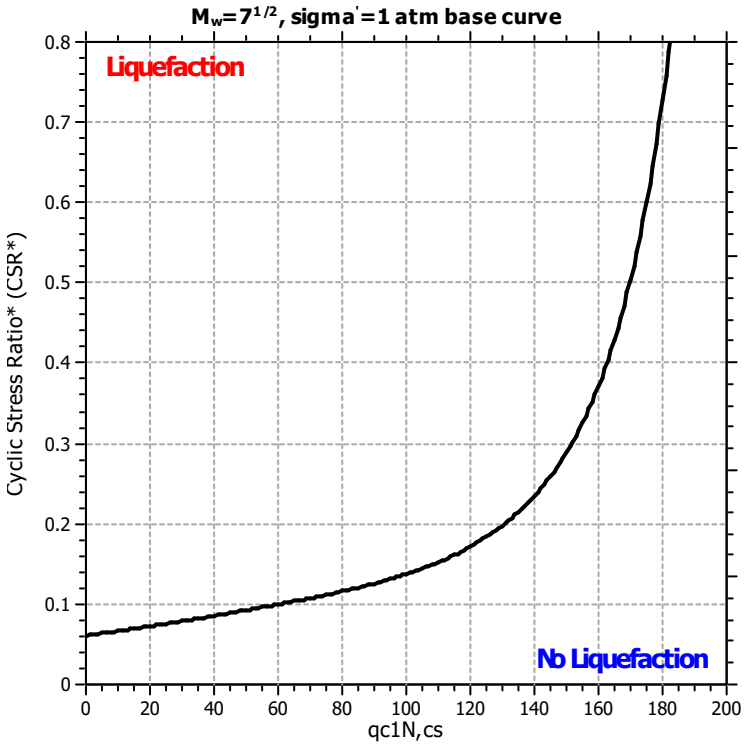
Project title : **Location :**

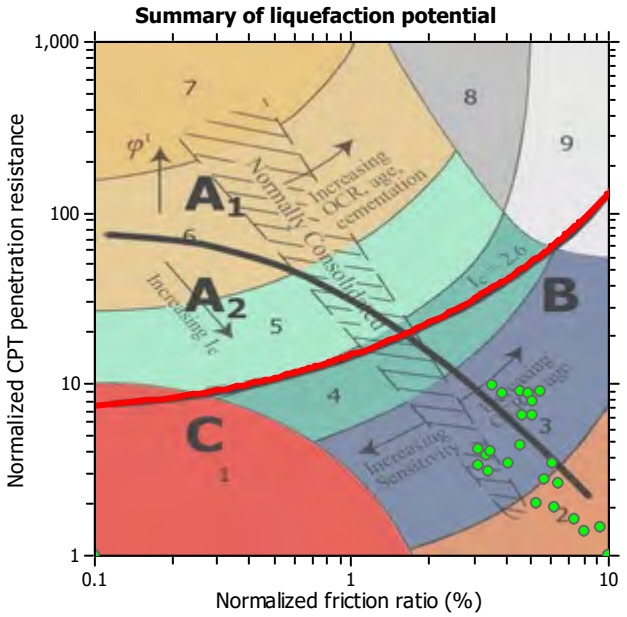
CPT file : SP167

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

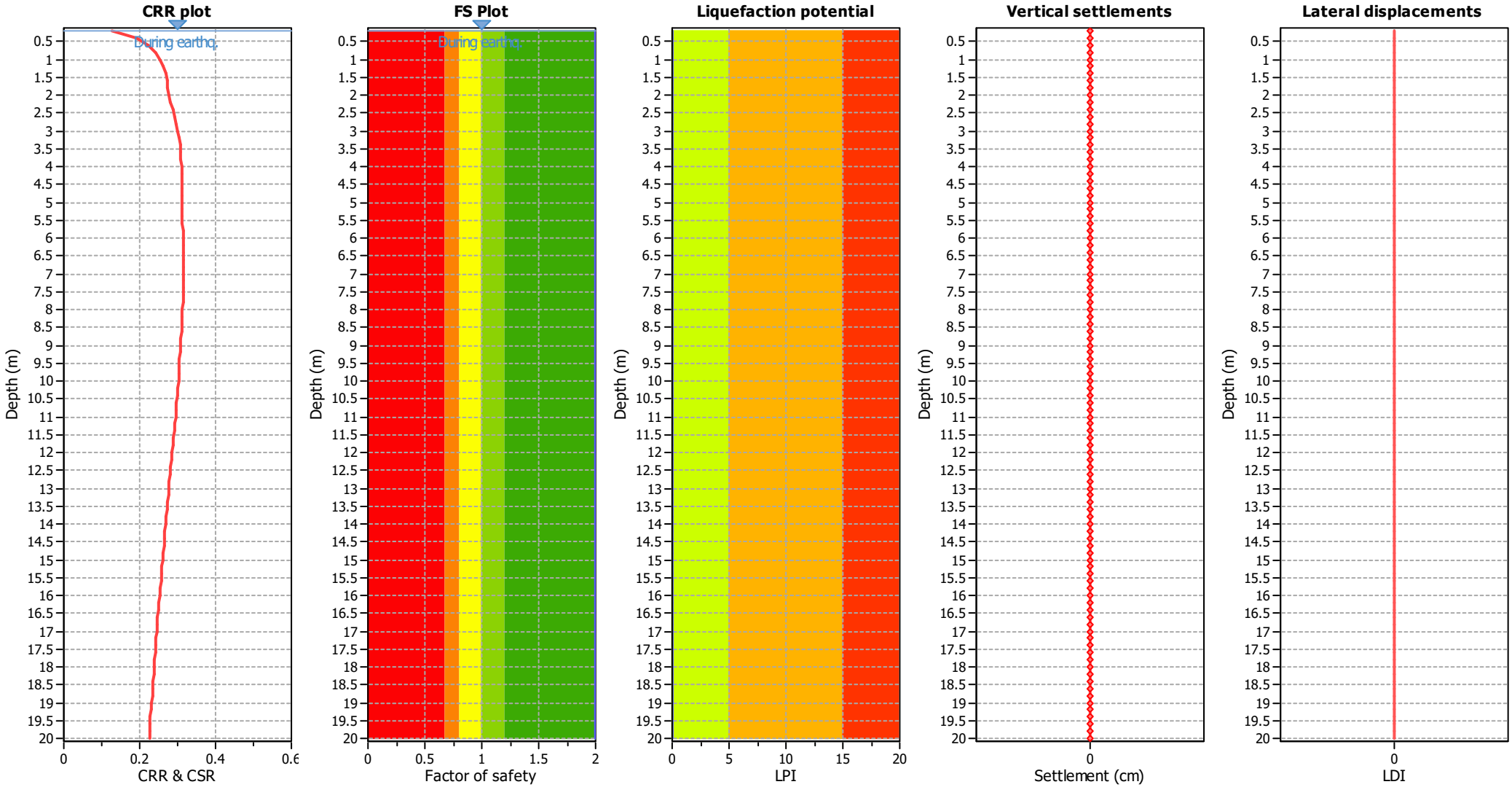






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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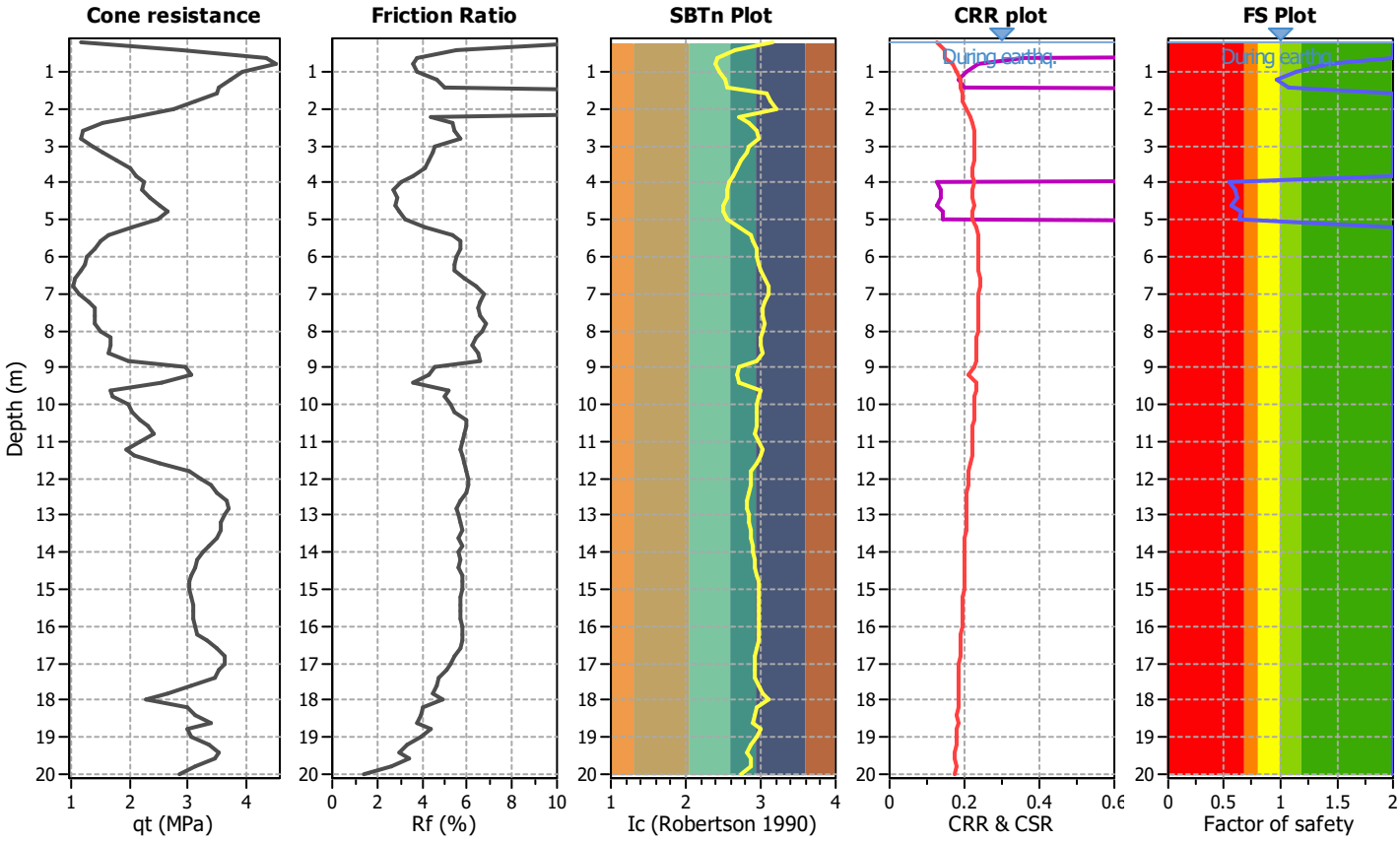
LIQUEFACTION ANALYSIS REPORT

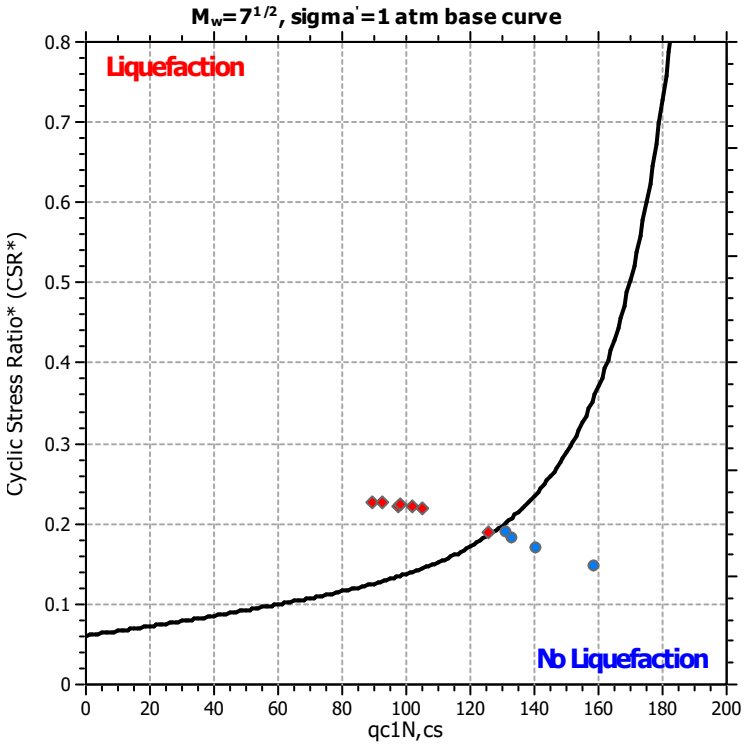
Project title : **Location :**

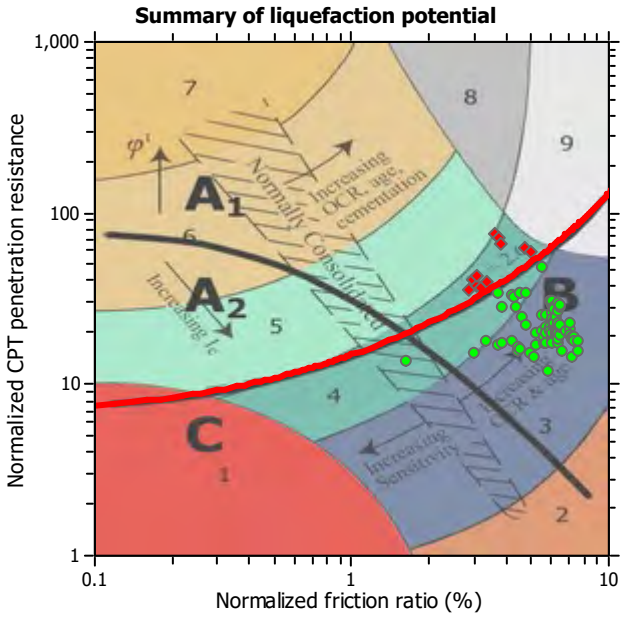
CPT file : SP168

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

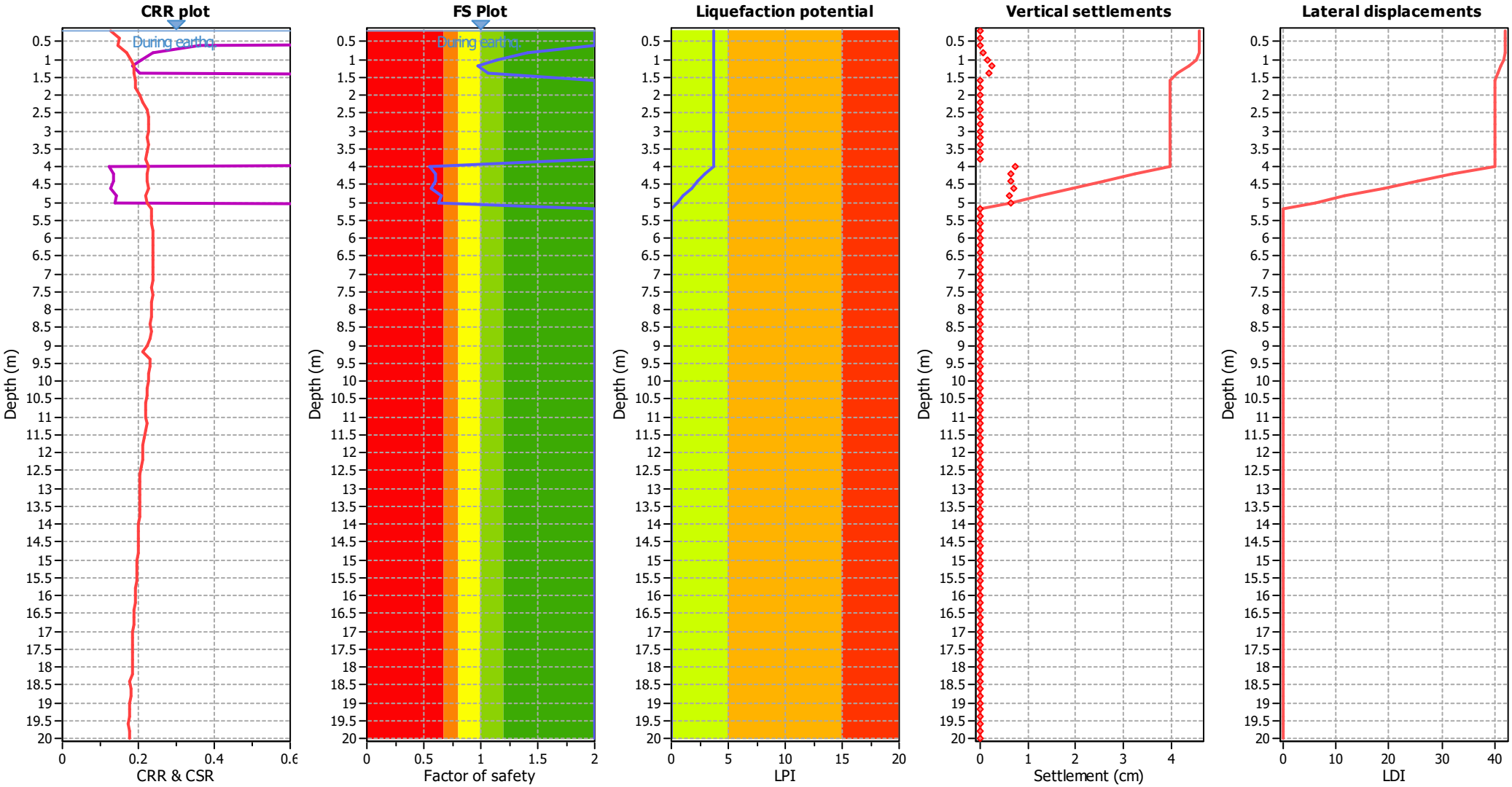






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	1.42	0.00	0.00	0.20	0.00
1.00	1.14	0.00	0.00	0.20	0.00	1.20	0.97	0.00	0.00	0.20	0.05
1.40	1.06	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.55	0.45	0.54	0.20	0.72
4.20	0.60	0.40	0.64	0.20	0.63	4.40	0.61	0.39	0.64	0.20	0.61
4.60	0.56	0.44	0.56	0.20	0.67	4.80	0.66	0.00	0.00	0.20	0.52
5.00	0.63	0.37	0.69	0.20	0.56	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.77

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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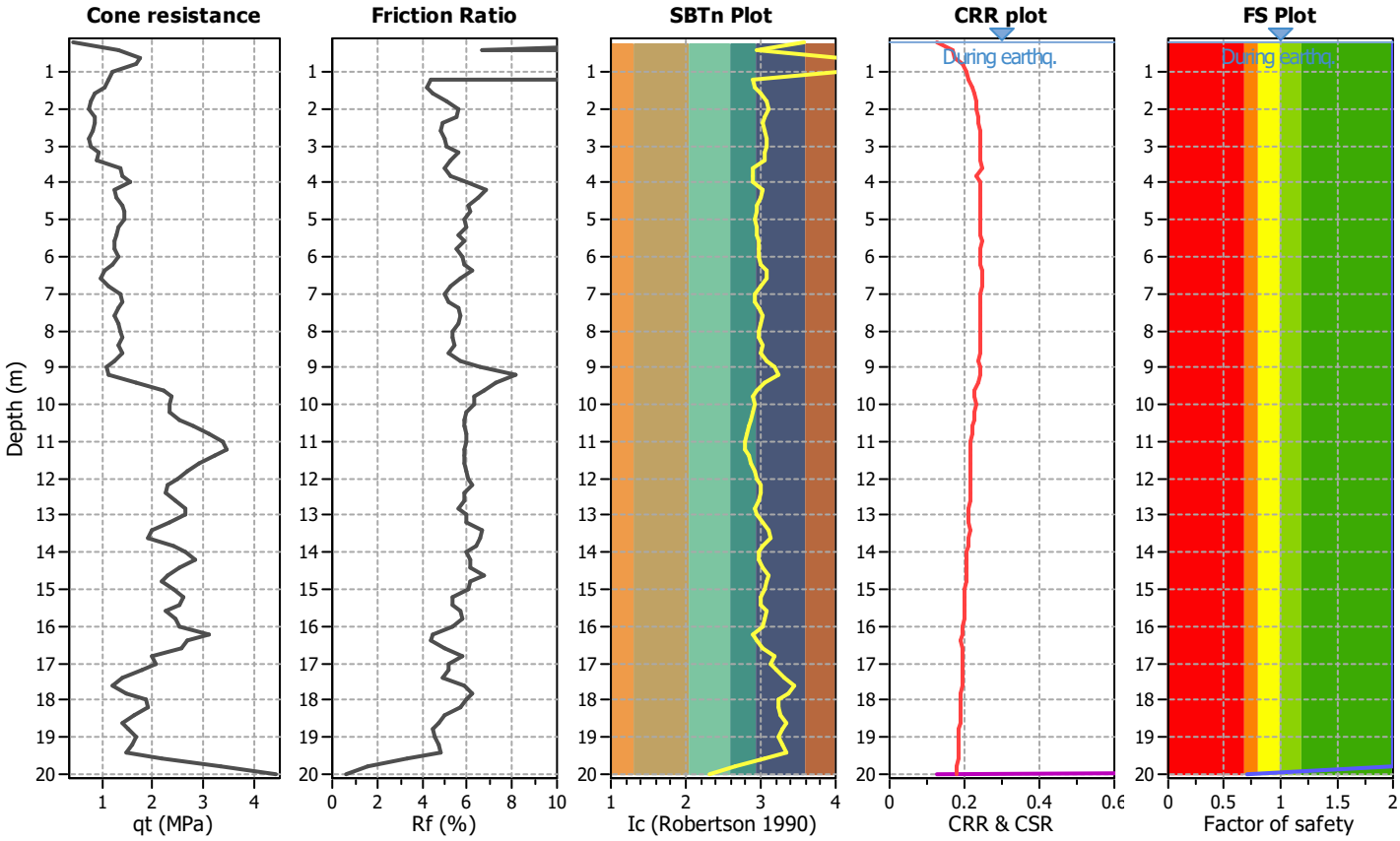
LIQUEFACTION ANALYSIS REPORT

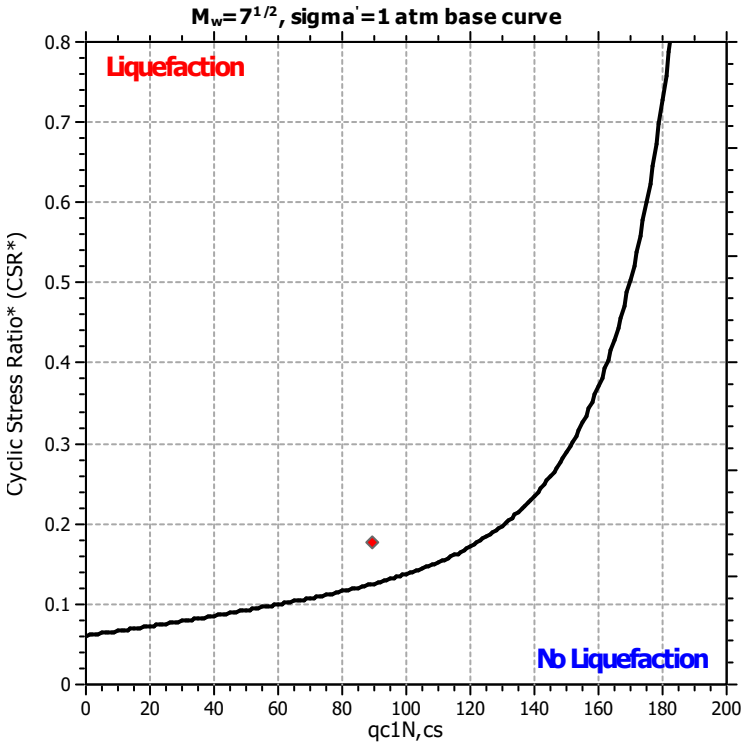
Project title : **Location :**

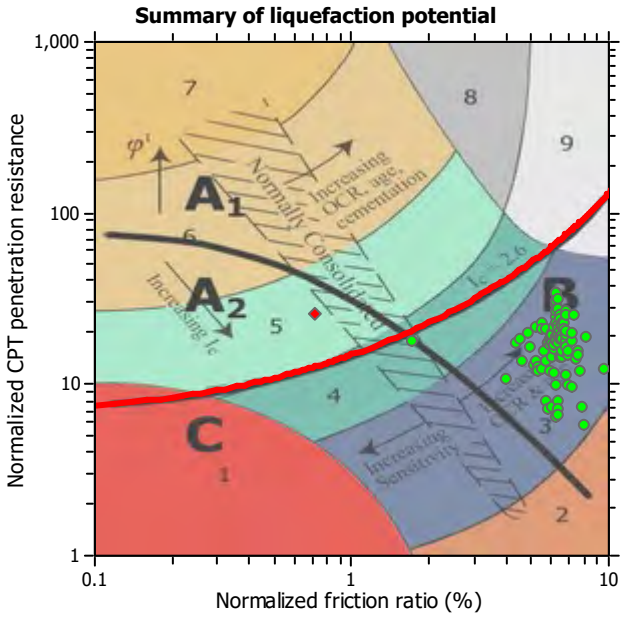
CPT file : SP169

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

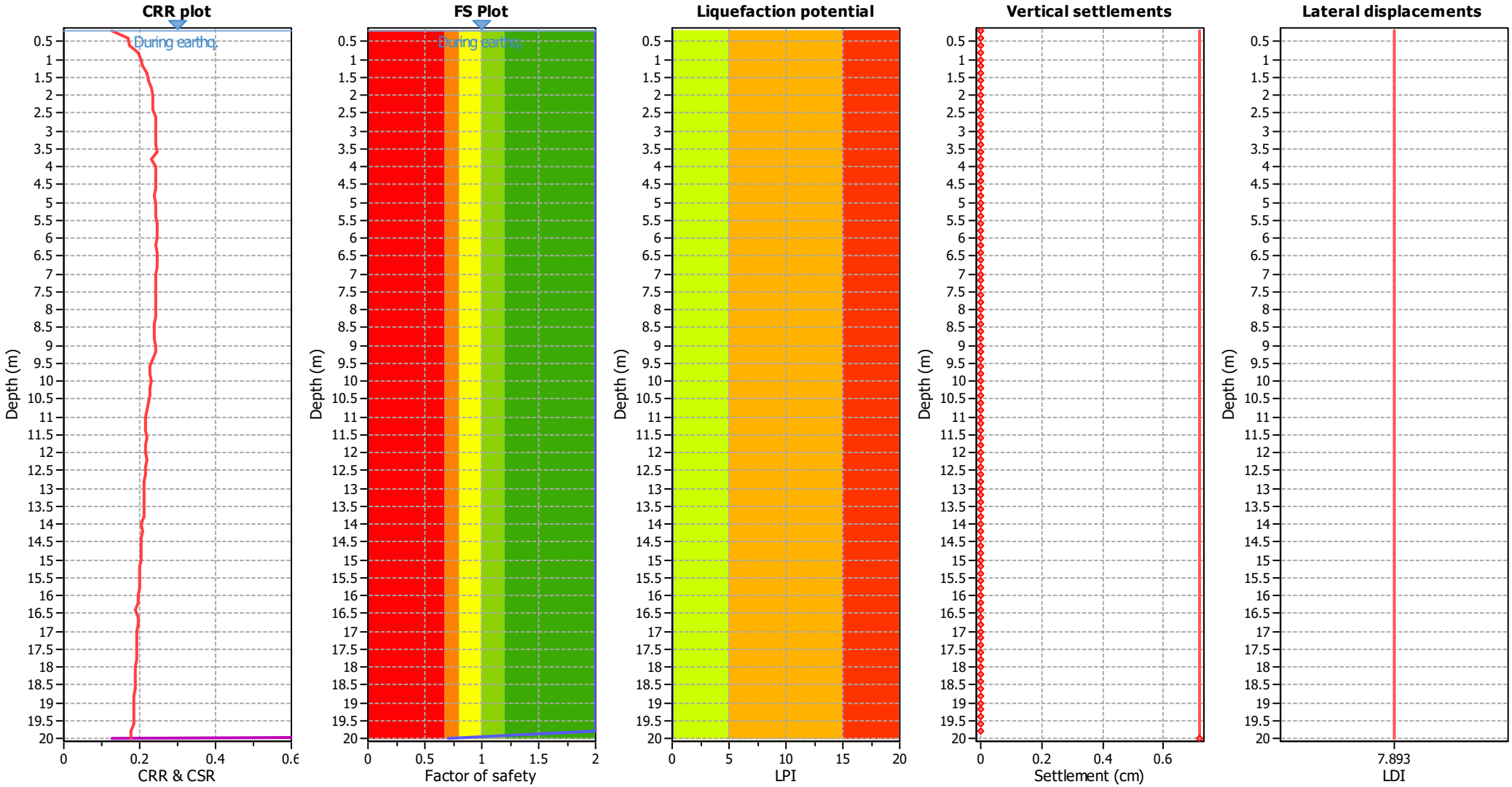






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	0.71	0.29	0.96	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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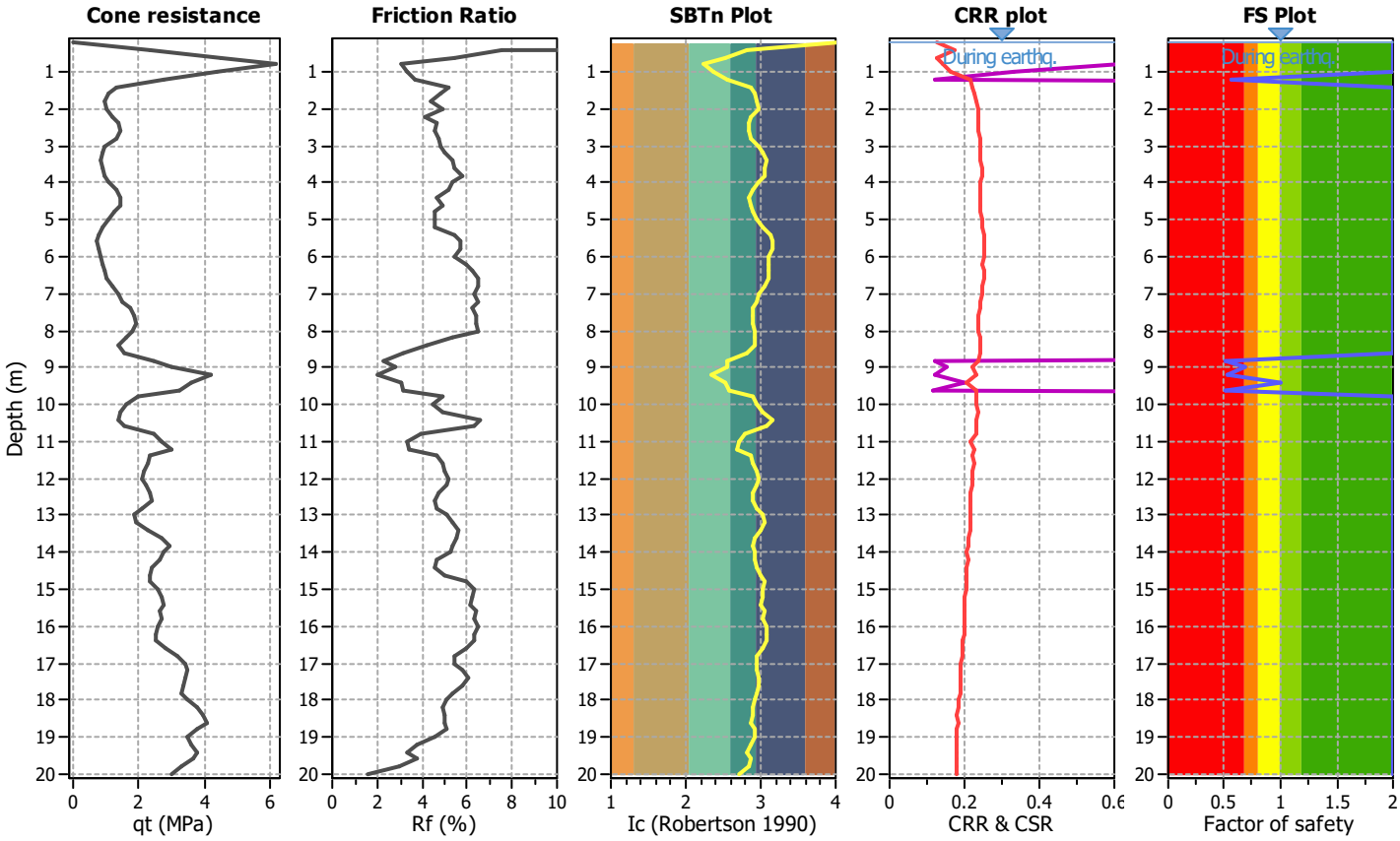
LIQUEFACTION ANALYSIS REPORT

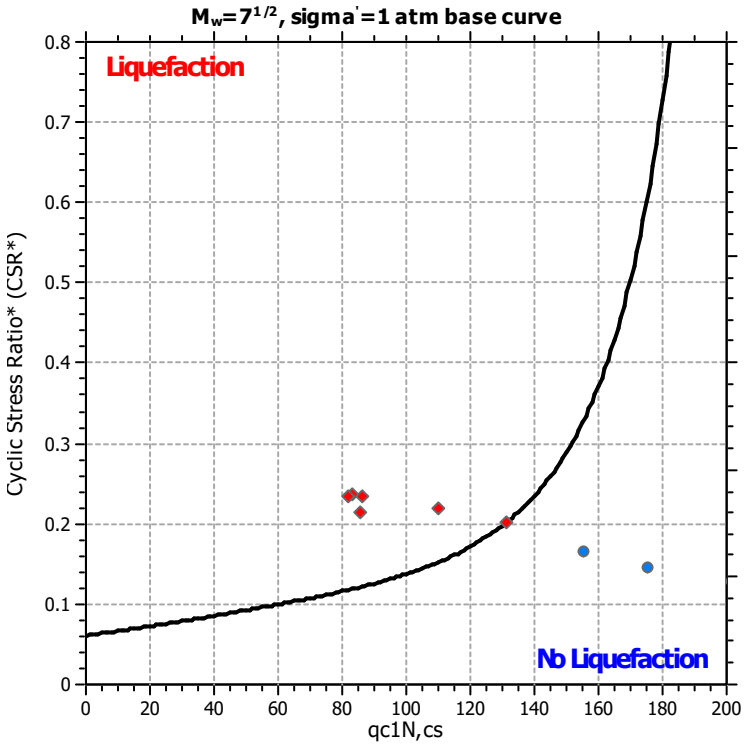
Project title : **Location :**

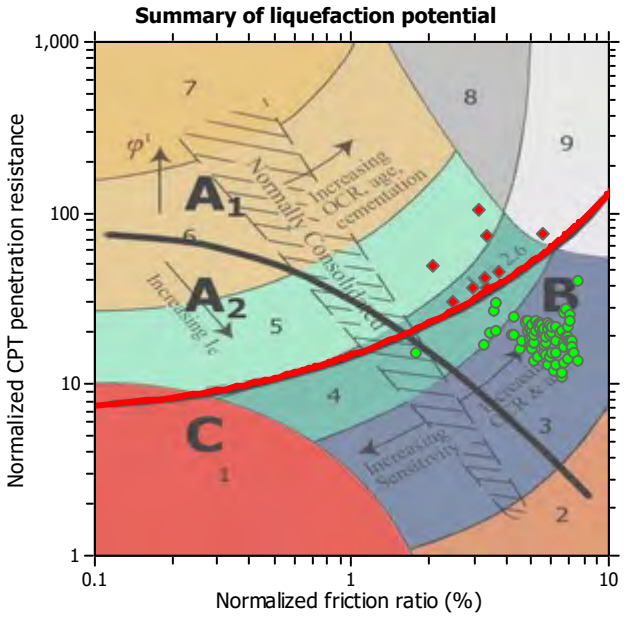
CPT file : SP174

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

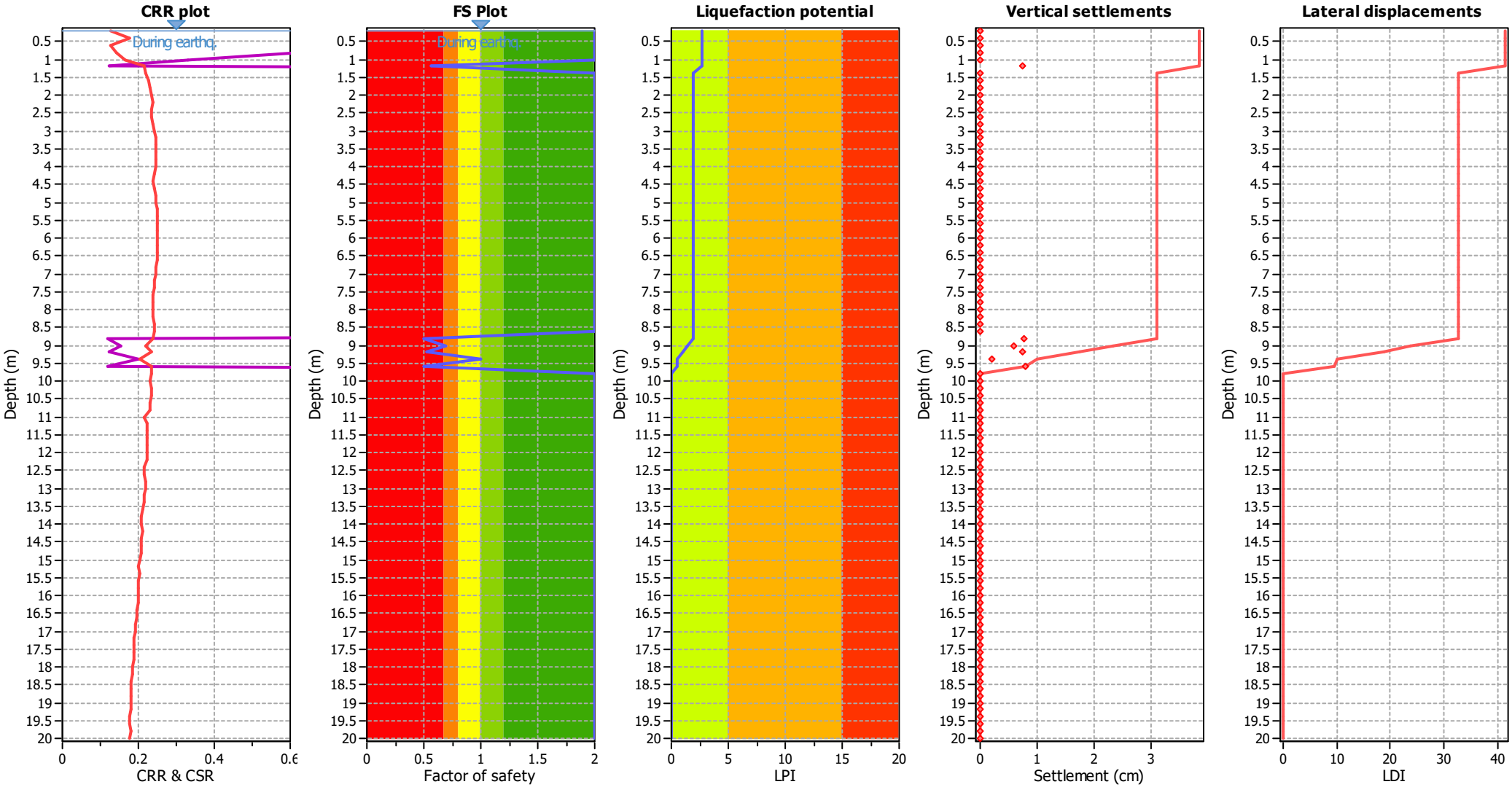






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	0.57	0.00	0.00	0.20	0.81
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	0.50	0.00	0.00	0.20	0.56
9.00	0.69	0.00	0.00	0.20	0.34	9.20	0.52	0.00	0.00	0.20	0.51
9.40	0.99	0.00	0.00	0.20	0.01	9.60	0.50	0.00	0.00	0.20	0.52
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.75

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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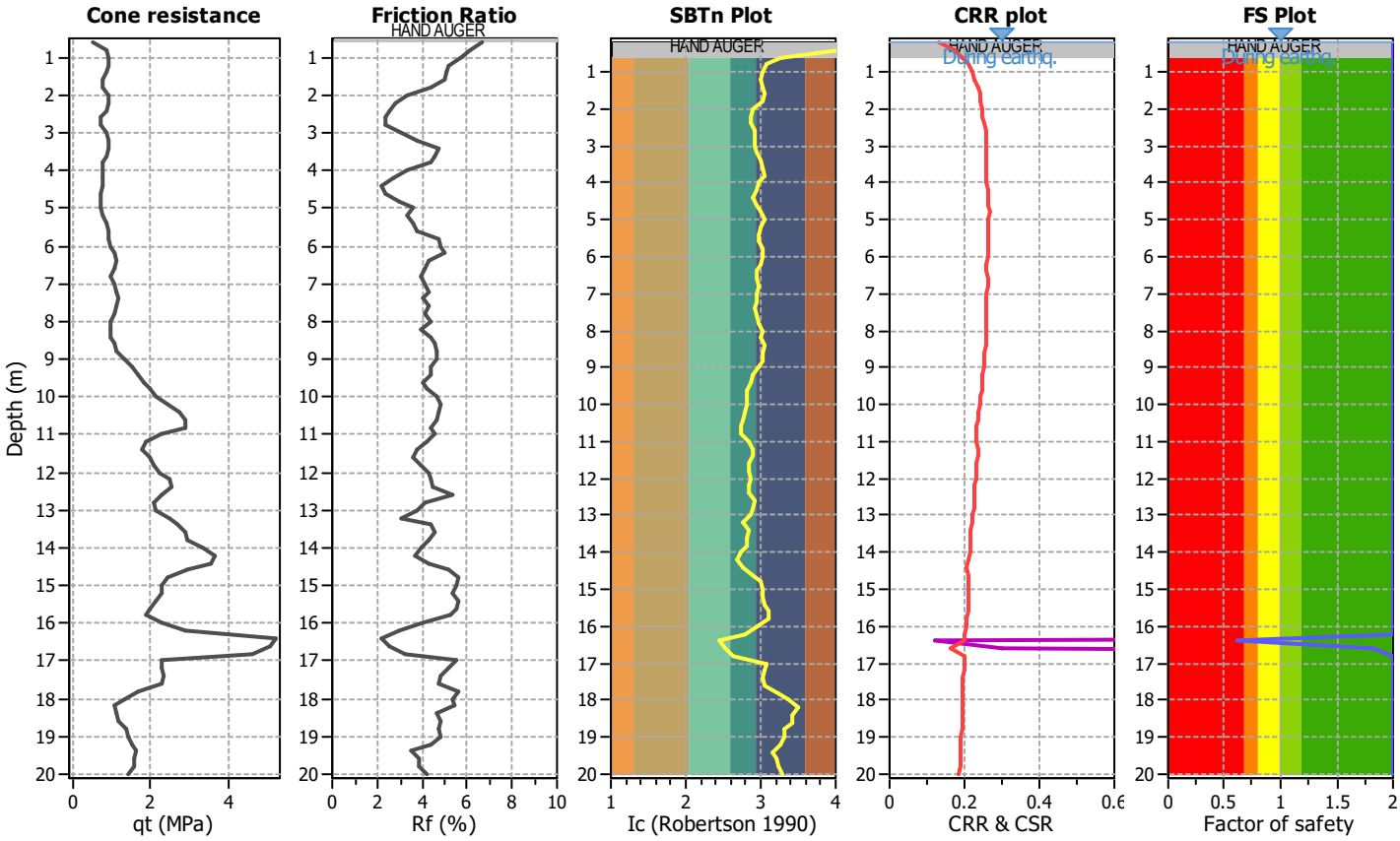
LIQUEFACTION ANALYSIS REPORT

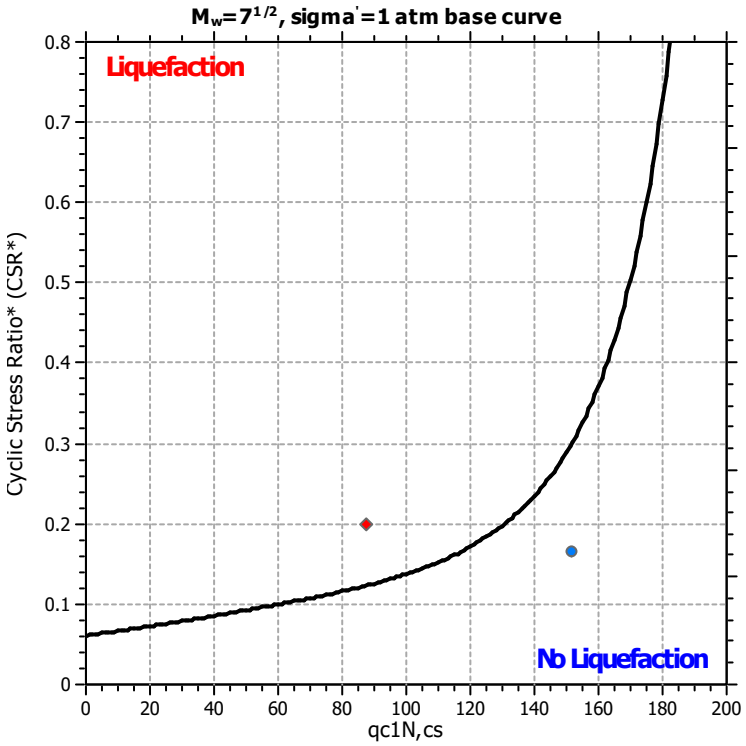
Project title : **Location :**

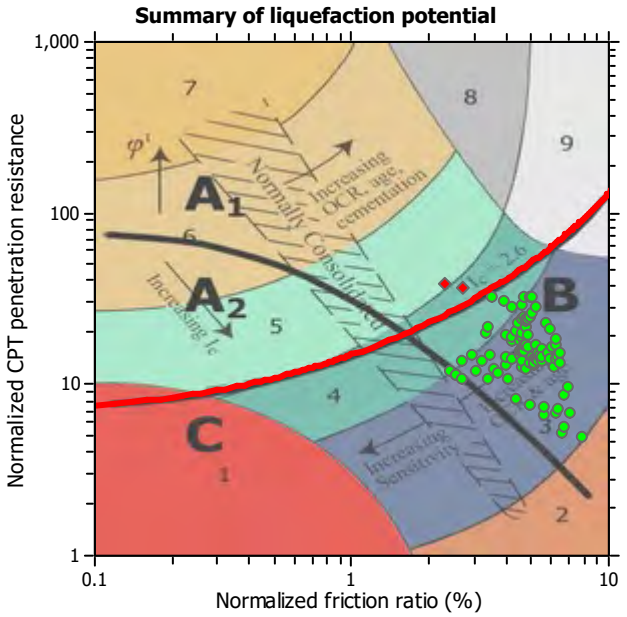
CPT file : SP176

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

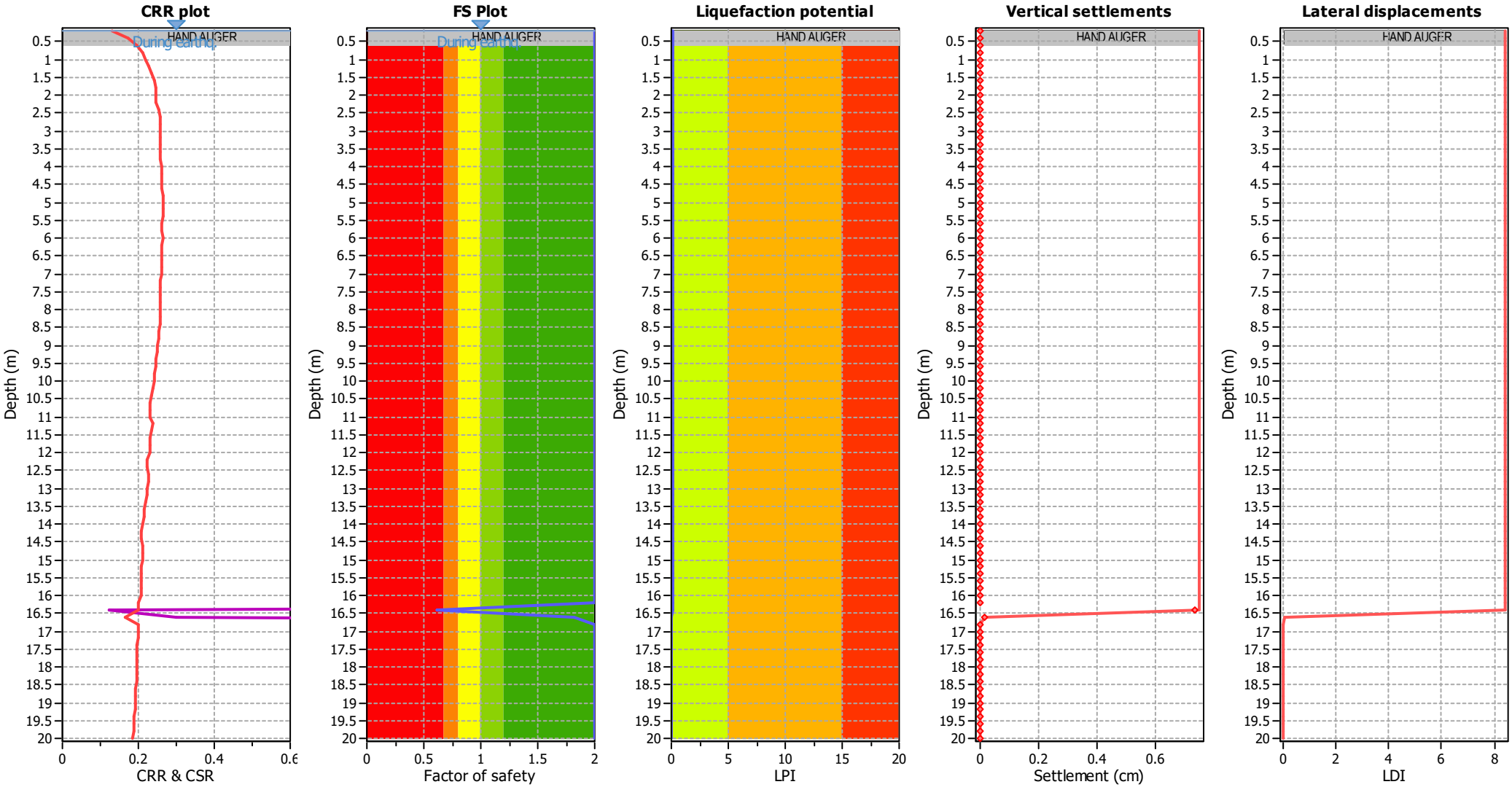






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	0.61	0.39	0.66	0.20	0.14
16.60	1.83	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.14

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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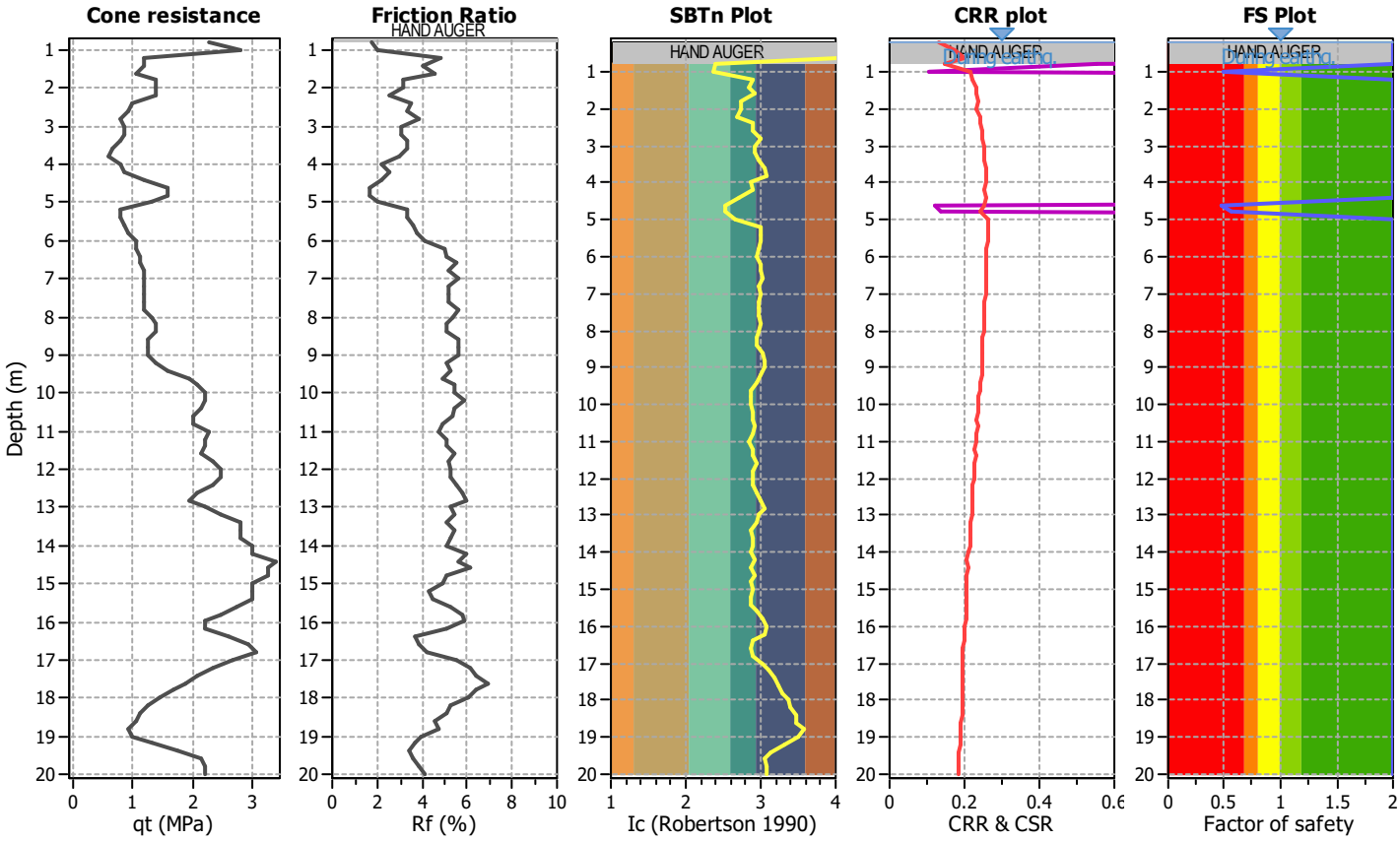
LIQUEFACTION ANALYSIS REPORT

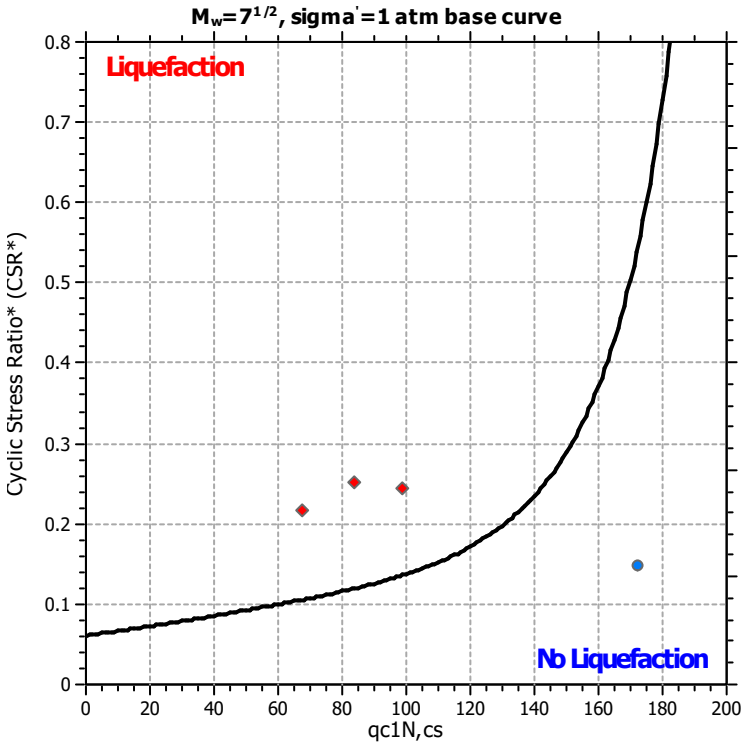
Project title : **Location :**

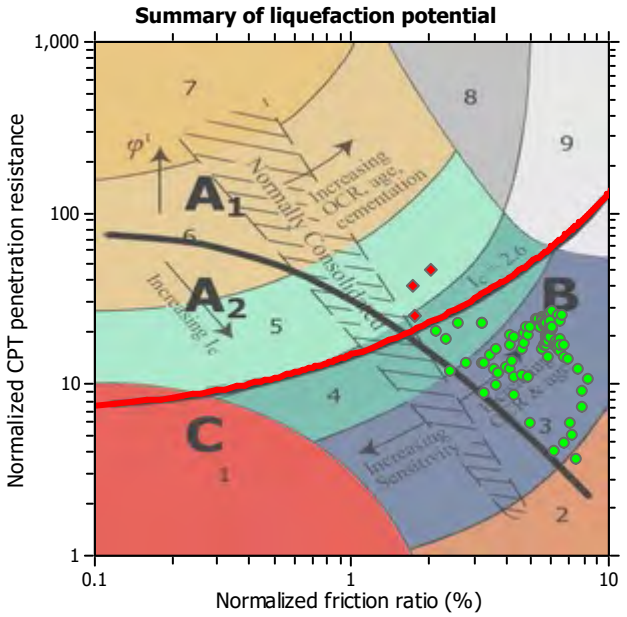
CPT file : SP177

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

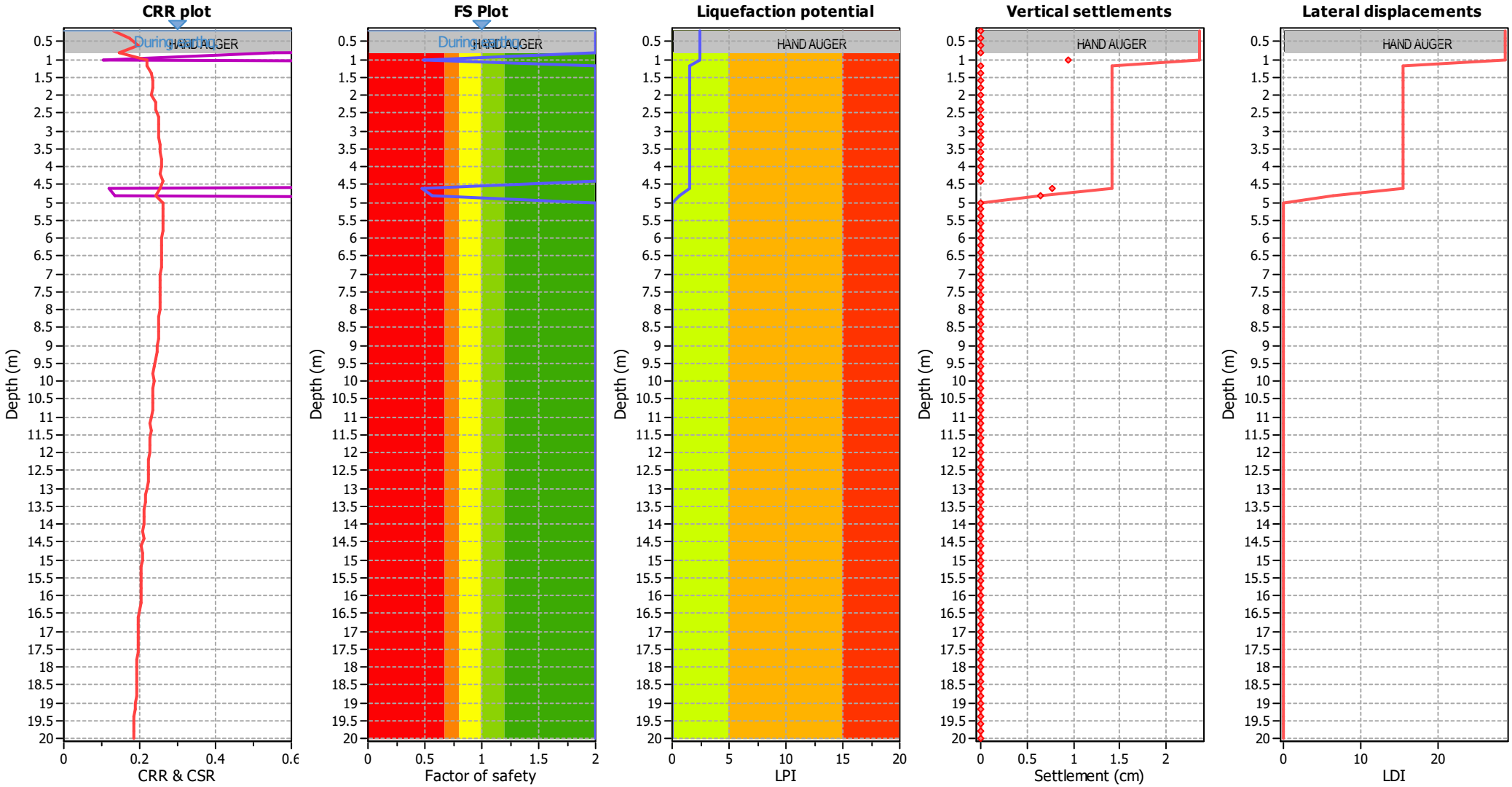






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.48	0.52	0.46	0.20	0.98	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	0.47	0.53	0.45	0.20	0.81	4.80	0.56	0.44	0.56	0.20	0.67
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.46

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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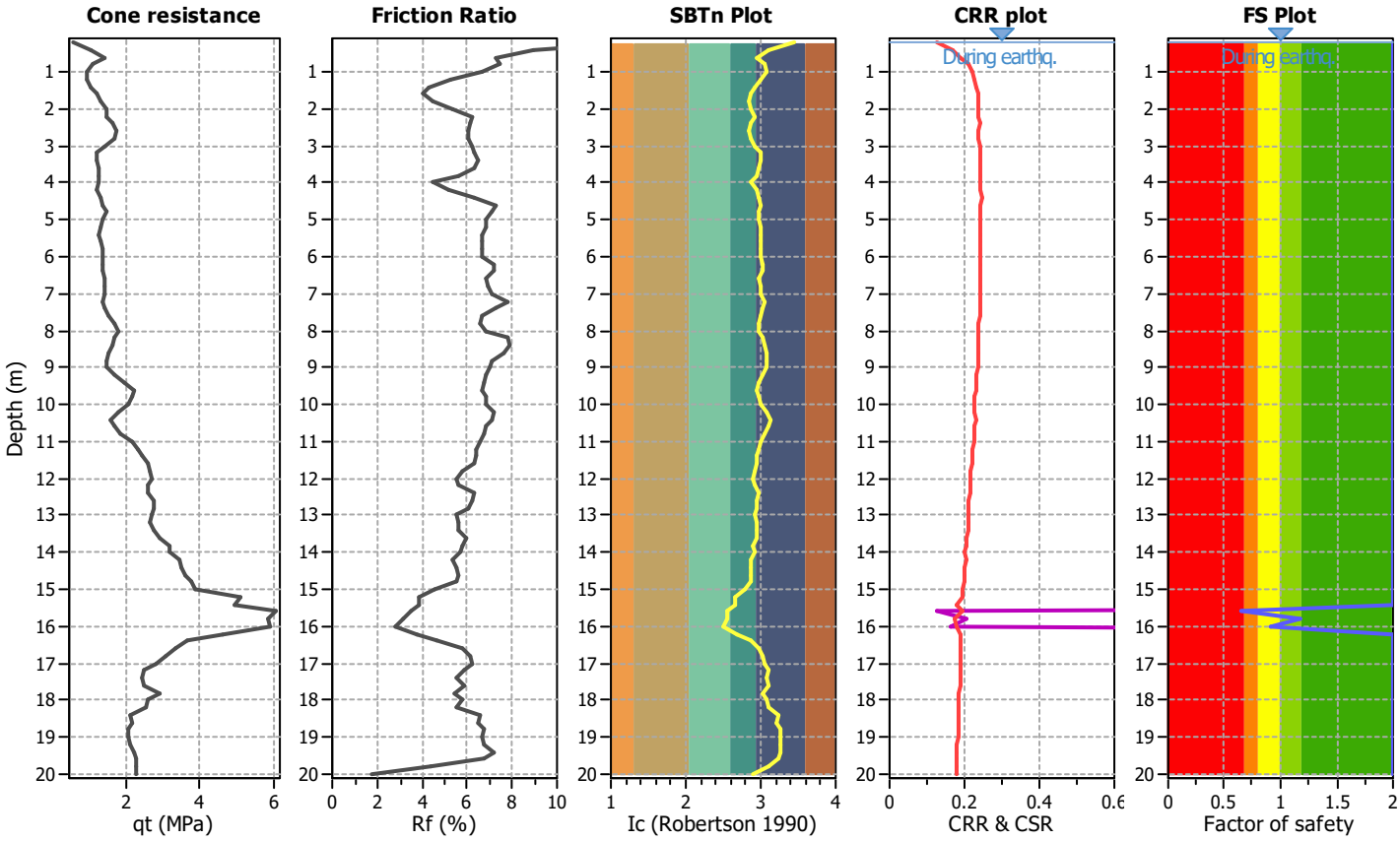
LIQUEFACTION ANALYSIS REPORT

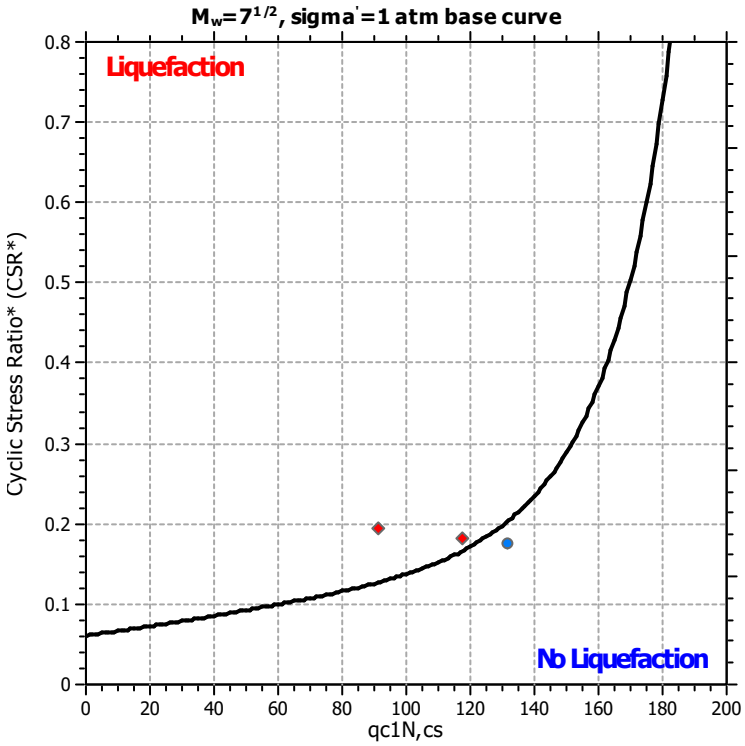
Project title : **Location :**

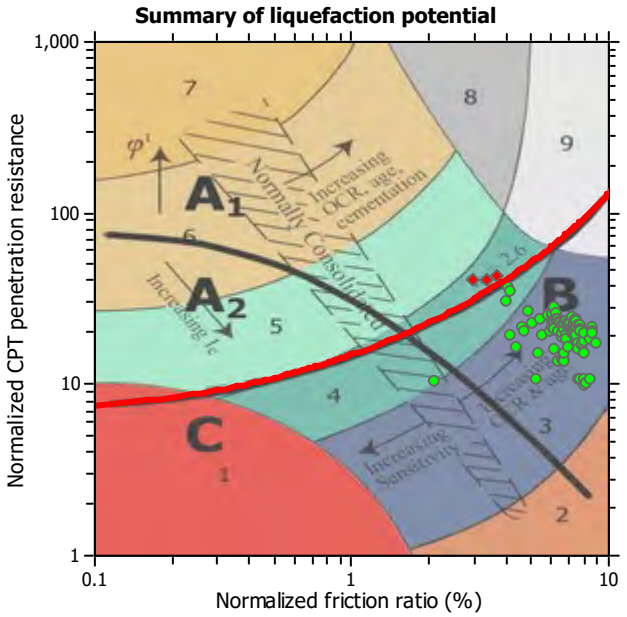
CPT file : SP178

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

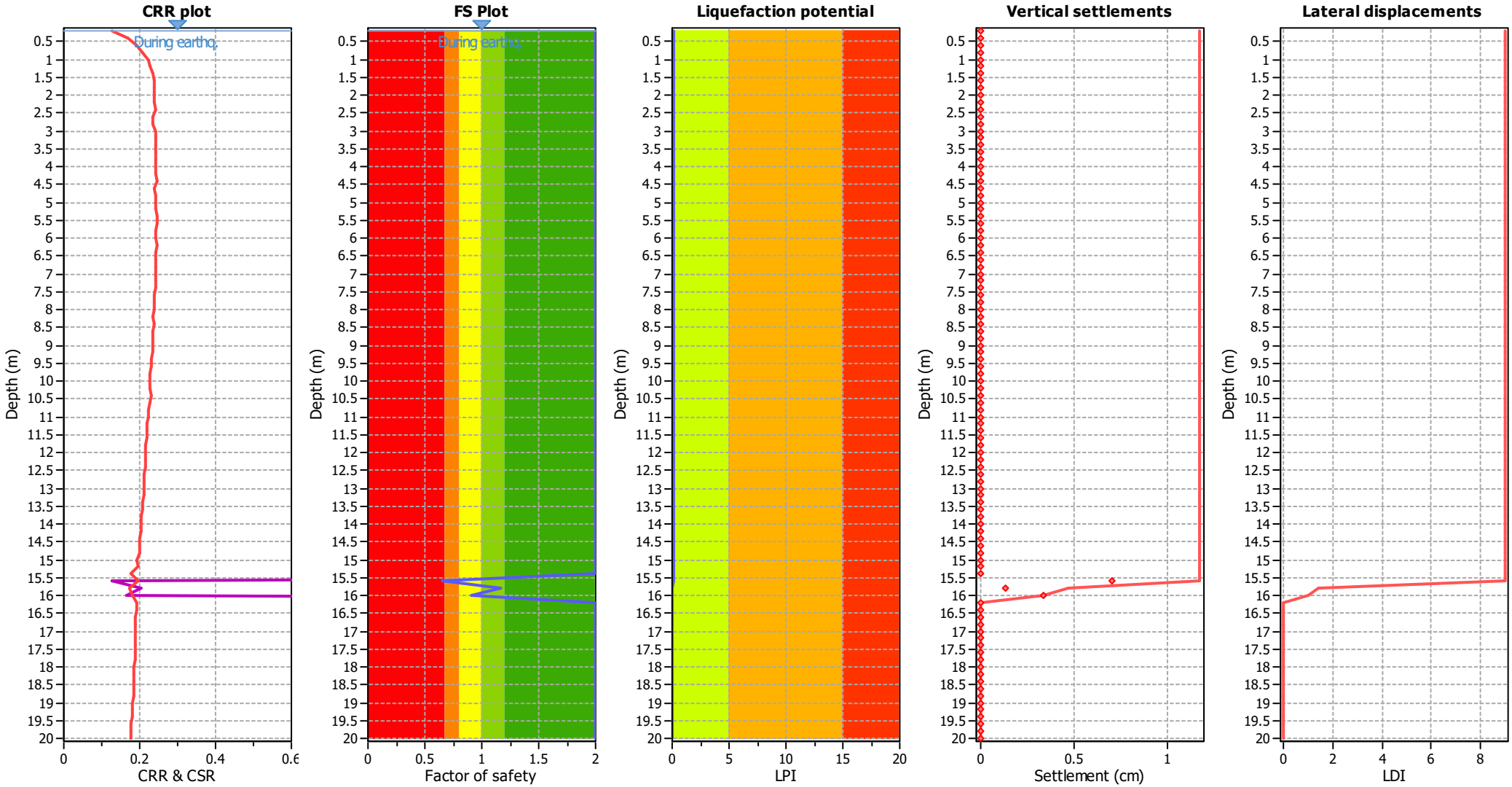






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	0.65	0.35	0.76	0.20	0.15
15.80	1.17	0.00	0.00	0.20	0.00	16.00	0.91	0.09	8.34	0.20	0.04
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.19

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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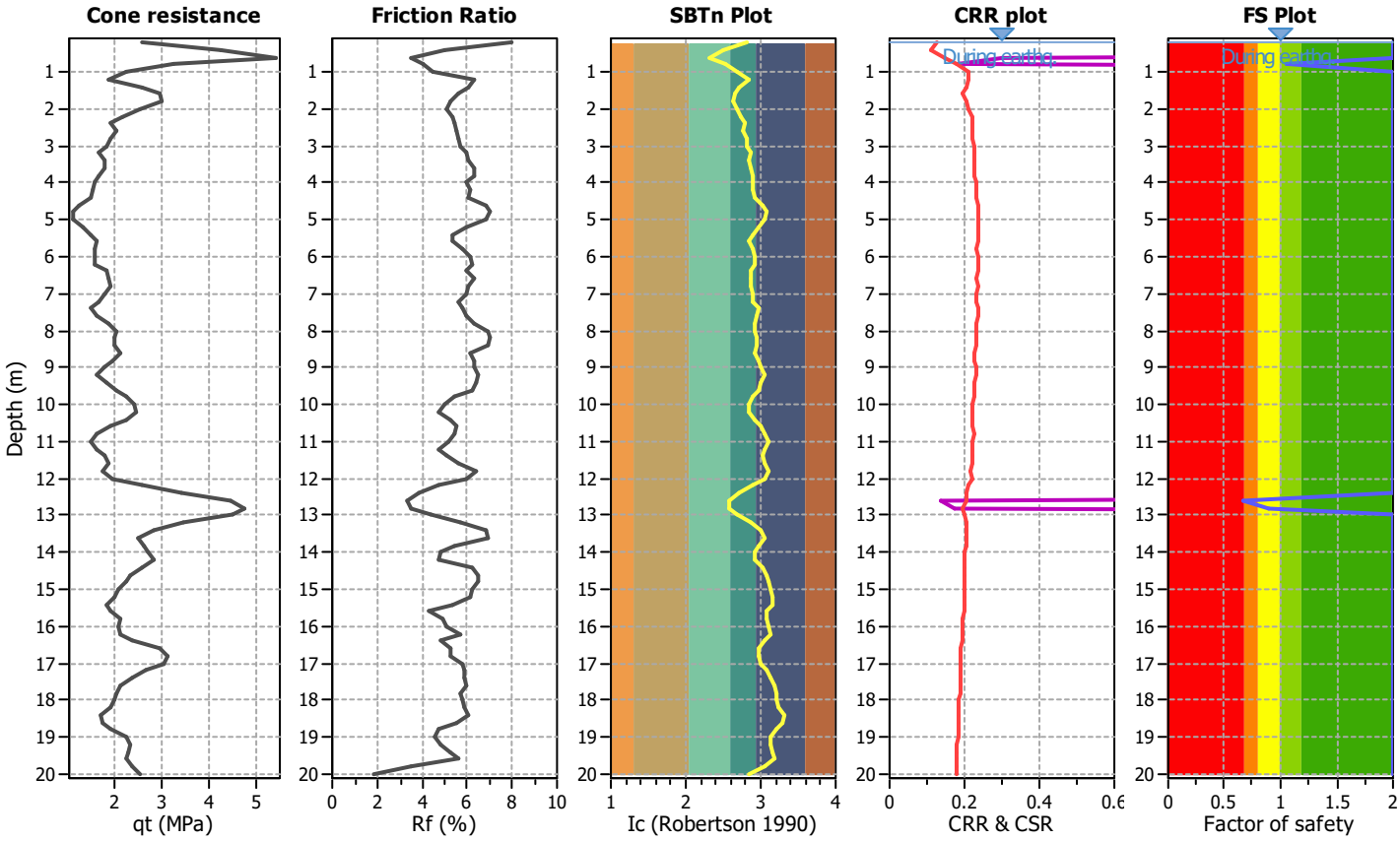
LIQUEFACTION ANALYSIS REPORT

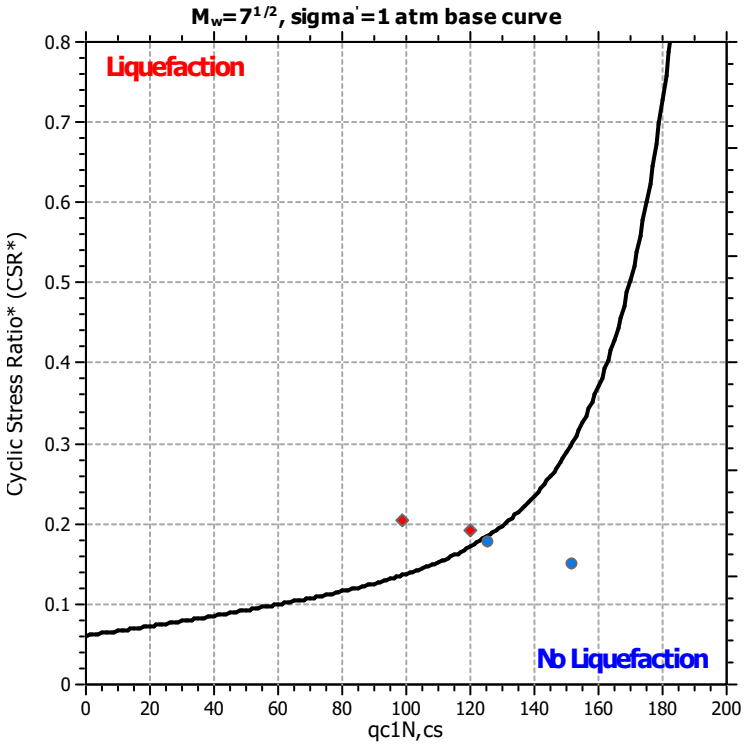
Project title : **Location :**

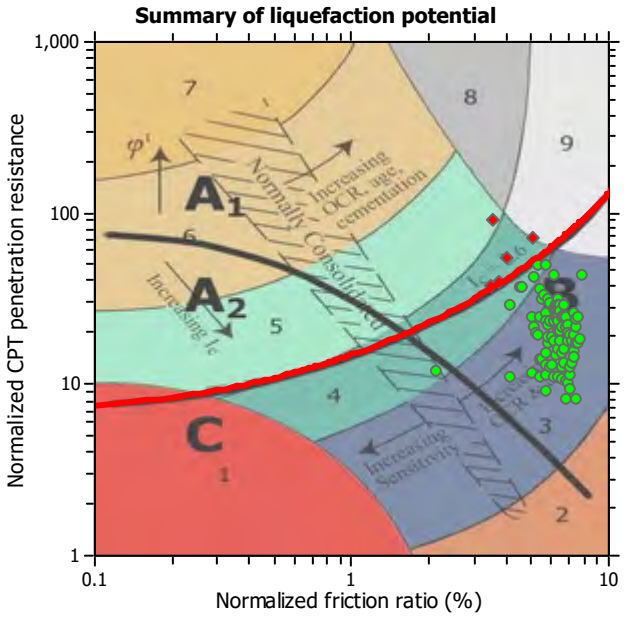
CPT file : SP180

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

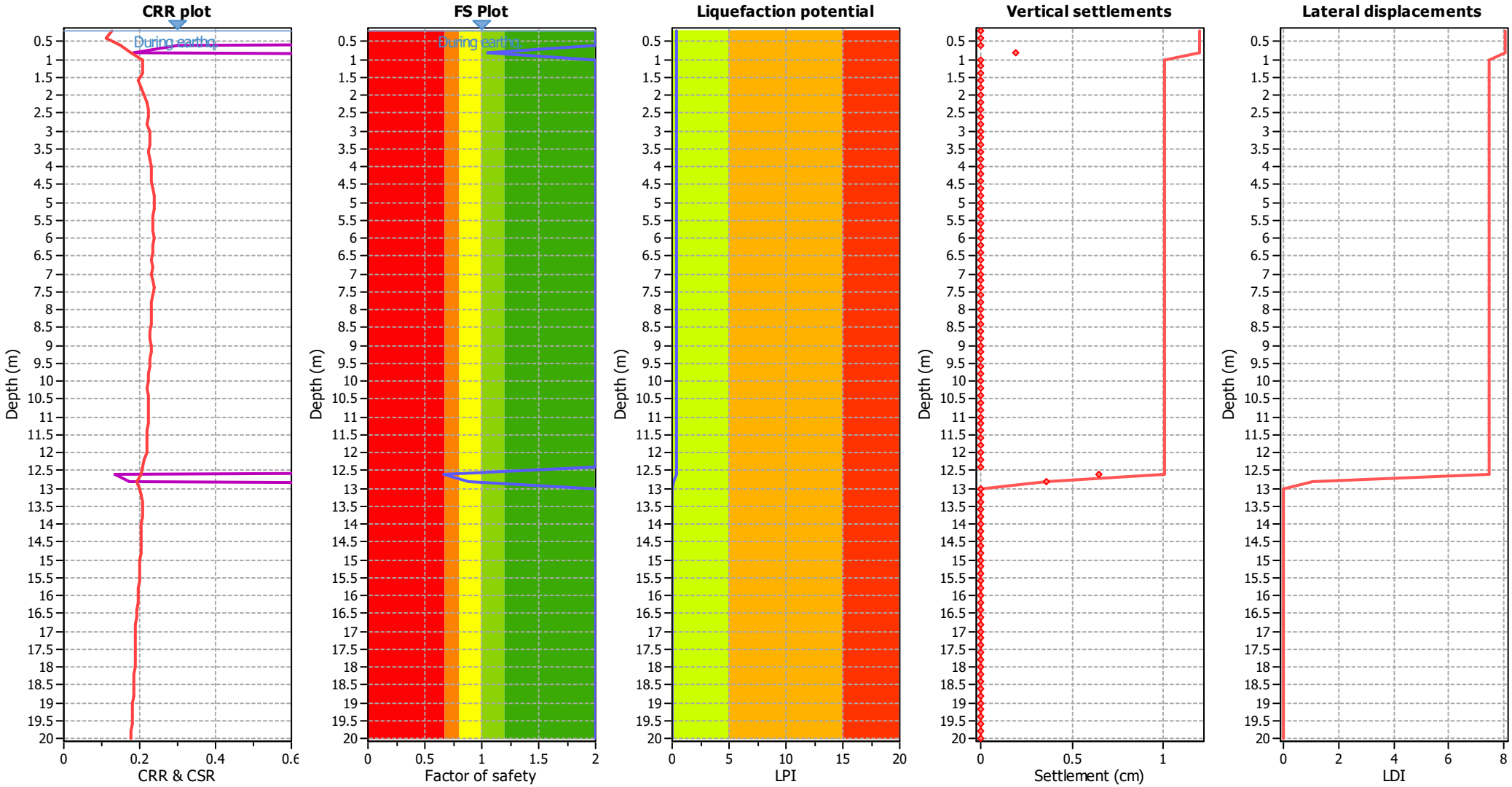






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	1.05	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	0.66	0.34	0.79	0.20	0.25	12.80	0.89	0.11	4.88	0.20	0.08
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.33

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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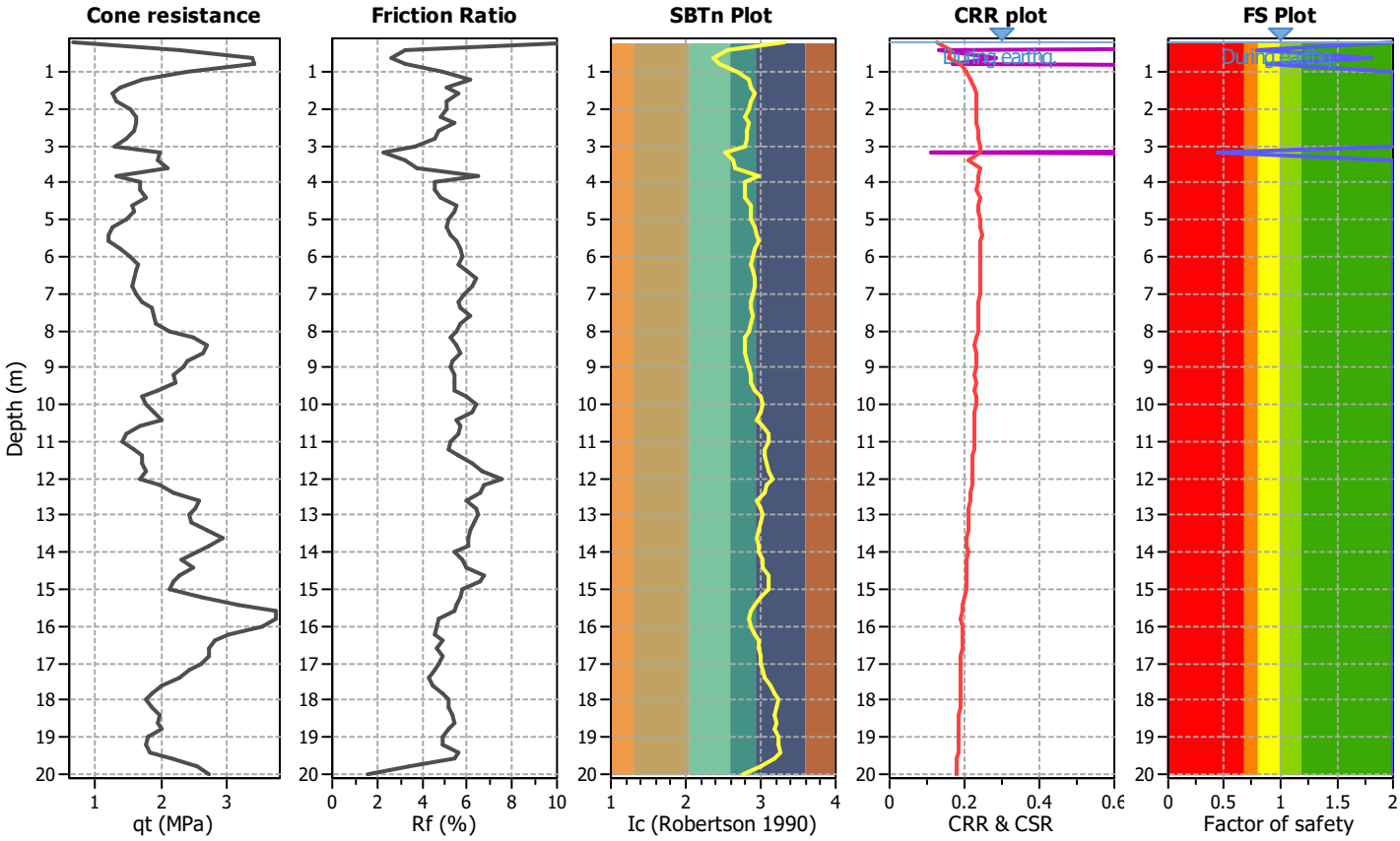
LIQUEFACTION ANALYSIS REPORT

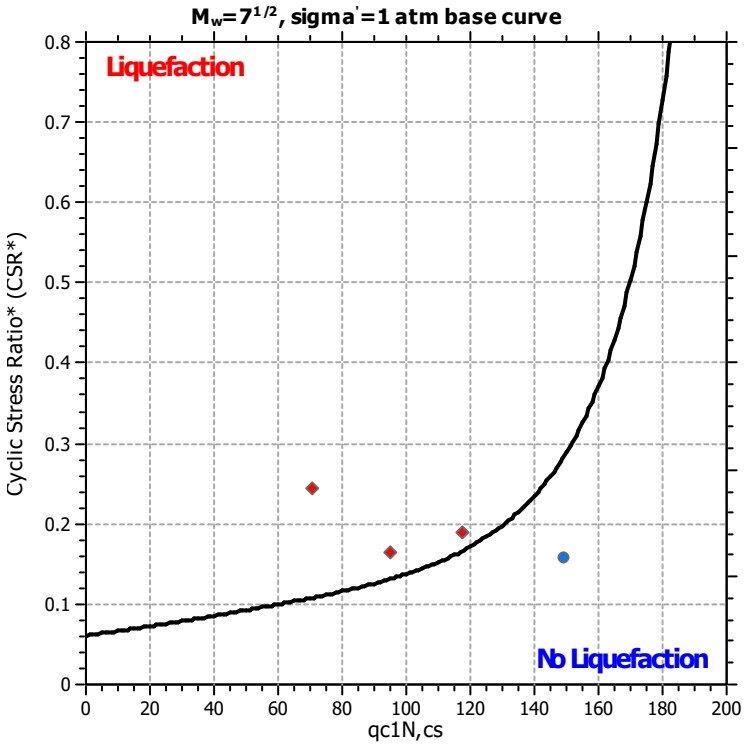
Project title : **Location :**

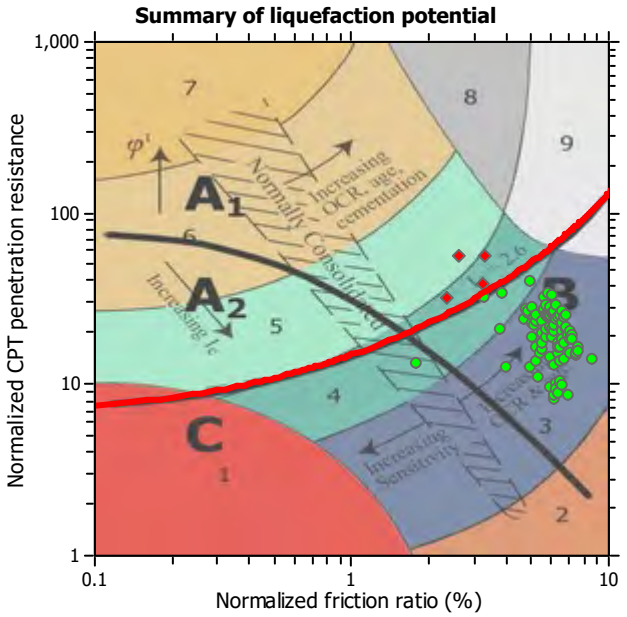
CPT file : SP181

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

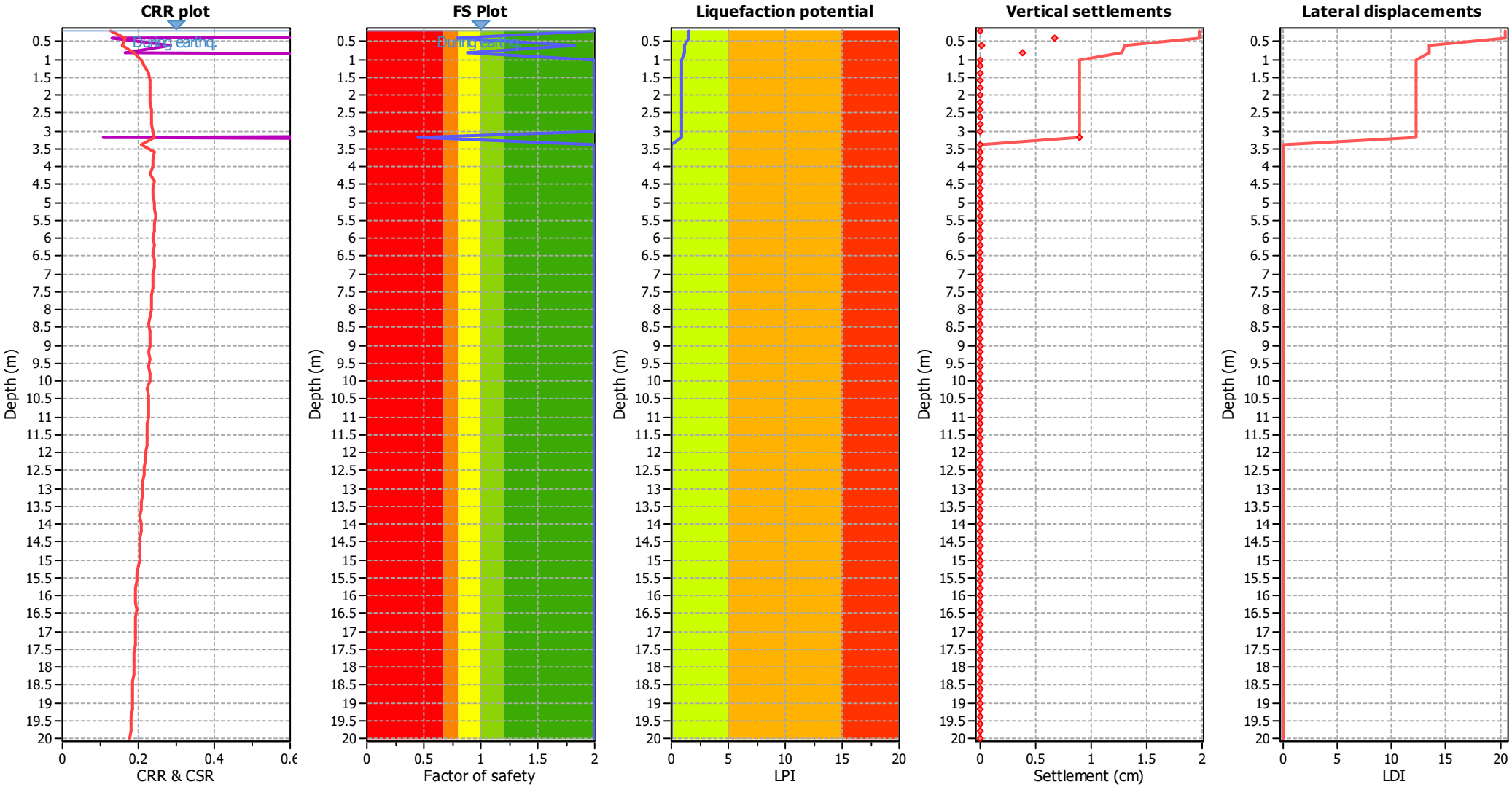






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	0.79	0.21	1.55	0.20	0.41
0.60	1.81	0.00	0.00	0.20	0.00	0.80	0.88	0.12	4.35	0.20	0.22
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	0.44	0.56	0.42	0.20	0.93
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.57

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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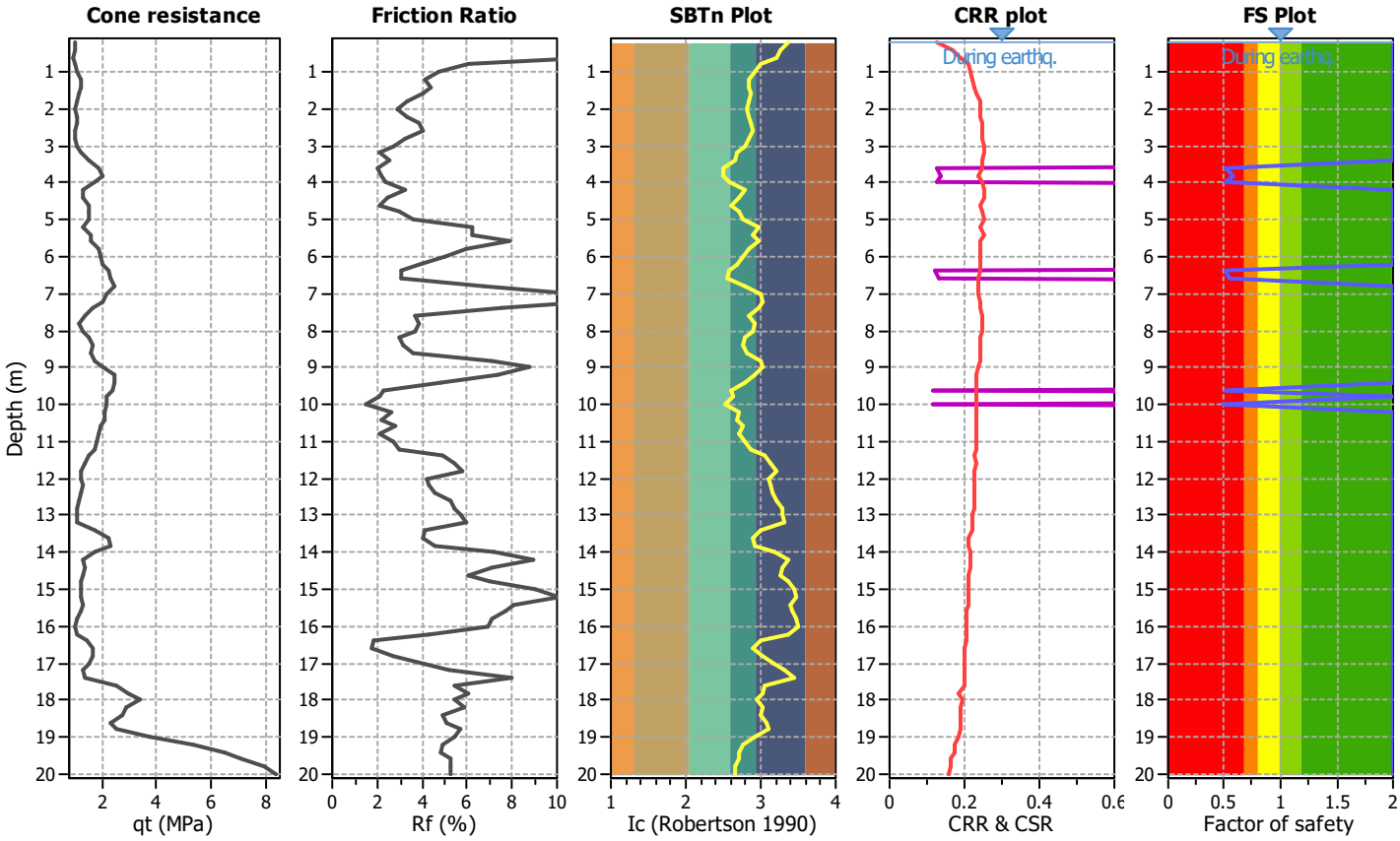
LIQUEFACTION ANALYSIS REPORT

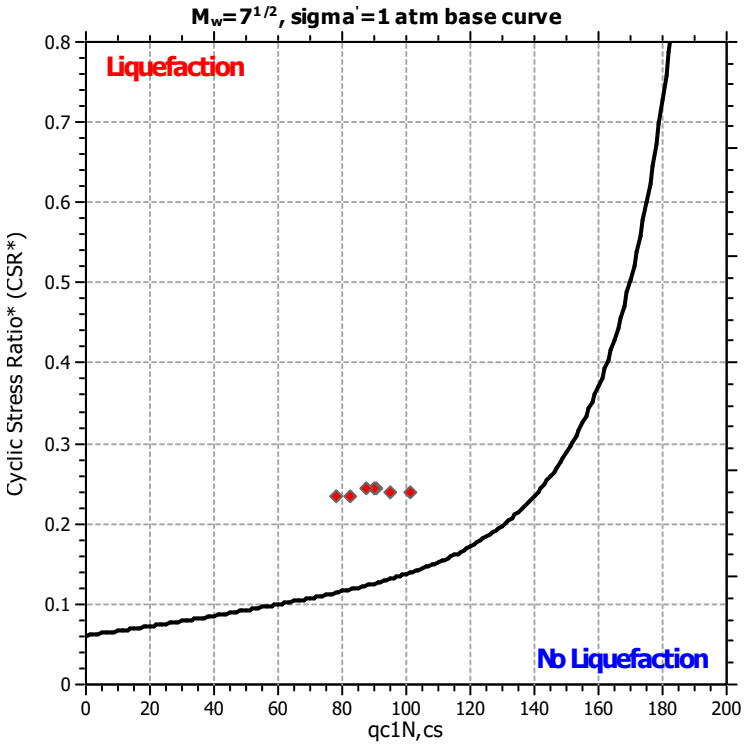
Project title : **Location :**

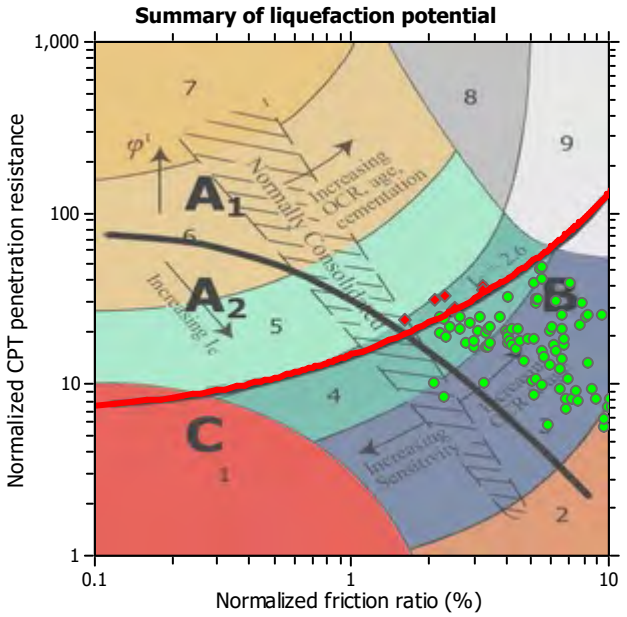
CPT file : SP183

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

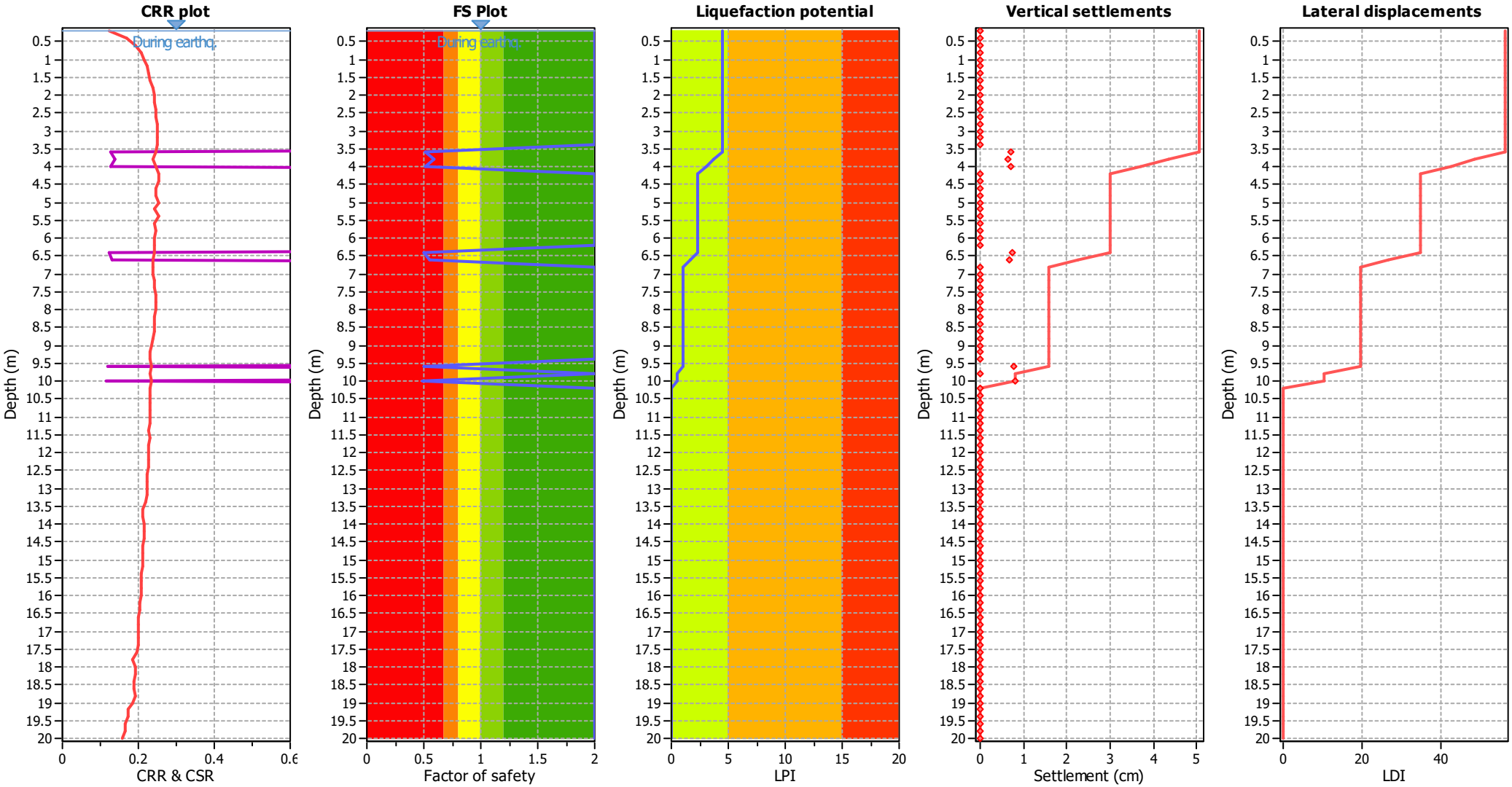






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	0.52	0.48	0.50	0.20	0.79
3.80	0.58	0.42	0.60	0.20	0.67	4.00	0.51	0.49	0.50	0.20	0.78
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	0.51	0.49	0.49	0.20	0.67
6.60	0.55	0.45	0.54	0.20	0.60	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	0.51	0.49	0.49	0.20	0.51
9.80	2.00	0.00	0.00	0.20	0.00	10.00	0.49	0.51	0.47	0.20	0.51
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.55

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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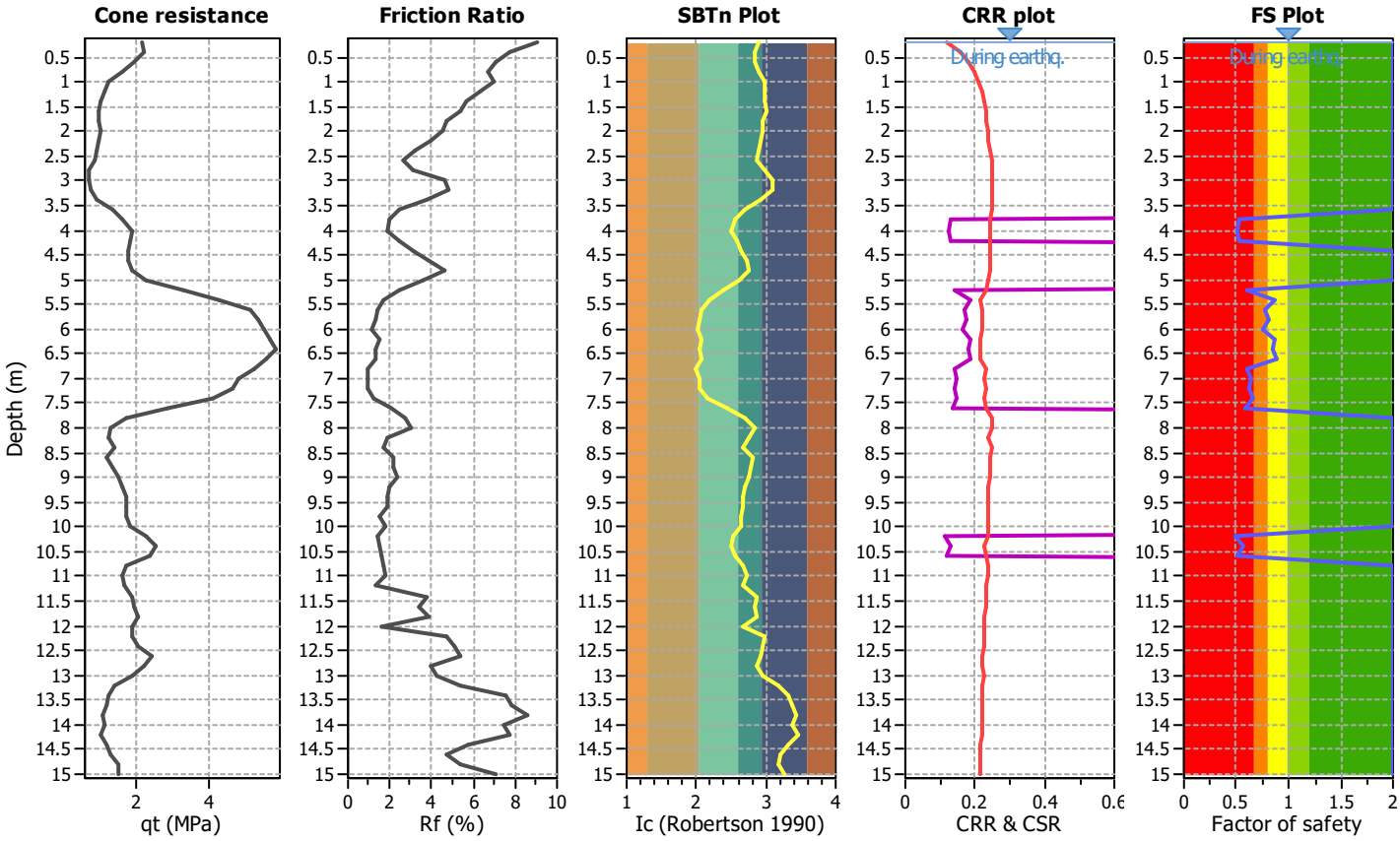
LIQUEFACTION ANALYSIS REPORT

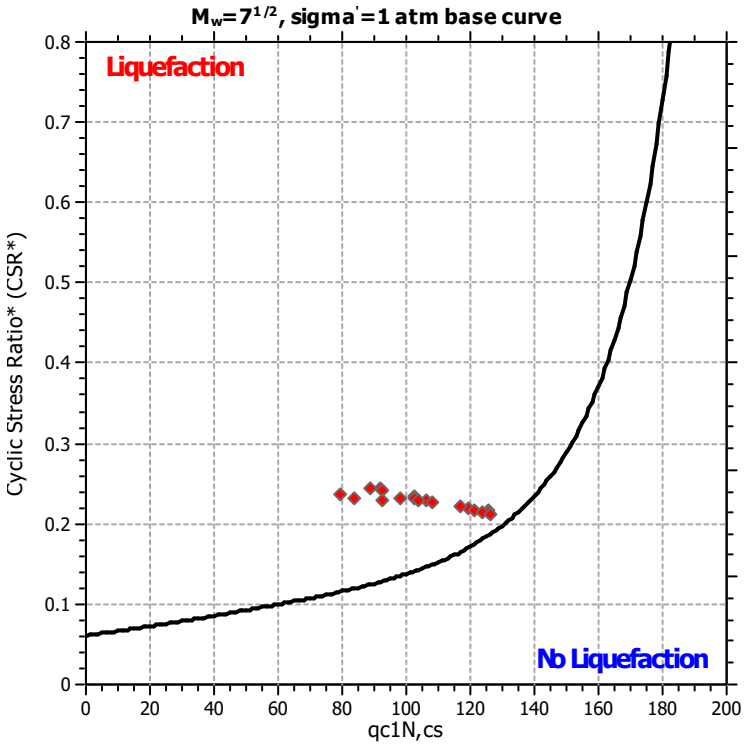
Project title : **Location :**

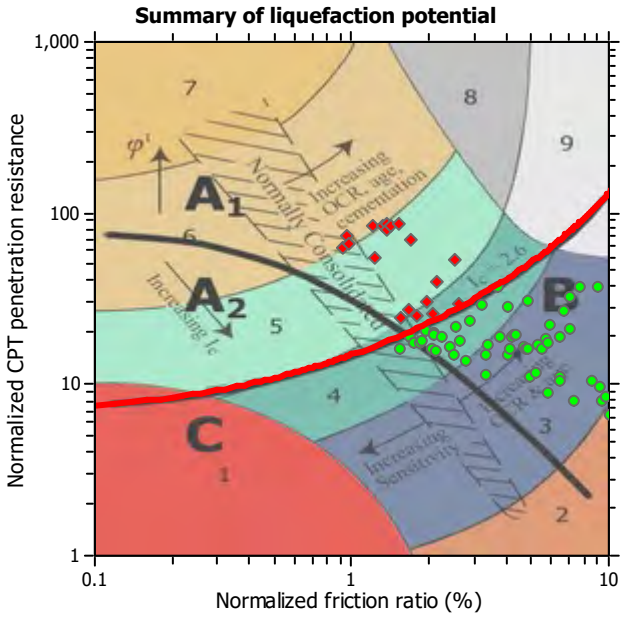
CPT file : SP184

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

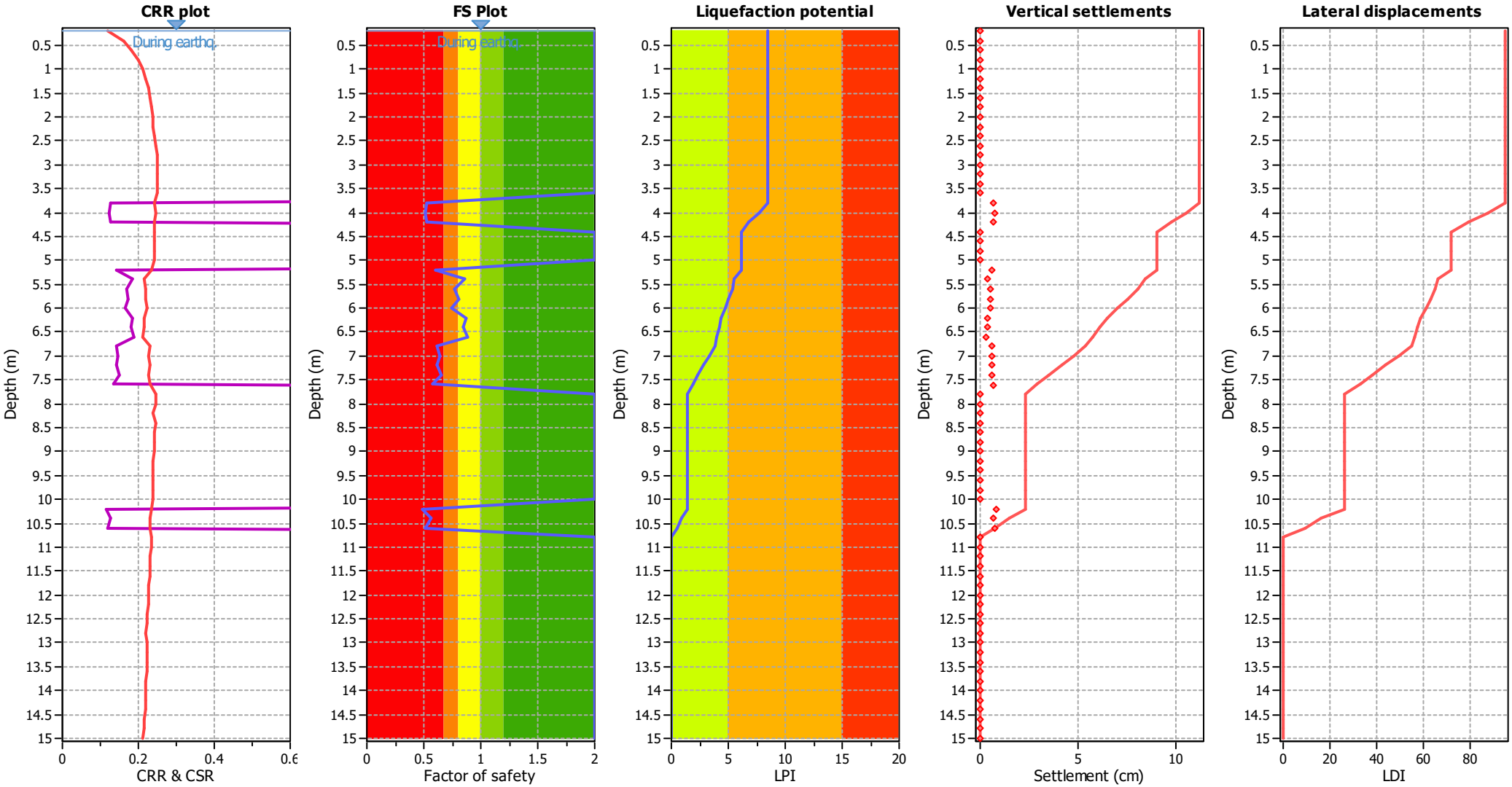






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	0.52	0.48	0.51	0.20	0.77	4.00	0.51	0.49	0.49	0.20	0.79
4.20	0.53	0.47	0.51	0.20	0.74	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	0.60	0.40	0.64	0.20	0.59
5.40	0.86	0.00	0.00	0.20	0.20	5.60	0.78	0.00	0.00	0.20	0.32
5.80	0.80	0.00	0.00	0.20	0.28	6.00	0.75	0.00	0.00	0.20	0.36
6.20	0.87	0.00	0.00	0.20	0.19	6.40	0.84	0.00	0.00	0.20	0.22
6.60	0.88	0.00	0.00	0.20	0.16	6.80	0.61	0.39	0.65	0.20	0.51
7.00	0.64	0.36	0.72	0.20	0.47	7.20	0.62	0.38	0.67	0.20	0.49
7.40	0.66	0.34	0.77	0.20	0.43	7.60	0.58	0.42	0.60	0.20	0.52
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	0.49	0.51	0.47	0.20	0.50	10.40	0.56	0.44	0.56	0.20	0.42
10.60	0.51	0.49	0.49	0.20	0.46	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 8.41

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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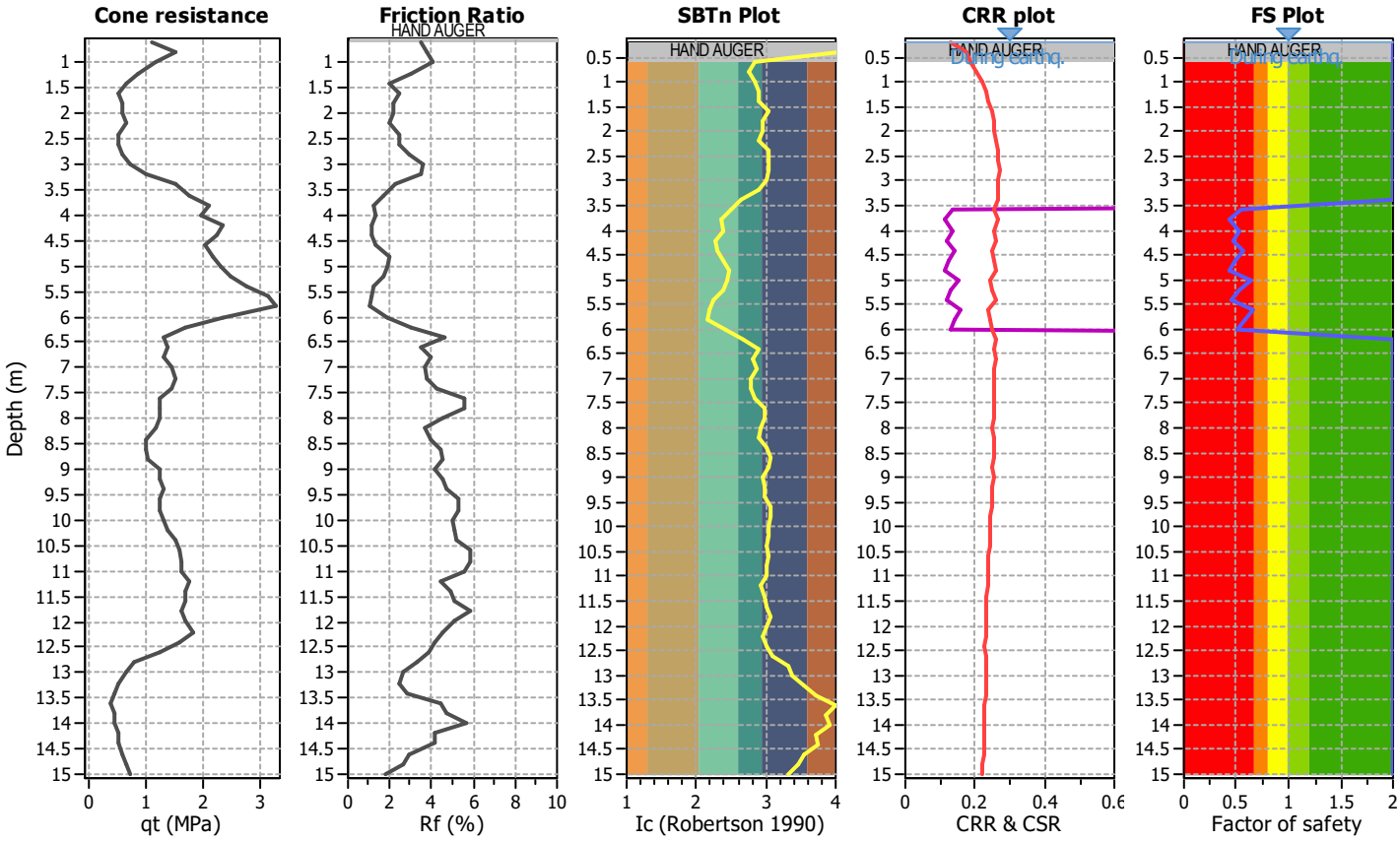
LIQUEFACTION ANALYSIS REPORT

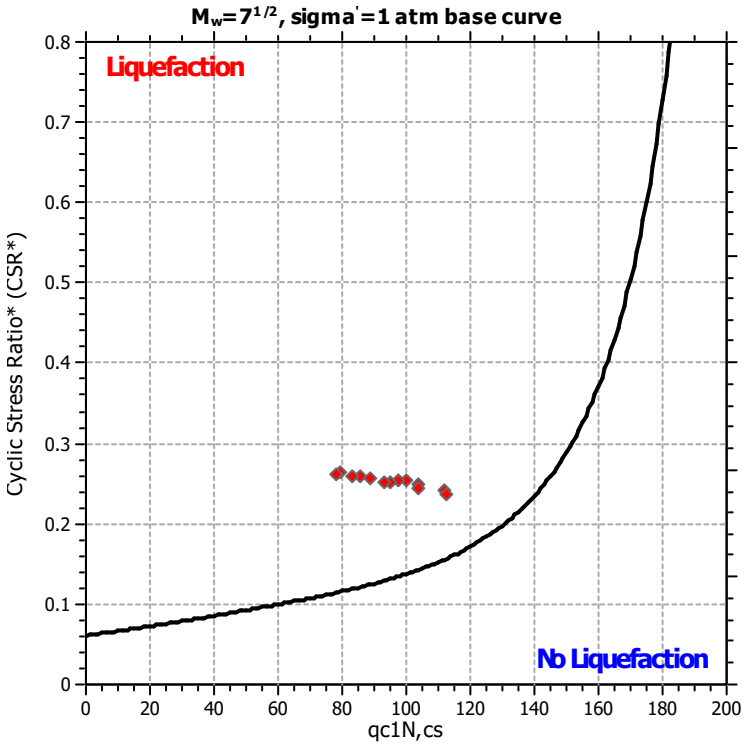
Project title : **Location :**

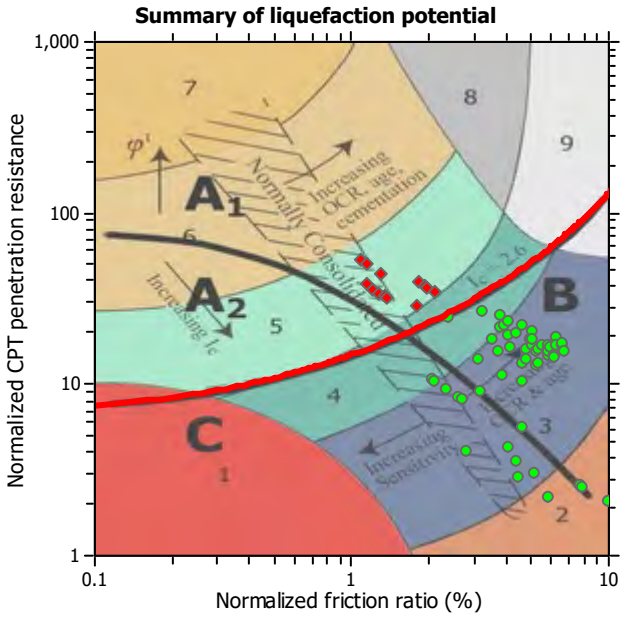
CPT file : SP187

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

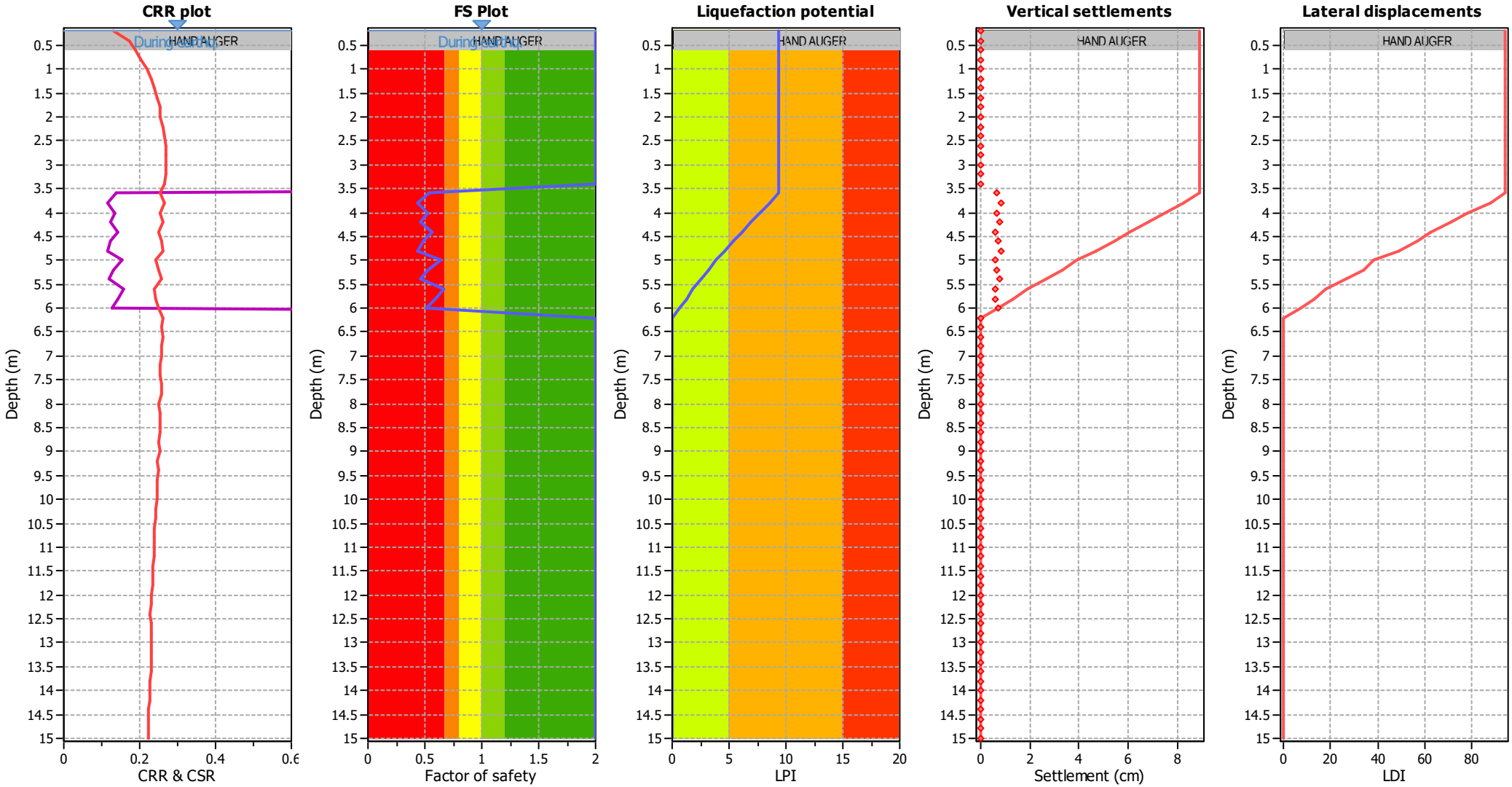






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	0.54	0.46	0.53	0.20	0.75
3.80	0.44	0.56	0.42	0.20	0.91	4.00	0.53	0.47	0.51	0.20	0.76
4.20	0.47	0.53	0.44	0.20	0.84	4.40	0.57	0.43	0.58	0.20	0.67
4.60	0.48	0.52	0.46	0.20	0.80	4.80	0.44	0.56	0.41	0.20	0.86
5.00	0.64	0.36	0.73	0.20	0.54	5.20	0.52	0.48	0.51	0.20	0.70
5.40	0.46	0.54	0.44	0.20	0.79	5.60	0.66	0.34	0.78	0.20	0.49
5.80	0.58	0.42	0.60	0.20	0.59	6.00	0.51	0.49	0.49	0.20	0.68
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 9.37

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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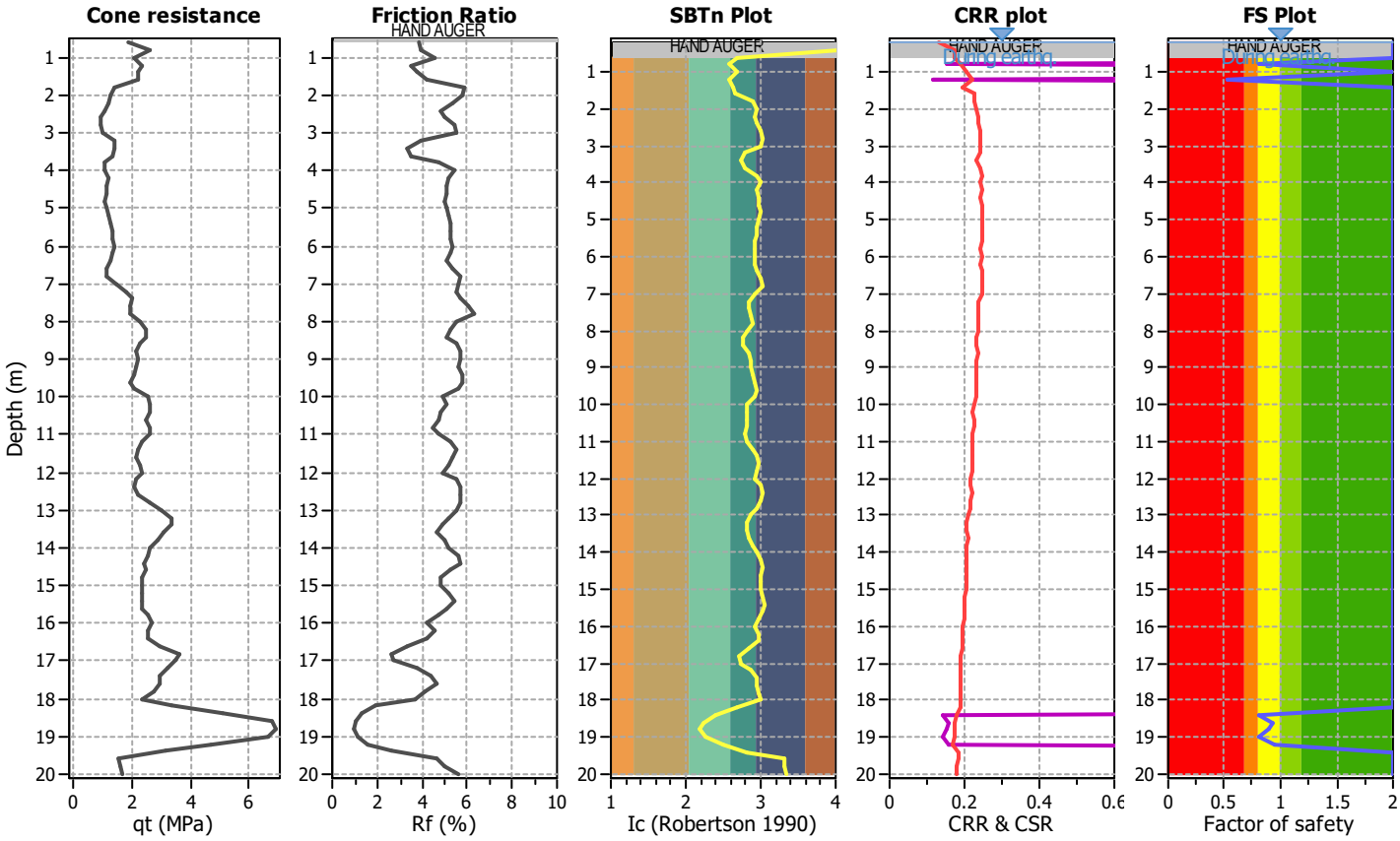
LIQUEFACTION ANALYSIS REPORT

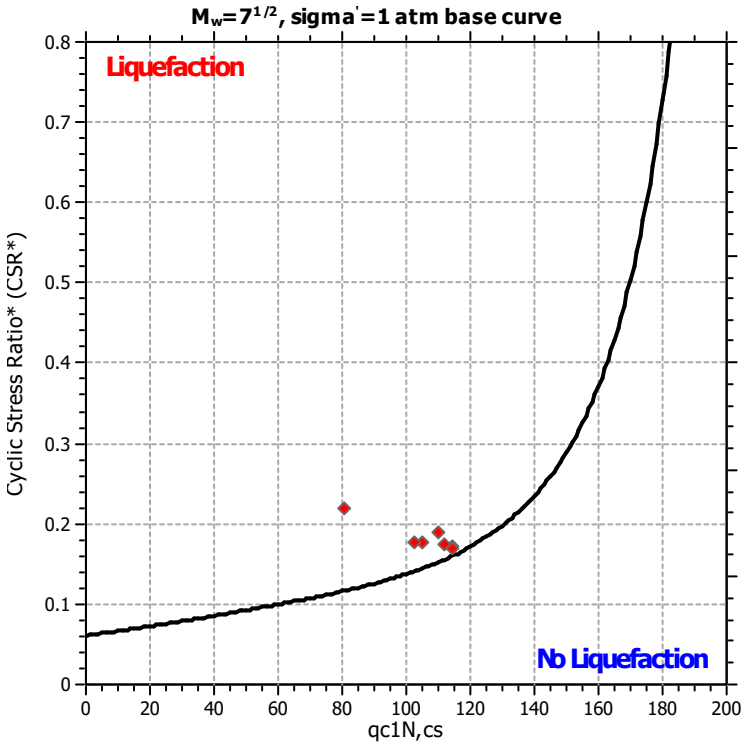
Project title : **Location :**

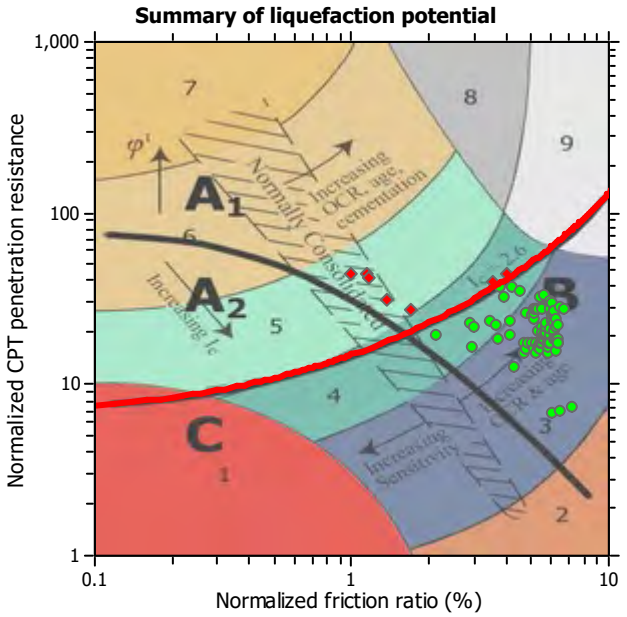
CPT file : SP189

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

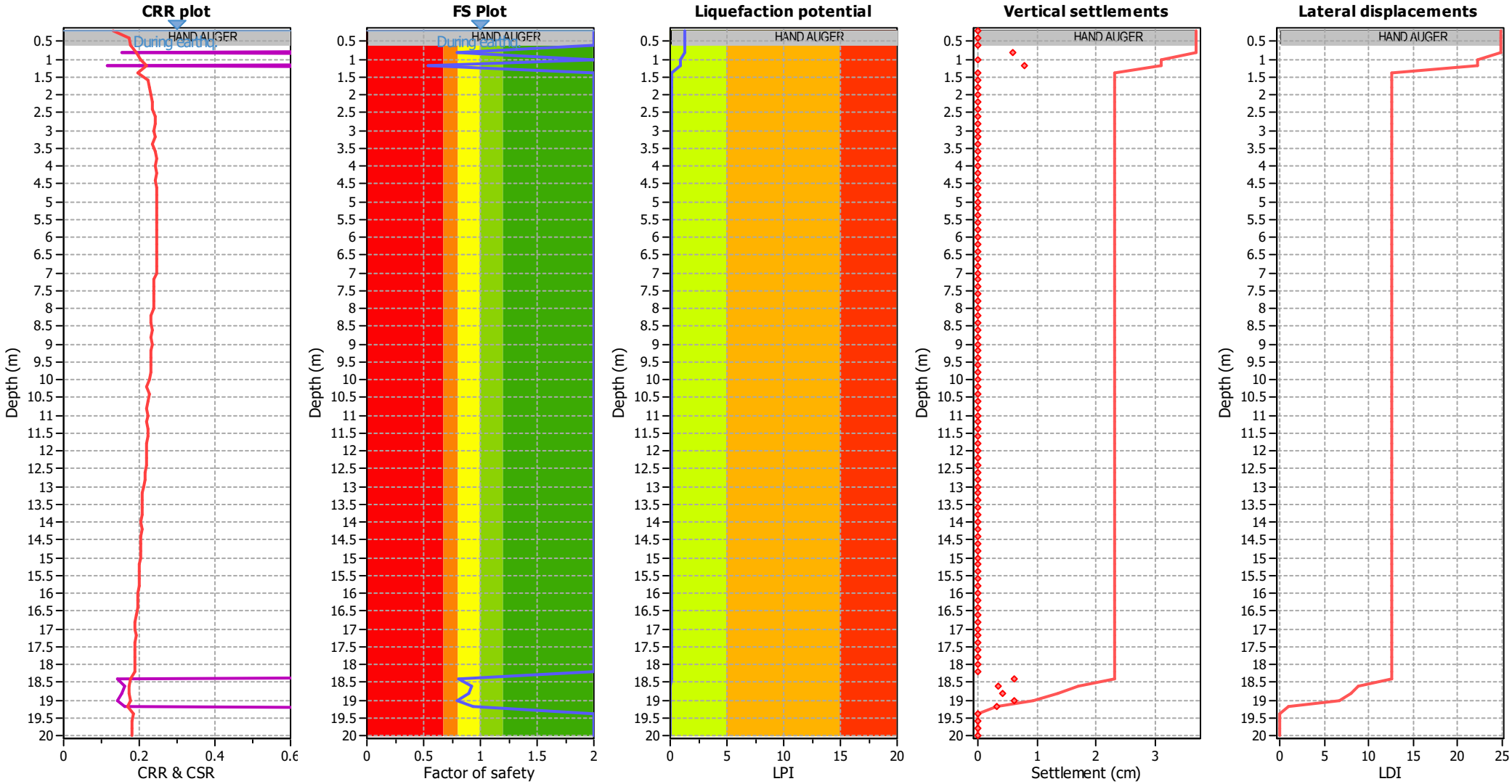






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	0.80	0.00	0.00	0.20	0.38
1.00	2.00	0.00	0.00	0.20	0.00	1.20	0.53	0.00	0.00	0.20	0.88
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	0.81	0.00	0.00	0.20	0.03
18.60	0.93	0.00	0.00	0.20	0.01	18.80	0.89	0.00	0.00	0.20	0.01
19.00	0.80	0.00	0.00	0.20	0.02	19.20	0.94	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.34

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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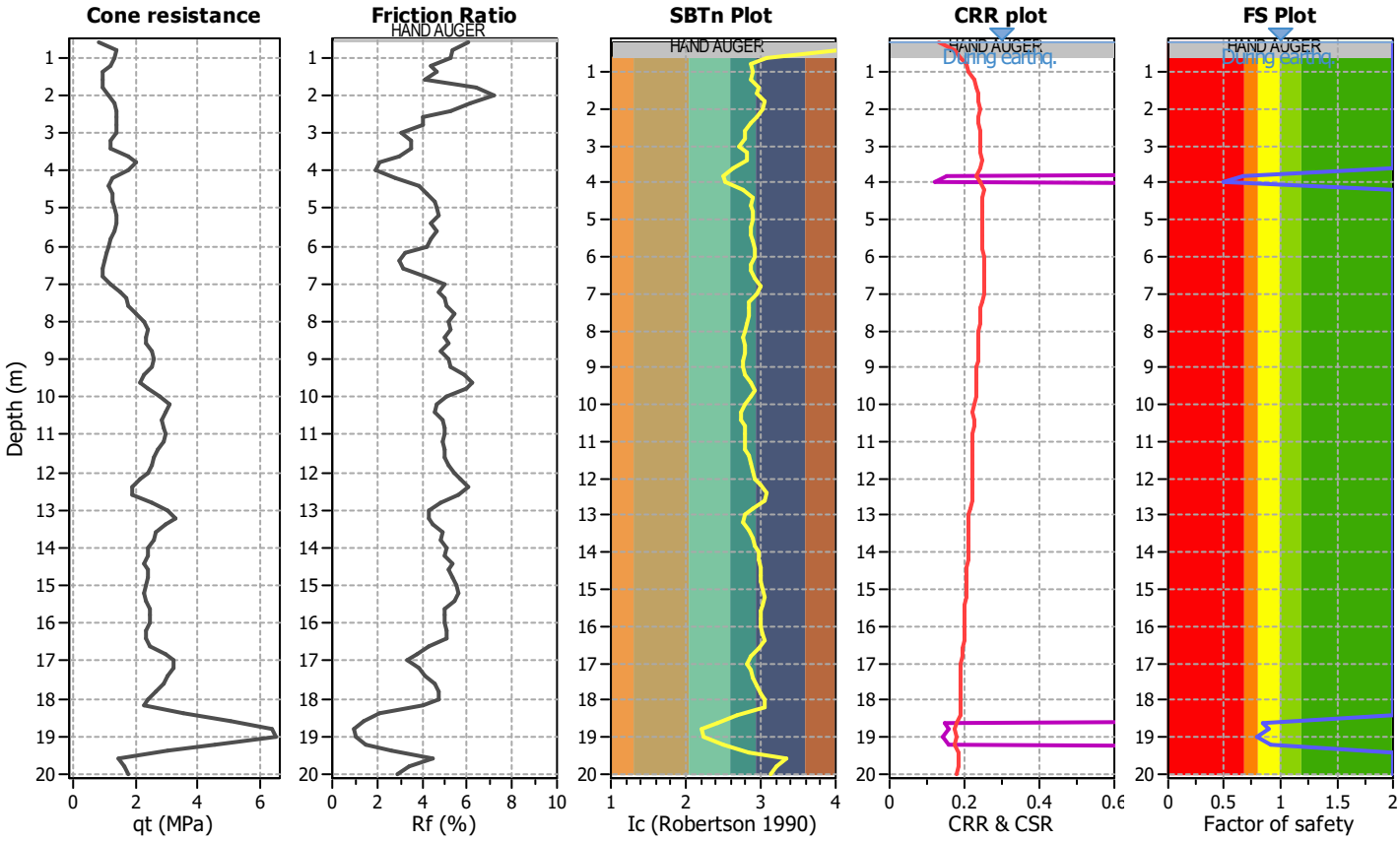
LIQUEFACTION ANALYSIS REPORT

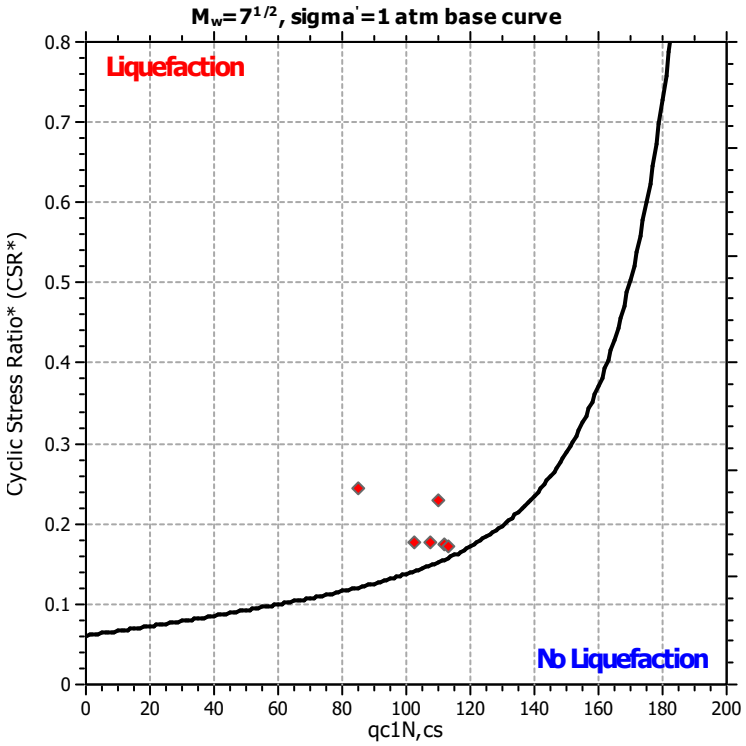
Project title : **Location :**

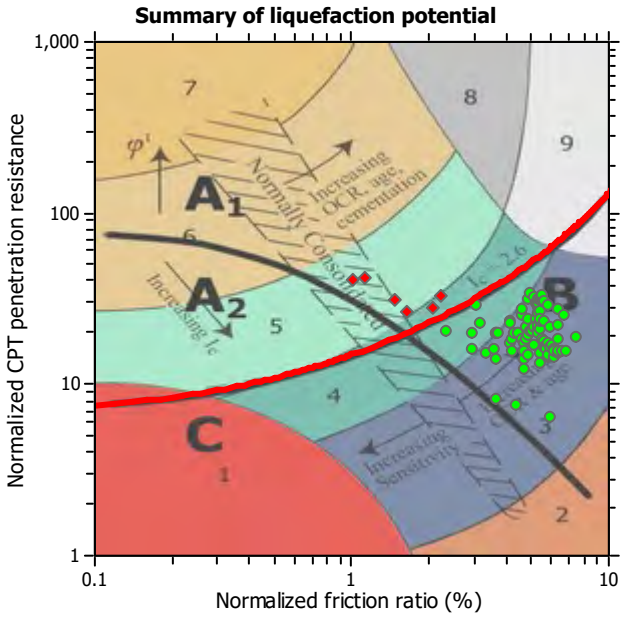
CPT file : SP190

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

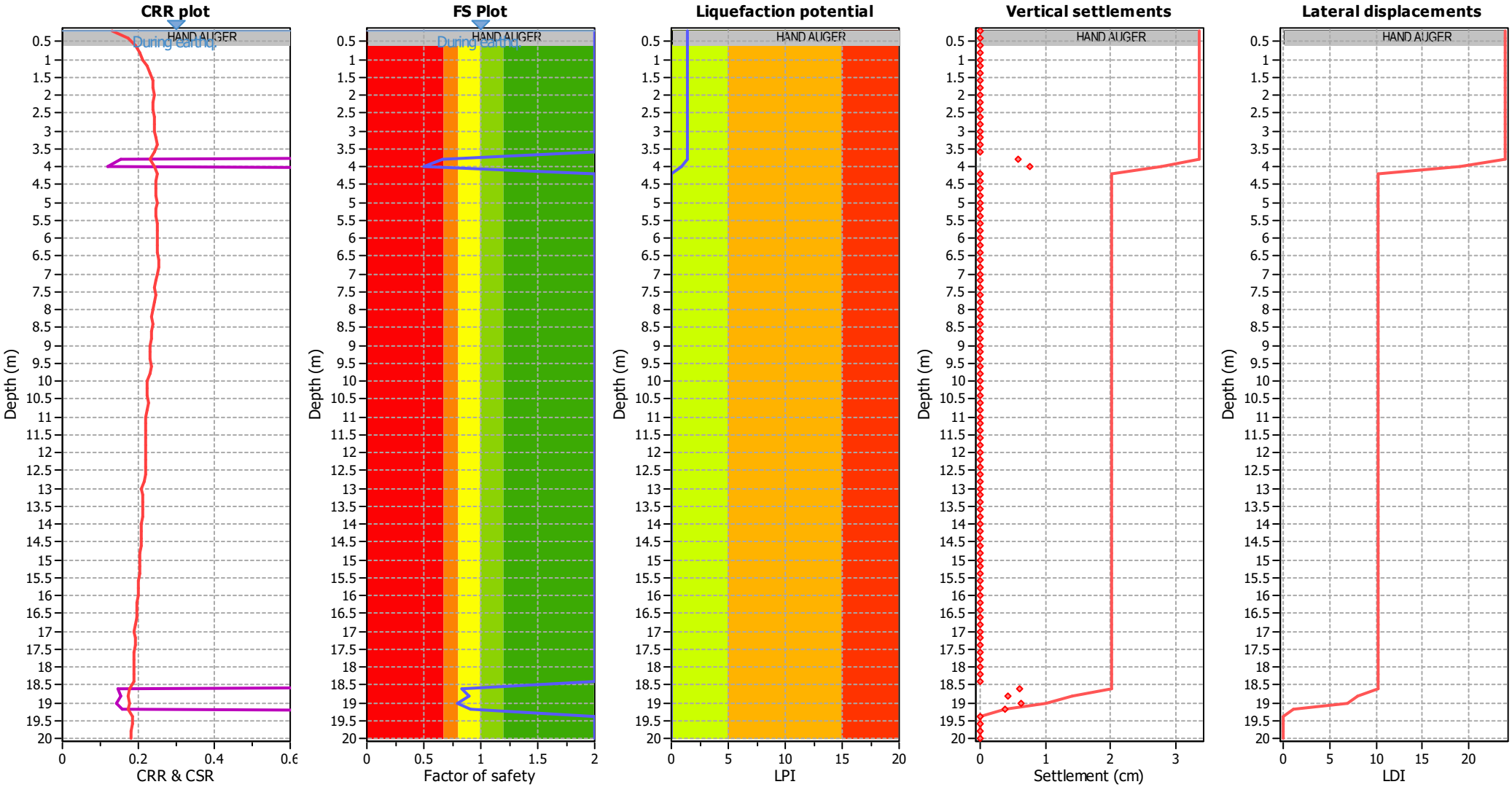






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	0.66	0.00	0.00	0.20	0.55	4.00	0.50	0.00	0.00	0.20	0.81
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	0.84	0.00	0.00	0.20	0.02	18.80	0.89	0.00	0.00	0.20	0.01
19.00	0.80	0.00	0.00	0.20	0.02	19.20	0.91	0.00	0.00	0.20	0.01

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.42

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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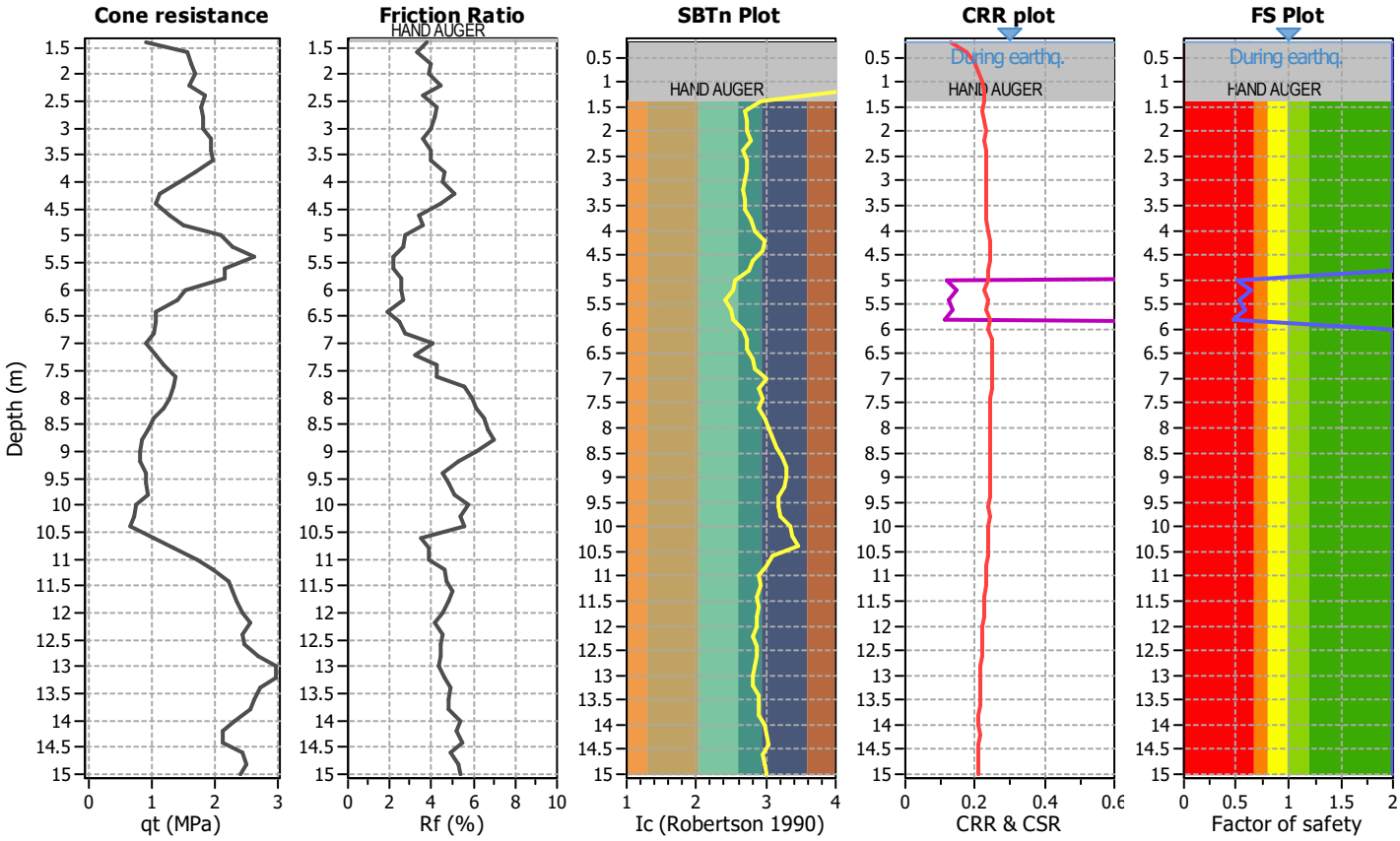
LIQUEFACTION ANALYSIS REPORT

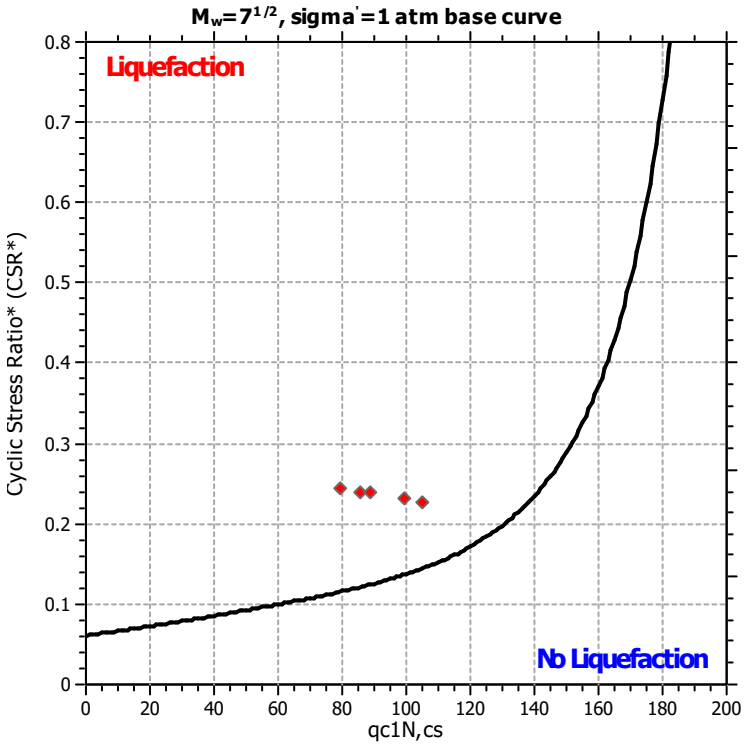
Project title : **Location :**

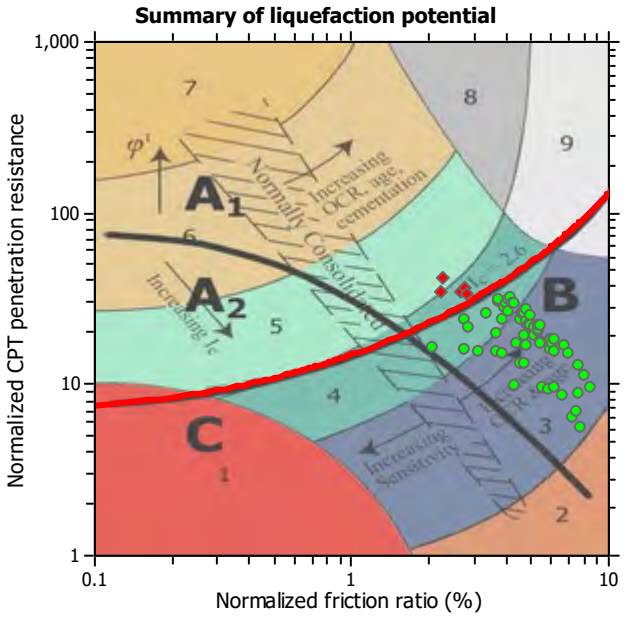
CPT file : SP192

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

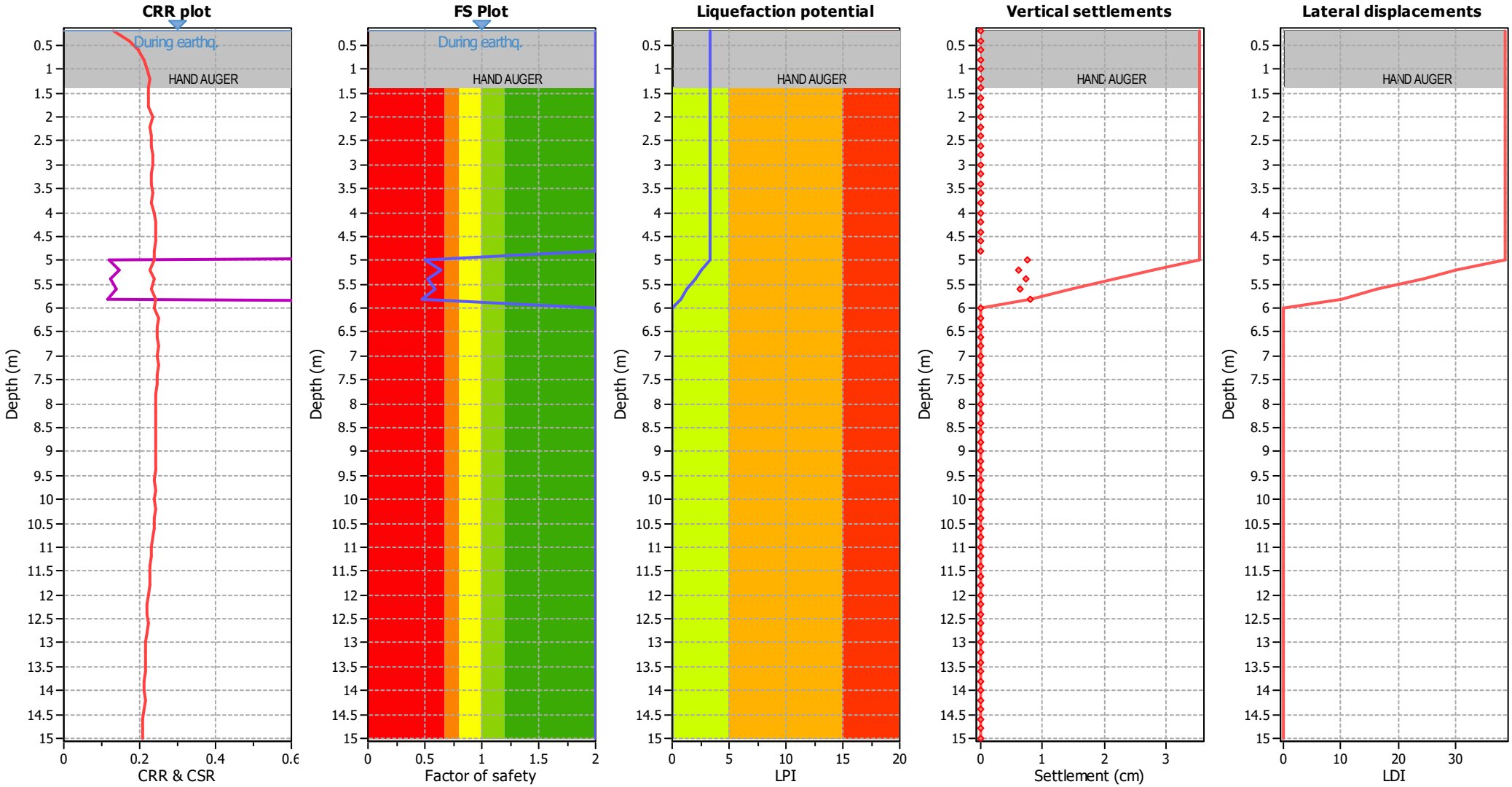






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.00	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	0.50	0.50	0.48	0.20	0.74	5.20	0.64	0.00	0.00	0.20	0.54
5.40	0.52	0.48	0.51	0.20	0.70	5.60	0.59	0.00	0.00	0.20	0.59
5.80	0.47	0.53	0.45	0.20	0.75	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 3.32

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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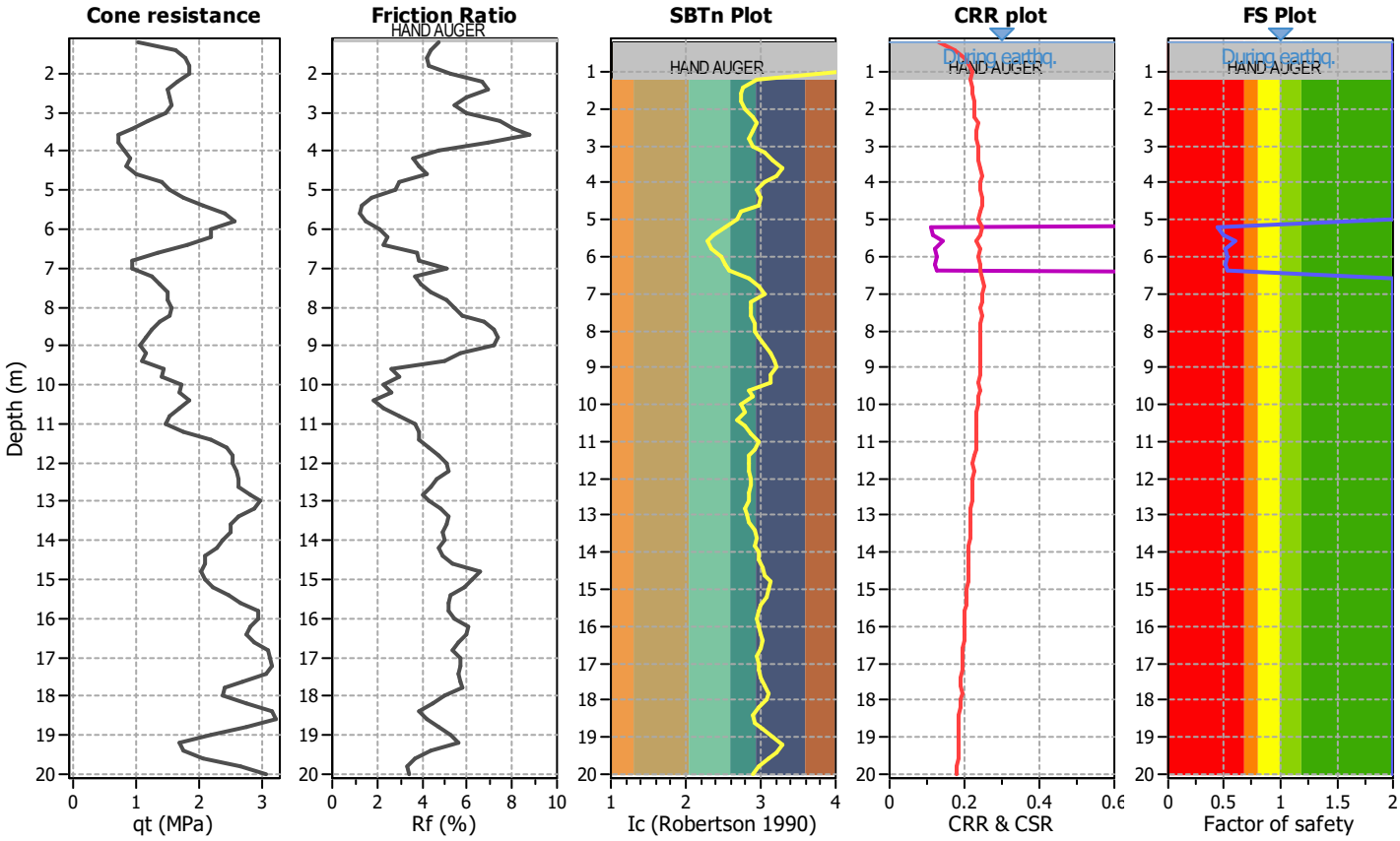
LIQUEFACTION ANALYSIS REPORT

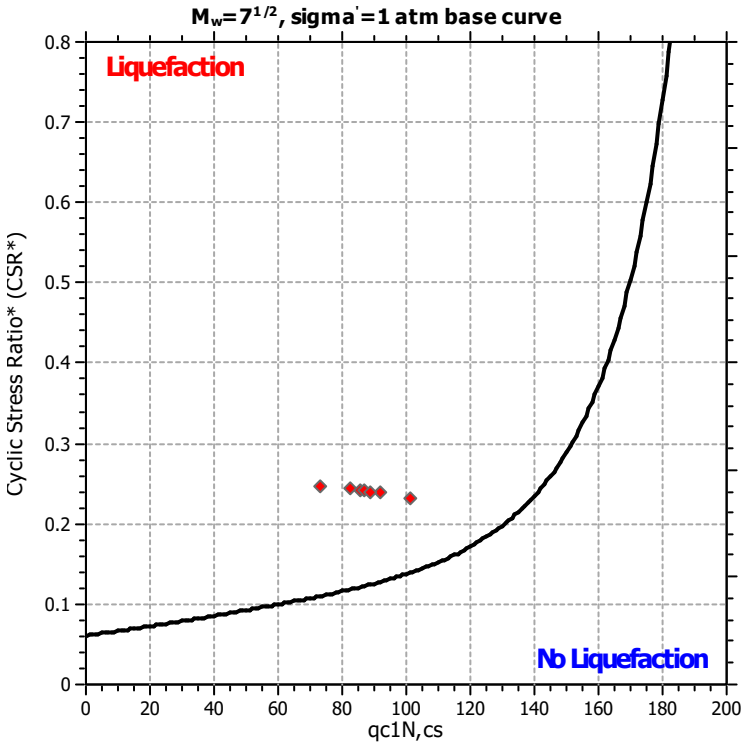
Project title : **Location :**

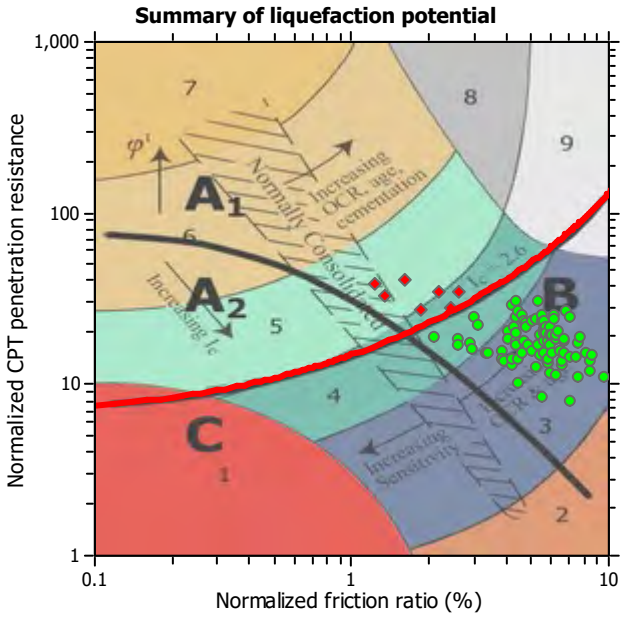
CPT file : SP193

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

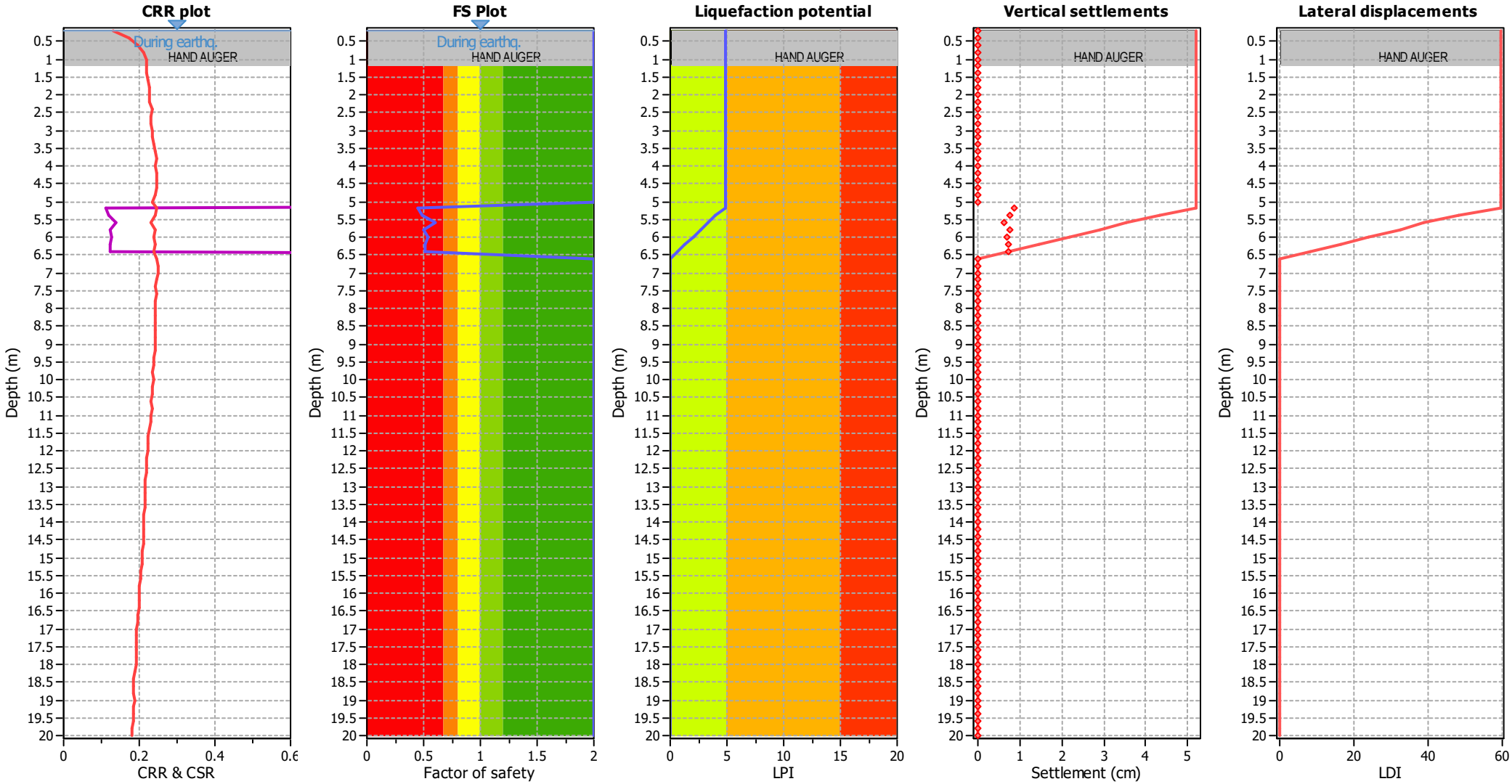






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	0.44	0.56	0.42	0.20	0.82
5.40	0.49	0.51	0.46	0.20	0.75	5.60	0.60	0.00	0.00	0.20	0.57
5.80	0.50	0.50	0.48	0.20	0.71	6.00	0.53	0.47	0.52	0.20	0.65
6.20	0.51	0.49	0.49	0.20	0.68	6.40	0.52	0.48	0.50	0.20	0.66
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.85

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

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d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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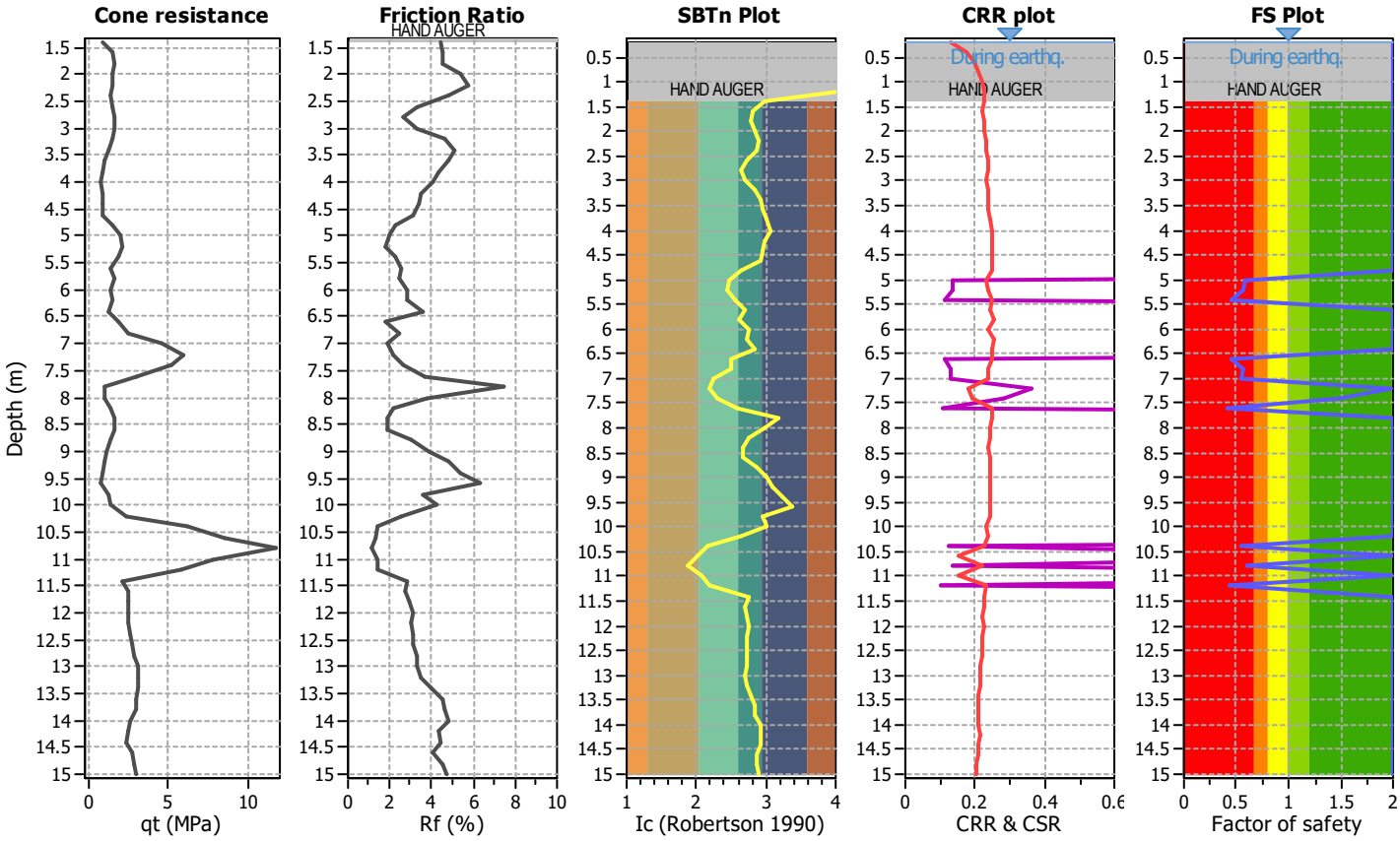
LIQUEFACTION ANALYSIS REPORT

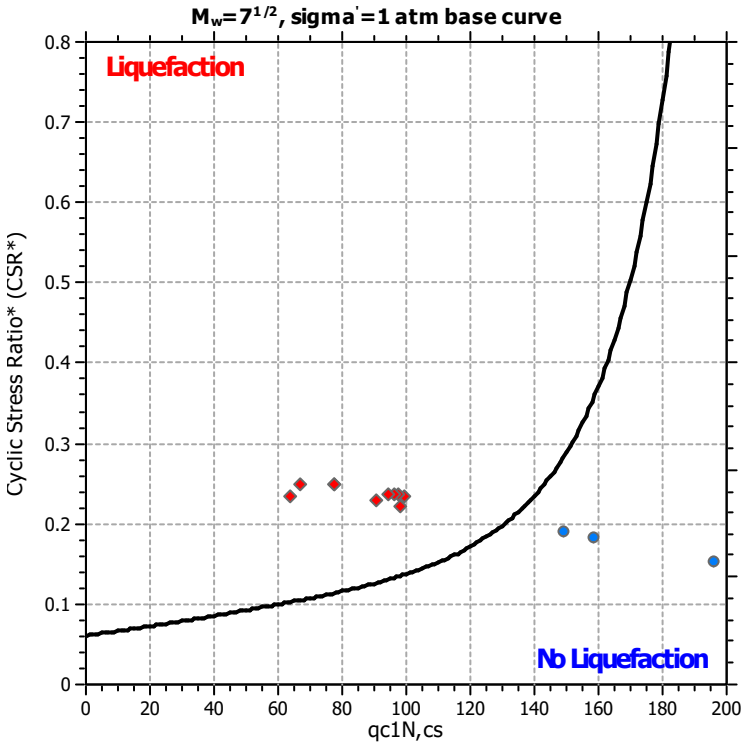
Project title : **Location :**

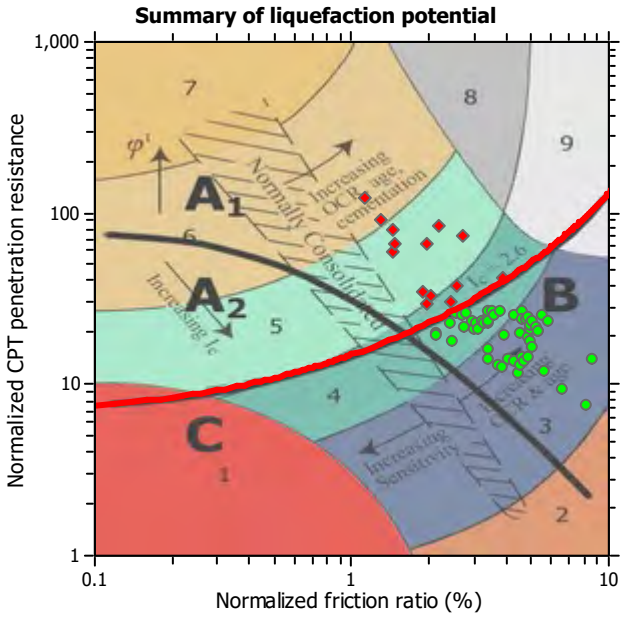
CPT file : SP194

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based







Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
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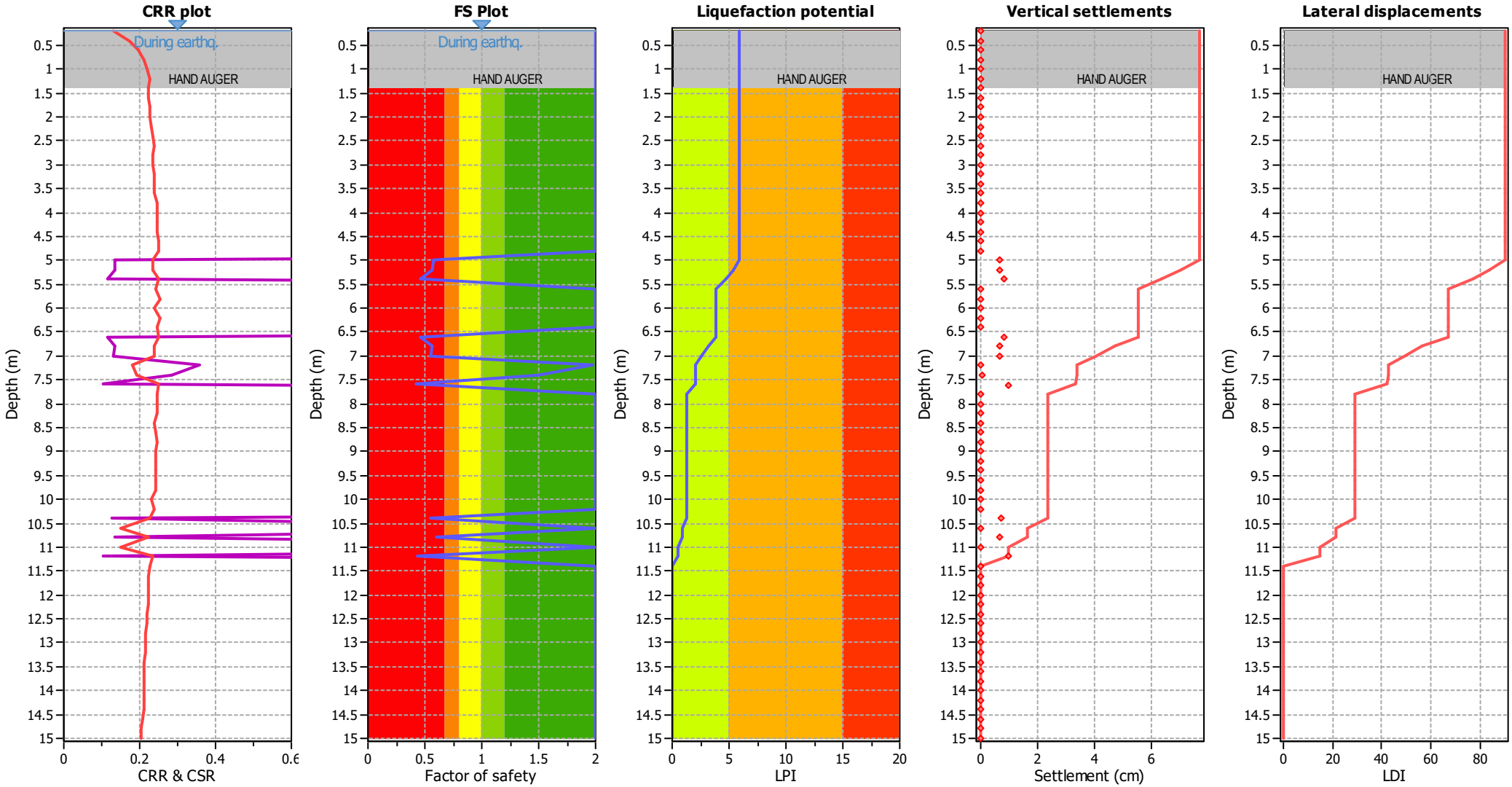
Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.00	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	0.58	0.42	0.59	0.20	0.63	5.20	0.57	0.43	0.57	0.20	0.64
5.40	0.46	0.54	0.43	0.20	0.79	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	0.46	0.54	0.43	0.20	0.73	6.80	0.56	0.44	0.56	0.20	0.58
7.00	0.55	0.45	0.54	0.20	0.59	7.20	1.98	0.00	0.00	0.20	0.00
7.40	1.50	0.00	0.00	0.20	0.00	7.60	0.42	0.58	0.40	0.20	0.72
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	0.55	0.45	0.55	0.20	0.43
10.60	2.00	0.00	0.00	0.20	0.00	10.80	0.61	0.00	0.00	0.20	0.36
11.00	2.00	0.00	0.00	0.20	0.00	11.20	0.44	0.56	0.42	0.20	0.50
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 5.95

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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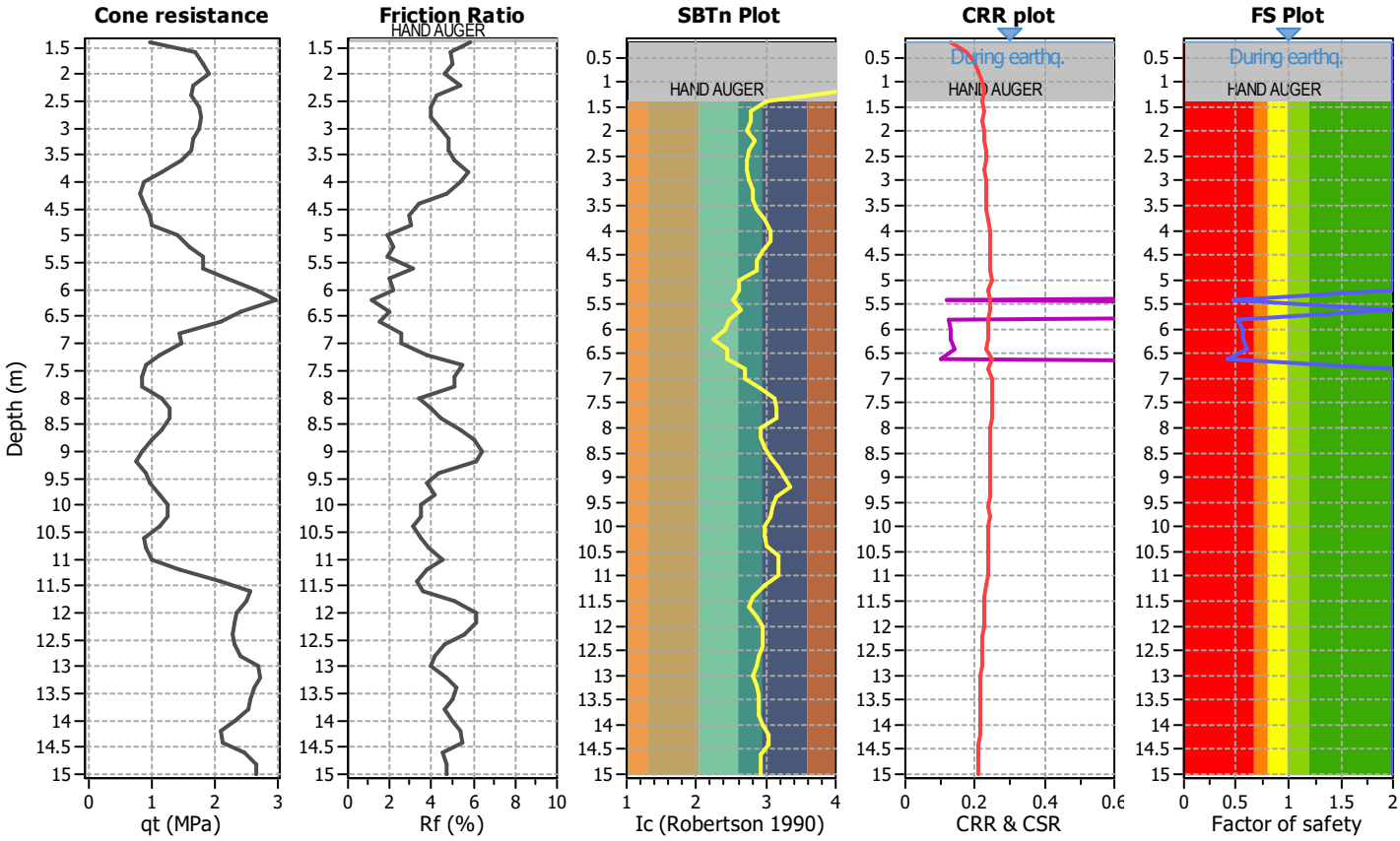
LIQUEFACTION ANALYSIS REPORT

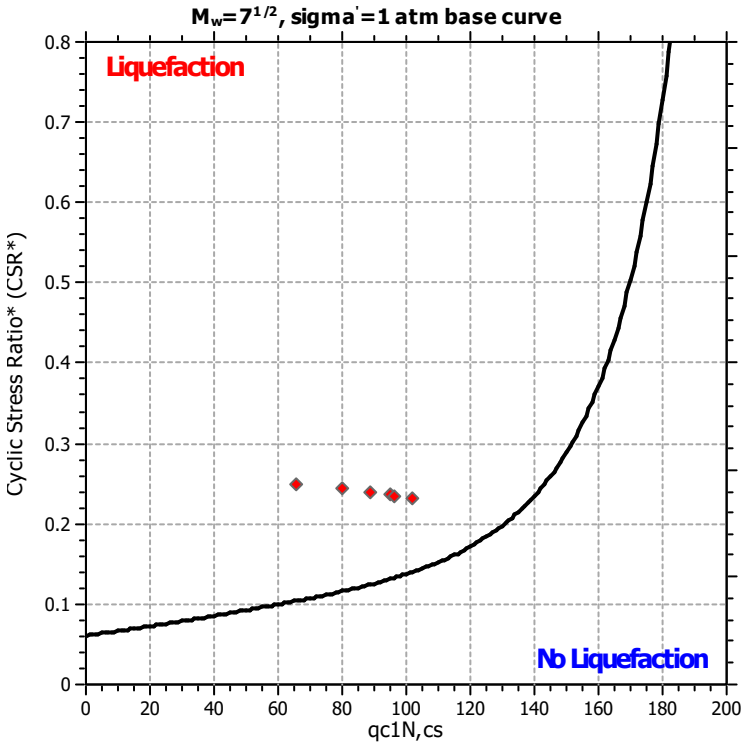
Project title : **Location :**

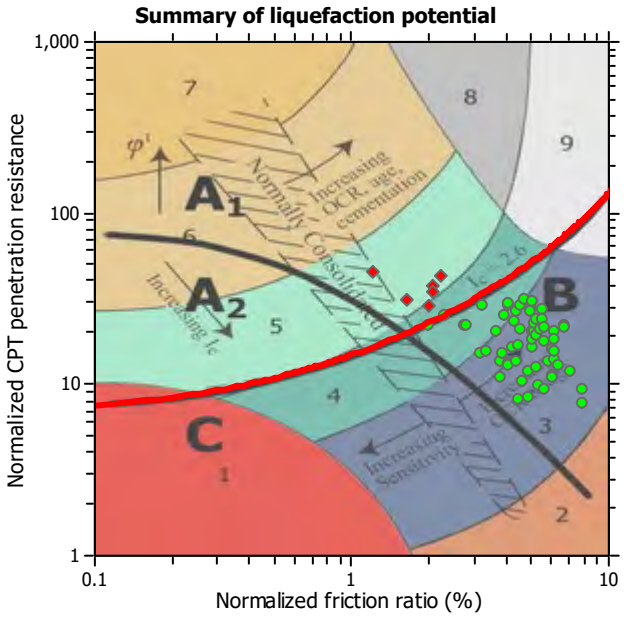
CPT file : SP195

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

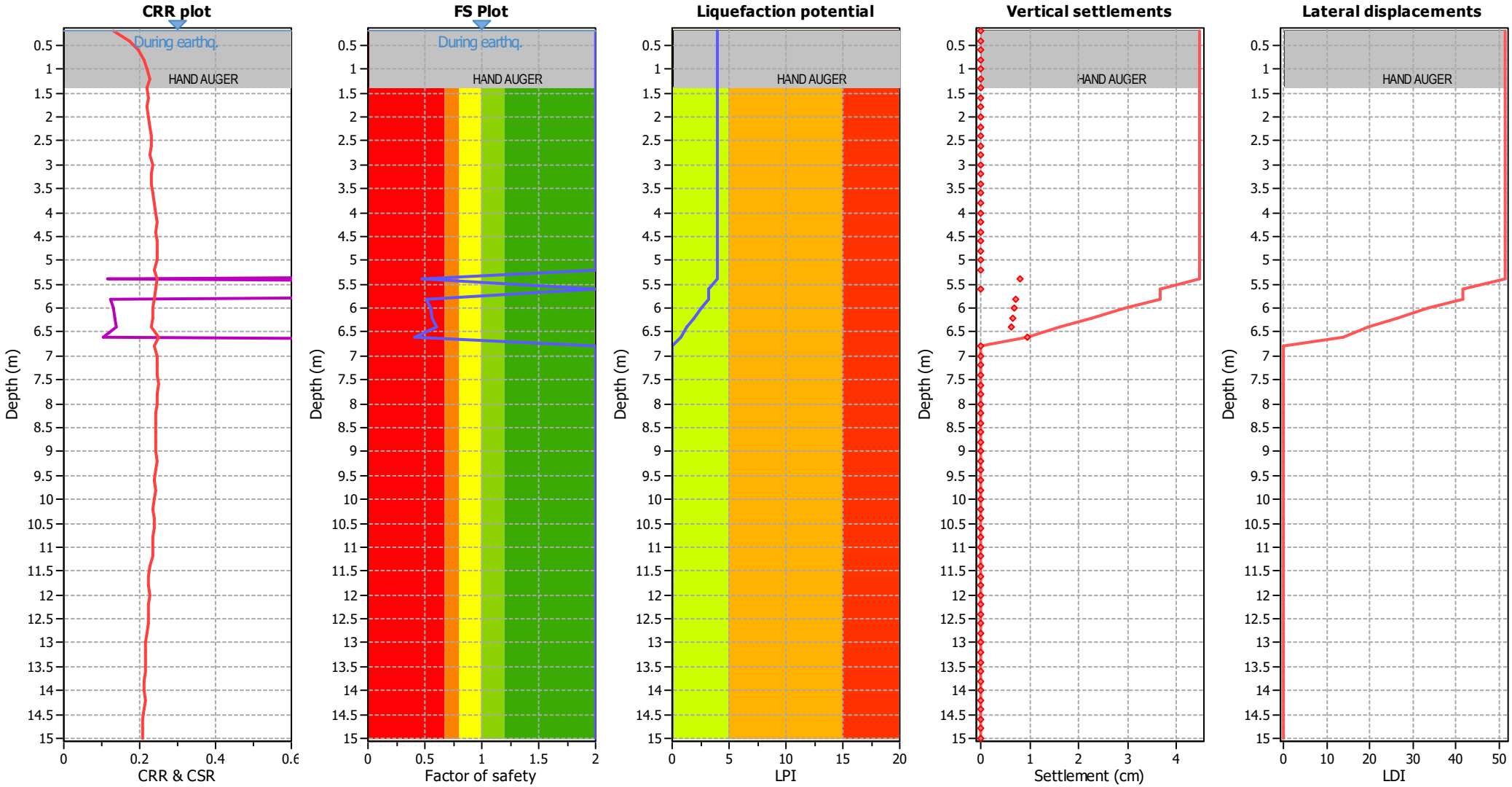






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.00	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	0.47	0.00	0.00	0.20	0.77	5.60	2.00	0.00	0.00	0.20	0.00
5.80	0.52	0.48	0.50	0.20	0.69	6.00	0.56	0.00	0.00	0.20	0.62
6.20	0.57	0.00	0.00	0.20	0.60	6.40	0.61	0.00	0.00	0.20	0.53
6.60	0.42	0.58	0.40	0.20	0.78	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 3.99

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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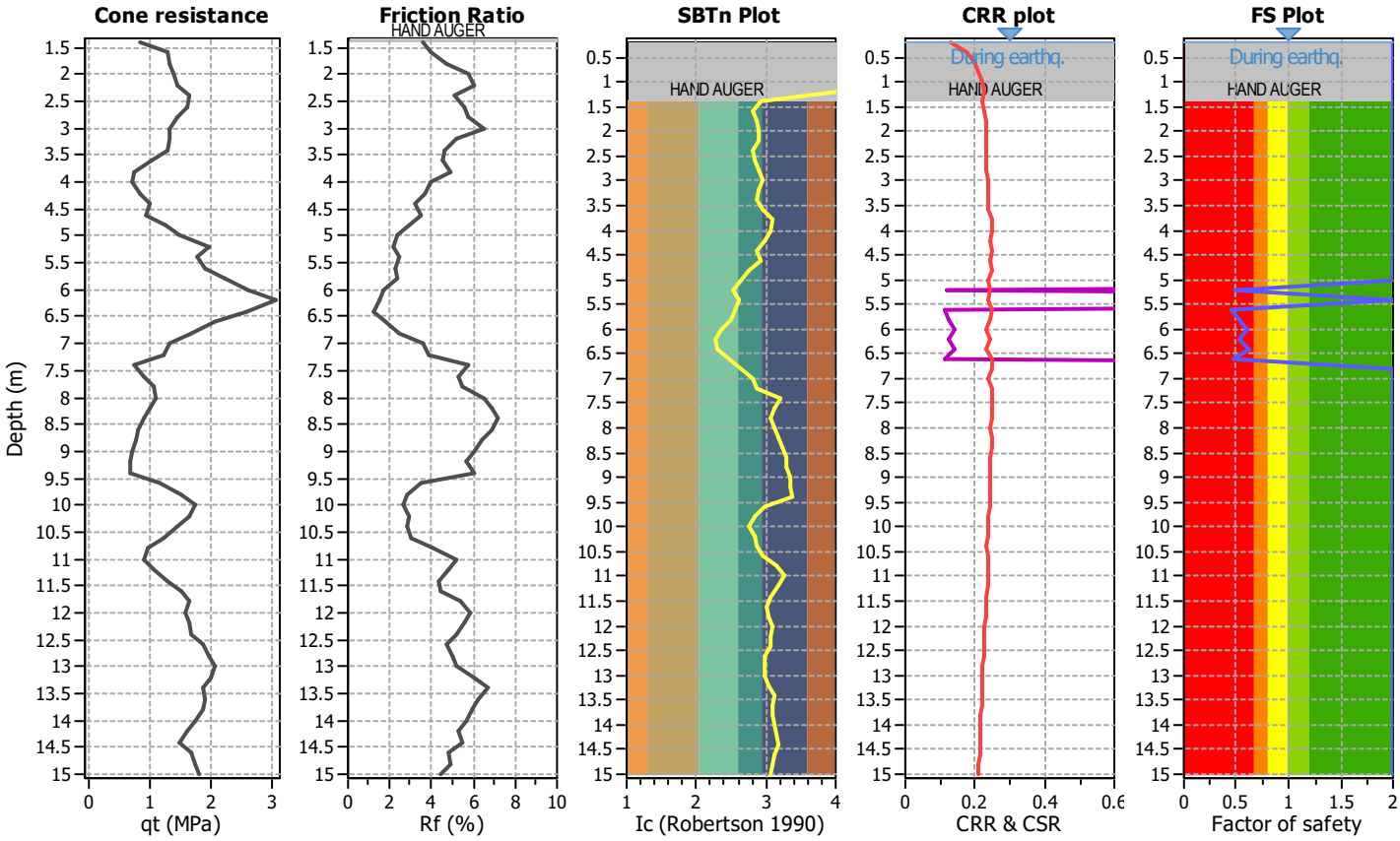
LIQUEFACTION ANALYSIS REPORT

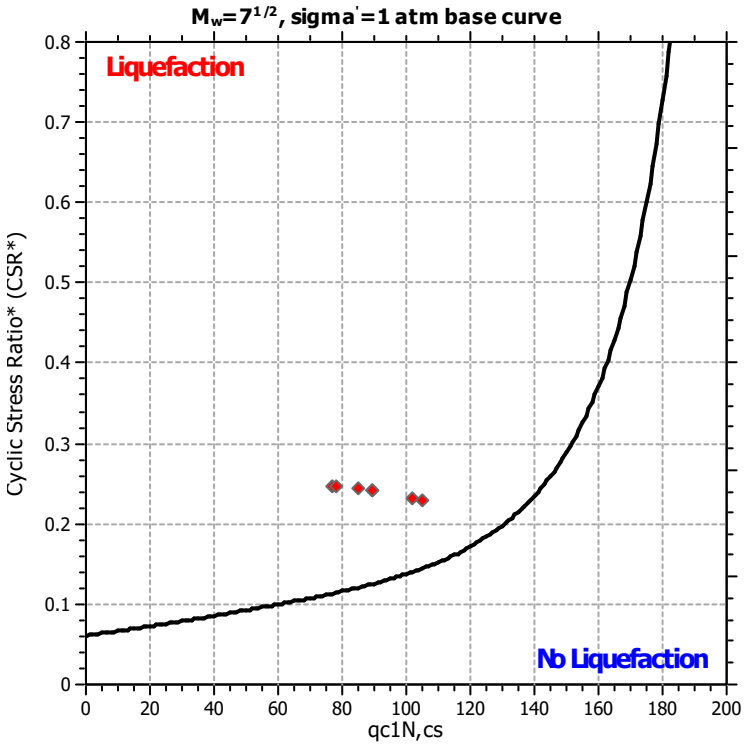
Project title : **Location :**

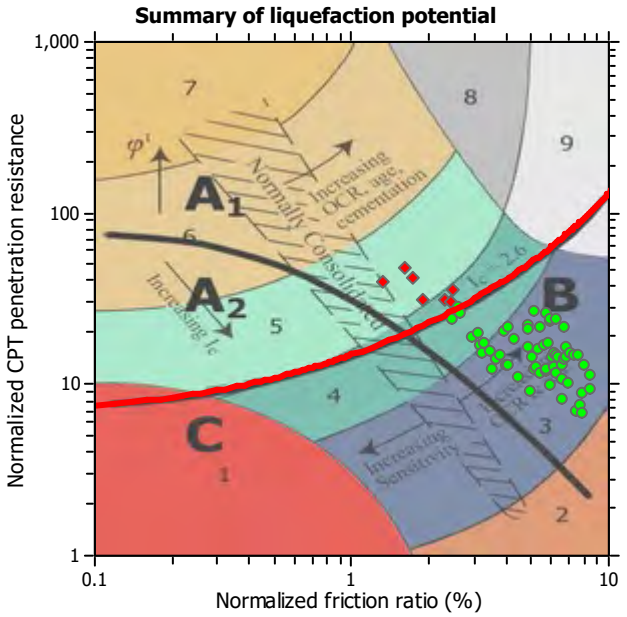
CPT file : SP197

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

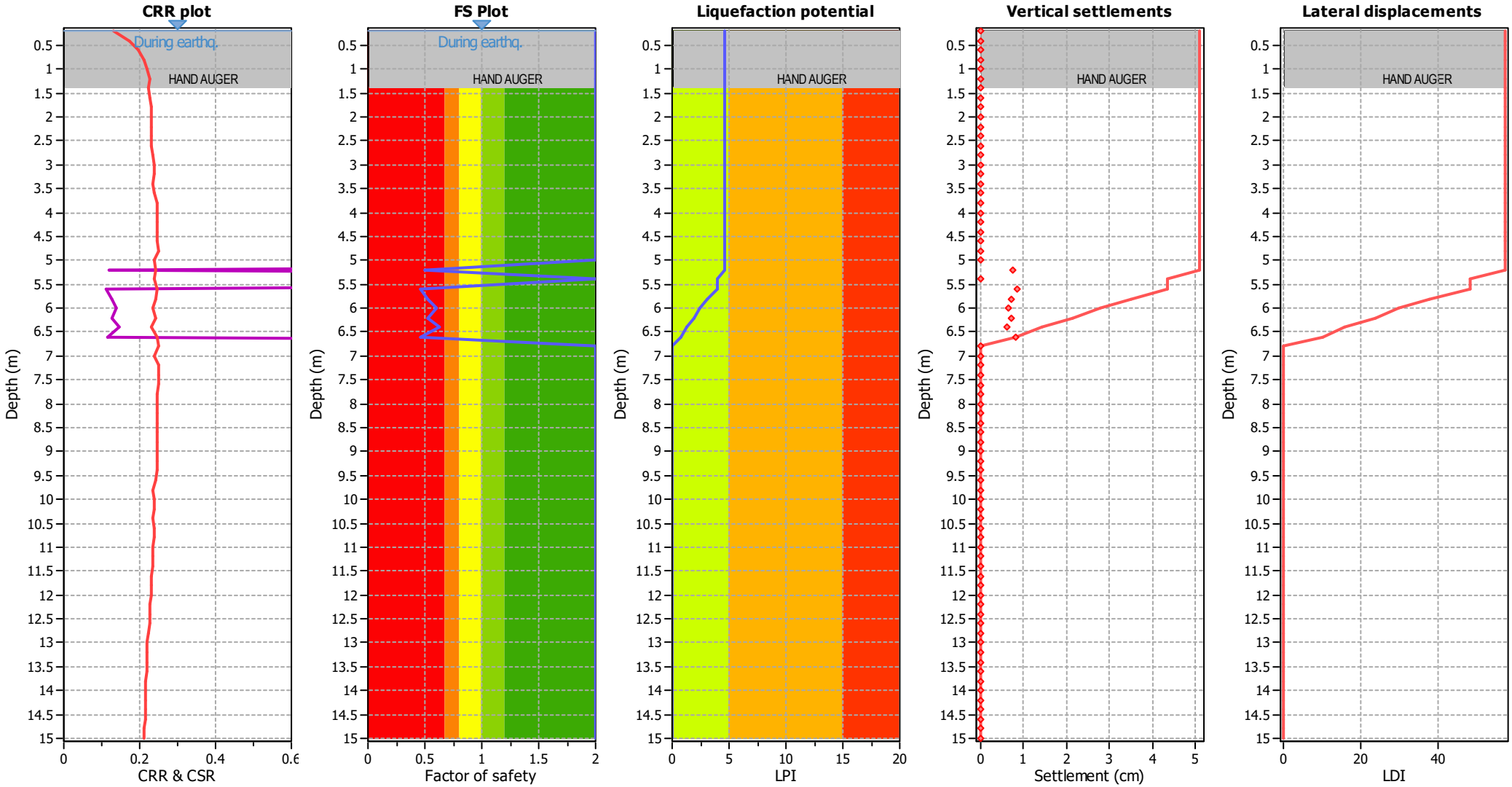






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.00	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	0.49	0.00	0.00	0.20	0.75
5.40	2.00	0.00	0.00	0.20	0.00	5.60	0.46	0.54	0.43	0.20	0.78
5.80	0.52	0.48	0.50	0.20	0.68	6.00	0.60	0.00	0.00	0.20	0.56
6.20	0.52	0.48	0.50	0.20	0.66	6.40	0.63	0.00	0.00	0.20	0.51
6.60	0.46	0.54	0.44	0.20	0.72	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 4.66

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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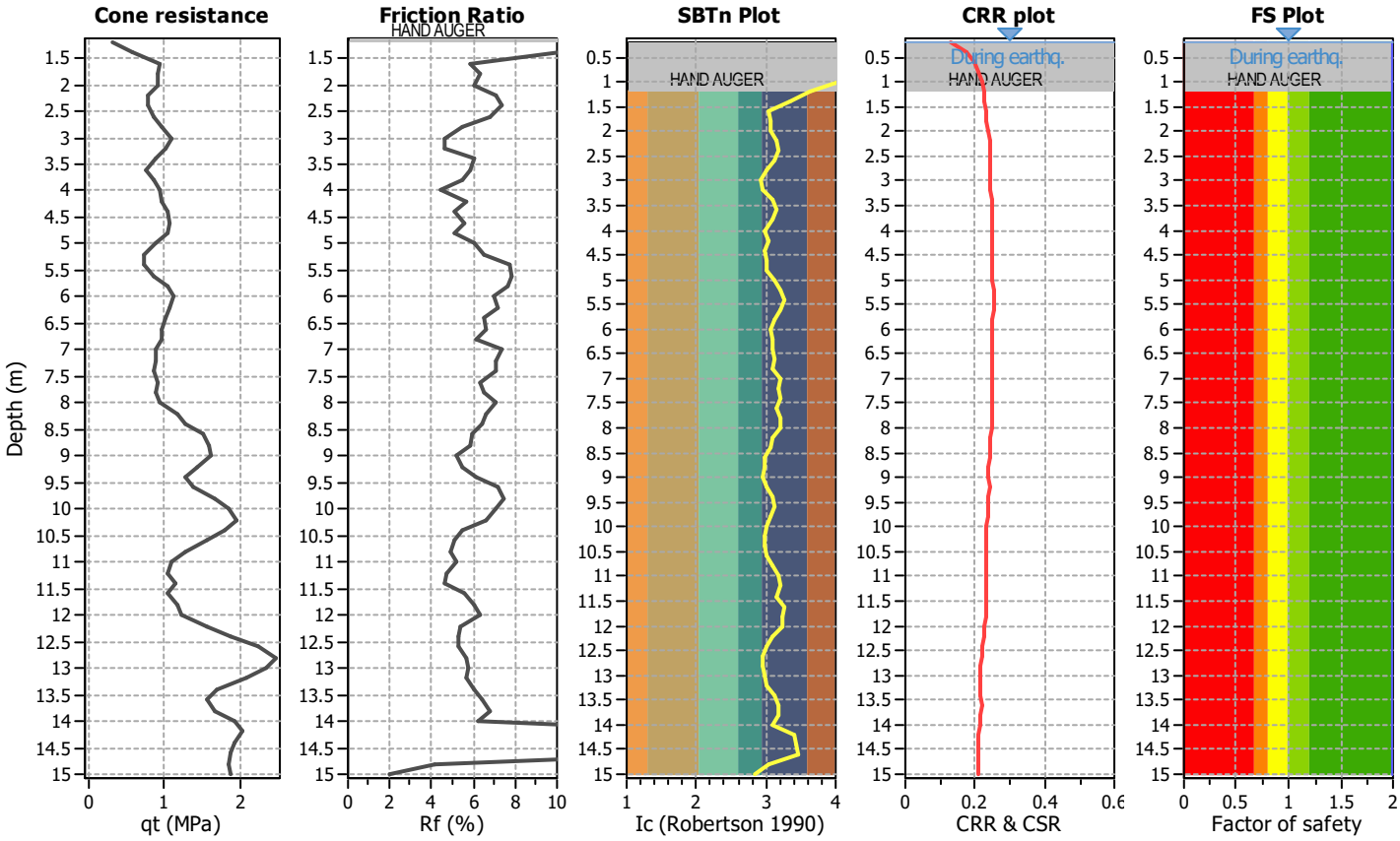
LIQUEFACTION ANALYSIS REPORT

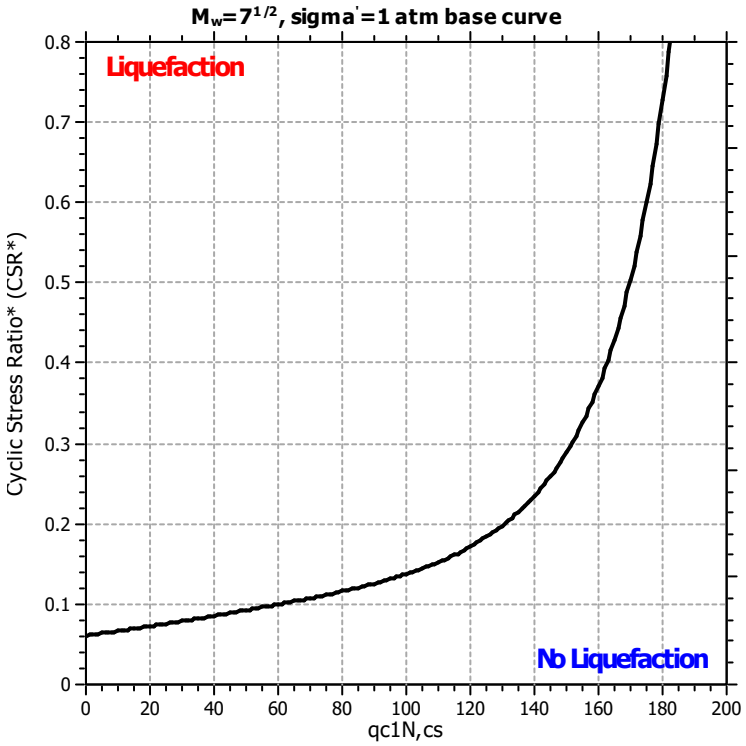
Project title : **Location :**

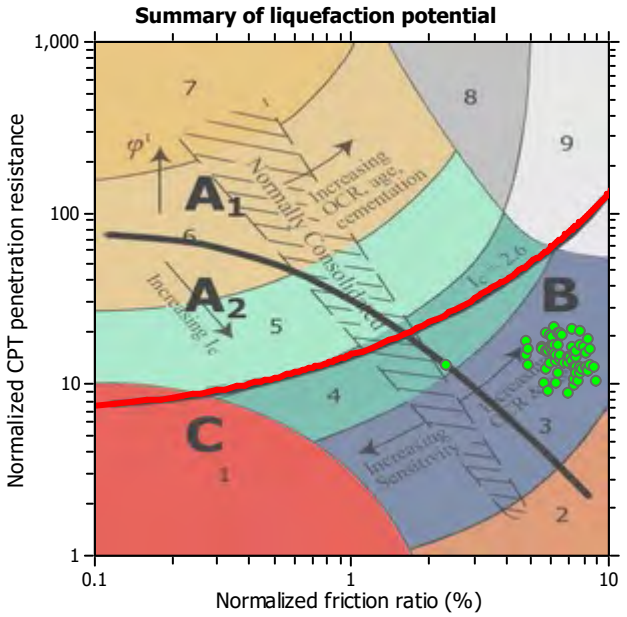
CPT file : SP198

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

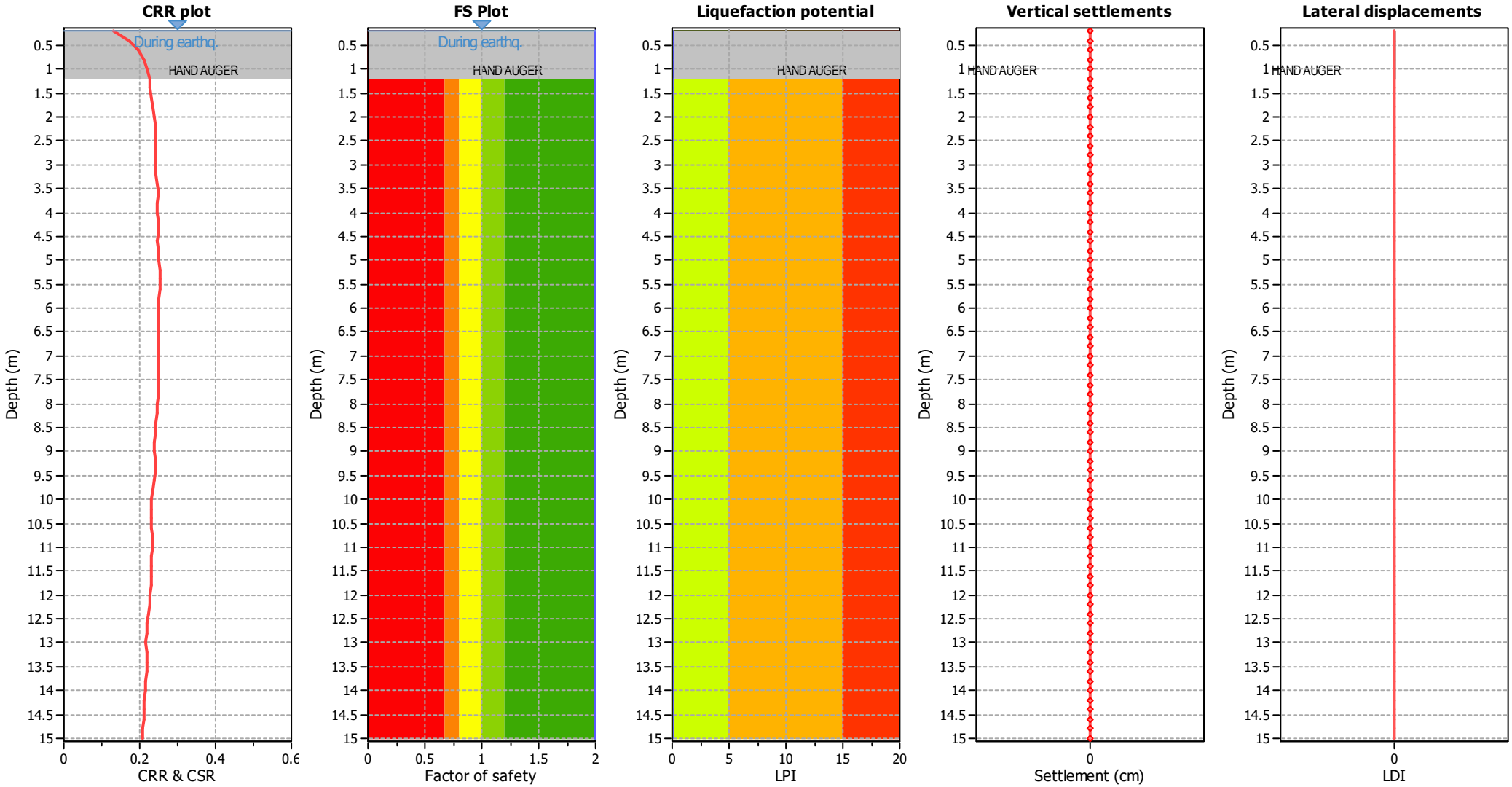






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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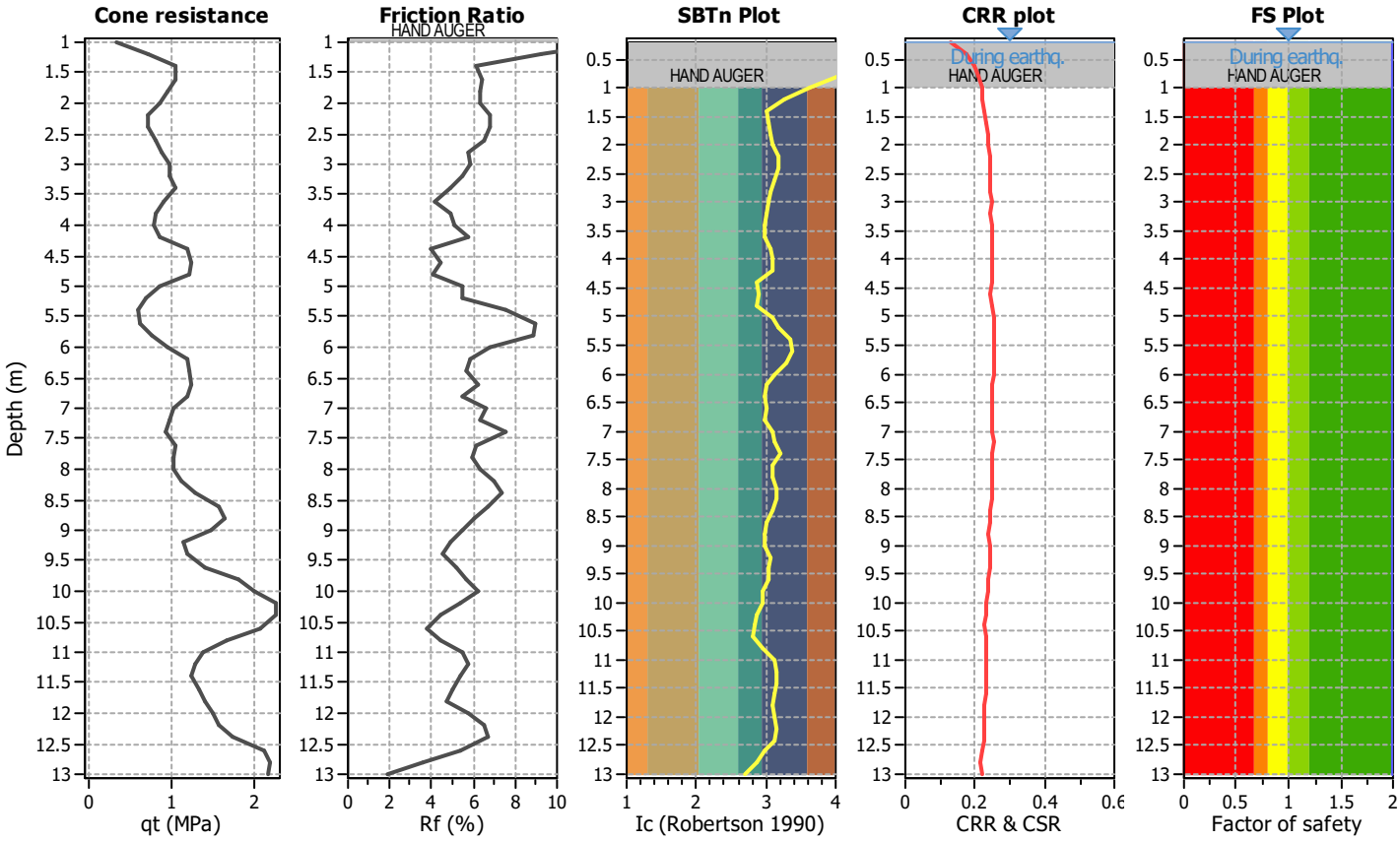
LIQUEFACTION ANALYSIS REPORT

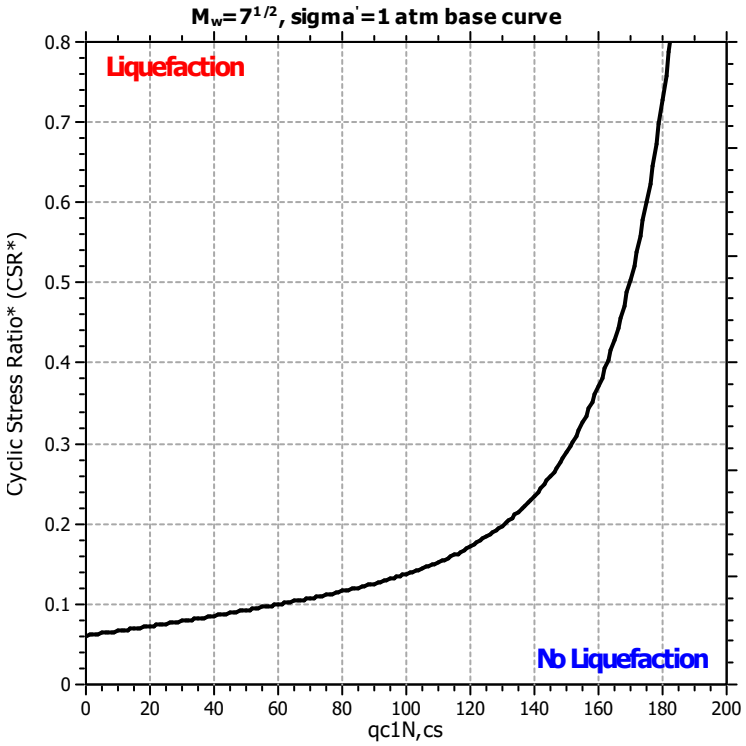
Project title : **Location :**

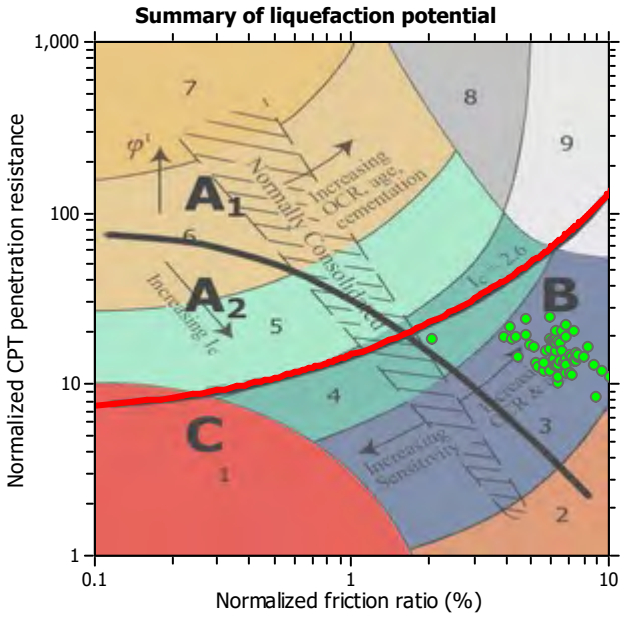
CPT file : SP199

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

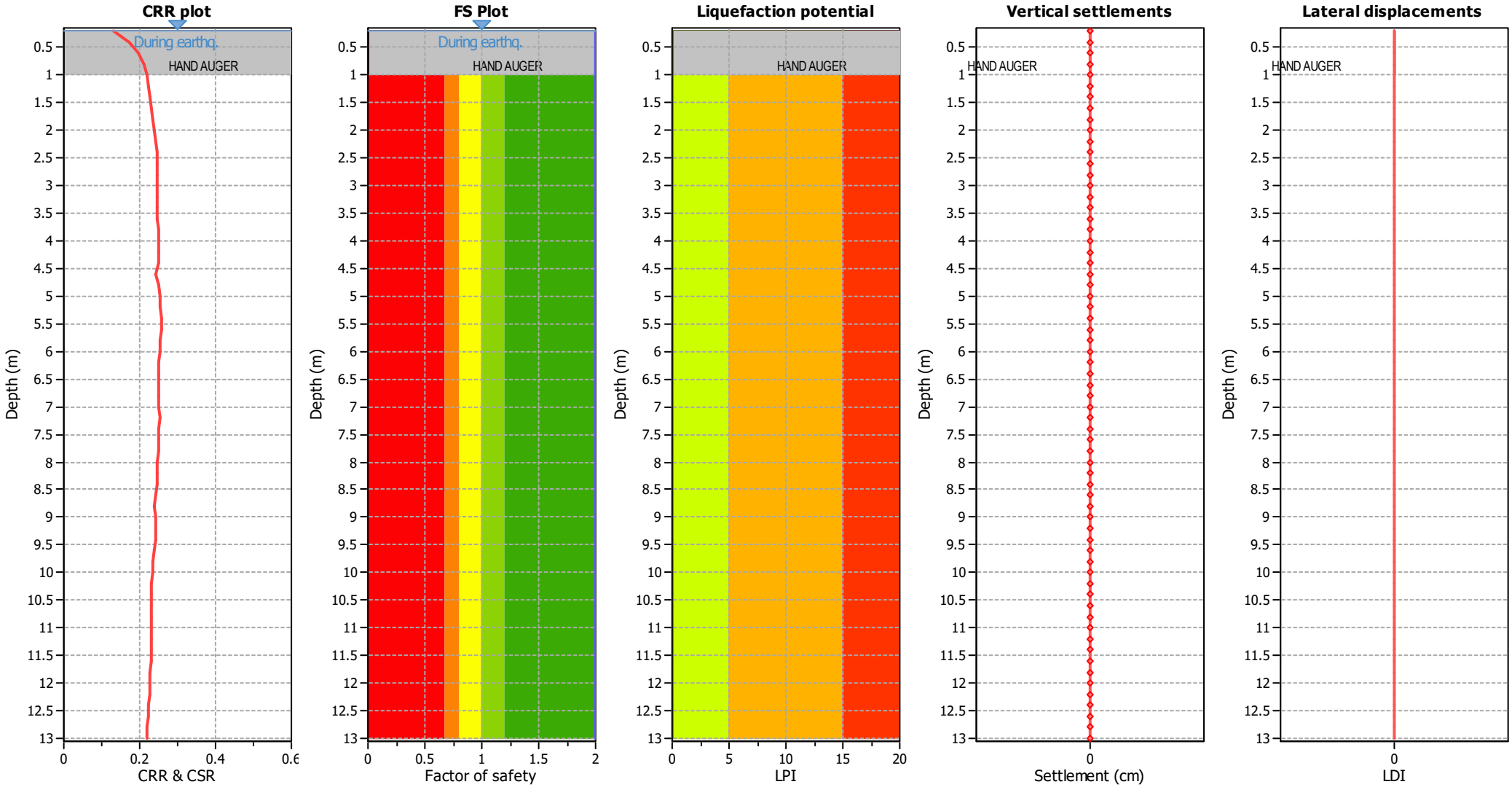






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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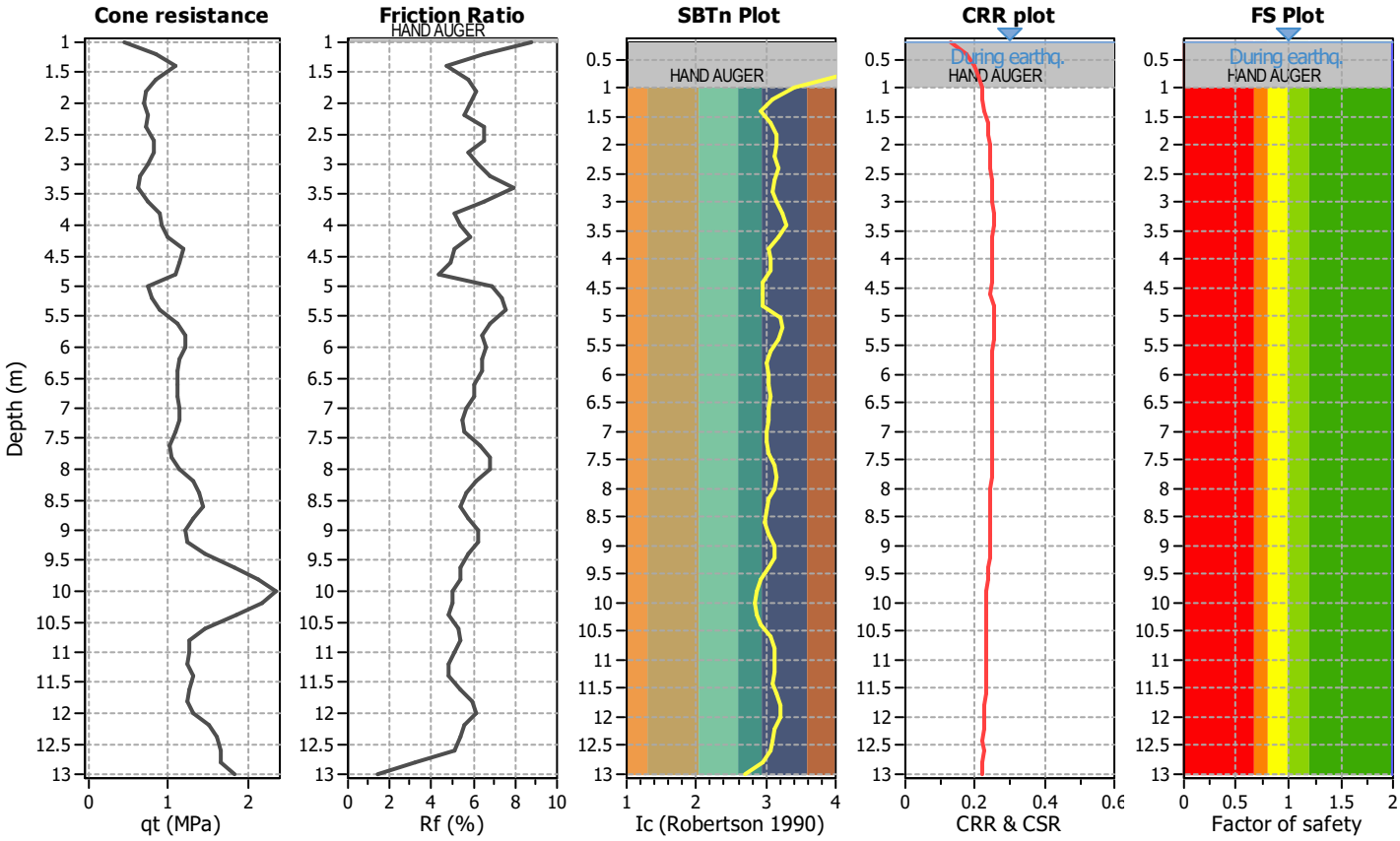
LIQUEFACTION ANALYSIS REPORT

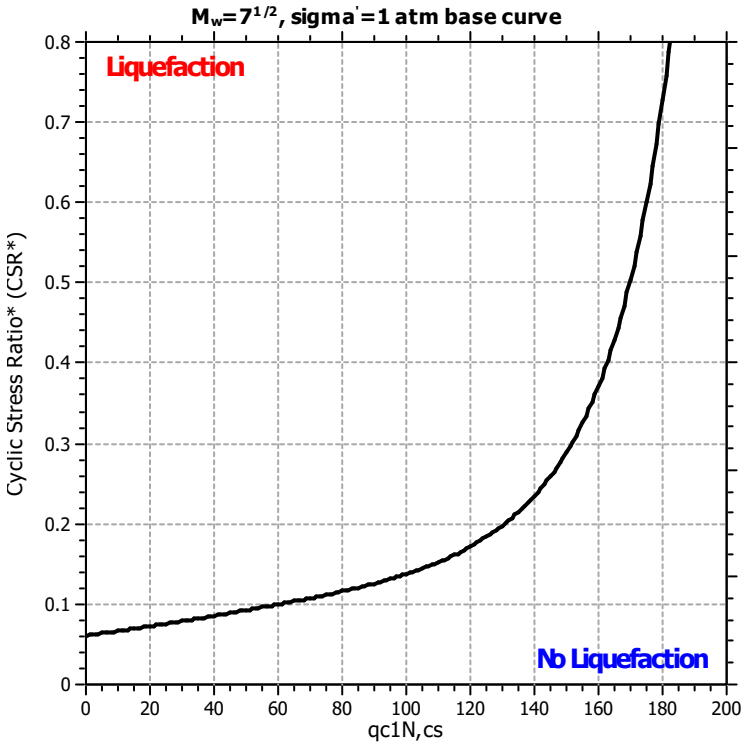
Project title : **Location :**

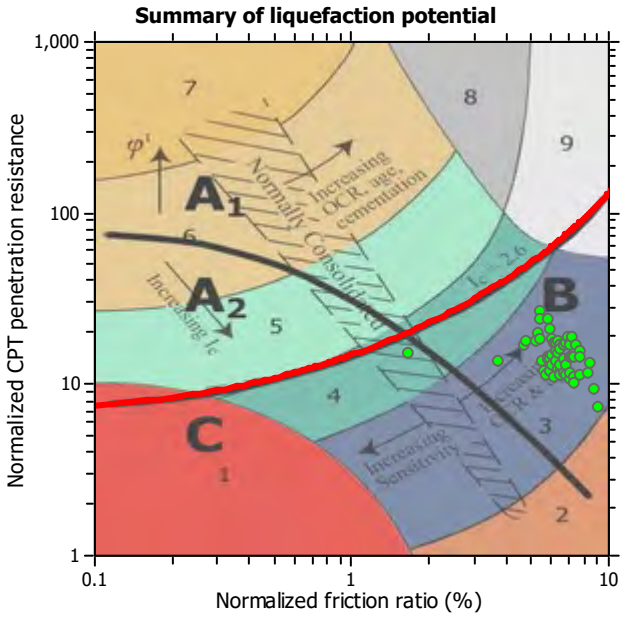
CPT file : SP200

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

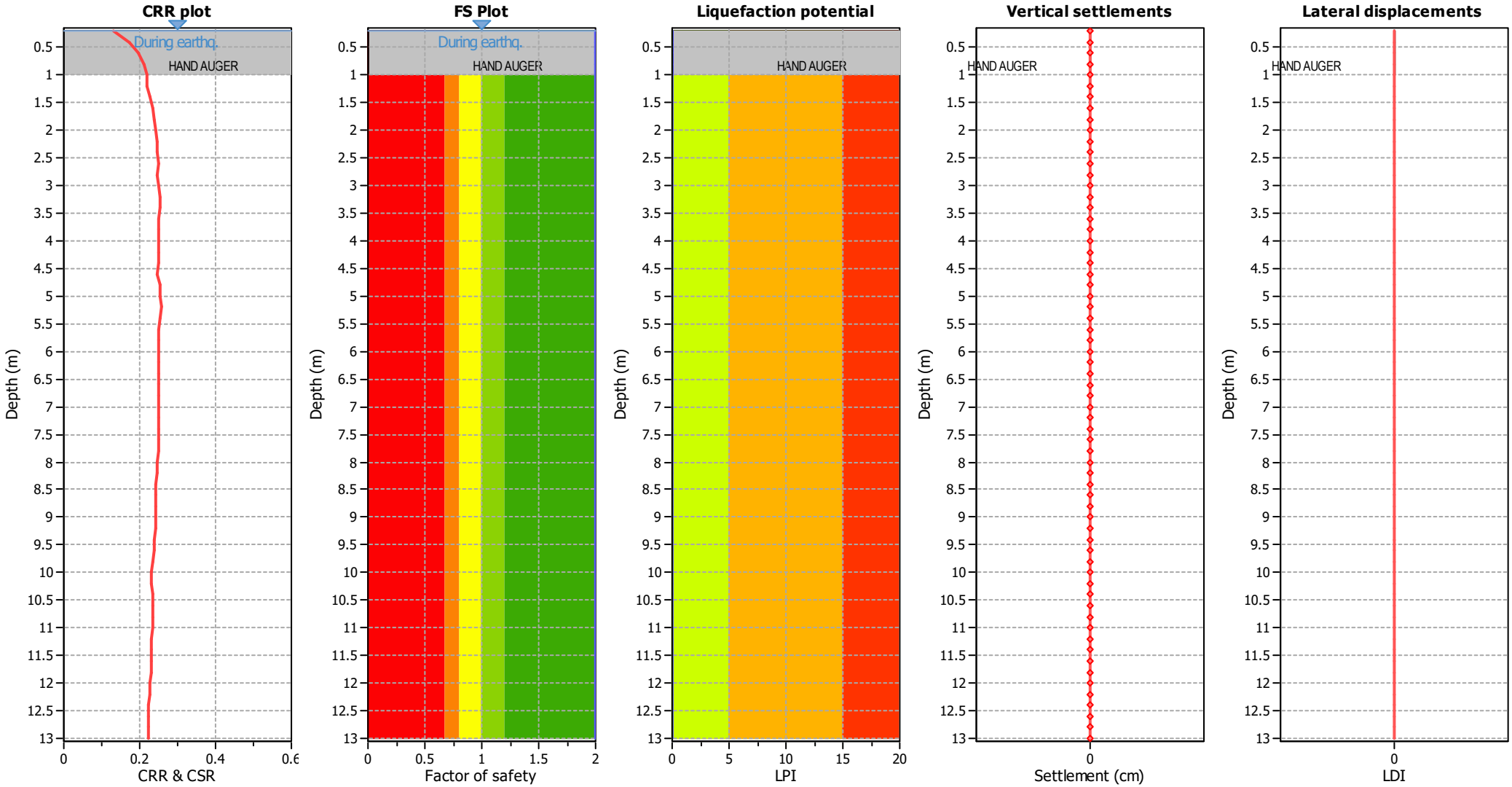






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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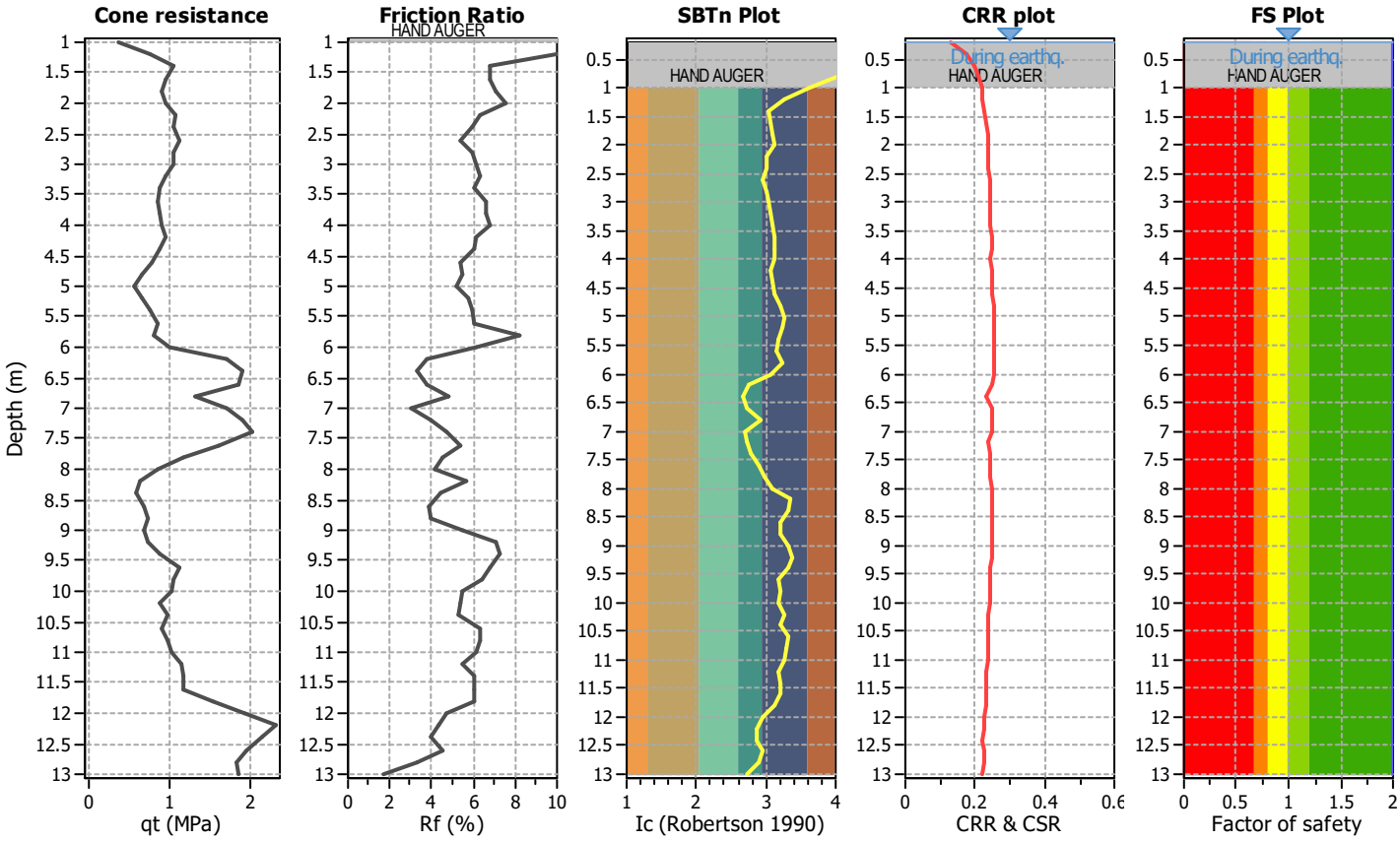
LIQUEFACTION ANALYSIS REPORT

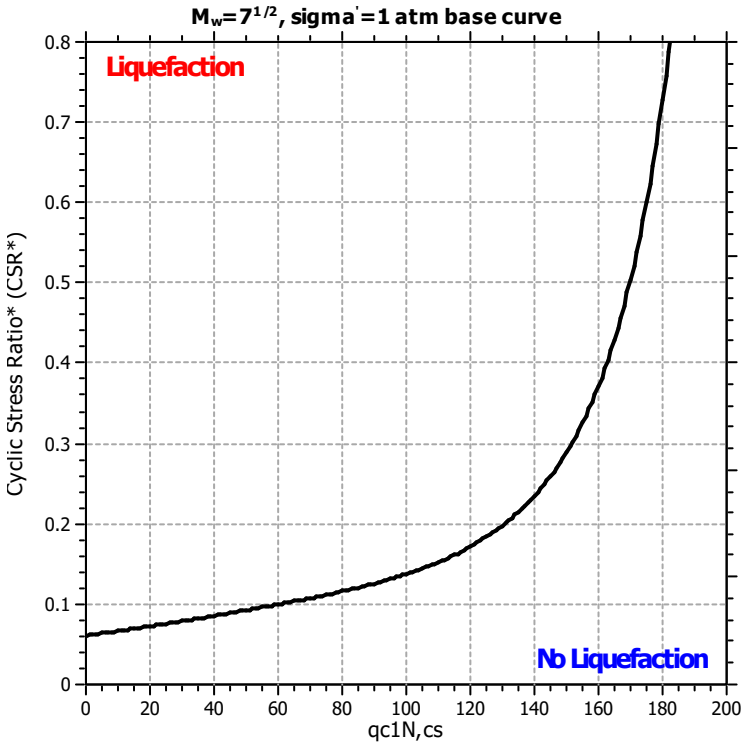
Project title : **Location :**

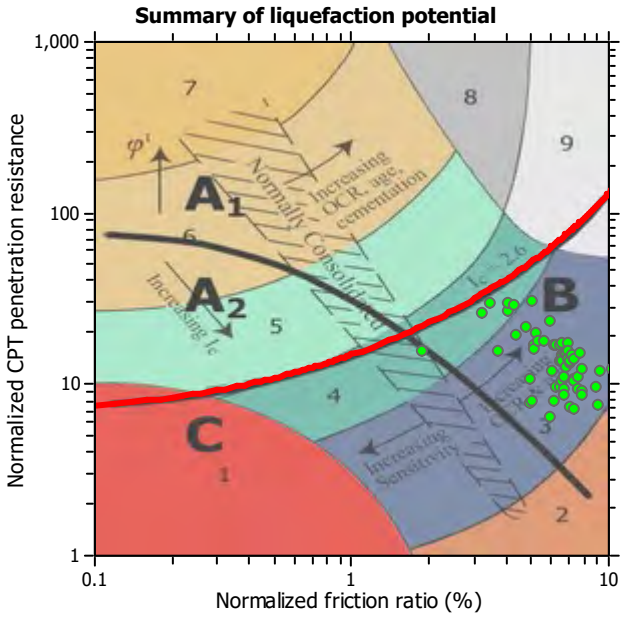
CPT file : SP201

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

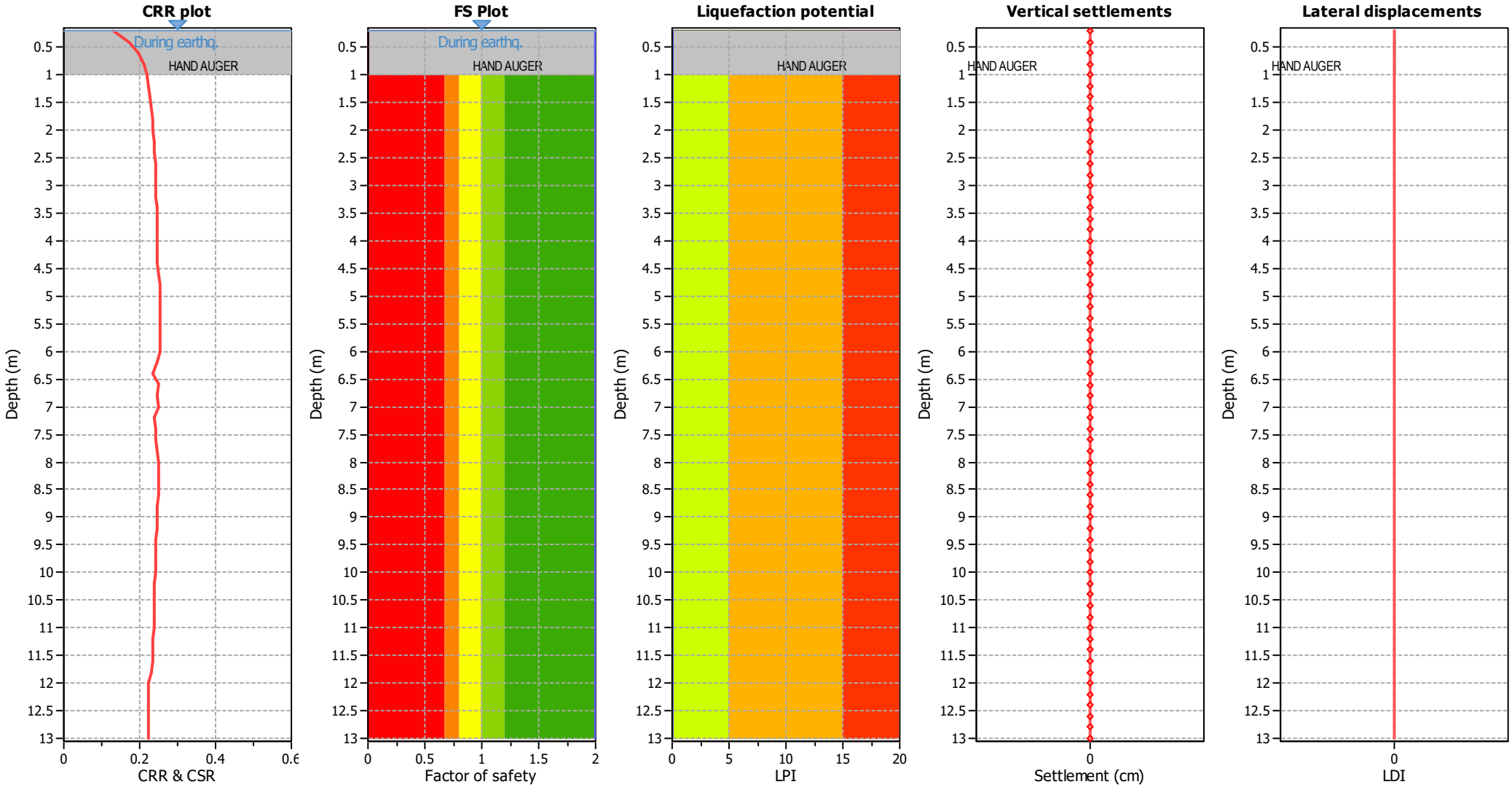






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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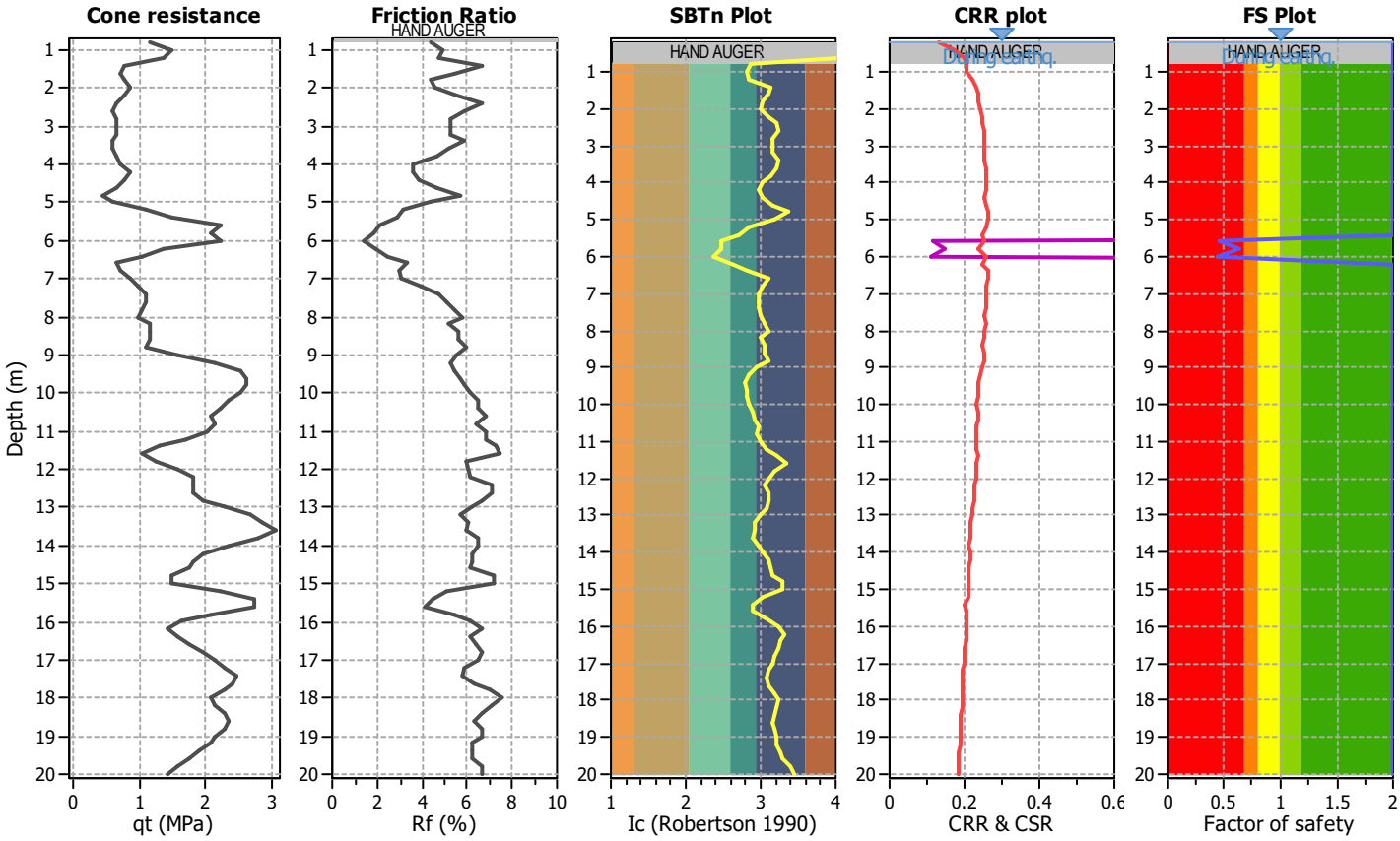
LIQUEFACTION ANALYSIS REPORT

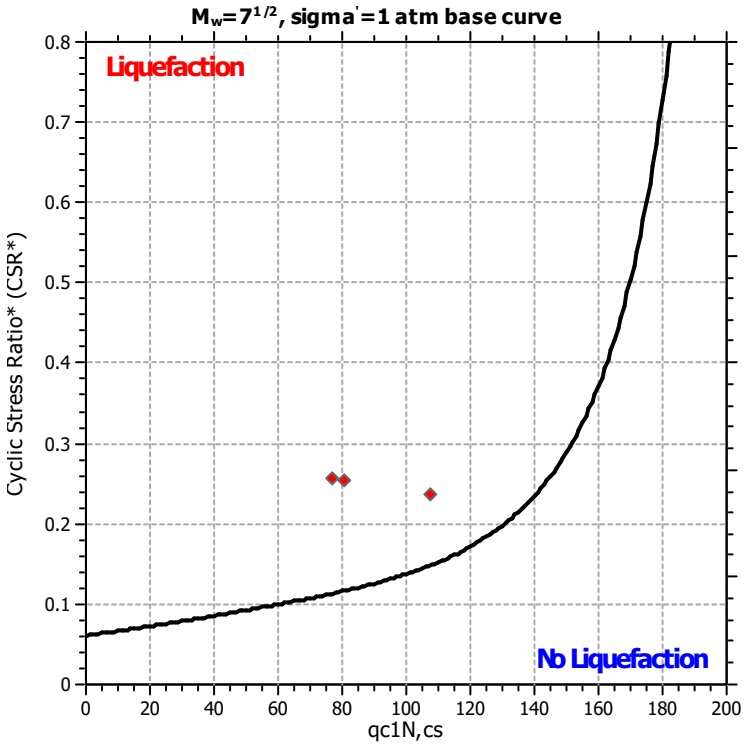
Project title : **Location :**

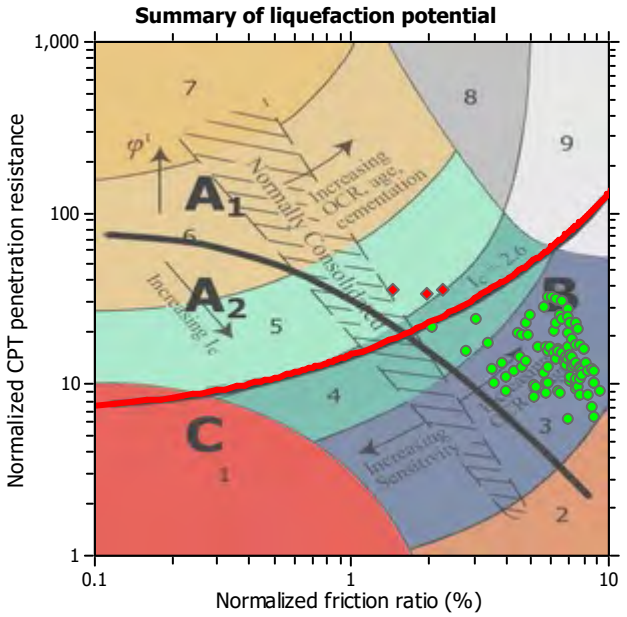
CPT file : SP202

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

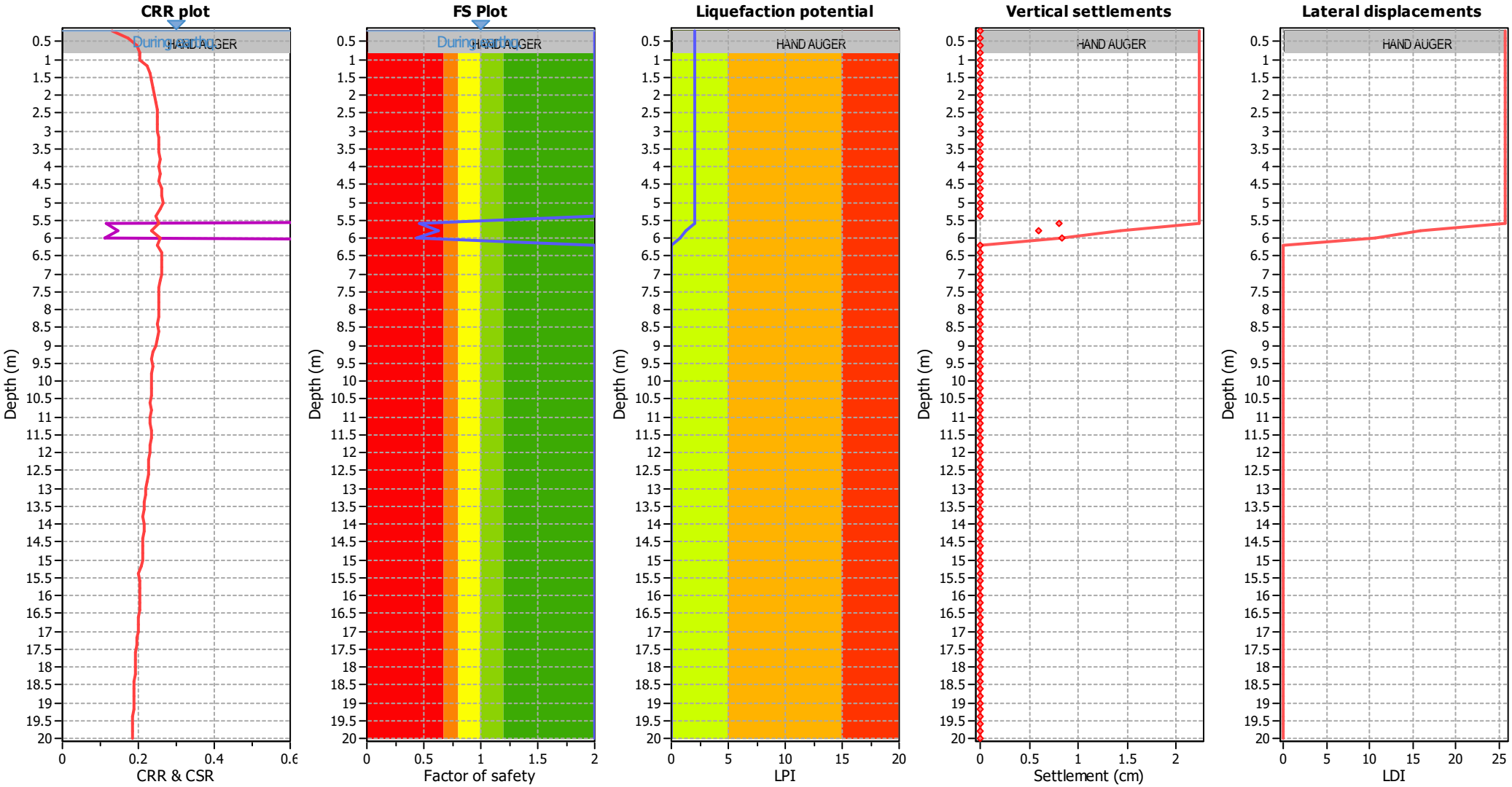






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	0.46	0.54	0.43	0.20	0.78
5.80	0.63	0.00	0.00	0.20	0.53	6.00	0.44	0.56	0.42	0.20	0.78
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.10

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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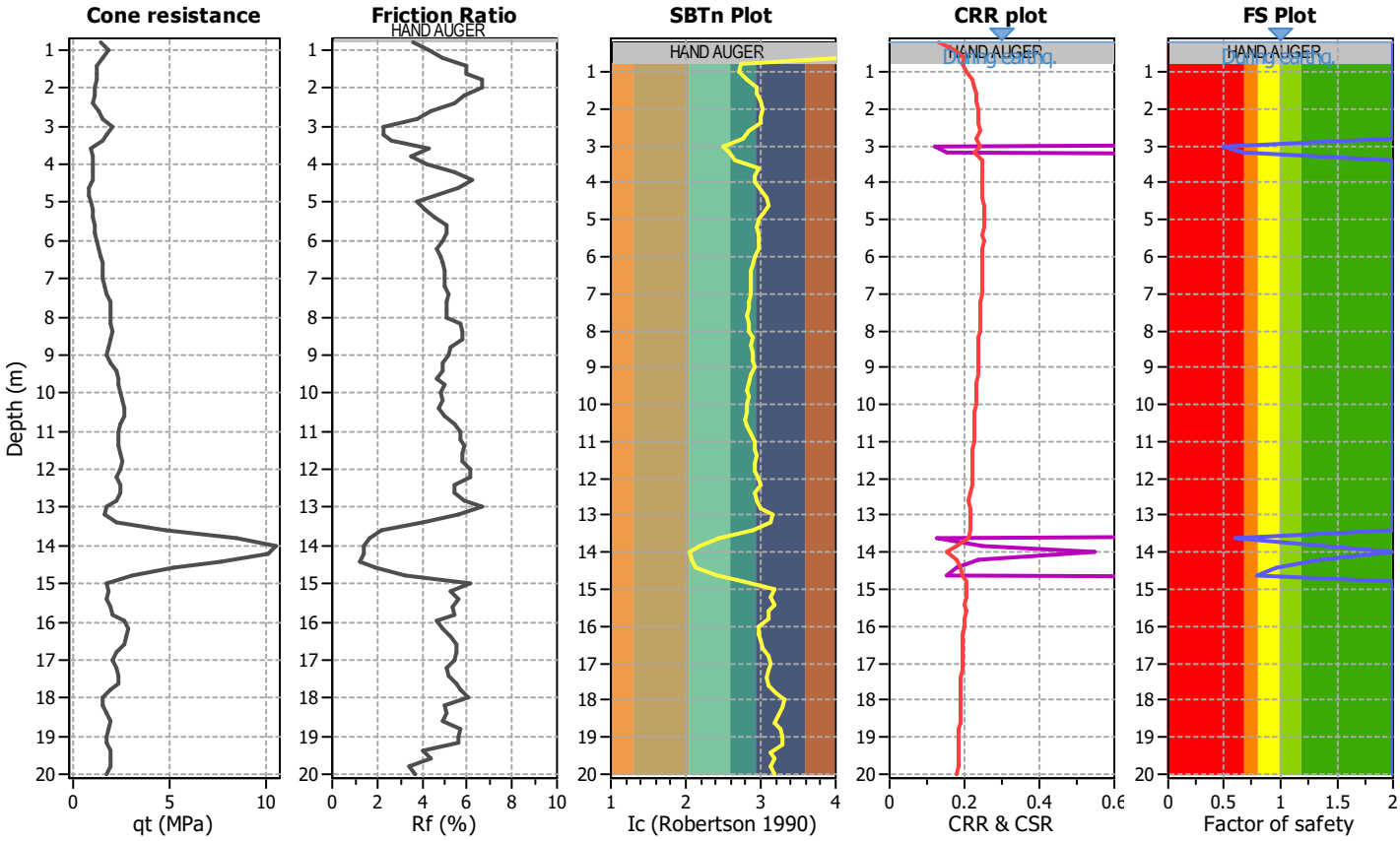
LIQUEFACTION ANALYSIS REPORT

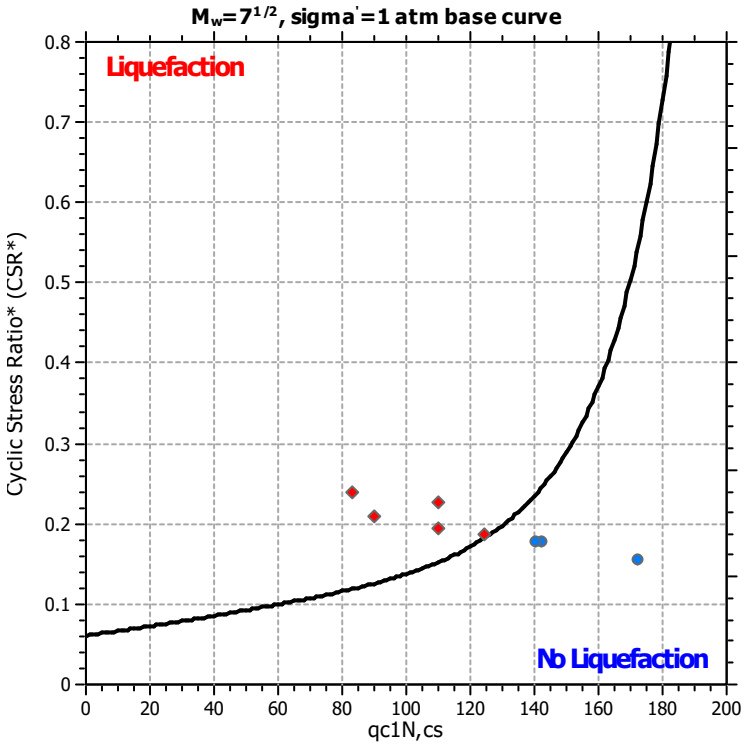
Project title : **Location :**

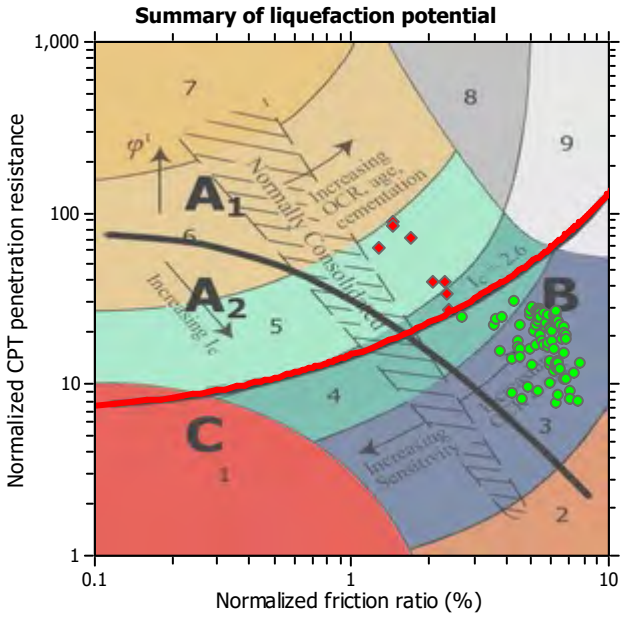
CPT file : SP207

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

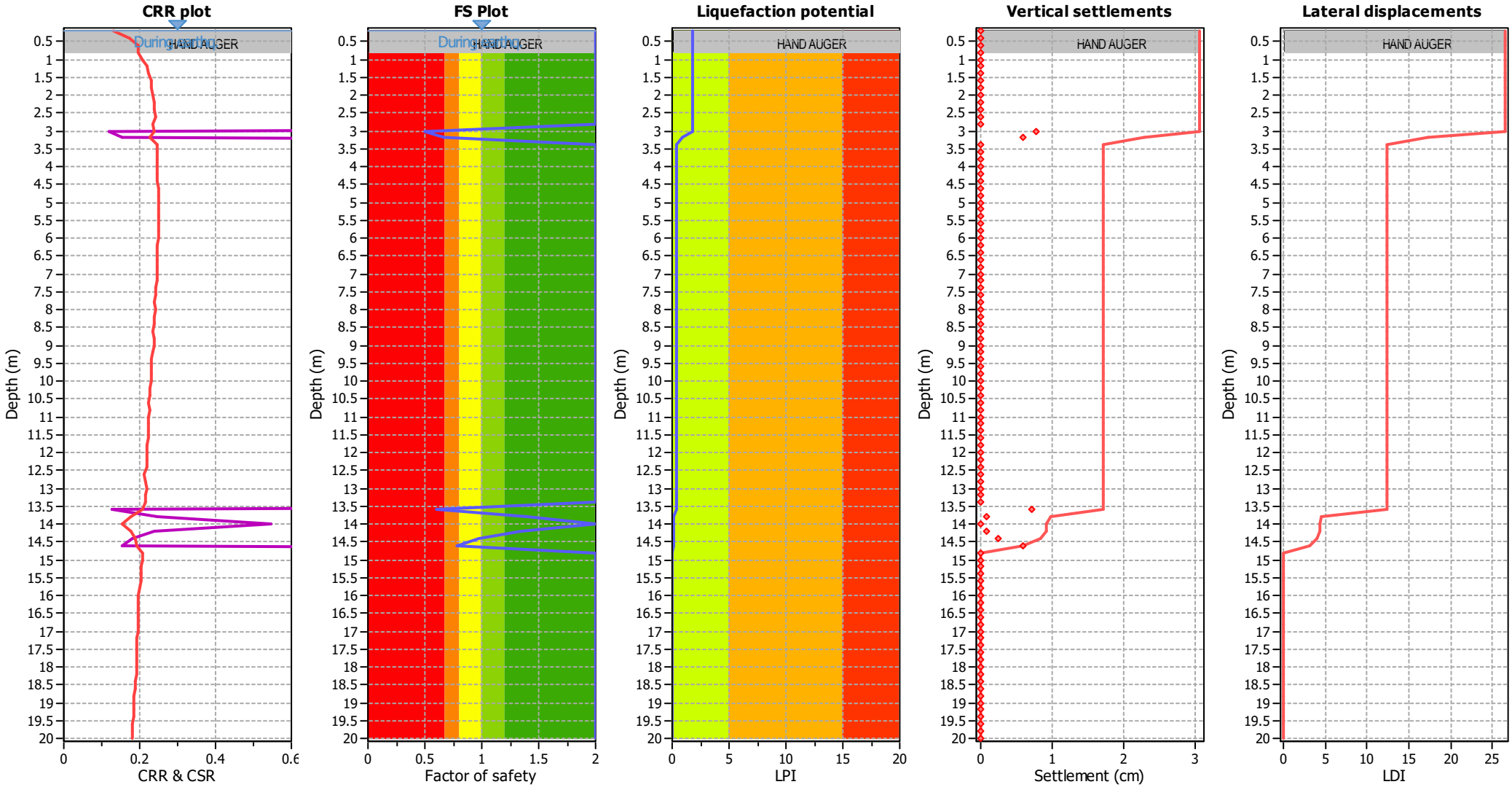






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	0.50	0.50	0.47	0.20	0.86	3.20	0.67	0.33	0.82	0.20	0.55
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	0.60	0.40	0.63	0.20	0.25
13.80	1.39	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	1.34	0.00	0.00	0.20	0.00	14.40	0.97	0.03	477.30	0.20	0.02
14.60	0.78	0.22	1.47	0.20	0.12	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.80

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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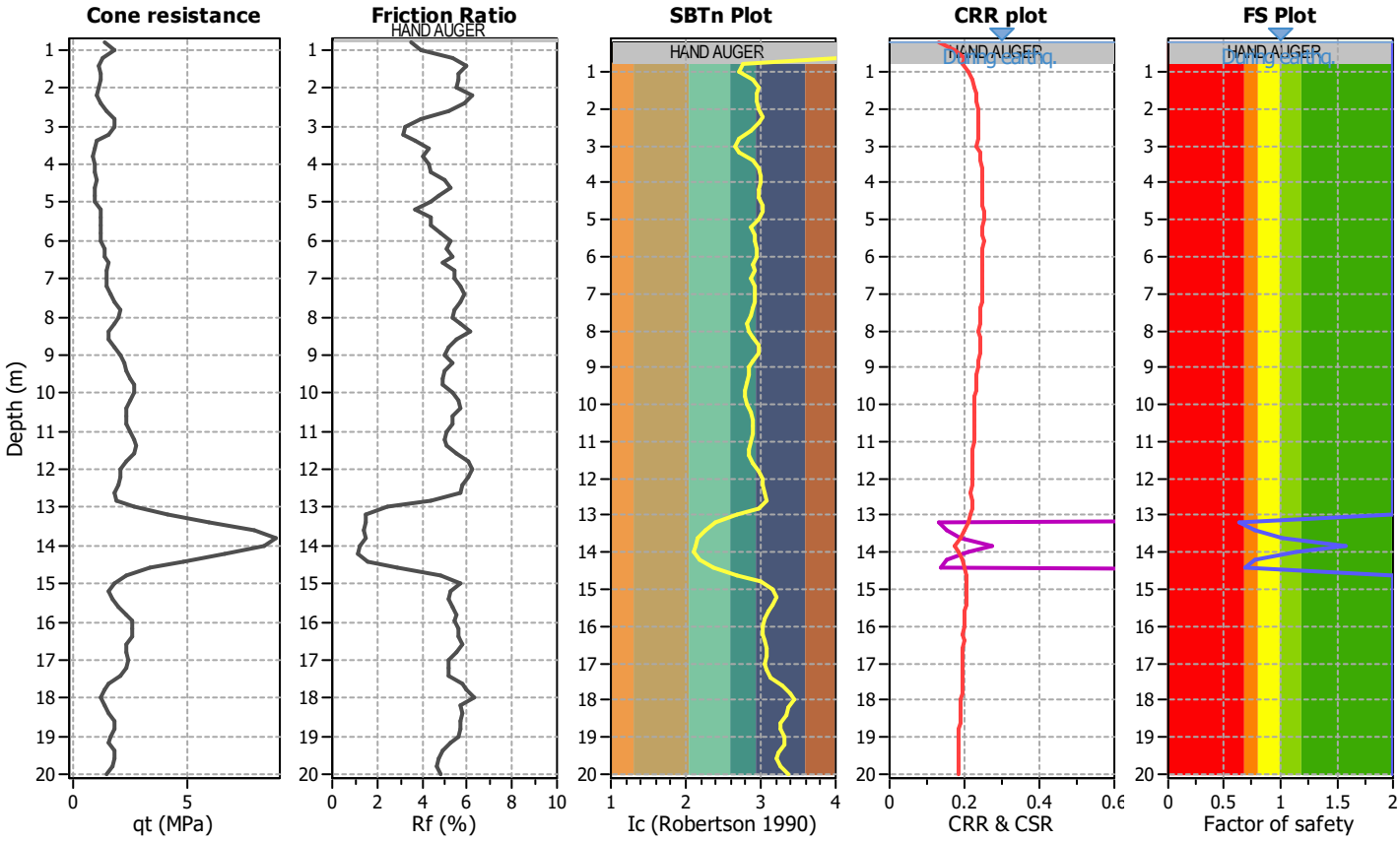
LIQUEFACTION ANALYSIS REPORT

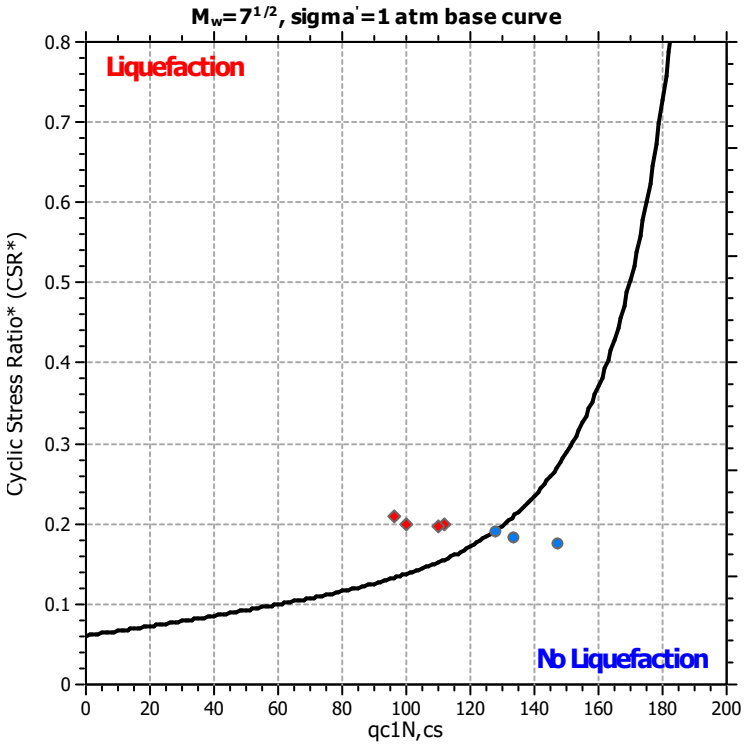
Project title : **Location :**

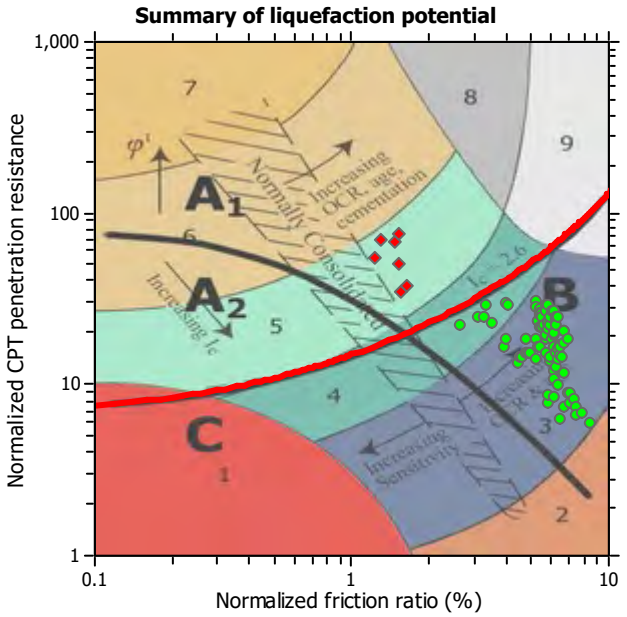
CPT file : SP208

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

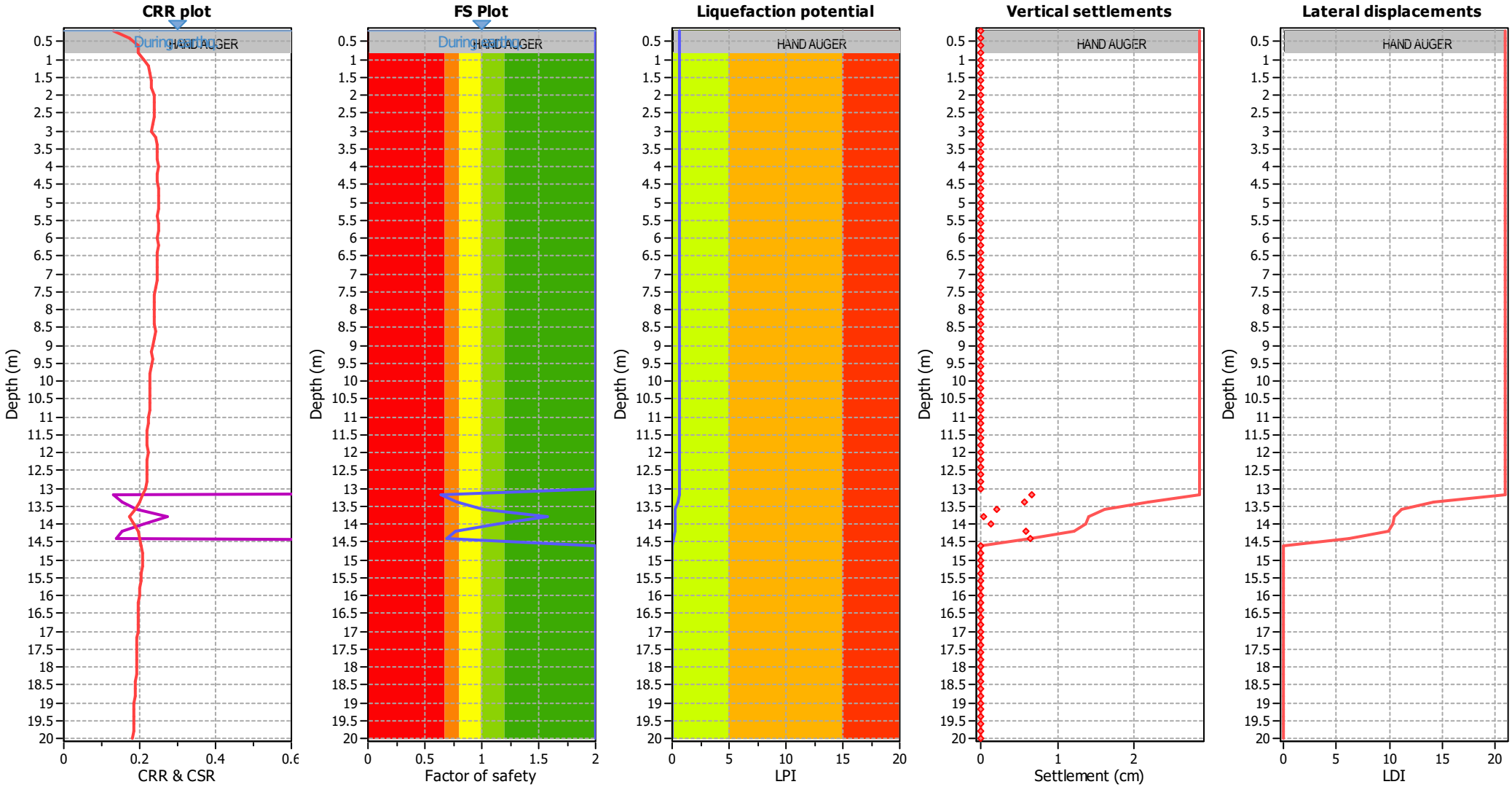






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	0.64	0.36	0.71	0.20	0.25
13.40	0.78	0.22	1.41	0.20	0.15	13.60	1.02	0.00	0.00	0.20	0.00
13.80	1.58	0.00	0.00	0.20	0.00	14.00	1.15	0.00	0.00	0.20	0.00
14.20	0.77	0.23	1.37	0.20	0.13	14.40	0.69	0.31	0.87	0.20	0.17
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.70

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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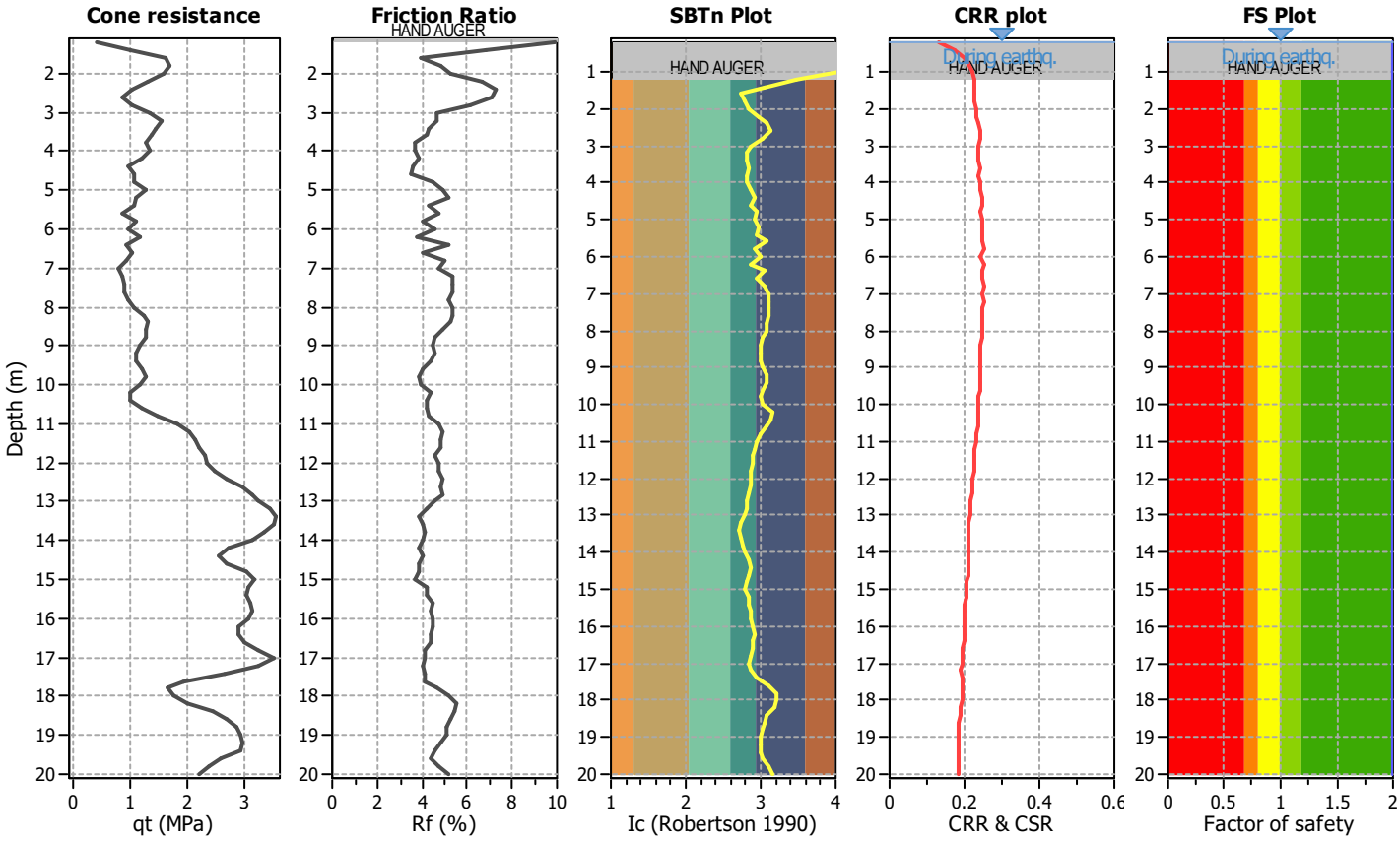
LIQUEFACTION ANALYSIS REPORT

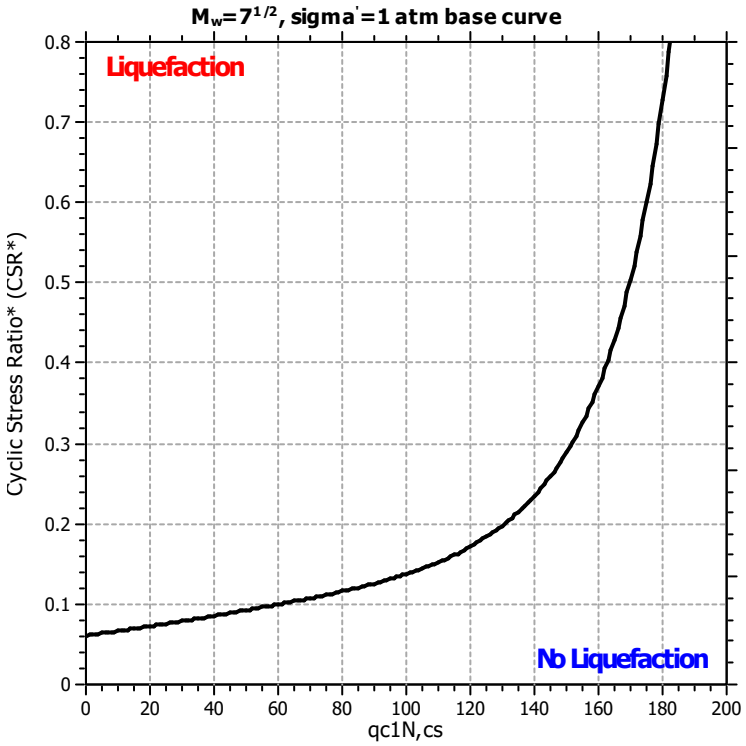
Project title : **Location :**

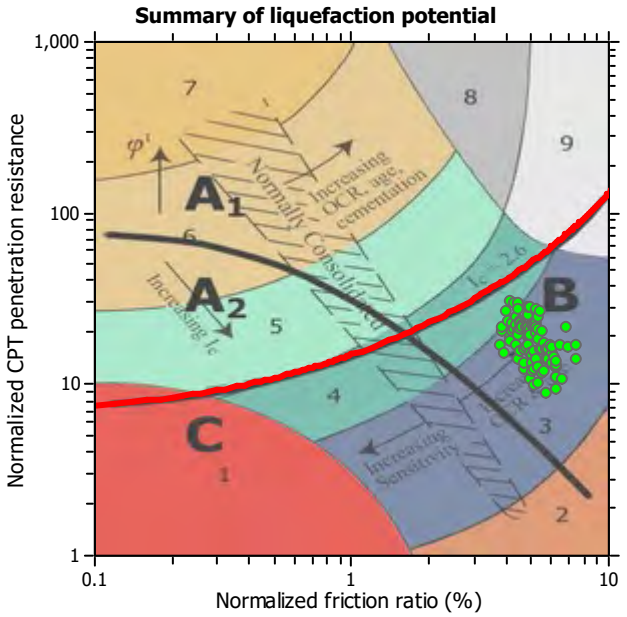
CPT file : SP209

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

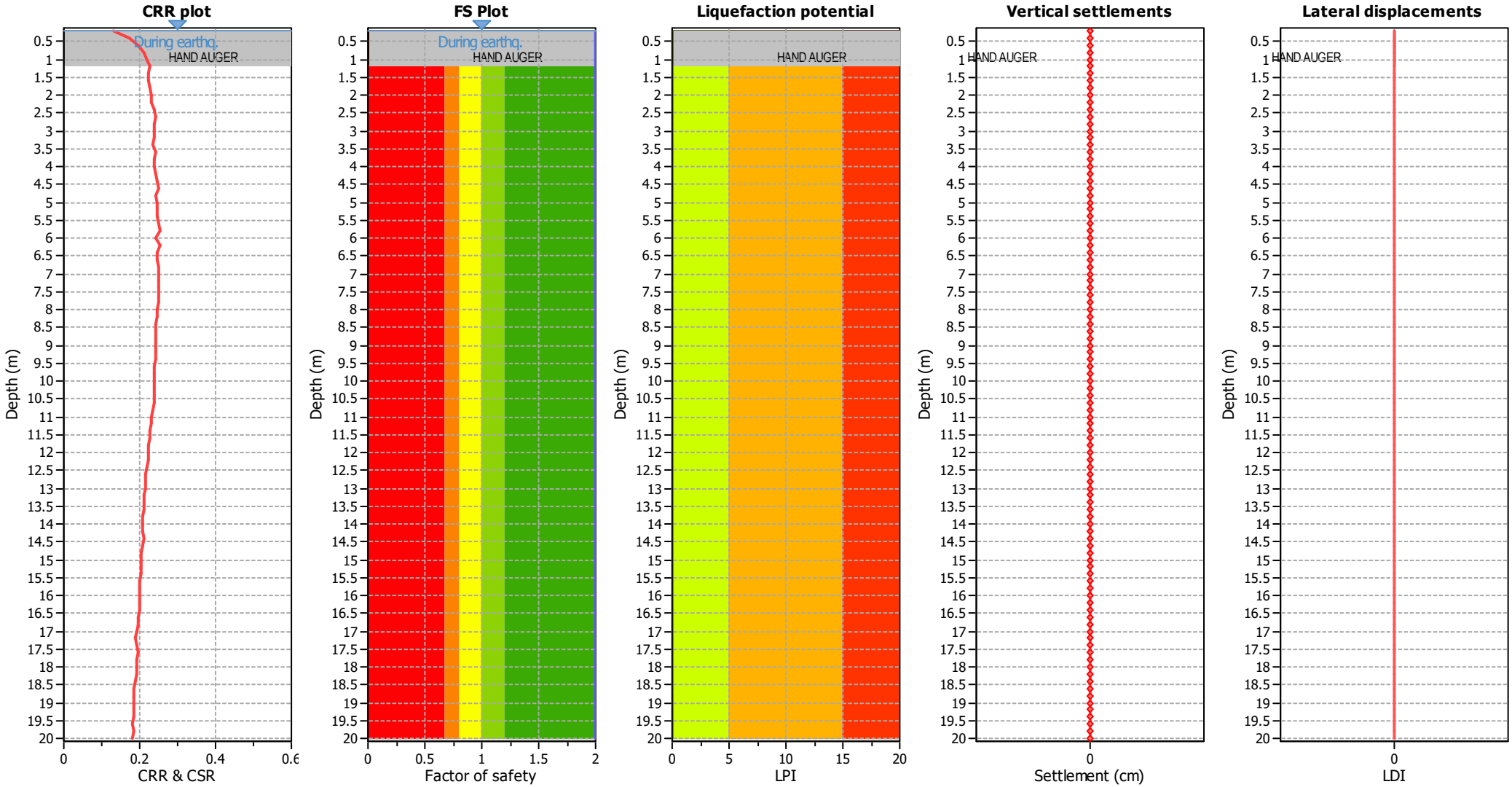






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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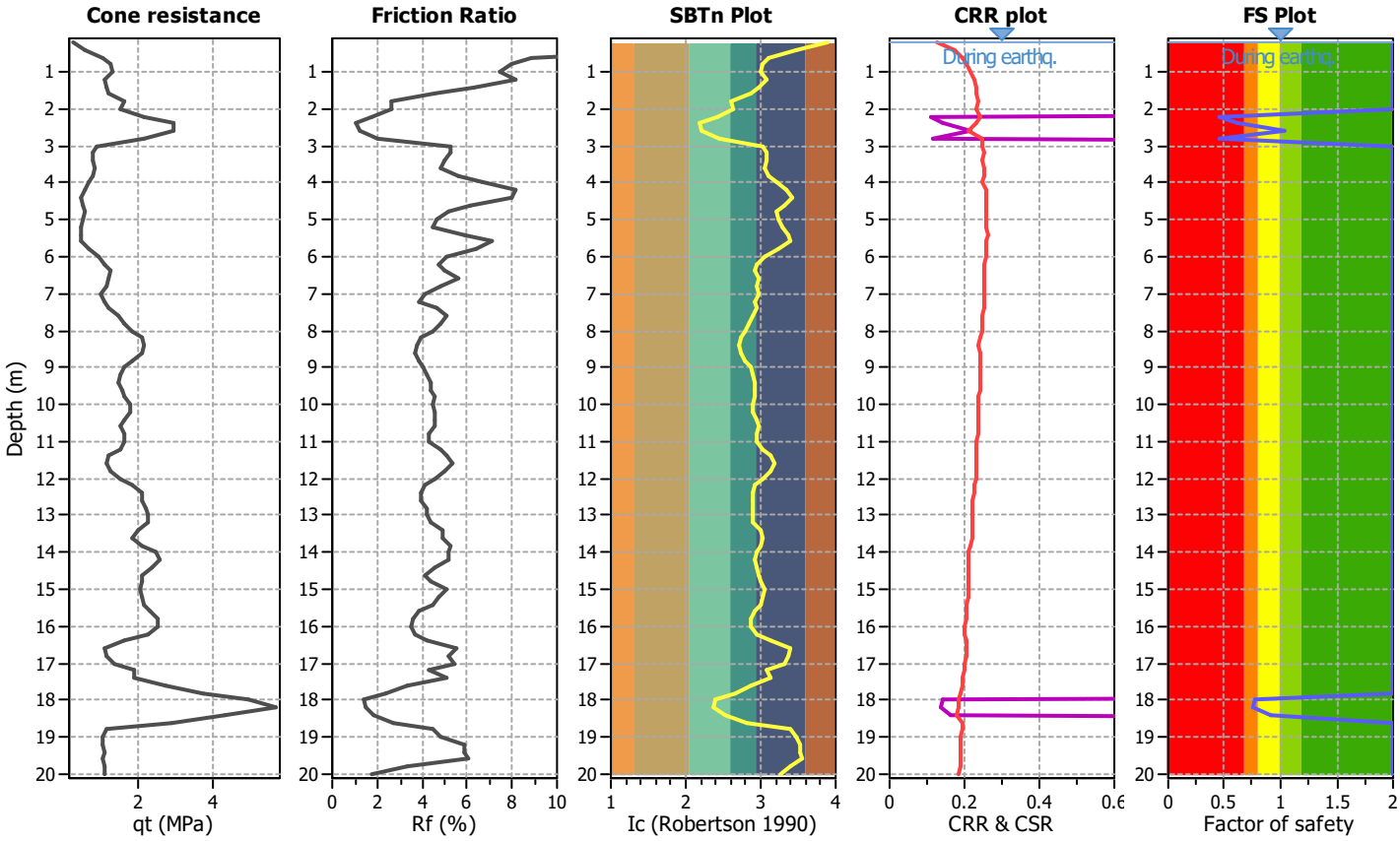
LIQUEFACTION ANALYSIS REPORT

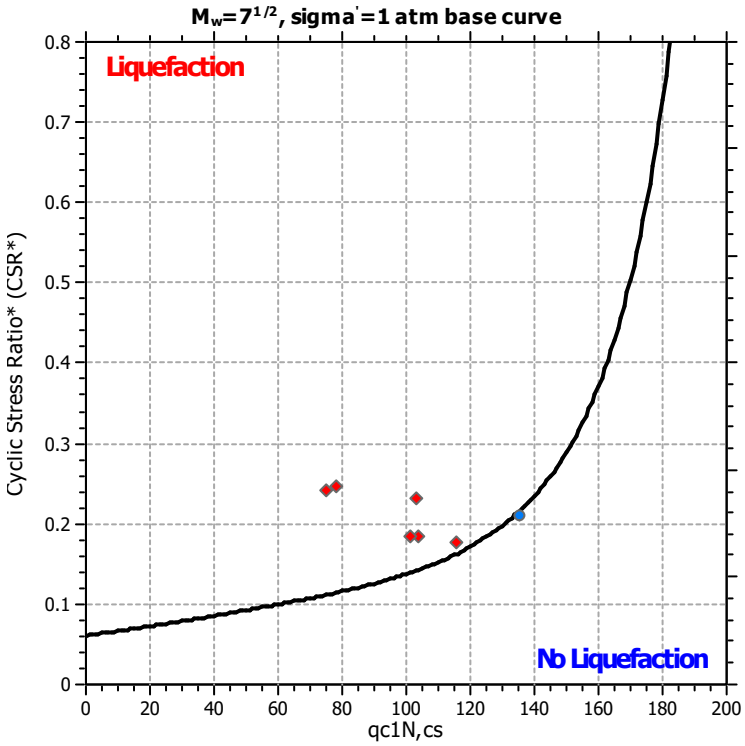
Project title : **Location :**

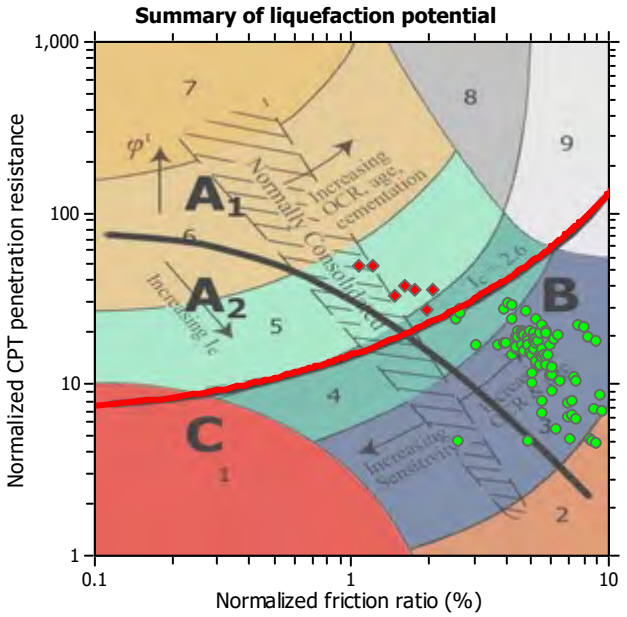
CPT file : SP212

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

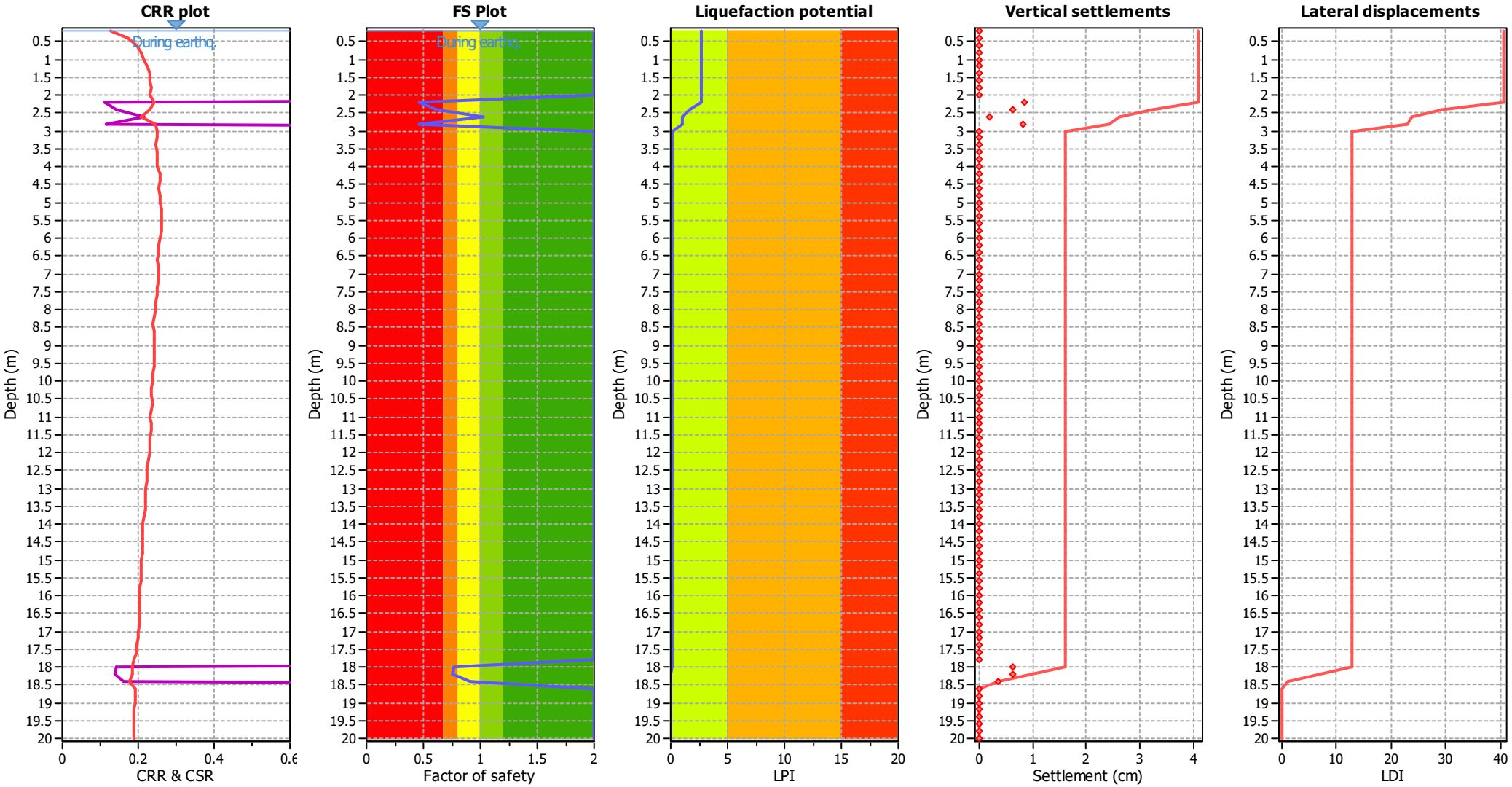






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	0.46	0.00	0.00	0.20	0.96	2.40	0.61	0.00	0.00	0.20	0.68
2.60	1.03	0.00	0.00	0.20	0.00	2.80	0.46	0.00	0.00	0.20	0.92
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	0.77	0.00	0.00	0.20	0.05
18.20	0.75	0.00	0.00	0.20	0.04	18.40	0.92	0.00	0.00	0.20	0.01
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.67

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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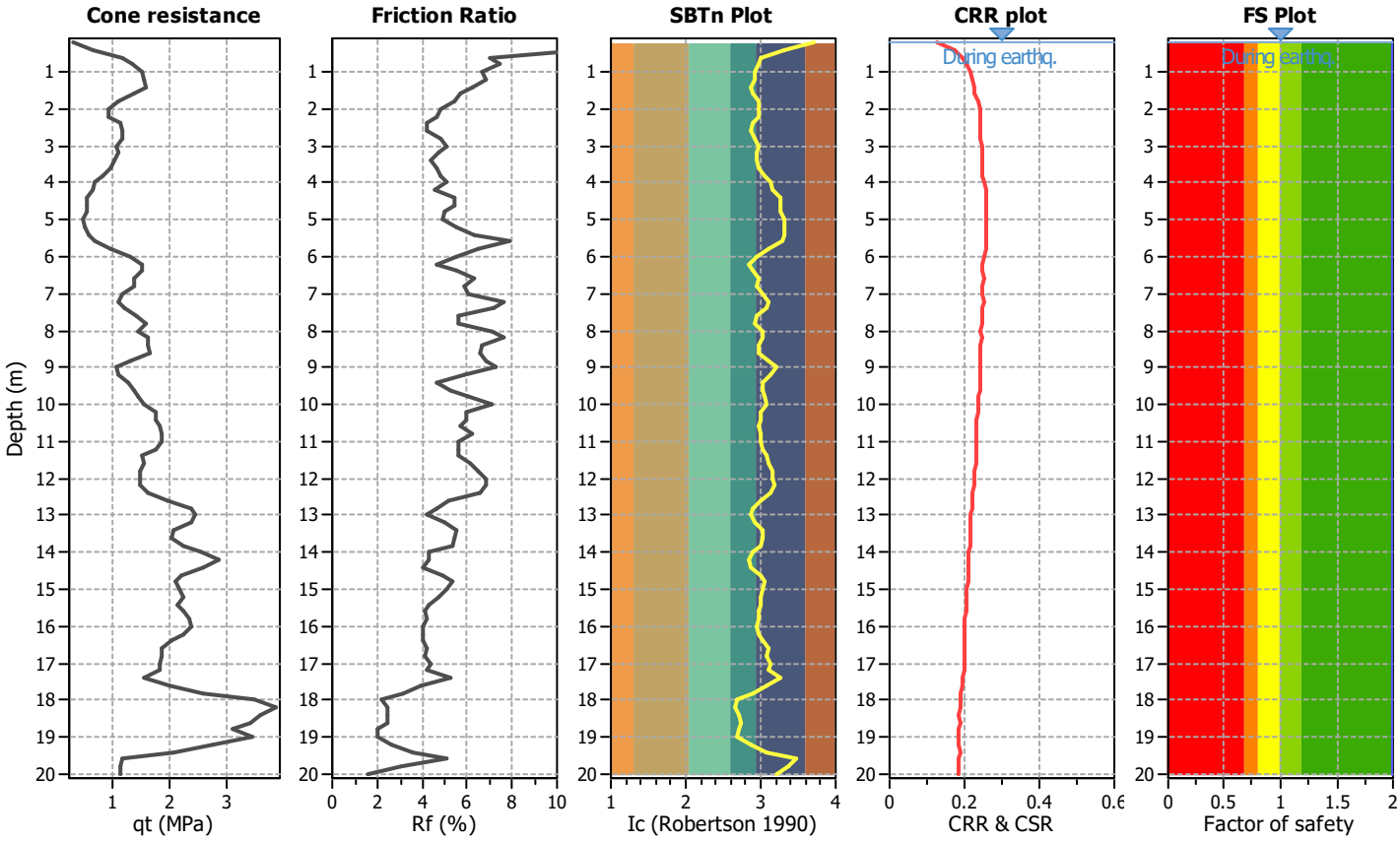
LIQUEFACTION ANALYSIS REPORT

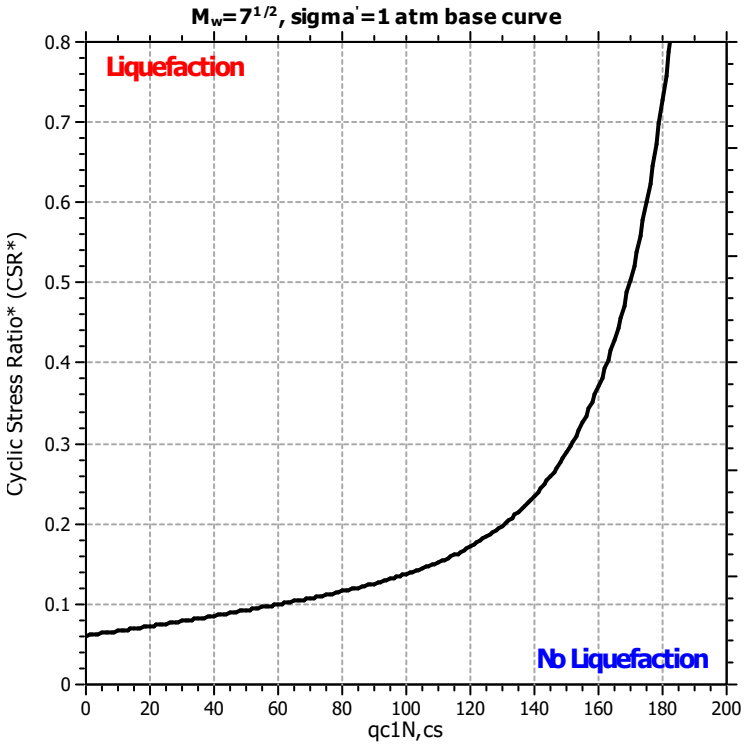
Project title : **Location :**

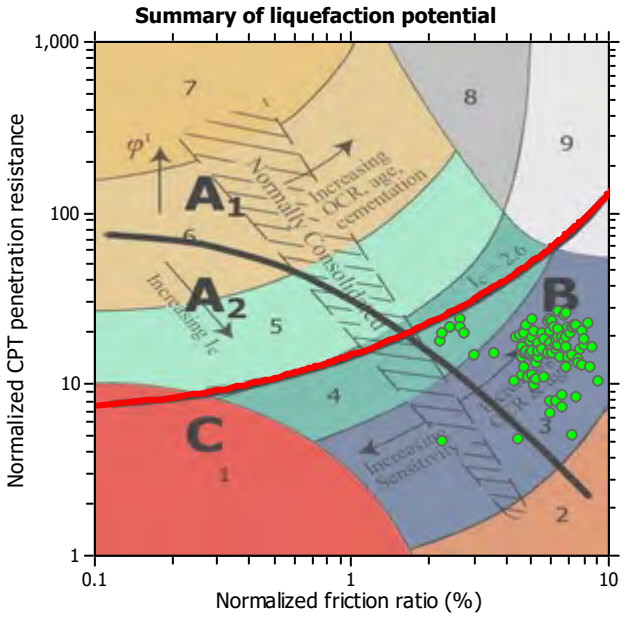
CPT file : SP213

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

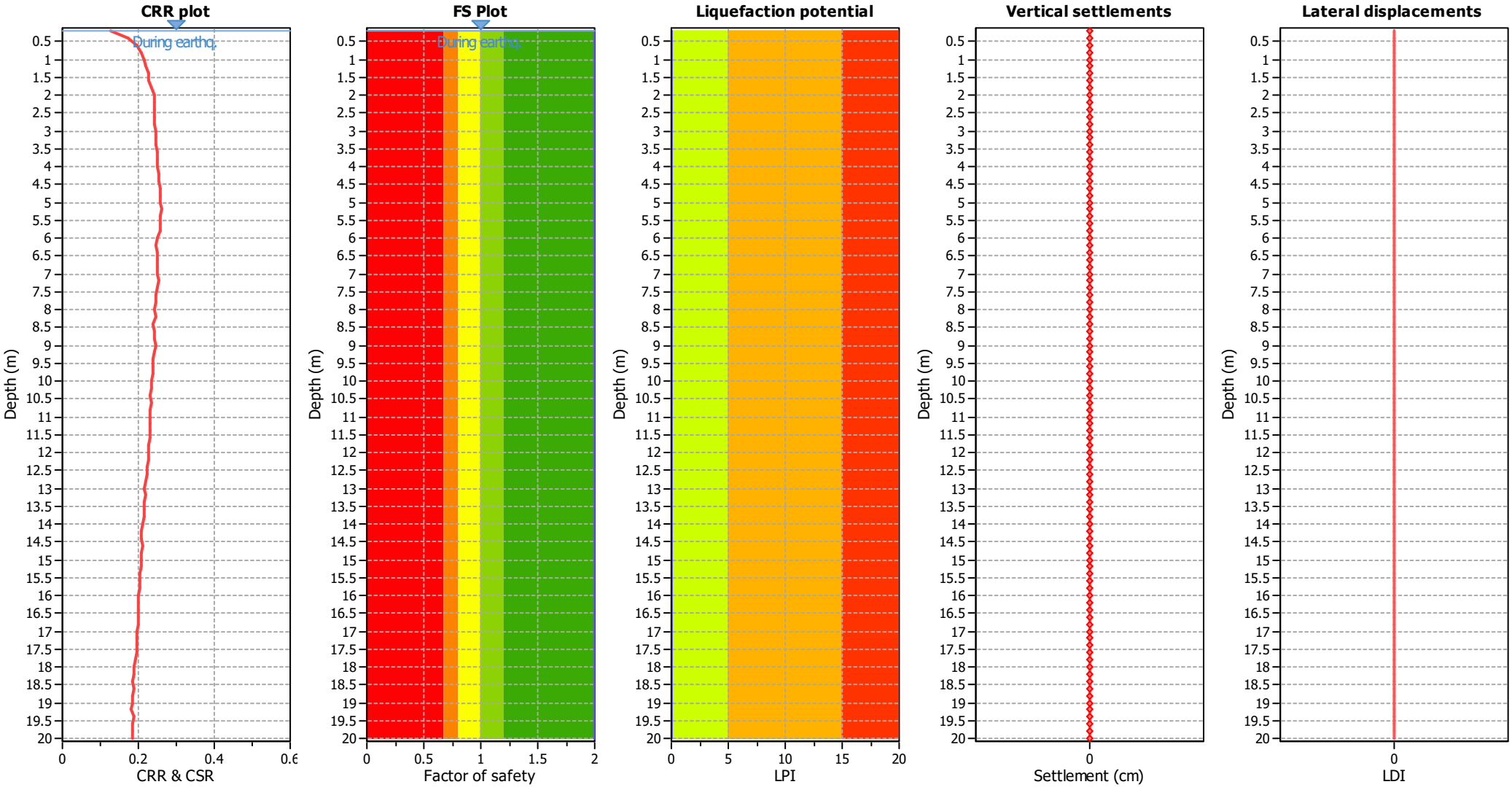






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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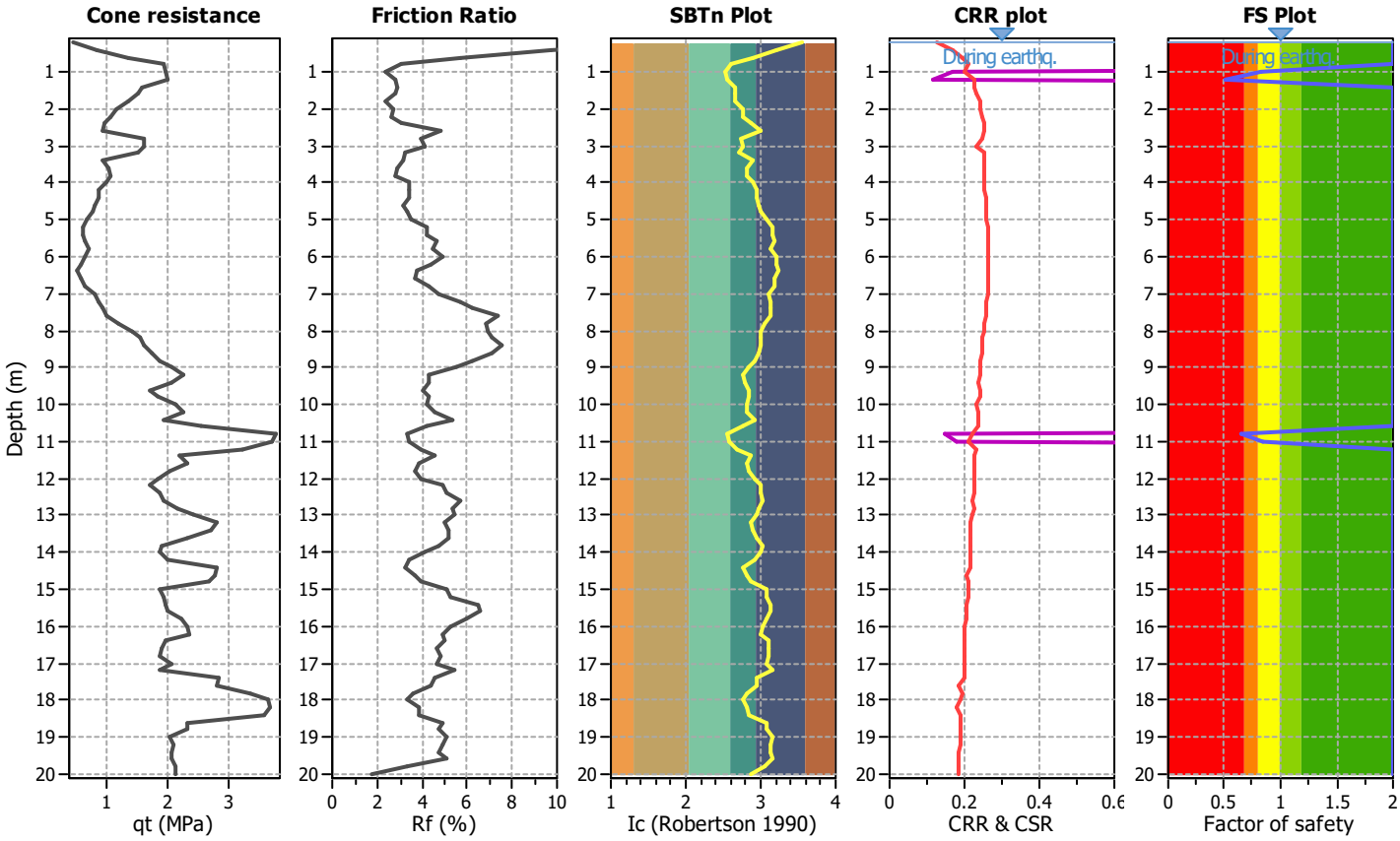
LIQUEFACTION ANALYSIS REPORT

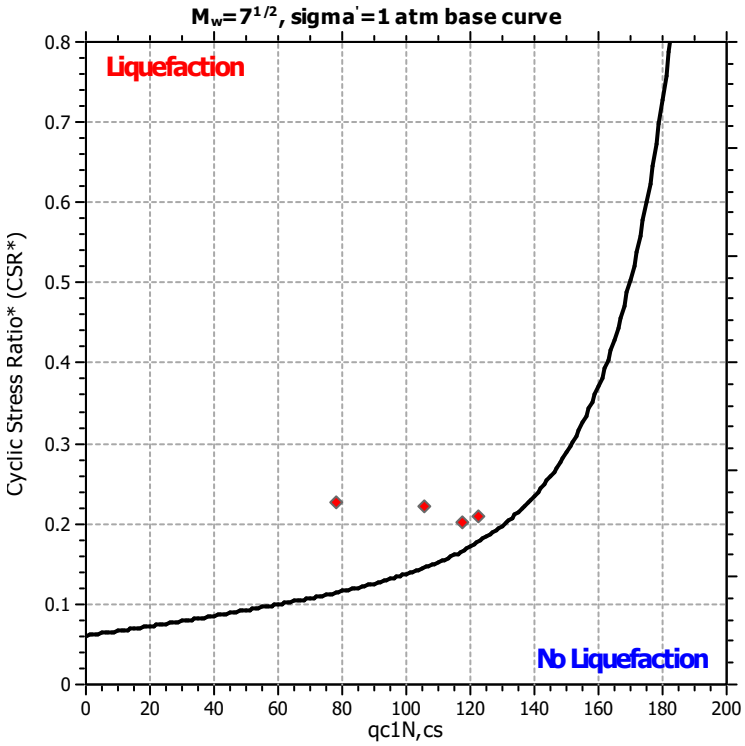
Project title : **Location :**

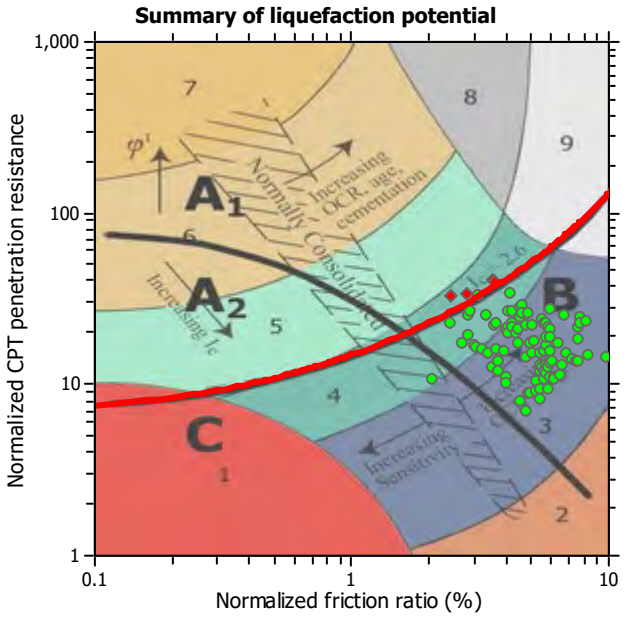
CPT file : SP214

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

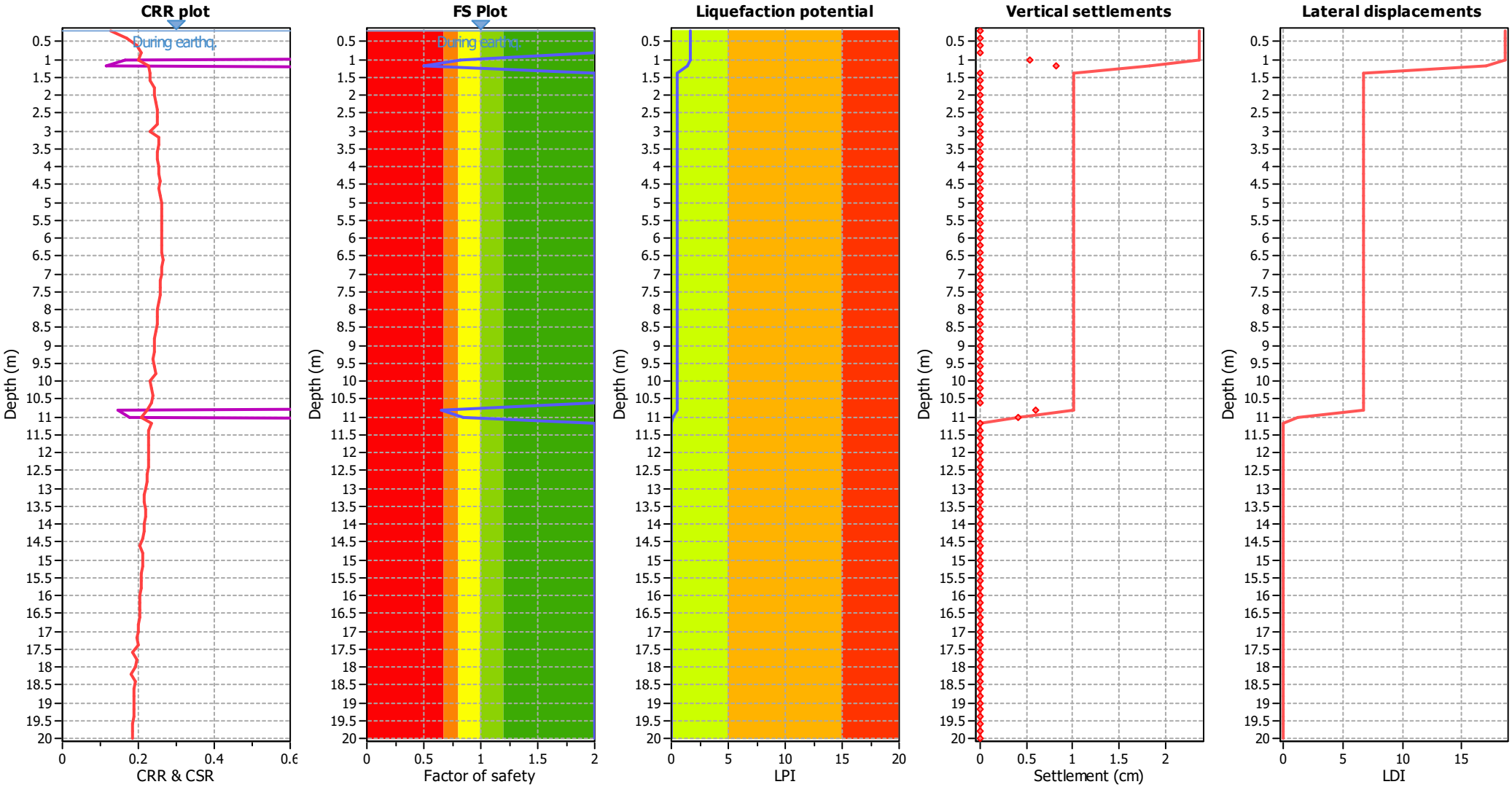






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.82	0.18	2.05	0.20	0.33	1.20	0.50	0.50	0.48	0.20	0.94
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	0.66	0.34	0.77	0.20	0.32
11.00	0.85	0.15	2.67	0.20	0.14	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.72

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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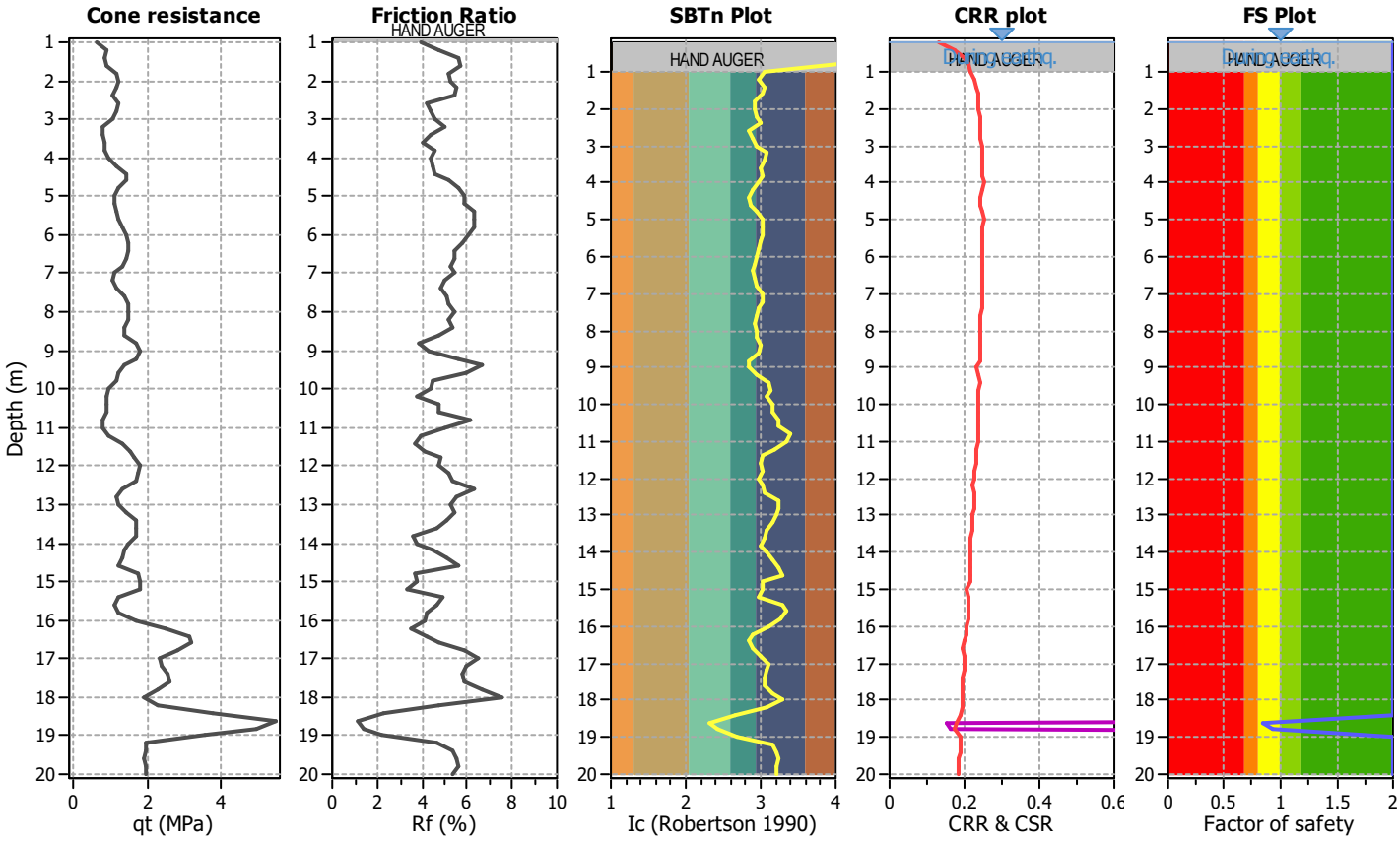
LIQUEFACTION ANALYSIS REPORT

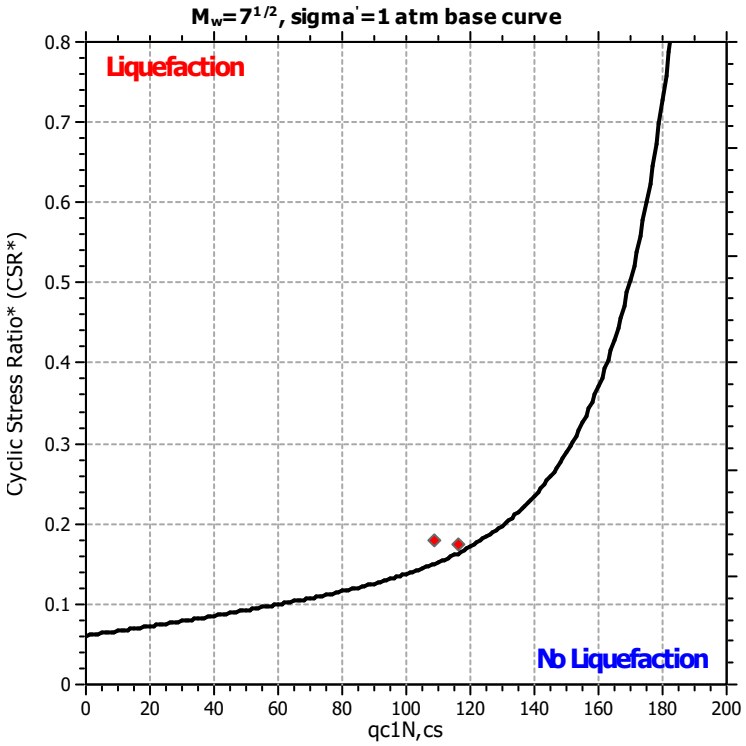
Project title : **Location :**

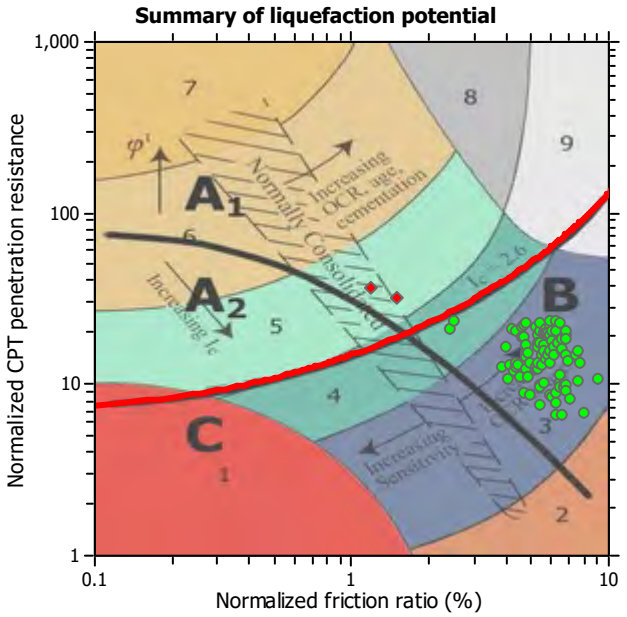
CPT file : SP216

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

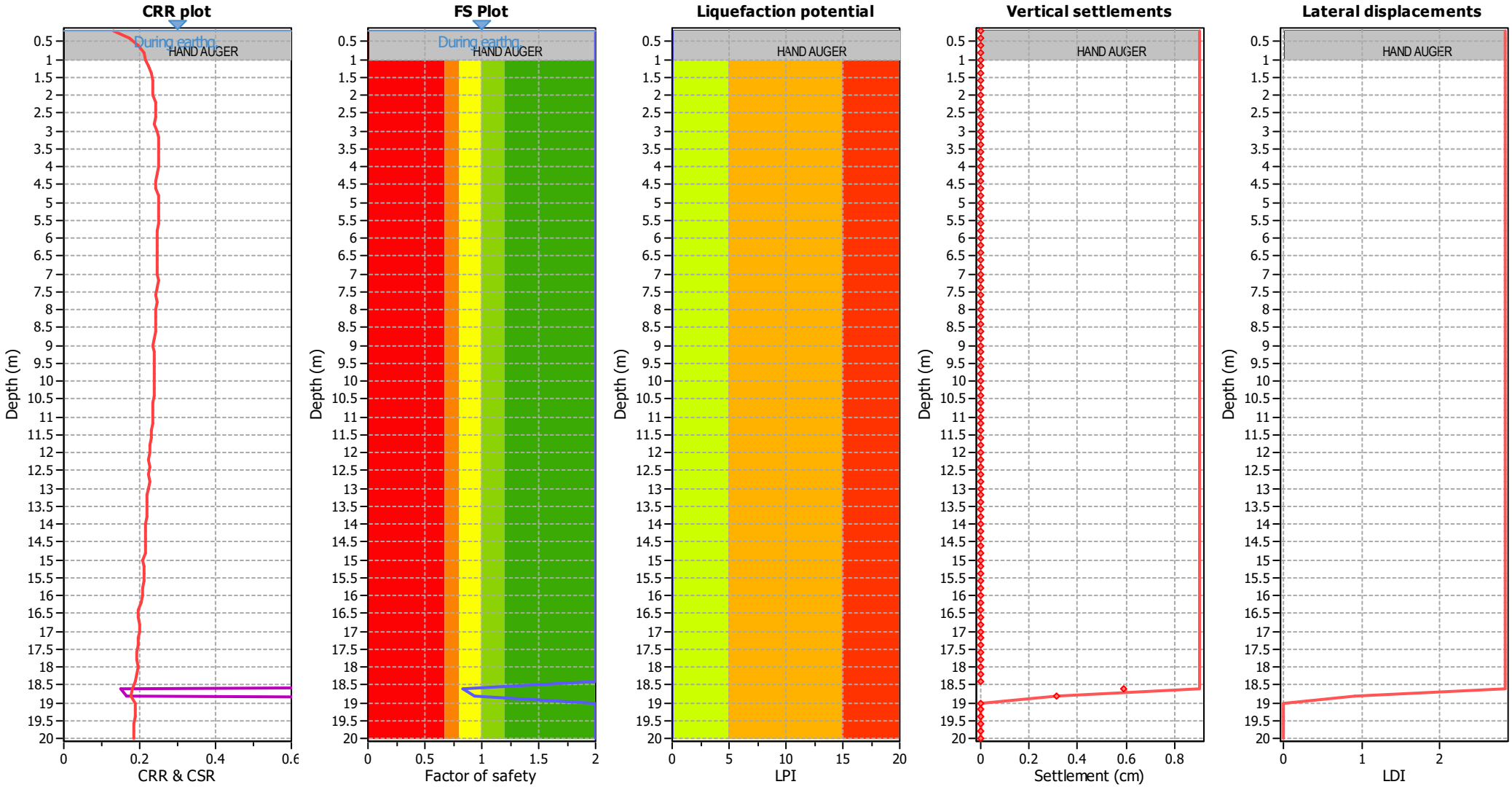






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	0.84	0.16	2.29	0.20	0.02	18.80	0.93	0.07	17.96	0.20	0.01
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.03

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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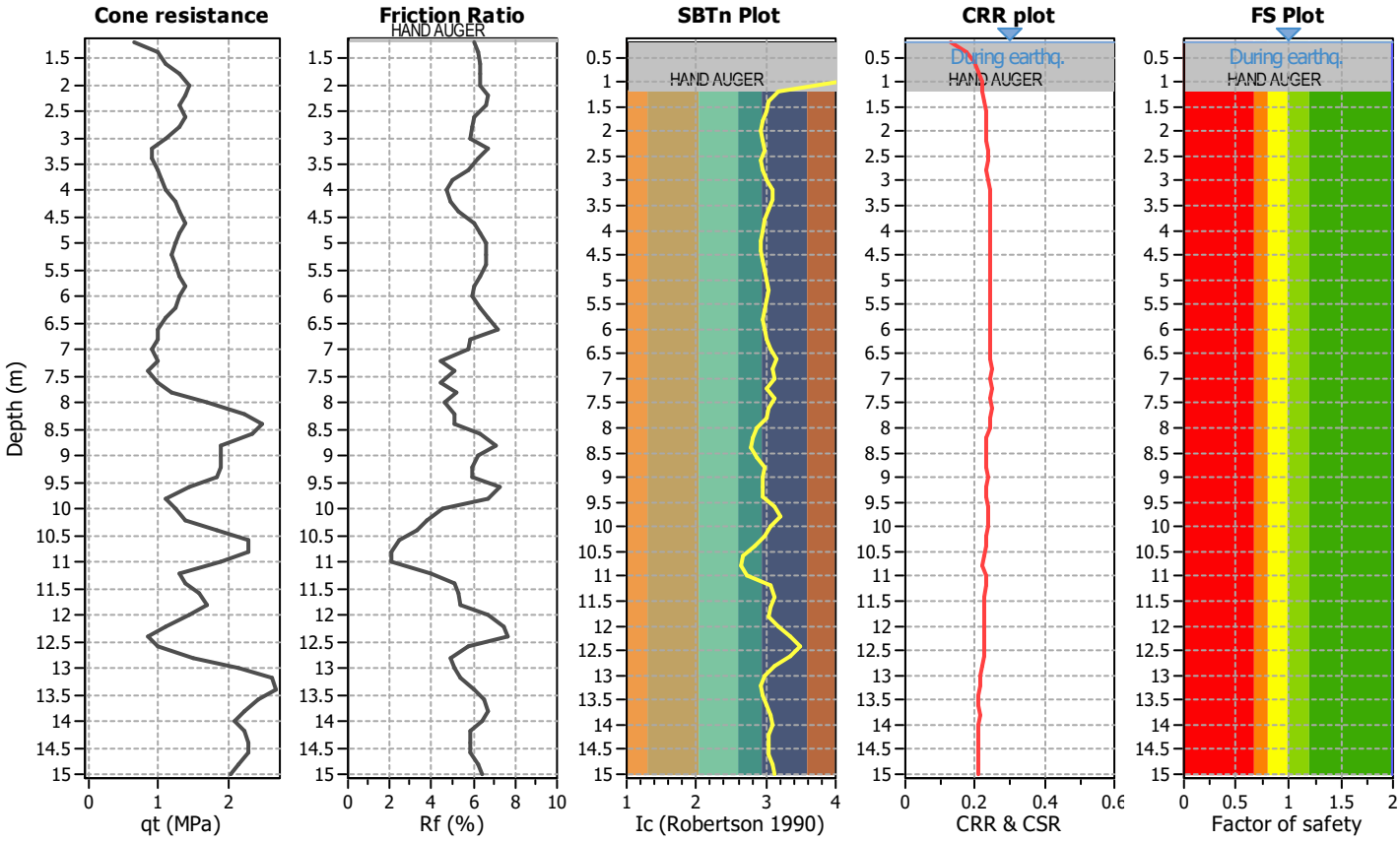
LIQUEFACTION ANALYSIS REPORT

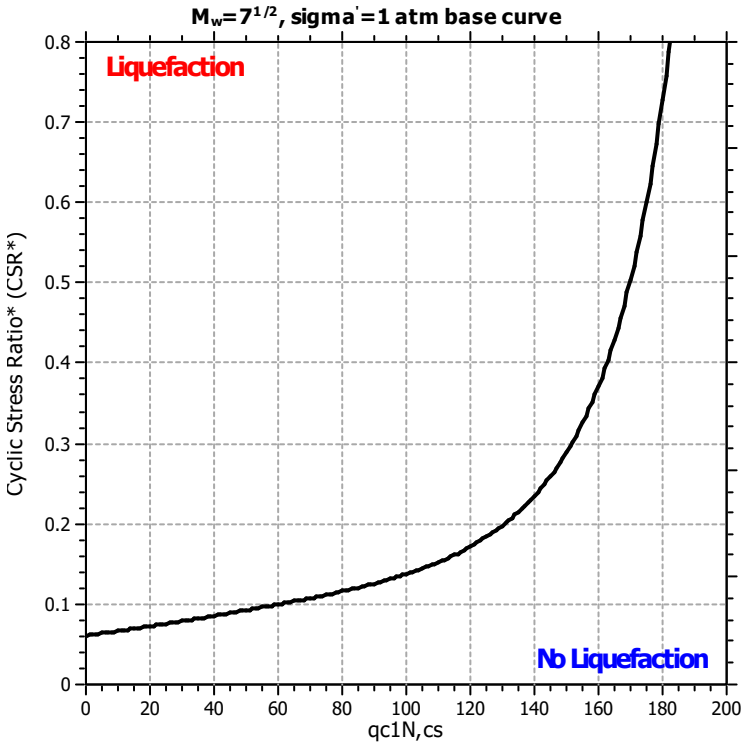
Project title : **Location :**

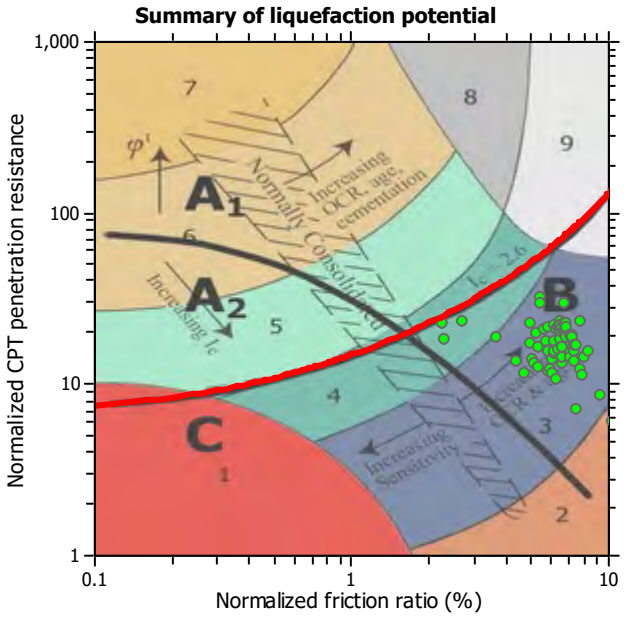
CPT file : SP217

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

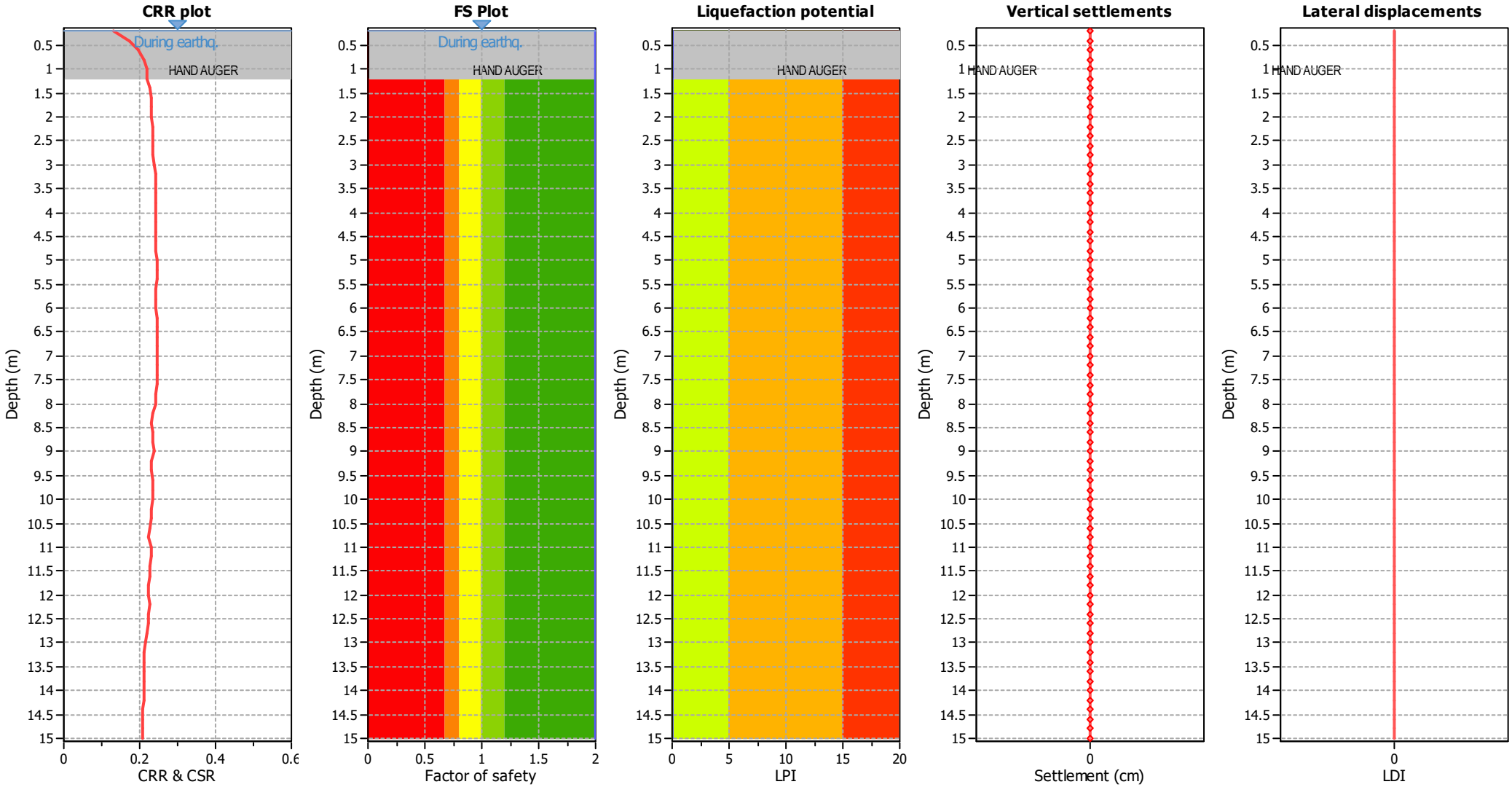






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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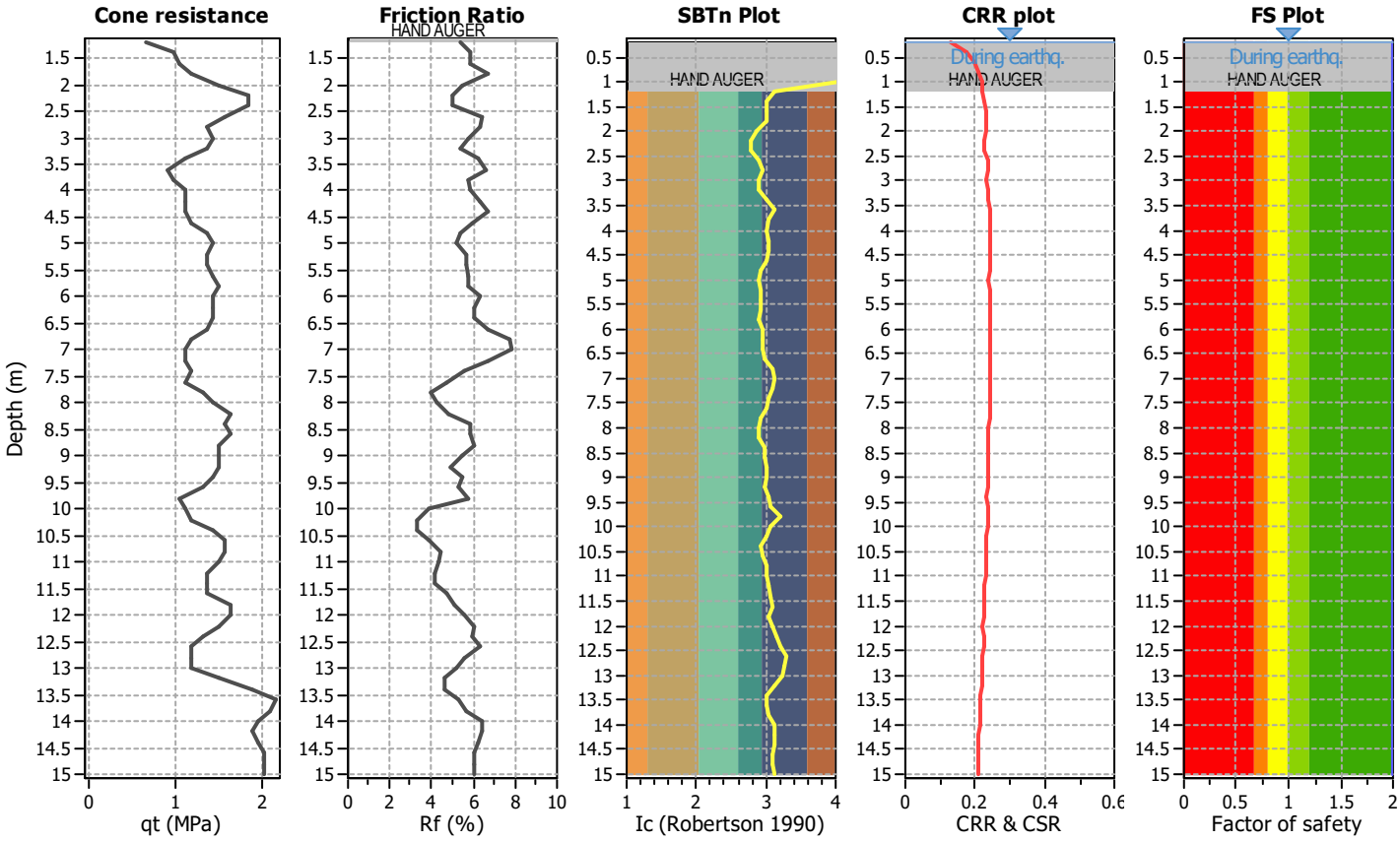
LIQUEFACTION ANALYSIS REPORT

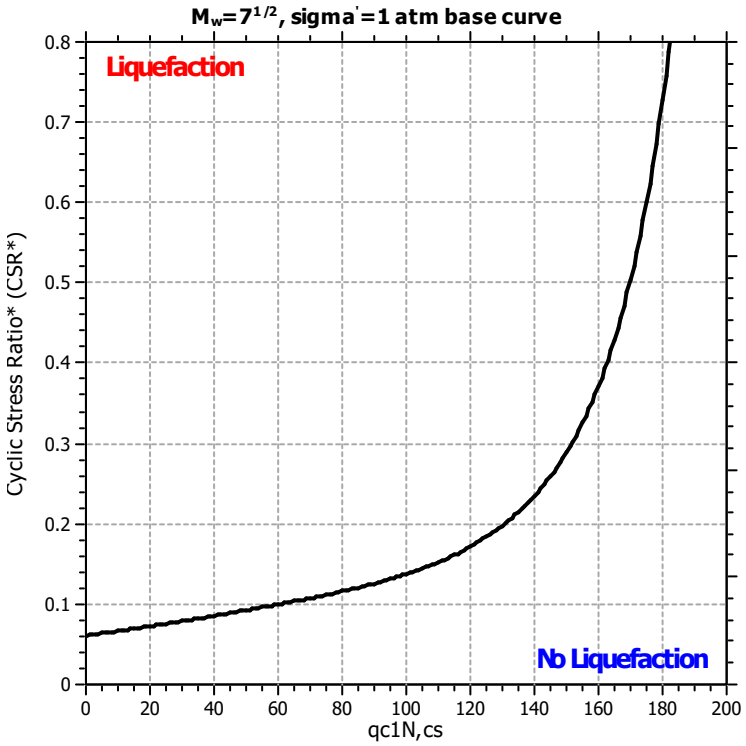
Project title : **Location :**

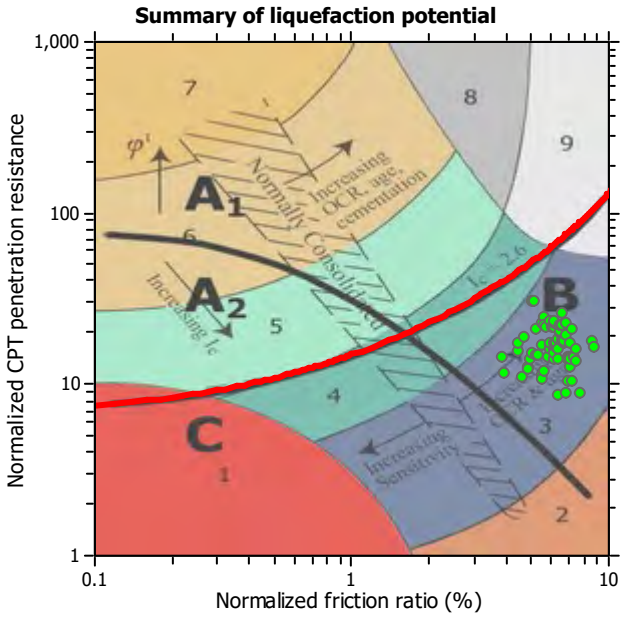
CPT file : SP218

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

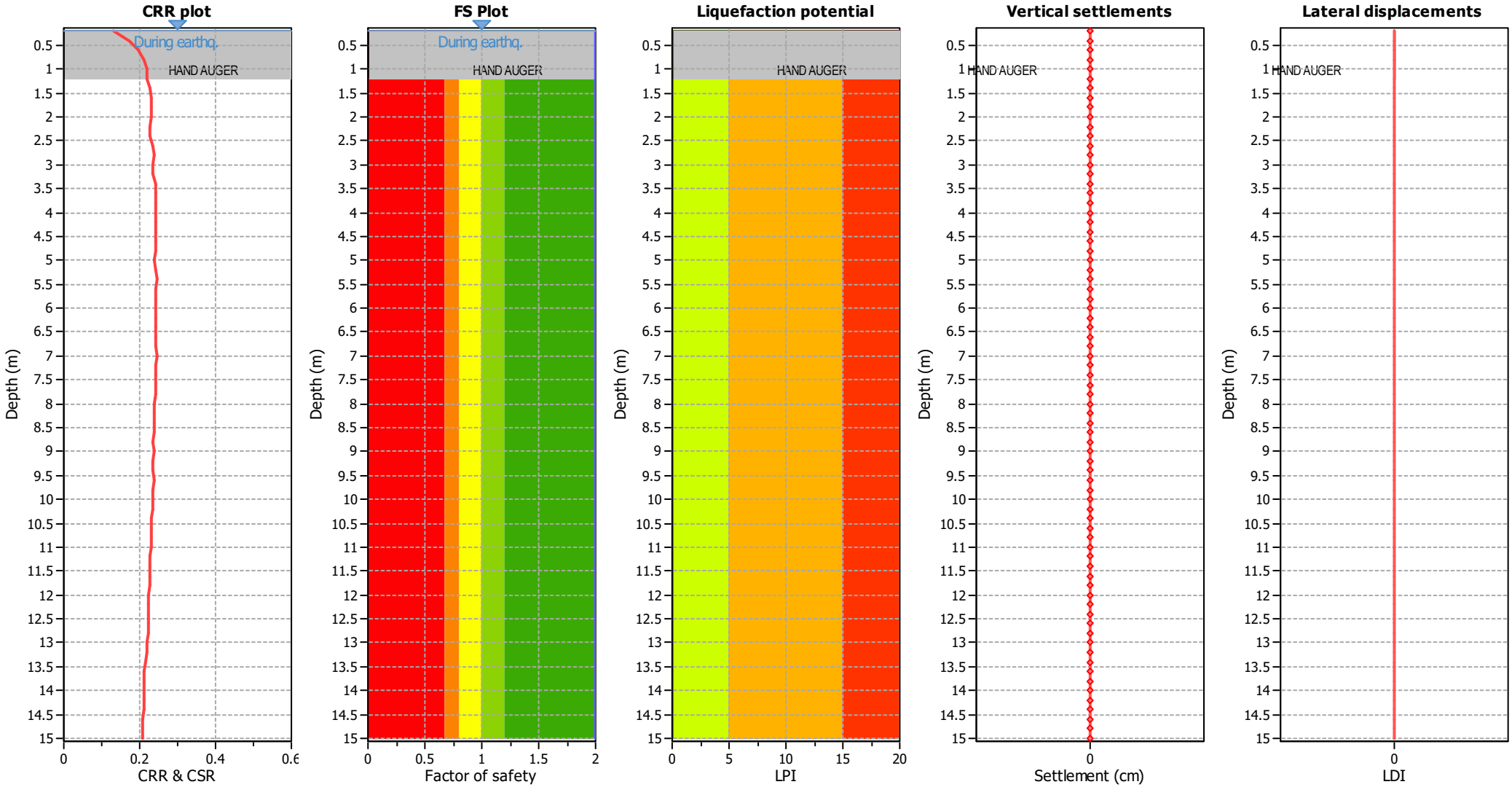






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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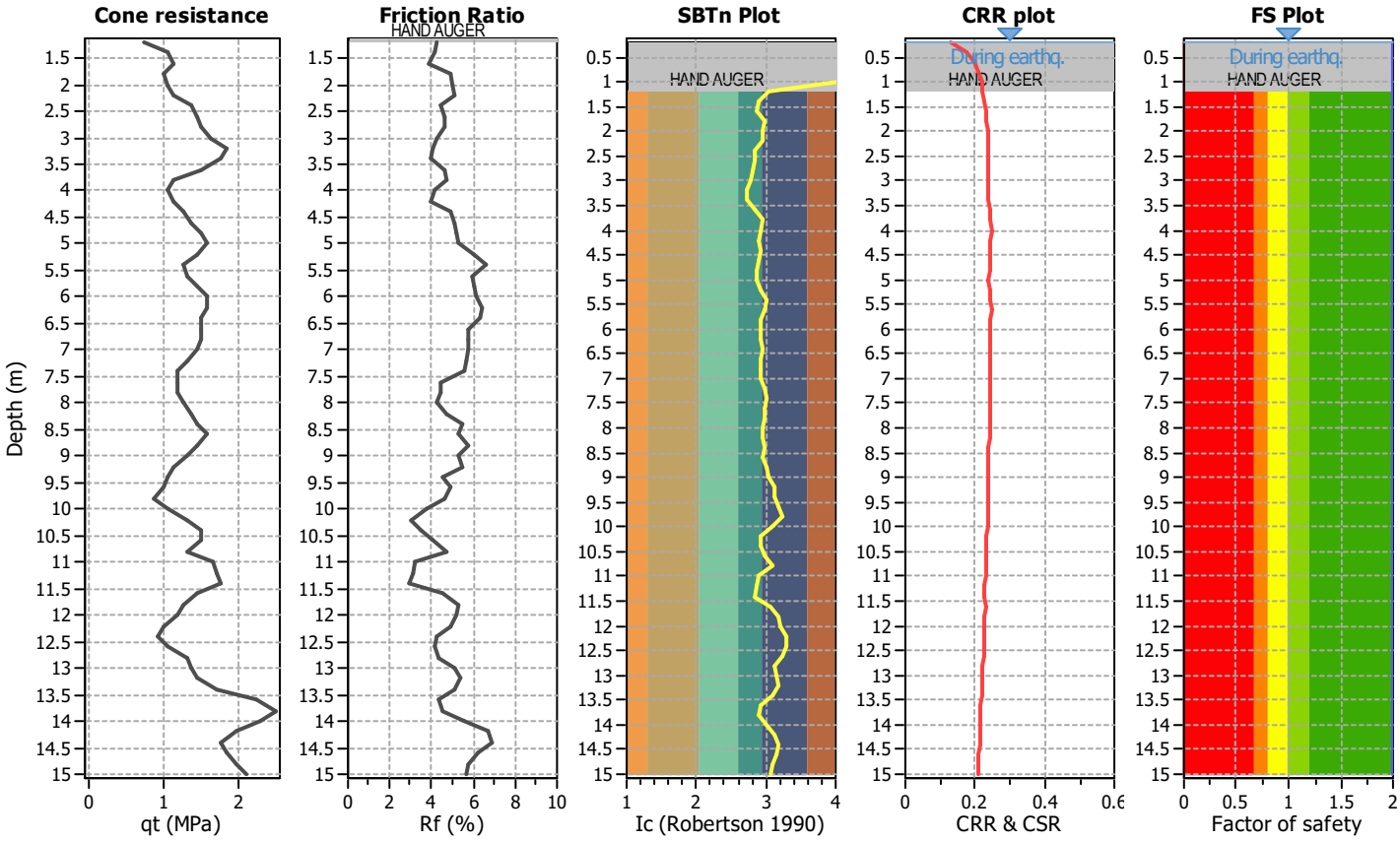
LIQUEFACTION ANALYSIS REPORT

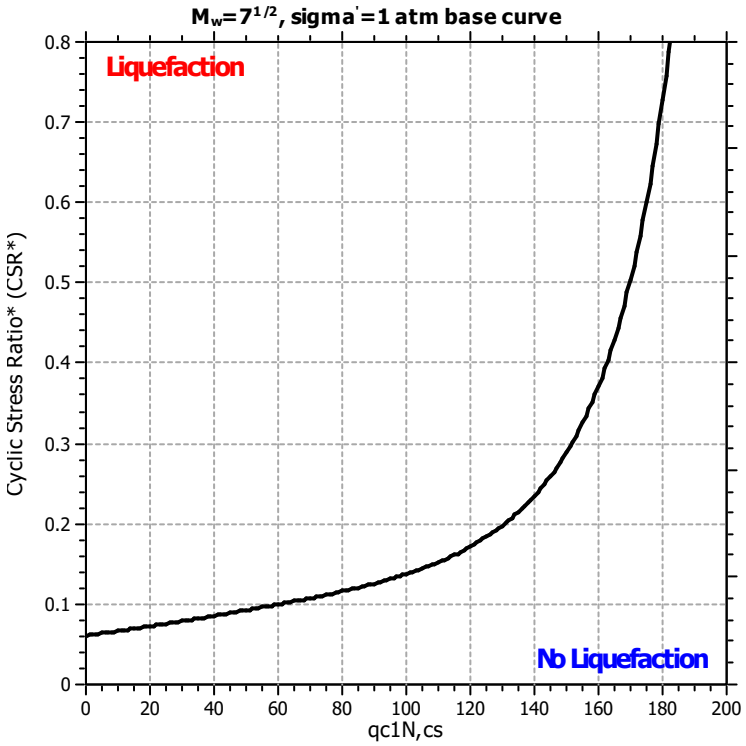
Project title : **Location :**

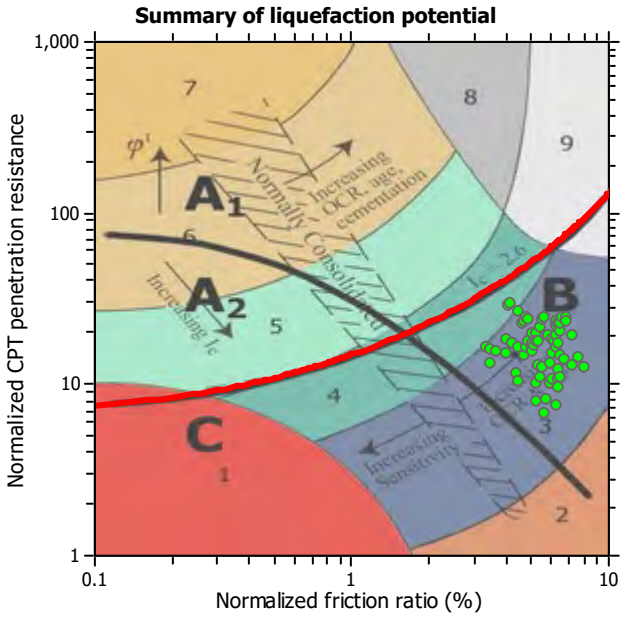
CPT file : SP219

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

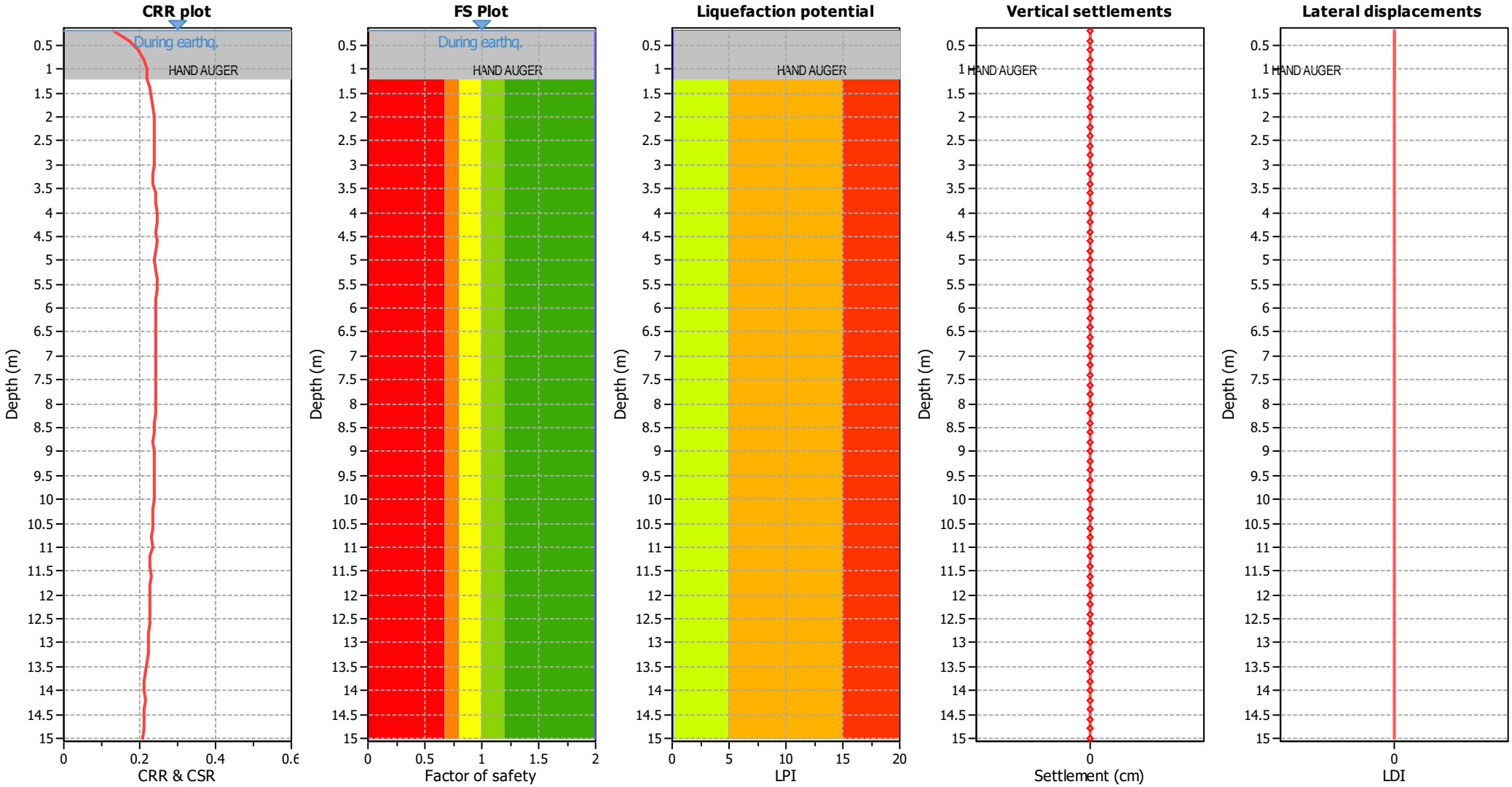






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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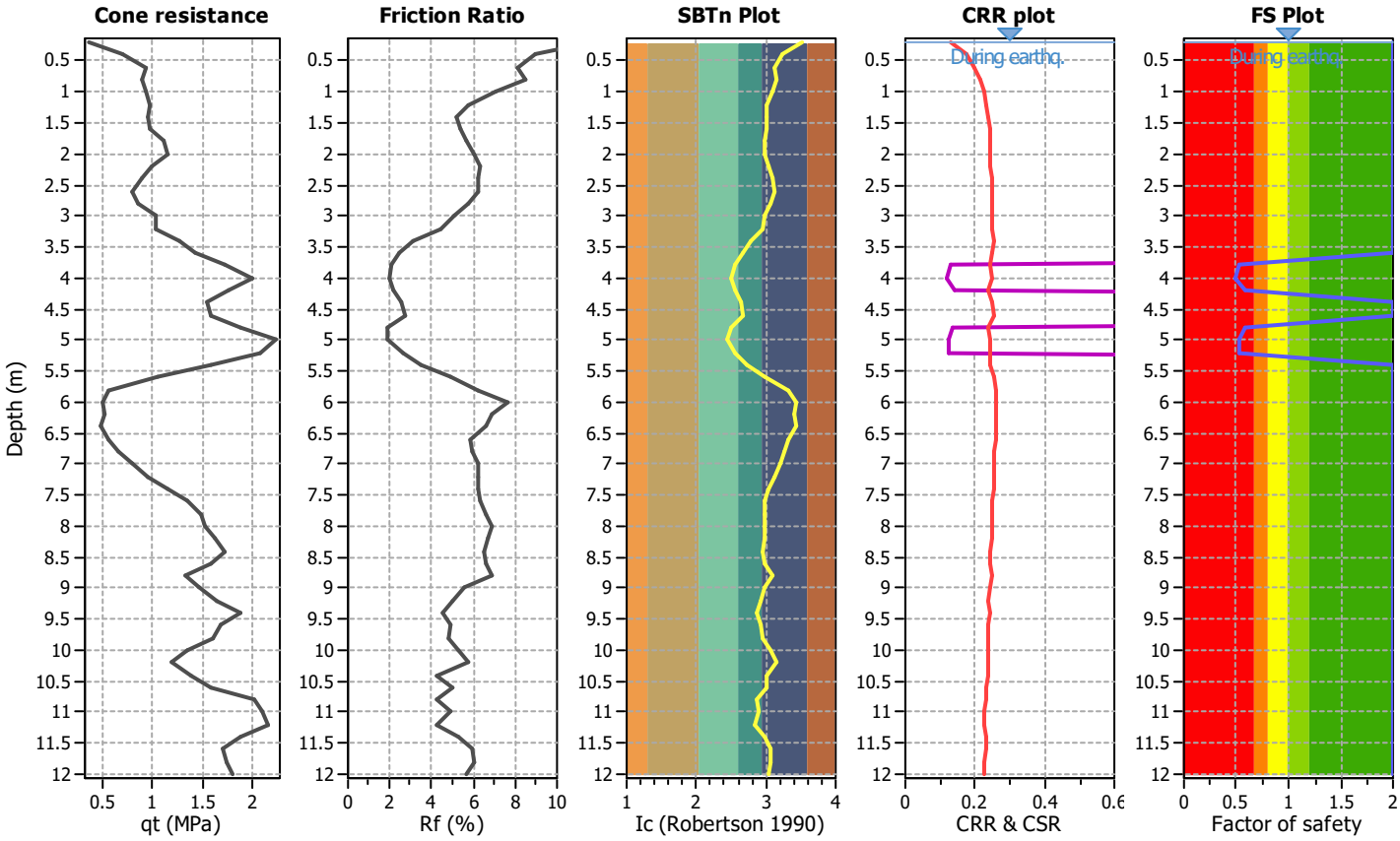
LIQUEFACTION ANALYSIS REPORT

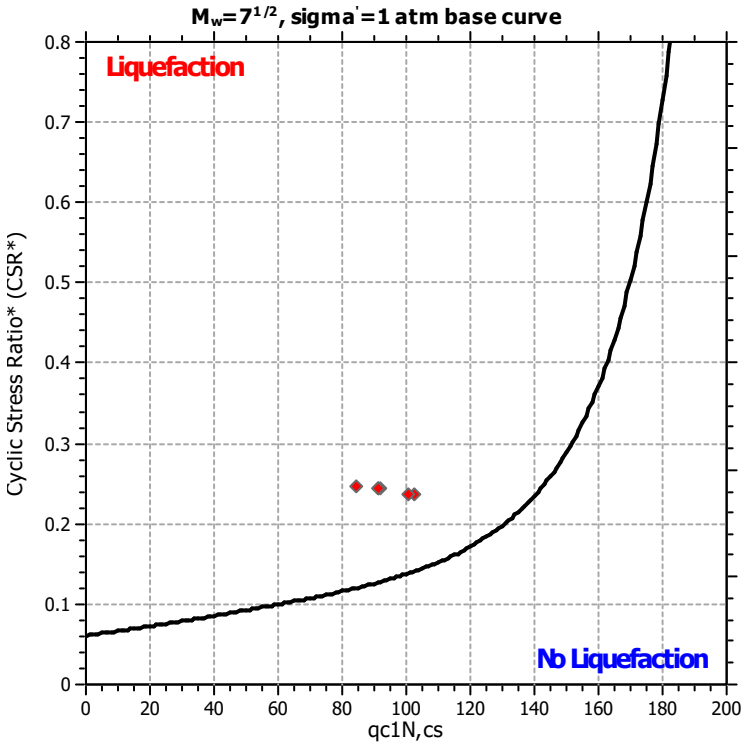
Project title : **Location :**

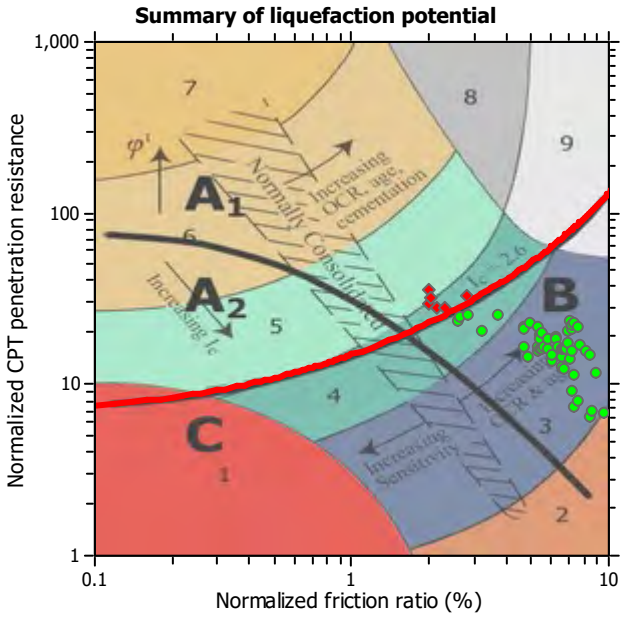
CPT file : SP220

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

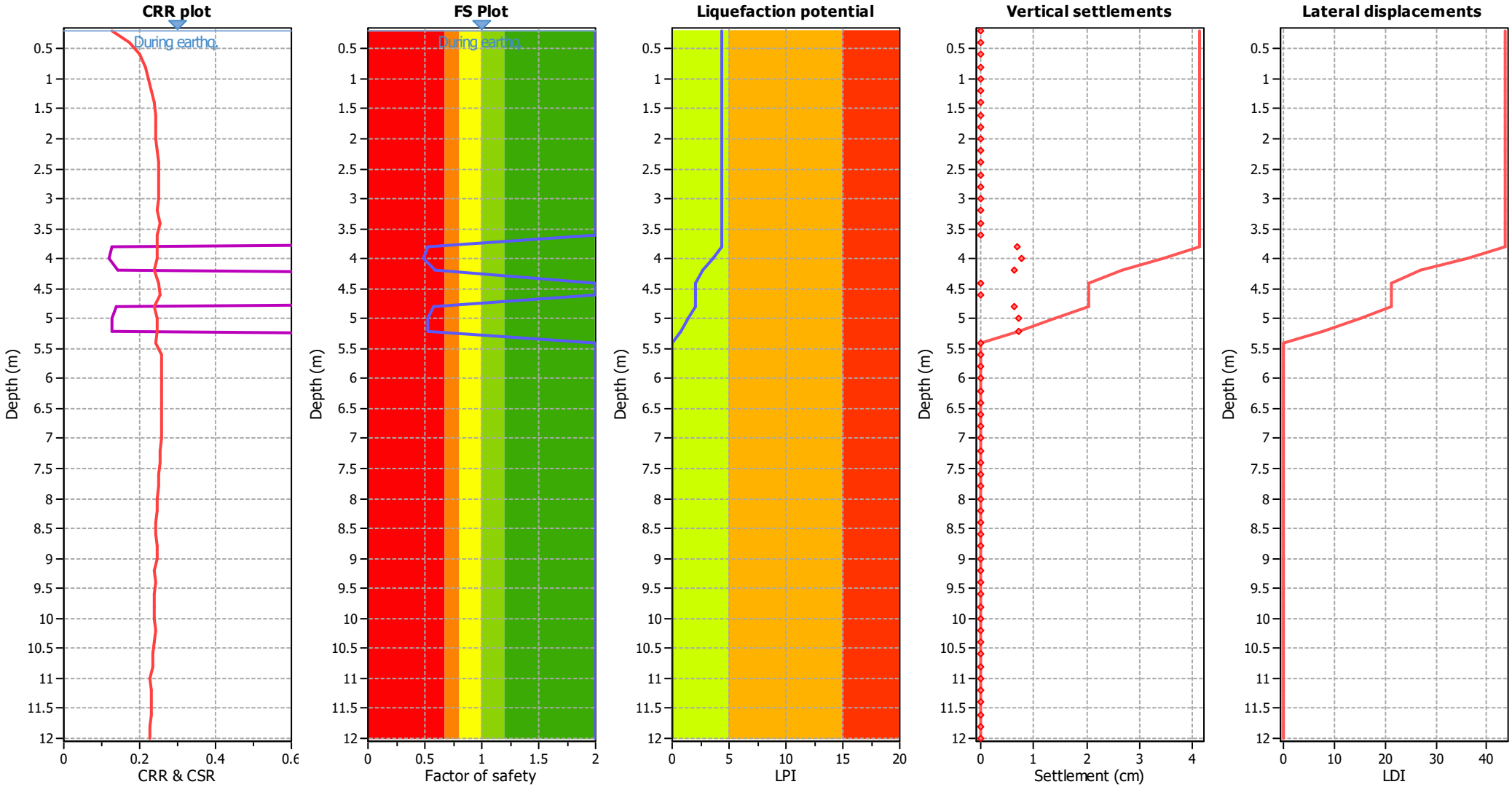






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	0.52	0.48	0.51	0.20	0.77	4.00	0.48	0.52	0.46	0.20	0.83
4.20	0.59	0.41	0.62	0.20	0.64	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	0.58	0.42	0.60	0.20	0.63
5.00	0.52	0.48	0.50	0.20	0.72	5.20	0.52	0.48	0.50	0.20	0.71
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.31

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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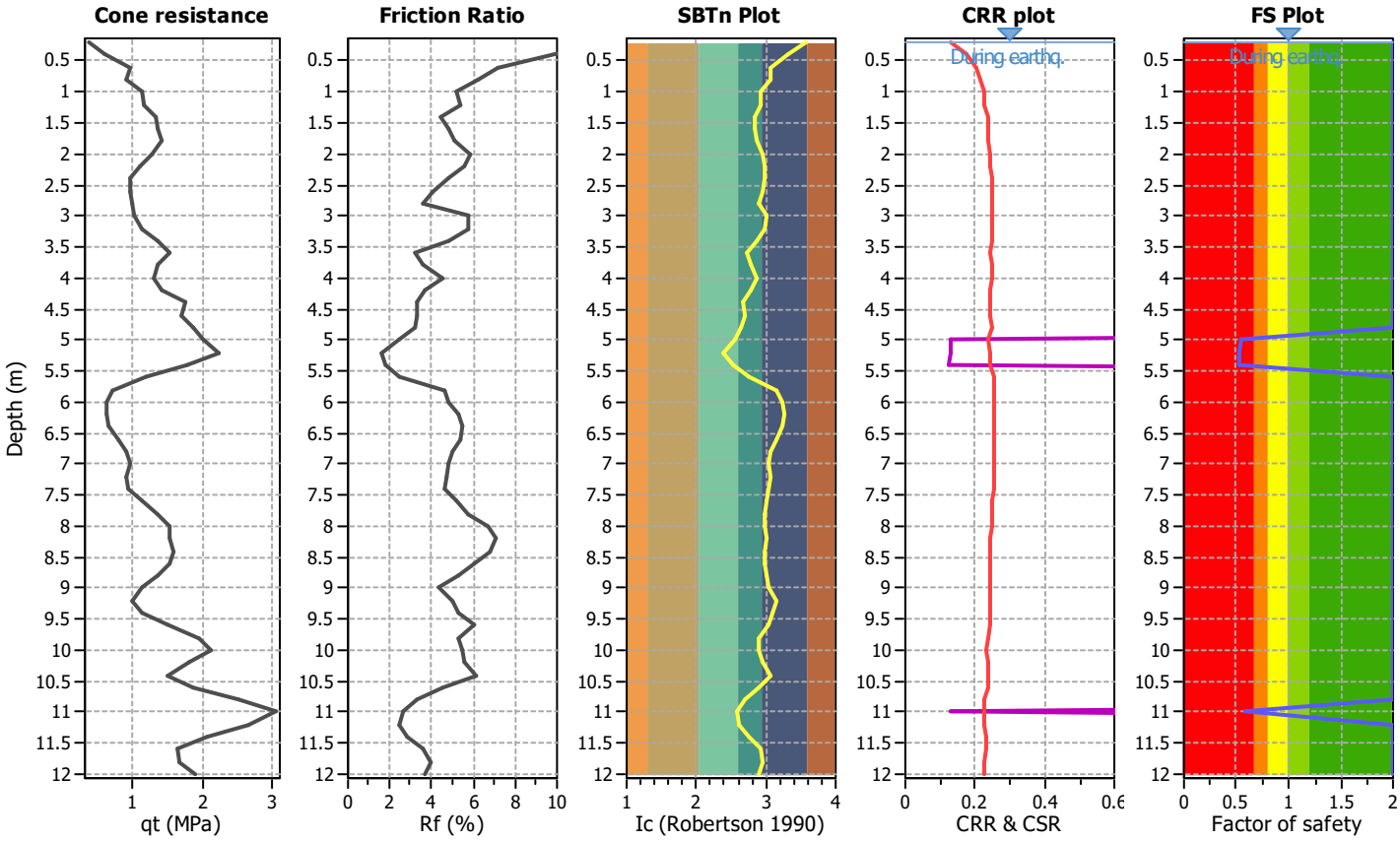
LIQUEFACTION ANALYSIS REPORT

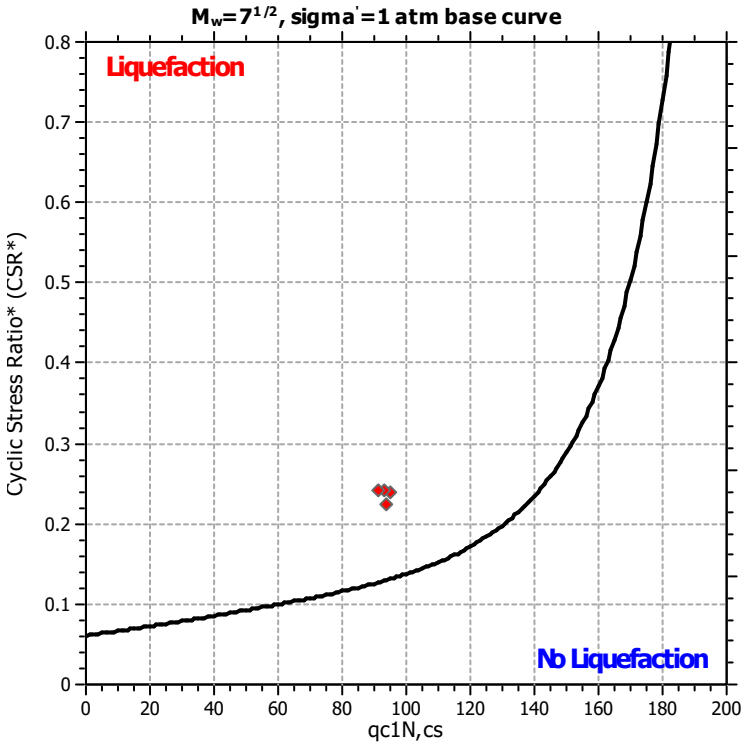
Project title : **Location :**

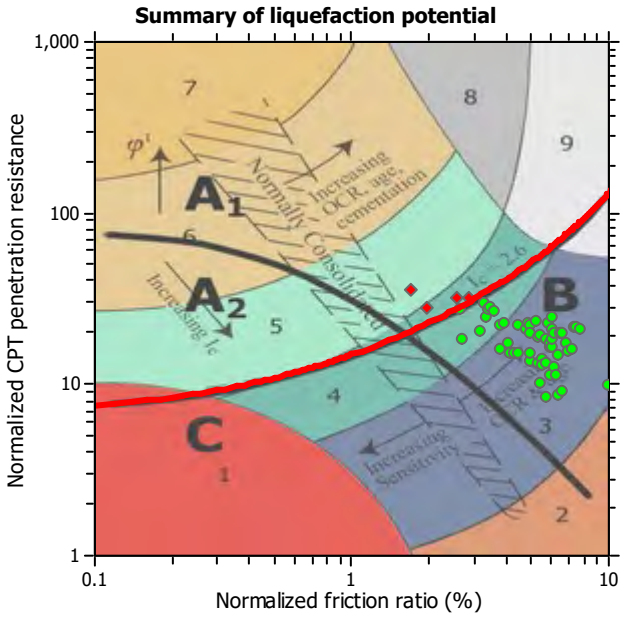
CPT file : SP221

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

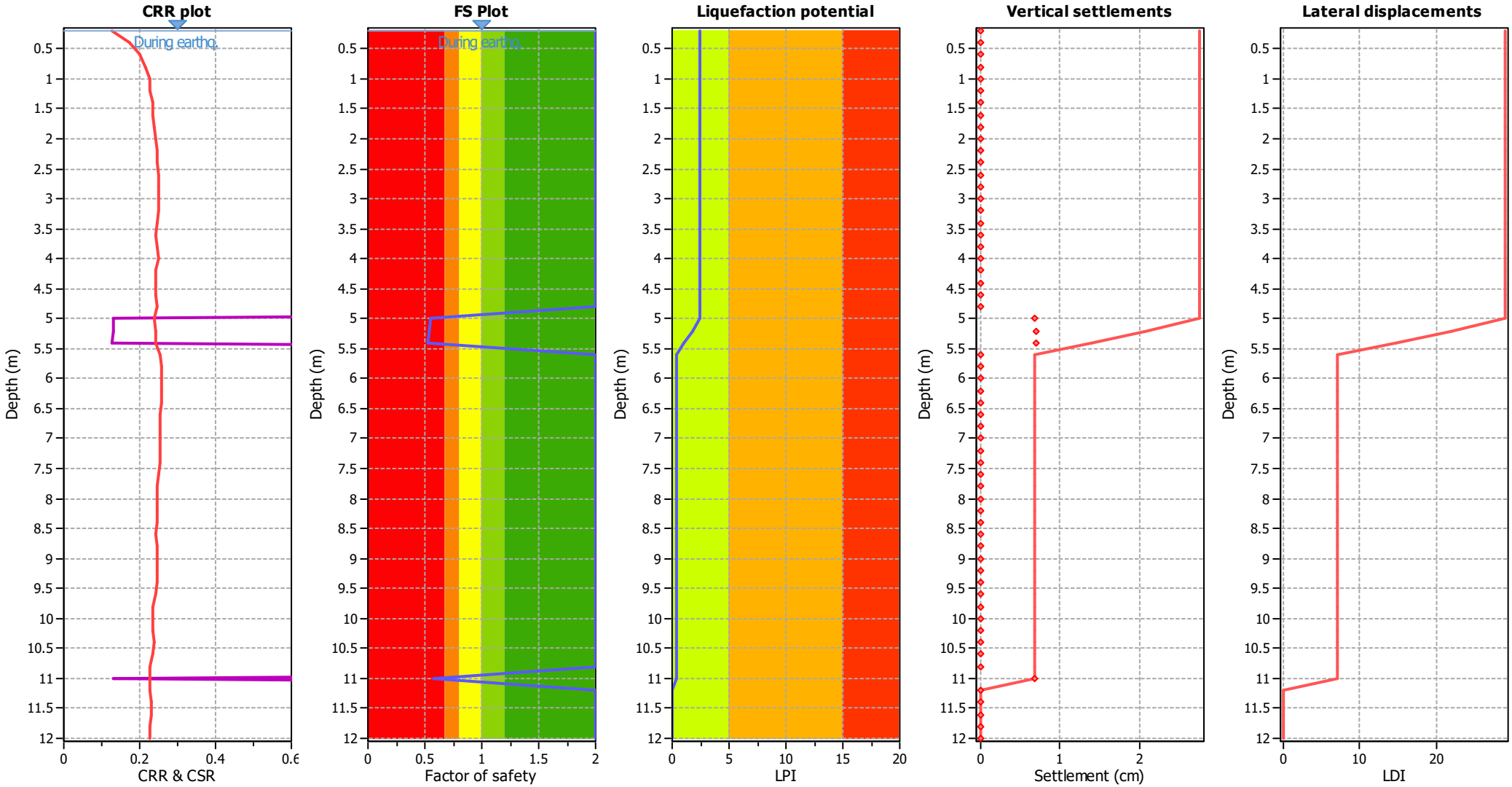






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	0.55	0.45	0.54	0.20	0.68	5.20	0.54	0.46	0.52	0.20	0.69
5.40	0.52	0.48	0.51	0.20	0.70	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	0.58	0.42	0.59	0.20	0.38	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.44

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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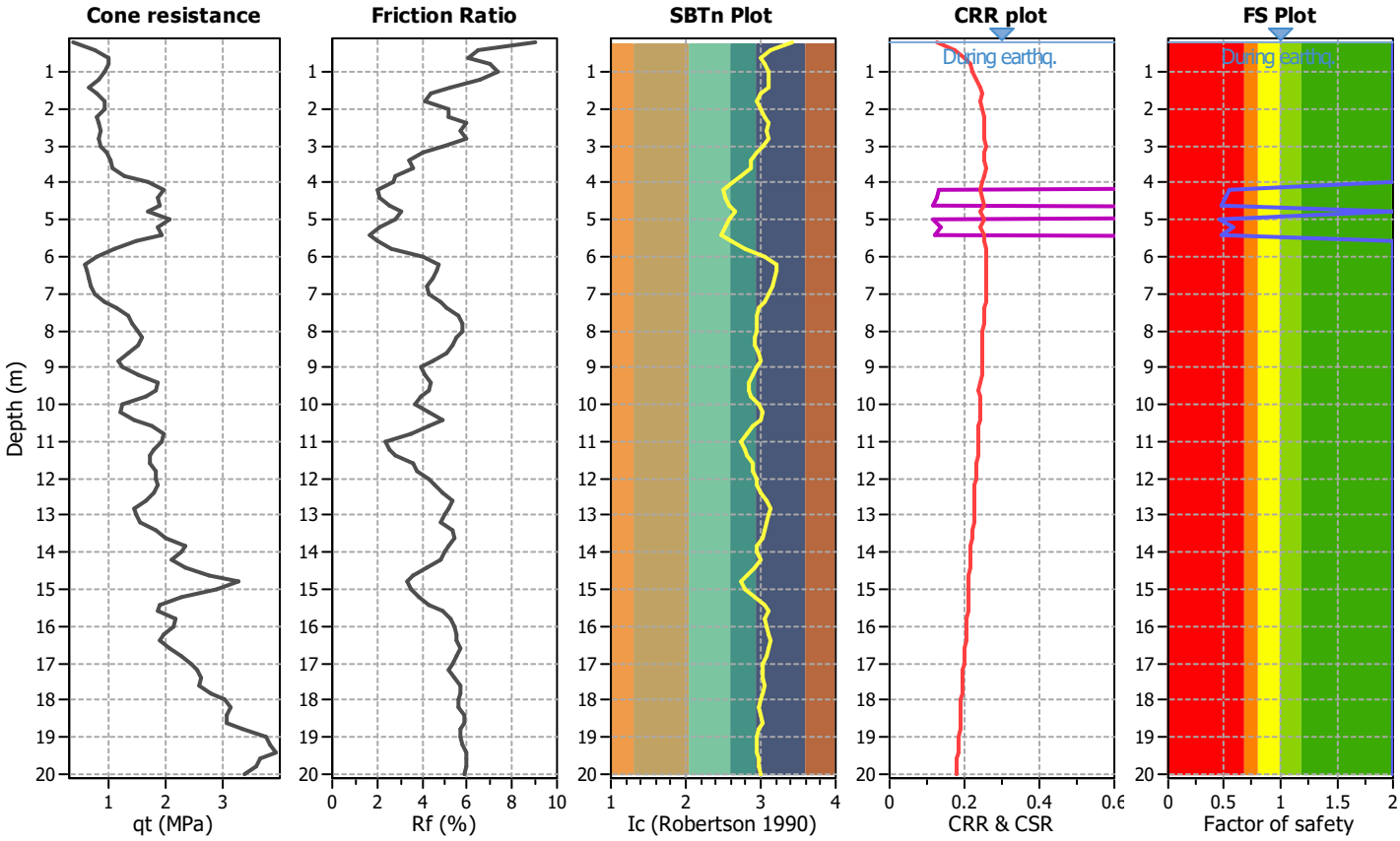
LIQUEFACTION ANALYSIS REPORT

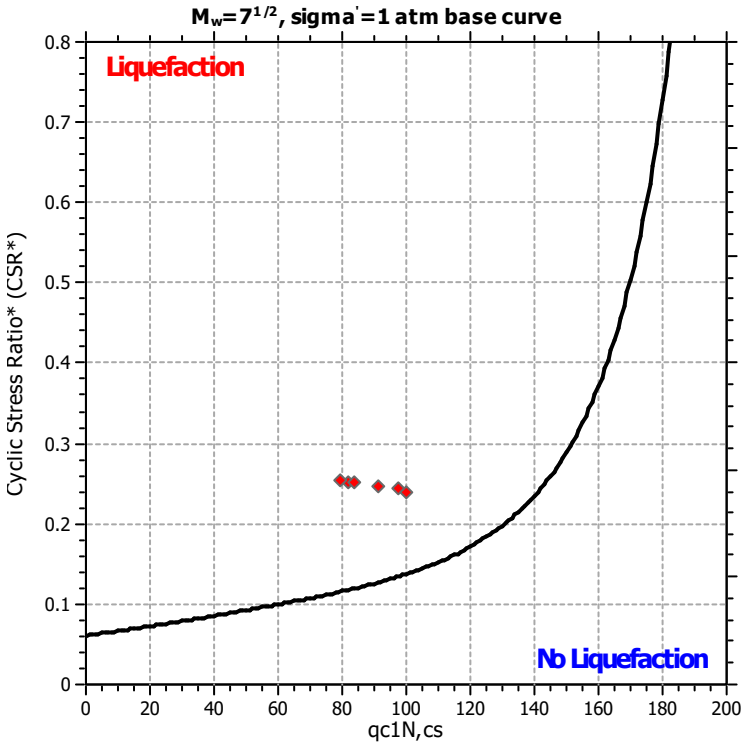
Project title : **Location :**

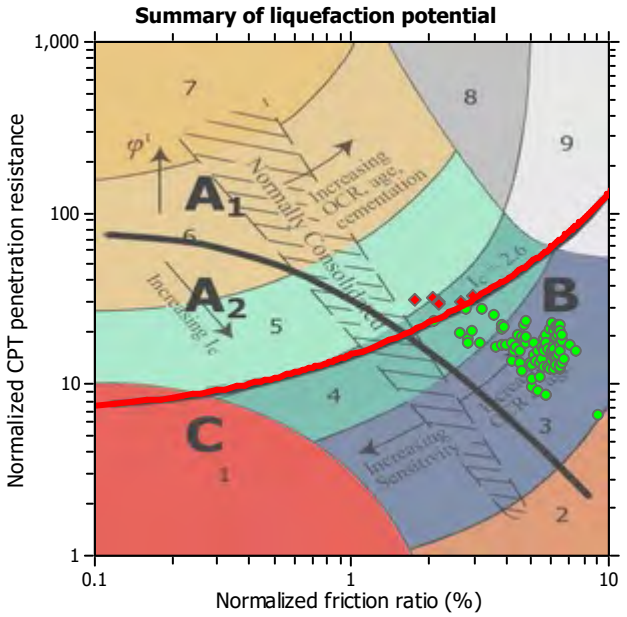
CPT file : SP222

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

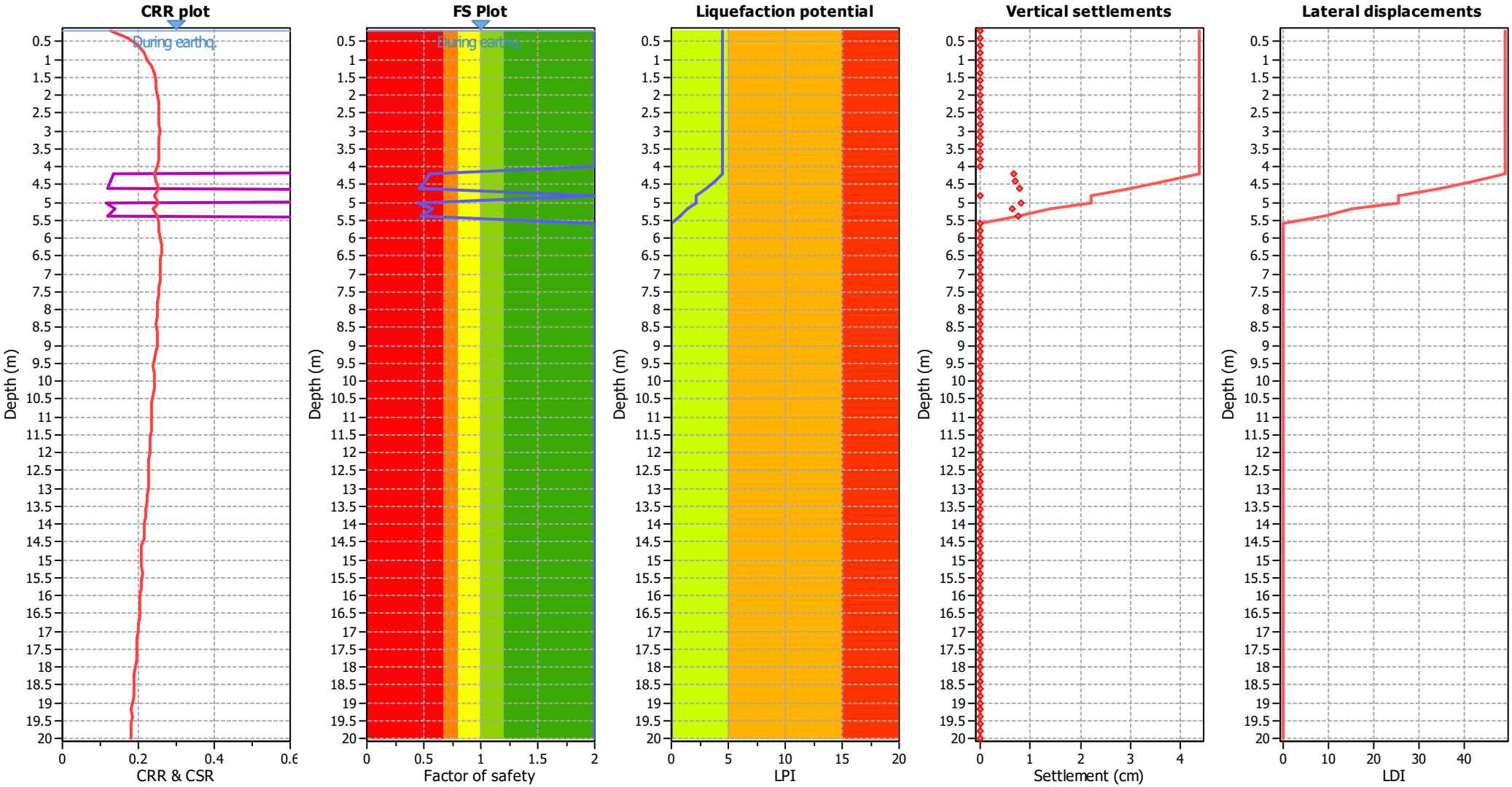






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	0.55	0.45	0.54	0.20	0.71	4.40	0.52	0.48	0.50	0.20	0.75
4.60	0.47	0.53	0.44	0.20	0.82	4.80	2.00	0.00	0.00	0.20	0.00
5.00	0.45	0.55	0.43	0.20	0.82	5.20	0.57	0.43	0.58	0.20	0.63
5.40	0.48	0.52	0.45	0.20	0.77	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.51

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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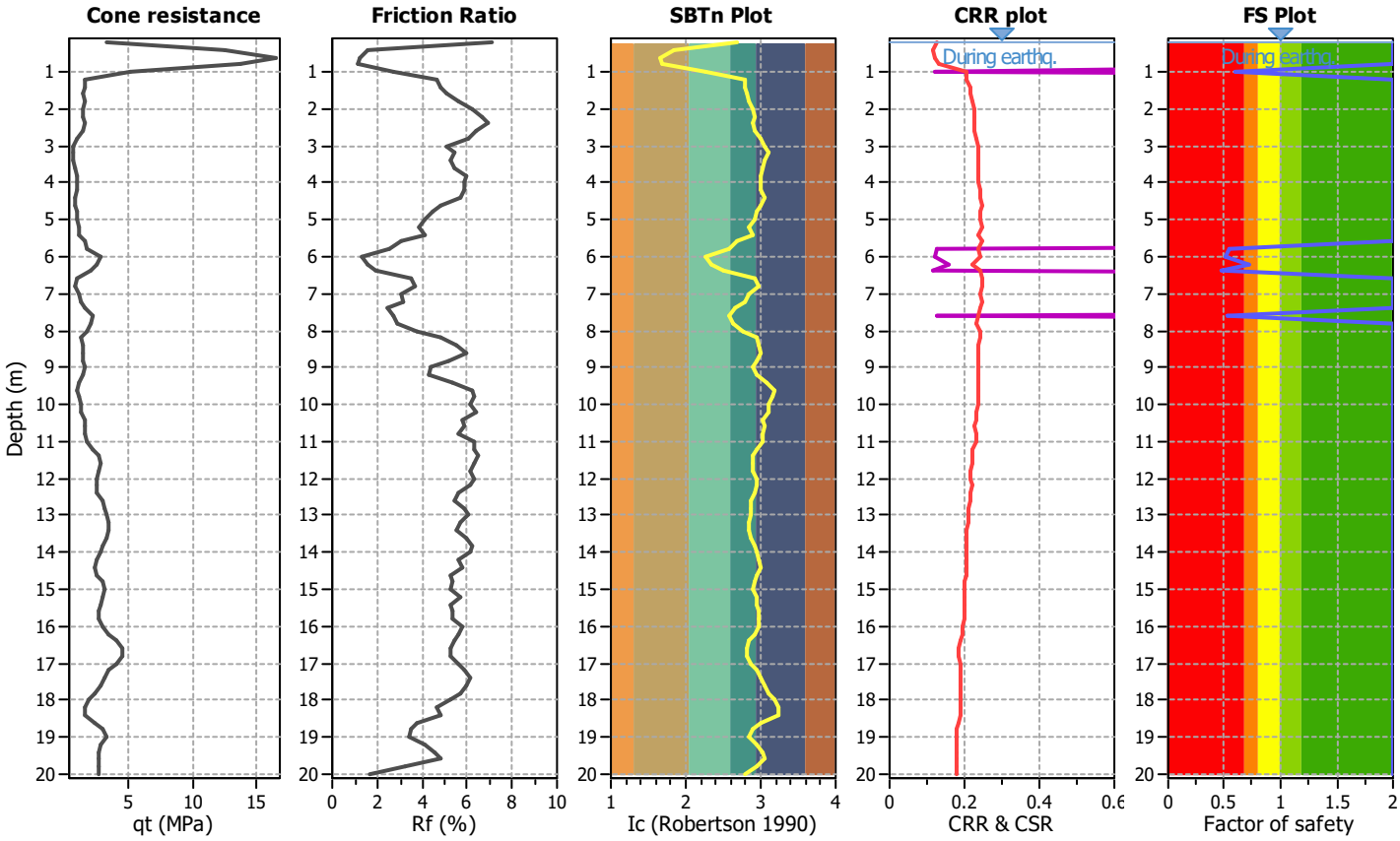
LIQUEFACTION ANALYSIS REPORT

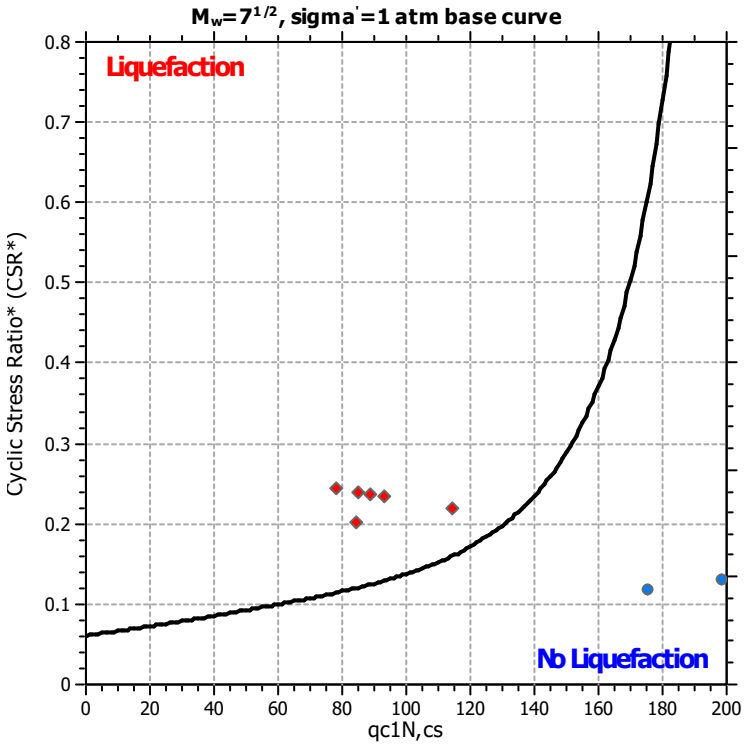
Project title : **Location :**

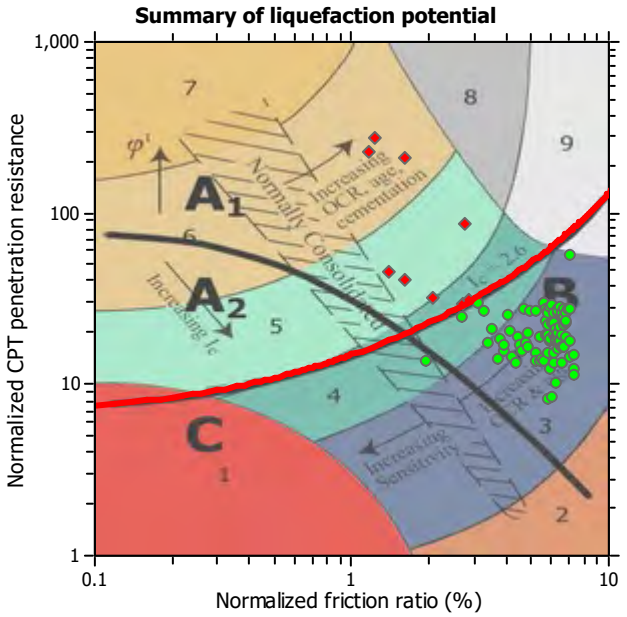
CPT file : SP223

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

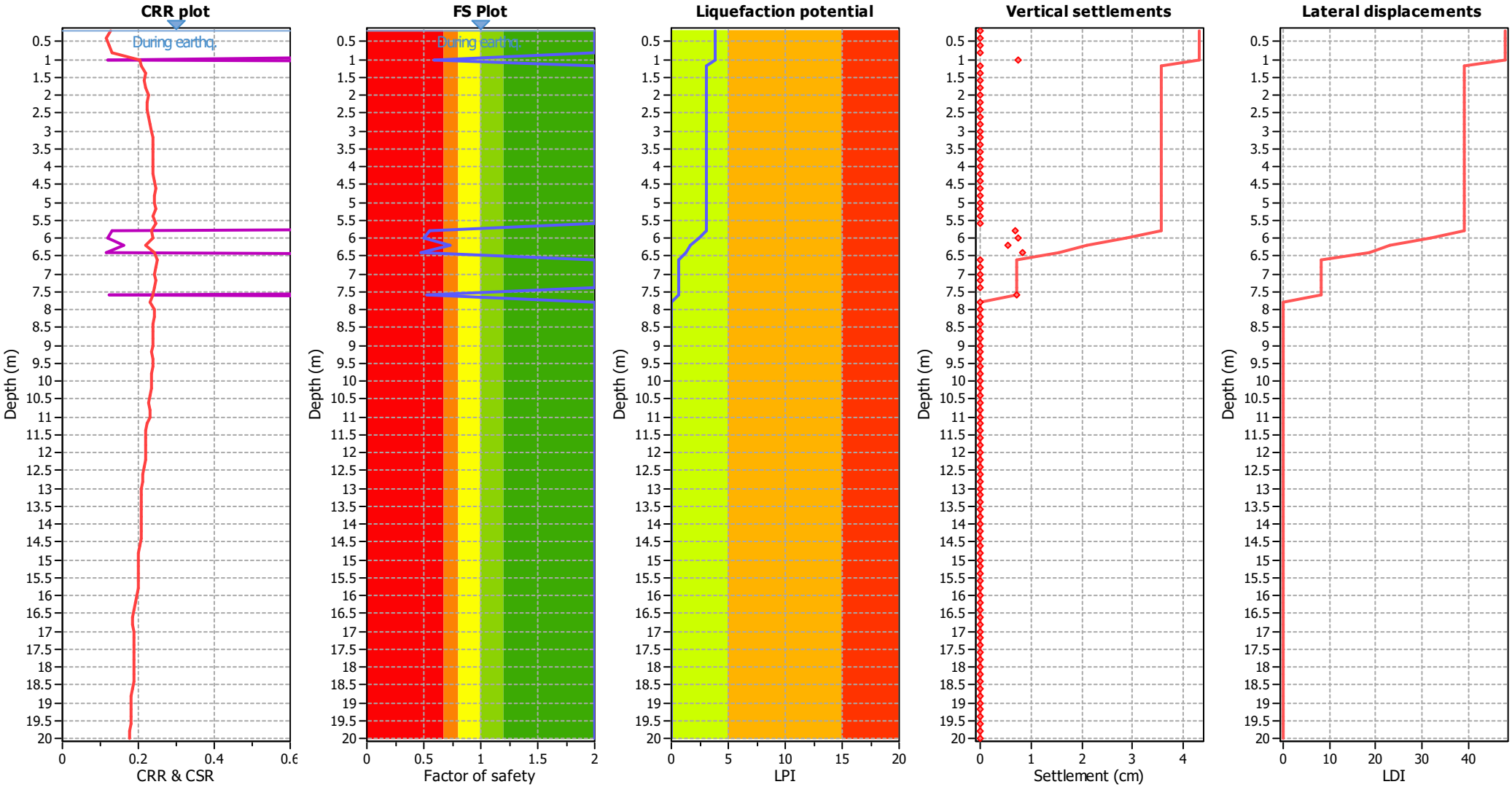






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.59	0.00	0.00	0.20	0.77	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	0.55	0.00	0.00	0.20	0.64	6.00	0.50	0.50	0.48	0.20	0.70
6.20	0.73	0.00	0.00	0.20	0.38	6.40	0.47	0.53	0.44	0.20	0.72
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	0.52	0.48	0.51	0.20	0.59
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.80

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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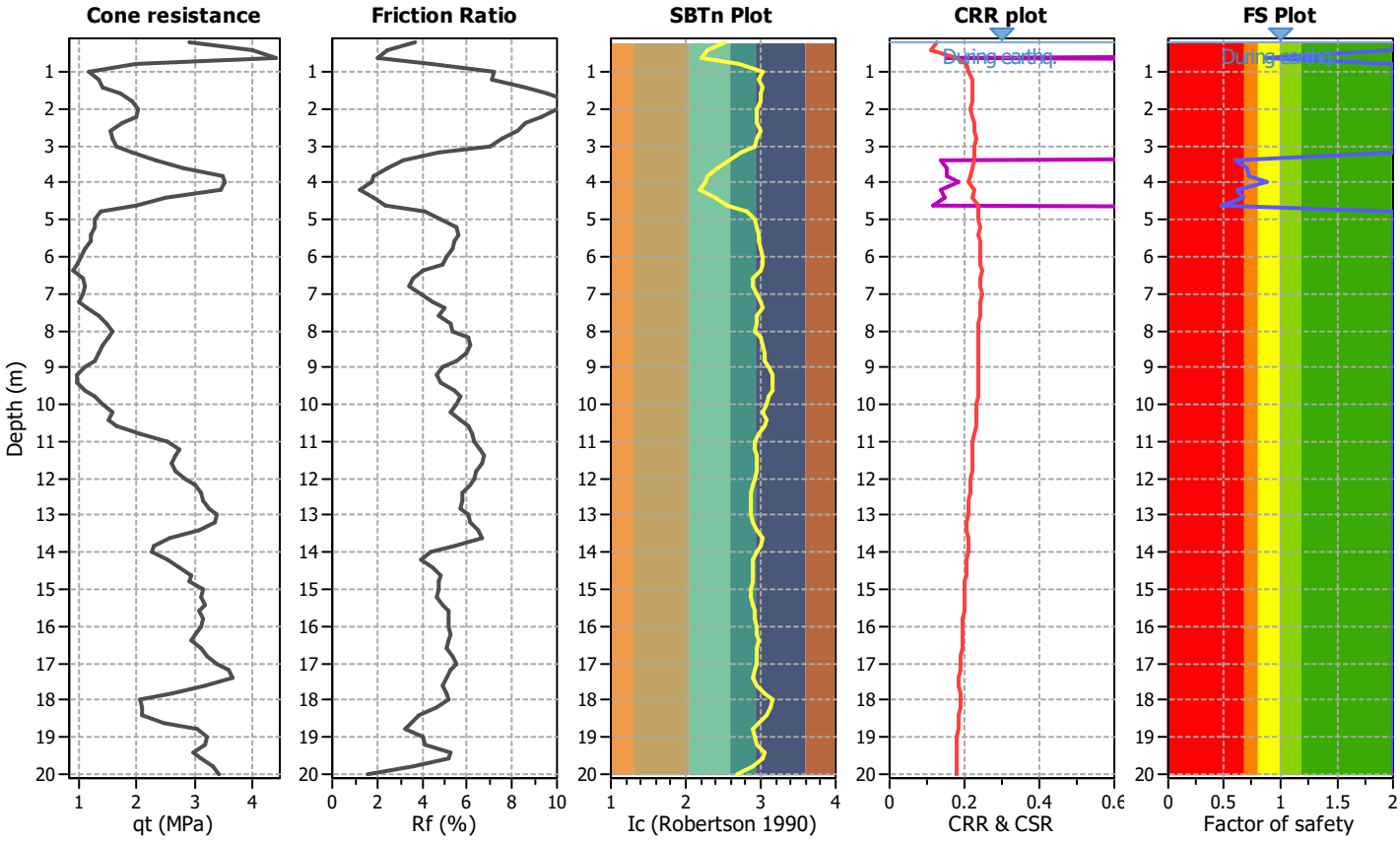
LIQUEFACTION ANALYSIS REPORT

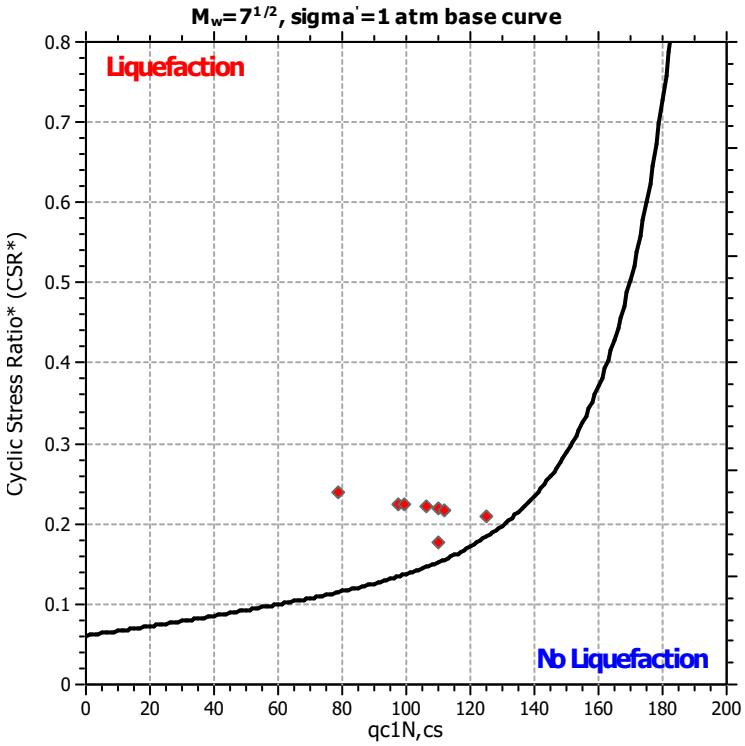
Project title : **Location :**

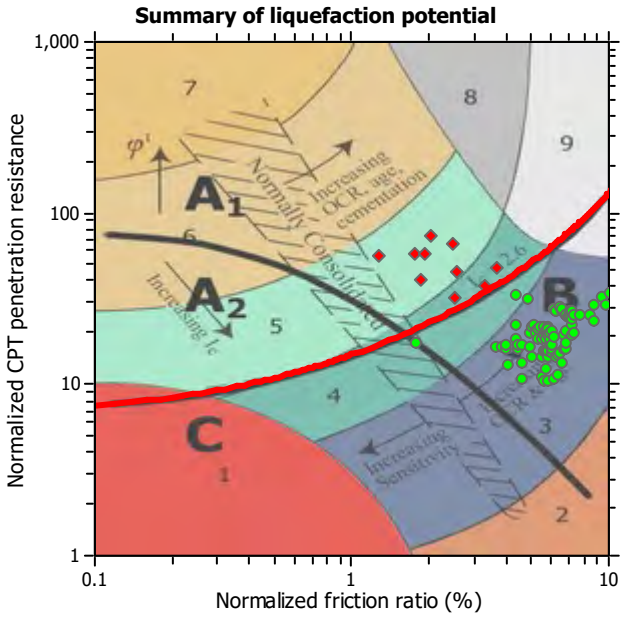
CPT file : SP224

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

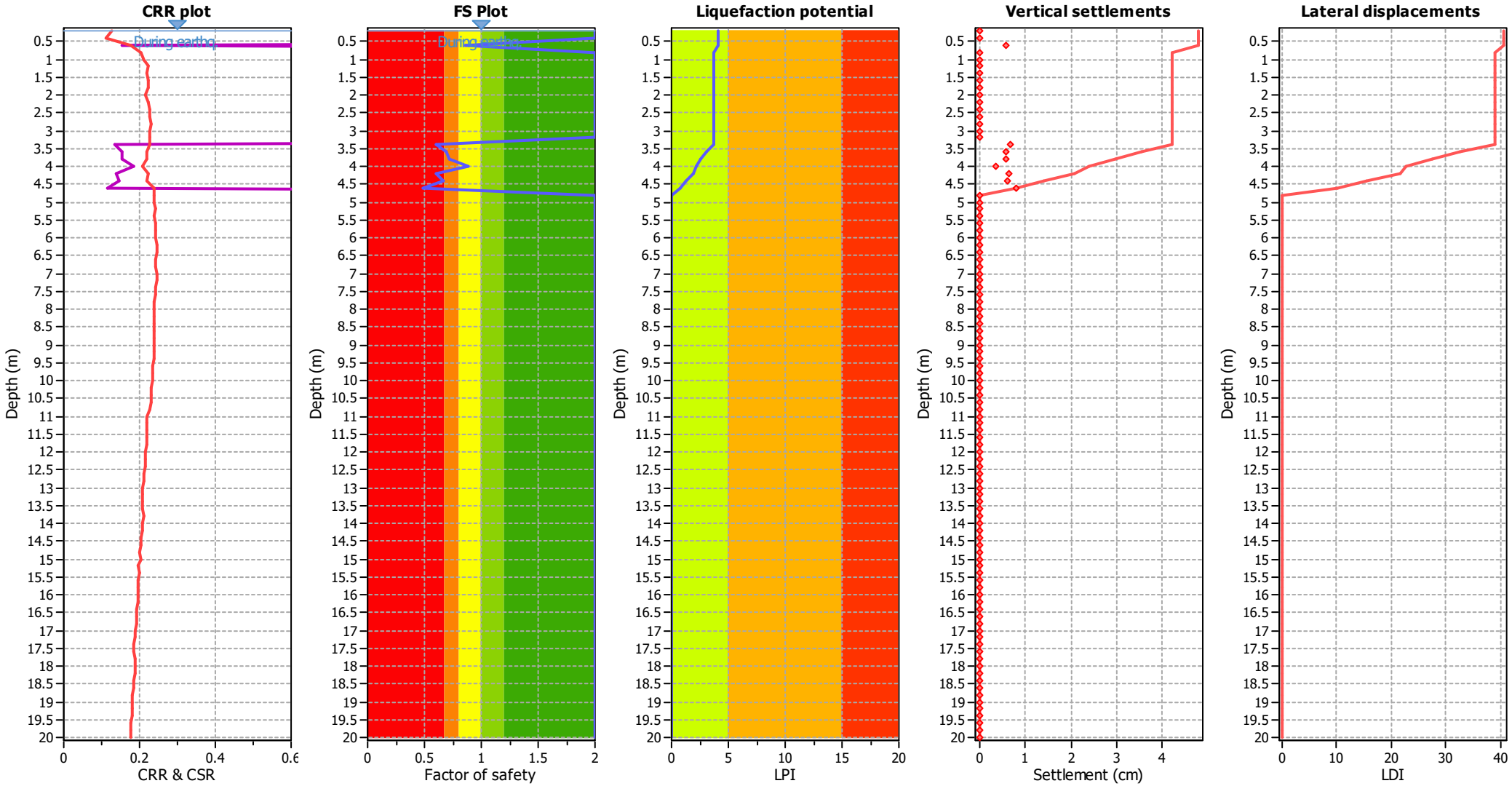






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.85	0.00	0.00	0.20	0.28	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	0.60	0.40	0.62	0.20	0.67	3.60	0.70	0.00	0.00	0.20	0.50
3.80	0.71	0.00	0.00	0.20	0.47	4.00	0.88	0.00	0.00	0.20	0.19
4.20	0.61	0.39	0.65	0.20	0.62	4.40	0.66	0.34	0.79	0.20	0.52
4.60	0.48	0.52	0.46	0.20	0.80	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 4.05

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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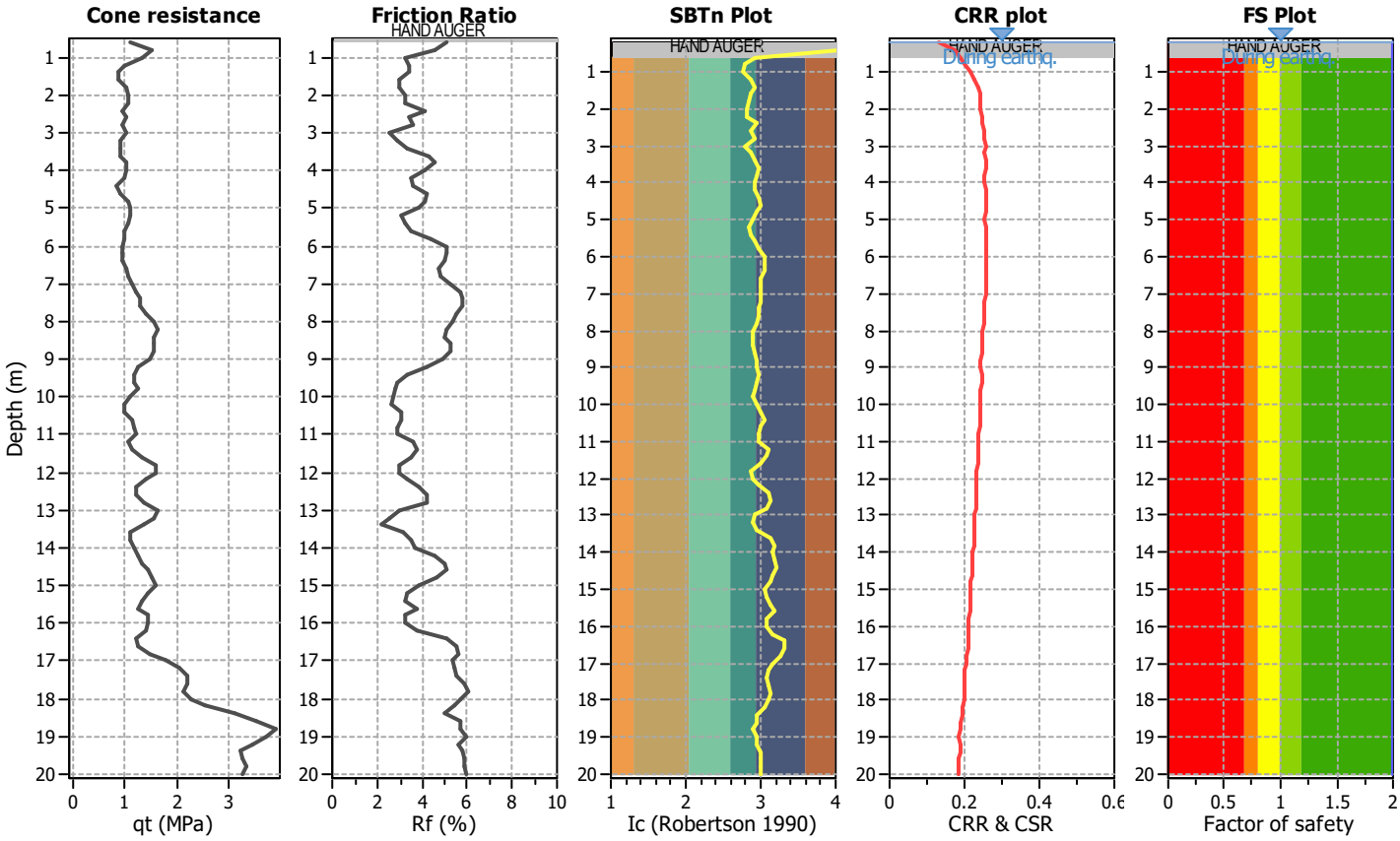
LIQUEFACTION ANALYSIS REPORT

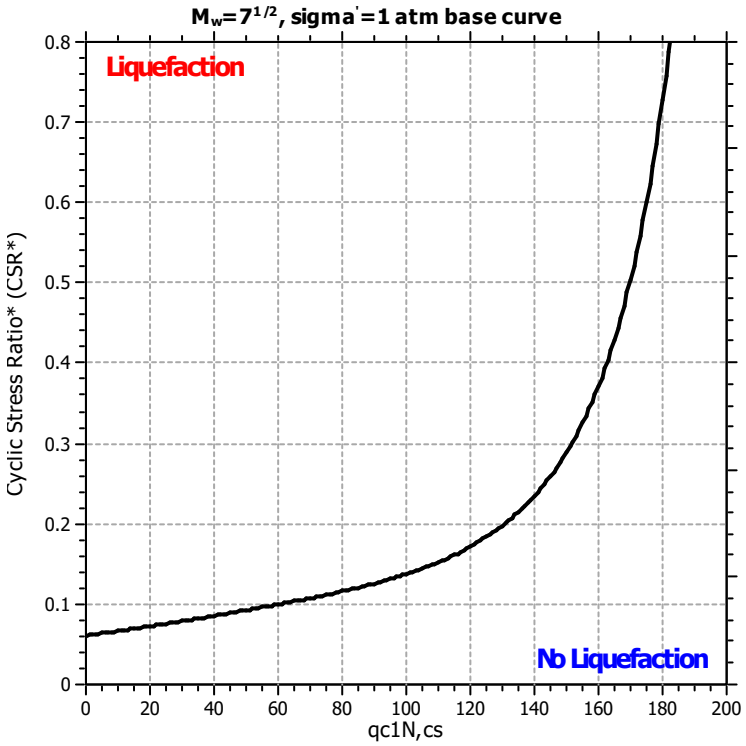
Project title : **Location :**

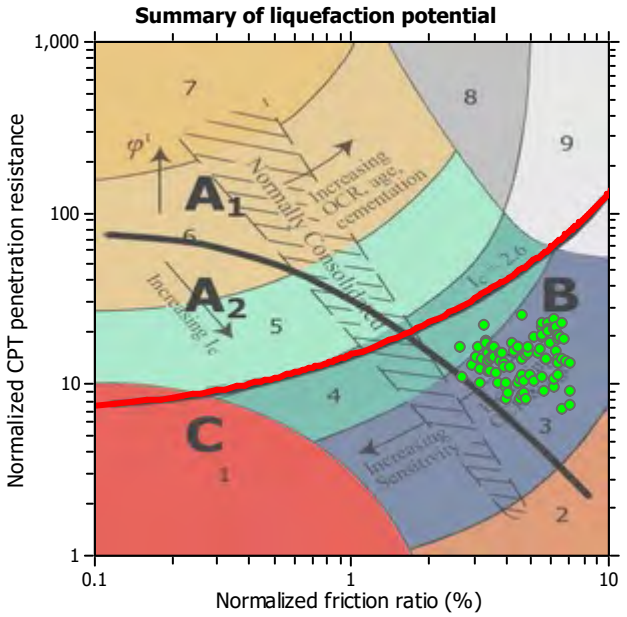
CPT file : SP225

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

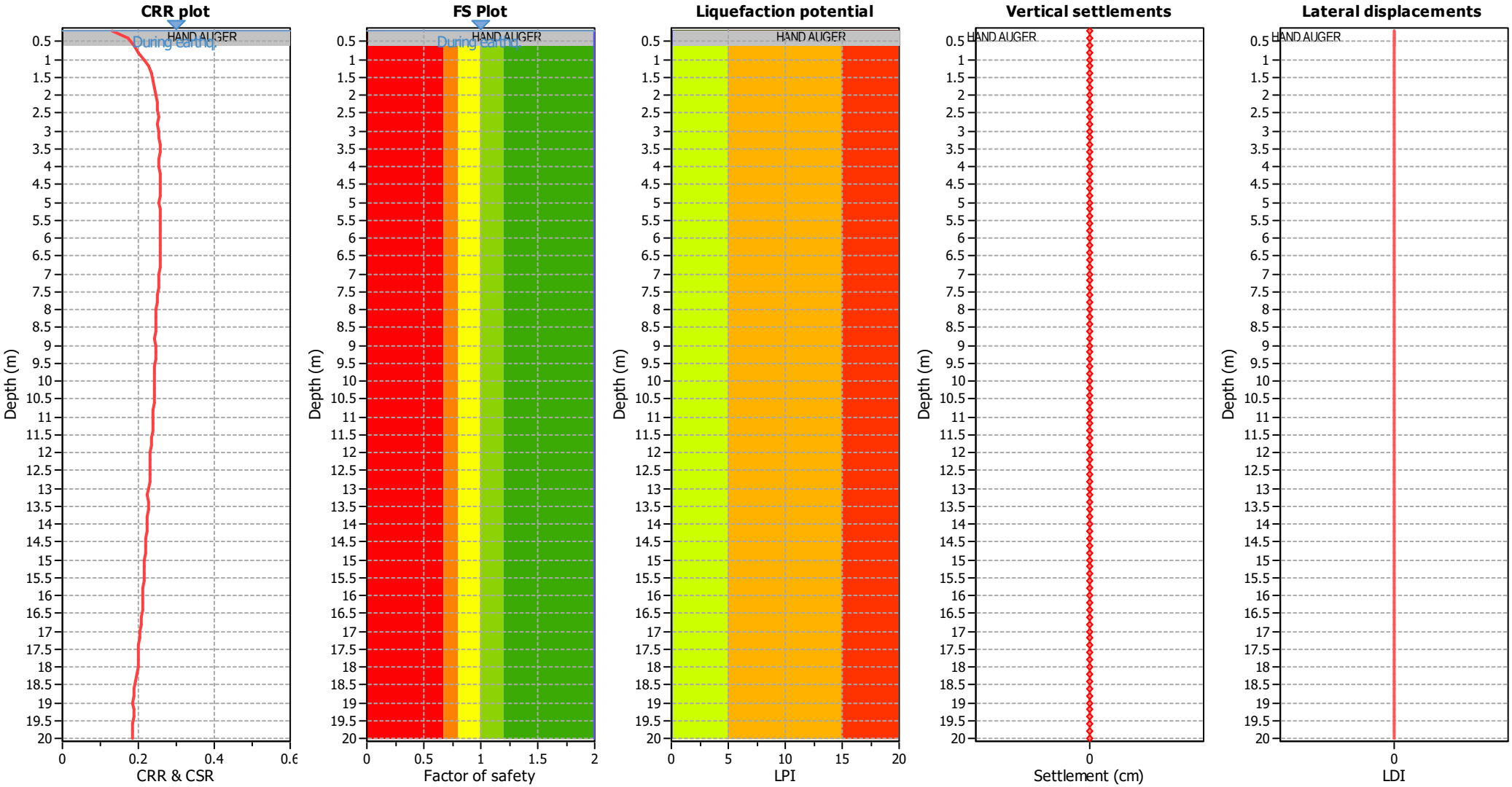






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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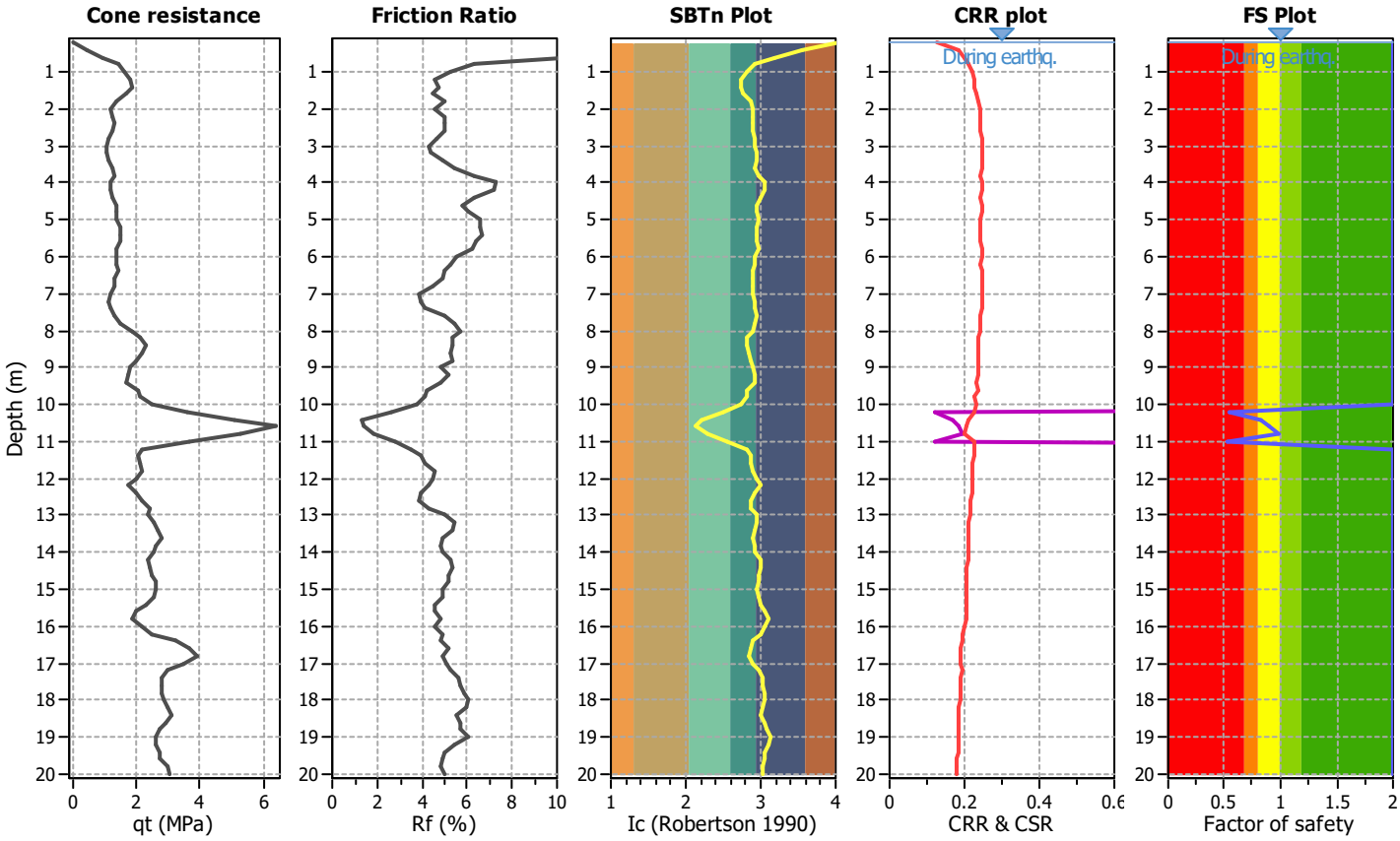
LIQUEFACTION ANALYSIS REPORT

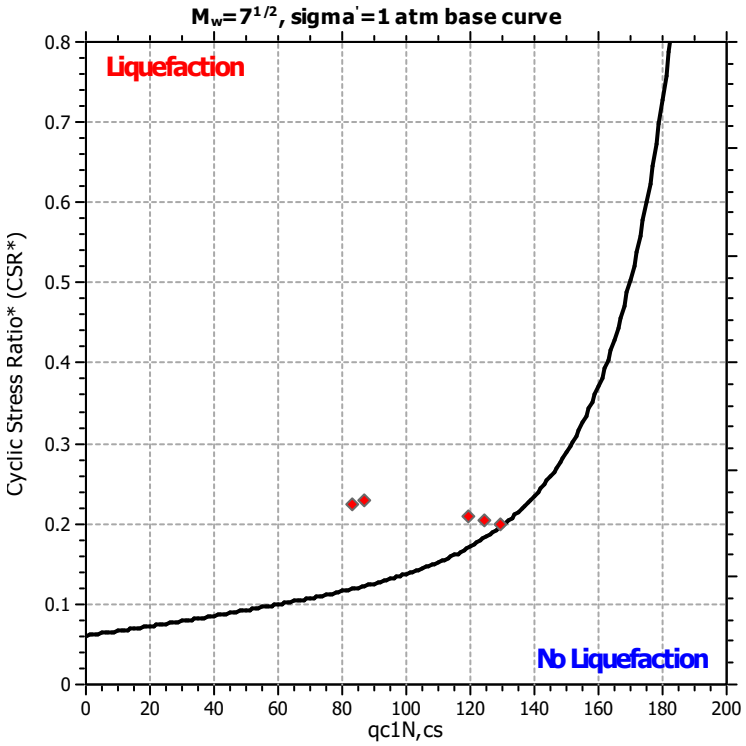
Project title : **Location :**

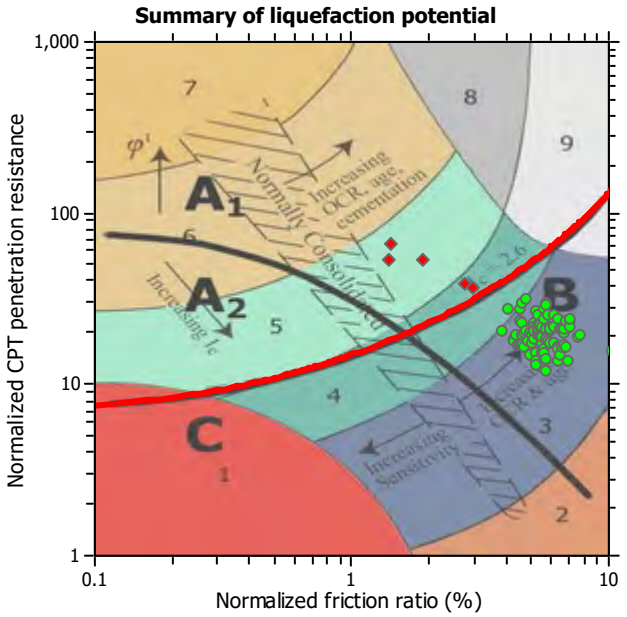
CPT file : SP228

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

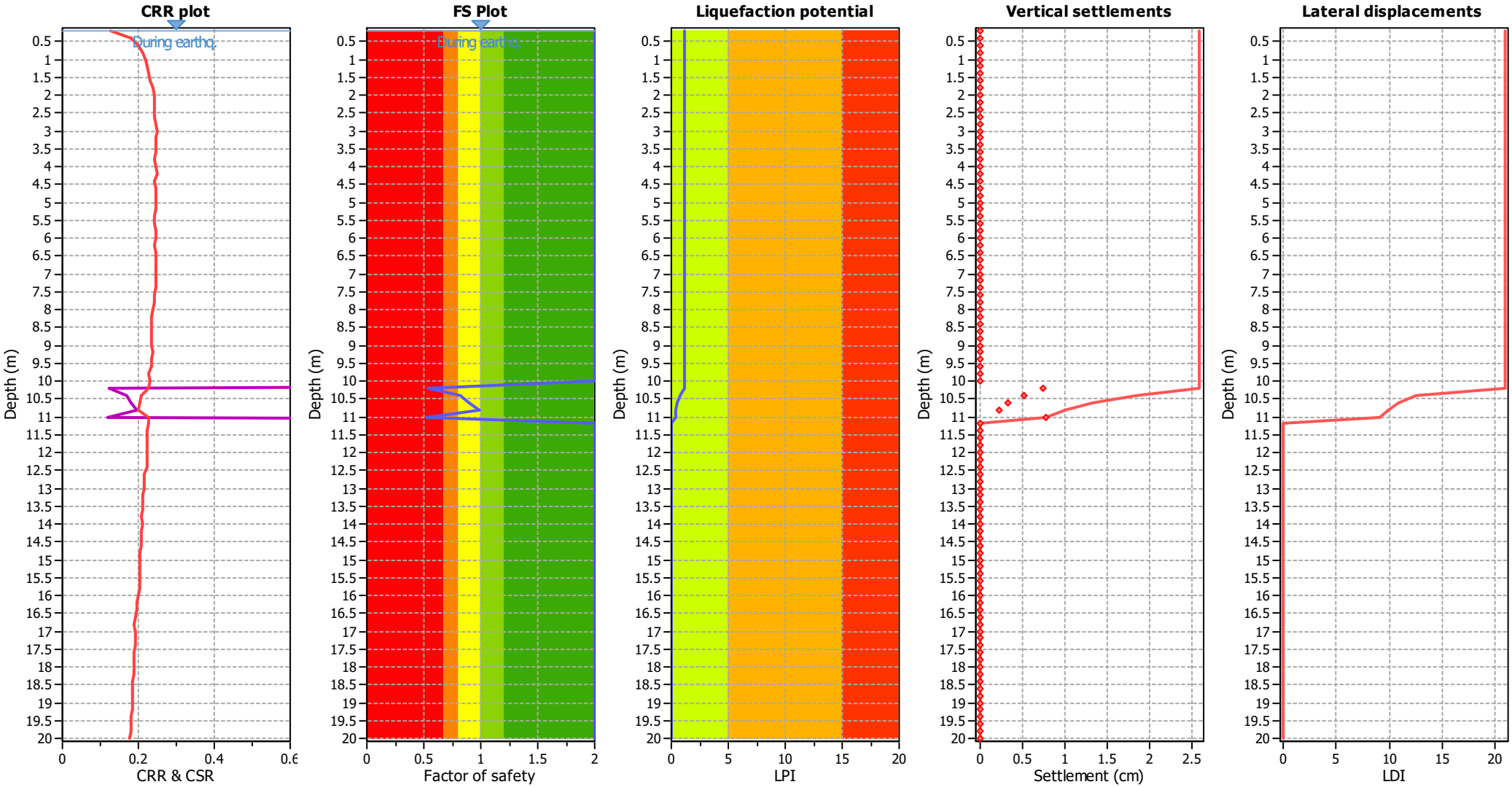






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	0.54	0.00	0.00	0.20	0.45	10.40	0.82	0.00	0.00	0.20	0.18
10.60	0.89	0.00	0.00	0.20	0.10	10.80	0.98	0.00	0.00	0.20	0.02
11.00	0.53	0.00	0.00	0.20	0.43	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.17

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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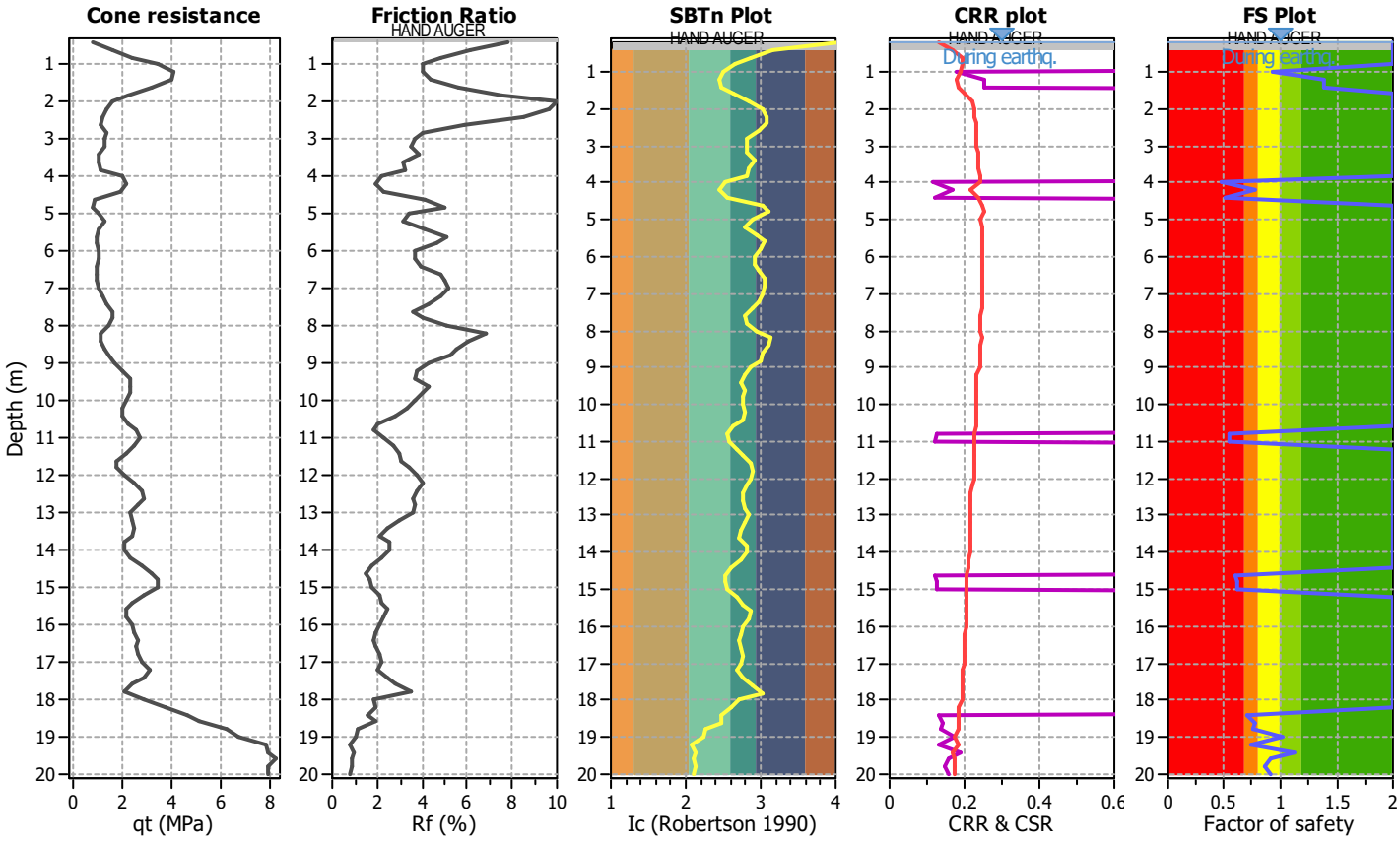
LIQUEFACTION ANALYSIS REPORT

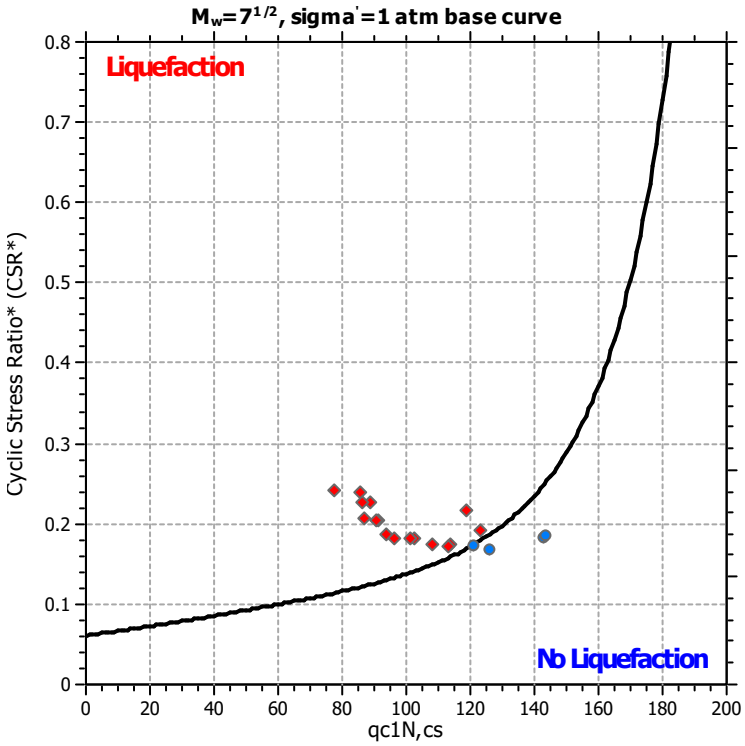
Project title : **Location :**

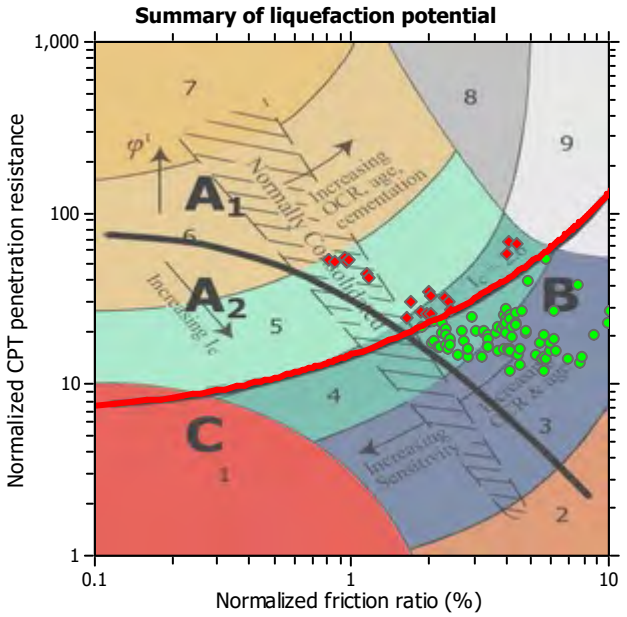
CPT file : SP230

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

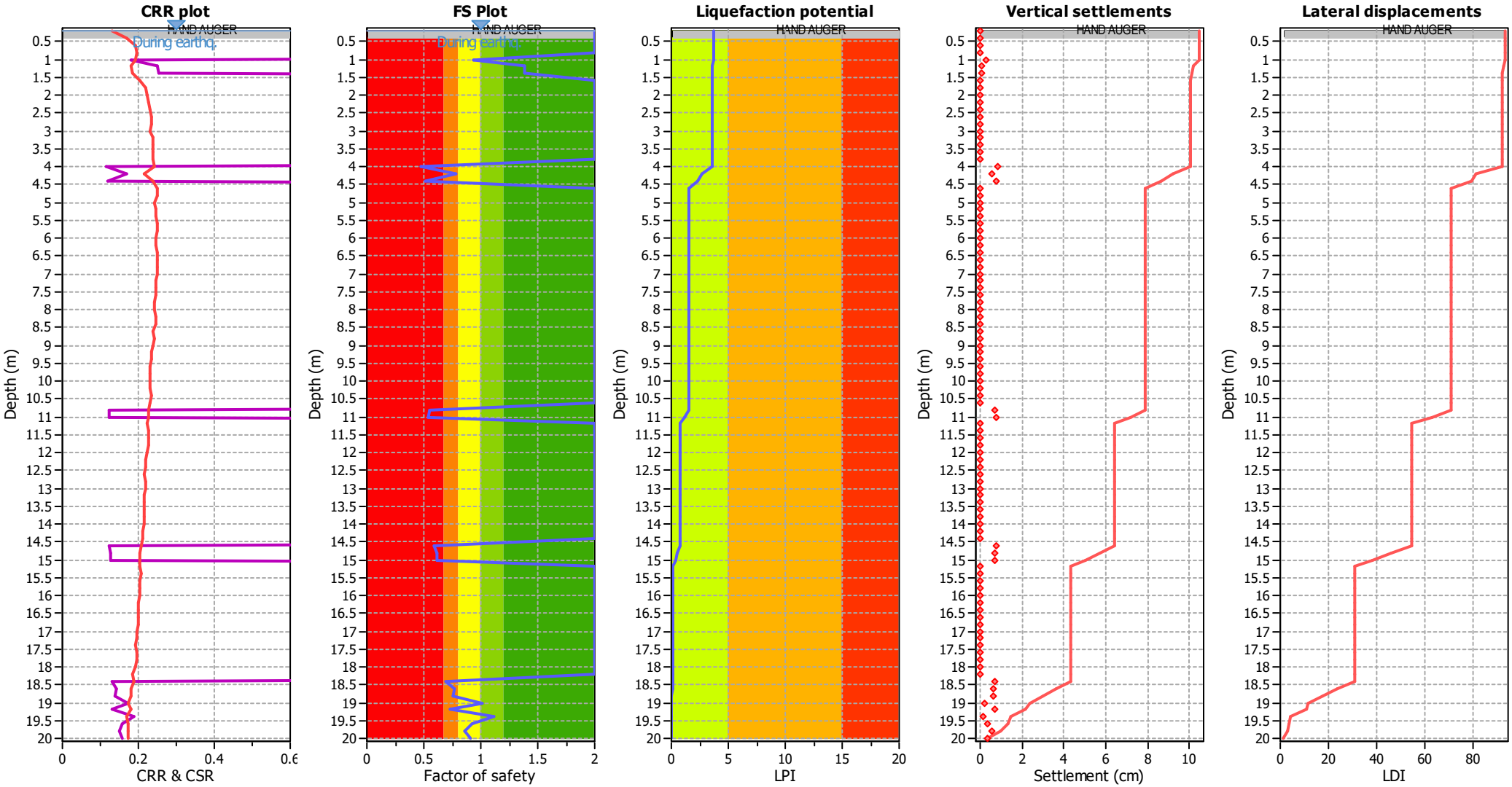






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	0.94	0.00	0.00	0.20	0.12	1.20	1.38	0.00	0.00	0.20	0.00
1.40	1.38	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.47	0.53	0.45	0.20	0.85
4.20	0.78	0.00	0.00	0.20	0.35	4.40	0.51	0.49	0.49	0.20	0.77
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	0.55	0.45	0.55	0.20	0.41
11.00	0.54	0.46	0.53	0.20	0.41	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	0.59	0.41	0.61	0.20	0.22	14.80	0.62	0.38	0.67	0.20	0.20
15.00	0.62	0.38	0.67	0.20	0.19	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	0.70	0.00	0.00	0.20	0.05
18.60	0.77	0.00	0.00	0.20	0.03	18.80	0.76	0.00	0.00	0.20	0.03
19.00	1.01	0.00	0.00	0.20	0.00	19.20	0.73	0.00	0.00	0.20	0.02

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	1.11	0.00	0.00	0.20	0.00	19.60	0.92	0.00	0.00	0.20	0.00
19.80	0.86	0.00	0.00	0.20	0.00	20.00	0.92	0.00	0.00	0.20	0.00

Overall liquefaction potential: 3.66

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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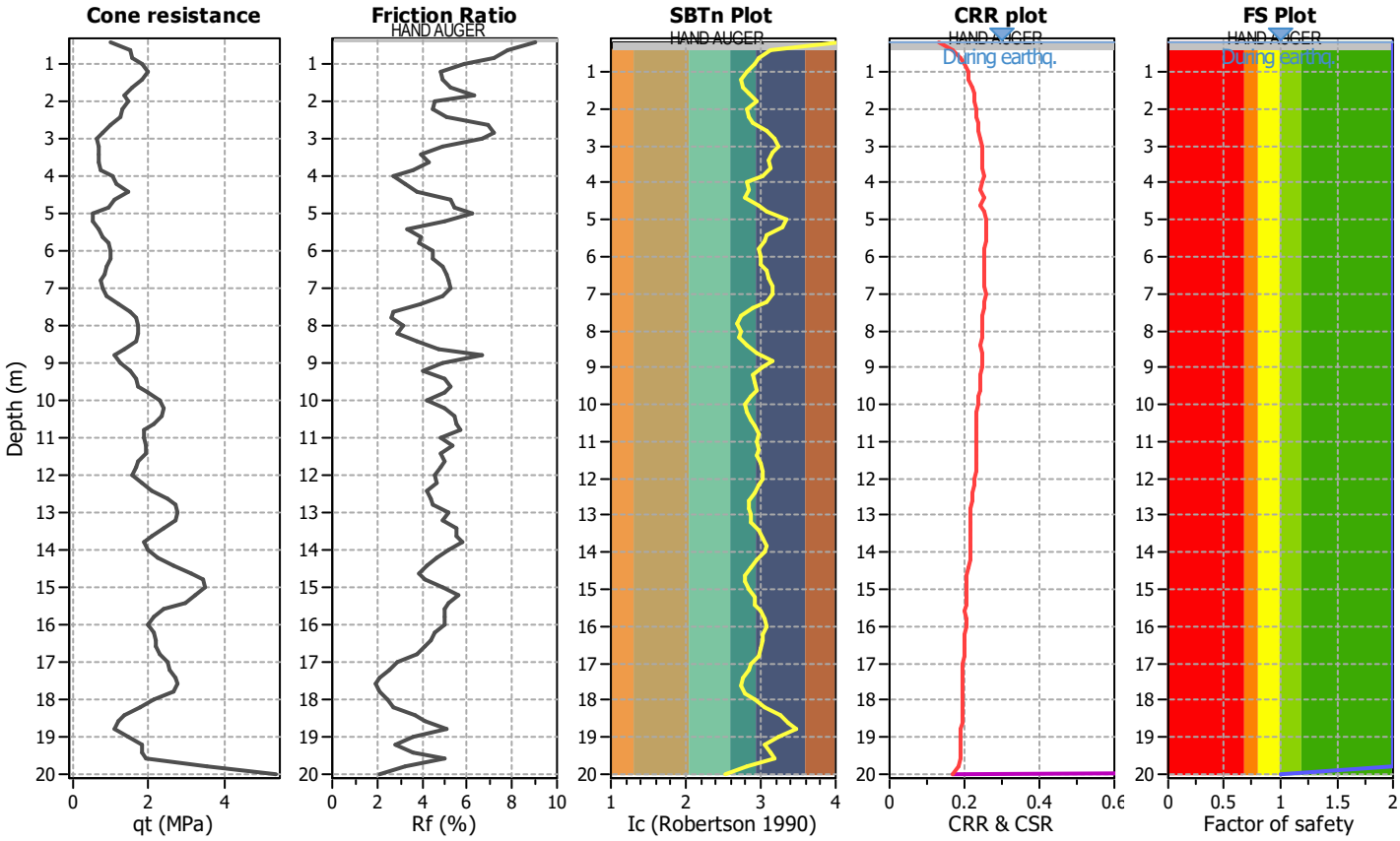
LIQUEFACTION ANALYSIS REPORT

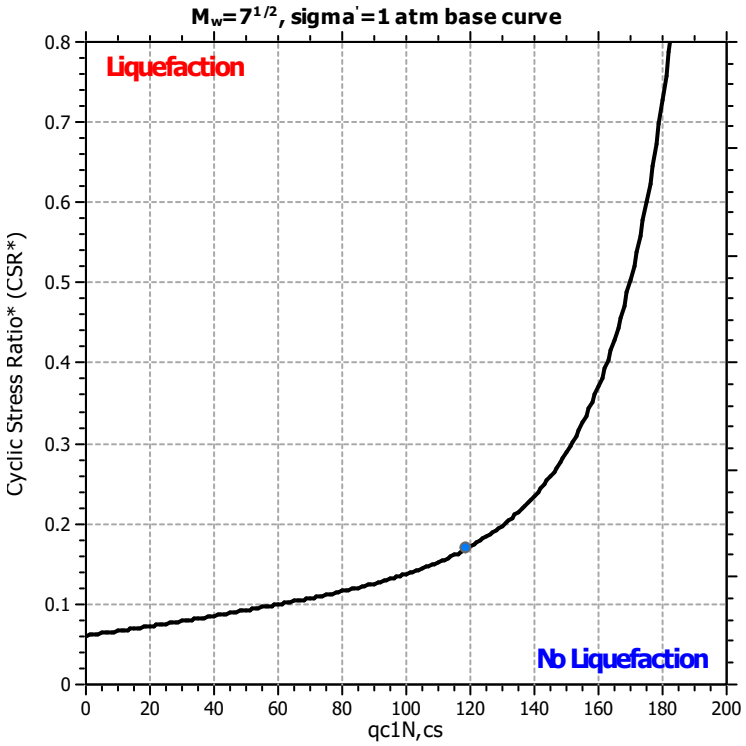
Project title : **Location :**

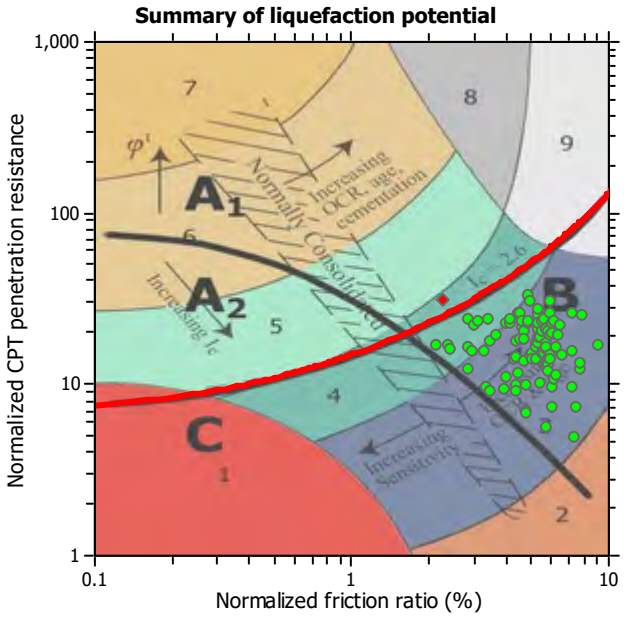
CPT file : SP231

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

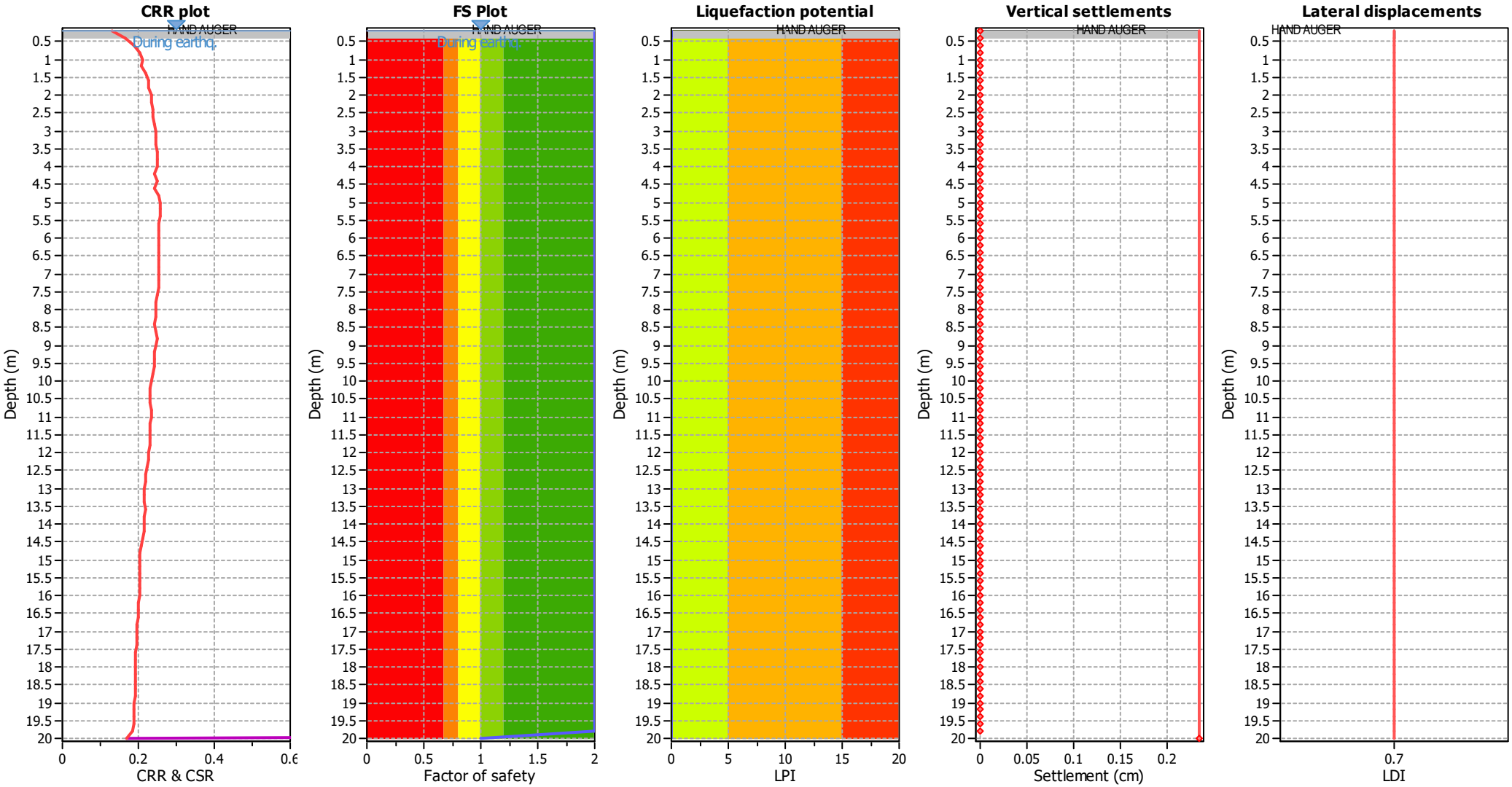






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	1.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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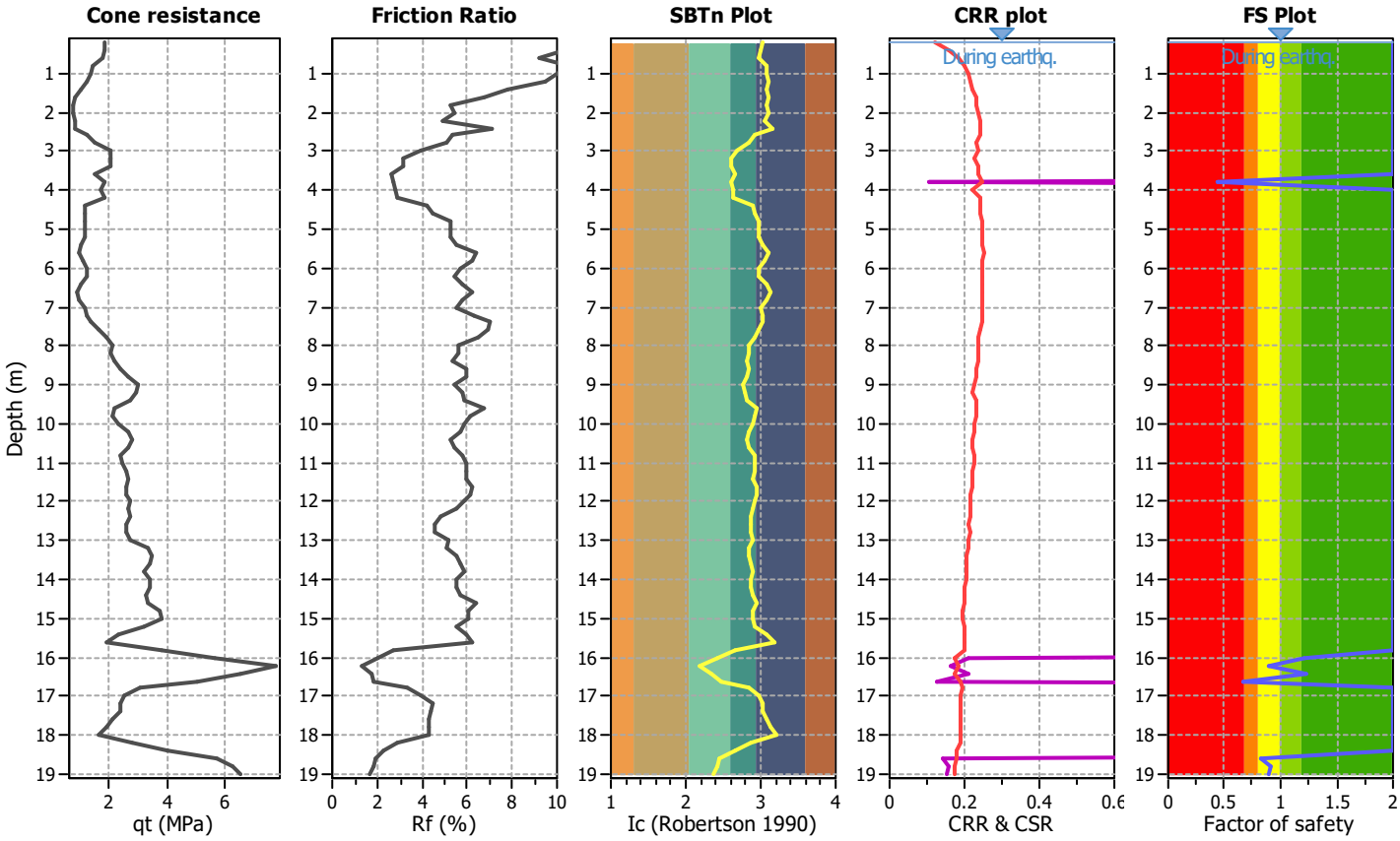
LIQUEFACTION ANALYSIS REPORT

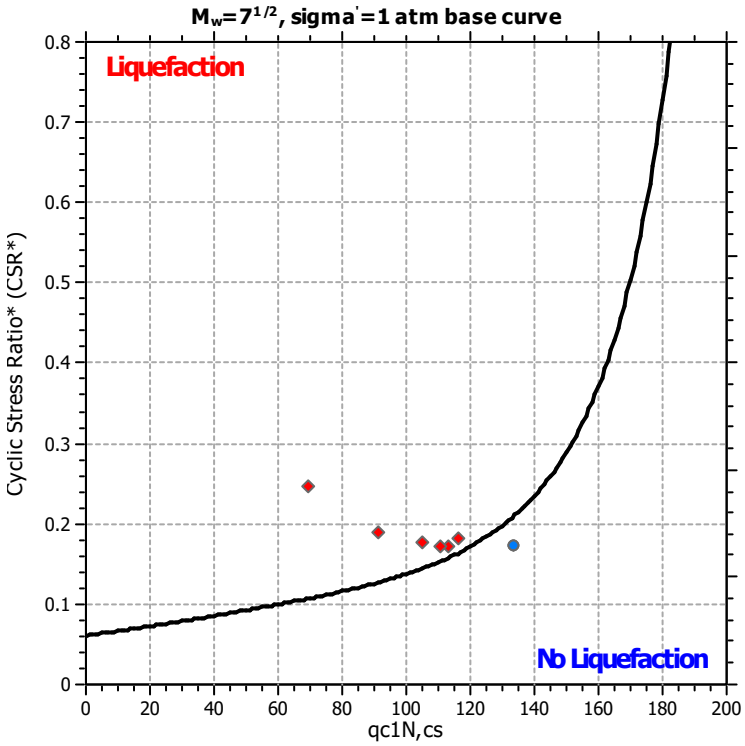
Project title : **Location :**

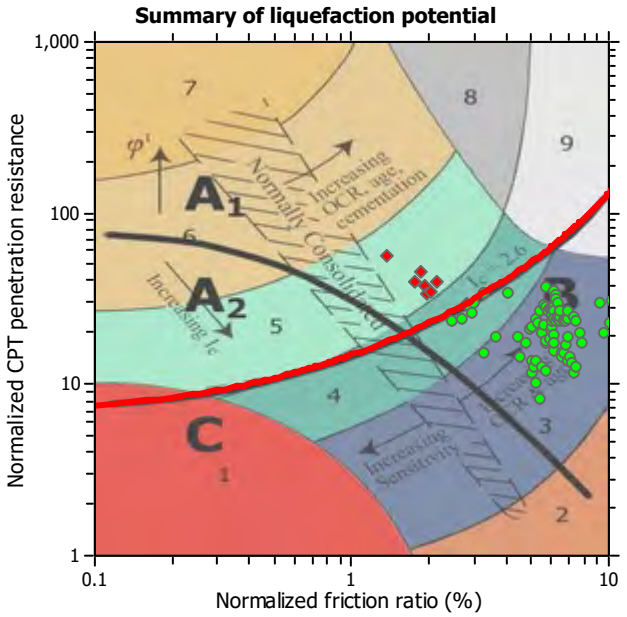
CPT file : SP236

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

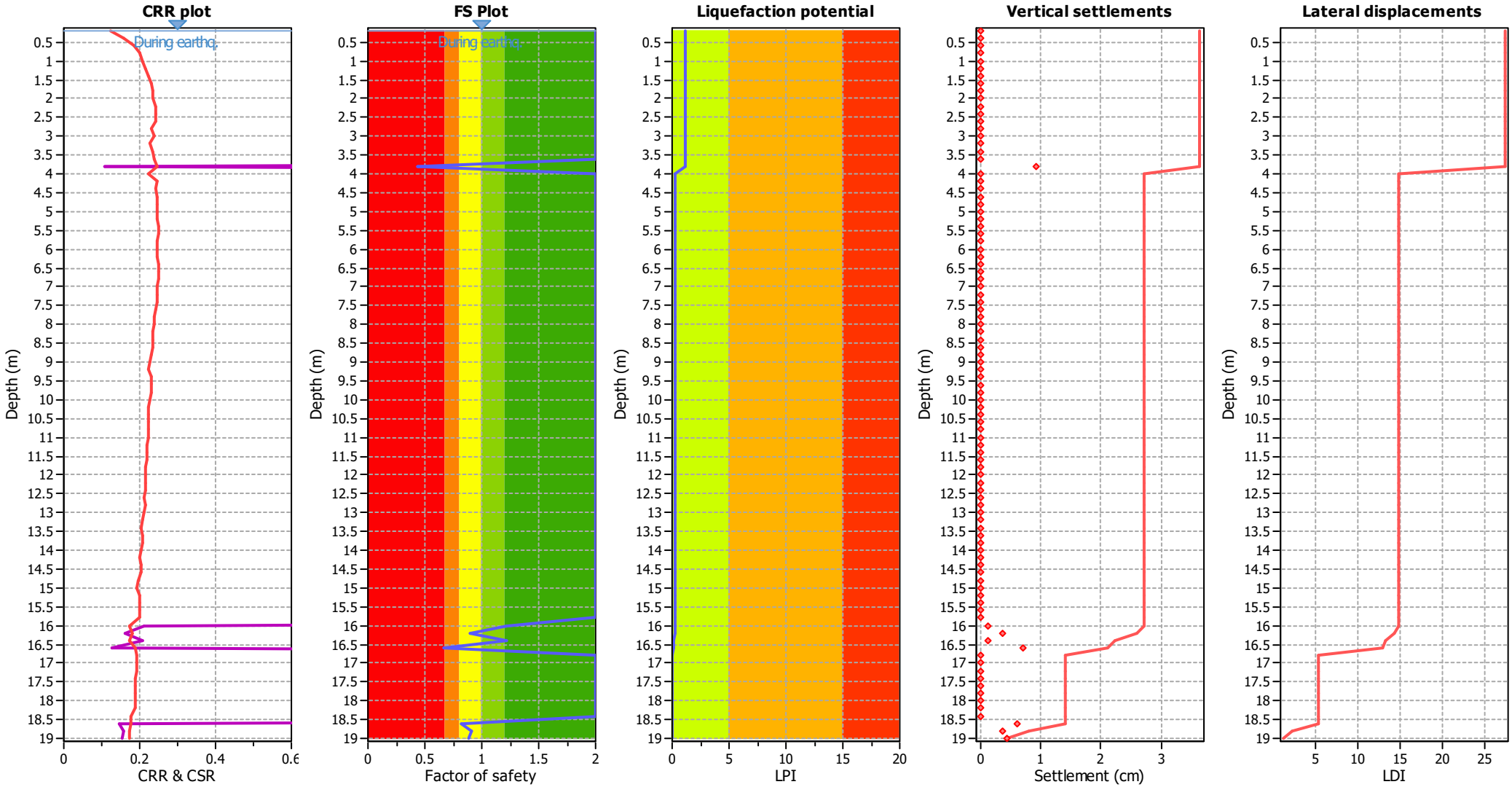






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	0.43	0.00	0.00	0.20	0.92	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	1.22	0.00	0.00	0.20	0.00
16.20	0.90	0.00	0.00	0.20	0.04	16.40	1.22	0.00	0.00	0.20	0.00
16.60	0.67	0.00	0.00	0.20	0.11	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	0.82	0.00	0.00	0.20	0.03	18.80	0.92	0.00	0.00	0.20	0.01
19.00	0.89	0.00	0.00	0.20	0.01						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 1.11

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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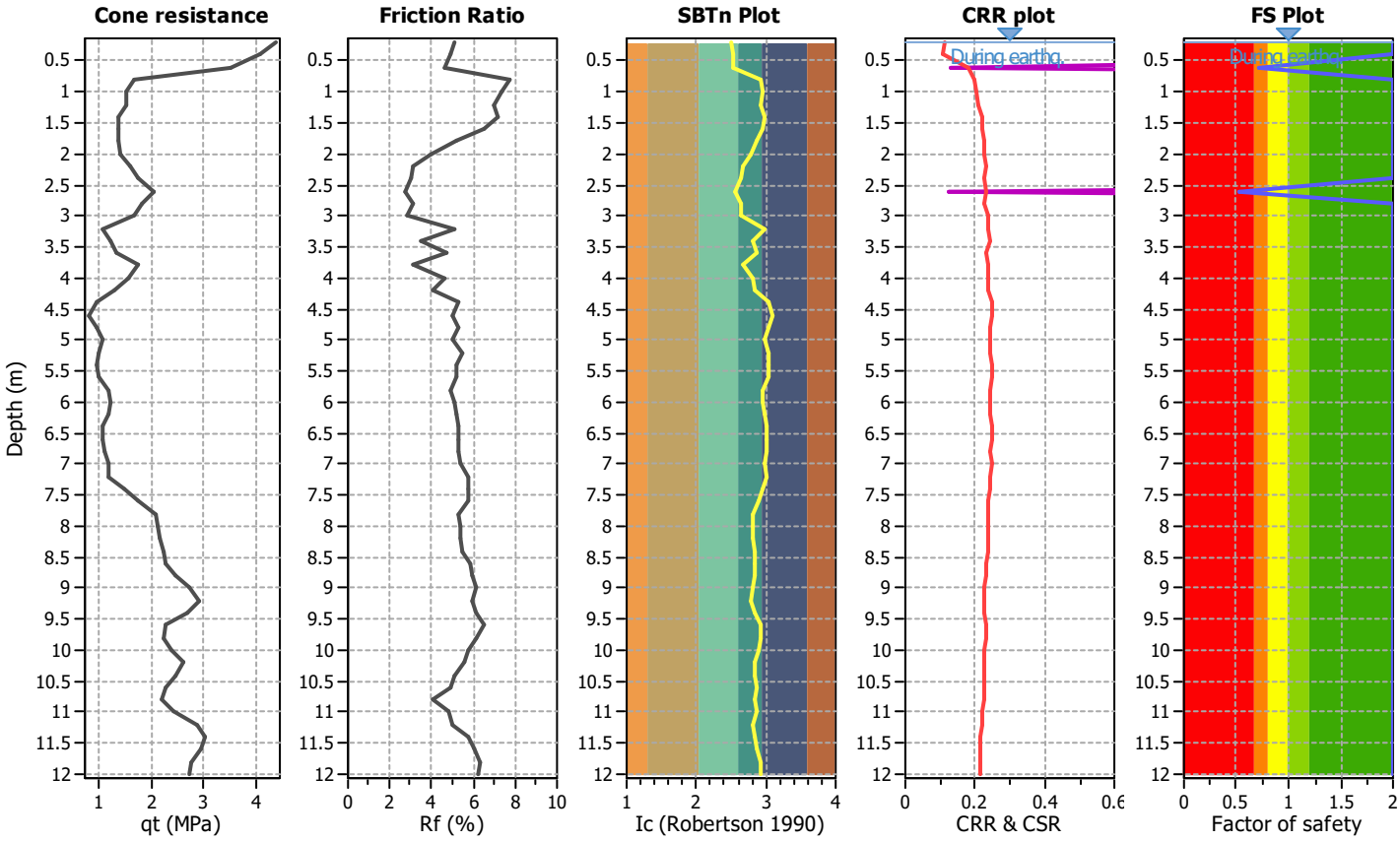
LIQUEFACTION ANALYSIS REPORT

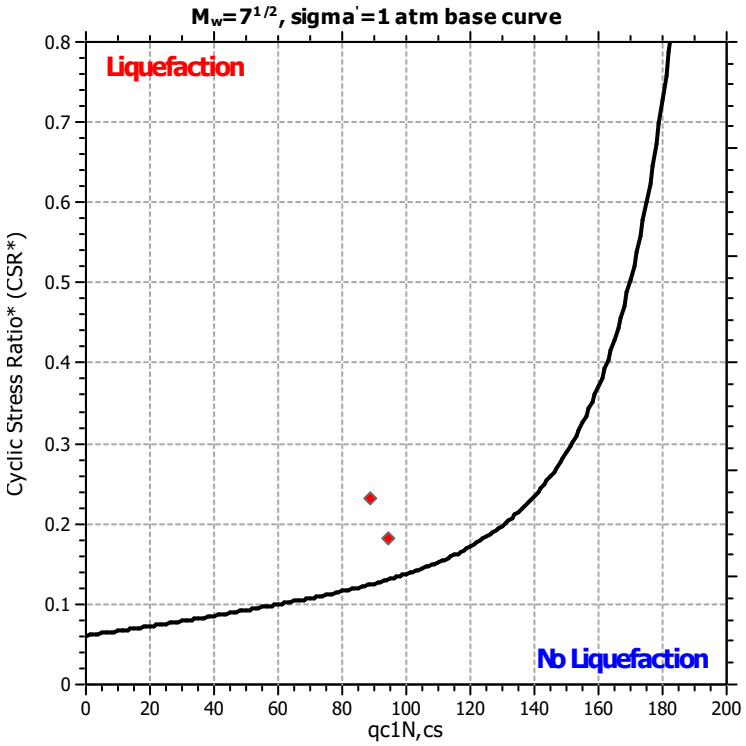
Project title : **Location :**

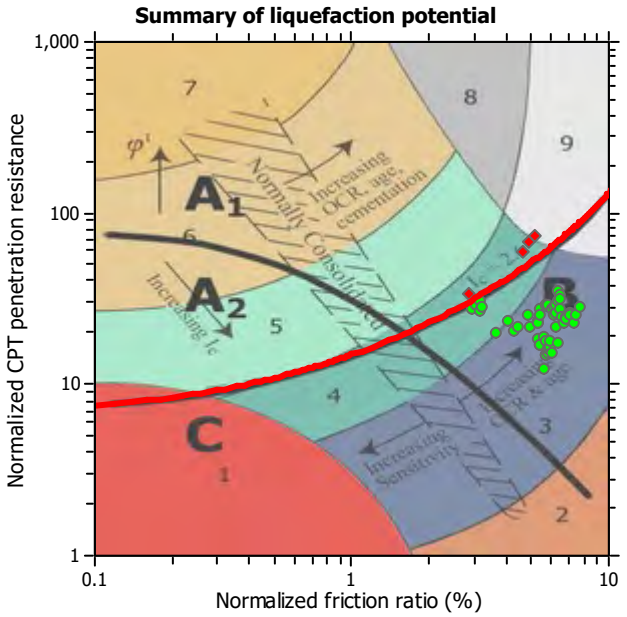
CPT file : SP237

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

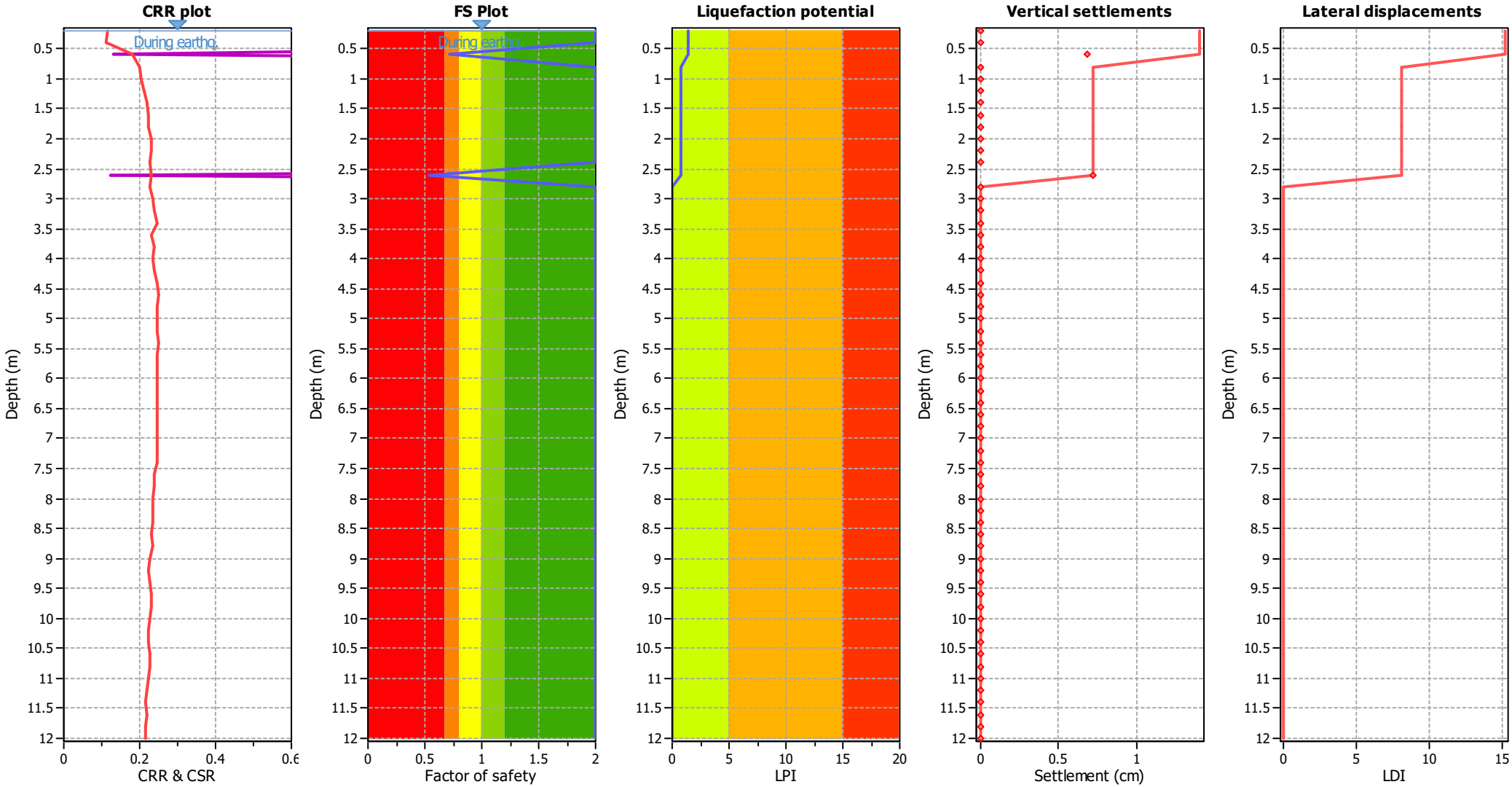






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.72	0.28	1.01	0.20	0.54	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	0.54	0.46	0.52	0.20	0.81	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.35

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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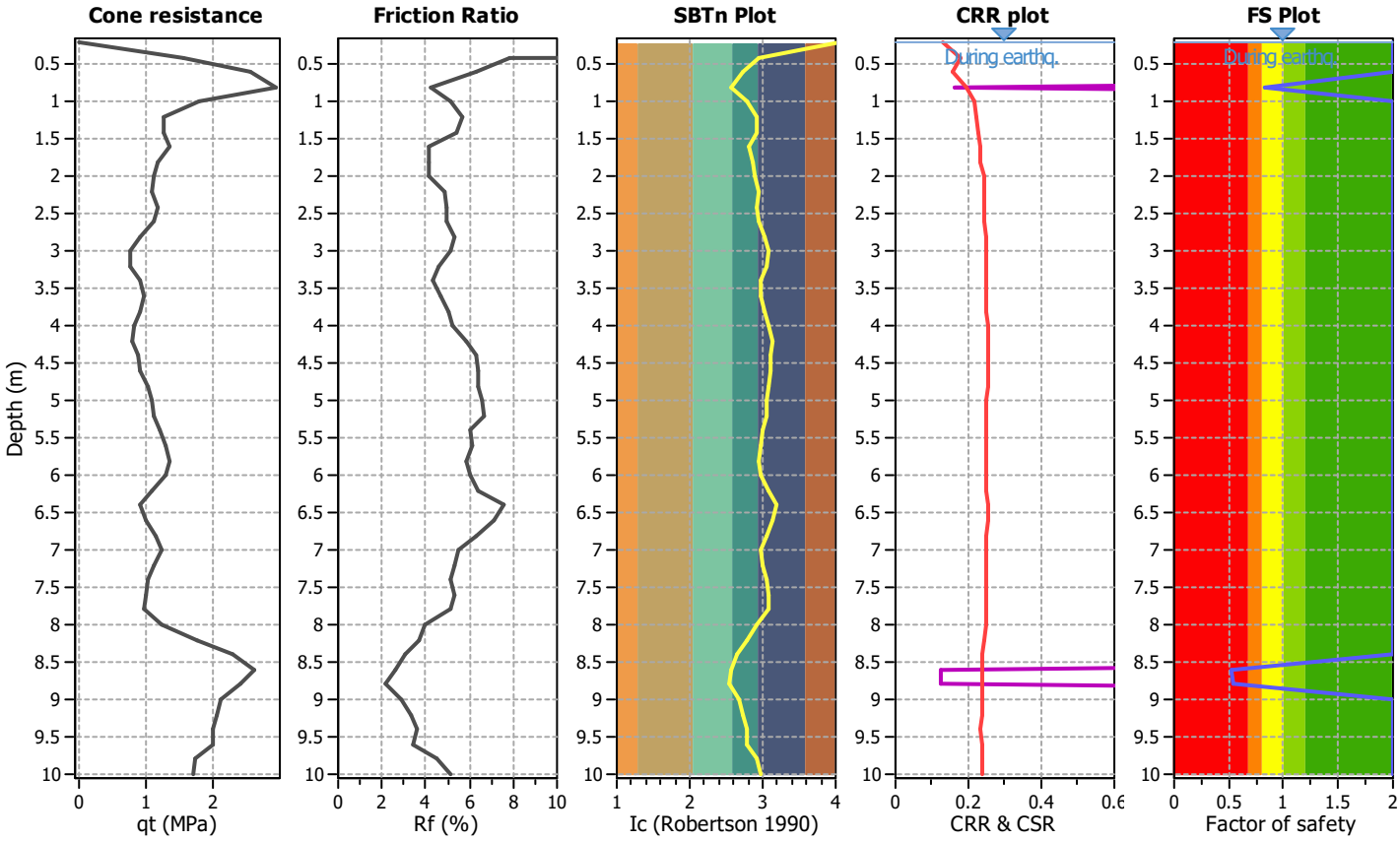
LIQUEFACTION ANALYSIS REPORT

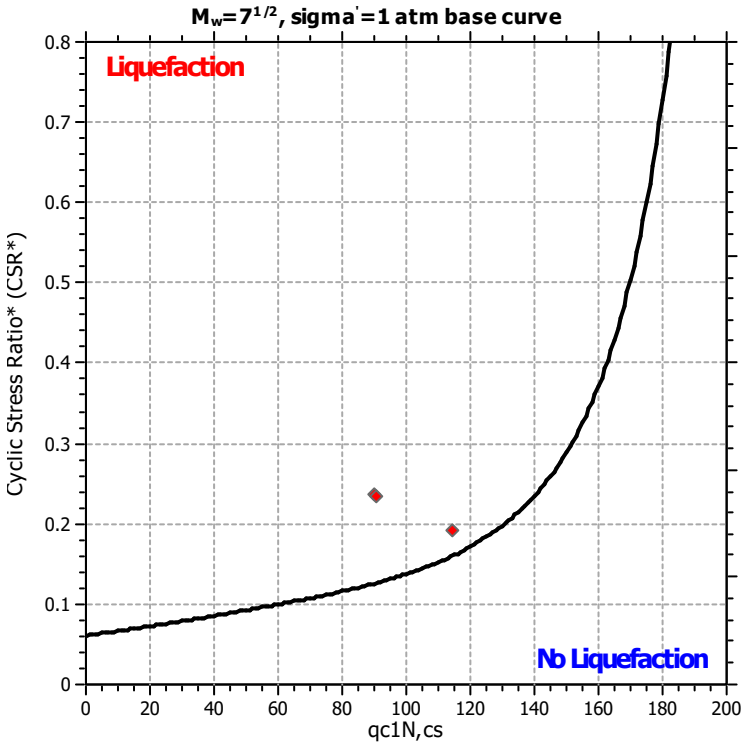
Project title : **Location :**

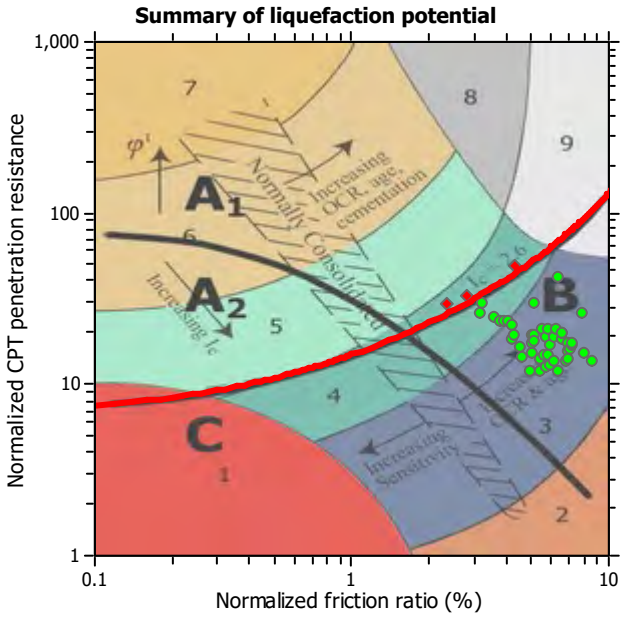
CPT file : SP238

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

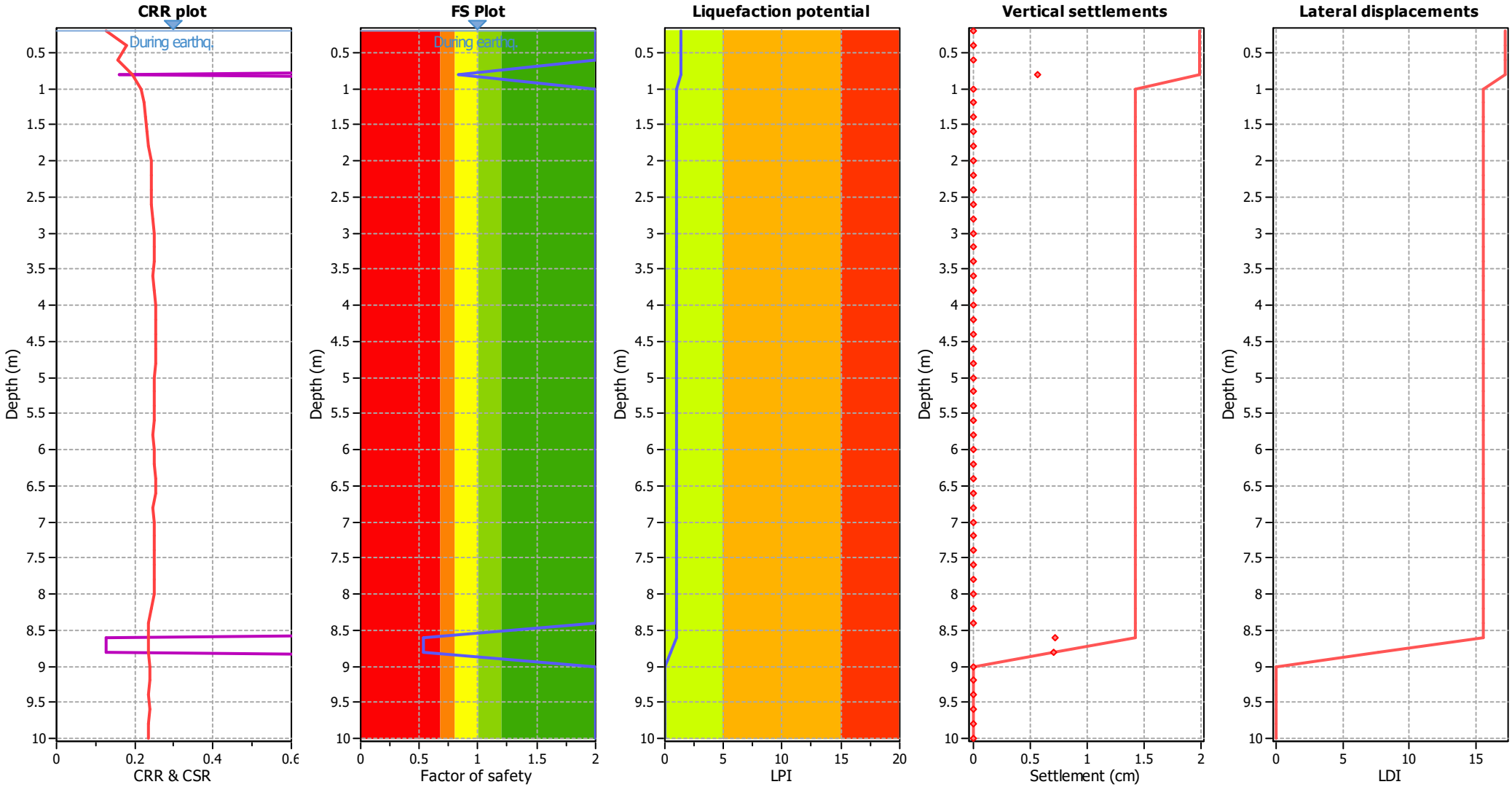






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	0.83	0.17	2.19	0.20	0.32
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	0.53	0.47	0.52	0.20	0.53	8.80	0.54	0.46	0.53	0.20	0.52
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 1.38

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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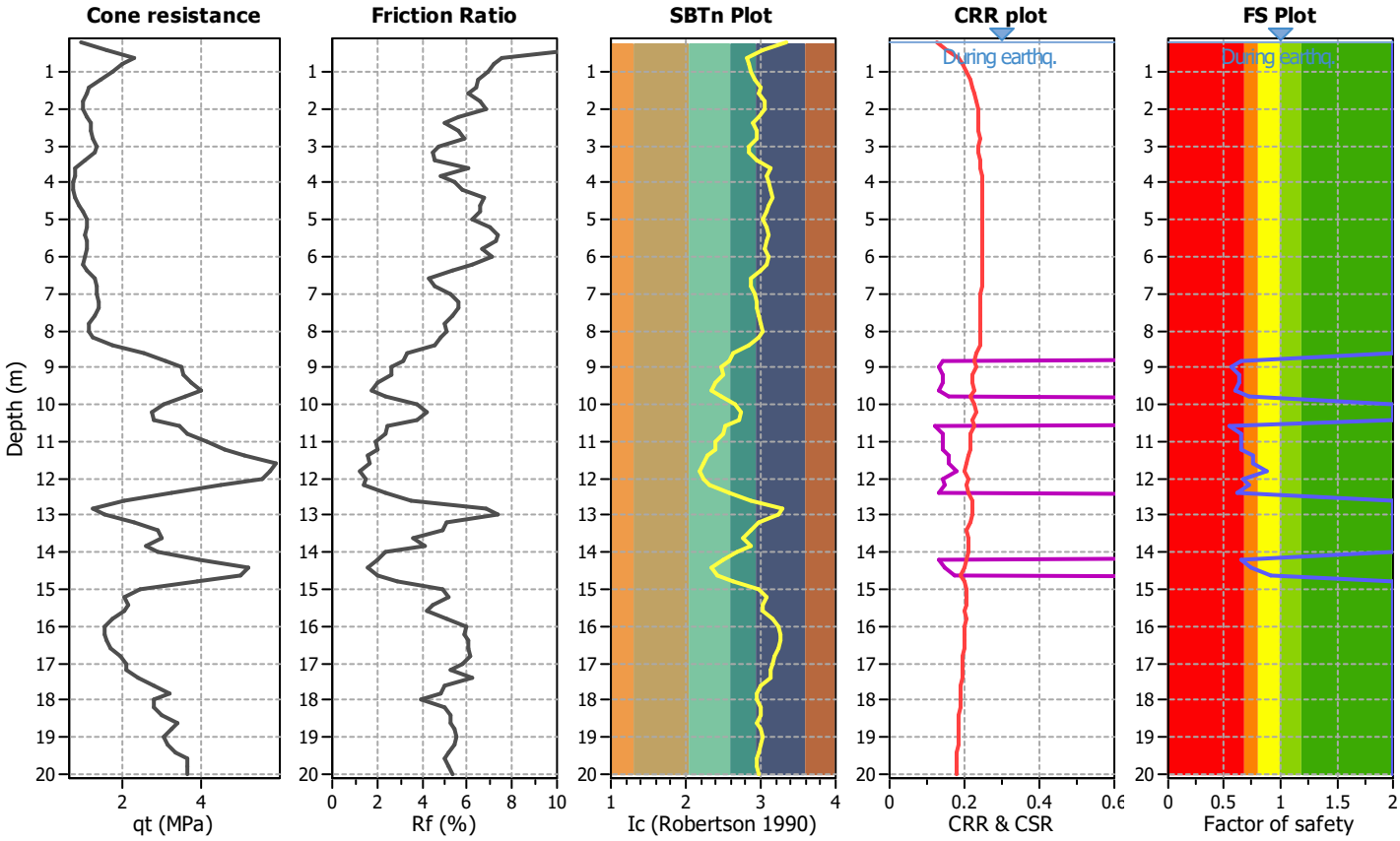
LIQUEFACTION ANALYSIS REPORT

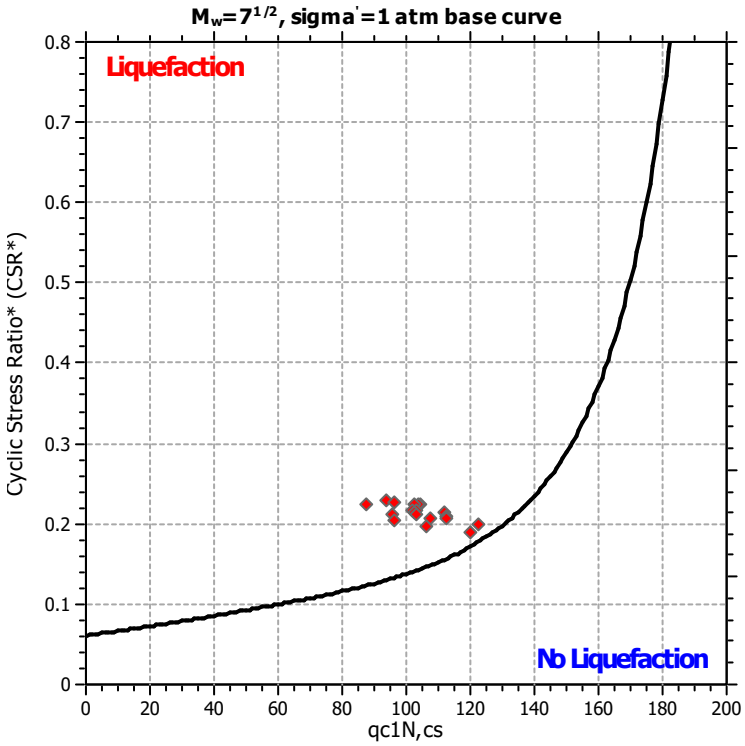
Project title : **Location :**

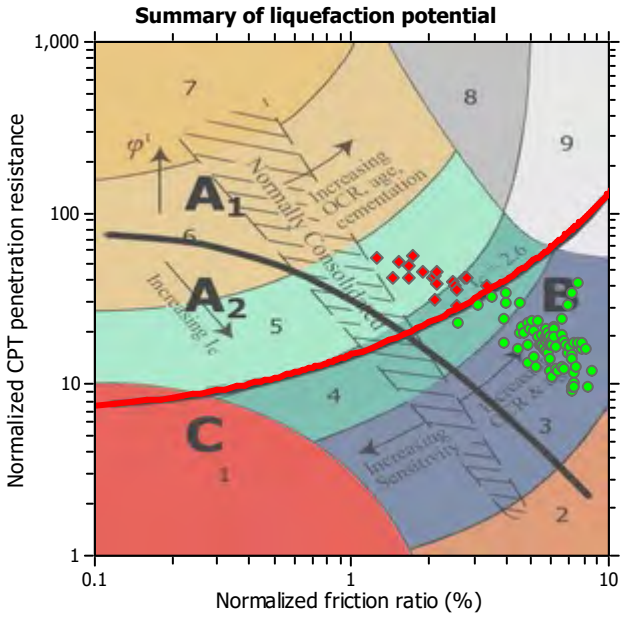
CPT file : SP239

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

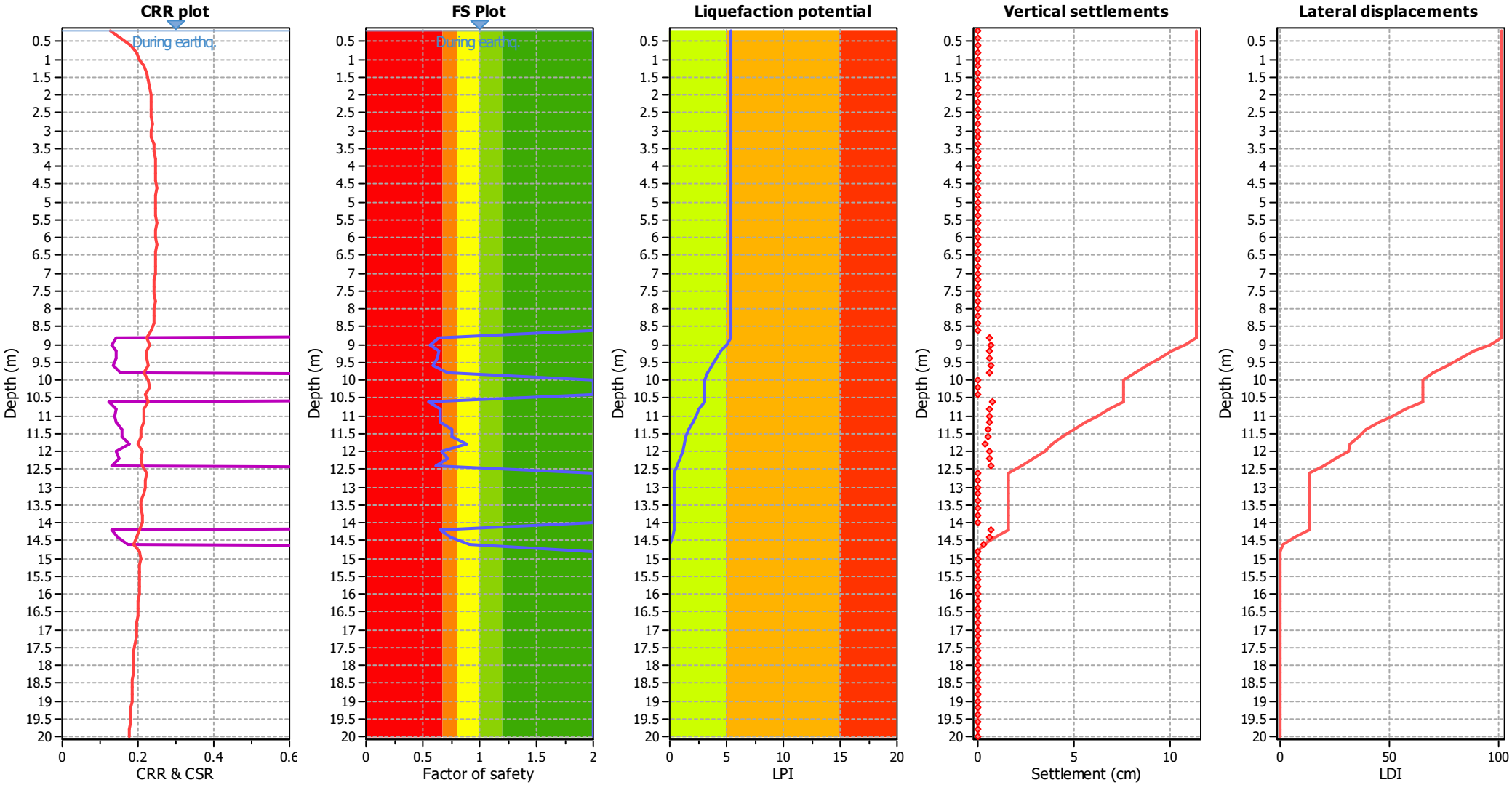






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	0.64	0.00	0.00	0.20	0.40
9.00	0.57	0.00	0.00	0.20	0.48	9.20	0.64	0.00	0.00	0.20	0.39
9.40	0.63	0.00	0.00	0.20	0.39	9.60	0.59	0.00	0.00	0.20	0.43
9.80	0.72	0.00	0.00	0.20	0.28	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	0.55	0.00	0.00	0.20	0.43	10.80	0.66	0.00	0.00	0.20	0.32
11.00	0.65	0.00	0.00	0.20	0.32	11.20	0.66	0.00	0.00	0.20	0.30
11.40	0.75	0.00	0.00	0.20	0.21	11.60	0.76	0.00	0.00	0.20	0.20
11.80	0.89	0.00	0.00	0.20	0.09	12.00	0.67	0.00	0.00	0.20	0.26
12.20	0.71	0.00	0.00	0.20	0.22	12.40	0.62	0.00	0.00	0.20	0.29
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	0.65	0.00	0.00	0.20	0.20	14.40	0.74	0.00	0.00	0.20	0.15
14.60	0.91	0.00	0.00	0.20	0.05	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 5.42

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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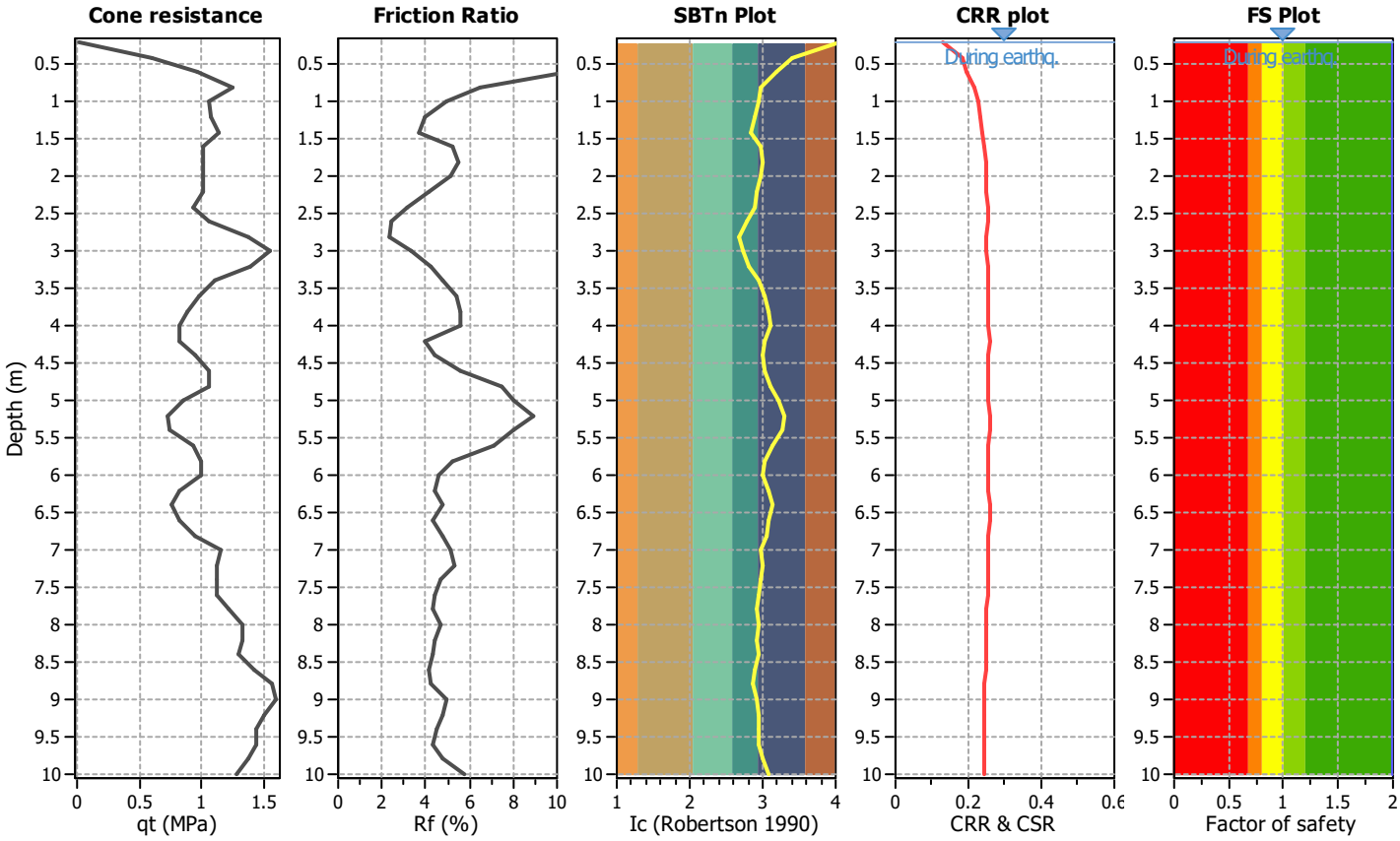
LIQUEFACTION ANALYSIS REPORT

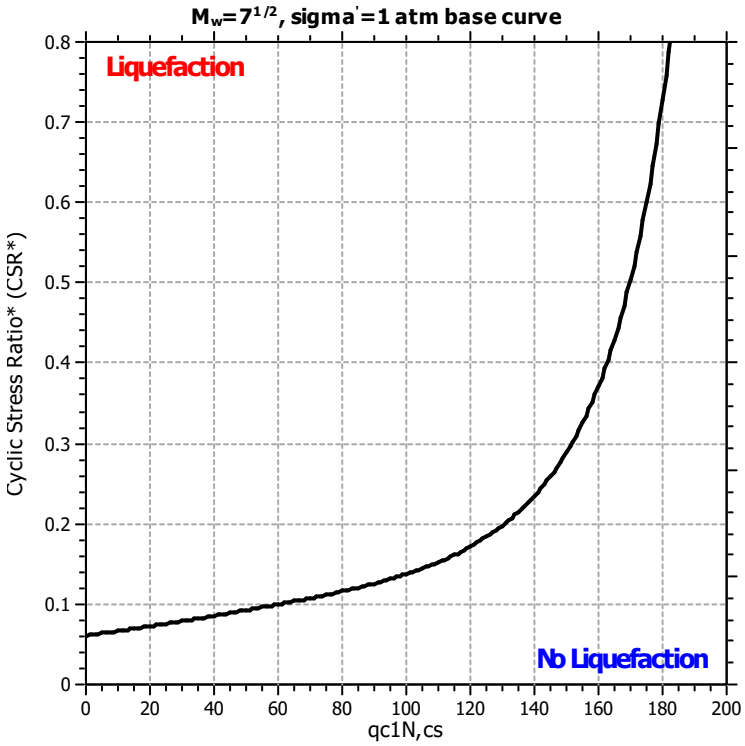
Project title : **Location :**

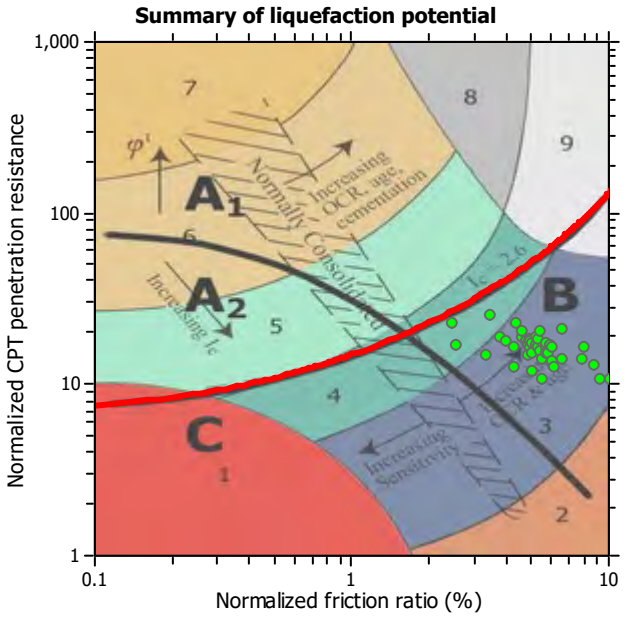
CPT file : SP240

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

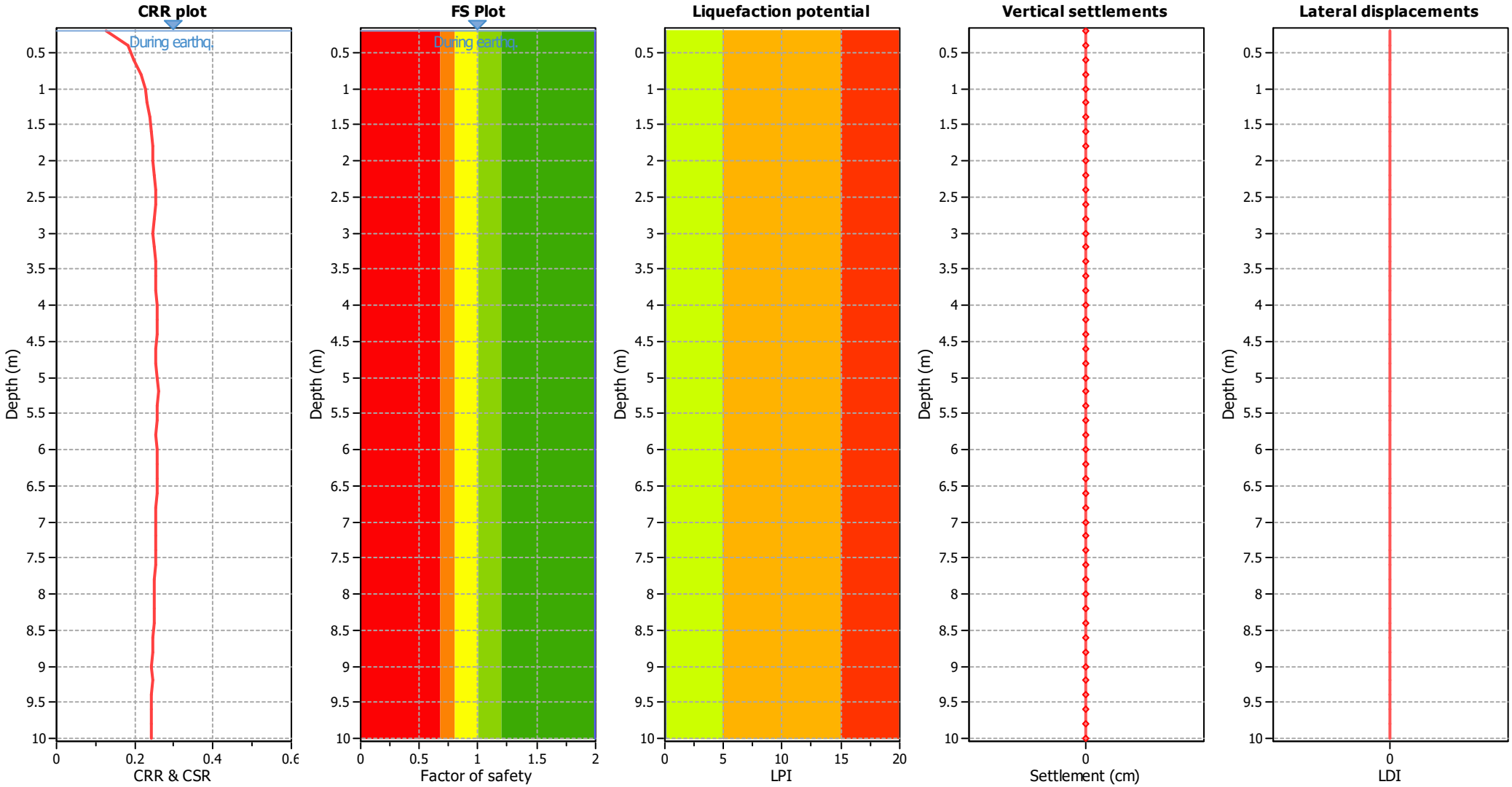






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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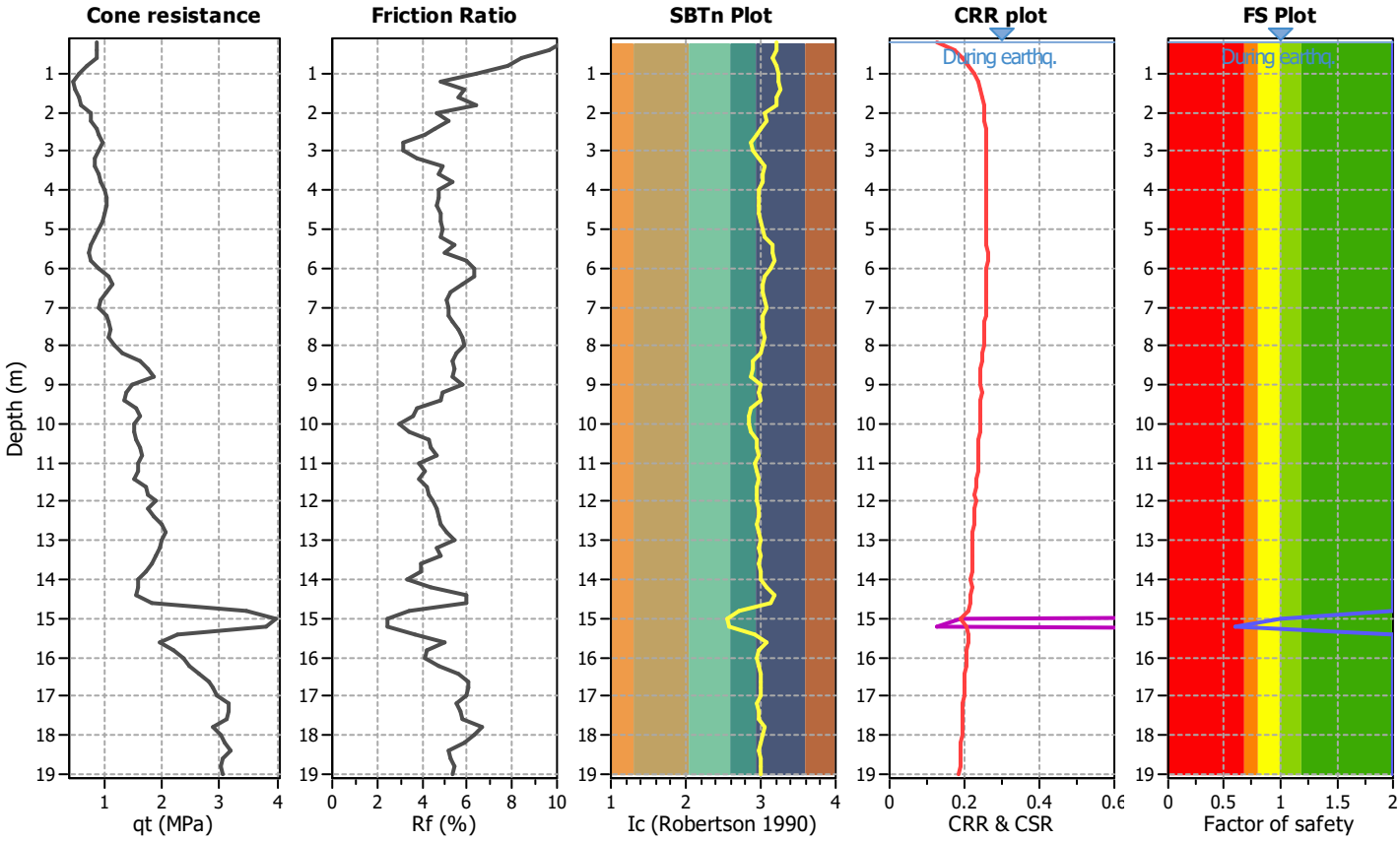
LIQUEFACTION ANALYSIS REPORT

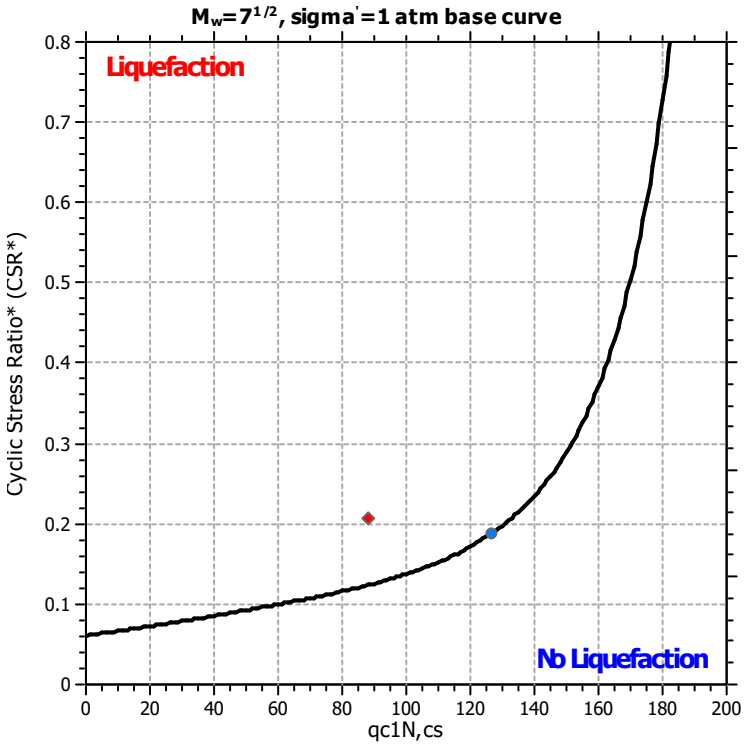
Project title : **Location :**

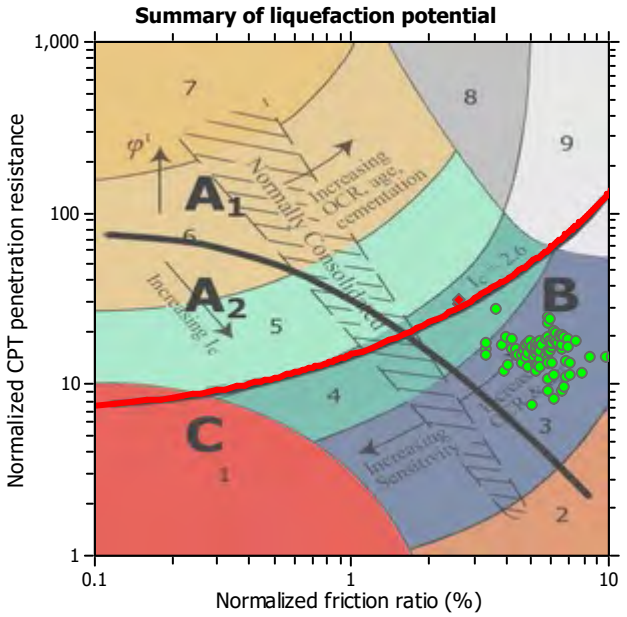
CPT file : SP245

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

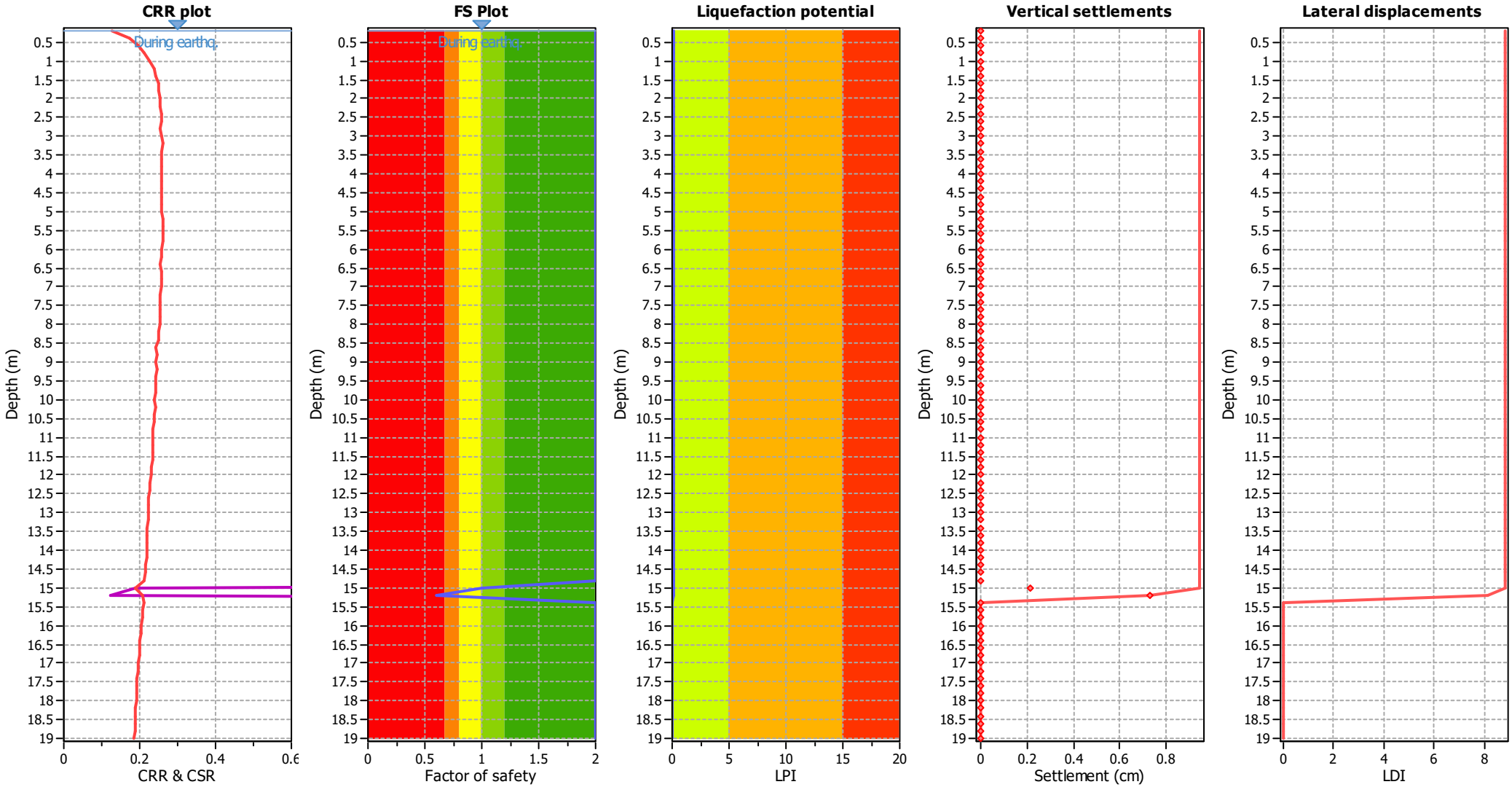






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	1.00	0.00	0.00	0.20	0.00	15.20	0.60	0.40	0.63	0.20	0.19
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00						

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}

Overall liquefaction potential: 0.19

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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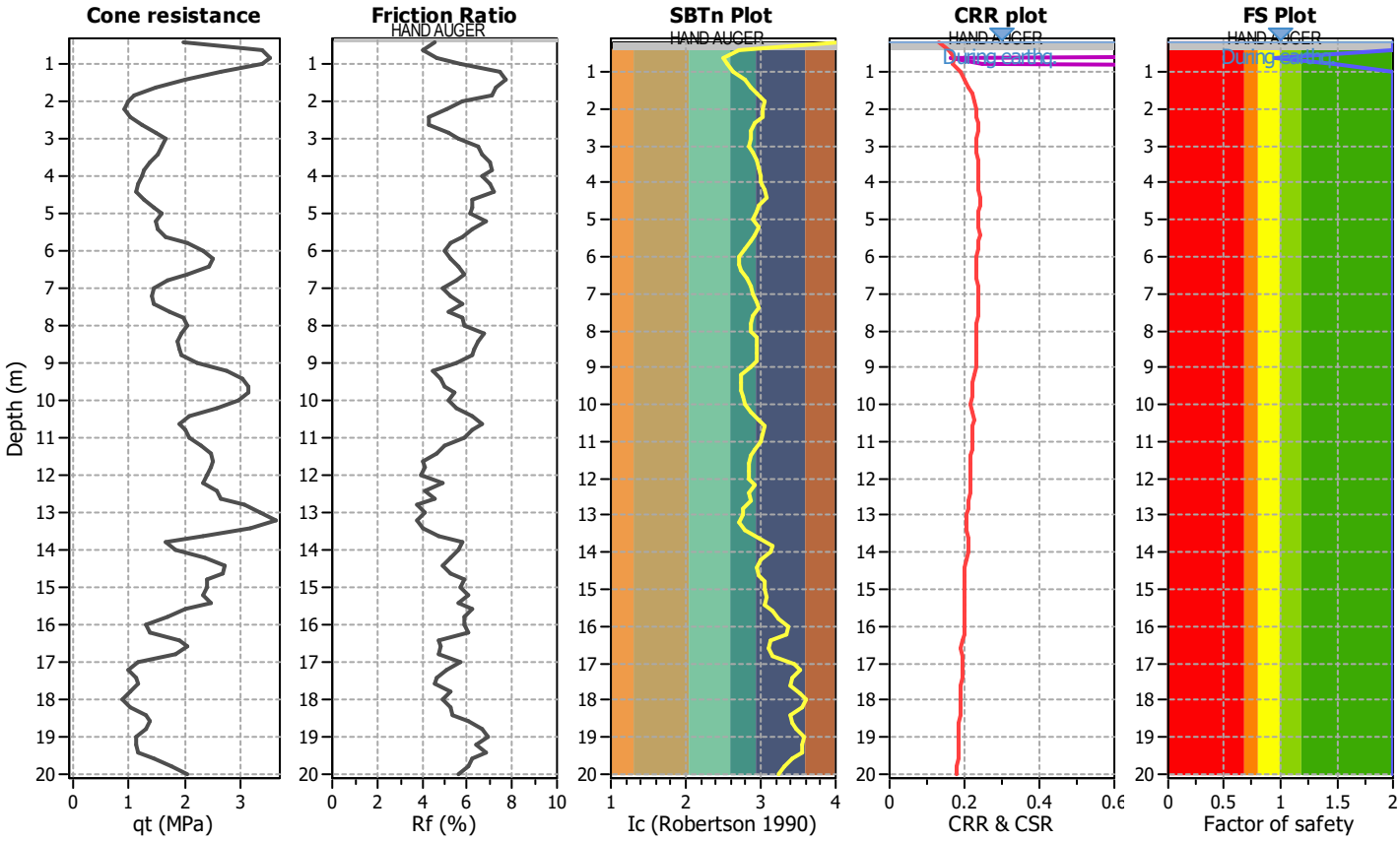
LIQUEFACTION ANALYSIS REPORT

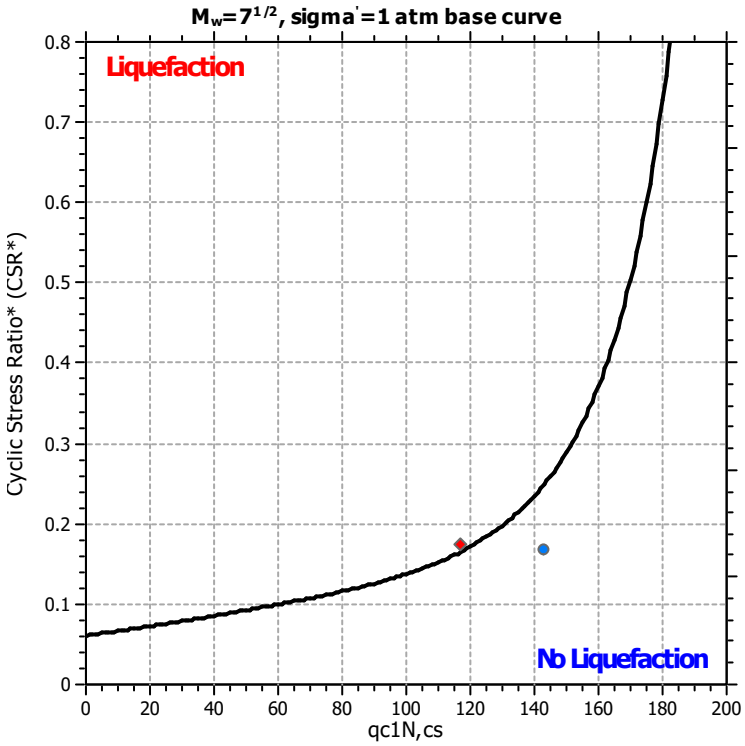
Project title : **Location :**

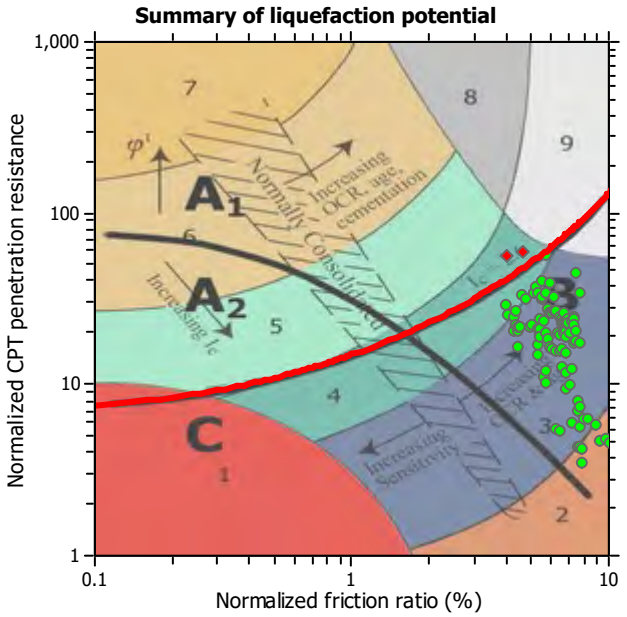
CPT file : SP247

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

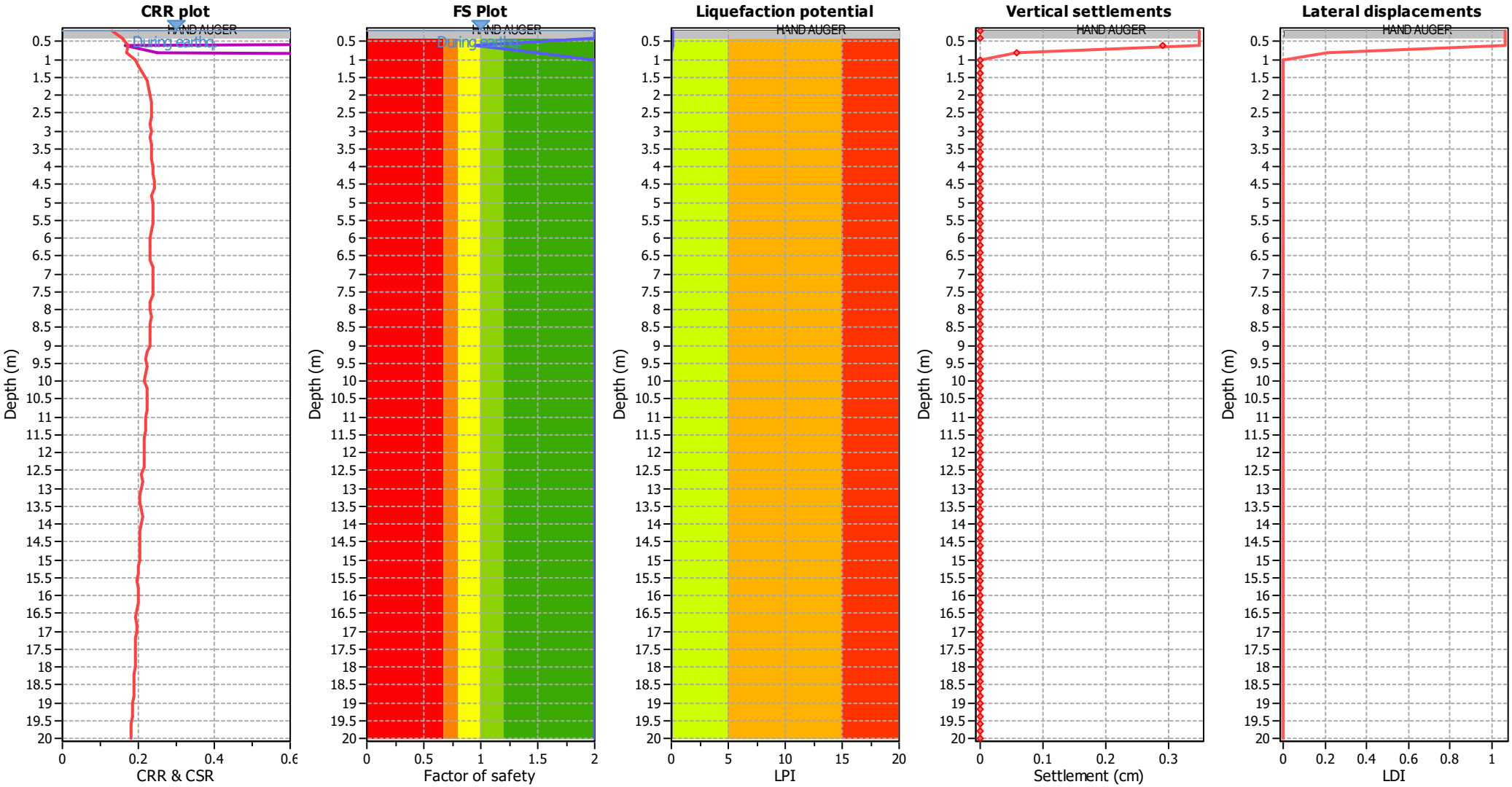






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.95	0.05	48.04	0.20	0.10	0.80	1.48	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.10

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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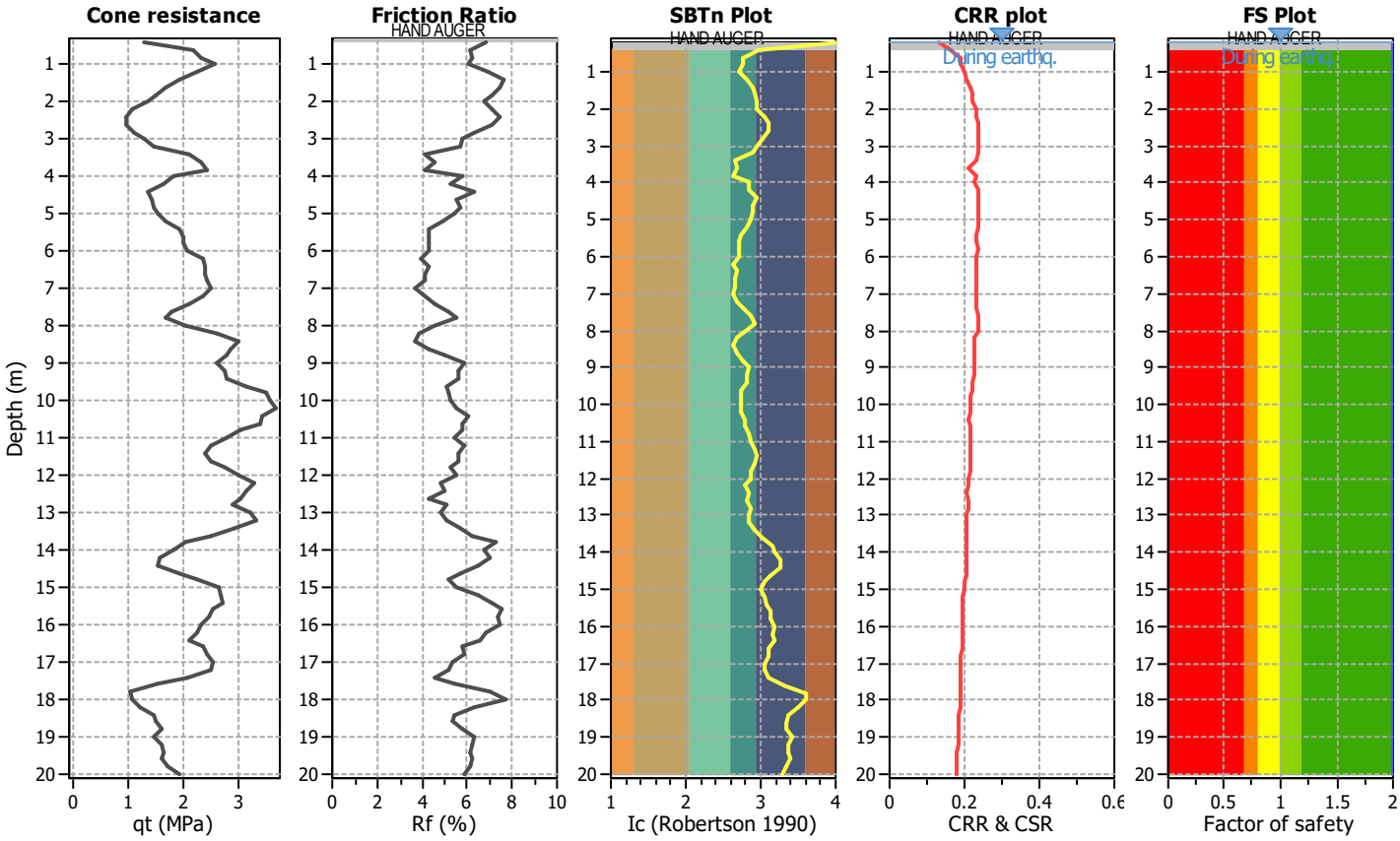
LIQUEFACTION ANALYSIS REPORT

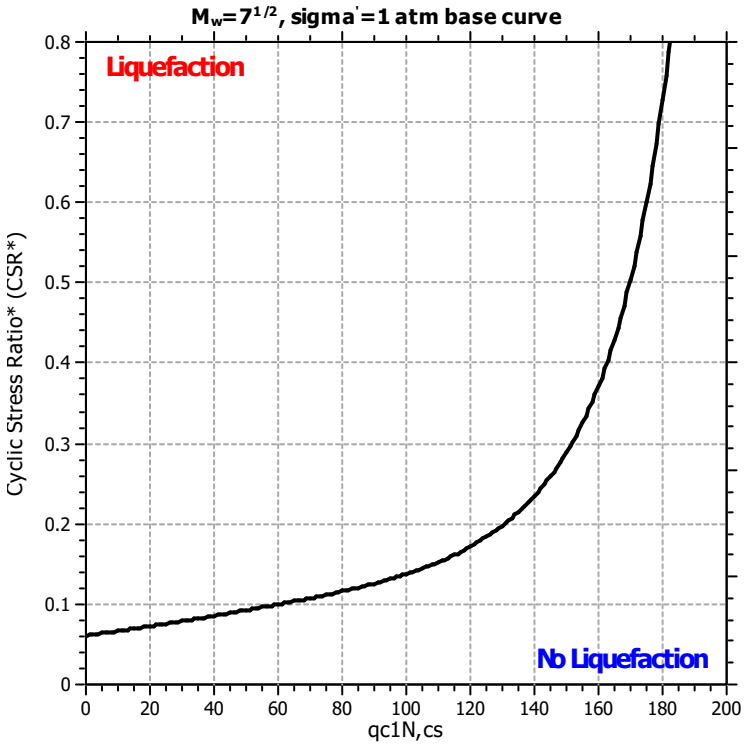
Project title : **Location :**

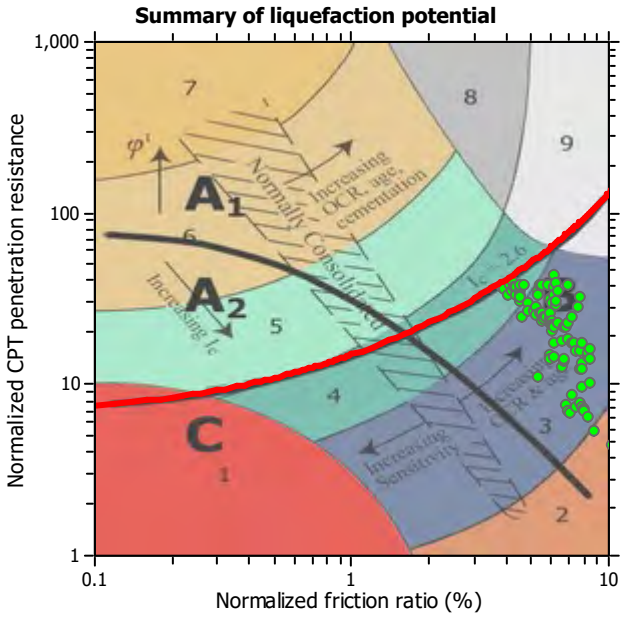
CPT file : SP248

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

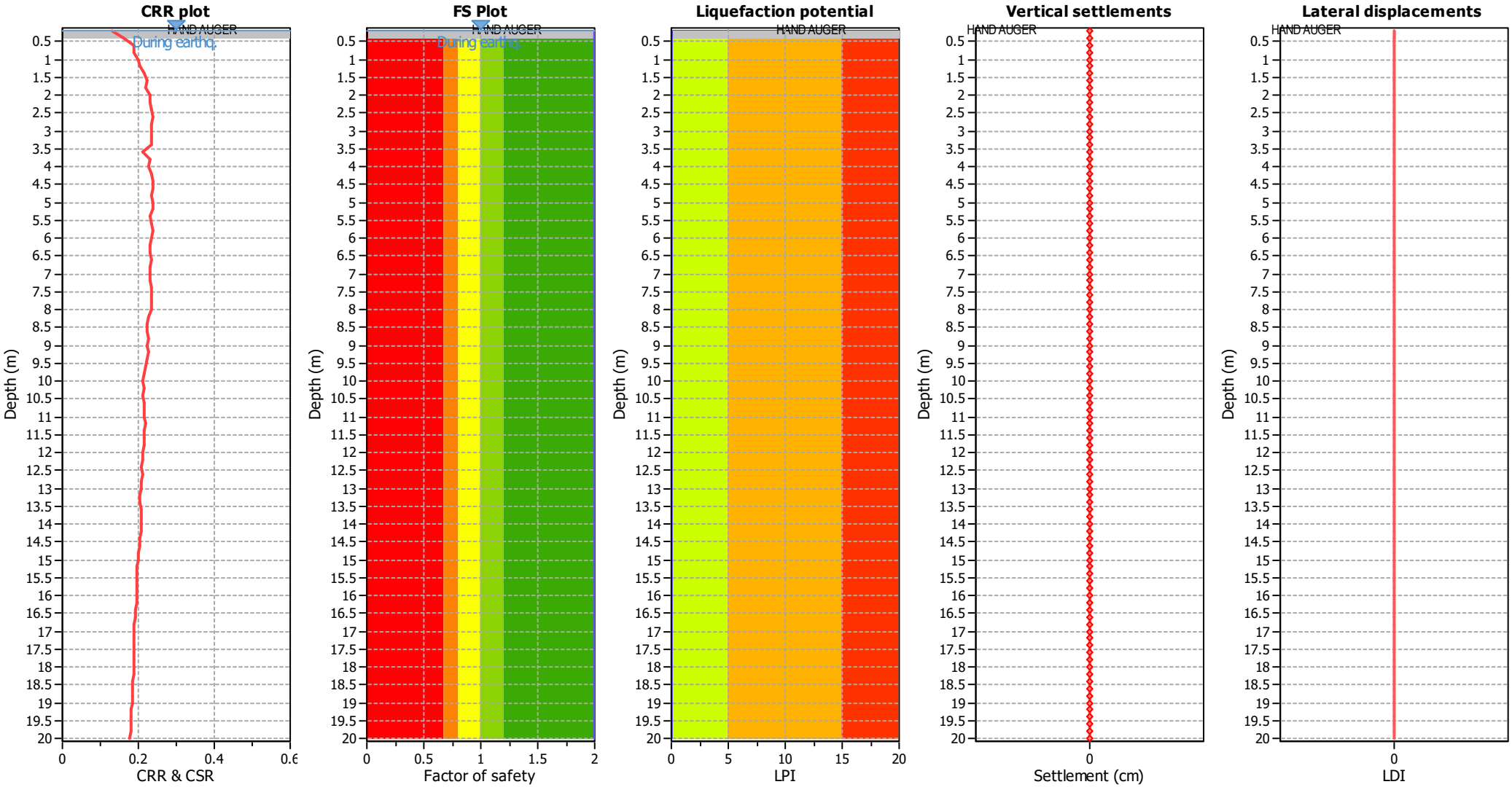






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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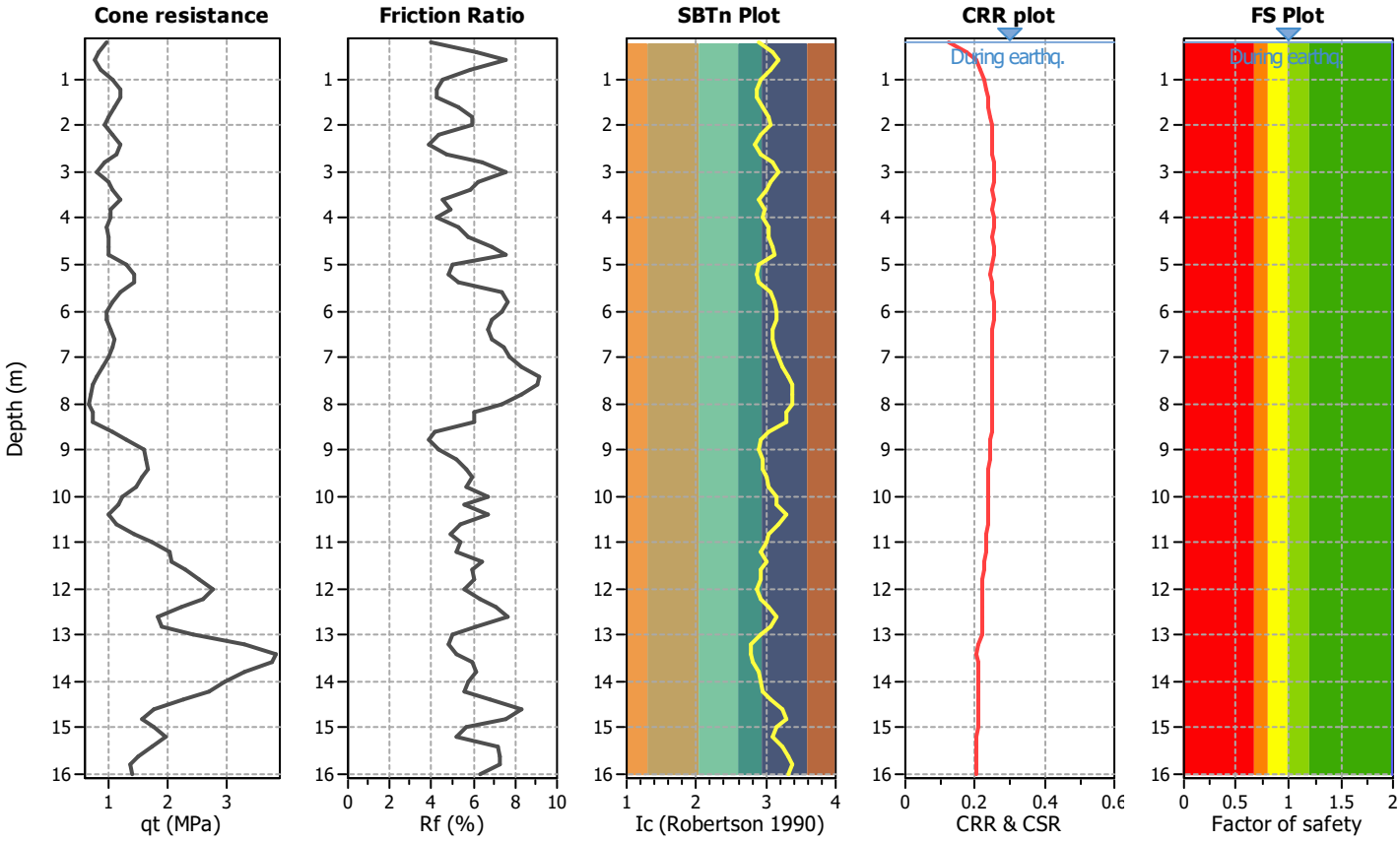
LIQUEFACTION ANALYSIS REPORT

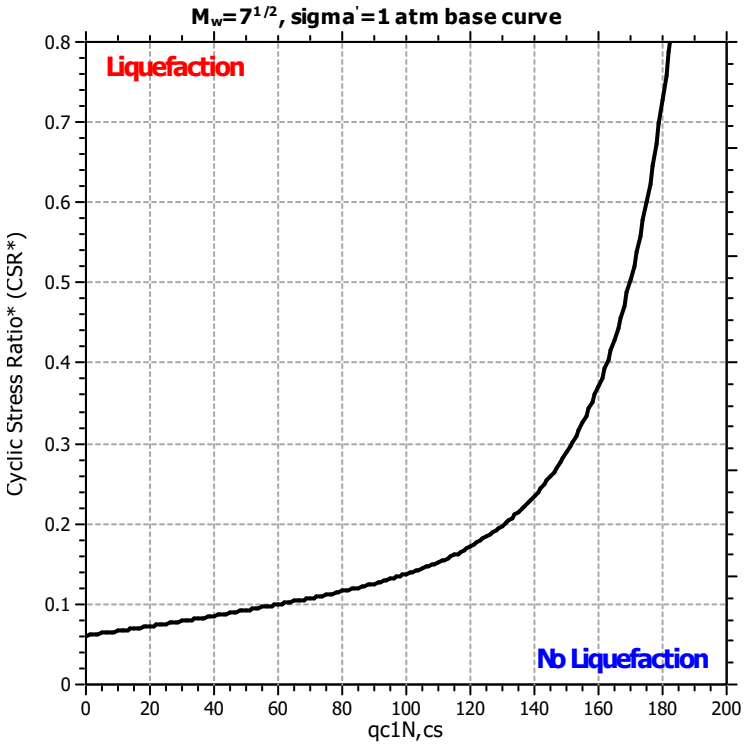
Project title : **Location :**

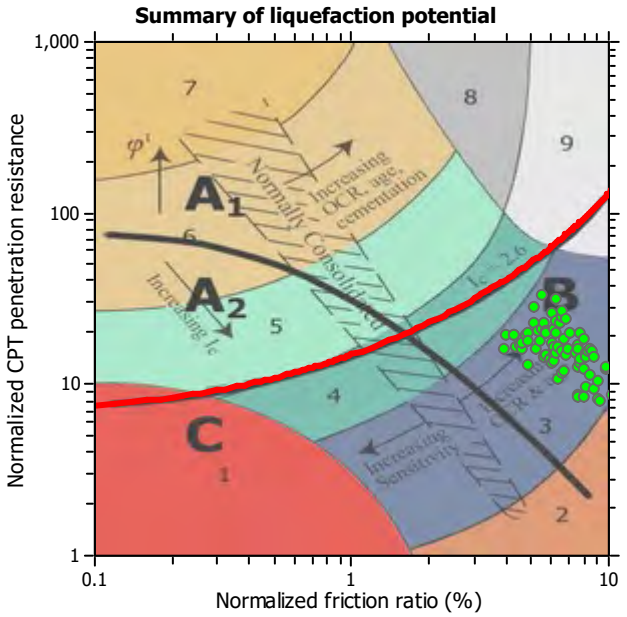
CPT file : SP249

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

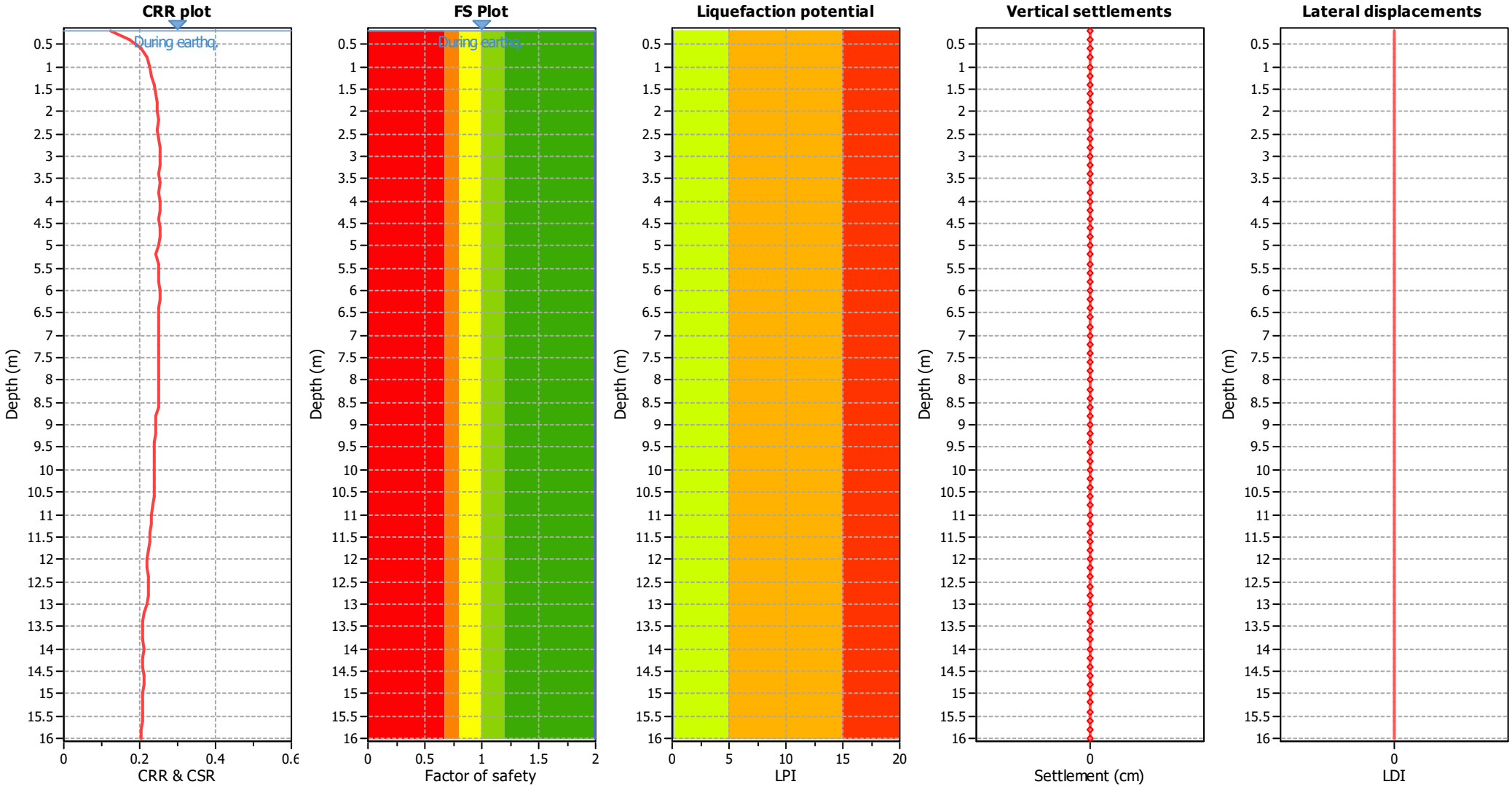






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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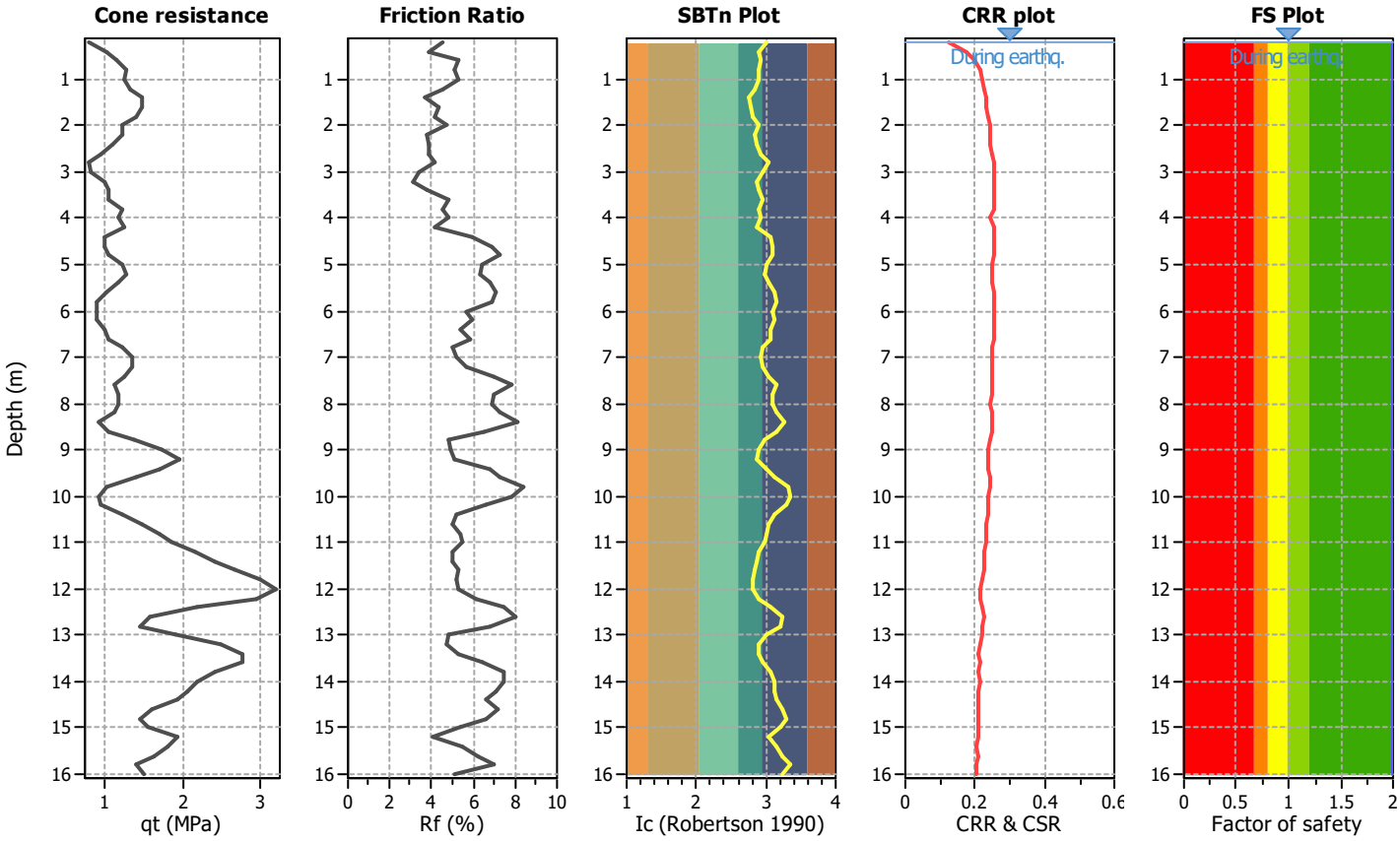
LIQUEFACTION ANALYSIS REPORT

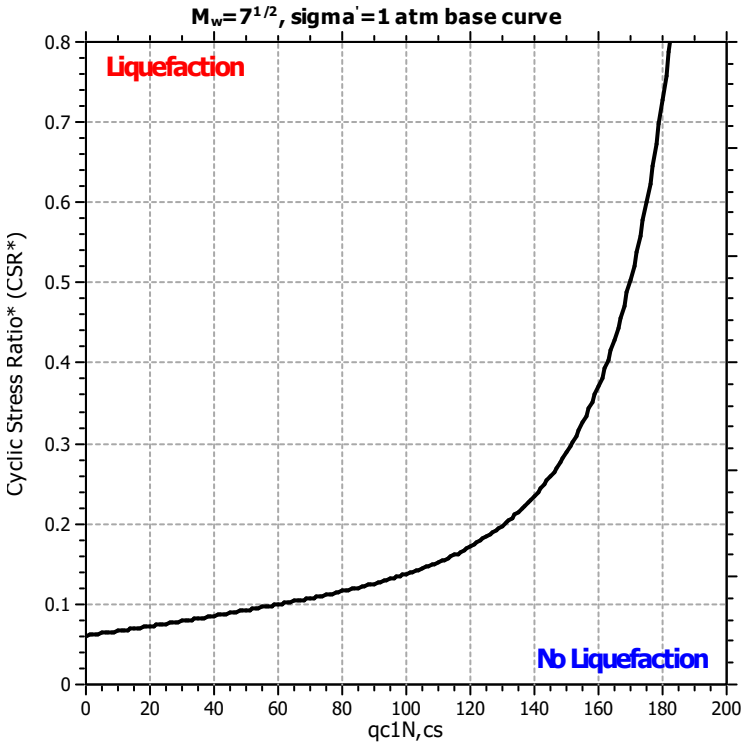
Project title : **Location :**

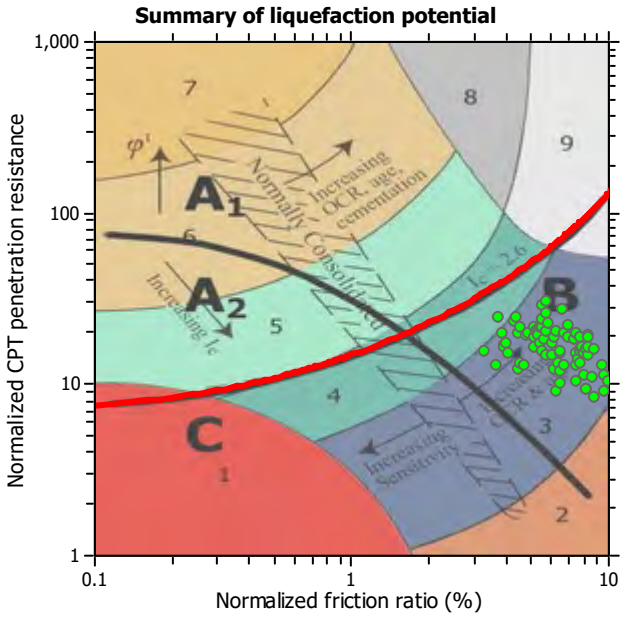
CPT file : SP250

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

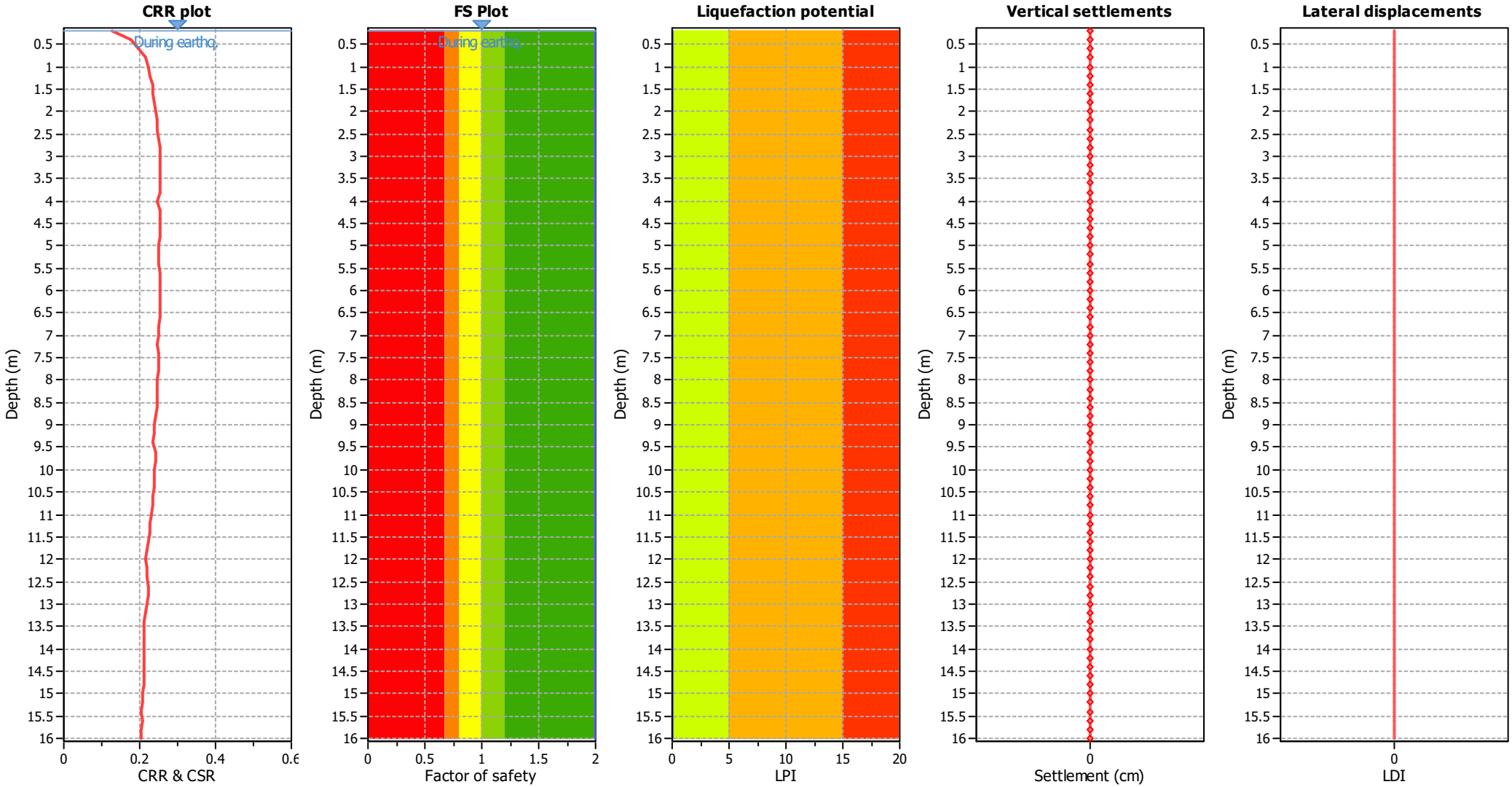






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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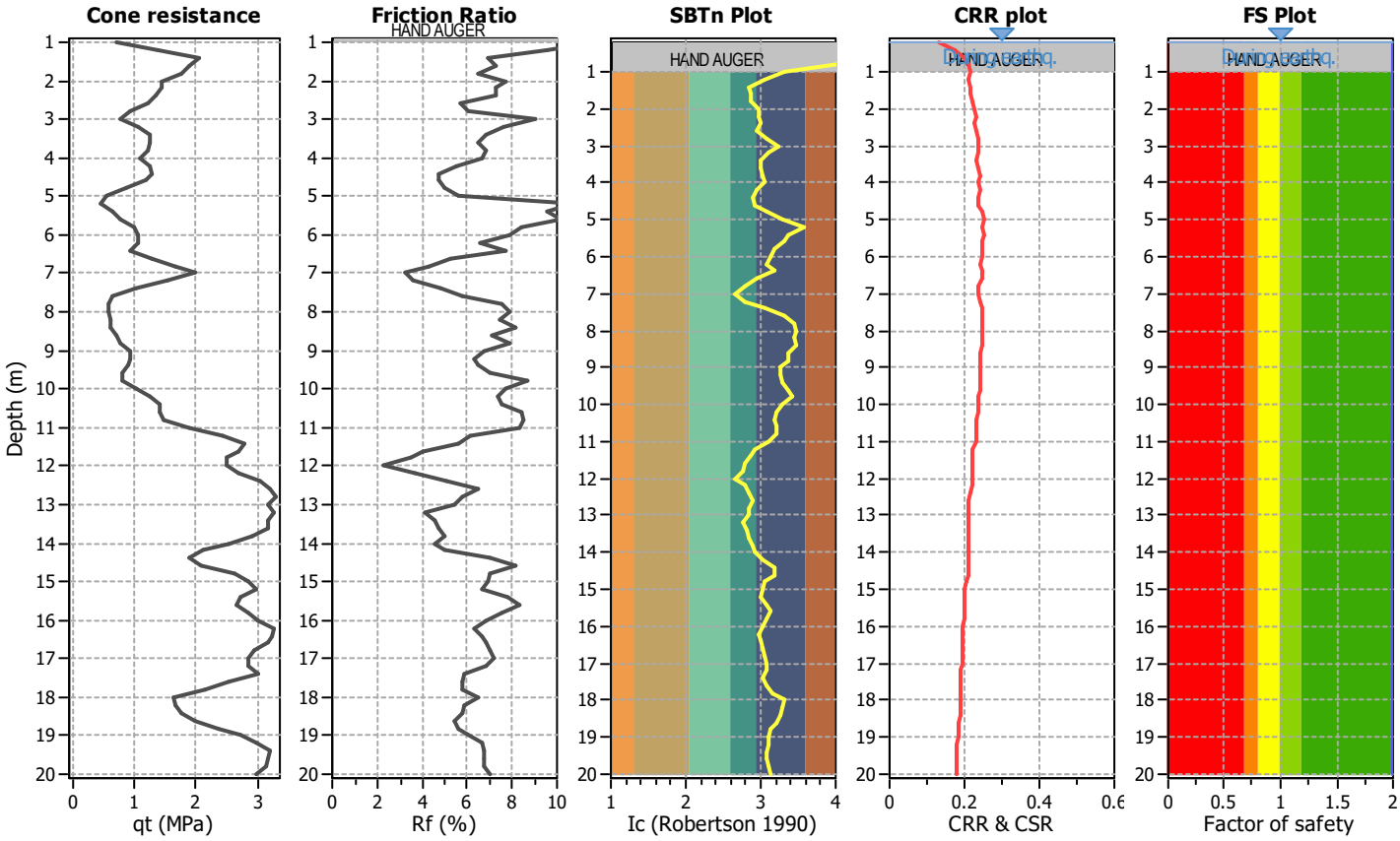
LIQUEFACTION ANALYSIS REPORT

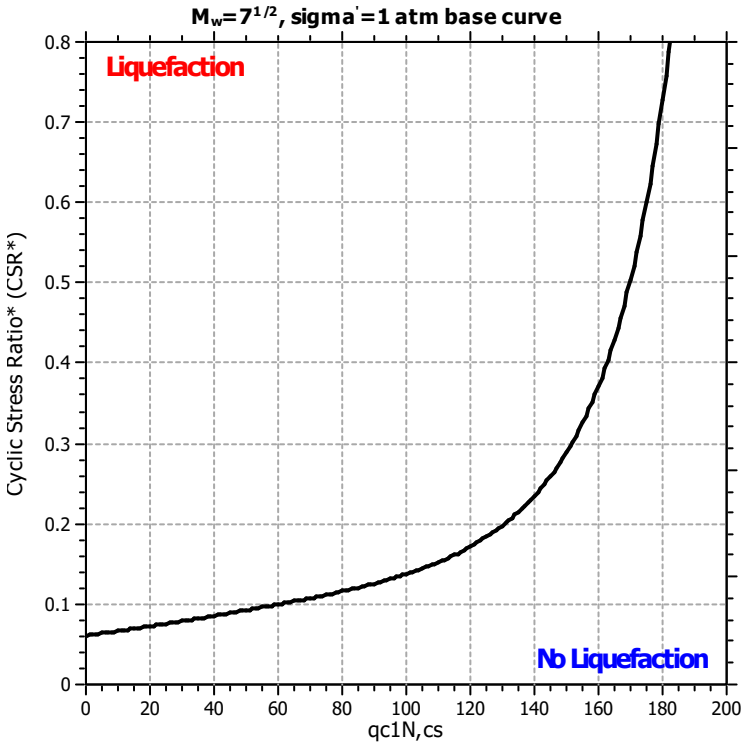
Project title : **Location :**

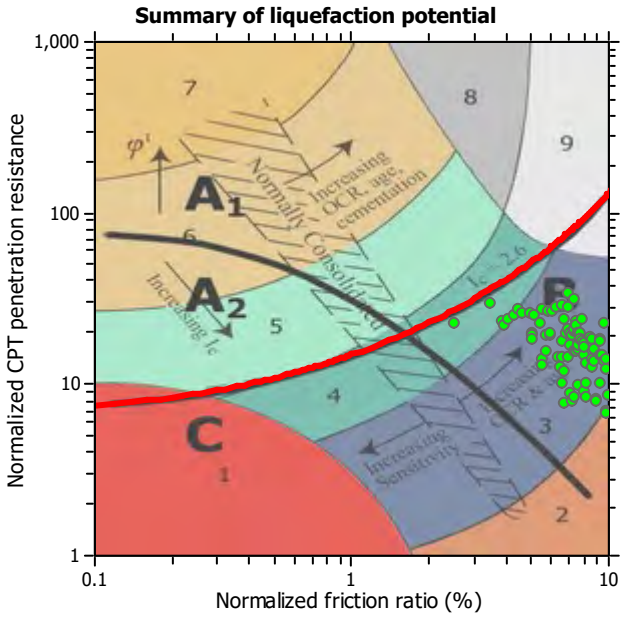
CPT file : SP252

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

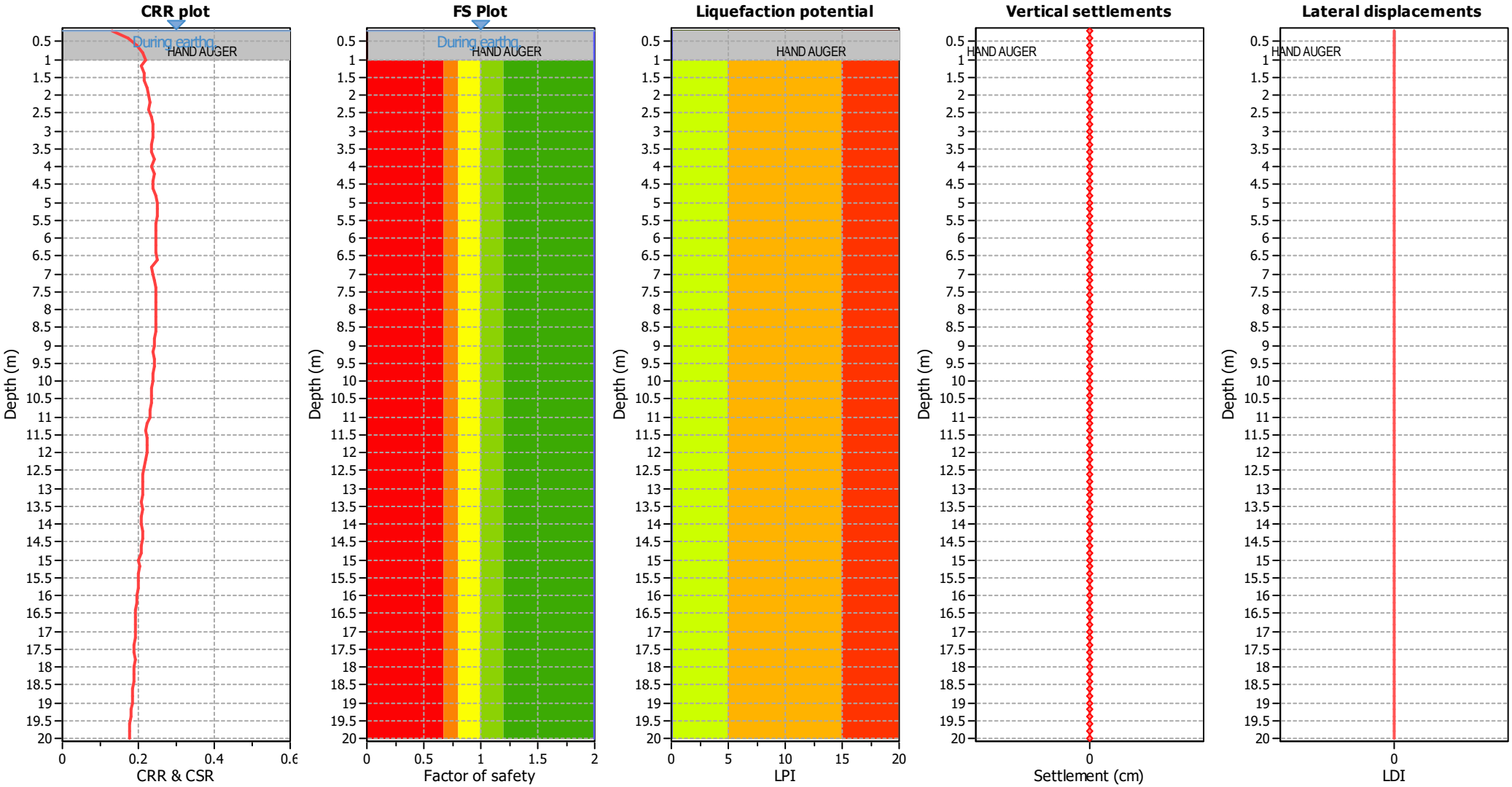






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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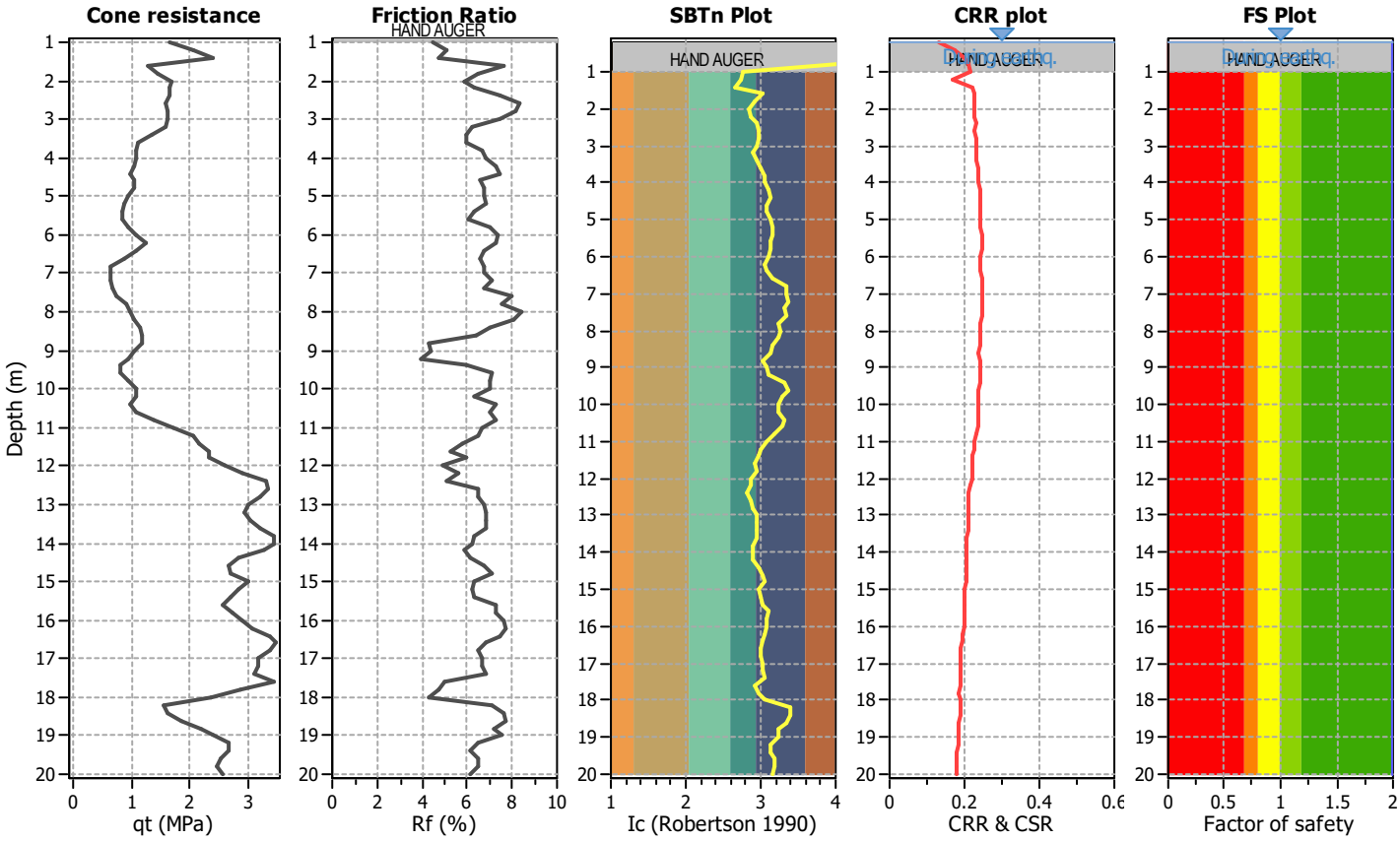
LIQUEFACTION ANALYSIS REPORT

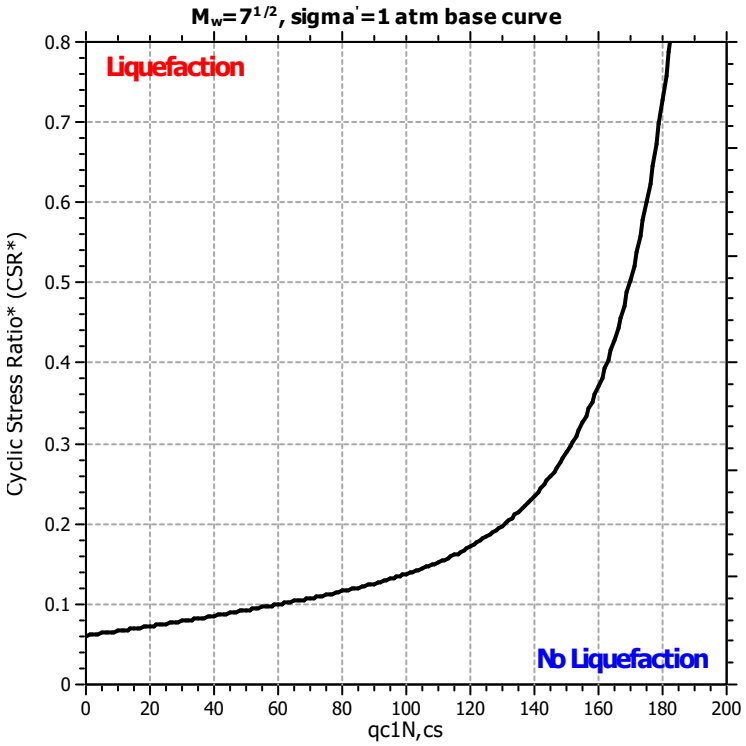
Project title : **Location :**

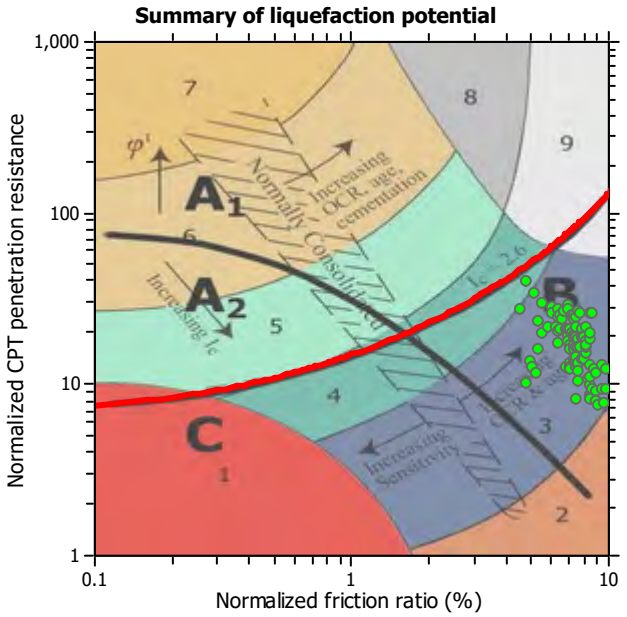
CPT file : SP253

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

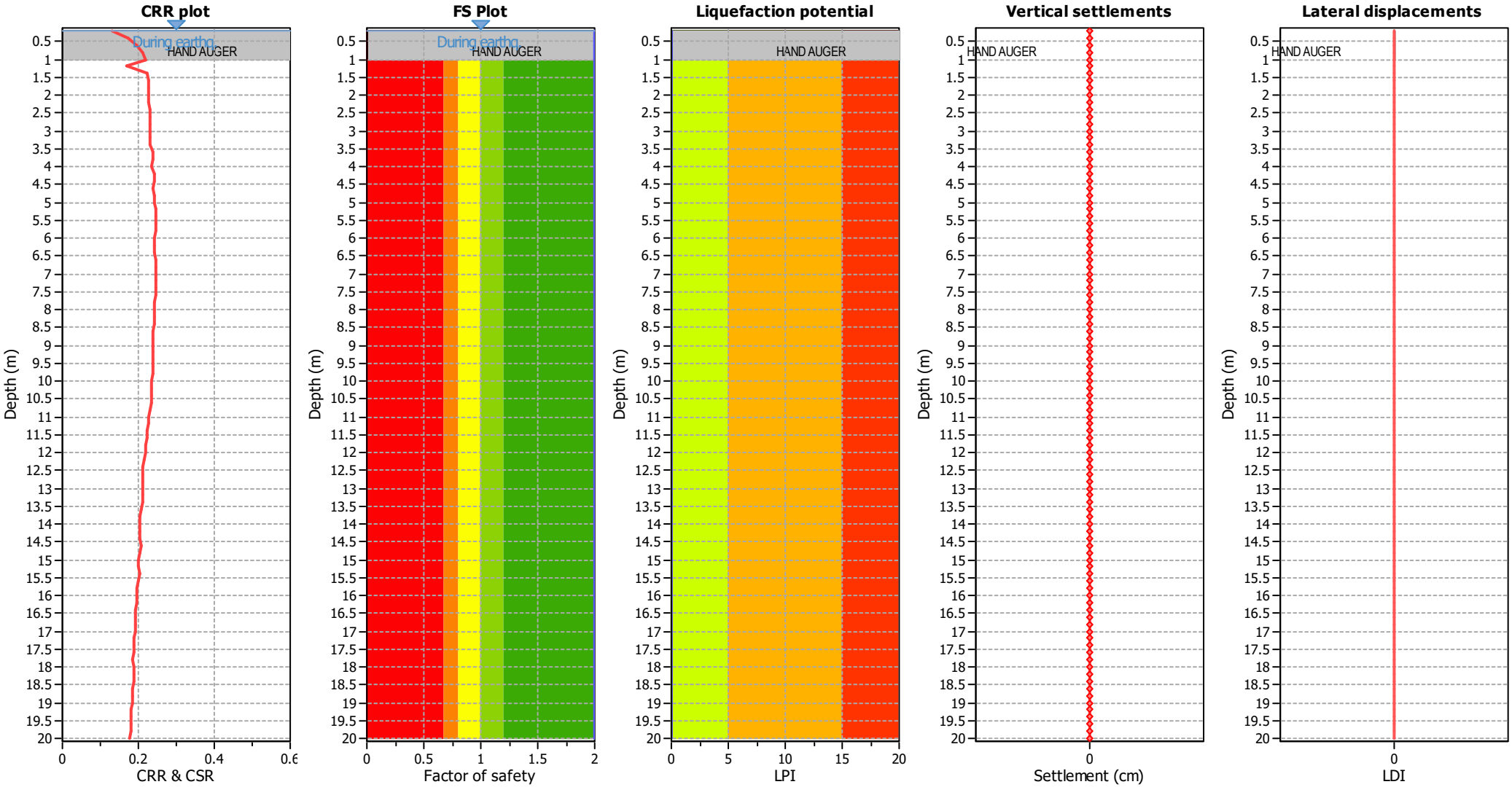






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.00	0.00	0.80	2.00	0.00	0.00	0.00	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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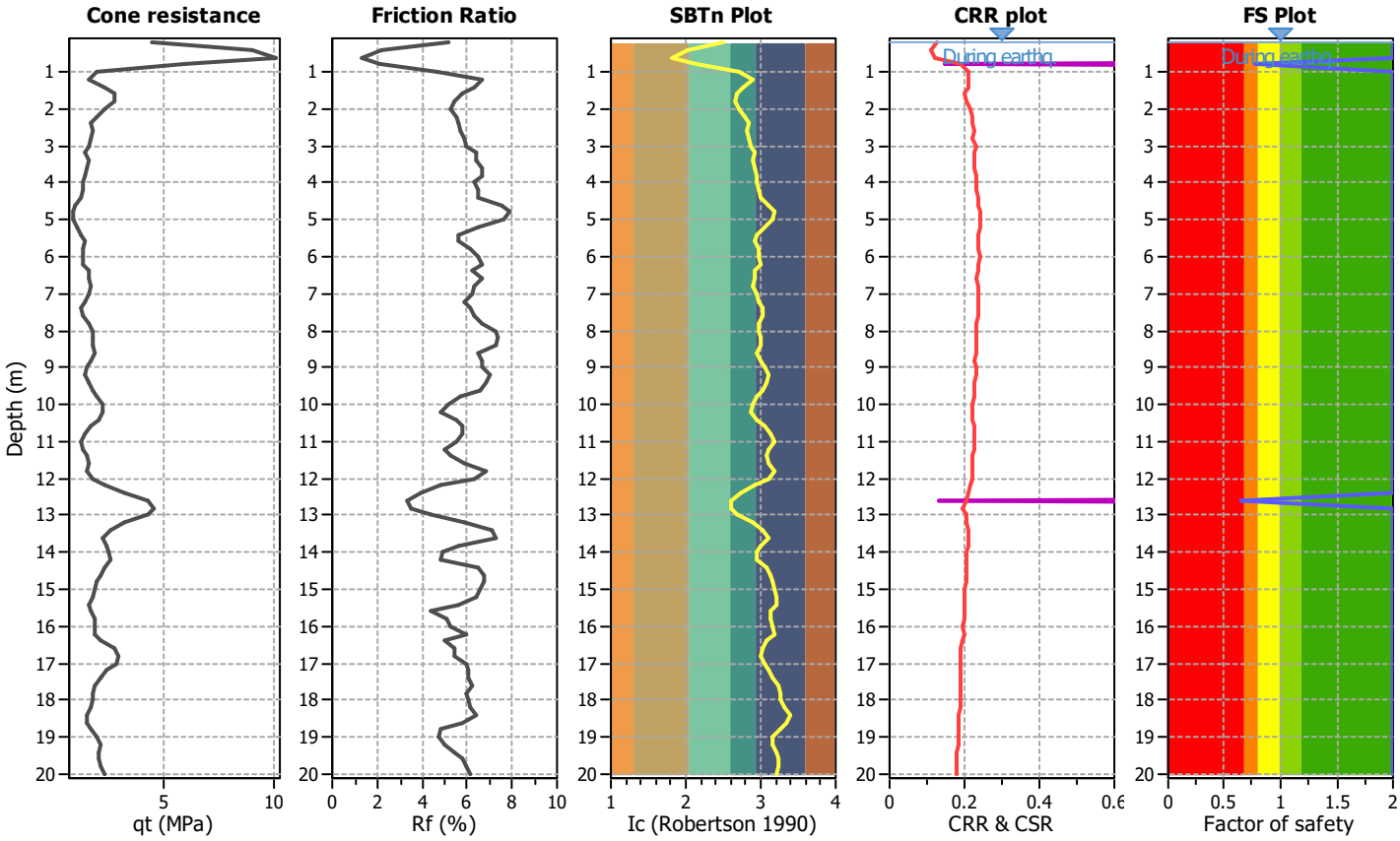
LIQUEFACTION ANALYSIS REPORT

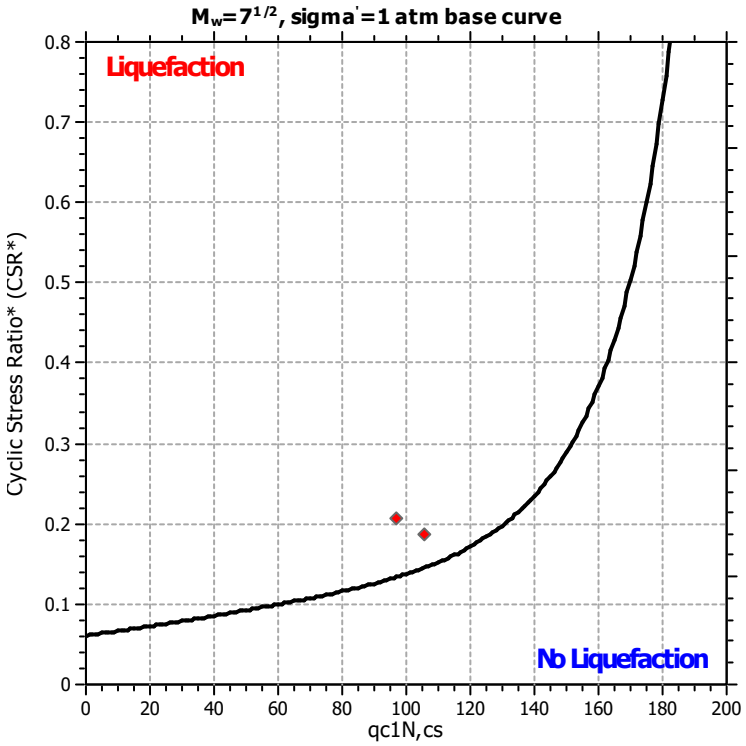
Project title : **Location :**

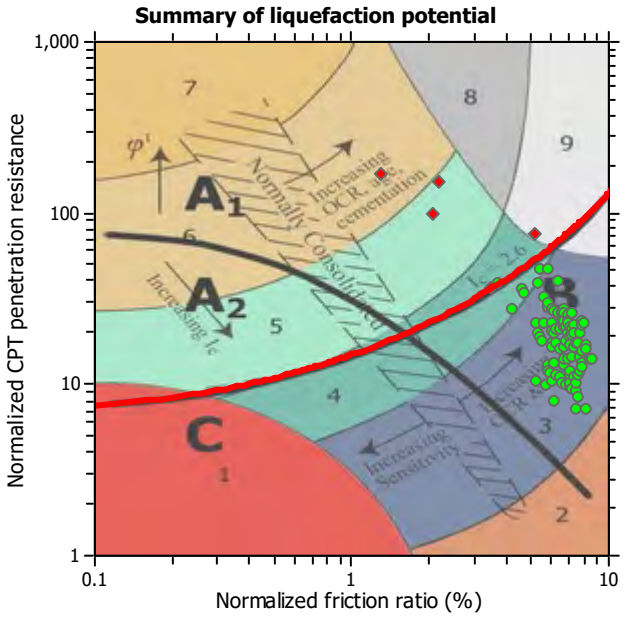
CPT file : SP255

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

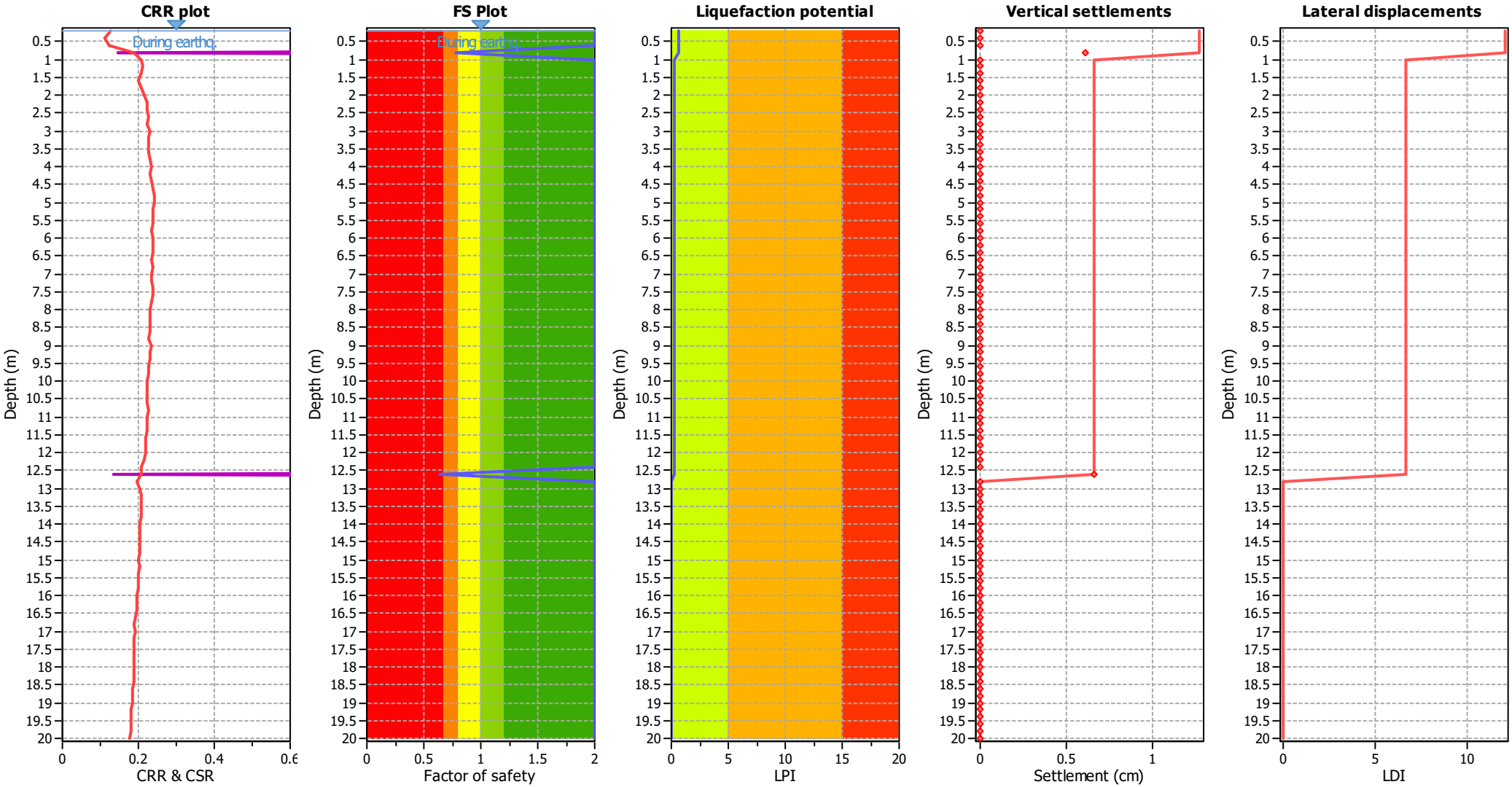






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	0.78	0.22	1.41	0.20	0.43
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	0.65	0.35	0.74	0.20	0.26	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.69

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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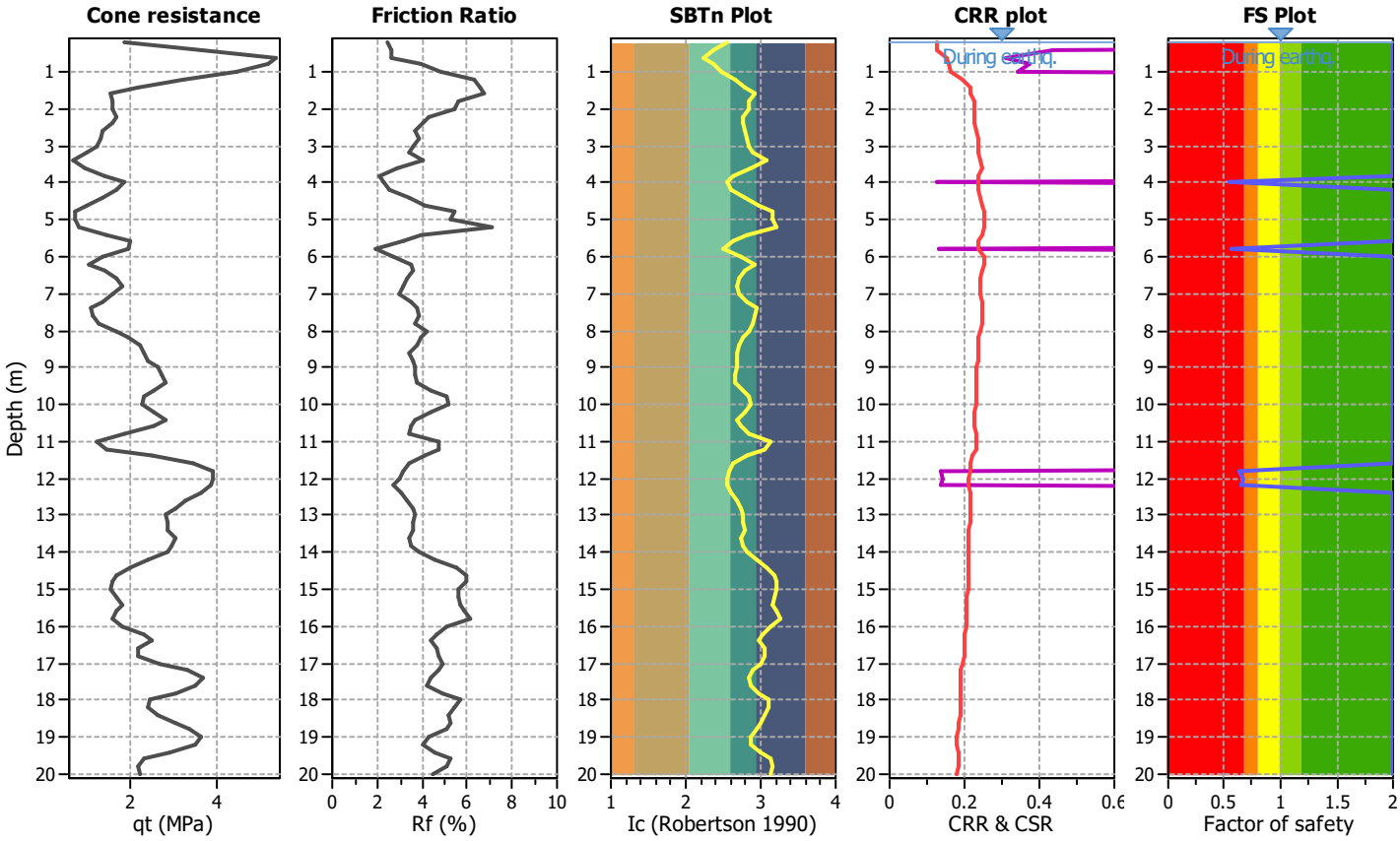
LIQUEFACTION ANALYSIS REPORT

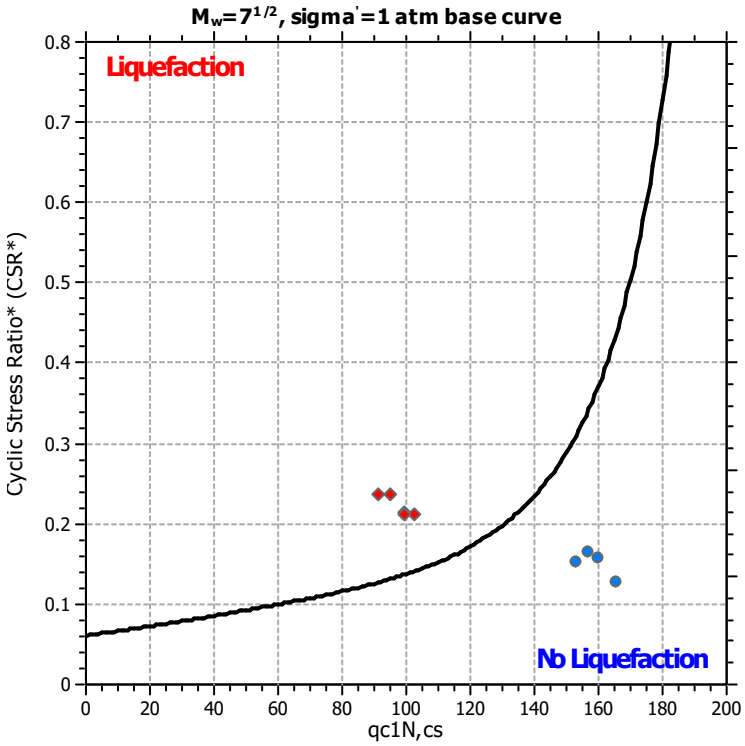
Project title : **Location :**

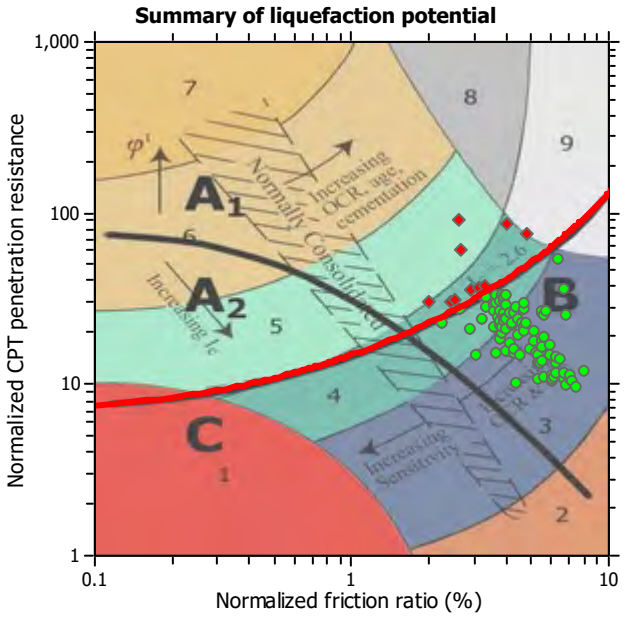
CPT file : SP259

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

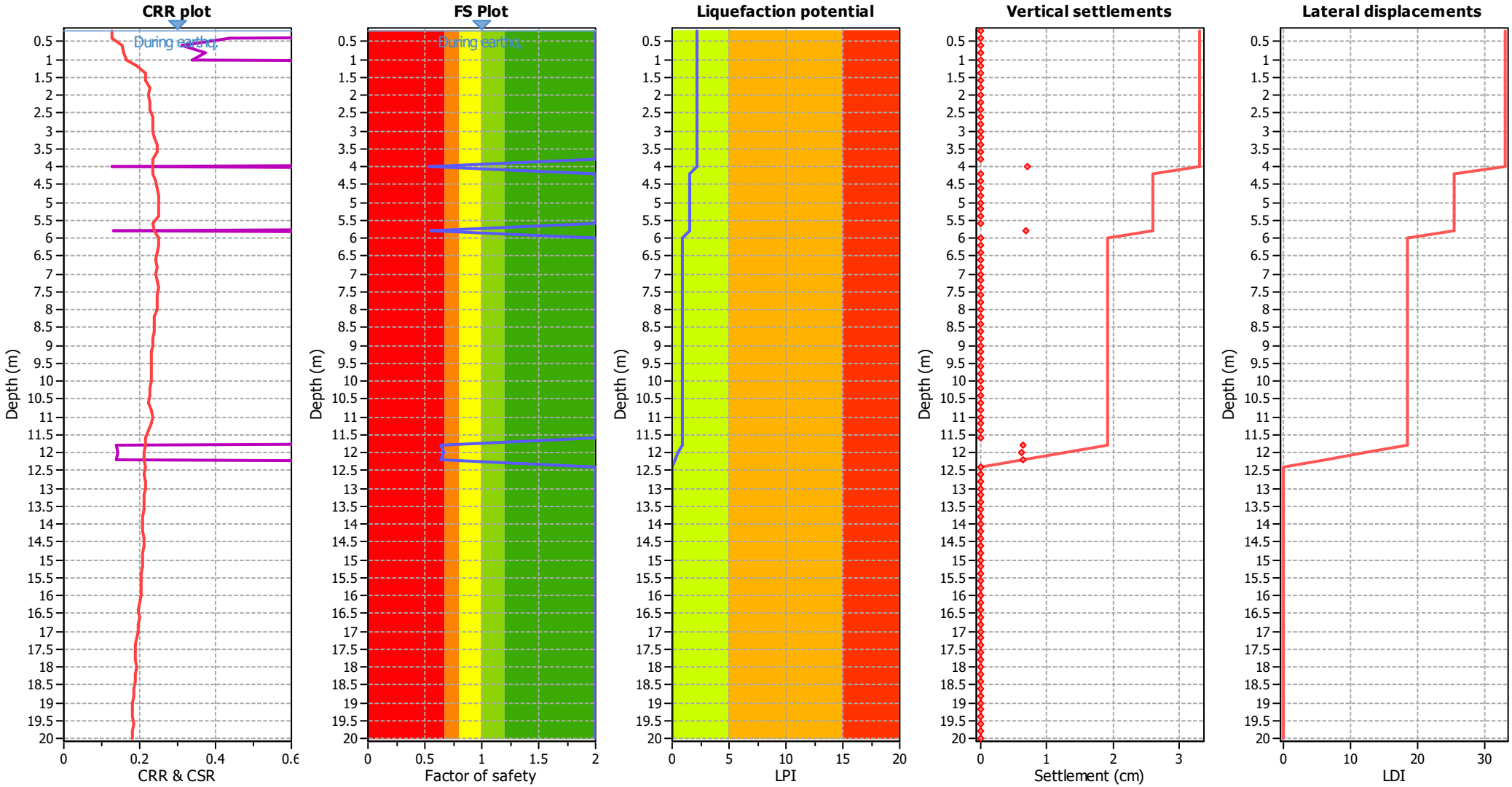






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.54	0.00	0.00	0.20	0.74
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	0.56	0.00	0.00	0.20	0.63	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	0.63	0.00	0.00	0.20	0.30	12.00	0.66	0.00	0.00	0.20	0.27
12.20	0.64	0.00	0.00	0.20	0.28	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.22

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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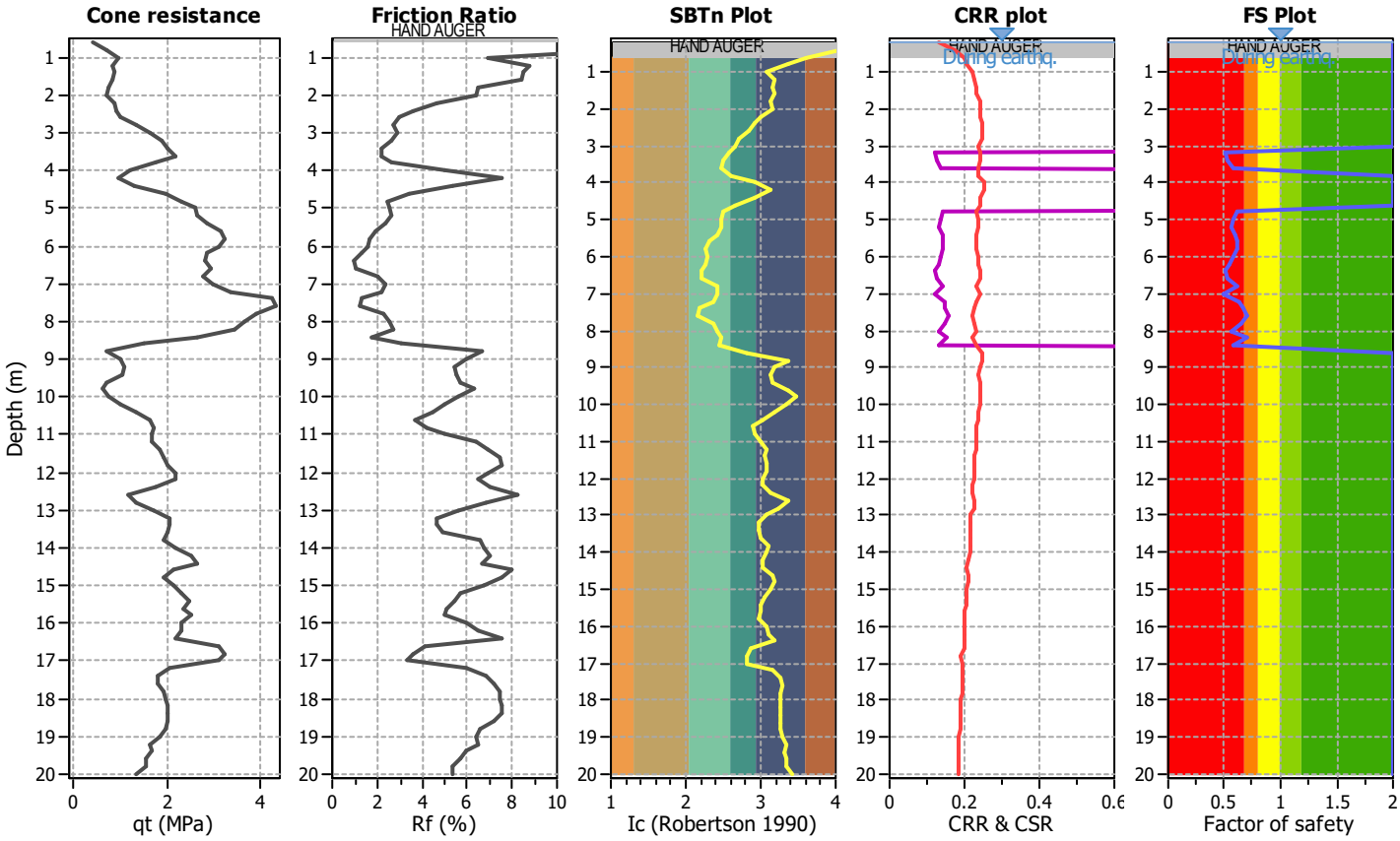
LIQUEFACTION ANALYSIS REPORT

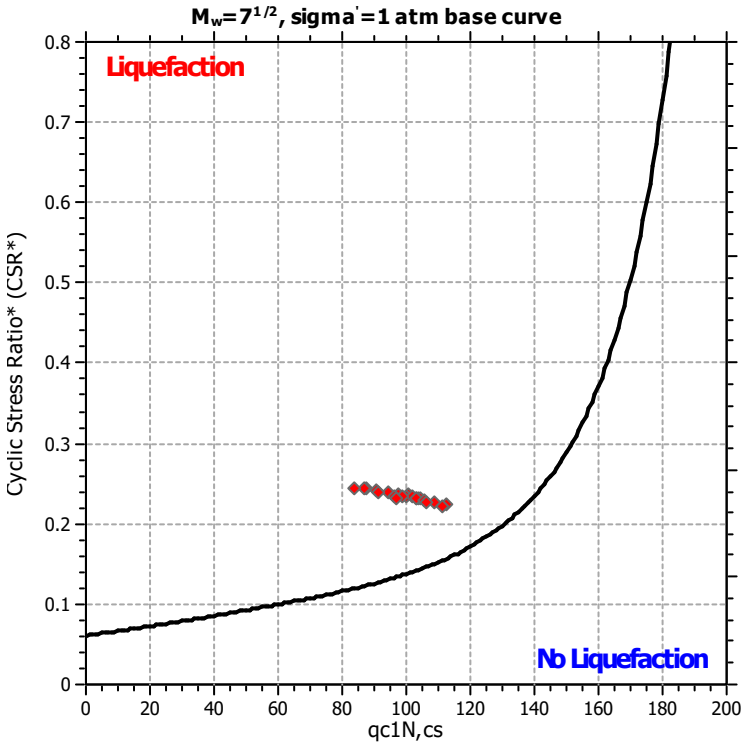
Project title : **Location :**

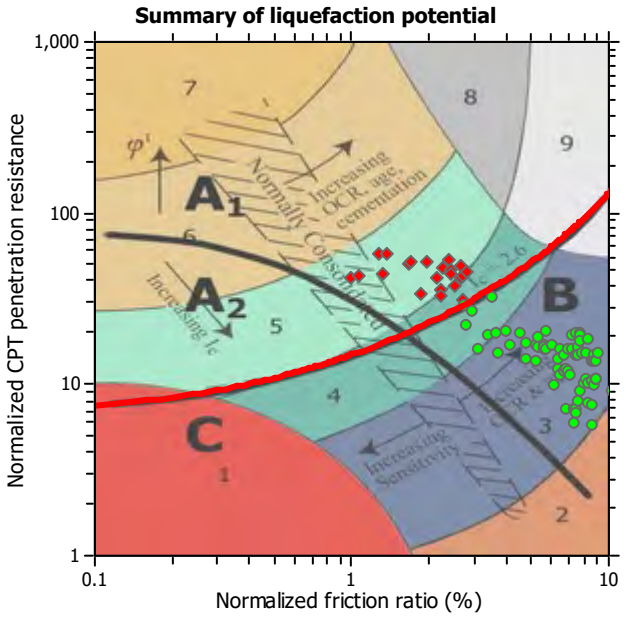
CPT file : SP264

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

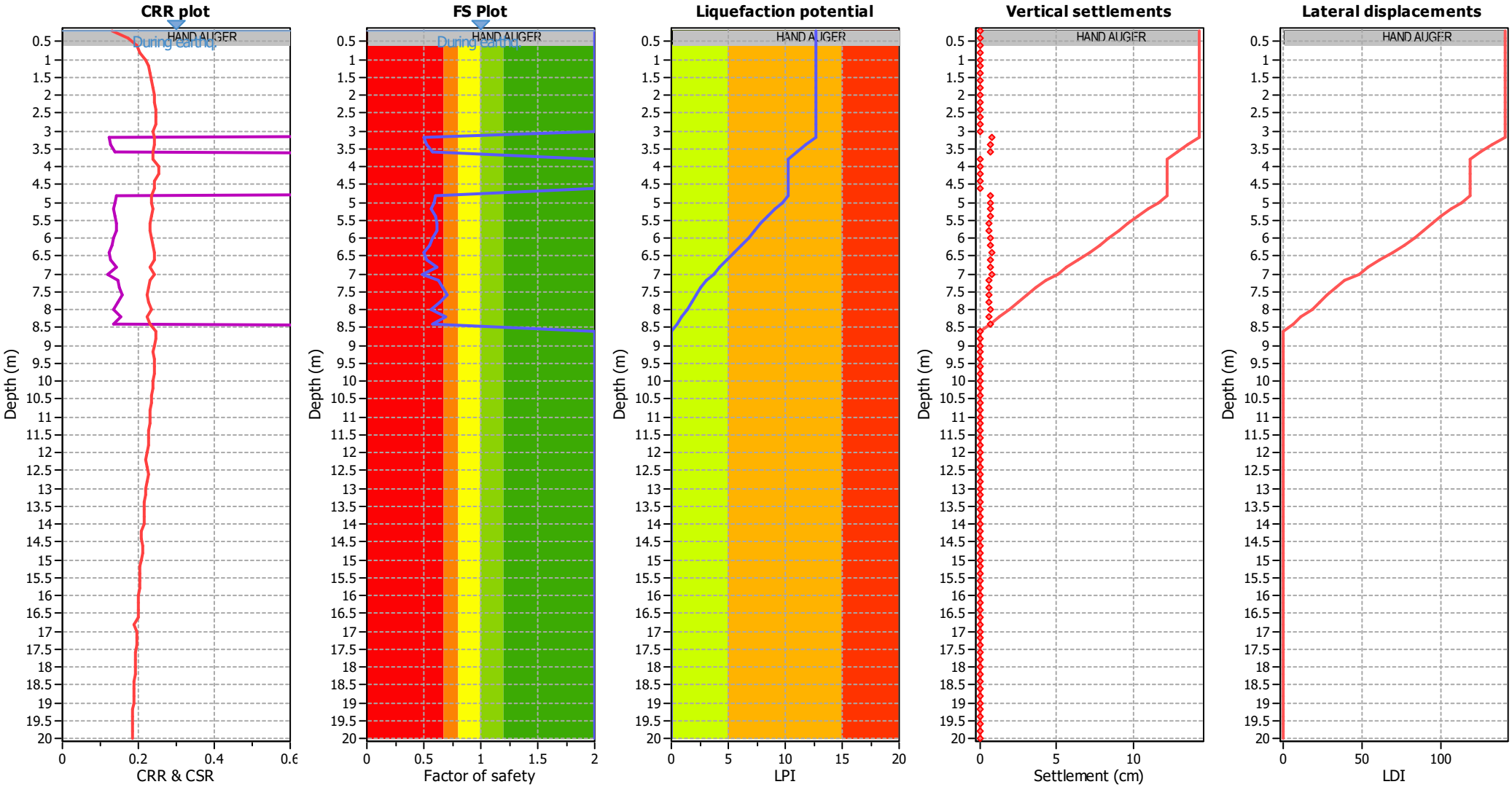






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.00	0.00	0.40	2.00	0.00	0.00	0.00	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	0.50	0.50	0.48	0.20	0.83
3.40	0.52	0.48	0.50	0.20	0.80	3.60	0.58	0.42	0.60	0.20	0.68
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	0.61	0.39	0.65	0.20	0.60
5.00	0.58	0.42	0.60	0.20	0.62	5.20	0.57	0.43	0.57	0.20	0.64
5.40	0.60	0.40	0.63	0.20	0.58	5.60	0.61	0.39	0.66	0.20	0.56
5.80	0.62	0.38	0.67	0.20	0.54	6.00	0.58	0.42	0.59	0.20	0.59
6.20	0.55	0.45	0.54	0.20	0.62	6.40	0.50	0.50	0.48	0.20	0.68
6.60	0.53	0.47	0.51	0.20	0.63	6.80	0.61	0.39	0.65	0.20	0.51
7.00	0.49	0.51	0.47	0.20	0.66	7.20	0.63	0.37	0.70	0.20	0.47
7.40	0.66	0.34	0.78	0.20	0.43	7.60	0.70	0.30	0.91	0.20	0.37
7.80	0.64	0.36	0.72	0.20	0.44	8.00	0.57	0.43	0.58	0.20	0.52
8.20	0.69	0.31	0.89	0.20	0.36	8.40	0.58	0.42	0.59	0.20	0.49
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 12.63

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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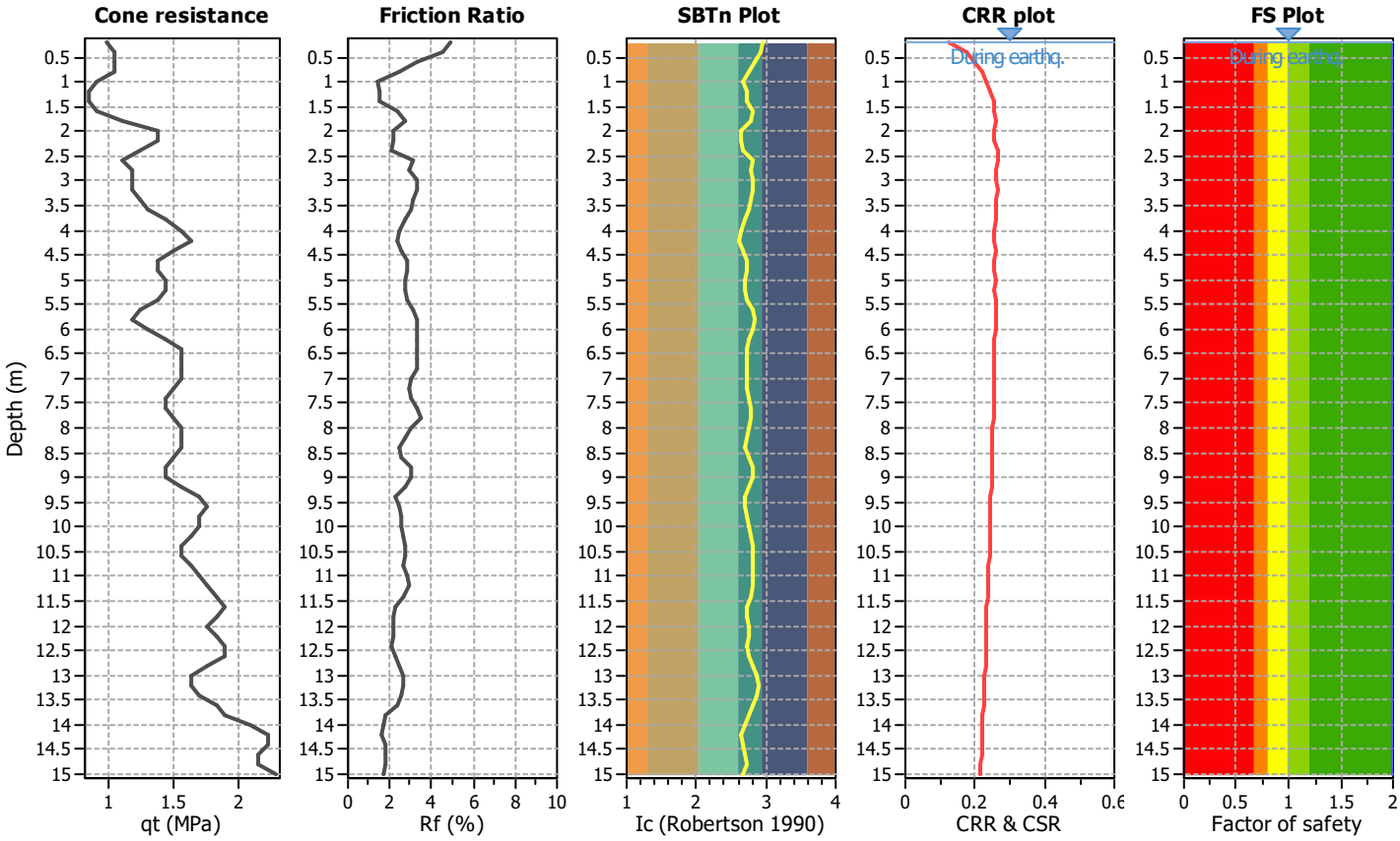
LIQUEFACTION ANALYSIS REPORT

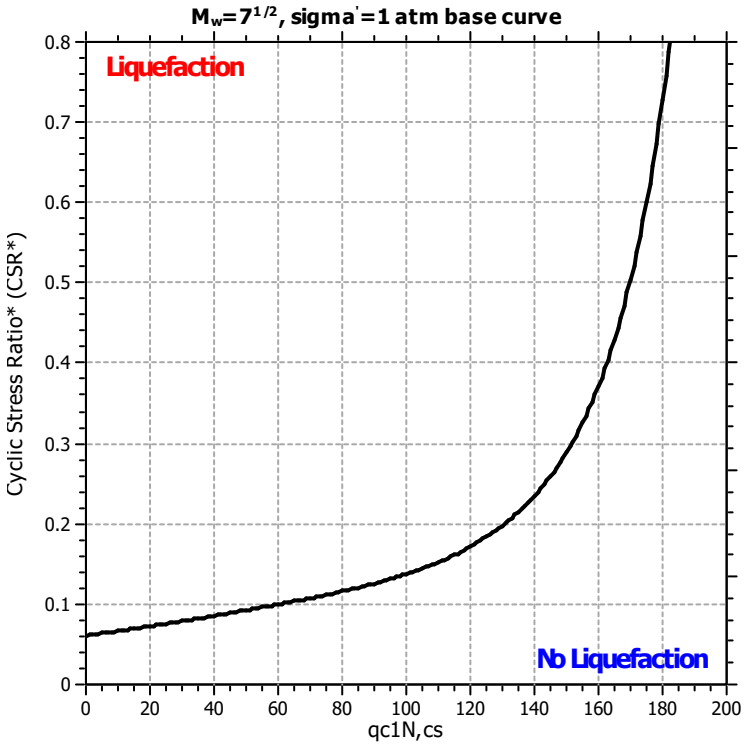
Project title : **Location :**

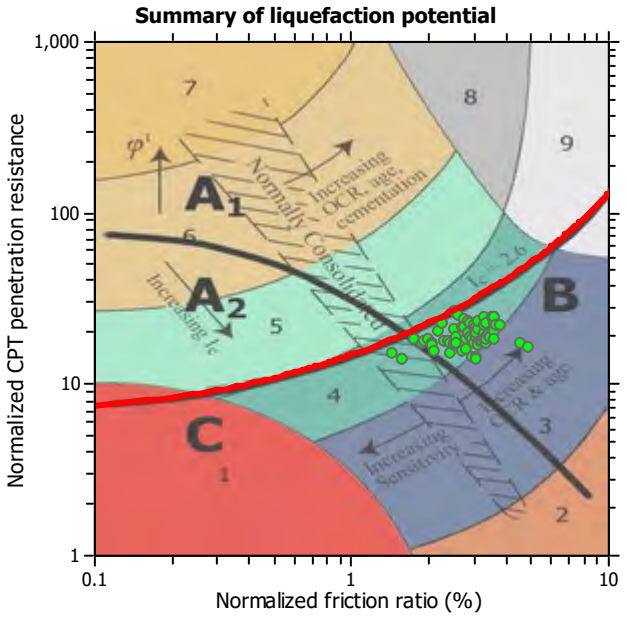
CPT file : SP266

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

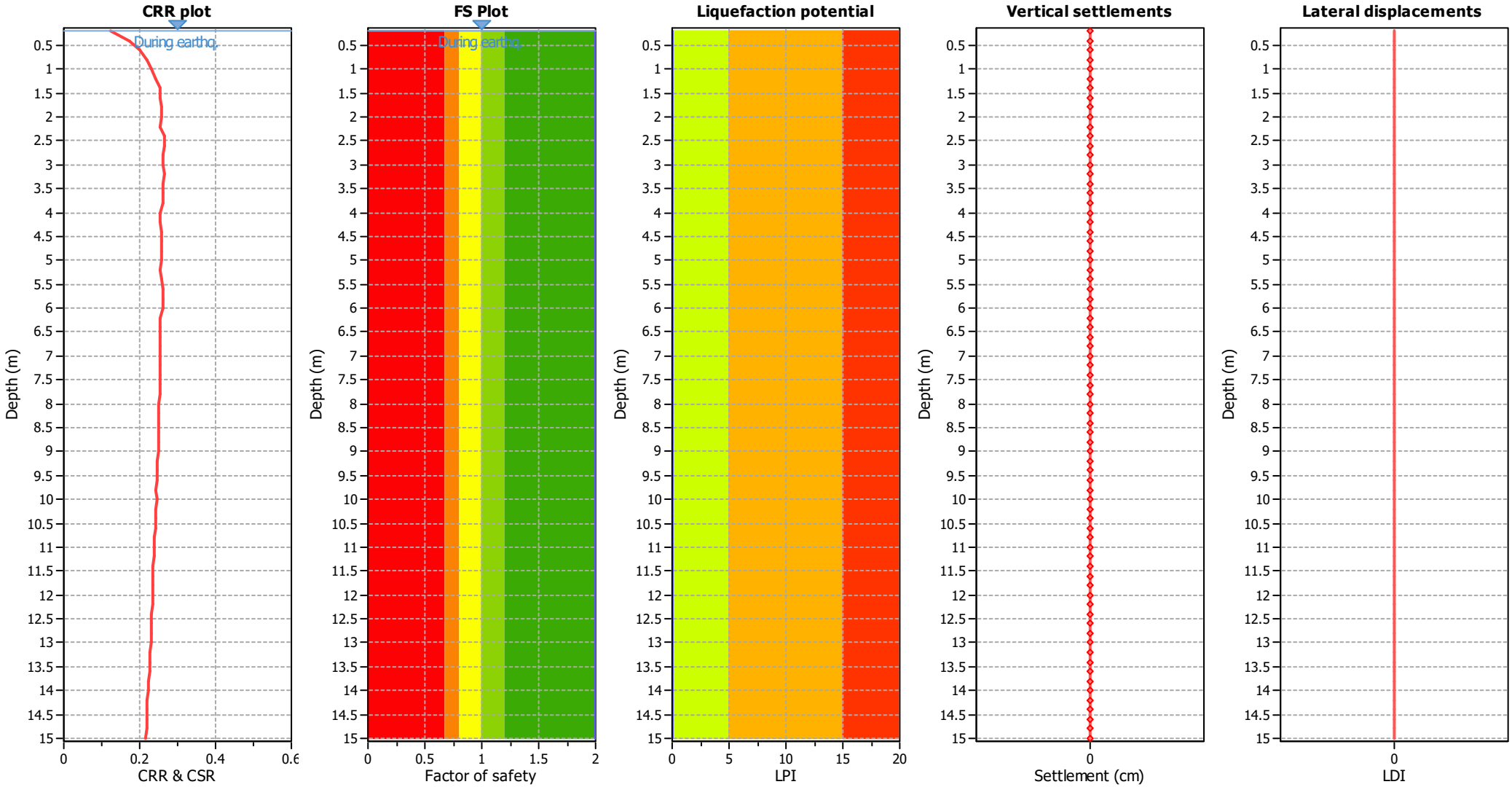






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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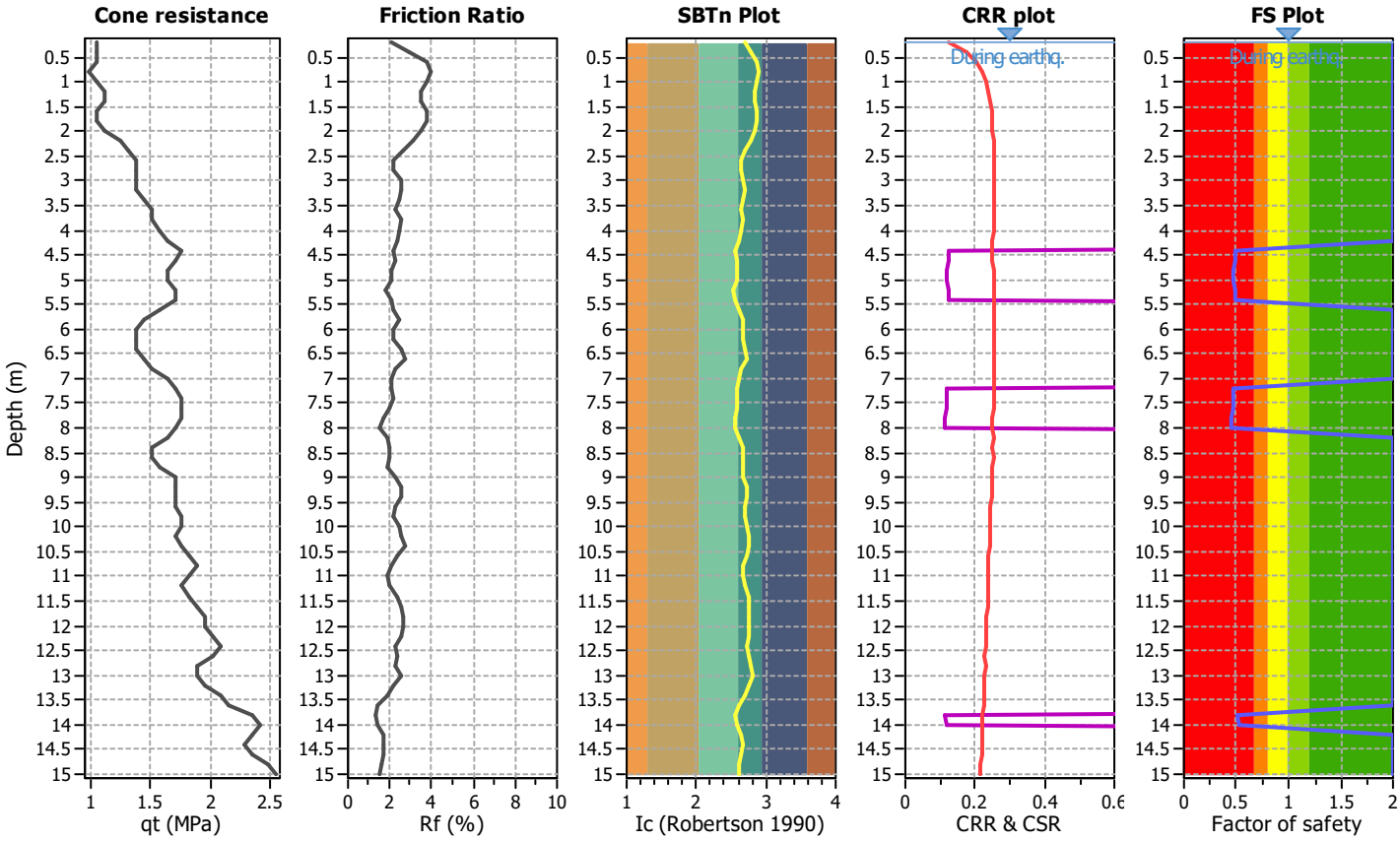
LIQUEFACTION ANALYSIS REPORT

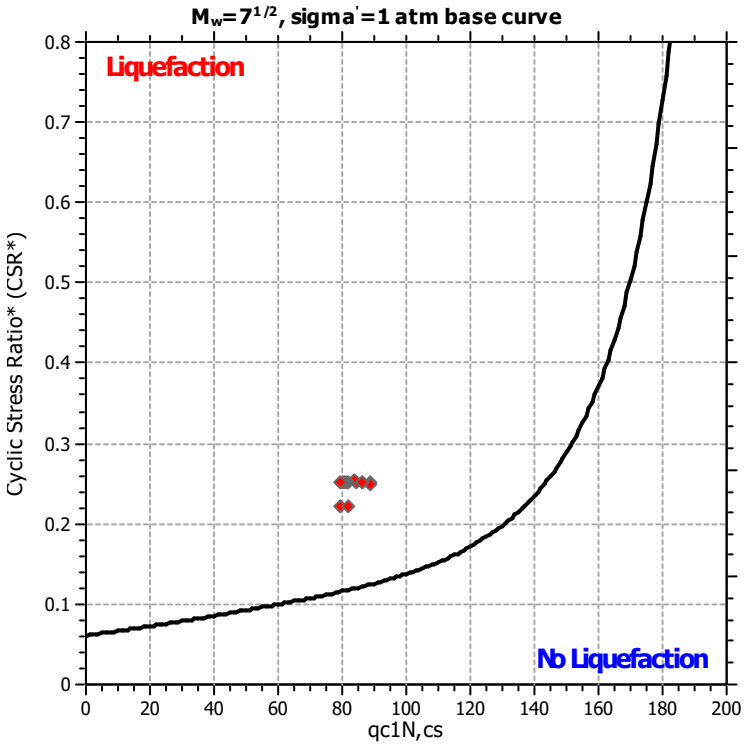
Project title : **Location :**

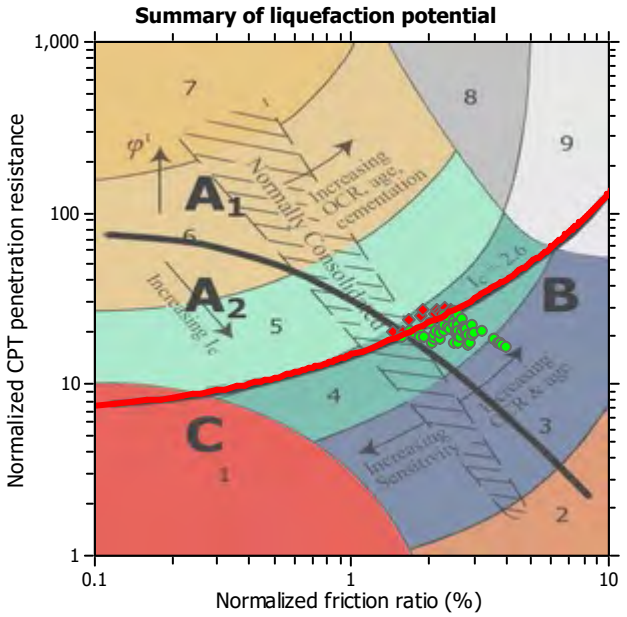
CPT file : SP267

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

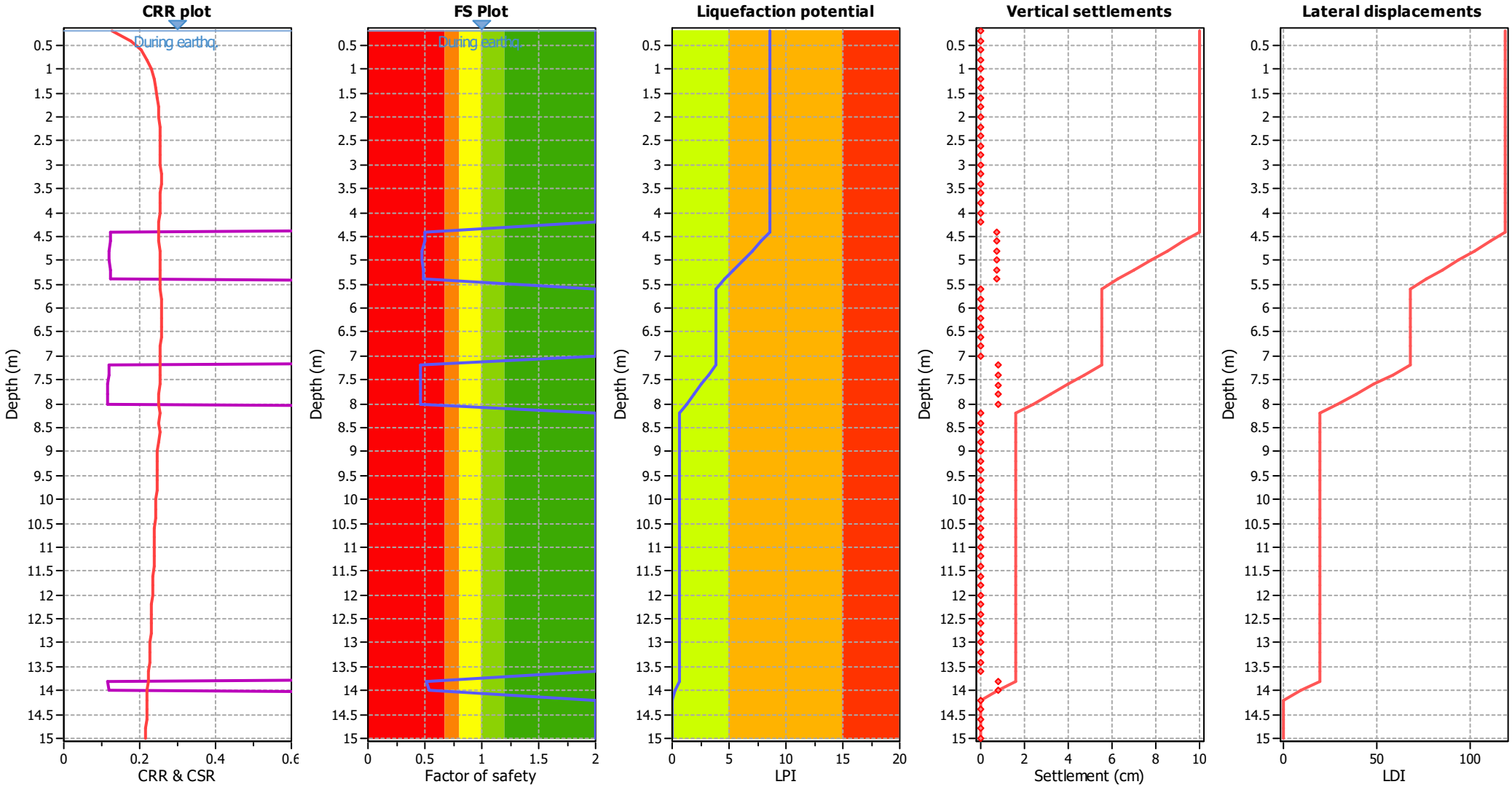






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	0.49	0.51	0.47	0.20	0.79
4.60	0.50	0.50	0.48	0.20	0.77	4.80	0.48	0.52	0.45	0.20	0.80
5.00	0.47	0.53	0.45	0.20	0.79	5.20	0.48	0.52	0.46	0.20	0.77
5.40	0.48	0.52	0.46	0.20	0.76	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	0.46	0.54	0.44	0.20	0.68
7.40	0.47	0.53	0.44	0.20	0.67	7.60	0.46	0.54	0.44	0.20	0.67
7.80	0.46	0.54	0.44	0.20	0.66	8.00	0.46	0.54	0.44	0.20	0.65
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	0.52	0.48	0.50	0.20	0.30	14.00	0.53	0.47	0.52	0.20	0.28
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00						

Overall liquefaction potential: 8.58

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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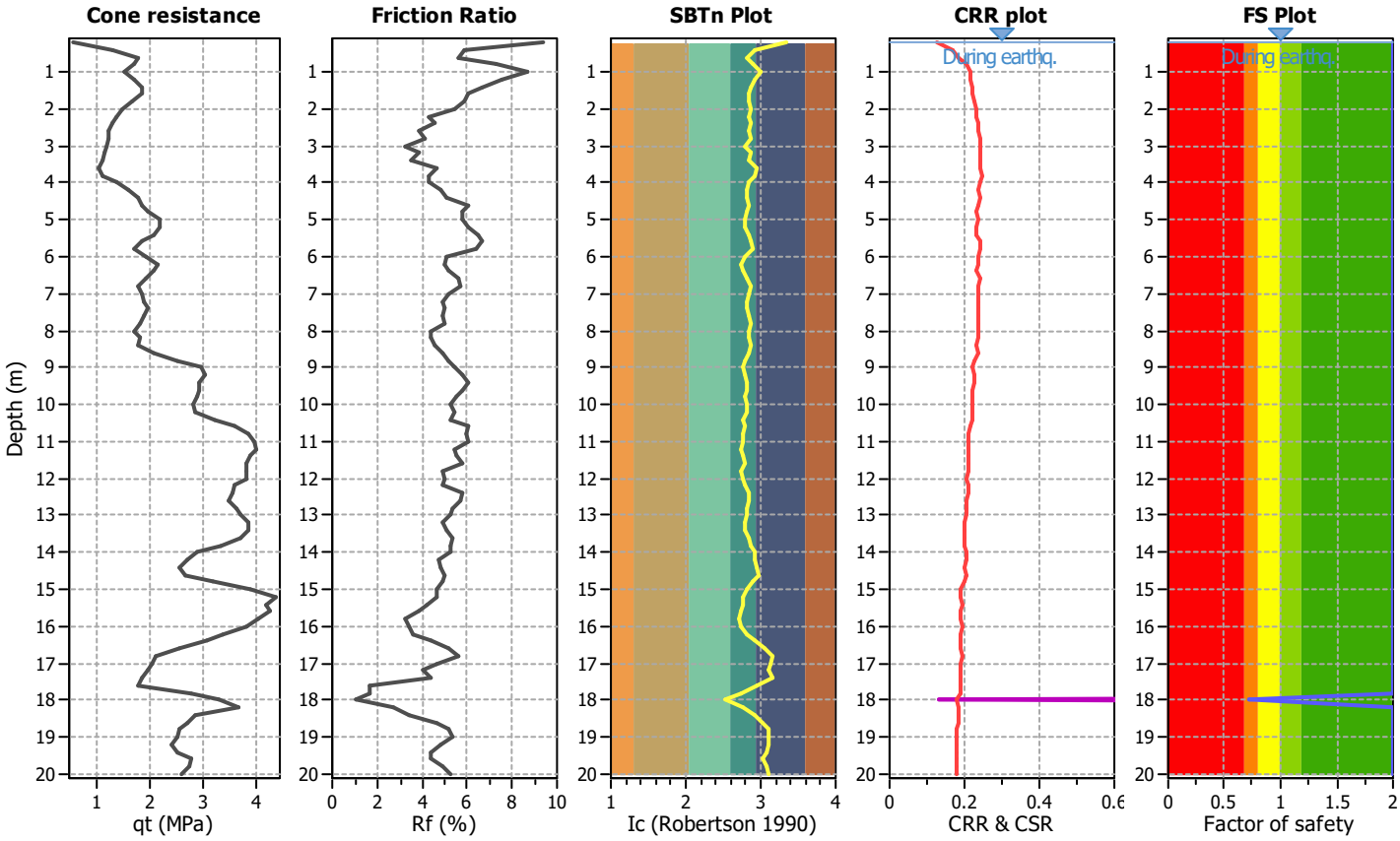
LIQUEFACTION ANALYSIS REPORT

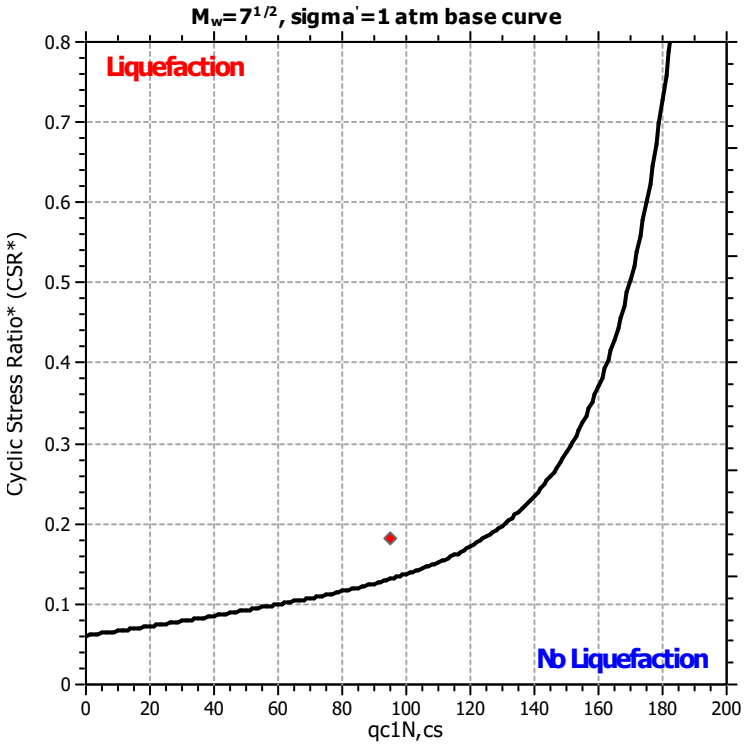
Project title : **Location :**

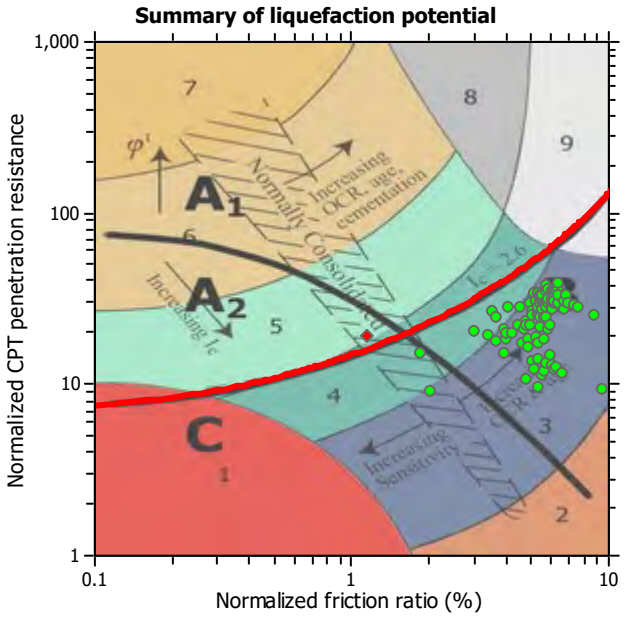
CPT file : SP148

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

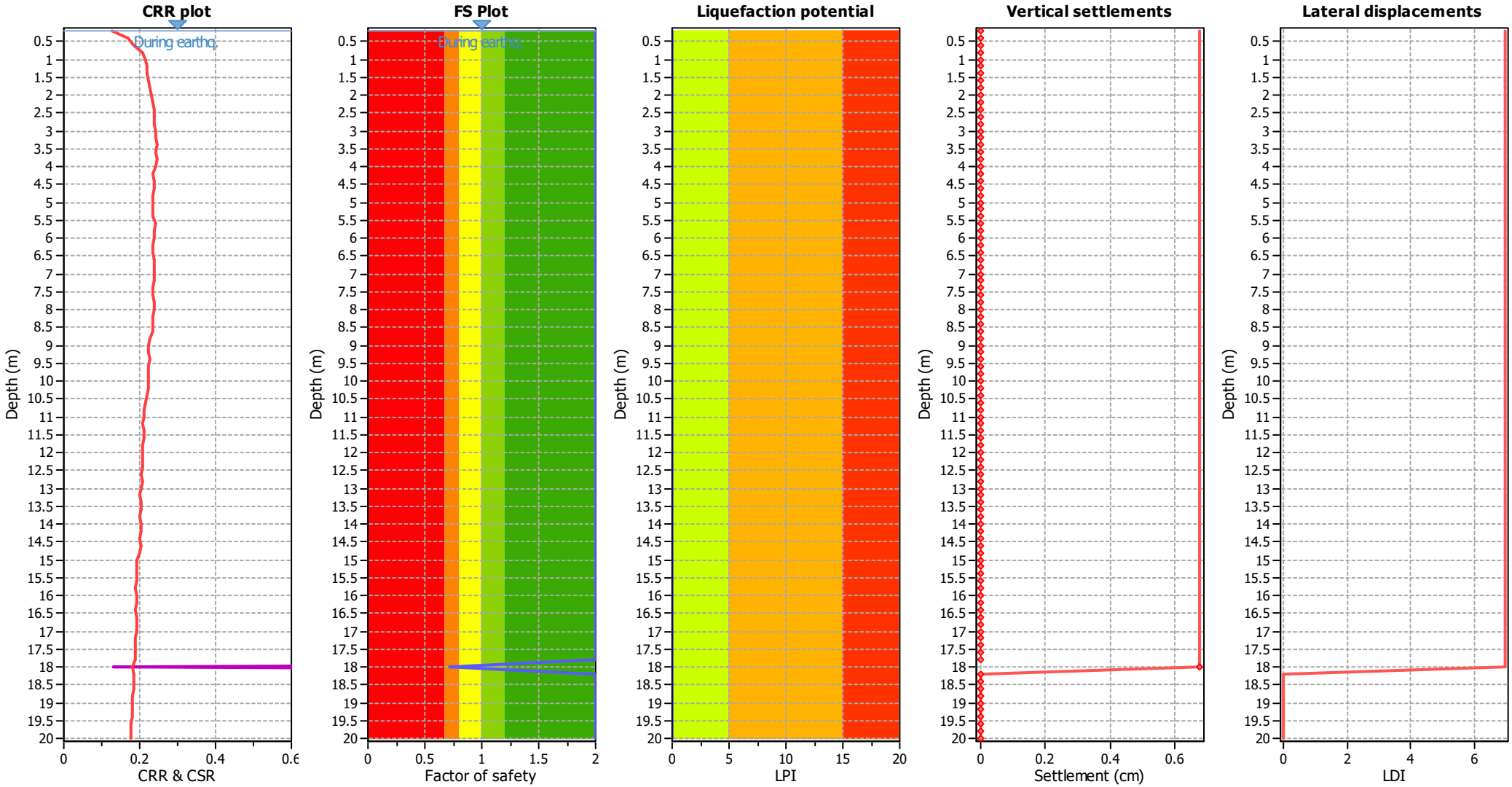






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	2.00	0.00	0.00	0.20	0.00	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	2.00	0.00	0.00	0.20	0.00
4.20	2.00	0.00	0.00	0.20	0.00	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	0.72	0.28	1.03	0.20	0.06
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 0.06

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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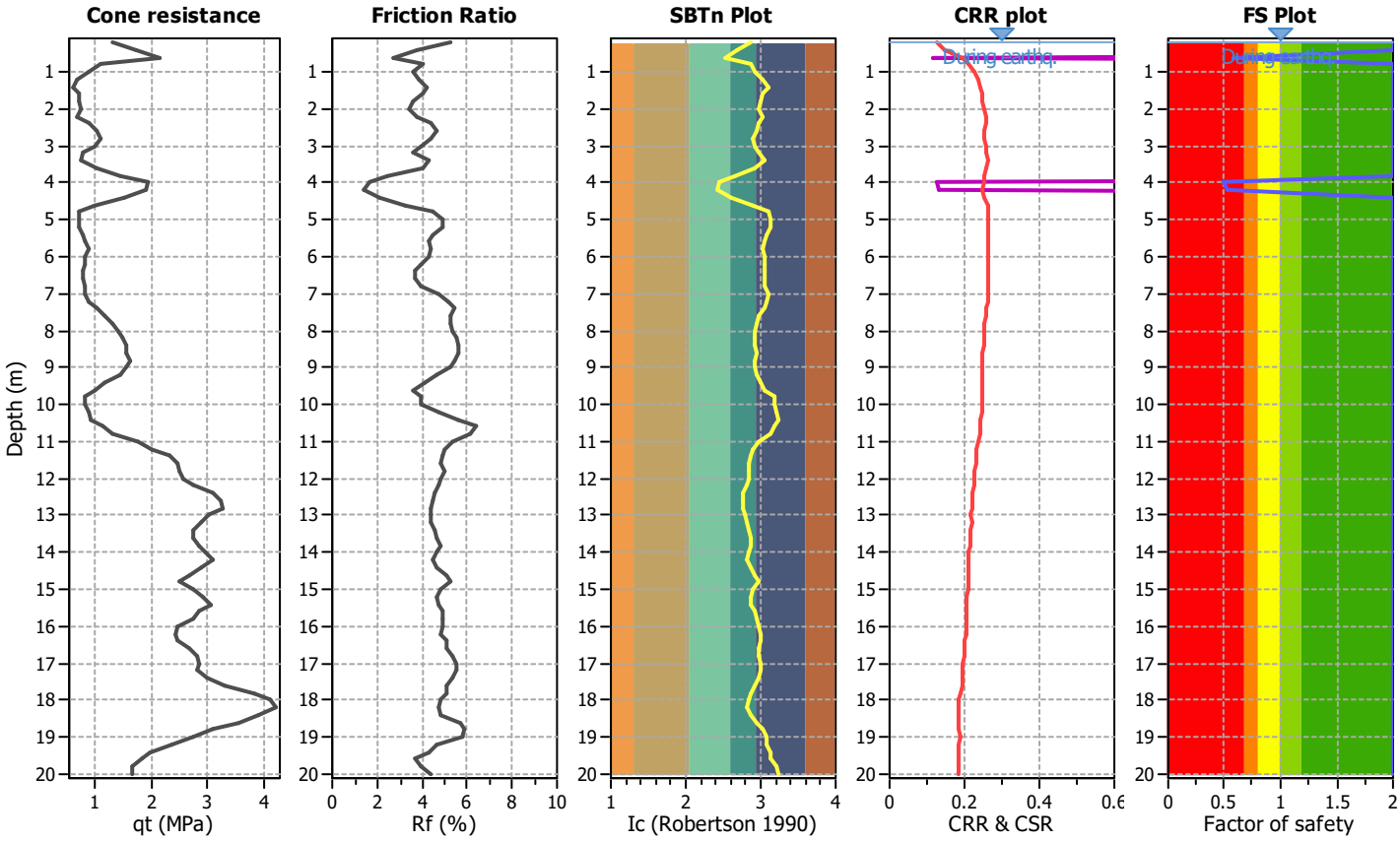
LIQUEFACTION ANALYSIS REPORT

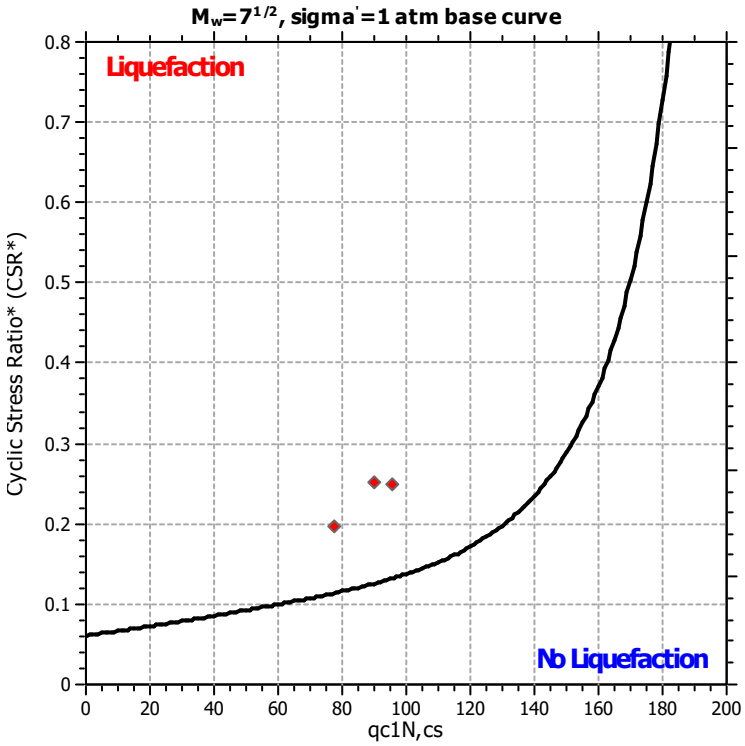
Project title : **Location :**

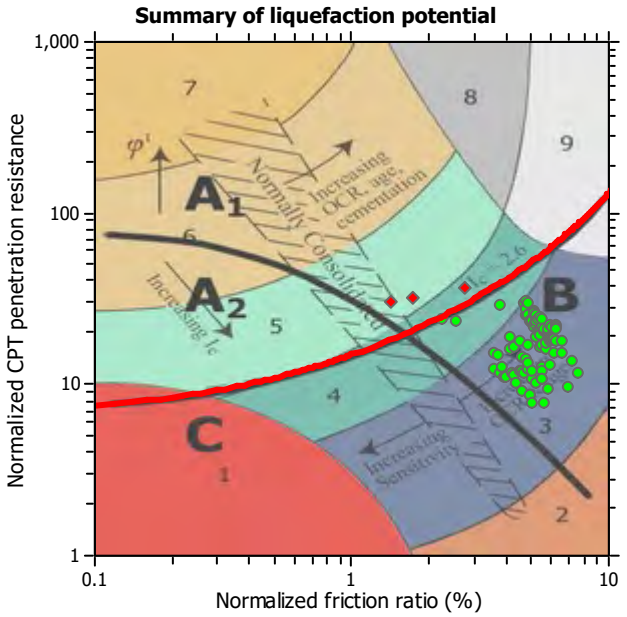
CPT file : SP047

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

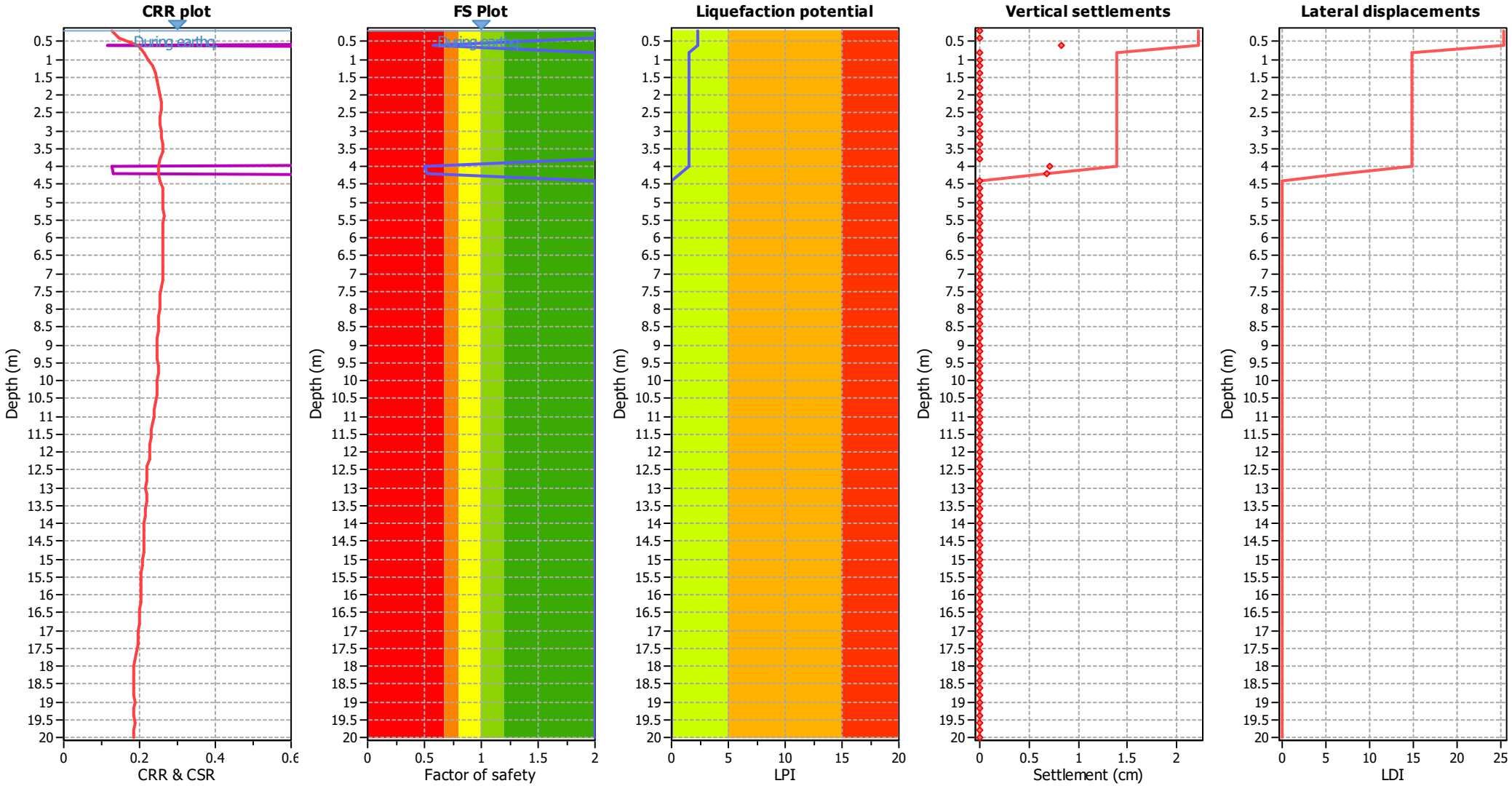






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.20	2.00	0.00	0.00	0.20	0.00	0.40	2.00	0.00	0.00	0.20	0.00
0.60	0.58	0.42	0.60	0.20	0.81	0.80	2.00	0.00	0.00	0.20	0.00
1.00	2.00	0.00	0.00	0.20	0.00	1.20	2.00	0.00	0.00	0.20	0.00
1.40	2.00	0.00	0.00	0.20	0.00	1.60	2.00	0.00	0.00	0.20	0.00
1.80	2.00	0.00	0.00	0.20	0.00	2.00	2.00	0.00	0.00	0.20	0.00
2.20	2.00	0.00	0.00	0.20	0.00	2.40	2.00	0.00	0.00	0.20	0.00
2.60	2.00	0.00	0.00	0.20	0.00	2.80	2.00	0.00	0.00	0.20	0.00
3.00	2.00	0.00	0.00	0.20	0.00	3.20	2.00	0.00	0.00	0.20	0.00
3.40	2.00	0.00	0.00	0.20	0.00	3.60	2.00	0.00	0.00	0.20	0.00
3.80	2.00	0.00	0.00	0.20	0.00	4.00	0.50	0.50	0.48	0.20	0.80
4.20	0.53	0.47	0.52	0.20	0.74	4.40	2.00	0.00	0.00	0.20	0.00
4.60	2.00	0.00	0.00	0.20	0.00	4.80	2.00	0.00	0.00	0.20	0.00
5.00	2.00	0.00	0.00	0.20	0.00	5.20	2.00	0.00	0.00	0.20	0.00
5.40	2.00	0.00	0.00	0.20	0.00	5.60	2.00	0.00	0.00	0.20	0.00
5.80	2.00	0.00	0.00	0.20	0.00	6.00	2.00	0.00	0.00	0.20	0.00
6.20	2.00	0.00	0.00	0.20	0.00	6.40	2.00	0.00	0.00	0.20	0.00
6.60	2.00	0.00	0.00	0.20	0.00	6.80	2.00	0.00	0.00	0.20	0.00
7.00	2.00	0.00	0.00	0.20	0.00	7.20	2.00	0.00	0.00	0.20	0.00
7.40	2.00	0.00	0.00	0.20	0.00	7.60	2.00	0.00	0.00	0.20	0.00
7.80	2.00	0.00	0.00	0.20	0.00	8.00	2.00	0.00	0.00	0.20	0.00
8.20	2.00	0.00	0.00	0.20	0.00	8.40	2.00	0.00	0.00	0.20	0.00
8.60	2.00	0.00	0.00	0.20	0.00	8.80	2.00	0.00	0.00	0.20	0.00
9.00	2.00	0.00	0.00	0.20	0.00	9.20	2.00	0.00	0.00	0.20	0.00
9.40	2.00	0.00	0.00	0.20	0.00	9.60	2.00	0.00	0.00	0.20	0.00
9.80	2.00	0.00	0.00	0.20	0.00	10.00	2.00	0.00	0.00	0.20	0.00
10.20	2.00	0.00	0.00	0.20	0.00	10.40	2.00	0.00	0.00	0.20	0.00
10.60	2.00	0.00	0.00	0.20	0.00	10.80	2.00	0.00	0.00	0.20	0.00
11.00	2.00	0.00	0.00	0.20	0.00	11.20	2.00	0.00	0.00	0.20	0.00
11.40	2.00	0.00	0.00	0.20	0.00	11.60	2.00	0.00	0.00	0.20	0.00
11.80	2.00	0.00	0.00	0.20	0.00	12.00	2.00	0.00	0.00	0.20	0.00
12.20	2.00	0.00	0.00	0.20	0.00	12.40	2.00	0.00	0.00	0.20	0.00
12.60	2.00	0.00	0.00	0.20	0.00	12.80	2.00	0.00	0.00	0.20	0.00
13.00	2.00	0.00	0.00	0.20	0.00	13.20	2.00	0.00	0.00	0.20	0.00
13.40	2.00	0.00	0.00	0.20	0.00	13.60	2.00	0.00	0.00	0.20	0.00
13.80	2.00	0.00	0.00	0.20	0.00	14.00	2.00	0.00	0.00	0.20	0.00
14.20	2.00	0.00	0.00	0.20	0.00	14.40	2.00	0.00	0.00	0.20	0.00
14.60	2.00	0.00	0.00	0.20	0.00	14.80	2.00	0.00	0.00	0.20	0.00
15.00	2.00	0.00	0.00	0.20	0.00	15.20	2.00	0.00	0.00	0.20	0.00
15.40	2.00	0.00	0.00	0.20	0.00	15.60	2.00	0.00	0.00	0.20	0.00
15.80	2.00	0.00	0.00	0.20	0.00	16.00	2.00	0.00	0.00	0.20	0.00
16.20	2.00	0.00	0.00	0.20	0.00	16.40	2.00	0.00	0.00	0.20	0.00
16.60	2.00	0.00	0.00	0.20	0.00	16.80	2.00	0.00	0.00	0.20	0.00
17.00	2.00	0.00	0.00	0.20	0.00	17.20	2.00	0.00	0.00	0.20	0.00
17.40	2.00	0.00	0.00	0.20	0.00	17.60	2.00	0.00	0.00	0.20	0.00
17.80	2.00	0.00	0.00	0.20	0.00	18.00	2.00	0.00	0.00	0.20	0.00
18.20	2.00	0.00	0.00	0.20	0.00	18.40	2.00	0.00	0.00	0.20	0.00
18.60	2.00	0.00	0.00	0.20	0.00	18.80	2.00	0.00	0.00	0.20	0.00
19.00	2.00	0.00	0.00	0.20	0.00	19.20	2.00	0.00	0.00	0.20	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.40	2.00	0.00	0.00	0.20	0.00	19.60	2.00	0.00	0.00	0.20	0.00
19.80	2.00	0.00	0.00	0.20	0.00	20.00	2.00	0.00	0.00	0.20	0.00

Overall liquefaction potential: 2.36

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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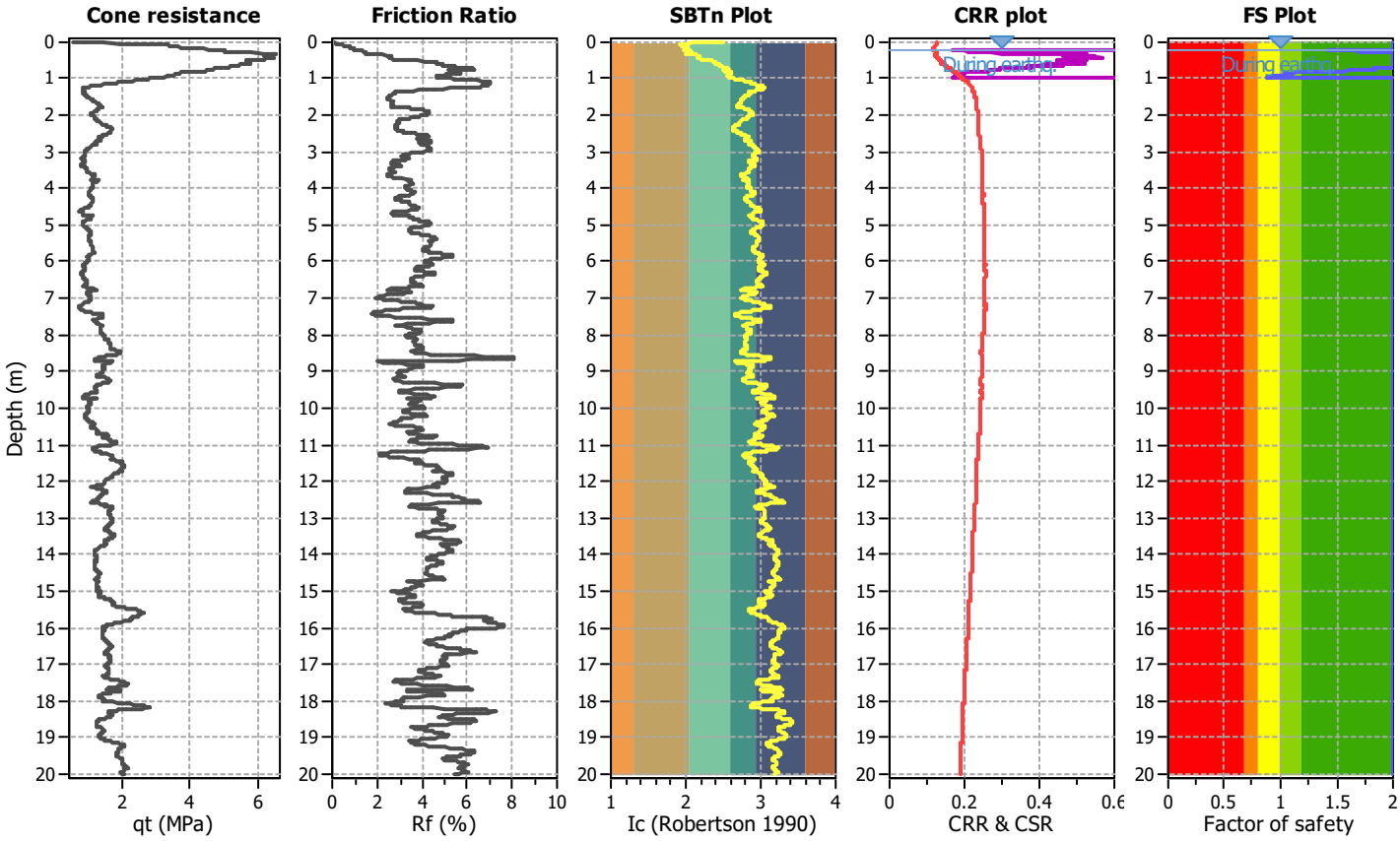
LIQUEFACTION ANALYSIS REPORT

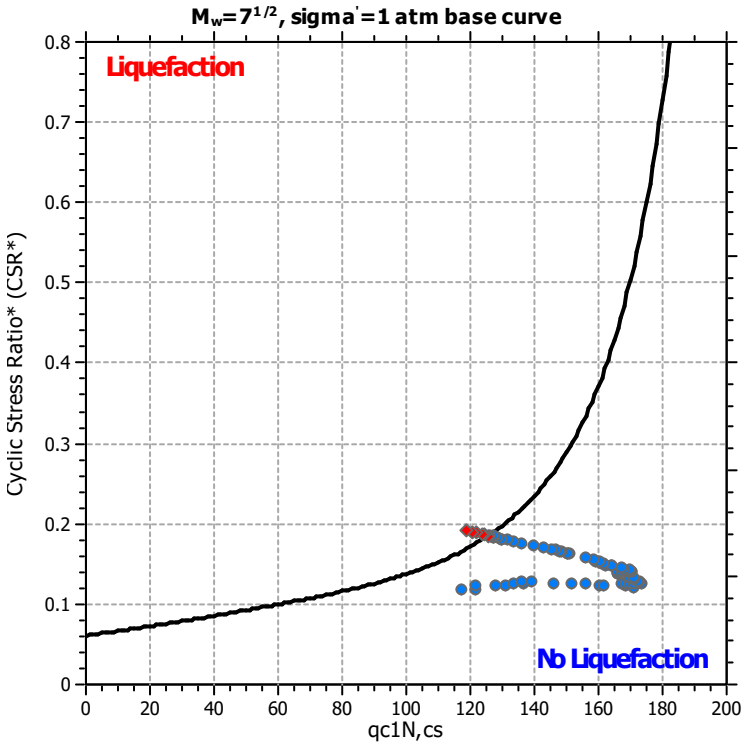
Project title : **Location :**

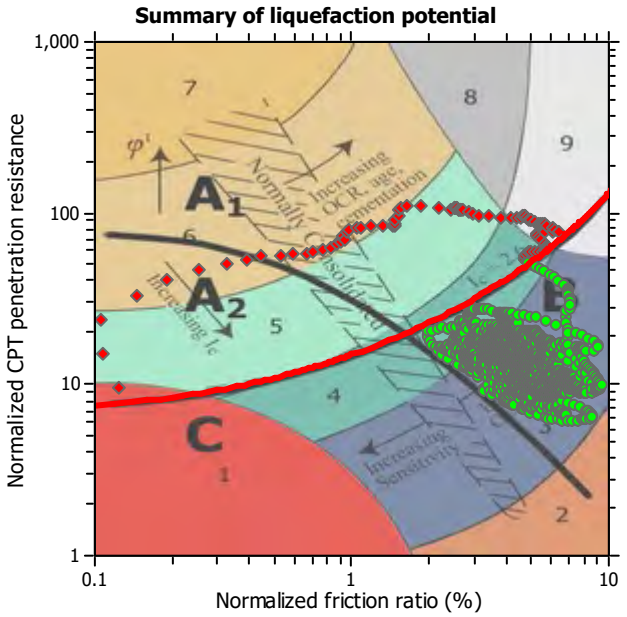
CPT file : SP001

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

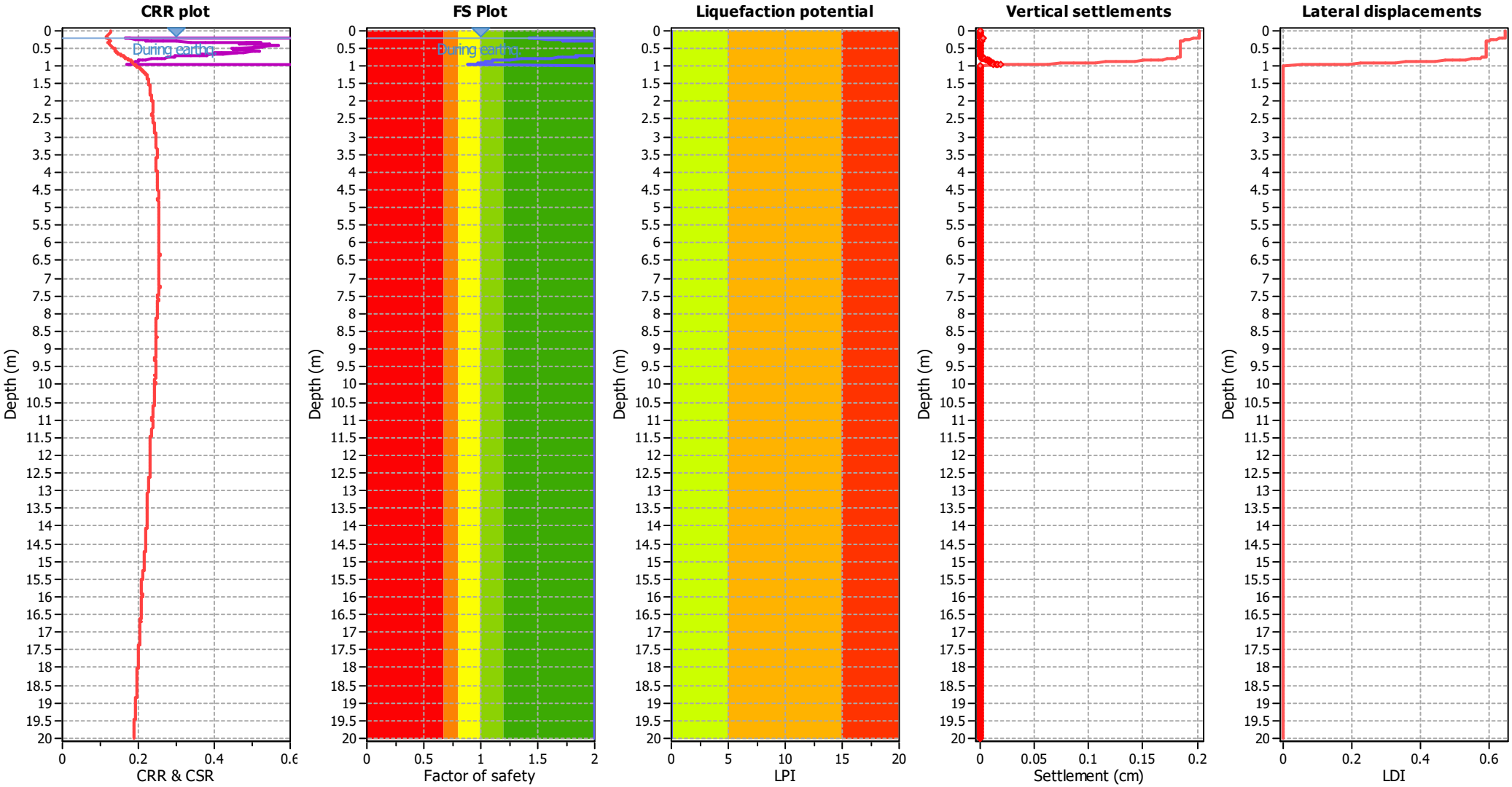






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.01	2.00	0.00	0.00	0.01	0.00	0.02	2.00	0.00	0.00	0.01	0.00
0.03	2.00	0.00	0.00	0.01	0.00	0.04	2.00	0.00	0.00	0.01	0.00
0.05	2.00	0.00	0.00	0.01	0.00	0.06	2.00	0.00	0.00	0.01	0.00
0.07	2.00	0.00	0.00	0.01	0.00	0.08	2.00	0.00	0.00	0.01	0.00
0.09	2.00	0.00	0.00	0.01	0.00	0.10	2.00	0.00	0.00	0.01	0.00
0.11	2.00	0.00	0.00	0.01	0.00	0.12	2.00	0.00	0.00	0.01	0.00
0.13	2.00	0.00	0.00	0.01	0.00	0.14	2.00	0.00	0.00	0.01	0.00
0.15	2.00	0.00	0.00	0.01	0.00	0.16	2.00	0.00	0.00	0.01	0.00
0.17	2.00	0.00	0.00	0.01	0.00	0.18	2.00	0.00	0.00	0.01	0.00
0.19	2.00	0.00	0.00	0.01	0.00	0.20	2.00	0.00	0.00	0.01	0.00
0.21	1.43	0.00	0.00	0.01	0.00	0.22	1.48	0.00	0.00	0.01	0.00
0.23	1.46	0.00	0.00	0.01	0.00	0.24	1.59	0.00	0.00	0.01	0.00
0.25	1.65	0.00	0.00	0.01	0.00	0.26	1.69	0.00	0.00	0.01	0.00
0.27	1.78	0.00	0.00	0.01	0.00	0.28	1.72	0.00	0.00	0.01	0.00
0.29	1.83	0.00	0.00	0.01	0.00	0.30	2.00	0.00	0.00	0.01	0.00
0.31	2.00	0.00	0.00	0.01	0.00	0.32	2.00	0.00	0.00	0.01	0.00
0.33	2.00	0.00	0.00	0.01	0.00	0.34	2.00	0.00	0.00	0.01	0.00
0.35	2.00	0.00	0.00	0.01	0.00	0.36	2.00	0.00	0.00	0.01	0.00
0.37	2.00	0.00	0.00	0.01	0.00	0.38	2.00	0.00	0.00	0.01	0.00
0.39	2.00	0.00	0.00	0.01	0.00	0.40	2.00	0.00	0.00	0.01	0.00
0.41	2.00	0.00	0.00	0.01	0.00	0.42	2.00	0.00	0.00	0.01	0.00
0.43	2.00	0.00	0.00	0.01	0.00	0.44	2.00	0.00	0.00	0.01	0.00
0.45	2.00	0.00	0.00	0.01	0.00	0.46	2.00	0.00	0.00	0.01	0.00
0.47	2.00	0.00	0.00	0.01	0.00	0.48	2.00	0.00	0.00	0.01	0.00
0.49	2.00	0.00	0.00	0.01	0.00	0.50	2.00	0.00	0.00	0.01	0.00
0.51	2.00	0.00	0.00	0.01	0.00	0.52	2.00	0.00	0.00	0.01	0.00
0.53	2.00	0.00	0.00	0.01	0.00	0.54	2.00	0.00	0.00	0.01	0.00
0.55	2.00	0.00	0.00	0.01	0.00	0.56	2.00	0.00	0.00	0.01	0.00
0.57	2.00	0.00	0.00	0.01	0.00	0.58	2.00	0.00	0.00	0.01	0.00
0.59	2.00	0.00	0.00	0.01	0.00	0.60	2.00	0.00	0.00	0.01	0.00
0.61	2.00	0.00	0.00	0.01	0.00	0.62	2.00	0.00	0.00	0.01	0.00
0.63	2.00	0.00	0.00	0.01	0.00	0.64	2.00	0.00	0.00	0.01	0.00
0.65	2.00	0.00	0.00	0.01	0.00	0.66	2.00	0.00	0.00	0.01	0.00
0.67	2.00	0.00	0.00	0.01	0.00	0.68	2.00	0.00	0.00	0.01	0.00
0.69	2.00	0.00	0.00	0.01	0.00	0.70	2.00	0.00	0.00	0.01	0.00
0.71	2.00	0.00	0.00	0.01	0.00	0.72	2.00	0.00	0.00	0.01	0.00
0.73	1.83	0.00	0.00	0.01	0.00	0.74	1.84	0.00	0.00	0.01	0.00
0.75	1.82	0.00	0.00	0.01	0.00	0.76	1.72	0.00	0.00	0.01	0.00
0.77	1.69	0.00	0.00	0.01	0.00	0.78	1.62	0.00	0.00	0.01	0.00
0.79	1.56	0.00	0.00	0.01	0.00	0.80	1.47	0.00	0.00	0.01	0.00
0.81	1.36	0.00	0.00	0.01	0.00	0.82	1.26	0.00	0.00	0.01	0.00
0.83	1.19	0.00	0.00	0.01	0.00	0.84	1.14	0.00	0.00	0.01	0.00
0.85	1.10	0.00	0.00	0.01	0.00	0.86	1.10	0.00	0.00	0.01	0.00
0.87	1.06	0.00	0.00	0.01	0.00	0.88	1.04	0.00	0.00	0.01	0.00
0.89	1.04	0.00	0.00	0.01	0.00	0.90	1.03	0.00	0.00	0.01	0.00
0.91	1.01	0.00	0.00	0.01	0.00	0.92	1.00	0.00	592121500	0.01	0.00
0.93	0.98	0.02	8779.79	0.01	0.00	0.94	0.96	0.04	193.76	0.01	0.00
0.95	0.93	0.07	18.48	0.01	0.01	0.96	0.91	0.09	7.46	0.01	0.01

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.97	0.88	0.12	4.23	0.01	0.01	0.98	2.00	0.00	0.00	0.01	0.00
0.99	2.00	0.00	0.00	0.01	0.00	1.00	2.00	0.00	0.00	0.01	0.00
1.01	2.00	0.00	0.00	0.01	0.00	1.02	2.00	0.00	0.00	0.01	0.00
1.03	2.00	0.00	0.00	0.01	0.00	1.04	2.00	0.00	0.00	0.01	0.00
1.05	2.00	0.00	0.00	0.01	0.00	1.06	2.00	0.00	0.00	0.01	0.00
1.07	2.00	0.00	0.00	0.01	0.00	1.08	2.00	0.00	0.00	0.01	0.00
1.09	2.00	0.00	0.00	0.01	0.00	1.10	2.00	0.00	0.00	0.01	0.00
1.11	2.00	0.00	0.00	0.01	0.00	1.12	2.00	0.00	0.00	0.01	0.00
1.13	2.00	0.00	0.00	0.01	0.00	1.14	2.00	0.00	0.00	0.01	0.00
1.15	2.00	0.00	0.00	0.01	0.00	1.16	2.00	0.00	0.00	0.01	0.00
1.17	2.00	0.00	0.00	0.01	0.00	1.18	2.00	0.00	0.00	0.01	0.00
1.19	2.00	0.00	0.00	0.01	0.00	1.20	2.00	0.00	0.00	0.01	0.00
1.21	2.00	0.00	0.00	0.01	0.00	1.22	2.00	0.00	0.00	0.01	0.00
1.23	2.00	0.00	0.00	0.01	0.00	1.24	2.00	0.00	0.00	0.01	0.00
1.25	2.00	0.00	0.00	0.01	0.00	1.26	2.00	0.00	0.00	0.01	0.00
1.27	2.00	0.00	0.00	0.01	0.00	1.28	2.00	0.00	0.00	0.01	0.00
1.29	2.00	0.00	0.00	0.01	0.00	1.30	2.00	0.00	0.00	0.01	0.00
1.31	2.00	0.00	0.00	0.01	0.00	1.32	2.00	0.00	0.00	0.01	0.00
1.33	2.00	0.00	0.00	0.01	0.00	1.34	2.00	0.00	0.00	0.01	0.00
1.35	2.00	0.00	0.00	0.01	0.00	1.36	2.00	0.00	0.00	0.01	0.00
1.37	2.00	0.00	0.00	0.01	0.00	1.38	2.00	0.00	0.00	0.01	0.00
1.39	2.00	0.00	0.00	0.01	0.00	1.40	2.00	0.00	0.00	0.01	0.00
1.41	2.00	0.00	0.00	0.01	0.00	1.42	2.00	0.00	0.00	0.01	0.00
1.43	2.00	0.00	0.00	0.01	0.00	1.44	2.00	0.00	0.00	0.01	0.00
1.45	2.00	0.00	0.00	0.01	0.00	1.46	2.00	0.00	0.00	0.01	0.00
1.47	2.00	0.00	0.00	0.01	0.00	1.48	2.00	0.00	0.00	0.01	0.00
1.49	2.00	0.00	0.00	0.01	0.00	1.50	2.00	0.00	0.00	0.01	0.00
1.51	2.00	0.00	0.00	0.01	0.00	1.52	2.00	0.00	0.00	0.01	0.00
1.53	2.00	0.00	0.00	0.01	0.00	1.54	2.00	0.00	0.00	0.01	0.00
1.55	2.00	0.00	0.00	0.01	0.00	1.56	2.00	0.00	0.00	0.01	0.00
1.57	2.00	0.00	0.00	0.01	0.00	1.58	2.00	0.00	0.00	0.01	0.00
1.59	2.00	0.00	0.00	0.01	0.00	1.60	2.00	0.00	0.00	0.01	0.00
1.61	2.00	0.00	0.00	0.01	0.00	1.62	2.00	0.00	0.00	0.01	0.00
1.63	2.00	0.00	0.00	0.01	0.00	1.64	2.00	0.00	0.00	0.01	0.00
1.65	2.00	0.00	0.00	0.01	0.00	1.66	2.00	0.00	0.00	0.01	0.00
1.67	2.00	0.00	0.00	0.01	0.00	1.68	2.00	0.00	0.00	0.01	0.00
1.69	2.00	0.00	0.00	0.01	0.00	1.70	2.00	0.00	0.00	0.01	0.00
1.71	2.00	0.00	0.00	0.01	0.00	1.72	2.00	0.00	0.00	0.01	0.00
1.73	2.00	0.00	0.00	0.01	0.00	1.74	2.00	0.00	0.00	0.01	0.00
1.75	2.00	0.00	0.00	0.01	0.00	1.76	2.00	0.00	0.00	0.01	0.00
1.77	2.00	0.00	0.00	0.01	0.00	1.78	2.00	0.00	0.00	0.01	0.00
1.79	2.00	0.00	0.00	0.01	0.00	1.80	2.00	0.00	0.00	0.01	0.00
1.81	2.00	0.00	0.00	0.01	0.00	1.82	2.00	0.00	0.00	0.01	0.00
1.83	2.00	0.00	0.00	0.01	0.00	1.84	2.00	0.00	0.00	0.01	0.00
1.85	2.00	0.00	0.00	0.01	0.00	1.86	2.00	0.00	0.00	0.01	0.00
1.87	2.00	0.00	0.00	0.01	0.00	1.88	2.00	0.00	0.00	0.01	0.00
1.89	2.00	0.00	0.00	0.01	0.00	1.90	2.00	0.00	0.00	0.01	0.00
1.91	2.00	0.00	0.00	0.01	0.00	1.92	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.93	2.00	0.00	0.00	0.01	0.00	1.94	2.00	0.00	0.00	0.01	0.00
1.95	2.00	0.00	0.00	0.01	0.00	1.96	2.00	0.00	0.00	0.01	0.00
1.97	2.00	0.00	0.00	0.01	0.00	1.98	2.00	0.00	0.00	0.01	0.00
1.99	2.00	0.00	0.00	0.01	0.00	2.00	2.00	0.00	0.00	0.01	0.00
2.01	2.00	0.00	0.00	0.01	0.00	2.02	2.00	0.00	0.00	0.01	0.00
2.03	2.00	0.00	0.00	0.01	0.00	2.04	2.00	0.00	0.00	0.01	0.00
2.05	2.00	0.00	0.00	0.01	0.00	2.06	2.00	0.00	0.00	0.01	0.00
2.07	2.00	0.00	0.00	0.01	0.00	2.08	2.00	0.00	0.00	0.01	0.00
2.09	2.00	0.00	0.00	0.01	0.00	2.10	2.00	0.00	0.00	0.01	0.00
2.11	2.00	0.00	0.00	0.01	0.00	2.12	2.00	0.00	0.00	0.01	0.00
2.13	2.00	0.00	0.00	0.01	0.00	2.14	2.00	0.00	0.00	0.01	0.00
2.15	2.00	0.00	0.00	0.01	0.00	2.16	2.00	0.00	0.00	0.01	0.00
2.17	2.00	0.00	0.00	0.01	0.00	2.18	2.00	0.00	0.00	0.01	0.00
2.19	2.00	0.00	0.00	0.01	0.00	2.20	2.00	0.00	0.00	0.01	0.00
2.21	2.00	0.00	0.00	0.01	0.00	2.22	2.00	0.00	0.00	0.01	0.00
2.23	2.00	0.00	0.00	0.01	0.00	2.24	2.00	0.00	0.00	0.01	0.00
2.25	2.00	0.00	0.00	0.01	0.00	2.26	2.00	0.00	0.00	0.01	0.00
2.27	2.00	0.00	0.00	0.01	0.00	2.28	2.00	0.00	0.00	0.01	0.00
2.29	2.00	0.00	0.00	0.01	0.00	2.30	2.00	0.00	0.00	0.01	0.00
2.31	2.00	0.00	0.00	0.01	0.00	2.32	2.00	0.00	0.00	0.01	0.00
2.33	2.00	0.00	0.00	0.01	0.00	2.34	2.00	0.00	0.00	0.01	0.00
2.35	2.00	0.00	0.00	0.01	0.00	2.36	2.00	0.00	0.00	0.01	0.00
2.37	2.00	0.00	0.00	0.01	0.00	2.38	2.00	0.00	0.00	0.01	0.00
2.39	2.00	0.00	0.00	0.01	0.00	2.40	2.00	0.00	0.00	0.01	0.00
2.41	2.00	0.00	0.00	0.01	0.00	2.42	2.00	0.00	0.00	0.01	0.00
2.43	2.00	0.00	0.00	0.01	0.00	2.44	2.00	0.00	0.00	0.01	0.00
2.45	2.00	0.00	0.00	0.01	0.00	2.46	2.00	0.00	0.00	0.01	0.00
2.47	2.00	0.00	0.00	0.01	0.00	2.48	2.00	0.00	0.00	0.01	0.00
2.49	2.00	0.00	0.00	0.01	0.00	2.50	2.00	0.00	0.00	0.01	0.00
2.51	2.00	0.00	0.00	0.01	0.00	2.52	2.00	0.00	0.00	0.01	0.00
2.53	2.00	0.00	0.00	0.01	0.00	2.54	2.00	0.00	0.00	0.01	0.00
2.55	2.00	0.00	0.00	0.01	0.00	2.56	2.00	0.00	0.00	0.01	0.00
2.57	2.00	0.00	0.00	0.01	0.00	2.58	2.00	0.00	0.00	0.01	0.00
2.59	2.00	0.00	0.00	0.01	0.00	2.60	2.00	0.00	0.00	0.01	0.00
2.61	2.00	0.00	0.00	0.01	0.00	2.62	2.00	0.00	0.00	0.01	0.00
2.63	2.00	0.00	0.00	0.01	0.00	2.64	2.00	0.00	0.00	0.01	0.00
2.65	2.00	0.00	0.00	0.01	0.00	2.66	2.00	0.00	0.00	0.01	0.00
2.67	2.00	0.00	0.00	0.01	0.00	2.68	2.00	0.00	0.00	0.01	0.00
2.69	2.00	0.00	0.00	0.01	0.00	2.70	2.00	0.00	0.00	0.01	0.00
2.71	2.00	0.00	0.00	0.01	0.00	2.72	2.00	0.00	0.00	0.01	0.00
2.73	2.00	0.00	0.00	0.01	0.00	2.74	2.00	0.00	0.00	0.01	0.00
2.75	2.00	0.00	0.00	0.01	0.00	2.76	2.00	0.00	0.00	0.01	0.00
2.77	2.00	0.00	0.00	0.01	0.00	2.78	2.00	0.00	0.00	0.01	0.00
2.79	2.00	0.00	0.00	0.01	0.00	2.80	2.00	0.00	0.00	0.01	0.00
2.81	2.00	0.00	0.00	0.01	0.00	2.82	2.00	0.00	0.00	0.01	0.00
2.83	2.00	0.00	0.00	0.01	0.00	2.84	2.00	0.00	0.00	0.01	0.00
2.85	2.00	0.00	0.00	0.01	0.00	2.86	2.00	0.00	0.00	0.01	0.00
2.87	2.00	0.00	0.00	0.01	0.00	2.88	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.89	2.00	0.00	0.00	0.01	0.00	2.90	2.00	0.00	0.00	0.01	0.00
2.91	2.00	0.00	0.00	0.01	0.00	2.92	2.00	0.00	0.00	0.01	0.00
2.93	2.00	0.00	0.00	0.01	0.00	2.94	2.00	0.00	0.00	0.01	0.00
2.95	2.00	0.00	0.00	0.01	0.00	2.96	2.00	0.00	0.00	0.01	0.00
2.97	2.00	0.00	0.00	0.01	0.00	2.98	2.00	0.00	0.00	0.01	0.00
2.99	2.00	0.00	0.00	0.01	0.00	3.00	2.00	0.00	0.00	0.01	0.00
3.01	2.00	0.00	0.00	0.01	0.00	3.02	2.00	0.00	0.00	0.01	0.00
3.03	2.00	0.00	0.00	0.01	0.00	3.04	2.00	0.00	0.00	0.01	0.00
3.05	2.00	0.00	0.00	0.01	0.00	3.06	2.00	0.00	0.00	0.01	0.00
3.07	2.00	0.00	0.00	0.01	0.00	3.08	2.00	0.00	0.00	0.01	0.00
3.09	2.00	0.00	0.00	0.01	0.00	3.10	2.00	0.00	0.00	0.01	0.00
3.11	2.00	0.00	0.00	0.01	0.00	3.12	2.00	0.00	0.00	0.01	0.00
3.13	2.00	0.00	0.00	0.01	0.00	3.14	2.00	0.00	0.00	0.01	0.00
3.15	2.00	0.00	0.00	0.01	0.00	3.16	2.00	0.00	0.00	0.01	0.00
3.17	2.00	0.00	0.00	0.01	0.00	3.18	2.00	0.00	0.00	0.01	0.00
3.19	2.00	0.00	0.00	0.01	0.00	3.20	2.00	0.00	0.00	0.01	0.00
3.21	2.00	0.00	0.00	0.01	0.00	3.22	2.00	0.00	0.00	0.01	0.00
3.23	2.00	0.00	0.00	0.01	0.00	3.24	2.00	0.00	0.00	0.01	0.00
3.25	2.00	0.00	0.00	0.01	0.00	3.26	2.00	0.00	0.00	0.01	0.00
3.27	2.00	0.00	0.00	0.01	0.00	3.28	2.00	0.00	0.00	0.01	0.00
3.29	2.00	0.00	0.00	0.01	0.00	3.30	2.00	0.00	0.00	0.01	0.00
3.31	2.00	0.00	0.00	0.01	0.00	3.32	2.00	0.00	0.00	0.01	0.00
3.33	2.00	0.00	0.00	0.01	0.00	3.34	2.00	0.00	0.00	0.01	0.00
3.35	2.00	0.00	0.00	0.01	0.00	3.36	2.00	0.00	0.00	0.01	0.00
3.37	2.00	0.00	0.00	0.01	0.00	3.38	2.00	0.00	0.00	0.01	0.00
3.39	2.00	0.00	0.00	0.01	0.00	3.40	2.00	0.00	0.00	0.01	0.00
3.41	2.00	0.00	0.00	0.01	0.00	3.42	2.00	0.00	0.00	0.01	0.00
3.43	2.00	0.00	0.00	0.01	0.00	3.44	2.00	0.00	0.00	0.01	0.00
3.45	2.00	0.00	0.00	0.01	0.00	3.46	2.00	0.00	0.00	0.01	0.00
3.47	2.00	0.00	0.00	0.01	0.00	3.48	2.00	0.00	0.00	0.01	0.00
3.49	2.00	0.00	0.00	0.01	0.00	3.50	2.00	0.00	0.00	0.01	0.00
3.51	2.00	0.00	0.00	0.01	0.00	3.52	2.00	0.00	0.00	0.01	0.00
3.53	2.00	0.00	0.00	0.01	0.00	3.54	2.00	0.00	0.00	0.01	0.00
3.55	2.00	0.00	0.00	0.01	0.00	3.56	2.00	0.00	0.00	0.01	0.00
3.57	2.00	0.00	0.00	0.01	0.00	3.58	2.00	0.00	0.00	0.01	0.00
3.59	2.00	0.00	0.00	0.01	0.00	3.60	2.00	0.00	0.00	0.01	0.00
3.61	2.00	0.00	0.00	0.01	0.00	3.62	2.00	0.00	0.00	0.01	0.00
3.63	2.00	0.00	0.00	0.01	0.00	3.64	2.00	0.00	0.00	0.01	0.00
3.65	2.00	0.00	0.00	0.01	0.00	3.66	2.00	0.00	0.00	0.01	0.00
3.67	2.00	0.00	0.00	0.01	0.00	3.68	2.00	0.00	0.00	0.01	0.00
3.69	2.00	0.00	0.00	0.01	0.00	3.70	2.00	0.00	0.00	0.01	0.00
3.71	2.00	0.00	0.00	0.01	0.00	3.72	2.00	0.00	0.00	0.01	0.00
3.73	2.00	0.00	0.00	0.01	0.00	3.74	2.00	0.00	0.00	0.01	0.00
3.75	2.00	0.00	0.00	0.01	0.00	3.76	2.00	0.00	0.00	0.01	0.00
3.77	2.00	0.00	0.00	0.01	0.00	3.78	2.00	0.00	0.00	0.01	0.00
3.79	2.00	0.00	0.00	0.01	0.00	3.80	2.00	0.00	0.00	0.01	0.00
3.81	2.00	0.00	0.00	0.01	0.00	3.82	2.00	0.00	0.00	0.01	0.00
3.83	2.00	0.00	0.00	0.01	0.00	3.84	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.85	2.00	0.00	0.00	0.01	0.00	3.86	2.00	0.00	0.00	0.01	0.00
3.87	2.00	0.00	0.00	0.01	0.00	3.88	2.00	0.00	0.00	0.01	0.00
3.89	2.00	0.00	0.00	0.01	0.00	3.90	2.00	0.00	0.00	0.01	0.00
3.91	2.00	0.00	0.00	0.01	0.00	3.92	2.00	0.00	0.00	0.01	0.00
3.93	2.00	0.00	0.00	0.01	0.00	3.94	2.00	0.00	0.00	0.01	0.00
3.95	2.00	0.00	0.00	0.01	0.00	3.96	2.00	0.00	0.00	0.01	0.00
3.97	2.00	0.00	0.00	0.01	0.00	3.98	2.00	0.00	0.00	0.01	0.00
3.99	2.00	0.00	0.00	0.01	0.00	4.00	2.00	0.00	0.00	0.01	0.00
4.01	2.00	0.00	0.00	0.01	0.00	4.02	2.00	0.00	0.00	0.01	0.00
4.03	2.00	0.00	0.00	0.01	0.00	4.04	2.00	0.00	0.00	0.01	0.00
4.05	2.00	0.00	0.00	0.01	0.00	4.06	2.00	0.00	0.00	0.01	0.00
4.07	2.00	0.00	0.00	0.01	0.00	4.08	2.00	0.00	0.00	0.01	0.00
4.09	2.00	0.00	0.00	0.01	0.00	4.10	2.00	0.00	0.00	0.01	0.00
4.11	2.00	0.00	0.00	0.01	0.00	4.12	2.00	0.00	0.00	0.01	0.00
4.13	2.00	0.00	0.00	0.01	0.00	4.14	2.00	0.00	0.00	0.01	0.00
4.15	2.00	0.00	0.00	0.01	0.00	4.16	2.00	0.00	0.00	0.01	0.00
4.17	2.00	0.00	0.00	0.01	0.00	4.18	2.00	0.00	0.00	0.01	0.00
4.19	2.00	0.00	0.00	0.01	0.00	4.20	2.00	0.00	0.00	0.01	0.00
4.21	2.00	0.00	0.00	0.01	0.00	4.22	2.00	0.00	0.00	0.01	0.00
4.23	2.00	0.00	0.00	0.01	0.00	4.24	2.00	0.00	0.00	0.01	0.00
4.25	2.00	0.00	0.00	0.01	0.00	4.26	2.00	0.00	0.00	0.01	0.00
4.27	2.00	0.00	0.00	0.01	0.00	4.28	2.00	0.00	0.00	0.01	0.00
4.29	2.00	0.00	0.00	0.01	0.00	4.30	2.00	0.00	0.00	0.01	0.00
4.31	2.00	0.00	0.00	0.01	0.00	4.32	2.00	0.00	0.00	0.01	0.00
4.33	2.00	0.00	0.00	0.01	0.00	4.34	2.00	0.00	0.00	0.01	0.00
4.35	2.00	0.00	0.00	0.01	0.00	4.36	2.00	0.00	0.00	0.01	0.00
4.37	2.00	0.00	0.00	0.01	0.00	4.38	2.00	0.00	0.00	0.01	0.00
4.39	2.00	0.00	0.00	0.01	0.00	4.40	2.00	0.00	0.00	0.01	0.00
4.41	2.00	0.00	0.00	0.01	0.00	4.42	2.00	0.00	0.00	0.01	0.00
4.43	2.00	0.00	0.00	0.01	0.00	4.44	2.00	0.00	0.00	0.01	0.00
4.45	2.00	0.00	0.00	0.01	0.00	4.46	2.00	0.00	0.00	0.01	0.00
4.47	2.00	0.00	0.00	0.01	0.00	4.48	2.00	0.00	0.00	0.01	0.00
4.49	2.00	0.00	0.00	0.01	0.00	4.50	2.00	0.00	0.00	0.01	0.00
4.51	2.00	0.00	0.00	0.01	0.00	4.52	2.00	0.00	0.00	0.01	0.00
4.53	2.00	0.00	0.00	0.01	0.00	4.54	2.00	0.00	0.00	0.01	0.00
4.55	2.00	0.00	0.00	0.01	0.00	4.56	2.00	0.00	0.00	0.01	0.00
4.57	2.00	0.00	0.00	0.01	0.00	4.58	2.00	0.00	0.00	0.01	0.00
4.59	2.00	0.00	0.00	0.01	0.00	4.60	2.00	0.00	0.00	0.01	0.00
4.61	2.00	0.00	0.00	0.01	0.00	4.62	2.00	0.00	0.00	0.01	0.00
4.63	2.00	0.00	0.00	0.01	0.00	4.64	2.00	0.00	0.00	0.01	0.00
4.65	2.00	0.00	0.00	0.01	0.00	4.66	2.00	0.00	0.00	0.01	0.00
4.67	2.00	0.00	0.00	0.01	0.00	4.68	2.00	0.00	0.00	0.01	0.00
4.69	2.00	0.00	0.00	0.01	0.00	4.70	2.00	0.00	0.00	0.01	0.00
4.71	2.00	0.00	0.00	0.01	0.00	4.72	2.00	0.00	0.00	0.01	0.00
4.73	2.00	0.00	0.00	0.01	0.00	4.74	2.00	0.00	0.00	0.01	0.00
4.75	2.00	0.00	0.00	0.01	0.00	4.76	2.00	0.00	0.00	0.01	0.00
4.77	2.00	0.00	0.00	0.01	0.00	4.78	2.00	0.00	0.00	0.01	0.00
4.79	2.00	0.00	0.00	0.01	0.00	4.80	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.81	2.00	0.00	0.00	0.01	0.00	4.82	2.00	0.00	0.00	0.01	0.00
4.83	2.00	0.00	0.00	0.01	0.00	4.84	2.00	0.00	0.00	0.01	0.00
4.85	2.00	0.00	0.00	0.01	0.00	4.86	2.00	0.00	0.00	0.01	0.00
4.87	2.00	0.00	0.00	0.01	0.00	4.88	2.00	0.00	0.00	0.01	0.00
4.89	2.00	0.00	0.00	0.01	0.00	4.90	2.00	0.00	0.00	0.01	0.00
4.91	2.00	0.00	0.00	0.01	0.00	4.92	2.00	0.00	0.00	0.01	0.00
4.93	2.00	0.00	0.00	0.01	0.00	4.94	2.00	0.00	0.00	0.01	0.00
4.95	2.00	0.00	0.00	0.01	0.00	4.96	2.00	0.00	0.00	0.01	0.00
4.97	2.00	0.00	0.00	0.01	0.00	4.98	2.00	0.00	0.00	0.01	0.00
4.99	2.00	0.00	0.00	0.01	0.00	5.00	2.00	0.00	0.00	0.01	0.00
5.01	2.00	0.00	0.00	0.01	0.00	5.02	2.00	0.00	0.00	0.01	0.00
5.03	2.00	0.00	0.00	0.01	0.00	5.04	2.00	0.00	0.00	0.01	0.00
5.05	2.00	0.00	0.00	0.01	0.00	5.06	2.00	0.00	0.00	0.01	0.00
5.07	2.00	0.00	0.00	0.01	0.00	5.08	2.00	0.00	0.00	0.01	0.00
5.09	2.00	0.00	0.00	0.01	0.00	5.10	2.00	0.00	0.00	0.01	0.00
5.11	2.00	0.00	0.00	0.01	0.00	5.12	2.00	0.00	0.00	0.01	0.00
5.13	2.00	0.00	0.00	0.01	0.00	5.14	2.00	0.00	0.00	0.01	0.00
5.15	2.00	0.00	0.00	0.01	0.00	5.16	2.00	0.00	0.00	0.01	0.00
5.17	2.00	0.00	0.00	0.01	0.00	5.18	2.00	0.00	0.00	0.01	0.00
5.19	2.00	0.00	0.00	0.01	0.00	5.20	2.00	0.00	0.00	0.01	0.00
5.21	2.00	0.00	0.00	0.01	0.00	5.22	2.00	0.00	0.00	0.01	0.00
5.23	2.00	0.00	0.00	0.01	0.00	5.24	2.00	0.00	0.00	0.01	0.00
5.25	2.00	0.00	0.00	0.01	0.00	5.26	2.00	0.00	0.00	0.01	0.00
5.27	2.00	0.00	0.00	0.01	0.00	5.28	2.00	0.00	0.00	0.01	0.00
5.29	2.00	0.00	0.00	0.01	0.00	5.30	2.00	0.00	0.00	0.01	0.00
5.31	2.00	0.00	0.00	0.01	0.00	5.32	2.00	0.00	0.00	0.01	0.00
5.33	2.00	0.00	0.00	0.01	0.00	5.34	2.00	0.00	0.00	0.01	0.00
5.35	2.00	0.00	0.00	0.01	0.00	5.36	2.00	0.00	0.00	0.01	0.00
5.37	2.00	0.00	0.00	0.01	0.00	5.38	2.00	0.00	0.00	0.01	0.00
5.39	2.00	0.00	0.00	0.01	0.00	5.40	2.00	0.00	0.00	0.01	0.00
5.41	2.00	0.00	0.00	0.01	0.00	5.42	2.00	0.00	0.00	0.01	0.00
5.43	2.00	0.00	0.00	0.01	0.00	5.44	2.00	0.00	0.00	0.01	0.00
5.45	2.00	0.00	0.00	0.01	0.00	5.46	2.00	0.00	0.00	0.01	0.00
5.47	2.00	0.00	0.00	0.01	0.00	5.48	2.00	0.00	0.00	0.01	0.00
5.49	2.00	0.00	0.00	0.01	0.00	5.50	2.00	0.00	0.00	0.01	0.00
5.51	2.00	0.00	0.00	0.01	0.00	5.52	2.00	0.00	0.00	0.01	0.00
5.53	2.00	0.00	0.00	0.01	0.00	5.54	2.00	0.00	0.00	0.01	0.00
5.55	2.00	0.00	0.00	0.01	0.00	5.56	2.00	0.00	0.00	0.01	0.00
5.57	2.00	0.00	0.00	0.01	0.00	5.58	2.00	0.00	0.00	0.01	0.00
5.59	2.00	0.00	0.00	0.01	0.00	5.60	2.00	0.00	0.00	0.01	0.00
5.61	2.00	0.00	0.00	0.01	0.00	5.62	2.00	0.00	0.00	0.01	0.00
5.63	2.00	0.00	0.00	0.01	0.00	5.64	2.00	0.00	0.00	0.01	0.00
5.65	2.00	0.00	0.00	0.01	0.00	5.66	2.00	0.00	0.00	0.01	0.00
5.67	2.00	0.00	0.00	0.01	0.00	5.68	2.00	0.00	0.00	0.01	0.00
5.69	2.00	0.00	0.00	0.01	0.00	5.70	2.00	0.00	0.00	0.01	0.00
5.71	2.00	0.00	0.00	0.01	0.00	5.72	2.00	0.00	0.00	0.01	0.00
5.73	2.00	0.00	0.00	0.01	0.00	5.74	2.00	0.00	0.00	0.01	0.00
5.75	2.00	0.00	0.00	0.01	0.00	5.76	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.77	2.00	0.00	0.00	0.01	0.00	5.78	2.00	0.00	0.00	0.01	0.00
5.79	2.00	0.00	0.00	0.01	0.00	5.80	2.00	0.00	0.00	0.01	0.00
5.81	2.00	0.00	0.00	0.01	0.00	5.82	2.00	0.00	0.00	0.01	0.00
5.83	2.00	0.00	0.00	0.01	0.00	5.84	2.00	0.00	0.00	0.01	0.00
5.85	2.00	0.00	0.00	0.01	0.00	5.86	2.00	0.00	0.00	0.01	0.00
5.87	2.00	0.00	0.00	0.01	0.00	5.88	2.00	0.00	0.00	0.01	0.00
5.89	2.00	0.00	0.00	0.01	0.00	5.90	2.00	0.00	0.00	0.01	0.00
5.91	2.00	0.00	0.00	0.01	0.00	5.92	2.00	0.00	0.00	0.01	0.00
5.93	2.00	0.00	0.00	0.01	0.00	5.94	2.00	0.00	0.00	0.01	0.00
5.95	2.00	0.00	0.00	0.01	0.00	5.96	2.00	0.00	0.00	0.01	0.00
5.97	2.00	0.00	0.00	0.01	0.00	5.98	2.00	0.00	0.00	0.01	0.00
5.99	2.00	0.00	0.00	0.01	0.00	6.00	2.00	0.00	0.00	0.01	0.00
6.01	2.00	0.00	0.00	0.01	0.00	6.02	2.00	0.00	0.00	0.01	0.00
6.03	2.00	0.00	0.00	0.01	0.00	6.04	2.00	0.00	0.00	0.01	0.00
6.05	2.00	0.00	0.00	0.01	0.00	6.06	2.00	0.00	0.00	0.01	0.00
6.07	2.00	0.00	0.00	0.01	0.00	6.08	2.00	0.00	0.00	0.01	0.00
6.09	2.00	0.00	0.00	0.01	0.00	6.10	2.00	0.00	0.00	0.01	0.00
6.11	2.00	0.00	0.00	0.01	0.00	6.12	2.00	0.00	0.00	0.01	0.00
6.13	2.00	0.00	0.00	0.01	0.00	6.14	2.00	0.00	0.00	0.01	0.00
6.15	2.00	0.00	0.00	0.01	0.00	6.16	2.00	0.00	0.00	0.01	0.00
6.17	2.00	0.00	0.00	0.01	0.00	6.18	2.00	0.00	0.00	0.01	0.00
6.19	2.00	0.00	0.00	0.01	0.00	6.20	2.00	0.00	0.00	0.01	0.00
6.21	2.00	0.00	0.00	0.01	0.00	6.22	2.00	0.00	0.00	0.01	0.00
6.23	2.00	0.00	0.00	0.01	0.00	6.24	2.00	0.00	0.00	0.01	0.00
6.25	2.00	0.00	0.00	0.01	0.00	6.26	2.00	0.00	0.00	0.01	0.00
6.27	2.00	0.00	0.00	0.01	0.00	6.28	2.00	0.00	0.00	0.01	0.00
6.29	2.00	0.00	0.00	0.01	0.00	6.30	2.00	0.00	0.00	0.01	0.00
6.31	2.00	0.00	0.00	0.01	0.00	6.32	2.00	0.00	0.00	0.01	0.00
6.33	2.00	0.00	0.00	0.01	0.00	6.34	2.00	0.00	0.00	0.01	0.00
6.35	2.00	0.00	0.00	0.01	0.00	6.36	2.00	0.00	0.00	0.01	0.00
6.37	2.00	0.00	0.00	0.01	0.00	6.38	2.00	0.00	0.00	0.01	0.00
6.39	2.00	0.00	0.00	0.01	0.00	6.40	2.00	0.00	0.00	0.01	0.00
6.41	2.00	0.00	0.00	0.01	0.00	6.42	2.00	0.00	0.00	0.01	0.00
6.43	2.00	0.00	0.00	0.01	0.00	6.44	2.00	0.00	0.00	0.01	0.00
6.45	2.00	0.00	0.00	0.01	0.00	6.46	2.00	0.00	0.00	0.01	0.00
6.47	2.00	0.00	0.00	0.01	0.00	6.48	2.00	0.00	0.00	0.01	0.00
6.49	2.00	0.00	0.00	0.01	0.00	6.50	2.00	0.00	0.00	0.01	0.00
6.51	2.00	0.00	0.00	0.01	0.00	6.52	2.00	0.00	0.00	0.01	0.00
6.53	2.00	0.00	0.00	0.01	0.00	6.54	2.00	0.00	0.00	0.01	0.00
6.55	2.00	0.00	0.00	0.01	0.00	6.56	2.00	0.00	0.00	0.01	0.00
6.57	2.00	0.00	0.00	0.01	0.00	6.58	2.00	0.00	0.00	0.01	0.00
6.59	2.00	0.00	0.00	0.01	0.00	6.60	2.00	0.00	0.00	0.01	0.00
6.61	2.00	0.00	0.00	0.01	0.00	6.62	2.00	0.00	0.00	0.01	0.00
6.63	2.00	0.00	0.00	0.01	0.00	6.64	2.00	0.00	0.00	0.01	0.00
6.65	2.00	0.00	0.00	0.01	0.00	6.66	2.00	0.00	0.00	0.01	0.00
6.67	2.00	0.00	0.00	0.01	0.00	6.68	2.00	0.00	0.00	0.01	0.00
6.69	2.00	0.00	0.00	0.01	0.00	6.70	2.00	0.00	0.00	0.01	0.00
6.71	2.00	0.00	0.00	0.01	0.00	6.72	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.73	2.00	0.00	0.00	0.01	0.00	6.74	2.00	0.00	0.00	0.01	0.00
6.75	2.00	0.00	0.00	0.01	0.00	6.76	2.00	0.00	0.00	0.01	0.00
6.77	2.00	0.00	0.00	0.01	0.00	6.78	2.00	0.00	0.00	0.01	0.00
6.79	2.00	0.00	0.00	0.01	0.00	6.80	2.00	0.00	0.00	0.01	0.00
6.81	2.00	0.00	0.00	0.01	0.00	6.82	2.00	0.00	0.00	0.01	0.00
6.83	2.00	0.00	0.00	0.01	0.00	6.84	2.00	0.00	0.00	0.01	0.00
6.85	2.00	0.00	0.00	0.01	0.00	6.86	2.00	0.00	0.00	0.01	0.00
6.87	2.00	0.00	0.00	0.01	0.00	6.88	2.00	0.00	0.00	0.01	0.00
6.89	2.00	0.00	0.00	0.01	0.00	6.90	2.00	0.00	0.00	0.01	0.00
6.91	2.00	0.00	0.00	0.01	0.00	6.92	2.00	0.00	0.00	0.01	0.00
6.93	2.00	0.00	0.00	0.01	0.00	6.94	2.00	0.00	0.00	0.01	0.00
6.95	2.00	0.00	0.00	0.01	0.00	6.96	2.00	0.00	0.00	0.01	0.00
6.97	2.00	0.00	0.00	0.01	0.00	6.98	2.00	0.00	0.00	0.01	0.00
6.99	2.00	0.00	0.00	0.01	0.00	7.00	2.00	0.00	0.00	0.01	0.00
7.01	2.00	0.00	0.00	0.01	0.00	7.02	2.00	0.00	0.00	0.01	0.00
7.03	2.00	0.00	0.00	0.01	0.00	7.04	2.00	0.00	0.00	0.01	0.00
7.05	2.00	0.00	0.00	0.01	0.00	7.06	2.00	0.00	0.00	0.01	0.00
7.07	2.00	0.00	0.00	0.01	0.00	7.08	2.00	0.00	0.00	0.01	0.00
7.09	2.00	0.00	0.00	0.01	0.00	7.10	2.00	0.00	0.00	0.01	0.00
7.11	2.00	0.00	0.00	0.01	0.00	7.12	2.00	0.00	0.00	0.01	0.00
7.13	2.00	0.00	0.00	0.01	0.00	7.14	2.00	0.00	0.00	0.01	0.00
7.15	2.00	0.00	0.00	0.01	0.00	7.16	2.00	0.00	0.00	0.01	0.00
7.17	2.00	0.00	0.00	0.01	0.00	7.18	2.00	0.00	0.00	0.01	0.00
7.19	2.00	0.00	0.00	0.01	0.00	7.20	2.00	0.00	0.00	0.01	0.00
7.21	2.00	0.00	0.00	0.01	0.00	7.22	2.00	0.00	0.00	0.01	0.00
7.23	2.00	0.00	0.00	0.01	0.00	7.24	2.00	0.00	0.00	0.01	0.00
7.25	2.00	0.00	0.00	0.01	0.00	7.26	2.00	0.00	0.00	0.01	0.00
7.27	2.00	0.00	0.00	0.01	0.00	7.28	2.00	0.00	0.00	0.01	0.00
7.29	2.00	0.00	0.00	0.01	0.00	7.30	2.00	0.00	0.00	0.01	0.00
7.31	2.00	0.00	0.00	0.01	0.00	7.32	2.00	0.00	0.00	0.01	0.00
7.33	2.00	0.00	0.00	0.01	0.00	7.34	2.00	0.00	0.00	0.01	0.00
7.35	2.00	0.00	0.00	0.01	0.00	7.36	2.00	0.00	0.00	0.01	0.00
7.37	2.00	0.00	0.00	0.01	0.00	7.38	2.00	0.00	0.00	0.01	0.00
7.39	2.00	0.00	0.00	0.01	0.00	7.40	2.00	0.00	0.00	0.01	0.00
7.41	2.00	0.00	0.00	0.01	0.00	7.42	2.00	0.00	0.00	0.01	0.00
7.43	2.00	0.00	0.00	0.01	0.00	7.44	2.00	0.00	0.00	0.01	0.00
7.45	2.00	0.00	0.00	0.01	0.00	7.46	2.00	0.00	0.00	0.01	0.00
7.47	2.00	0.00	0.00	0.01	0.00	7.48	2.00	0.00	0.00	0.01	0.00
7.49	2.00	0.00	0.00	0.01	0.00	7.50	2.00	0.00	0.00	0.01	0.00
7.51	2.00	0.00	0.00	0.01	0.00	7.52	2.00	0.00	0.00	0.01	0.00
7.53	2.00	0.00	0.00	0.01	0.00	7.54	2.00	0.00	0.00	0.01	0.00
7.55	2.00	0.00	0.00	0.01	0.00	7.56	2.00	0.00	0.00	0.01	0.00
7.57	2.00	0.00	0.00	0.01	0.00	7.58	2.00	0.00	0.00	0.01	0.00
7.59	2.00	0.00	0.00	0.01	0.00	7.60	2.00	0.00	0.00	0.01	0.00
7.61	2.00	0.00	0.00	0.01	0.00	7.62	2.00	0.00	0.00	0.01	0.00
7.63	2.00	0.00	0.00	0.01	0.00	7.64	2.00	0.00	0.00	0.01	0.00
7.65	2.00	0.00	0.00	0.01	0.00	7.66	2.00	0.00	0.00	0.01	0.00
7.67	2.00	0.00	0.00	0.01	0.00	7.68	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.69	2.00	0.00	0.00	0.01	0.00	7.70	2.00	0.00	0.00	0.01	0.00
7.71	2.00	0.00	0.00	0.01	0.00	7.72	2.00	0.00	0.00	0.01	0.00
7.73	2.00	0.00	0.00	0.01	0.00	7.74	2.00	0.00	0.00	0.01	0.00
7.75	2.00	0.00	0.00	0.01	0.00	7.76	2.00	0.00	0.00	0.01	0.00
7.77	2.00	0.00	0.00	0.01	0.00	7.78	2.00	0.00	0.00	0.01	0.00
7.79	2.00	0.00	0.00	0.01	0.00	7.80	2.00	0.00	0.00	0.01	0.00
7.81	2.00	0.00	0.00	0.01	0.00	7.82	2.00	0.00	0.00	0.01	0.00
7.83	2.00	0.00	0.00	0.01	0.00	7.84	2.00	0.00	0.00	0.01	0.00
7.85	2.00	0.00	0.00	0.01	0.00	7.86	2.00	0.00	0.00	0.01	0.00
7.87	2.00	0.00	0.00	0.01	0.00	7.88	2.00	0.00	0.00	0.01	0.00
7.89	2.00	0.00	0.00	0.01	0.00	7.90	2.00	0.00	0.00	0.01	0.00
7.91	2.00	0.00	0.00	0.01	0.00	7.92	2.00	0.00	0.00	0.01	0.00
7.93	2.00	0.00	0.00	0.01	0.00	7.94	2.00	0.00	0.00	0.01	0.00
7.95	2.00	0.00	0.00	0.01	0.00	7.96	2.00	0.00	0.00	0.01	0.00
7.97	2.00	0.00	0.00	0.01	0.00	7.98	2.00	0.00	0.00	0.01	0.00
7.99	2.00	0.00	0.00	0.01	0.00	8.00	2.00	0.00	0.00	0.01	0.00
8.01	2.00	0.00	0.00	0.01	0.00	8.02	2.00	0.00	0.00	0.01	0.00
8.03	2.00	0.00	0.00	0.01	0.00	8.04	2.00	0.00	0.00	0.01	0.00
8.05	2.00	0.00	0.00	0.01	0.00	8.06	2.00	0.00	0.00	0.01	0.00
8.07	2.00	0.00	0.00	0.01	0.00	8.08	2.00	0.00	0.00	0.01	0.00
8.09	2.00	0.00	0.00	0.01	0.00	8.10	2.00	0.00	0.00	0.01	0.00
8.11	2.00	0.00	0.00	0.01	0.00	8.12	2.00	0.00	0.00	0.01	0.00
8.13	2.00	0.00	0.00	0.01	0.00	8.14	2.00	0.00	0.00	0.01	0.00
8.15	2.00	0.00	0.00	0.01	0.00	8.16	2.00	0.00	0.00	0.01	0.00
8.17	2.00	0.00	0.00	0.01	0.00	8.18	2.00	0.00	0.00	0.01	0.00
8.19	2.00	0.00	0.00	0.01	0.00	8.20	2.00	0.00	0.00	0.01	0.00
8.21	2.00	0.00	0.00	0.01	0.00	8.22	2.00	0.00	0.00	0.01	0.00
8.23	2.00	0.00	0.00	0.01	0.00	8.24	2.00	0.00	0.00	0.01	0.00
8.25	2.00	0.00	0.00	0.01	0.00	8.26	2.00	0.00	0.00	0.01	0.00
8.27	2.00	0.00	0.00	0.01	0.00	8.28	2.00	0.00	0.00	0.01	0.00
8.29	2.00	0.00	0.00	0.01	0.00	8.30	2.00	0.00	0.00	0.01	0.00
8.31	2.00	0.00	0.00	0.01	0.00	8.32	2.00	0.00	0.00	0.01	0.00
8.33	2.00	0.00	0.00	0.01	0.00	8.34	2.00	0.00	0.00	0.01	0.00
8.35	2.00	0.00	0.00	0.01	0.00	8.36	2.00	0.00	0.00	0.01	0.00
8.37	2.00	0.00	0.00	0.01	0.00	8.38	2.00	0.00	0.00	0.01	0.00
8.39	2.00	0.00	0.00	0.01	0.00	8.40	2.00	0.00	0.00	0.01	0.00
8.41	2.00	0.00	0.00	0.01	0.00	8.42	2.00	0.00	0.00	0.01	0.00
8.43	2.00	0.00	0.00	0.01	0.00	8.44	2.00	0.00	0.00	0.01	0.00
8.45	2.00	0.00	0.00	0.01	0.00	8.46	2.00	0.00	0.00	0.01	0.00
8.47	2.00	0.00	0.00	0.01	0.00	8.48	2.00	0.00	0.00	0.01	0.00
8.49	2.00	0.00	0.00	0.01	0.00	8.50	2.00	0.00	0.00	0.01	0.00
8.51	2.00	0.00	0.00	0.01	0.00	8.52	2.00	0.00	0.00	0.01	0.00
8.53	2.00	0.00	0.00	0.01	0.00	8.54	2.00	0.00	0.00	0.01	0.00
8.55	2.00	0.00	0.00	0.01	0.00	8.56	2.00	0.00	0.00	0.01	0.00
8.57	2.00	0.00	0.00	0.01	0.00	8.58	2.00	0.00	0.00	0.01	0.00
8.59	2.00	0.00	0.00	0.01	0.00	8.60	2.00	0.00	0.00	0.01	0.00
8.61	2.00	0.00	0.00	0.01	0.00	8.62	2.00	0.00	0.00	0.01	0.00
8.63	2.00	0.00	0.00	0.01	0.00	8.64	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.65	2.00	0.00	0.00	0.01	0.00	8.66	2.00	0.00	0.00	0.01	0.00
8.67	2.00	0.00	0.00	0.01	0.00	8.68	2.00	0.00	0.00	0.01	0.00
8.69	2.00	0.00	0.00	0.01	0.00	8.70	2.00	0.00	0.00	0.01	0.00
8.71	2.00	0.00	0.00	0.01	0.00	8.72	2.00	0.00	0.00	0.01	0.00
8.73	2.00	0.00	0.00	0.01	0.00	8.74	2.00	0.00	0.00	0.01	0.00
8.75	2.00	0.00	0.00	0.01	0.00	8.76	2.00	0.00	0.00	0.01	0.00
8.77	2.00	0.00	0.00	0.01	0.00	8.78	2.00	0.00	0.00	0.01	0.00
8.79	2.00	0.00	0.00	0.01	0.00	8.80	2.00	0.00	0.00	0.01	0.00
8.81	2.00	0.00	0.00	0.01	0.00	8.82	2.00	0.00	0.00	0.01	0.00
8.83	2.00	0.00	0.00	0.01	0.00	8.84	2.00	0.00	0.00	0.01	0.00
8.85	2.00	0.00	0.00	0.01	0.00	8.86	2.00	0.00	0.00	0.01	0.00
8.87	2.00	0.00	0.00	0.01	0.00	8.88	2.00	0.00	0.00	0.01	0.00
8.89	2.00	0.00	0.00	0.01	0.00	8.90	2.00	0.00	0.00	0.01	0.00
8.91	2.00	0.00	0.00	0.01	0.00	8.92	2.00	0.00	0.00	0.01	0.00
8.93	2.00	0.00	0.00	0.01	0.00	8.94	2.00	0.00	0.00	0.01	0.00
8.95	2.00	0.00	0.00	0.01	0.00	8.96	2.00	0.00	0.00	0.01	0.00
8.97	2.00	0.00	0.00	0.01	0.00	8.98	2.00	0.00	0.00	0.01	0.00
8.99	2.00	0.00	0.00	0.01	0.00	9.00	2.00	0.00	0.00	0.01	0.00
9.01	2.00	0.00	0.00	0.01	0.00	9.02	2.00	0.00	0.00	0.01	0.00
9.03	2.00	0.00	0.00	0.01	0.00	9.04	2.00	0.00	0.00	0.01	0.00
9.05	2.00	0.00	0.00	0.01	0.00	9.06	2.00	0.00	0.00	0.01	0.00
9.07	2.00	0.00	0.00	0.01	0.00	9.08	2.00	0.00	0.00	0.01	0.00
9.09	2.00	0.00	0.00	0.01	0.00	9.10	2.00	0.00	0.00	0.01	0.00
9.11	2.00	0.00	0.00	0.01	0.00	9.12	2.00	0.00	0.00	0.01	0.00
9.13	2.00	0.00	0.00	0.01	0.00	9.14	2.00	0.00	0.00	0.01	0.00
9.15	2.00	0.00	0.00	0.01	0.00	9.16	2.00	0.00	0.00	0.01	0.00
9.17	2.00	0.00	0.00	0.01	0.00	9.18	2.00	0.00	0.00	0.01	0.00
9.19	2.00	0.00	0.00	0.01	0.00	9.20	2.00	0.00	0.00	0.01	0.00
9.21	2.00	0.00	0.00	0.01	0.00	9.22	2.00	0.00	0.00	0.01	0.00
9.23	2.00	0.00	0.00	0.01	0.00	9.24	2.00	0.00	0.00	0.01	0.00
9.25	2.00	0.00	0.00	0.01	0.00	9.26	2.00	0.00	0.00	0.01	0.00
9.27	2.00	0.00	0.00	0.01	0.00	9.28	2.00	0.00	0.00	0.01	0.00
9.29	2.00	0.00	0.00	0.01	0.00	9.30	2.00	0.00	0.00	0.01	0.00
9.31	2.00	0.00	0.00	0.01	0.00	9.32	2.00	0.00	0.00	0.01	0.00
9.33	2.00	0.00	0.00	0.01	0.00	9.34	2.00	0.00	0.00	0.01	0.00
9.35	2.00	0.00	0.00	0.01	0.00	9.36	2.00	0.00	0.00	0.01	0.00
9.37	2.00	0.00	0.00	0.01	0.00	9.38	2.00	0.00	0.00	0.01	0.00
9.39	2.00	0.00	0.00	0.01	0.00	9.40	2.00	0.00	0.00	0.01	0.00
9.41	2.00	0.00	0.00	0.01	0.00	9.42	2.00	0.00	0.00	0.01	0.00
9.43	2.00	0.00	0.00	0.01	0.00	9.44	2.00	0.00	0.00	0.01	0.00
9.45	2.00	0.00	0.00	0.01	0.00	9.46	2.00	0.00	0.00	0.01	0.00
9.47	2.00	0.00	0.00	0.01	0.00	9.48	2.00	0.00	0.00	0.01	0.00
9.49	2.00	0.00	0.00	0.01	0.00	9.50	2.00	0.00	0.00	0.01	0.00
9.51	2.00	0.00	0.00	0.01	0.00	9.52	2.00	0.00	0.00	0.01	0.00
9.53	2.00	0.00	0.00	0.01	0.00	9.54	2.00	0.00	0.00	0.01	0.00
9.55	2.00	0.00	0.00	0.01	0.00	9.56	2.00	0.00	0.00	0.01	0.00
9.57	2.00	0.00	0.00	0.01	0.00	9.58	2.00	0.00	0.00	0.01	0.00
9.59	2.00	0.00	0.00	0.01	0.00	9.60	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.61	2.00	0.00	0.00	0.01	0.00	9.62	2.00	0.00	0.00	0.01	0.00
9.63	2.00	0.00	0.00	0.01	0.00	9.64	2.00	0.00	0.00	0.01	0.00
9.65	2.00	0.00	0.00	0.01	0.00	9.66	2.00	0.00	0.00	0.01	0.00
9.67	2.00	0.00	0.00	0.01	0.00	9.68	2.00	0.00	0.00	0.01	0.00
9.69	2.00	0.00	0.00	0.01	0.00	9.70	2.00	0.00	0.00	0.01	0.00
9.71	2.00	0.00	0.00	0.01	0.00	9.72	2.00	0.00	0.00	0.01	0.00
9.73	2.00	0.00	0.00	0.01	0.00	9.74	2.00	0.00	0.00	0.01	0.00
9.75	2.00	0.00	0.00	0.01	0.00	9.76	2.00	0.00	0.00	0.01	0.00
9.77	2.00	0.00	0.00	0.01	0.00	9.78	2.00	0.00	0.00	0.01	0.00
9.79	2.00	0.00	0.00	0.01	0.00	9.80	2.00	0.00	0.00	0.01	0.00
9.81	2.00	0.00	0.00	0.01	0.00	9.82	2.00	0.00	0.00	0.01	0.00
9.83	2.00	0.00	0.00	0.01	0.00	9.84	2.00	0.00	0.00	0.01	0.00
9.85	2.00	0.00	0.00	0.01	0.00	9.86	2.00	0.00	0.00	0.01	0.00
9.87	2.00	0.00	0.00	0.01	0.00	9.88	2.00	0.00	0.00	0.01	0.00
9.89	2.00	0.00	0.00	0.01	0.00	9.90	2.00	0.00	0.00	0.01	0.00
9.91	2.00	0.00	0.00	0.01	0.00	9.92	2.00	0.00	0.00	0.01	0.00
9.93	2.00	0.00	0.00	0.01	0.00	9.94	2.00	0.00	0.00	0.01	0.00
9.95	2.00	0.00	0.00	0.01	0.00	9.96	2.00	0.00	0.00	0.01	0.00
9.97	2.00	0.00	0.00	0.01	0.00	9.98	2.00	0.00	0.00	0.01	0.00
9.99	2.00	0.00	0.00	0.01	0.00	10.00	2.00	0.00	0.00	0.01	0.00
10.01	2.00	0.00	0.00	0.01	0.00	10.02	2.00	0.00	0.00	0.01	0.00
10.03	2.00	0.00	0.00	0.01	0.00	10.04	2.00	0.00	0.00	0.01	0.00
10.05	2.00	0.00	0.00	0.01	0.00	10.06	2.00	0.00	0.00	0.01	0.00
10.07	2.00	0.00	0.00	0.01	0.00	10.08	2.00	0.00	0.00	0.01	0.00
10.09	2.00	0.00	0.00	0.01	0.00	10.10	2.00	0.00	0.00	0.01	0.00
10.11	2.00	0.00	0.00	0.01	0.00	10.12	2.00	0.00	0.00	0.01	0.00
10.13	2.00	0.00	0.00	0.01	0.00	10.14	2.00	0.00	0.00	0.01	0.00
10.15	2.00	0.00	0.00	0.01	0.00	10.16	2.00	0.00	0.00	0.01	0.00
10.17	2.00	0.00	0.00	0.01	0.00	10.18	2.00	0.00	0.00	0.01	0.00
10.19	2.00	0.00	0.00	0.01	0.00	10.20	2.00	0.00	0.00	0.01	0.00
10.21	2.00	0.00	0.00	0.01	0.00	10.22	2.00	0.00	0.00	0.01	0.00
10.23	2.00	0.00	0.00	0.01	0.00	10.24	2.00	0.00	0.00	0.01	0.00
10.25	2.00	0.00	0.00	0.01	0.00	10.26	2.00	0.00	0.00	0.01	0.00
10.27	2.00	0.00	0.00	0.01	0.00	10.28	2.00	0.00	0.00	0.01	0.00
10.29	2.00	0.00	0.00	0.01	0.00	10.30	2.00	0.00	0.00	0.01	0.00
10.31	2.00	0.00	0.00	0.01	0.00	10.32	2.00	0.00	0.00	0.01	0.00
10.33	2.00	0.00	0.00	0.01	0.00	10.34	2.00	0.00	0.00	0.01	0.00
10.35	2.00	0.00	0.00	0.01	0.00	10.36	2.00	0.00	0.00	0.01	0.00
10.37	2.00	0.00	0.00	0.01	0.00	10.38	2.00	0.00	0.00	0.01	0.00
10.39	2.00	0.00	0.00	0.01	0.00	10.40	2.00	0.00	0.00	0.01	0.00
10.41	2.00	0.00	0.00	0.01	0.00	10.42	2.00	0.00	0.00	0.01	0.00
10.43	2.00	0.00	0.00	0.01	0.00	10.44	2.00	0.00	0.00	0.01	0.00
10.45	2.00	0.00	0.00	0.01	0.00	10.46	2.00	0.00	0.00	0.01	0.00
10.47	2.00	0.00	0.00	0.01	0.00	10.48	2.00	0.00	0.00	0.01	0.00
10.49	2.00	0.00	0.00	0.01	0.00	10.50	2.00	0.00	0.00	0.01	0.00
10.51	2.00	0.00	0.00	0.01	0.00	10.52	2.00	0.00	0.00	0.01	0.00
10.53	2.00	0.00	0.00	0.01	0.00	10.54	2.00	0.00	0.00	0.01	0.00
10.55	2.00	0.00	0.00	0.01	0.00	10.56	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.57	2.00	0.00	0.00	0.01	0.00	10.58	2.00	0.00	0.00	0.01	0.00
10.59	2.00	0.00	0.00	0.01	0.00	10.60	2.00	0.00	0.00	0.01	0.00
10.61	2.00	0.00	0.00	0.01	0.00	10.62	2.00	0.00	0.00	0.01	0.00
10.63	2.00	0.00	0.00	0.01	0.00	10.64	2.00	0.00	0.00	0.01	0.00
10.65	2.00	0.00	0.00	0.01	0.00	10.66	2.00	0.00	0.00	0.01	0.00
10.67	2.00	0.00	0.00	0.01	0.00	10.68	2.00	0.00	0.00	0.01	0.00
10.69	2.00	0.00	0.00	0.01	0.00	10.70	2.00	0.00	0.00	0.01	0.00
10.71	2.00	0.00	0.00	0.01	0.00	10.72	2.00	0.00	0.00	0.01	0.00
10.73	2.00	0.00	0.00	0.01	0.00	10.74	2.00	0.00	0.00	0.01	0.00
10.75	2.00	0.00	0.00	0.01	0.00	10.76	2.00	0.00	0.00	0.01	0.00
10.77	2.00	0.00	0.00	0.01	0.00	10.78	2.00	0.00	0.00	0.01	0.00
10.79	2.00	0.00	0.00	0.01	0.00	10.80	2.00	0.00	0.00	0.01	0.00
10.81	2.00	0.00	0.00	0.01	0.00	10.82	2.00	0.00	0.00	0.01	0.00
10.83	2.00	0.00	0.00	0.01	0.00	10.84	2.00	0.00	0.00	0.01	0.00
10.85	2.00	0.00	0.00	0.01	0.00	10.86	2.00	0.00	0.00	0.01	0.00
10.87	2.00	0.00	0.00	0.01	0.00	10.88	2.00	0.00	0.00	0.01	0.00
10.89	2.00	0.00	0.00	0.01	0.00	10.90	2.00	0.00	0.00	0.01	0.00
10.91	2.00	0.00	0.00	0.01	0.00	10.92	2.00	0.00	0.00	0.01	0.00
10.93	2.00	0.00	0.00	0.01	0.00	10.94	2.00	0.00	0.00	0.01	0.00
10.95	2.00	0.00	0.00	0.01	0.00	10.96	2.00	0.00	0.00	0.01	0.00
10.97	2.00	0.00	0.00	0.01	0.00	10.98	2.00	0.00	0.00	0.01	0.00
10.99	2.00	0.00	0.00	0.01	0.00	11.00	2.00	0.00	0.00	0.01	0.00
11.01	2.00	0.00	0.00	0.01	0.00	11.02	2.00	0.00	0.00	0.01	0.00
11.03	2.00	0.00	0.00	0.01	0.00	11.04	2.00	0.00	0.00	0.01	0.00
11.05	2.00	0.00	0.00	0.01	0.00	11.06	2.00	0.00	0.00	0.01	0.00
11.07	2.00	0.00	0.00	0.01	0.00	11.08	2.00	0.00	0.00	0.01	0.00
11.09	2.00	0.00	0.00	0.01	0.00	11.10	2.00	0.00	0.00	0.01	0.00
11.11	2.00	0.00	0.00	0.01	0.00	11.12	2.00	0.00	0.00	0.01	0.00
11.13	2.00	0.00	0.00	0.01	0.00	11.14	2.00	0.00	0.00	0.01	0.00
11.15	2.00	0.00	0.00	0.01	0.00	11.16	2.00	0.00	0.00	0.01	0.00
11.17	2.00	0.00	0.00	0.01	0.00	11.18	2.00	0.00	0.00	0.01	0.00
11.19	2.00	0.00	0.00	0.01	0.00	11.20	2.00	0.00	0.00	0.01	0.00
11.21	2.00	0.00	0.00	0.01	0.00	11.22	2.00	0.00	0.00	0.01	0.00
11.23	2.00	0.00	0.00	0.01	0.00	11.24	2.00	0.00	0.00	0.01	0.00
11.25	2.00	0.00	0.00	0.01	0.00	11.26	2.00	0.00	0.00	0.01	0.00
11.27	2.00	0.00	0.00	0.01	0.00	11.28	2.00	0.00	0.00	0.01	0.00
11.29	2.00	0.00	0.00	0.01	0.00	11.30	2.00	0.00	0.00	0.01	0.00
11.31	2.00	0.00	0.00	0.01	0.00	11.32	2.00	0.00	0.00	0.01	0.00
11.33	2.00	0.00	0.00	0.01	0.00	11.34	2.00	0.00	0.00	0.01	0.00
11.35	2.00	0.00	0.00	0.01	0.00	11.36	2.00	0.00	0.00	0.01	0.00
11.37	2.00	0.00	0.00	0.01	0.00	11.38	2.00	0.00	0.00	0.01	0.00
11.39	2.00	0.00	0.00	0.01	0.00	11.40	2.00	0.00	0.00	0.01	0.00
11.41	2.00	0.00	0.00	0.01	0.00	11.42	2.00	0.00	0.00	0.01	0.00
11.43	2.00	0.00	0.00	0.01	0.00	11.44	2.00	0.00	0.00	0.01	0.00
11.45	2.00	0.00	0.00	0.01	0.00	11.46	2.00	0.00	0.00	0.01	0.00
11.47	2.00	0.00	0.00	0.01	0.00	11.48	2.00	0.00	0.00	0.01	0.00
11.49	2.00	0.00	0.00	0.01	0.00	11.50	2.00	0.00	0.00	0.01	0.00
11.51	2.00	0.00	0.00	0.01	0.00	11.52	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.53	2.00	0.00	0.00	0.01	0.00	11.54	2.00	0.00	0.00	0.01	0.00
11.55	2.00	0.00	0.00	0.01	0.00	11.56	2.00	0.00	0.00	0.01	0.00
11.57	2.00	0.00	0.00	0.01	0.00	11.58	2.00	0.00	0.00	0.01	0.00
11.59	2.00	0.00	0.00	0.01	0.00	11.60	2.00	0.00	0.00	0.01	0.00
11.61	2.00	0.00	0.00	0.01	0.00	11.62	2.00	0.00	0.00	0.01	0.00
11.63	2.00	0.00	0.00	0.01	0.00	11.64	2.00	0.00	0.00	0.01	0.00
11.65	2.00	0.00	0.00	0.01	0.00	11.66	2.00	0.00	0.00	0.01	0.00
11.67	2.00	0.00	0.00	0.01	0.00	11.68	2.00	0.00	0.00	0.01	0.00
11.69	2.00	0.00	0.00	0.01	0.00	11.70	2.00	0.00	0.00	0.01	0.00
11.71	2.00	0.00	0.00	0.01	0.00	11.72	2.00	0.00	0.00	0.01	0.00
11.73	2.00	0.00	0.00	0.01	0.00	11.74	2.00	0.00	0.00	0.01	0.00
11.75	2.00	0.00	0.00	0.01	0.00	11.76	2.00	0.00	0.00	0.01	0.00
11.77	2.00	0.00	0.00	0.01	0.00	11.78	2.00	0.00	0.00	0.01	0.00
11.79	2.00	0.00	0.00	0.01	0.00	11.80	2.00	0.00	0.00	0.01	0.00
11.81	2.00	0.00	0.00	0.01	0.00	11.82	2.00	0.00	0.00	0.01	0.00
11.83	2.00	0.00	0.00	0.01	0.00	11.84	2.00	0.00	0.00	0.01	0.00
11.85	2.00	0.00	0.00	0.01	0.00	11.86	2.00	0.00	0.00	0.01	0.00
11.87	2.00	0.00	0.00	0.01	0.00	11.88	2.00	0.00	0.00	0.01	0.00
11.89	2.00	0.00	0.00	0.01	0.00	11.90	2.00	0.00	0.00	0.01	0.00
11.91	2.00	0.00	0.00	0.01	0.00	11.92	2.00	0.00	0.00	0.01	0.00
11.93	2.00	0.00	0.00	0.01	0.00	11.94	2.00	0.00	0.00	0.01	0.00
11.95	2.00	0.00	0.00	0.01	0.00	11.96	2.00	0.00	0.00	0.01	0.00
11.97	2.00	0.00	0.00	0.01	0.00	11.98	2.00	0.00	0.00	0.01	0.00
11.99	2.00	0.00	0.00	0.01	0.00	12.00	2.00	0.00	0.00	0.01	0.00
12.01	2.00	0.00	0.00	0.01	0.00	12.02	2.00	0.00	0.00	0.01	0.00
12.03	2.00	0.00	0.00	0.01	0.00	12.04	2.00	0.00	0.00	0.01	0.00
12.05	2.00	0.00	0.00	0.01	0.00	12.06	2.00	0.00	0.00	0.01	0.00
12.07	2.00	0.00	0.00	0.01	0.00	12.08	2.00	0.00	0.00	0.01	0.00
12.09	2.00	0.00	0.00	0.01	0.00	12.10	2.00	0.00	0.00	0.01	0.00
12.11	2.00	0.00	0.00	0.01	0.00	12.12	2.00	0.00	0.00	0.01	0.00
12.13	2.00	0.00	0.00	0.01	0.00	12.14	2.00	0.00	0.00	0.01	0.00
12.15	2.00	0.00	0.00	0.01	0.00	12.16	2.00	0.00	0.00	0.01	0.00
12.17	2.00	0.00	0.00	0.01	0.00	12.18	2.00	0.00	0.00	0.01	0.00
12.19	2.00	0.00	0.00	0.01	0.00	12.20	2.00	0.00	0.00	0.01	0.00
12.21	2.00	0.00	0.00	0.01	0.00	12.22	2.00	0.00	0.00	0.01	0.00
12.23	2.00	0.00	0.00	0.01	0.00	12.24	2.00	0.00	0.00	0.01	0.00
12.25	2.00	0.00	0.00	0.01	0.00	12.26	2.00	0.00	0.00	0.01	0.00
12.27	2.00	0.00	0.00	0.01	0.00	12.28	2.00	0.00	0.00	0.01	0.00
12.29	2.00	0.00	0.00	0.01	0.00	12.30	2.00	0.00	0.00	0.01	0.00
12.31	2.00	0.00	0.00	0.01	0.00	12.32	2.00	0.00	0.00	0.01	0.00
12.33	2.00	0.00	0.00	0.01	0.00	12.34	2.00	0.00	0.00	0.01	0.00
12.35	2.00	0.00	0.00	0.01	0.00	12.36	2.00	0.00	0.00	0.01	0.00
12.37	2.00	0.00	0.00	0.01	0.00	12.38	2.00	0.00	0.00	0.01	0.00
12.39	2.00	0.00	0.00	0.01	0.00	12.40	2.00	0.00	0.00	0.01	0.00
12.41	2.00	0.00	0.00	0.01	0.00	12.42	2.00	0.00	0.00	0.01	0.00
12.43	2.00	0.00	0.00	0.01	0.00	12.44	2.00	0.00	0.00	0.01	0.00
12.45	2.00	0.00	0.00	0.01	0.00	12.46	2.00	0.00	0.00	0.01	0.00
12.47	2.00	0.00	0.00	0.01	0.00	12.48	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.49	2.00	0.00	0.00	0.01	0.00	12.50	2.00	0.00	0.00	0.01	0.00
12.51	2.00	0.00	0.00	0.01	0.00	12.52	2.00	0.00	0.00	0.01	0.00
12.53	2.00	0.00	0.00	0.01	0.00	12.54	2.00	0.00	0.00	0.01	0.00
12.55	2.00	0.00	0.00	0.01	0.00	12.56	2.00	0.00	0.00	0.01	0.00
12.57	2.00	0.00	0.00	0.01	0.00	12.58	2.00	0.00	0.00	0.01	0.00
12.59	2.00	0.00	0.00	0.01	0.00	12.60	2.00	0.00	0.00	0.01	0.00
12.61	2.00	0.00	0.00	0.01	0.00	12.62	2.00	0.00	0.00	0.01	0.00
12.63	2.00	0.00	0.00	0.01	0.00	12.64	2.00	0.00	0.00	0.01	0.00
12.65	2.00	0.00	0.00	0.01	0.00	12.66	2.00	0.00	0.00	0.01	0.00
12.67	2.00	0.00	0.00	0.01	0.00	12.68	2.00	0.00	0.00	0.01	0.00
12.69	2.00	0.00	0.00	0.01	0.00	12.70	2.00	0.00	0.00	0.01	0.00
12.71	2.00	0.00	0.00	0.01	0.00	12.72	2.00	0.00	0.00	0.01	0.00
12.73	2.00	0.00	0.00	0.01	0.00	12.74	2.00	0.00	0.00	0.01	0.00
12.75	2.00	0.00	0.00	0.01	0.00	12.76	2.00	0.00	0.00	0.01	0.00
12.77	2.00	0.00	0.00	0.01	0.00	12.78	2.00	0.00	0.00	0.01	0.00
12.79	2.00	0.00	0.00	0.01	0.00	12.80	2.00	0.00	0.00	0.01	0.00
12.81	2.00	0.00	0.00	0.01	0.00	12.82	2.00	0.00	0.00	0.01	0.00
12.83	2.00	0.00	0.00	0.01	0.00	12.84	2.00	0.00	0.00	0.01	0.00
12.85	2.00	0.00	0.00	0.01	0.00	12.86	2.00	0.00	0.00	0.01	0.00
12.87	2.00	0.00	0.00	0.01	0.00	12.88	2.00	0.00	0.00	0.01	0.00
12.89	2.00	0.00	0.00	0.01	0.00	12.90	2.00	0.00	0.00	0.01	0.00
12.91	2.00	0.00	0.00	0.01	0.00	12.92	2.00	0.00	0.00	0.01	0.00
12.93	2.00	0.00	0.00	0.01	0.00	12.94	2.00	0.00	0.00	0.01	0.00
12.95	2.00	0.00	0.00	0.01	0.00	12.96	2.00	0.00	0.00	0.01	0.00
12.97	2.00	0.00	0.00	0.01	0.00	12.98	2.00	0.00	0.00	0.01	0.00
12.99	2.00	0.00	0.00	0.01	0.00	13.00	2.00	0.00	0.00	0.01	0.00
13.01	2.00	0.00	0.00	0.01	0.00	13.02	2.00	0.00	0.00	0.01	0.00
13.03	2.00	0.00	0.00	0.01	0.00	13.04	2.00	0.00	0.00	0.01	0.00
13.05	2.00	0.00	0.00	0.01	0.00	13.06	2.00	0.00	0.00	0.01	0.00
13.07	2.00	0.00	0.00	0.01	0.00	13.08	2.00	0.00	0.00	0.01	0.00
13.09	2.00	0.00	0.00	0.01	0.00	13.10	2.00	0.00	0.00	0.01	0.00
13.11	2.00	0.00	0.00	0.01	0.00	13.12	2.00	0.00	0.00	0.01	0.00
13.13	2.00	0.00	0.00	0.01	0.00	13.14	2.00	0.00	0.00	0.01	0.00
13.15	2.00	0.00	0.00	0.01	0.00	13.16	2.00	0.00	0.00	0.01	0.00
13.17	2.00	0.00	0.00	0.01	0.00	13.18	2.00	0.00	0.00	0.01	0.00
13.19	2.00	0.00	0.00	0.01	0.00	13.20	2.00	0.00	0.00	0.01	0.00
13.21	2.00	0.00	0.00	0.01	0.00	13.22	2.00	0.00	0.00	0.01	0.00
13.23	2.00	0.00	0.00	0.01	0.00	13.24	2.00	0.00	0.00	0.01	0.00
13.25	2.00	0.00	0.00	0.01	0.00	13.26	2.00	0.00	0.00	0.01	0.00
13.27	2.00	0.00	0.00	0.01	0.00	13.28	2.00	0.00	0.00	0.01	0.00
13.29	2.00	0.00	0.00	0.01	0.00	13.30	2.00	0.00	0.00	0.01	0.00
13.31	2.00	0.00	0.00	0.01	0.00	13.32	2.00	0.00	0.00	0.01	0.00
13.33	2.00	0.00	0.00	0.01	0.00	13.34	2.00	0.00	0.00	0.01	0.00
13.35	2.00	0.00	0.00	0.01	0.00	13.36	2.00	0.00	0.00	0.01	0.00
13.37	2.00	0.00	0.00	0.01	0.00	13.38	2.00	0.00	0.00	0.01	0.00
13.39	2.00	0.00	0.00	0.01	0.00	13.40	2.00	0.00	0.00	0.01	0.00
13.41	2.00	0.00	0.00	0.01	0.00	13.42	2.00	0.00	0.00	0.01	0.00
13.43	2.00	0.00	0.00	0.01	0.00	13.44	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.45	2.00	0.00	0.00	0.01	0.00	13.46	2.00	0.00	0.00	0.01	0.00
13.47	2.00	0.00	0.00	0.01	0.00	13.48	2.00	0.00	0.00	0.01	0.00
13.49	2.00	0.00	0.00	0.01	0.00	13.50	2.00	0.00	0.00	0.01	0.00
13.51	2.00	0.00	0.00	0.01	0.00	13.52	2.00	0.00	0.00	0.01	0.00
13.53	2.00	0.00	0.00	0.01	0.00	13.54	2.00	0.00	0.00	0.01	0.00
13.55	2.00	0.00	0.00	0.01	0.00	13.56	2.00	0.00	0.00	0.01	0.00
13.57	2.00	0.00	0.00	0.01	0.00	13.58	2.00	0.00	0.00	0.01	0.00
13.59	2.00	0.00	0.00	0.01	0.00	13.60	2.00	0.00	0.00	0.01	0.00
13.61	2.00	0.00	0.00	0.01	0.00	13.62	2.00	0.00	0.00	0.01	0.00
13.63	2.00	0.00	0.00	0.01	0.00	13.64	2.00	0.00	0.00	0.01	0.00
13.65	2.00	0.00	0.00	0.01	0.00	13.66	2.00	0.00	0.00	0.01	0.00
13.67	2.00	0.00	0.00	0.01	0.00	13.68	2.00	0.00	0.00	0.01	0.00
13.69	2.00	0.00	0.00	0.01	0.00	13.70	2.00	0.00	0.00	0.01	0.00
13.71	2.00	0.00	0.00	0.01	0.00	13.72	2.00	0.00	0.00	0.01	0.00
13.73	2.00	0.00	0.00	0.01	0.00	13.74	2.00	0.00	0.00	0.01	0.00
13.75	2.00	0.00	0.00	0.01	0.00	13.76	2.00	0.00	0.00	0.01	0.00
13.77	2.00	0.00	0.00	0.01	0.00	13.78	2.00	0.00	0.00	0.01	0.00
13.79	2.00	0.00	0.00	0.01	0.00	13.80	2.00	0.00	0.00	0.01	0.00
13.81	2.00	0.00	0.00	0.01	0.00	13.82	2.00	0.00	0.00	0.01	0.00
13.83	2.00	0.00	0.00	0.01	0.00	13.84	2.00	0.00	0.00	0.01	0.00
13.85	2.00	0.00	0.00	0.01	0.00	13.86	2.00	0.00	0.00	0.01	0.00
13.87	2.00	0.00	0.00	0.01	0.00	13.88	2.00	0.00	0.00	0.01	0.00
13.89	2.00	0.00	0.00	0.01	0.00	13.90	2.00	0.00	0.00	0.01	0.00
13.91	2.00	0.00	0.00	0.01	0.00	13.92	2.00	0.00	0.00	0.01	0.00
13.93	2.00	0.00	0.00	0.01	0.00	13.94	2.00	0.00	0.00	0.01	0.00
13.95	2.00	0.00	0.00	0.01	0.00	13.96	2.00	0.00	0.00	0.01	0.00
13.97	2.00	0.00	0.00	0.01	0.00	13.98	2.00	0.00	0.00	0.01	0.00
13.99	2.00	0.00	0.00	0.01	0.00	14.00	2.00	0.00	0.00	0.01	0.00
14.01	2.00	0.00	0.00	0.01	0.00	14.02	2.00	0.00	0.00	0.01	0.00
14.03	2.00	0.00	0.00	0.01	0.00	14.04	2.00	0.00	0.00	0.01	0.00
14.05	2.00	0.00	0.00	0.01	0.00	14.06	2.00	0.00	0.00	0.01	0.00
14.07	2.00	0.00	0.00	0.01	0.00	14.08	2.00	0.00	0.00	0.01	0.00
14.09	2.00	0.00	0.00	0.01	0.00	14.10	2.00	0.00	0.00	0.01	0.00
14.11	2.00	0.00	0.00	0.01	0.00	14.12	2.00	0.00	0.00	0.01	0.00
14.13	2.00	0.00	0.00	0.01	0.00	14.14	2.00	0.00	0.00	0.01	0.00
14.15	2.00	0.00	0.00	0.01	0.00	14.16	2.00	0.00	0.00	0.01	0.00
14.17	2.00	0.00	0.00	0.01	0.00	14.18	2.00	0.00	0.00	0.01	0.00
14.19	2.00	0.00	0.00	0.01	0.00	14.20	2.00	0.00	0.00	0.01	0.00
14.21	2.00	0.00	0.00	0.01	0.00	14.22	2.00	0.00	0.00	0.01	0.00
14.23	2.00	0.00	0.00	0.01	0.00	14.24	2.00	0.00	0.00	0.01	0.00
14.25	2.00	0.00	0.00	0.01	0.00	14.26	2.00	0.00	0.00	0.01	0.00
14.27	2.00	0.00	0.00	0.01	0.00	14.28	2.00	0.00	0.00	0.01	0.00
14.29	2.00	0.00	0.00	0.01	0.00	14.30	2.00	0.00	0.00	0.01	0.00
14.31	2.00	0.00	0.00	0.01	0.00	14.32	2.00	0.00	0.00	0.01	0.00
14.33	2.00	0.00	0.00	0.01	0.00	14.34	2.00	0.00	0.00	0.01	0.00
14.35	2.00	0.00	0.00	0.01	0.00	14.36	2.00	0.00	0.00	0.01	0.00
14.37	2.00	0.00	0.00	0.01	0.00	14.38	2.00	0.00	0.00	0.01	0.00
14.39	2.00	0.00	0.00	0.01	0.00	14.40	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.41	2.00	0.00	0.00	0.01	0.00	14.42	2.00	0.00	0.00	0.01	0.00
14.43	2.00	0.00	0.00	0.01	0.00	14.44	2.00	0.00	0.00	0.01	0.00
14.45	2.00	0.00	0.00	0.01	0.00	14.46	2.00	0.00	0.00	0.01	0.00
14.47	2.00	0.00	0.00	0.01	0.00	14.48	2.00	0.00	0.00	0.01	0.00
14.49	2.00	0.00	0.00	0.01	0.00	14.50	2.00	0.00	0.00	0.01	0.00
14.51	2.00	0.00	0.00	0.01	0.00	14.52	2.00	0.00	0.00	0.01	0.00
14.53	2.00	0.00	0.00	0.01	0.00	14.54	2.00	0.00	0.00	0.01	0.00
14.55	2.00	0.00	0.00	0.01	0.00	14.56	2.00	0.00	0.00	0.01	0.00
14.57	2.00	0.00	0.00	0.01	0.00	14.58	2.00	0.00	0.00	0.01	0.00
14.59	2.00	0.00	0.00	0.01	0.00	14.60	2.00	0.00	0.00	0.01	0.00
14.61	2.00	0.00	0.00	0.01	0.00	14.62	2.00	0.00	0.00	0.01	0.00
14.63	2.00	0.00	0.00	0.01	0.00	14.64	2.00	0.00	0.00	0.01	0.00
14.65	2.00	0.00	0.00	0.01	0.00	14.66	2.00	0.00	0.00	0.01	0.00
14.67	2.00	0.00	0.00	0.01	0.00	14.68	2.00	0.00	0.00	0.01	0.00
14.69	2.00	0.00	0.00	0.01	0.00	14.70	2.00	0.00	0.00	0.01	0.00
14.71	2.00	0.00	0.00	0.01	0.00	14.72	2.00	0.00	0.00	0.01	0.00
14.73	2.00	0.00	0.00	0.01	0.00	14.74	2.00	0.00	0.00	0.01	0.00
14.75	2.00	0.00	0.00	0.01	0.00	14.76	2.00	0.00	0.00	0.01	0.00
14.77	2.00	0.00	0.00	0.01	0.00	14.78	2.00	0.00	0.00	0.01	0.00
14.79	2.00	0.00	0.00	0.01	0.00	14.80	2.00	0.00	0.00	0.01	0.00
14.81	2.00	0.00	0.00	0.01	0.00	14.82	2.00	0.00	0.00	0.01	0.00
14.83	2.00	0.00	0.00	0.01	0.00	14.84	2.00	0.00	0.00	0.01	0.00
14.85	2.00	0.00	0.00	0.01	0.00	14.86	2.00	0.00	0.00	0.01	0.00
14.87	2.00	0.00	0.00	0.01	0.00	14.88	2.00	0.00	0.00	0.01	0.00
14.89	2.00	0.00	0.00	0.01	0.00	14.90	2.00	0.00	0.00	0.01	0.00
14.91	2.00	0.00	0.00	0.01	0.00	14.92	2.00	0.00	0.00	0.01	0.00
14.93	2.00	0.00	0.00	0.01	0.00	14.94	2.00	0.00	0.00	0.01	0.00
14.95	2.00	0.00	0.00	0.01	0.00	14.96	2.00	0.00	0.00	0.01	0.00
14.97	2.00	0.00	0.00	0.01	0.00	14.98	2.00	0.00	0.00	0.01	0.00
14.99	2.00	0.00	0.00	0.01	0.00	15.00	2.00	0.00	0.00	0.01	0.00
15.01	2.00	0.00	0.00	0.01	0.00	15.02	2.00	0.00	0.00	0.01	0.00
15.03	2.00	0.00	0.00	0.01	0.00	15.04	2.00	0.00	0.00	0.01	0.00
15.05	2.00	0.00	0.00	0.01	0.00	15.06	2.00	0.00	0.00	0.01	0.00
15.07	2.00	0.00	0.00	0.01	0.00	15.08	2.00	0.00	0.00	0.01	0.00
15.09	2.00	0.00	0.00	0.01	0.00	15.10	2.00	0.00	0.00	0.01	0.00
15.11	2.00	0.00	0.00	0.01	0.00	15.12	2.00	0.00	0.00	0.01	0.00
15.13	2.00	0.00	0.00	0.01	0.00	15.14	2.00	0.00	0.00	0.01	0.00
15.15	2.00	0.00	0.00	0.01	0.00	15.16	2.00	0.00	0.00	0.01	0.00
15.17	2.00	0.00	0.00	0.01	0.00	15.18	2.00	0.00	0.00	0.01	0.00
15.19	2.00	0.00	0.00	0.01	0.00	15.20	2.00	0.00	0.00	0.01	0.00
15.21	2.00	0.00	0.00	0.01	0.00	15.22	2.00	0.00	0.00	0.01	0.00
15.23	2.00	0.00	0.00	0.01	0.00	15.24	2.00	0.00	0.00	0.01	0.00
15.25	2.00	0.00	0.00	0.01	0.00	15.26	2.00	0.00	0.00	0.01	0.00
15.27	2.00	0.00	0.00	0.01	0.00	15.28	2.00	0.00	0.00	0.01	0.00
15.29	2.00	0.00	0.00	0.01	0.00	15.30	2.00	0.00	0.00	0.01	0.00
15.31	2.00	0.00	0.00	0.01	0.00	15.32	2.00	0.00	0.00	0.01	0.00
15.33	2.00	0.00	0.00	0.01	0.00	15.34	2.00	0.00	0.00	0.01	0.00
15.35	2.00	0.00	0.00	0.01	0.00	15.36	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.37	2.00	0.00	0.00	0.01	0.00	15.38	2.00	0.00	0.00	0.01	0.00
15.39	2.00	0.00	0.00	0.01	0.00	15.40	2.00	0.00	0.00	0.01	0.00
15.41	2.00	0.00	0.00	0.01	0.00	15.42	2.00	0.00	0.00	0.01	0.00
15.43	2.00	0.00	0.00	0.01	0.00	15.44	2.00	0.00	0.00	0.01	0.00
15.45	2.00	0.00	0.00	0.01	0.00	15.46	2.00	0.00	0.00	0.01	0.00
15.47	2.00	0.00	0.00	0.01	0.00	15.48	2.00	0.00	0.00	0.01	0.00
15.49	2.00	0.00	0.00	0.01	0.00	15.50	2.00	0.00	0.00	0.01	0.00
15.51	2.00	0.00	0.00	0.01	0.00	15.52	2.00	0.00	0.00	0.01	0.00
15.53	2.00	0.00	0.00	0.01	0.00	15.54	2.00	0.00	0.00	0.01	0.00
15.55	2.00	0.00	0.00	0.01	0.00	15.56	2.00	0.00	0.00	0.01	0.00
15.57	2.00	0.00	0.00	0.01	0.00	15.58	2.00	0.00	0.00	0.01	0.00
15.59	2.00	0.00	0.00	0.01	0.00	15.60	2.00	0.00	0.00	0.01	0.00
15.61	2.00	0.00	0.00	0.01	0.00	15.62	2.00	0.00	0.00	0.01	0.00
15.63	2.00	0.00	0.00	0.01	0.00	15.64	2.00	0.00	0.00	0.01	0.00
15.65	2.00	0.00	0.00	0.01	0.00	15.66	2.00	0.00	0.00	0.01	0.00
15.67	2.00	0.00	0.00	0.01	0.00	15.68	2.00	0.00	0.00	0.01	0.00
15.69	2.00	0.00	0.00	0.01	0.00	15.70	2.00	0.00	0.00	0.01	0.00
15.71	2.00	0.00	0.00	0.01	0.00	15.72	2.00	0.00	0.00	0.01	0.00
15.73	2.00	0.00	0.00	0.01	0.00	15.74	2.00	0.00	0.00	0.01	0.00
15.75	2.00	0.00	0.00	0.01	0.00	15.76	2.00	0.00	0.00	0.01	0.00
15.77	2.00	0.00	0.00	0.01	0.00	15.78	2.00	0.00	0.00	0.01	0.00
15.79	2.00	0.00	0.00	0.01	0.00	15.80	2.00	0.00	0.00	0.01	0.00
15.81	2.00	0.00	0.00	0.01	0.00	15.82	2.00	0.00	0.00	0.01	0.00
15.83	2.00	0.00	0.00	0.01	0.00	15.84	2.00	0.00	0.00	0.01	0.00
15.85	2.00	0.00	0.00	0.01	0.00	15.86	2.00	0.00	0.00	0.01	0.00
15.87	2.00	0.00	0.00	0.01	0.00	15.88	2.00	0.00	0.00	0.01	0.00
15.89	2.00	0.00	0.00	0.01	0.00	15.90	2.00	0.00	0.00	0.01	0.00
15.91	2.00	0.00	0.00	0.01	0.00	15.92	2.00	0.00	0.00	0.01	0.00
15.93	2.00	0.00	0.00	0.01	0.00	15.94	2.00	0.00	0.00	0.01	0.00
15.95	2.00	0.00	0.00	0.01	0.00	15.96	2.00	0.00	0.00	0.01	0.00
15.97	2.00	0.00	0.00	0.01	0.00	15.98	2.00	0.00	0.00	0.01	0.00
15.99	2.00	0.00	0.00	0.01	0.00	16.00	2.00	0.00	0.00	0.01	0.00
16.01	2.00	0.00	0.00	0.01	0.00	16.02	2.00	0.00	0.00	0.01	0.00
16.03	2.00	0.00	0.00	0.01	0.00	16.04	2.00	0.00	0.00	0.01	0.00
16.05	2.00	0.00	0.00	0.01	0.00	16.06	2.00	0.00	0.00	0.01	0.00
16.07	2.00	0.00	0.00	0.01	0.00	16.08	2.00	0.00	0.00	0.01	0.00
16.09	2.00	0.00	0.00	0.01	0.00	16.10	2.00	0.00	0.00	0.01	0.00
16.11	2.00	0.00	0.00	0.01	0.00	16.12	2.00	0.00	0.00	0.01	0.00
16.13	2.00	0.00	0.00	0.01	0.00	16.14	2.00	0.00	0.00	0.01	0.00
16.15	2.00	0.00	0.00	0.01	0.00	16.16	2.00	0.00	0.00	0.01	0.00
16.17	2.00	0.00	0.00	0.01	0.00	16.18	2.00	0.00	0.00	0.01	0.00
16.19	2.00	0.00	0.00	0.01	0.00	16.20	2.00	0.00	0.00	0.01	0.00
16.21	2.00	0.00	0.00	0.01	0.00	16.22	2.00	0.00	0.00	0.01	0.00
16.23	2.00	0.00	0.00	0.01	0.00	16.24	2.00	0.00	0.00	0.01	0.00
16.25	2.00	0.00	0.00	0.01	0.00	16.26	2.00	0.00	0.00	0.01	0.00
16.27	2.00	0.00	0.00	0.01	0.00	16.28	2.00	0.00	0.00	0.01	0.00
16.29	2.00	0.00	0.00	0.01	0.00	16.30	2.00	0.00	0.00	0.01	0.00
16.31	2.00	0.00	0.00	0.01	0.00	16.32	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.33	2.00	0.00	0.00	0.01	0.00	16.34	2.00	0.00	0.00	0.01	0.00
16.35	2.00	0.00	0.00	0.01	0.00	16.36	2.00	0.00	0.00	0.01	0.00
16.37	2.00	0.00	0.00	0.01	0.00	16.38	2.00	0.00	0.00	0.01	0.00
16.39	2.00	0.00	0.00	0.01	0.00	16.40	2.00	0.00	0.00	0.01	0.00
16.41	2.00	0.00	0.00	0.01	0.00	16.42	2.00	0.00	0.00	0.01	0.00
16.43	2.00	0.00	0.00	0.01	0.00	16.44	2.00	0.00	0.00	0.01	0.00
16.45	2.00	0.00	0.00	0.01	0.00	16.46	2.00	0.00	0.00	0.01	0.00
16.47	2.00	0.00	0.00	0.01	0.00	16.48	2.00	0.00	0.00	0.01	0.00
16.49	2.00	0.00	0.00	0.01	0.00	16.50	2.00	0.00	0.00	0.01	0.00
16.51	2.00	0.00	0.00	0.01	0.00	16.52	2.00	0.00	0.00	0.01	0.00
16.53	2.00	0.00	0.00	0.01	0.00	16.54	2.00	0.00	0.00	0.01	0.00
16.55	2.00	0.00	0.00	0.01	0.00	16.56	2.00	0.00	0.00	0.01	0.00
16.57	2.00	0.00	0.00	0.01	0.00	16.58	2.00	0.00	0.00	0.01	0.00
16.59	2.00	0.00	0.00	0.01	0.00	16.60	2.00	0.00	0.00	0.01	0.00
16.61	2.00	0.00	0.00	0.01	0.00	16.62	2.00	0.00	0.00	0.01	0.00
16.63	2.00	0.00	0.00	0.01	0.00	16.64	2.00	0.00	0.00	0.01	0.00
16.65	2.00	0.00	0.00	0.01	0.00	16.66	2.00	0.00	0.00	0.01	0.00
16.67	2.00	0.00	0.00	0.01	0.00	16.68	2.00	0.00	0.00	0.01	0.00
16.69	2.00	0.00	0.00	0.01	0.00	16.70	2.00	0.00	0.00	0.01	0.00
16.71	2.00	0.00	0.00	0.01	0.00	16.72	2.00	0.00	0.00	0.01	0.00
16.73	2.00	0.00	0.00	0.01	0.00	16.74	2.00	0.00	0.00	0.01	0.00
16.75	2.00	0.00	0.00	0.01	0.00	16.76	2.00	0.00	0.00	0.01	0.00
16.77	2.00	0.00	0.00	0.01	0.00	16.78	2.00	0.00	0.00	0.01	0.00
16.79	2.00	0.00	0.00	0.01	0.00	16.80	2.00	0.00	0.00	0.01	0.00
16.81	2.00	0.00	0.00	0.01	0.00	16.82	2.00	0.00	0.00	0.01	0.00
16.83	2.00	0.00	0.00	0.01	0.00	16.84	2.00	0.00	0.00	0.01	0.00
16.85	2.00	0.00	0.00	0.01	0.00	16.86	2.00	0.00	0.00	0.01	0.00
16.87	2.00	0.00	0.00	0.01	0.00	16.88	2.00	0.00	0.00	0.01	0.00
16.89	2.00	0.00	0.00	0.01	0.00	16.90	2.00	0.00	0.00	0.01	0.00
16.91	2.00	0.00	0.00	0.01	0.00	16.92	2.00	0.00	0.00	0.01	0.00
16.93	2.00	0.00	0.00	0.01	0.00	16.94	2.00	0.00	0.00	0.01	0.00
16.95	2.00	0.00	0.00	0.01	0.00	16.96	2.00	0.00	0.00	0.01	0.00
16.97	2.00	0.00	0.00	0.01	0.00	16.98	2.00	0.00	0.00	0.01	0.00
16.99	2.00	0.00	0.00	0.01	0.00	17.00	2.00	0.00	0.00	0.01	0.00
17.01	2.00	0.00	0.00	0.01	0.00	17.02	2.00	0.00	0.00	0.01	0.00
17.03	2.00	0.00	0.00	0.01	0.00	17.04	2.00	0.00	0.00	0.01	0.00
17.05	2.00	0.00	0.00	0.01	0.00	17.06	2.00	0.00	0.00	0.01	0.00
17.07	2.00	0.00	0.00	0.01	0.00	17.08	2.00	0.00	0.00	0.01	0.00
17.09	2.00	0.00	0.00	0.01	0.00	17.10	2.00	0.00	0.00	0.01	0.00
17.11	2.00	0.00	0.00	0.01	0.00	17.12	2.00	0.00	0.00	0.01	0.00
17.13	2.00	0.00	0.00	0.01	0.00	17.14	2.00	0.00	0.00	0.01	0.00
17.15	2.00	0.00	0.00	0.01	0.00	17.16	2.00	0.00	0.00	0.01	0.00
17.17	2.00	0.00	0.00	0.01	0.00	17.18	2.00	0.00	0.00	0.01	0.00
17.19	2.00	0.00	0.00	0.01	0.00	17.20	2.00	0.00	0.00	0.01	0.00
17.21	2.00	0.00	0.00	0.01	0.00	17.22	2.00	0.00	0.00	0.01	0.00
17.23	2.00	0.00	0.00	0.01	0.00	17.24	2.00	0.00	0.00	0.01	0.00
17.25	2.00	0.00	0.00	0.01	0.00	17.26	2.00	0.00	0.00	0.01	0.00
17.27	2.00	0.00	0.00	0.01	0.00	17.28	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
17.29	2.00	0.00	0.00	0.01	0.00	17.30	2.00	0.00	0.00	0.01	0.00
17.31	2.00	0.00	0.00	0.01	0.00	17.32	2.00	0.00	0.00	0.01	0.00
17.33	2.00	0.00	0.00	0.01	0.00	17.34	2.00	0.00	0.00	0.01	0.00
17.35	2.00	0.00	0.00	0.01	0.00	17.36	2.00	0.00	0.00	0.01	0.00
17.37	2.00	0.00	0.00	0.01	0.00	17.38	2.00	0.00	0.00	0.01	0.00
17.39	2.00	0.00	0.00	0.01	0.00	17.40	2.00	0.00	0.00	0.01	0.00
17.41	2.00	0.00	0.00	0.01	0.00	17.42	2.00	0.00	0.00	0.01	0.00
17.43	2.00	0.00	0.00	0.01	0.00	17.44	2.00	0.00	0.00	0.01	0.00
17.45	2.00	0.00	0.00	0.01	0.00	17.46	2.00	0.00	0.00	0.01	0.00
17.47	2.00	0.00	0.00	0.01	0.00	17.48	2.00	0.00	0.00	0.01	0.00
17.49	2.00	0.00	0.00	0.01	0.00	17.50	2.00	0.00	0.00	0.01	0.00
17.51	2.00	0.00	0.00	0.01	0.00	17.52	2.00	0.00	0.00	0.01	0.00
17.53	2.00	0.00	0.00	0.01	0.00	17.54	2.00	0.00	0.00	0.01	0.00
17.55	2.00	0.00	0.00	0.01	0.00	17.56	2.00	0.00	0.00	0.01	0.00
17.57	2.00	0.00	0.00	0.01	0.00	17.58	2.00	0.00	0.00	0.01	0.00
17.59	2.00	0.00	0.00	0.01	0.00	17.60	2.00	0.00	0.00	0.01	0.00
17.61	2.00	0.00	0.00	0.01	0.00	17.62	2.00	0.00	0.00	0.01	0.00
17.63	2.00	0.00	0.00	0.01	0.00	17.64	2.00	0.00	0.00	0.01	0.00
17.65	2.00	0.00	0.00	0.01	0.00	17.66	2.00	0.00	0.00	0.01	0.00
17.67	2.00	0.00	0.00	0.01	0.00	17.68	2.00	0.00	0.00	0.01	0.00
17.69	2.00	0.00	0.00	0.01	0.00	17.70	2.00	0.00	0.00	0.01	0.00
17.71	2.00	0.00	0.00	0.01	0.00	17.72	2.00	0.00	0.00	0.01	0.00
17.73	2.00	0.00	0.00	0.01	0.00	17.74	2.00	0.00	0.00	0.01	0.00
17.75	2.00	0.00	0.00	0.01	0.00	17.76	2.00	0.00	0.00	0.01	0.00
17.77	2.00	0.00	0.00	0.01	0.00	17.78	2.00	0.00	0.00	0.01	0.00
17.79	2.00	0.00	0.00	0.01	0.00	17.80	2.00	0.00	0.00	0.01	0.00
17.81	2.00	0.00	0.00	0.01	0.00	17.82	2.00	0.00	0.00	0.01	0.00
17.83	2.00	0.00	0.00	0.01	0.00	17.84	2.00	0.00	0.00	0.01	0.00
17.85	2.00	0.00	0.00	0.01	0.00	17.86	2.00	0.00	0.00	0.01	0.00
17.87	2.00	0.00	0.00	0.01	0.00	17.88	2.00	0.00	0.00	0.01	0.00
17.89	2.00	0.00	0.00	0.01	0.00	17.90	2.00	0.00	0.00	0.01	0.00
17.91	2.00	0.00	0.00	0.01	0.00	17.92	2.00	0.00	0.00	0.01	0.00
17.93	2.00	0.00	0.00	0.01	0.00	17.94	2.00	0.00	0.00	0.01	0.00
17.95	2.00	0.00	0.00	0.01	0.00	17.96	2.00	0.00	0.00	0.01	0.00
17.97	2.00	0.00	0.00	0.01	0.00	17.98	2.00	0.00	0.00	0.01	0.00
17.99	2.00	0.00	0.00	0.01	0.00	18.00	2.00	0.00	0.00	0.01	0.00
18.01	2.00	0.00	0.00	0.01	0.00	18.02	2.00	0.00	0.00	0.01	0.00
18.03	2.00	0.00	0.00	0.01	0.00	18.04	2.00	0.00	0.00	0.01	0.00
18.05	2.00	0.00	0.00	0.01	0.00	18.06	2.00	0.00	0.00	0.01	0.00
18.07	2.00	0.00	0.00	0.01	0.00	18.08	2.00	0.00	0.00	0.01	0.00
18.09	2.00	0.00	0.00	0.01	0.00	18.10	2.00	0.00	0.00	0.01	0.00
18.11	2.00	0.00	0.00	0.01	0.00	18.12	2.00	0.00	0.00	0.01	0.00
18.13	2.00	0.00	0.00	0.01	0.00	18.14	2.00	0.00	0.00	0.01	0.00
18.15	2.00	0.00	0.00	0.01	0.00	18.16	2.00	0.00	0.00	0.01	0.00
18.17	2.00	0.00	0.00	0.01	0.00	18.18	2.00	0.00	0.00	0.01	0.00
18.19	2.00	0.00	0.00	0.01	0.00	18.20	2.00	0.00	0.00	0.01	0.00
18.21	2.00	0.00	0.00	0.01	0.00	18.22	2.00	0.00	0.00	0.01	0.00
18.23	2.00	0.00	0.00	0.01	0.00	18.24	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
18.25	2.00	0.00	0.00	0.01	0.00	18.26	2.00	0.00	0.00	0.01	0.00
18.27	2.00	0.00	0.00	0.01	0.00	18.28	2.00	0.00	0.00	0.01	0.00
18.29	2.00	0.00	0.00	0.01	0.00	18.30	2.00	0.00	0.00	0.01	0.00
18.31	2.00	0.00	0.00	0.01	0.00	18.32	2.00	0.00	0.00	0.01	0.00
18.33	2.00	0.00	0.00	0.01	0.00	18.34	2.00	0.00	0.00	0.01	0.00
18.35	2.00	0.00	0.00	0.01	0.00	18.36	2.00	0.00	0.00	0.01	0.00
18.37	2.00	0.00	0.00	0.01	0.00	18.38	2.00	0.00	0.00	0.01	0.00
18.39	2.00	0.00	0.00	0.01	0.00	18.40	2.00	0.00	0.00	0.01	0.00
18.41	2.00	0.00	0.00	0.01	0.00	18.42	2.00	0.00	0.00	0.01	0.00
18.43	2.00	0.00	0.00	0.01	0.00	18.44	2.00	0.00	0.00	0.01	0.00
18.45	2.00	0.00	0.00	0.01	0.00	18.46	2.00	0.00	0.00	0.01	0.00
18.47	2.00	0.00	0.00	0.01	0.00	18.48	2.00	0.00	0.00	0.01	0.00
18.49	2.00	0.00	0.00	0.01	0.00	18.50	2.00	0.00	0.00	0.01	0.00
18.51	2.00	0.00	0.00	0.01	0.00	18.52	2.00	0.00	0.00	0.01	0.00
18.53	2.00	0.00	0.00	0.01	0.00	18.54	2.00	0.00	0.00	0.01	0.00
18.55	2.00	0.00	0.00	0.01	0.00	18.56	2.00	0.00	0.00	0.01	0.00
18.57	2.00	0.00	0.00	0.01	0.00	18.58	2.00	0.00	0.00	0.01	0.00
18.59	2.00	0.00	0.00	0.01	0.00	18.60	2.00	0.00	0.00	0.01	0.00
18.61	2.00	0.00	0.00	0.01	0.00	18.62	2.00	0.00	0.00	0.01	0.00
18.63	2.00	0.00	0.00	0.01	0.00	18.64	2.00	0.00	0.00	0.01	0.00
18.65	2.00	0.00	0.00	0.01	0.00	18.66	2.00	0.00	0.00	0.01	0.00
18.67	2.00	0.00	0.00	0.01	0.00	18.68	2.00	0.00	0.00	0.01	0.00
18.69	2.00	0.00	0.00	0.01	0.00	18.70	2.00	0.00	0.00	0.01	0.00
18.71	2.00	0.00	0.00	0.01	0.00	18.72	2.00	0.00	0.00	0.01	0.00
18.73	2.00	0.00	0.00	0.01	0.00	18.74	2.00	0.00	0.00	0.01	0.00
18.75	2.00	0.00	0.00	0.01	0.00	18.76	2.00	0.00	0.00	0.01	0.00
18.77	2.00	0.00	0.00	0.01	0.00	18.78	2.00	0.00	0.00	0.01	0.00
18.79	2.00	0.00	0.00	0.01	0.00	18.80	2.00	0.00	0.00	0.01	0.00
18.81	2.00	0.00	0.00	0.01	0.00	18.82	2.00	0.00	0.00	0.01	0.00
18.83	2.00	0.00	0.00	0.01	0.00	18.84	2.00	0.00	0.00	0.01	0.00
18.85	2.00	0.00	0.00	0.01	0.00	18.86	2.00	0.00	0.00	0.01	0.00
18.87	2.00	0.00	0.00	0.01	0.00	18.88	2.00	0.00	0.00	0.01	0.00
18.89	2.00	0.00	0.00	0.01	0.00	18.90	2.00	0.00	0.00	0.01	0.00
18.91	2.00	0.00	0.00	0.01	0.00	18.92	2.00	0.00	0.00	0.01	0.00
18.93	2.00	0.00	0.00	0.01	0.00	18.94	2.00	0.00	0.00	0.01	0.00
18.95	2.00	0.00	0.00	0.01	0.00	18.96	2.00	0.00	0.00	0.01	0.00
18.97	2.00	0.00	0.00	0.01	0.00	18.98	2.00	0.00	0.00	0.01	0.00
18.99	2.00	0.00	0.00	0.01	0.00	19.00	2.00	0.00	0.00	0.01	0.00
19.01	2.00	0.00	0.00	0.01	0.00	19.02	2.00	0.00	0.00	0.01	0.00
19.03	2.00	0.00	0.00	0.01	0.00	19.04	2.00	0.00	0.00	0.01	0.00
19.05	2.00	0.00	0.00	0.01	0.00	19.06	2.00	0.00	0.00	0.01	0.00
19.07	2.00	0.00	0.00	0.01	0.00	19.08	2.00	0.00	0.00	0.01	0.00
19.09	2.00	0.00	0.00	0.01	0.00	19.10	2.00	0.00	0.00	0.01	0.00
19.11	2.00	0.00	0.00	0.01	0.00	19.12	2.00	0.00	0.00	0.01	0.00
19.13	2.00	0.00	0.00	0.01	0.00	19.14	2.00	0.00	0.00	0.01	0.00
19.15	2.00	0.00	0.00	0.01	0.00	19.16	2.00	0.00	0.00	0.01	0.00
19.17	2.00	0.00	0.00	0.01	0.00	19.18	2.00	0.00	0.00	0.01	0.00
19.19	2.00	0.00	0.00	0.01	0.00	19.20	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.21	2.00	0.00	0.00	0.01	0.00	19.22	2.00	0.00	0.00	0.01	0.00
19.23	2.00	0.00	0.00	0.01	0.00	19.24	2.00	0.00	0.00	0.01	0.00
19.25	2.00	0.00	0.00	0.01	0.00	19.26	2.00	0.00	0.00	0.01	0.00
19.27	2.00	0.00	0.00	0.01	0.00	19.28	2.00	0.00	0.00	0.01	0.00
19.29	2.00	0.00	0.00	0.01	0.00	19.30	2.00	0.00	0.00	0.01	0.00
19.31	2.00	0.00	0.00	0.01	0.00	19.32	2.00	0.00	0.00	0.01	0.00
19.33	2.00	0.00	0.00	0.01	0.00	19.34	2.00	0.00	0.00	0.01	0.00
19.35	2.00	0.00	0.00	0.01	0.00	19.36	2.00	0.00	0.00	0.01	0.00
19.37	2.00	0.00	0.00	0.01	0.00	19.38	2.00	0.00	0.00	0.01	0.00
19.39	2.00	0.00	0.00	0.01	0.00	19.40	2.00	0.00	0.00	0.01	0.00
19.41	2.00	0.00	0.00	0.01	0.00	19.42	2.00	0.00	0.00	0.01	0.00
19.43	2.00	0.00	0.00	0.01	0.00	19.44	2.00	0.00	0.00	0.01	0.00
19.45	2.00	0.00	0.00	0.01	0.00	19.46	2.00	0.00	0.00	0.01	0.00
19.47	2.00	0.00	0.00	0.01	0.00	19.48	2.00	0.00	0.00	0.01	0.00
19.49	2.00	0.00	0.00	0.01	0.00	19.50	2.00	0.00	0.00	0.01	0.00
19.51	2.00	0.00	0.00	0.01	0.00	19.52	2.00	0.00	0.00	0.01	0.00
19.53	2.00	0.00	0.00	0.01	0.00	19.54	2.00	0.00	0.00	0.01	0.00
19.55	2.00	0.00	0.00	0.01	0.00	19.56	2.00	0.00	0.00	0.01	0.00
19.57	2.00	0.00	0.00	0.01	0.00	19.58	2.00	0.00	0.00	0.01	0.00
19.59	2.00	0.00	0.00	0.01	0.00	19.60	2.00	0.00	0.00	0.01	0.00
19.61	2.00	0.00	0.00	0.01	0.00	19.62	2.00	0.00	0.00	0.01	0.00
19.63	2.00	0.00	0.00	0.01	0.00	19.64	2.00	0.00	0.00	0.01	0.00
19.65	2.00	0.00	0.00	0.01	0.00	19.66	2.00	0.00	0.00	0.01	0.00
19.67	2.00	0.00	0.00	0.01	0.00	19.68	2.00	0.00	0.00	0.01	0.00
19.69	2.00	0.00	0.00	0.01	0.00	19.70	2.00	0.00	0.00	0.01	0.00
19.71	2.00	0.00	0.00	0.01	0.00	19.72	2.00	0.00	0.00	0.01	0.00
19.73	2.00	0.00	0.00	0.01	0.00	19.74	2.00	0.00	0.00	0.01	0.00
19.75	2.00	0.00	0.00	0.01	0.00	19.76	2.00	0.00	0.00	0.01	0.00
19.77	2.00	0.00	0.00	0.01	0.00	19.78	2.00	0.00	0.00	0.01	0.00
19.79	2.00	0.00	0.00	0.01	0.00	19.80	2.00	0.00	0.00	0.01	0.00
19.81	2.00	0.00	0.00	0.01	0.00	19.82	2.00	0.00	0.00	0.01	0.00
19.83	2.00	0.00	0.00	0.01	0.00	19.84	2.00	0.00	0.00	0.01	0.00
19.85	2.00	0.00	0.00	0.01	0.00	19.86	2.00	0.00	0.00	0.01	0.00
19.87	2.00	0.00	0.00	0.01	0.00	19.88	2.00	0.00	0.00	0.01	0.00
19.89	2.00	0.00	0.00	0.01	0.00	19.90	2.00	0.00	0.00	0.01	0.00
19.91	2.00	0.00	0.00	0.01	0.00	19.92	2.00	0.00	0.00	0.01	0.00
19.93	2.00	0.00	0.00	0.01	0.00	19.94	2.00	0.00	0.00	0.01	0.00
19.95	2.00	0.00	0.00	0.01	0.00	19.96	2.00	0.00	0.00	0.01	0.00
19.97	2.00	0.00	0.00	0.01	0.00	19.98	2.00	0.00	0.00	0.01	0.00
19.99	2.00	0.00	0.00	0.01	0.00	20.00	2.00	0.00	0.00	0.01	0.00

Overall liquefaction potential: 0.03

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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Merarhias 56
http://www.geologismiki.gr

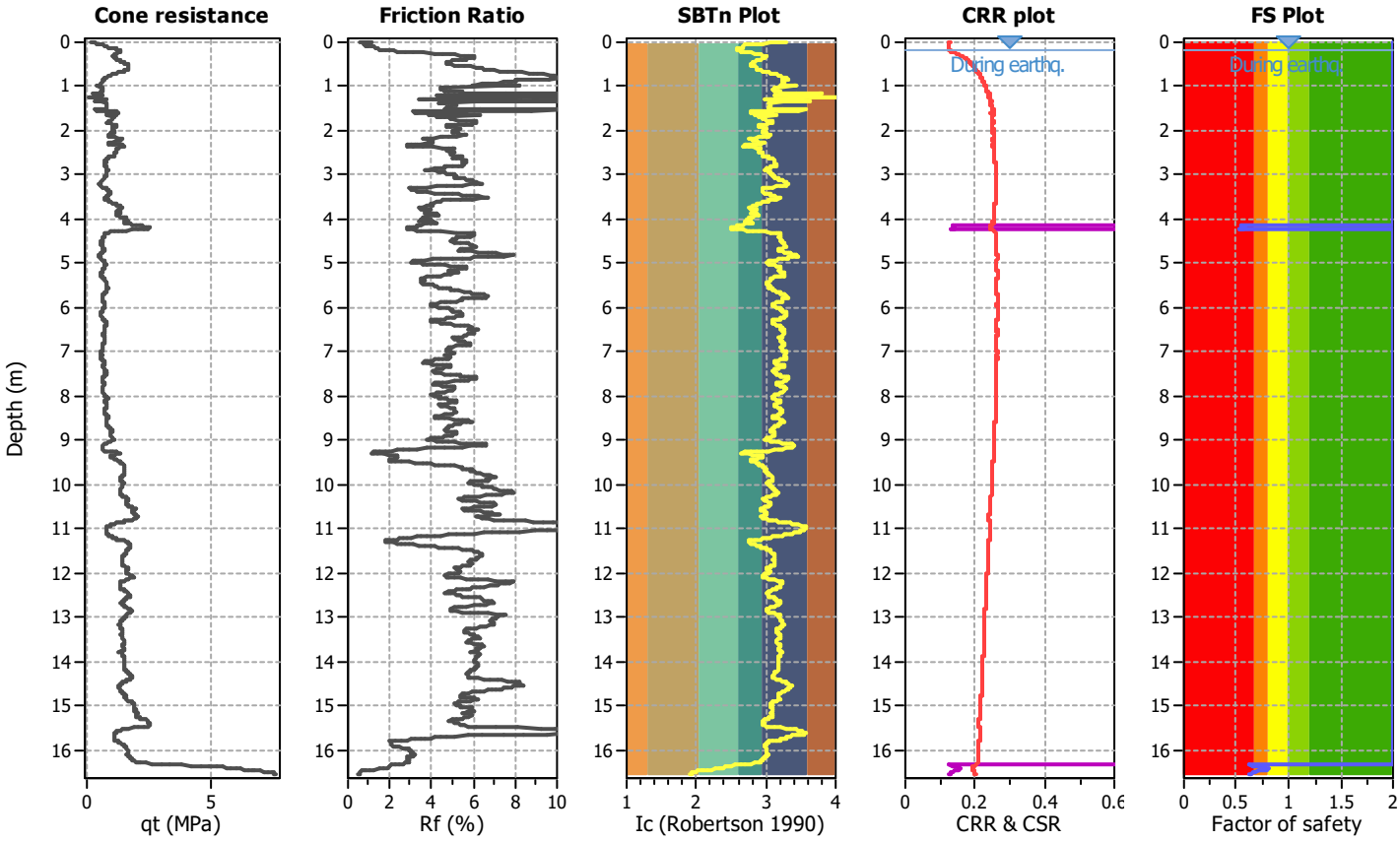
LIQUEFACTION ANALYSIS REPORT

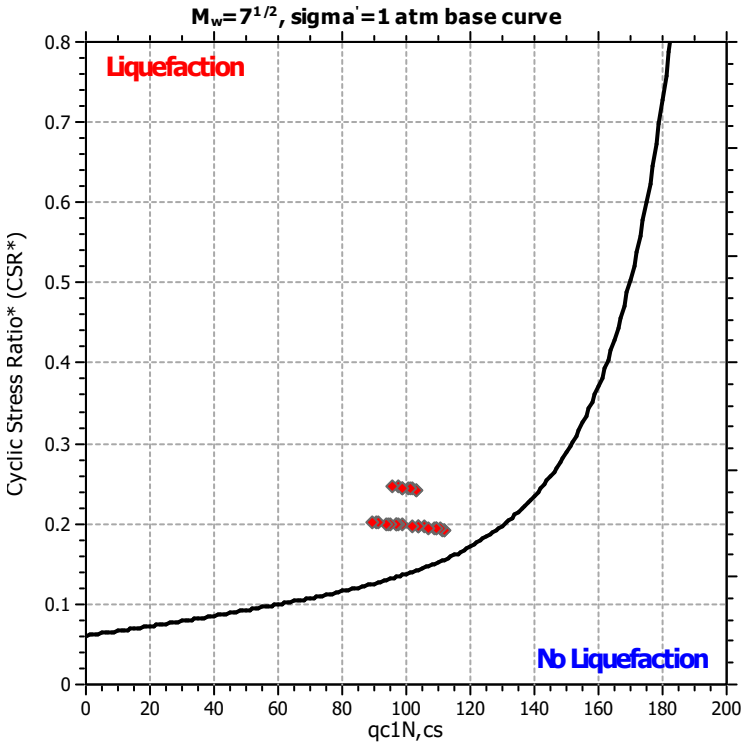
Project title : **Location :**

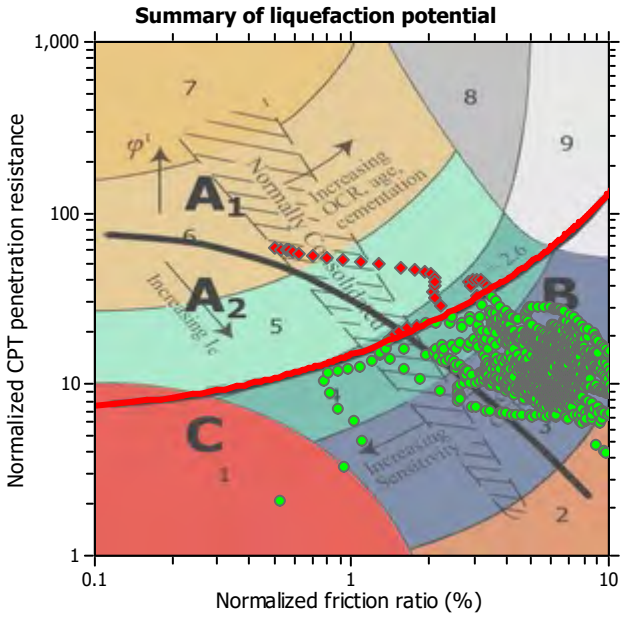
CPT file : SP003_01

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

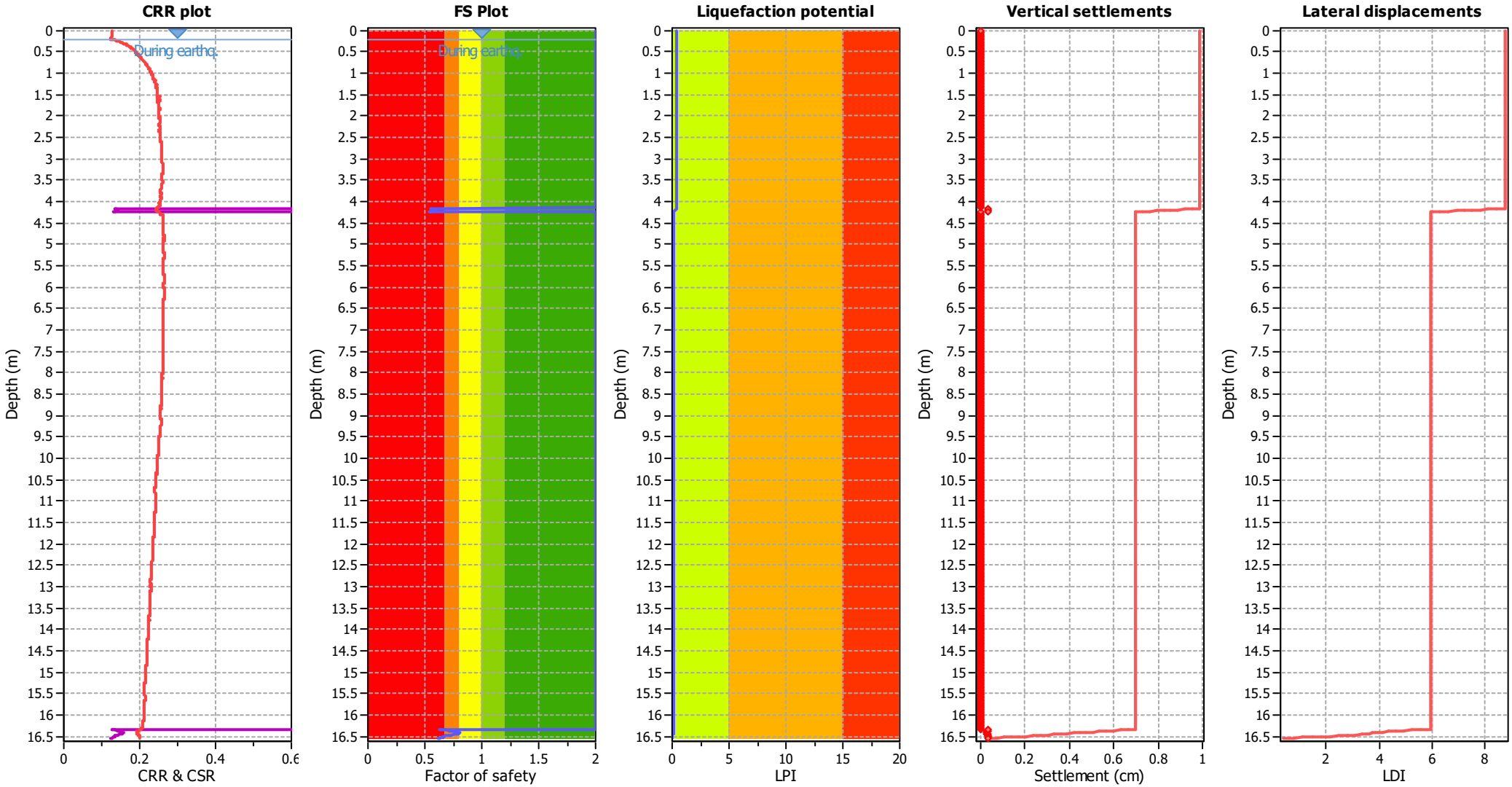






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.01	2.00	0.00	0.00	0.01	0.00	0.02	2.00	0.00	0.00	0.01	0.00
0.03	2.00	0.00	0.00	0.01	0.00	0.04	2.00	0.00	0.00	0.01	0.00
0.05	2.00	0.00	0.00	0.01	0.00	0.06	2.00	0.00	0.00	0.01	0.00
0.07	2.00	0.00	0.00	0.01	0.00	0.08	2.00	0.00	0.00	0.01	0.00
0.09	2.00	0.00	0.00	0.01	0.00	0.10	2.00	0.00	0.00	0.01	0.00
0.11	2.00	0.00	0.00	0.01	0.00	0.12	2.00	0.00	0.00	0.01	0.00
0.13	2.00	0.00	0.00	0.01	0.00	0.14	2.00	0.00	0.00	0.01	0.00
0.15	2.00	0.00	0.00	0.01	0.00	0.16	2.00	0.00	0.00	0.01	0.00
0.17	2.00	0.00	0.00	0.01	0.00	0.18	2.00	0.00	0.00	0.01	0.00
0.19	2.00	0.00	0.00	0.01	0.00	0.20	2.00	0.00	0.00	0.01	0.00
0.21	2.00	0.00	0.00	0.01	0.00	0.22	2.00	0.00	0.00	0.01	0.00
0.23	2.00	0.00	0.00	0.01	0.00	0.24	2.00	0.00	0.00	0.01	0.00
0.25	2.00	0.00	0.00	0.01	0.00	0.26	2.00	0.00	0.00	0.01	0.00
0.27	2.00	0.00	0.00	0.01	0.00	0.28	2.00	0.00	0.00	0.01	0.00
0.29	2.00	0.00	0.00	0.01	0.00	0.30	2.00	0.00	0.00	0.01	0.00
0.31	2.00	0.00	0.00	0.01	0.00	0.32	2.00	0.00	0.00	0.01	0.00
0.33	2.00	0.00	0.00	0.01	0.00	0.34	2.00	0.00	0.00	0.01	0.00
0.35	2.00	0.00	0.00	0.01	0.00	0.36	2.00	0.00	0.00	0.01	0.00
0.37	2.00	0.00	0.00	0.01	0.00	0.38	2.00	0.00	0.00	0.01	0.00
0.39	2.00	0.00	0.00	0.01	0.00	0.40	2.00	0.00	0.00	0.01	0.00
0.41	2.00	0.00	0.00	0.01	0.00	0.42	2.00	0.00	0.00	0.01	0.00
0.43	2.00	0.00	0.00	0.01	0.00	0.44	2.00	0.00	0.00	0.01	0.00
0.45	2.00	0.00	0.00	0.01	0.00	0.46	2.00	0.00	0.00	0.01	0.00
0.47	2.00	0.00	0.00	0.01	0.00	0.48	2.00	0.00	0.00	0.01	0.00
0.49	2.00	0.00	0.00	0.01	0.00	0.50	2.00	0.00	0.00	0.01	0.00
0.51	2.00	0.00	0.00	0.01	0.00	0.52	2.00	0.00	0.00	0.01	0.00
0.53	2.00	0.00	0.00	0.01	0.00	0.54	2.00	0.00	0.00	0.01	0.00
0.55	2.00	0.00	0.00	0.01	0.00	0.56	2.00	0.00	0.00	0.01	0.00
0.57	2.00	0.00	0.00	0.01	0.00	0.58	2.00	0.00	0.00	0.01	0.00
0.59	2.00	0.00	0.00	0.01	0.00	0.60	2.00	0.00	0.00	0.01	0.00
0.61	2.00	0.00	0.00	0.01	0.00	0.62	2.00	0.00	0.00	0.01	0.00
0.63	2.00	0.00	0.00	0.01	0.00	0.64	2.00	0.00	0.00	0.01	0.00
0.65	2.00	0.00	0.00	0.01	0.00	0.66	2.00	0.00	0.00	0.01	0.00
0.67	2.00	0.00	0.00	0.01	0.00	0.68	2.00	0.00	0.00	0.01	0.00
0.69	2.00	0.00	0.00	0.01	0.00	0.70	2.00	0.00	0.00	0.01	0.00
0.71	2.00	0.00	0.00	0.01	0.00	0.72	2.00	0.00	0.00	0.01	0.00
0.73	2.00	0.00	0.00	0.01	0.00	0.74	2.00	0.00	0.00	0.01	0.00
0.75	2.00	0.00	0.00	0.01	0.00	0.76	2.00	0.00	0.00	0.01	0.00
0.77	2.00	0.00	0.00	0.01	0.00	0.78	2.00	0.00	0.00	0.01	0.00
0.79	2.00	0.00	0.00	0.01	0.00	0.80	2.00	0.00	0.00	0.01	0.00
0.81	2.00	0.00	0.00	0.01	0.00	0.82	2.00	0.00	0.00	0.01	0.00
0.83	2.00	0.00	0.00	0.01	0.00	0.84	2.00	0.00	0.00	0.01	0.00
0.85	2.00	0.00	0.00	0.01	0.00	0.86	2.00	0.00	0.00	0.01	0.00
0.87	2.00	0.00	0.00	0.01	0.00	0.88	2.00	0.00	0.00	0.01	0.00
0.89	2.00	0.00	0.00	0.01	0.00	0.90	2.00	0.00	0.00	0.01	0.00
0.91	2.00	0.00	0.00	0.01	0.00	0.92	2.00	0.00	0.00	0.01	0.00
0.93	2.00	0.00	0.00	0.01	0.00	0.94	2.00	0.00	0.00	0.01	0.00
0.95	2.00	0.00	0.00	0.01	0.00	0.96	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.97	2.00	0.00	0.00	0.01	0.00	0.98	2.00	0.00	0.00	0.01	0.00
0.99	2.00	0.00	0.00	0.01	0.00	1.00	2.00	0.00	0.00	0.01	0.00
1.01	2.00	0.00	0.00	0.01	0.00	1.02	2.00	0.00	0.00	0.01	0.00
1.03	2.00	0.00	0.00	0.01	0.00	1.04	2.00	0.00	0.00	0.01	0.00
1.05	2.00	0.00	0.00	0.01	0.00	1.06	2.00	0.00	0.00	0.01	0.00
1.07	2.00	0.00	0.00	0.01	0.00	1.08	2.00	0.00	0.00	0.01	0.00
1.09	2.00	0.00	0.00	0.01	0.00	1.10	2.00	0.00	0.00	0.01	0.00
1.11	2.00	0.00	0.00	0.01	0.00	1.12	2.00	0.00	0.00	0.01	0.00
1.13	2.00	0.00	0.00	0.01	0.00	1.14	2.00	0.00	0.00	0.01	0.00
1.15	2.00	0.00	0.00	0.01	0.00	1.16	2.00	0.00	0.00	0.01	0.00
1.17	2.00	0.00	0.00	0.01	0.00	1.18	2.00	0.00	0.00	0.01	0.00
1.19	2.00	0.00	0.00	0.01	0.00	1.20	2.00	0.00	0.00	0.01	0.00
1.21	2.00	0.00	0.00	0.01	0.00	1.22	2.00	0.00	0.00	0.01	0.00
1.23	2.00	0.00	0.00	0.01	0.00	1.24	2.00	0.00	0.00	0.01	0.00
1.25	2.00	0.00	0.00	0.01	0.00	1.26	2.00	0.00	0.00	0.01	0.00
1.27	2.00	0.00	0.00	0.01	0.00	1.28	2.00	0.00	0.00	0.01	0.00
1.29	2.00	0.00	0.00	0.01	0.00	1.30	2.00	0.00	0.00	0.01	0.00
1.31	2.00	0.00	0.00	0.01	0.00	1.32	2.00	0.00	0.00	0.01	0.00
1.33	2.00	0.00	0.00	0.01	0.00	1.34	2.00	0.00	0.00	0.01	0.00
1.35	2.00	0.00	0.00	0.01	0.00	1.36	2.00	0.00	0.00	0.01	0.00
1.37	2.00	0.00	0.00	0.01	0.00	1.38	2.00	0.00	0.00	0.01	0.00
1.39	2.00	0.00	0.00	0.01	0.00	1.40	2.00	0.00	0.00	0.01	0.00
1.41	2.00	0.00	0.00	0.01	0.00	1.42	2.00	0.00	0.00	0.01	0.00
1.43	2.00	0.00	0.00	0.01	0.00	1.44	2.00	0.00	0.00	0.01	0.00
1.45	2.00	0.00	0.00	0.01	0.00	1.46	2.00	0.00	0.00	0.01	0.00
1.47	2.00	0.00	0.00	0.01	0.00	1.48	2.00	0.00	0.00	0.01	0.00
1.49	2.00	0.00	0.00	0.01	0.00	1.50	2.00	0.00	0.00	0.01	0.00
1.51	2.00	0.00	0.00	0.01	0.00	1.52	2.00	0.00	0.00	0.01	0.00
1.53	2.00	0.00	0.00	0.01	0.00	1.54	2.00	0.00	0.00	0.01	0.00
1.55	2.00	0.00	0.00	0.01	0.00	1.56	2.00	0.00	0.00	0.01	0.00
1.57	2.00	0.00	0.00	0.01	0.00	1.58	2.00	0.00	0.00	0.01	0.00
1.59	2.00	0.00	0.00	0.01	0.00	1.60	2.00	0.00	0.00	0.01	0.00
1.61	2.00	0.00	0.00	0.01	0.00	1.62	2.00	0.00	0.00	0.01	0.00
1.63	2.00	0.00	0.00	0.01	0.00	1.64	2.00	0.00	0.00	0.01	0.00
1.65	2.00	0.00	0.00	0.01	0.00	1.66	2.00	0.00	0.00	0.01	0.00
1.67	2.00	0.00	0.00	0.01	0.00	1.68	2.00	0.00	0.00	0.01	0.00
1.69	2.00	0.00	0.00	0.01	0.00	1.70	2.00	0.00	0.00	0.01	0.00
1.71	2.00	0.00	0.00	0.01	0.00	1.72	2.00	0.00	0.00	0.01	0.00
1.73	2.00	0.00	0.00	0.01	0.00	1.74	2.00	0.00	0.00	0.01	0.00
1.75	2.00	0.00	0.00	0.01	0.00	1.76	2.00	0.00	0.00	0.01	0.00
1.77	2.00	0.00	0.00	0.01	0.00	1.78	2.00	0.00	0.00	0.01	0.00
1.79	2.00	0.00	0.00	0.01	0.00	1.80	2.00	0.00	0.00	0.01	0.00
1.81	2.00	0.00	0.00	0.01	0.00	1.82	2.00	0.00	0.00	0.01	0.00
1.83	2.00	0.00	0.00	0.01	0.00	1.84	2.00	0.00	0.00	0.01	0.00
1.85	2.00	0.00	0.00	0.01	0.00	1.86	2.00	0.00	0.00	0.01	0.00
1.87	2.00	0.00	0.00	0.01	0.00	1.88	2.00	0.00	0.00	0.01	0.00
1.89	2.00	0.00	0.00	0.01	0.00	1.90	2.00	0.00	0.00	0.01	0.00
1.91	2.00	0.00	0.00	0.01	0.00	1.92	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.93	2.00	0.00	0.00	0.01	0.00	1.94	2.00	0.00	0.00	0.01	0.00
1.95	2.00	0.00	0.00	0.01	0.00	1.96	2.00	0.00	0.00	0.01	0.00
1.97	2.00	0.00	0.00	0.01	0.00	1.98	2.00	0.00	0.00	0.01	0.00
1.99	2.00	0.00	0.00	0.01	0.00	2.00	2.00	0.00	0.00	0.01	0.00
2.01	2.00	0.00	0.00	0.01	0.00	2.02	2.00	0.00	0.00	0.01	0.00
2.03	2.00	0.00	0.00	0.01	0.00	2.04	2.00	0.00	0.00	0.01	0.00
2.05	2.00	0.00	0.00	0.01	0.00	2.06	2.00	0.00	0.00	0.01	0.00
2.07	2.00	0.00	0.00	0.01	0.00	2.08	2.00	0.00	0.00	0.01	0.00
2.09	2.00	0.00	0.00	0.01	0.00	2.10	2.00	0.00	0.00	0.01	0.00
2.11	2.00	0.00	0.00	0.01	0.00	2.12	2.00	0.00	0.00	0.01	0.00
2.13	2.00	0.00	0.00	0.01	0.00	2.14	2.00	0.00	0.00	0.01	0.00
2.15	2.00	0.00	0.00	0.01	0.00	2.16	2.00	0.00	0.00	0.01	0.00
2.17	2.00	0.00	0.00	0.01	0.00	2.18	2.00	0.00	0.00	0.01	0.00
2.19	2.00	0.00	0.00	0.01	0.00	2.20	2.00	0.00	0.00	0.01	0.00
2.21	2.00	0.00	0.00	0.01	0.00	2.22	2.00	0.00	0.00	0.01	0.00
2.23	2.00	0.00	0.00	0.01	0.00	2.24	2.00	0.00	0.00	0.01	0.00
2.25	2.00	0.00	0.00	0.01	0.00	2.26	2.00	0.00	0.00	0.01	0.00
2.27	2.00	0.00	0.00	0.01	0.00	2.28	2.00	0.00	0.00	0.01	0.00
2.29	2.00	0.00	0.00	0.01	0.00	2.30	2.00	0.00	0.00	0.01	0.00
2.31	2.00	0.00	0.00	0.01	0.00	2.32	2.00	0.00	0.00	0.01	0.00
2.33	2.00	0.00	0.00	0.01	0.00	2.34	2.00	0.00	0.00	0.01	0.00
2.35	2.00	0.00	0.00	0.01	0.00	2.36	2.00	0.00	0.00	0.01	0.00
2.37	2.00	0.00	0.00	0.01	0.00	2.38	2.00	0.00	0.00	0.01	0.00
2.39	2.00	0.00	0.00	0.01	0.00	2.40	2.00	0.00	0.00	0.01	0.00
2.41	2.00	0.00	0.00	0.01	0.00	2.42	2.00	0.00	0.00	0.01	0.00
2.43	2.00	0.00	0.00	0.01	0.00	2.44	2.00	0.00	0.00	0.01	0.00
2.45	2.00	0.00	0.00	0.01	0.00	2.46	2.00	0.00	0.00	0.01	0.00
2.47	2.00	0.00	0.00	0.01	0.00	2.48	2.00	0.00	0.00	0.01	0.00
2.49	2.00	0.00	0.00	0.01	0.00	2.50	2.00	0.00	0.00	0.01	0.00
2.51	2.00	0.00	0.00	0.01	0.00	2.52	2.00	0.00	0.00	0.01	0.00
2.53	2.00	0.00	0.00	0.01	0.00	2.54	2.00	0.00	0.00	0.01	0.00
2.55	2.00	0.00	0.00	0.01	0.00	2.56	2.00	0.00	0.00	0.01	0.00
2.57	2.00	0.00	0.00	0.01	0.00	2.58	2.00	0.00	0.00	0.01	0.00
2.59	2.00	0.00	0.00	0.01	0.00	2.60	2.00	0.00	0.00	0.01	0.00
2.61	2.00	0.00	0.00	0.01	0.00	2.62	2.00	0.00	0.00	0.01	0.00
2.63	2.00	0.00	0.00	0.01	0.00	2.64	2.00	0.00	0.00	0.01	0.00
2.65	2.00	0.00	0.00	0.01	0.00	2.66	2.00	0.00	0.00	0.01	0.00
2.67	2.00	0.00	0.00	0.01	0.00	2.68	2.00	0.00	0.00	0.01	0.00
2.69	2.00	0.00	0.00	0.01	0.00	2.70	2.00	0.00	0.00	0.01	0.00
2.71	2.00	0.00	0.00	0.01	0.00	2.72	2.00	0.00	0.00	0.01	0.00
2.73	2.00	0.00	0.00	0.01	0.00	2.74	2.00	0.00	0.00	0.01	0.00
2.75	2.00	0.00	0.00	0.01	0.00	2.76	2.00	0.00	0.00	0.01	0.00
2.77	2.00	0.00	0.00	0.01	0.00	2.78	2.00	0.00	0.00	0.01	0.00
2.79	2.00	0.00	0.00	0.01	0.00	2.80	2.00	0.00	0.00	0.01	0.00
2.81	2.00	0.00	0.00	0.01	0.00	2.82	2.00	0.00	0.00	0.01	0.00
2.83	2.00	0.00	0.00	0.01	0.00	2.84	2.00	0.00	0.00	0.01	0.00
2.85	2.00	0.00	0.00	0.01	0.00	2.86	2.00	0.00	0.00	0.01	0.00
2.87	2.00	0.00	0.00	0.01	0.00	2.88	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.89	2.00	0.00	0.00	0.01	0.00	2.90	2.00	0.00	0.00	0.01	0.00
2.91	2.00	0.00	0.00	0.01	0.00	2.92	2.00	0.00	0.00	0.01	0.00
2.93	2.00	0.00	0.00	0.01	0.00	2.94	2.00	0.00	0.00	0.01	0.00
2.95	2.00	0.00	0.00	0.01	0.00	2.96	2.00	0.00	0.00	0.01	0.00
2.97	2.00	0.00	0.00	0.01	0.00	2.98	2.00	0.00	0.00	0.01	0.00
2.99	2.00	0.00	0.00	0.01	0.00	3.00	2.00	0.00	0.00	0.01	0.00
3.01	2.00	0.00	0.00	0.01	0.00	3.02	2.00	0.00	0.00	0.01	0.00
3.03	2.00	0.00	0.00	0.01	0.00	3.04	2.00	0.00	0.00	0.01	0.00
3.05	2.00	0.00	0.00	0.01	0.00	3.06	2.00	0.00	0.00	0.01	0.00
3.07	2.00	0.00	0.00	0.01	0.00	3.08	2.00	0.00	0.00	0.01	0.00
3.09	2.00	0.00	0.00	0.01	0.00	3.10	2.00	0.00	0.00	0.01	0.00
3.11	2.00	0.00	0.00	0.01	0.00	3.12	2.00	0.00	0.00	0.01	0.00
3.13	2.00	0.00	0.00	0.01	0.00	3.14	2.00	0.00	0.00	0.01	0.00
3.15	2.00	0.00	0.00	0.01	0.00	3.16	2.00	0.00	0.00	0.01	0.00
3.17	2.00	0.00	0.00	0.01	0.00	3.18	2.00	0.00	0.00	0.01	0.00
3.19	2.00	0.00	0.00	0.01	0.00	3.20	2.00	0.00	0.00	0.01	0.00
3.21	2.00	0.00	0.00	0.01	0.00	3.22	2.00	0.00	0.00	0.01	0.00
3.23	2.00	0.00	0.00	0.01	0.00	3.24	2.00	0.00	0.00	0.01	0.00
3.25	2.00	0.00	0.00	0.01	0.00	3.26	2.00	0.00	0.00	0.01	0.00
3.27	2.00	0.00	0.00	0.01	0.00	3.28	2.00	0.00	0.00	0.01	0.00
3.29	2.00	0.00	0.00	0.01	0.00	3.30	2.00	0.00	0.00	0.01	0.00
3.31	2.00	0.00	0.00	0.01	0.00	3.32	2.00	0.00	0.00	0.01	0.00
3.33	2.00	0.00	0.00	0.01	0.00	3.34	2.00	0.00	0.00	0.01	0.00
3.35	2.00	0.00	0.00	0.01	0.00	3.36	2.00	0.00	0.00	0.01	0.00
3.37	2.00	0.00	0.00	0.01	0.00	3.38	2.00	0.00	0.00	0.01	0.00
3.39	2.00	0.00	0.00	0.01	0.00	3.40	2.00	0.00	0.00	0.01	0.00
3.41	2.00	0.00	0.00	0.01	0.00	3.42	2.00	0.00	0.00	0.01	0.00
3.43	2.00	0.00	0.00	0.01	0.00	3.44	2.00	0.00	0.00	0.01	0.00
3.45	2.00	0.00	0.00	0.01	0.00	3.46	2.00	0.00	0.00	0.01	0.00
3.47	2.00	0.00	0.00	0.01	0.00	3.48	2.00	0.00	0.00	0.01	0.00
3.49	2.00	0.00	0.00	0.01	0.00	3.50	2.00	0.00	0.00	0.01	0.00
3.51	2.00	0.00	0.00	0.01	0.00	3.52	2.00	0.00	0.00	0.01	0.00
3.53	2.00	0.00	0.00	0.01	0.00	3.54	2.00	0.00	0.00	0.01	0.00
3.55	2.00	0.00	0.00	0.01	0.00	3.56	2.00	0.00	0.00	0.01	0.00
3.57	2.00	0.00	0.00	0.01	0.00	3.58	2.00	0.00	0.00	0.01	0.00
3.59	2.00	0.00	0.00	0.01	0.00	3.60	2.00	0.00	0.00	0.01	0.00
3.61	2.00	0.00	0.00	0.01	0.00	3.62	2.00	0.00	0.00	0.01	0.00
3.63	2.00	0.00	0.00	0.01	0.00	3.64	2.00	0.00	0.00	0.01	0.00
3.65	2.00	0.00	0.00	0.01	0.00	3.66	2.00	0.00	0.00	0.01	0.00
3.67	2.00	0.00	0.00	0.01	0.00	3.68	2.00	0.00	0.00	0.01	0.00
3.69	2.00	0.00	0.00	0.01	0.00	3.70	2.00	0.00	0.00	0.01	0.00
3.71	2.00	0.00	0.00	0.01	0.00	3.72	2.00	0.00	0.00	0.01	0.00
3.73	2.00	0.00	0.00	0.01	0.00	3.74	2.00	0.00	0.00	0.01	0.00
3.75	2.00	0.00	0.00	0.01	0.00	3.76	2.00	0.00	0.00	0.01	0.00
3.77	2.00	0.00	0.00	0.01	0.00	3.78	2.00	0.00	0.00	0.01	0.00
3.79	2.00	0.00	0.00	0.01	0.00	3.80	2.00	0.00	0.00	0.01	0.00
3.81	2.00	0.00	0.00	0.01	0.00	3.82	2.00	0.00	0.00	0.01	0.00
3.83	2.00	0.00	0.00	0.01	0.00	3.84	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.85	2.00	0.00	0.00	0.01	0.00	3.86	2.00	0.00	0.00	0.01	0.00
3.87	2.00	0.00	0.00	0.01	0.00	3.88	2.00	0.00	0.00	0.01	0.00
3.89	2.00	0.00	0.00	0.01	0.00	3.90	2.00	0.00	0.00	0.01	0.00
3.91	2.00	0.00	0.00	0.01	0.00	3.92	2.00	0.00	0.00	0.01	0.00
3.93	2.00	0.00	0.00	0.01	0.00	3.94	2.00	0.00	0.00	0.01	0.00
3.95	2.00	0.00	0.00	0.01	0.00	3.96	2.00	0.00	0.00	0.01	0.00
3.97	2.00	0.00	0.00	0.01	0.00	3.98	2.00	0.00	0.00	0.01	0.00
3.99	2.00	0.00	0.00	0.01	0.00	4.00	2.00	0.00	0.00	0.01	0.00
4.01	2.00	0.00	0.00	0.01	0.00	4.02	2.00	0.00	0.00	0.01	0.00
4.03	2.00	0.00	0.00	0.01	0.00	4.04	2.00	0.00	0.00	0.01	0.00
4.05	2.00	0.00	0.00	0.01	0.00	4.06	2.00	0.00	0.00	0.01	0.00
4.07	2.00	0.00	0.00	0.01	0.00	4.08	2.00	0.00	0.00	0.01	0.00
4.09	2.00	0.00	0.00	0.01	0.00	4.10	2.00	0.00	0.00	0.01	0.00
4.11	2.00	0.00	0.00	0.01	0.00	4.12	2.00	0.00	0.00	0.01	0.00
4.13	2.00	0.00	0.00	0.01	0.00	4.14	2.00	0.00	0.00	0.01	0.00
4.15	2.00	0.00	0.00	0.01	0.00	4.16	0.55	0.45	0.54	0.01	0.04
4.17	0.55	0.45	0.55	0.01	0.04	4.18	0.57	0.43	0.57	0.01	0.03
4.19	0.58	0.42	0.58	0.01	0.03	4.20	0.59	0.41	0.60	0.01	0.03
4.21	0.58	0.42	0.60	0.01	0.03	4.22	0.57	0.43	0.58	0.01	0.03
4.23	0.56	0.44	0.55	0.01	0.04	4.24	0.53	0.47	0.52	0.01	0.04
4.25	2.00	0.00	0.00	0.01	0.00	4.26	2.00	0.00	0.00	0.01	0.00
4.27	2.00	0.00	0.00	0.01	0.00	4.28	2.00	0.00	0.00	0.01	0.00
4.29	2.00	0.00	0.00	0.01	0.00	4.30	2.00	0.00	0.00	0.01	0.00
4.31	2.00	0.00	0.00	0.01	0.00	4.32	2.00	0.00	0.00	0.01	0.00
4.33	2.00	0.00	0.00	0.01	0.00	4.34	2.00	0.00	0.00	0.01	0.00
4.35	2.00	0.00	0.00	0.01	0.00	4.36	2.00	0.00	0.00	0.01	0.00
4.37	2.00	0.00	0.00	0.01	0.00	4.38	2.00	0.00	0.00	0.01	0.00
4.39	2.00	0.00	0.00	0.01	0.00	4.40	2.00	0.00	0.00	0.01	0.00
4.41	2.00	0.00	0.00	0.01	0.00	4.42	2.00	0.00	0.00	0.01	0.00
4.43	2.00	0.00	0.00	0.01	0.00	4.44	2.00	0.00	0.00	0.01	0.00
4.45	2.00	0.00	0.00	0.01	0.00	4.46	2.00	0.00	0.00	0.01	0.00
4.47	2.00	0.00	0.00	0.01	0.00	4.48	2.00	0.00	0.00	0.01	0.00
4.49	2.00	0.00	0.00	0.01	0.00	4.50	2.00	0.00	0.00	0.01	0.00
4.51	2.00	0.00	0.00	0.01	0.00	4.52	2.00	0.00	0.00	0.01	0.00
4.53	2.00	0.00	0.00	0.01	0.00	4.54	2.00	0.00	0.00	0.01	0.00
4.55	2.00	0.00	0.00	0.01	0.00	4.56	2.00	0.00	0.00	0.01	0.00
4.57	2.00	0.00	0.00	0.01	0.00	4.58	2.00	0.00	0.00	0.01	0.00
4.59	2.00	0.00	0.00	0.01	0.00	4.60	2.00	0.00	0.00	0.01	0.00
4.61	2.00	0.00	0.00	0.01	0.00	4.62	2.00	0.00	0.00	0.01	0.00
4.63	2.00	0.00	0.00	0.01	0.00	4.64	2.00	0.00	0.00	0.01	0.00
4.65	2.00	0.00	0.00	0.01	0.00	4.66	2.00	0.00	0.00	0.01	0.00
4.67	2.00	0.00	0.00	0.01	0.00	4.68	2.00	0.00	0.00	0.01	0.00
4.69	2.00	0.00	0.00	0.01	0.00	4.70	2.00	0.00	0.00	0.01	0.00
4.71	2.00	0.00	0.00	0.01	0.00	4.72	2.00	0.00	0.00	0.01	0.00
4.73	2.00	0.00	0.00	0.01	0.00	4.74	2.00	0.00	0.00	0.01	0.00
4.75	2.00	0.00	0.00	0.01	0.00	4.76	2.00	0.00	0.00	0.01	0.00
4.77	2.00	0.00	0.00	0.01	0.00	4.78	2.00	0.00	0.00	0.01	0.00
4.79	2.00	0.00	0.00	0.01	0.00	4.80	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.81	2.00	0.00	0.00	0.01	0.00	4.82	2.00	0.00	0.00	0.01	0.00
4.83	2.00	0.00	0.00	0.01	0.00	4.84	2.00	0.00	0.00	0.01	0.00
4.85	2.00	0.00	0.00	0.01	0.00	4.86	2.00	0.00	0.00	0.01	0.00
4.87	2.00	0.00	0.00	0.01	0.00	4.88	2.00	0.00	0.00	0.01	0.00
4.89	2.00	0.00	0.00	0.01	0.00	4.90	2.00	0.00	0.00	0.01	0.00
4.91	2.00	0.00	0.00	0.01	0.00	4.92	2.00	0.00	0.00	0.01	0.00
4.93	2.00	0.00	0.00	0.01	0.00	4.94	2.00	0.00	0.00	0.01	0.00
4.95	2.00	0.00	0.00	0.01	0.00	4.96	2.00	0.00	0.00	0.01	0.00
4.97	2.00	0.00	0.00	0.01	0.00	4.98	2.00	0.00	0.00	0.01	0.00
4.99	2.00	0.00	0.00	0.01	0.00	5.00	2.00	0.00	0.00	0.01	0.00
5.01	2.00	0.00	0.00	0.01	0.00	5.02	2.00	0.00	0.00	0.01	0.00
5.03	2.00	0.00	0.00	0.01	0.00	5.04	2.00	0.00	0.00	0.01	0.00
5.05	2.00	0.00	0.00	0.01	0.00	5.06	2.00	0.00	0.00	0.01	0.00
5.07	2.00	0.00	0.00	0.01	0.00	5.08	2.00	0.00	0.00	0.01	0.00
5.09	2.00	0.00	0.00	0.01	0.00	5.10	2.00	0.00	0.00	0.01	0.00
5.11	2.00	0.00	0.00	0.01	0.00	5.12	2.00	0.00	0.00	0.01	0.00
5.13	2.00	0.00	0.00	0.01	0.00	5.14	2.00	0.00	0.00	0.01	0.00
5.15	2.00	0.00	0.00	0.01	0.00	5.16	2.00	0.00	0.00	0.01	0.00
5.17	2.00	0.00	0.00	0.01	0.00	5.18	2.00	0.00	0.00	0.01	0.00
5.19	2.00	0.00	0.00	0.01	0.00	5.20	2.00	0.00	0.00	0.01	0.00
5.21	2.00	0.00	0.00	0.01	0.00	5.22	2.00	0.00	0.00	0.01	0.00
5.23	2.00	0.00	0.00	0.01	0.00	5.24	2.00	0.00	0.00	0.01	0.00
5.25	2.00	0.00	0.00	0.01	0.00	5.26	2.00	0.00	0.00	0.01	0.00
5.27	2.00	0.00	0.00	0.01	0.00	5.28	2.00	0.00	0.00	0.01	0.00
5.29	2.00	0.00	0.00	0.01	0.00	5.30	2.00	0.00	0.00	0.01	0.00
5.31	2.00	0.00	0.00	0.01	0.00	5.32	2.00	0.00	0.00	0.01	0.00
5.33	2.00	0.00	0.00	0.01	0.00	5.34	2.00	0.00	0.00	0.01	0.00
5.35	2.00	0.00	0.00	0.01	0.00	5.36	2.00	0.00	0.00	0.01	0.00
5.37	2.00	0.00	0.00	0.01	0.00	5.38	2.00	0.00	0.00	0.01	0.00
5.39	2.00	0.00	0.00	0.01	0.00	5.40	2.00	0.00	0.00	0.01	0.00
5.41	2.00	0.00	0.00	0.01	0.00	5.42	2.00	0.00	0.00	0.01	0.00
5.43	2.00	0.00	0.00	0.01	0.00	5.44	2.00	0.00	0.00	0.01	0.00
5.45	2.00	0.00	0.00	0.01	0.00	5.46	2.00	0.00	0.00	0.01	0.00
5.47	2.00	0.00	0.00	0.01	0.00	5.48	2.00	0.00	0.00	0.01	0.00
5.49	2.00	0.00	0.00	0.01	0.00	5.50	2.00	0.00	0.00	0.01	0.00
5.51	2.00	0.00	0.00	0.01	0.00	5.52	2.00	0.00	0.00	0.01	0.00
5.53	2.00	0.00	0.00	0.01	0.00	5.54	2.00	0.00	0.00	0.01	0.00
5.55	2.00	0.00	0.00	0.01	0.00	5.56	2.00	0.00	0.00	0.01	0.00
5.57	2.00	0.00	0.00	0.01	0.00	5.58	2.00	0.00	0.00	0.01	0.00
5.59	2.00	0.00	0.00	0.01	0.00	5.60	2.00	0.00	0.00	0.01	0.00
5.61	2.00	0.00	0.00	0.01	0.00	5.62	2.00	0.00	0.00	0.01	0.00
5.63	2.00	0.00	0.00	0.01	0.00	5.64	2.00	0.00	0.00	0.01	0.00
5.65	2.00	0.00	0.00	0.01	0.00	5.66	2.00	0.00	0.00	0.01	0.00
5.67	2.00	0.00	0.00	0.01	0.00	5.68	2.00	0.00	0.00	0.01	0.00
5.69	2.00	0.00	0.00	0.01	0.00	5.70	2.00	0.00	0.00	0.01	0.00
5.71	2.00	0.00	0.00	0.01	0.00	5.72	2.00	0.00	0.00	0.01	0.00
5.73	2.00	0.00	0.00	0.01	0.00	5.74	2.00	0.00	0.00	0.01	0.00
5.75	2.00	0.00	0.00	0.01	0.00	5.76	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.77	2.00	0.00	0.00	0.01	0.00	5.78	2.00	0.00	0.00	0.01	0.00
5.79	2.00	0.00	0.00	0.01	0.00	5.80	2.00	0.00	0.00	0.01	0.00
5.81	2.00	0.00	0.00	0.01	0.00	5.82	2.00	0.00	0.00	0.01	0.00
5.83	2.00	0.00	0.00	0.01	0.00	5.84	2.00	0.00	0.00	0.01	0.00
5.85	2.00	0.00	0.00	0.01	0.00	5.86	2.00	0.00	0.00	0.01	0.00
5.87	2.00	0.00	0.00	0.01	0.00	5.88	2.00	0.00	0.00	0.01	0.00
5.89	2.00	0.00	0.00	0.01	0.00	5.90	2.00	0.00	0.00	0.01	0.00
5.91	2.00	0.00	0.00	0.01	0.00	5.92	2.00	0.00	0.00	0.01	0.00
5.93	2.00	0.00	0.00	0.01	0.00	5.94	2.00	0.00	0.00	0.01	0.00
5.95	2.00	0.00	0.00	0.01	0.00	5.96	2.00	0.00	0.00	0.01	0.00
5.97	2.00	0.00	0.00	0.01	0.00	5.98	2.00	0.00	0.00	0.01	0.00
5.99	2.00	0.00	0.00	0.01	0.00	6.00	2.00	0.00	0.00	0.01	0.00
6.01	2.00	0.00	0.00	0.01	0.00	6.02	2.00	0.00	0.00	0.01	0.00
6.03	2.00	0.00	0.00	0.01	0.00	6.04	2.00	0.00	0.00	0.01	0.00
6.05	2.00	0.00	0.00	0.01	0.00	6.06	2.00	0.00	0.00	0.01	0.00
6.07	2.00	0.00	0.00	0.01	0.00	6.08	2.00	0.00	0.00	0.01	0.00
6.09	2.00	0.00	0.00	0.01	0.00	6.10	2.00	0.00	0.00	0.01	0.00
6.11	2.00	0.00	0.00	0.01	0.00	6.12	2.00	0.00	0.00	0.01	0.00
6.13	2.00	0.00	0.00	0.01	0.00	6.14	2.00	0.00	0.00	0.01	0.00
6.15	2.00	0.00	0.00	0.01	0.00	6.16	2.00	0.00	0.00	0.01	0.00
6.17	2.00	0.00	0.00	0.01	0.00	6.18	2.00	0.00	0.00	0.01	0.00
6.19	2.00	0.00	0.00	0.01	0.00	6.20	2.00	0.00	0.00	0.01	0.00
6.21	2.00	0.00	0.00	0.01	0.00	6.22	2.00	0.00	0.00	0.01	0.00
6.23	2.00	0.00	0.00	0.01	0.00	6.24	2.00	0.00	0.00	0.01	0.00
6.25	2.00	0.00	0.00	0.01	0.00	6.26	2.00	0.00	0.00	0.01	0.00
6.27	2.00	0.00	0.00	0.01	0.00	6.28	2.00	0.00	0.00	0.01	0.00
6.29	2.00	0.00	0.00	0.01	0.00	6.30	2.00	0.00	0.00	0.01	0.00
6.31	2.00	0.00	0.00	0.01	0.00	6.32	2.00	0.00	0.00	0.01	0.00
6.33	2.00	0.00	0.00	0.01	0.00	6.34	2.00	0.00	0.00	0.01	0.00
6.35	2.00	0.00	0.00	0.01	0.00	6.36	2.00	0.00	0.00	0.01	0.00
6.37	2.00	0.00	0.00	0.01	0.00	6.38	2.00	0.00	0.00	0.01	0.00
6.39	2.00	0.00	0.00	0.01	0.00	6.40	2.00	0.00	0.00	0.01	0.00
6.41	2.00	0.00	0.00	0.01	0.00	6.42	2.00	0.00	0.00	0.01	0.00
6.43	2.00	0.00	0.00	0.01	0.00	6.44	2.00	0.00	0.00	0.01	0.00
6.45	2.00	0.00	0.00	0.01	0.00	6.46	2.00	0.00	0.00	0.01	0.00
6.47	2.00	0.00	0.00	0.01	0.00	6.48	2.00	0.00	0.00	0.01	0.00
6.49	2.00	0.00	0.00	0.01	0.00	6.50	2.00	0.00	0.00	0.01	0.00
6.51	2.00	0.00	0.00	0.01	0.00	6.52	2.00	0.00	0.00	0.01	0.00
6.53	2.00	0.00	0.00	0.01	0.00	6.54	2.00	0.00	0.00	0.01	0.00
6.55	2.00	0.00	0.00	0.01	0.00	6.56	2.00	0.00	0.00	0.01	0.00
6.57	2.00	0.00	0.00	0.01	0.00	6.58	2.00	0.00	0.00	0.01	0.00
6.59	2.00	0.00	0.00	0.01	0.00	6.60	2.00	0.00	0.00	0.01	0.00
6.61	2.00	0.00	0.00	0.01	0.00	6.62	2.00	0.00	0.00	0.01	0.00
6.63	2.00	0.00	0.00	0.01	0.00	6.64	2.00	0.00	0.00	0.01	0.00
6.65	2.00	0.00	0.00	0.01	0.00	6.66	2.00	0.00	0.00	0.01	0.00
6.67	2.00	0.00	0.00	0.01	0.00	6.68	2.00	0.00	0.00	0.01	0.00
6.69	2.00	0.00	0.00	0.01	0.00	6.70	2.00	0.00	0.00	0.01	0.00
6.71	2.00	0.00	0.00	0.01	0.00	6.72	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.73	2.00	0.00	0.00	0.01	0.00	6.74	2.00	0.00	0.00	0.01	0.00
6.75	2.00	0.00	0.00	0.01	0.00	6.76	2.00	0.00	0.00	0.01	0.00
6.77	2.00	0.00	0.00	0.01	0.00	6.78	2.00	0.00	0.00	0.01	0.00
6.79	2.00	0.00	0.00	0.01	0.00	6.80	2.00	0.00	0.00	0.01	0.00
6.81	2.00	0.00	0.00	0.01	0.00	6.82	2.00	0.00	0.00	0.01	0.00
6.83	2.00	0.00	0.00	0.01	0.00	6.84	2.00	0.00	0.00	0.01	0.00
6.85	2.00	0.00	0.00	0.01	0.00	6.86	2.00	0.00	0.00	0.01	0.00
6.87	2.00	0.00	0.00	0.01	0.00	6.88	2.00	0.00	0.00	0.01	0.00
6.89	2.00	0.00	0.00	0.01	0.00	6.90	2.00	0.00	0.00	0.01	0.00
6.91	2.00	0.00	0.00	0.01	0.00	6.92	2.00	0.00	0.00	0.01	0.00
6.93	2.00	0.00	0.00	0.01	0.00	6.94	2.00	0.00	0.00	0.01	0.00
6.95	2.00	0.00	0.00	0.01	0.00	6.96	2.00	0.00	0.00	0.01	0.00
6.97	2.00	0.00	0.00	0.01	0.00	6.98	2.00	0.00	0.00	0.01	0.00
6.99	2.00	0.00	0.00	0.01	0.00	7.00	2.00	0.00	0.00	0.01	0.00
7.01	2.00	0.00	0.00	0.01	0.00	7.02	2.00	0.00	0.00	0.01	0.00
7.03	2.00	0.00	0.00	0.01	0.00	7.04	2.00	0.00	0.00	0.01	0.00
7.05	2.00	0.00	0.00	0.01	0.00	7.06	2.00	0.00	0.00	0.01	0.00
7.07	2.00	0.00	0.00	0.01	0.00	7.08	2.00	0.00	0.00	0.01	0.00
7.09	2.00	0.00	0.00	0.01	0.00	7.10	2.00	0.00	0.00	0.01	0.00
7.11	2.00	0.00	0.00	0.01	0.00	7.12	2.00	0.00	0.00	0.01	0.00
7.13	2.00	0.00	0.00	0.01	0.00	7.14	2.00	0.00	0.00	0.01	0.00
7.15	2.00	0.00	0.00	0.01	0.00	7.16	2.00	0.00	0.00	0.01	0.00
7.17	2.00	0.00	0.00	0.01	0.00	7.18	2.00	0.00	0.00	0.01	0.00
7.19	2.00	0.00	0.00	0.01	0.00	7.20	2.00	0.00	0.00	0.01	0.00
7.21	2.00	0.00	0.00	0.01	0.00	7.22	2.00	0.00	0.00	0.01	0.00
7.23	2.00	0.00	0.00	0.01	0.00	7.24	2.00	0.00	0.00	0.01	0.00
7.25	2.00	0.00	0.00	0.01	0.00	7.26	2.00	0.00	0.00	0.01	0.00
7.27	2.00	0.00	0.00	0.01	0.00	7.28	2.00	0.00	0.00	0.01	0.00
7.29	2.00	0.00	0.00	0.01	0.00	7.30	2.00	0.00	0.00	0.01	0.00
7.31	2.00	0.00	0.00	0.01	0.00	7.32	2.00	0.00	0.00	0.01	0.00
7.33	2.00	0.00	0.00	0.01	0.00	7.34	2.00	0.00	0.00	0.01	0.00
7.35	2.00	0.00	0.00	0.01	0.00	7.36	2.00	0.00	0.00	0.01	0.00
7.37	2.00	0.00	0.00	0.01	0.00	7.38	2.00	0.00	0.00	0.01	0.00
7.39	2.00	0.00	0.00	0.01	0.00	7.40	2.00	0.00	0.00	0.01	0.00
7.41	2.00	0.00	0.00	0.01	0.00	7.42	2.00	0.00	0.00	0.01	0.00
7.43	2.00	0.00	0.00	0.01	0.00	7.44	2.00	0.00	0.00	0.01	0.00
7.45	2.00	0.00	0.00	0.01	0.00	7.46	2.00	0.00	0.00	0.01	0.00
7.47	2.00	0.00	0.00	0.01	0.00	7.48	2.00	0.00	0.00	0.01	0.00
7.49	2.00	0.00	0.00	0.01	0.00	7.50	2.00	0.00	0.00	0.01	0.00
7.51	2.00	0.00	0.00	0.01	0.00	7.52	2.00	0.00	0.00	0.01	0.00
7.53	2.00	0.00	0.00	0.01	0.00	7.54	2.00	0.00	0.00	0.01	0.00
7.55	2.00	0.00	0.00	0.01	0.00	7.56	2.00	0.00	0.00	0.01	0.00
7.57	2.00	0.00	0.00	0.01	0.00	7.58	2.00	0.00	0.00	0.01	0.00
7.59	2.00	0.00	0.00	0.01	0.00	7.60	2.00	0.00	0.00	0.01	0.00
7.61	2.00	0.00	0.00	0.01	0.00	7.62	2.00	0.00	0.00	0.01	0.00
7.63	2.00	0.00	0.00	0.01	0.00	7.64	2.00	0.00	0.00	0.01	0.00
7.65	2.00	0.00	0.00	0.01	0.00	7.66	2.00	0.00	0.00	0.01	0.00
7.67	2.00	0.00	0.00	0.01	0.00	7.68	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.69	2.00	0.00	0.00	0.01	0.00	7.70	2.00	0.00	0.00	0.01	0.00
7.71	2.00	0.00	0.00	0.01	0.00	7.72	2.00	0.00	0.00	0.01	0.00
7.73	2.00	0.00	0.00	0.01	0.00	7.74	2.00	0.00	0.00	0.01	0.00
7.75	2.00	0.00	0.00	0.01	0.00	7.76	2.00	0.00	0.00	0.01	0.00
7.77	2.00	0.00	0.00	0.01	0.00	7.78	2.00	0.00	0.00	0.01	0.00
7.79	2.00	0.00	0.00	0.01	0.00	7.80	2.00	0.00	0.00	0.01	0.00
7.81	2.00	0.00	0.00	0.01	0.00	7.82	2.00	0.00	0.00	0.01	0.00
7.83	2.00	0.00	0.00	0.01	0.00	7.84	2.00	0.00	0.00	0.01	0.00
7.85	2.00	0.00	0.00	0.01	0.00	7.86	2.00	0.00	0.00	0.01	0.00
7.87	2.00	0.00	0.00	0.01	0.00	7.88	2.00	0.00	0.00	0.01	0.00
7.89	2.00	0.00	0.00	0.01	0.00	7.90	2.00	0.00	0.00	0.01	0.00
7.91	2.00	0.00	0.00	0.01	0.00	7.92	2.00	0.00	0.00	0.01	0.00
7.93	2.00	0.00	0.00	0.01	0.00	7.94	2.00	0.00	0.00	0.01	0.00
7.95	2.00	0.00	0.00	0.01	0.00	7.96	2.00	0.00	0.00	0.01	0.00
7.97	2.00	0.00	0.00	0.01	0.00	7.98	2.00	0.00	0.00	0.01	0.00
7.99	2.00	0.00	0.00	0.01	0.00	8.00	2.00	0.00	0.00	0.01	0.00
8.01	2.00	0.00	0.00	0.01	0.00	8.02	2.00	0.00	0.00	0.01	0.00
8.03	2.00	0.00	0.00	0.01	0.00	8.04	2.00	0.00	0.00	0.01	0.00
8.05	2.00	0.00	0.00	0.01	0.00	8.06	2.00	0.00	0.00	0.01	0.00
8.07	2.00	0.00	0.00	0.01	0.00	8.08	2.00	0.00	0.00	0.01	0.00
8.09	2.00	0.00	0.00	0.01	0.00	8.10	2.00	0.00	0.00	0.01	0.00
8.11	2.00	0.00	0.00	0.01	0.00	8.12	2.00	0.00	0.00	0.01	0.00
8.13	2.00	0.00	0.00	0.01	0.00	8.14	2.00	0.00	0.00	0.01	0.00
8.15	2.00	0.00	0.00	0.01	0.00	8.16	2.00	0.00	0.00	0.01	0.00
8.17	2.00	0.00	0.00	0.01	0.00	8.18	2.00	0.00	0.00	0.01	0.00
8.19	2.00	0.00	0.00	0.01	0.00	8.20	2.00	0.00	0.00	0.01	0.00
8.21	2.00	0.00	0.00	0.01	0.00	8.22	2.00	0.00	0.00	0.01	0.00
8.23	2.00	0.00	0.00	0.01	0.00	8.24	2.00	0.00	0.00	0.01	0.00
8.25	2.00	0.00	0.00	0.01	0.00	8.26	2.00	0.00	0.00	0.01	0.00
8.27	2.00	0.00	0.00	0.01	0.00	8.28	2.00	0.00	0.00	0.01	0.00
8.29	2.00	0.00	0.00	0.01	0.00	8.30	2.00	0.00	0.00	0.01	0.00
8.31	2.00	0.00	0.00	0.01	0.00	8.32	2.00	0.00	0.00	0.01	0.00
8.33	2.00	0.00	0.00	0.01	0.00	8.34	2.00	0.00	0.00	0.01	0.00
8.35	2.00	0.00	0.00	0.01	0.00	8.36	2.00	0.00	0.00	0.01	0.00
8.37	2.00	0.00	0.00	0.01	0.00	8.38	2.00	0.00	0.00	0.01	0.00
8.39	2.00	0.00	0.00	0.01	0.00	8.40	2.00	0.00	0.00	0.01	0.00
8.41	2.00	0.00	0.00	0.01	0.00	8.42	2.00	0.00	0.00	0.01	0.00
8.43	2.00	0.00	0.00	0.01	0.00	8.44	2.00	0.00	0.00	0.01	0.00
8.45	2.00	0.00	0.00	0.01	0.00	8.46	2.00	0.00	0.00	0.01	0.00
8.47	2.00	0.00	0.00	0.01	0.00	8.48	2.00	0.00	0.00	0.01	0.00
8.49	2.00	0.00	0.00	0.01	0.00	8.50	2.00	0.00	0.00	0.01	0.00
8.51	2.00	0.00	0.00	0.01	0.00	8.52	2.00	0.00	0.00	0.01	0.00
8.53	2.00	0.00	0.00	0.01	0.00	8.54	2.00	0.00	0.00	0.01	0.00
8.55	2.00	0.00	0.00	0.01	0.00	8.56	2.00	0.00	0.00	0.01	0.00
8.57	2.00	0.00	0.00	0.01	0.00	8.58	2.00	0.00	0.00	0.01	0.00
8.59	2.00	0.00	0.00	0.01	0.00	8.60	2.00	0.00	0.00	0.01	0.00
8.61	2.00	0.00	0.00	0.01	0.00	8.62	2.00	0.00	0.00	0.01	0.00
8.63	2.00	0.00	0.00	0.01	0.00	8.64	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.65	2.00	0.00	0.00	0.01	0.00	8.66	2.00	0.00	0.00	0.01	0.00
8.67	2.00	0.00	0.00	0.01	0.00	8.68	2.00	0.00	0.00	0.01	0.00
8.69	2.00	0.00	0.00	0.01	0.00	8.70	2.00	0.00	0.00	0.01	0.00
8.71	2.00	0.00	0.00	0.01	0.00	8.72	2.00	0.00	0.00	0.01	0.00
8.73	2.00	0.00	0.00	0.01	0.00	8.74	2.00	0.00	0.00	0.01	0.00
8.75	2.00	0.00	0.00	0.01	0.00	8.76	2.00	0.00	0.00	0.01	0.00
8.77	2.00	0.00	0.00	0.01	0.00	8.78	2.00	0.00	0.00	0.01	0.00
8.79	2.00	0.00	0.00	0.01	0.00	8.80	2.00	0.00	0.00	0.01	0.00
8.81	2.00	0.00	0.00	0.01	0.00	8.82	2.00	0.00	0.00	0.01	0.00
8.83	2.00	0.00	0.00	0.01	0.00	8.84	2.00	0.00	0.00	0.01	0.00
8.85	2.00	0.00	0.00	0.01	0.00	8.86	2.00	0.00	0.00	0.01	0.00
8.87	2.00	0.00	0.00	0.01	0.00	8.88	2.00	0.00	0.00	0.01	0.00
8.89	2.00	0.00	0.00	0.01	0.00	8.90	2.00	0.00	0.00	0.01	0.00
8.91	2.00	0.00	0.00	0.01	0.00	8.92	2.00	0.00	0.00	0.01	0.00
8.93	2.00	0.00	0.00	0.01	0.00	8.94	2.00	0.00	0.00	0.01	0.00
8.95	2.00	0.00	0.00	0.01	0.00	8.96	2.00	0.00	0.00	0.01	0.00
8.97	2.00	0.00	0.00	0.01	0.00	8.98	2.00	0.00	0.00	0.01	0.00
8.99	2.00	0.00	0.00	0.01	0.00	9.00	2.00	0.00	0.00	0.01	0.00
9.01	2.00	0.00	0.00	0.01	0.00	9.02	2.00	0.00	0.00	0.01	0.00
9.03	2.00	0.00	0.00	0.01	0.00	9.04	2.00	0.00	0.00	0.01	0.00
9.05	2.00	0.00	0.00	0.01	0.00	9.06	2.00	0.00	0.00	0.01	0.00
9.07	2.00	0.00	0.00	0.01	0.00	9.08	2.00	0.00	0.00	0.01	0.00
9.09	2.00	0.00	0.00	0.01	0.00	9.10	2.00	0.00	0.00	0.01	0.00
9.11	2.00	0.00	0.00	0.01	0.00	9.12	2.00	0.00	0.00	0.01	0.00
9.13	2.00	0.00	0.00	0.01	0.00	9.14	2.00	0.00	0.00	0.01	0.00
9.15	2.00	0.00	0.00	0.01	0.00	9.16	2.00	0.00	0.00	0.01	0.00
9.17	2.00	0.00	0.00	0.01	0.00	9.18	2.00	0.00	0.00	0.01	0.00
9.19	2.00	0.00	0.00	0.01	0.00	9.20	2.00	0.00	0.00	0.01	0.00
9.21	2.00	0.00	0.00	0.01	0.00	9.22	2.00	0.00	0.00	0.01	0.00
9.23	2.00	0.00	0.00	0.01	0.00	9.24	2.00	0.00	0.00	0.01	0.00
9.25	2.00	0.00	0.00	0.01	0.00	9.26	2.00	0.00	0.00	0.01	0.00
9.27	2.00	0.00	0.00	0.01	0.00	9.28	2.00	0.00	0.00	0.01	0.00
9.29	2.00	0.00	0.00	0.01	0.00	9.30	2.00	0.00	0.00	0.01	0.00
9.31	2.00	0.00	0.00	0.01	0.00	9.32	2.00	0.00	0.00	0.01	0.00
9.33	2.00	0.00	0.00	0.01	0.00	9.34	2.00	0.00	0.00	0.01	0.00
9.35	2.00	0.00	0.00	0.01	0.00	9.36	2.00	0.00	0.00	0.01	0.00
9.37	2.00	0.00	0.00	0.01	0.00	9.38	2.00	0.00	0.00	0.01	0.00
9.39	2.00	0.00	0.00	0.01	0.00	9.40	2.00	0.00	0.00	0.01	0.00
9.41	2.00	0.00	0.00	0.01	0.00	9.42	2.00	0.00	0.00	0.01	0.00
9.43	2.00	0.00	0.00	0.01	0.00	9.44	2.00	0.00	0.00	0.01	0.00
9.45	2.00	0.00	0.00	0.01	0.00	9.46	2.00	0.00	0.00	0.01	0.00
9.47	2.00	0.00	0.00	0.01	0.00	9.48	2.00	0.00	0.00	0.01	0.00
9.49	2.00	0.00	0.00	0.01	0.00	9.50	2.00	0.00	0.00	0.01	0.00
9.51	2.00	0.00	0.00	0.01	0.00	9.52	2.00	0.00	0.00	0.01	0.00
9.53	2.00	0.00	0.00	0.01	0.00	9.54	2.00	0.00	0.00	0.01	0.00
9.55	2.00	0.00	0.00	0.01	0.00	9.56	2.00	0.00	0.00	0.01	0.00
9.57	2.00	0.00	0.00	0.01	0.00	9.58	2.00	0.00	0.00	0.01	0.00
9.59	2.00	0.00	0.00	0.01	0.00	9.60	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.61	2.00	0.00	0.00	0.01	0.00	9.62	2.00	0.00	0.00	0.01	0.00
9.63	2.00	0.00	0.00	0.01	0.00	9.64	2.00	0.00	0.00	0.01	0.00
9.65	2.00	0.00	0.00	0.01	0.00	9.66	2.00	0.00	0.00	0.01	0.00
9.67	2.00	0.00	0.00	0.01	0.00	9.68	2.00	0.00	0.00	0.01	0.00
9.69	2.00	0.00	0.00	0.01	0.00	9.70	2.00	0.00	0.00	0.01	0.00
9.71	2.00	0.00	0.00	0.01	0.00	9.72	2.00	0.00	0.00	0.01	0.00
9.73	2.00	0.00	0.00	0.01	0.00	9.74	2.00	0.00	0.00	0.01	0.00
9.75	2.00	0.00	0.00	0.01	0.00	9.76	2.00	0.00	0.00	0.01	0.00
9.77	2.00	0.00	0.00	0.01	0.00	9.78	2.00	0.00	0.00	0.01	0.00
9.79	2.00	0.00	0.00	0.01	0.00	9.80	2.00	0.00	0.00	0.01	0.00
9.81	2.00	0.00	0.00	0.01	0.00	9.82	2.00	0.00	0.00	0.01	0.00
9.83	2.00	0.00	0.00	0.01	0.00	9.84	2.00	0.00	0.00	0.01	0.00
9.85	2.00	0.00	0.00	0.01	0.00	9.86	2.00	0.00	0.00	0.01	0.00
9.87	2.00	0.00	0.00	0.01	0.00	9.88	2.00	0.00	0.00	0.01	0.00
9.89	2.00	0.00	0.00	0.01	0.00	9.90	2.00	0.00	0.00	0.01	0.00
9.91	2.00	0.00	0.00	0.01	0.00	9.92	2.00	0.00	0.00	0.01	0.00
9.93	2.00	0.00	0.00	0.01	0.00	9.94	2.00	0.00	0.00	0.01	0.00
9.95	2.00	0.00	0.00	0.01	0.00	9.96	2.00	0.00	0.00	0.01	0.00
9.97	2.00	0.00	0.00	0.01	0.00	9.98	2.00	0.00	0.00	0.01	0.00
9.99	2.00	0.00	0.00	0.01	0.00	10.00	2.00	0.00	0.00	0.01	0.00
10.01	2.00	0.00	0.00	0.01	0.00	10.02	2.00	0.00	0.00	0.01	0.00
10.03	2.00	0.00	0.00	0.01	0.00	10.04	2.00	0.00	0.00	0.01	0.00
10.05	2.00	0.00	0.00	0.01	0.00	10.06	2.00	0.00	0.00	0.01	0.00
10.07	2.00	0.00	0.00	0.01	0.00	10.08	2.00	0.00	0.00	0.01	0.00
10.09	2.00	0.00	0.00	0.01	0.00	10.10	2.00	0.00	0.00	0.01	0.00
10.11	2.00	0.00	0.00	0.01	0.00	10.12	2.00	0.00	0.00	0.01	0.00
10.13	2.00	0.00	0.00	0.01	0.00	10.14	2.00	0.00	0.00	0.01	0.00
10.15	2.00	0.00	0.00	0.01	0.00	10.16	2.00	0.00	0.00	0.01	0.00
10.17	2.00	0.00	0.00	0.01	0.00	10.18	2.00	0.00	0.00	0.01	0.00
10.19	2.00	0.00	0.00	0.01	0.00	10.20	2.00	0.00	0.00	0.01	0.00
10.21	2.00	0.00	0.00	0.01	0.00	10.22	2.00	0.00	0.00	0.01	0.00
10.23	2.00	0.00	0.00	0.01	0.00	10.24	2.00	0.00	0.00	0.01	0.00
10.25	2.00	0.00	0.00	0.01	0.00	10.26	2.00	0.00	0.00	0.01	0.00
10.27	2.00	0.00	0.00	0.01	0.00	10.28	2.00	0.00	0.00	0.01	0.00
10.29	2.00	0.00	0.00	0.01	0.00	10.30	2.00	0.00	0.00	0.01	0.00
10.31	2.00	0.00	0.00	0.01	0.00	10.32	2.00	0.00	0.00	0.01	0.00
10.33	2.00	0.00	0.00	0.01	0.00	10.34	2.00	0.00	0.00	0.01	0.00
10.35	2.00	0.00	0.00	0.01	0.00	10.36	2.00	0.00	0.00	0.01	0.00
10.37	2.00	0.00	0.00	0.01	0.00	10.38	2.00	0.00	0.00	0.01	0.00
10.39	2.00	0.00	0.00	0.01	0.00	10.40	2.00	0.00	0.00	0.01	0.00
10.41	2.00	0.00	0.00	0.01	0.00	10.42	2.00	0.00	0.00	0.01	0.00
10.43	2.00	0.00	0.00	0.01	0.00	10.44	2.00	0.00	0.00	0.01	0.00
10.45	2.00	0.00	0.00	0.01	0.00	10.46	2.00	0.00	0.00	0.01	0.00
10.47	2.00	0.00	0.00	0.01	0.00	10.48	2.00	0.00	0.00	0.01	0.00
10.49	2.00	0.00	0.00	0.01	0.00	10.50	2.00	0.00	0.00	0.01	0.00
10.51	2.00	0.00	0.00	0.01	0.00	10.52	2.00	0.00	0.00	0.01	0.00
10.53	2.00	0.00	0.00	0.01	0.00	10.54	2.00	0.00	0.00	0.01	0.00
10.55	2.00	0.00	0.00	0.01	0.00	10.56	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.57	2.00	0.00	0.00	0.01	0.00	10.58	2.00	0.00	0.00	0.01	0.00
10.59	2.00	0.00	0.00	0.01	0.00	10.60	2.00	0.00	0.00	0.01	0.00
10.61	2.00	0.00	0.00	0.01	0.00	10.62	2.00	0.00	0.00	0.01	0.00
10.63	2.00	0.00	0.00	0.01	0.00	10.64	2.00	0.00	0.00	0.01	0.00
10.65	2.00	0.00	0.00	0.01	0.00	10.66	2.00	0.00	0.00	0.01	0.00
10.67	2.00	0.00	0.00	0.01	0.00	10.68	2.00	0.00	0.00	0.01	0.00
10.69	2.00	0.00	0.00	0.01	0.00	10.70	2.00	0.00	0.00	0.01	0.00
10.71	2.00	0.00	0.00	0.01	0.00	10.72	2.00	0.00	0.00	0.01	0.00
10.73	2.00	0.00	0.00	0.01	0.00	10.74	2.00	0.00	0.00	0.01	0.00
10.75	2.00	0.00	0.00	0.01	0.00	10.76	2.00	0.00	0.00	0.01	0.00
10.77	2.00	0.00	0.00	0.01	0.00	10.78	2.00	0.00	0.00	0.01	0.00
10.79	2.00	0.00	0.00	0.01	0.00	10.80	2.00	0.00	0.00	0.01	0.00
10.81	2.00	0.00	0.00	0.01	0.00	10.82	2.00	0.00	0.00	0.01	0.00
10.83	2.00	0.00	0.00	0.01	0.00	10.84	2.00	0.00	0.00	0.01	0.00
10.85	2.00	0.00	0.00	0.01	0.00	10.86	2.00	0.00	0.00	0.01	0.00
10.87	2.00	0.00	0.00	0.01	0.00	10.88	2.00	0.00	0.00	0.01	0.00
10.89	2.00	0.00	0.00	0.01	0.00	10.90	2.00	0.00	0.00	0.01	0.00
10.91	2.00	0.00	0.00	0.01	0.00	10.92	2.00	0.00	0.00	0.01	0.00
10.93	2.00	0.00	0.00	0.01	0.00	10.94	2.00	0.00	0.00	0.01	0.00
10.95	2.00	0.00	0.00	0.01	0.00	10.96	2.00	0.00	0.00	0.01	0.00
10.97	2.00	0.00	0.00	0.01	0.00	10.98	2.00	0.00	0.00	0.01	0.00
10.99	2.00	0.00	0.00	0.01	0.00	11.00	2.00	0.00	0.00	0.01	0.00
11.01	2.00	0.00	0.00	0.01	0.00	11.02	2.00	0.00	0.00	0.01	0.00
11.03	2.00	0.00	0.00	0.01	0.00	11.04	2.00	0.00	0.00	0.01	0.00
11.05	2.00	0.00	0.00	0.01	0.00	11.06	2.00	0.00	0.00	0.01	0.00
11.07	2.00	0.00	0.00	0.01	0.00	11.08	2.00	0.00	0.00	0.01	0.00
11.09	2.00	0.00	0.00	0.01	0.00	11.10	2.00	0.00	0.00	0.01	0.00
11.11	2.00	0.00	0.00	0.01	0.00	11.12	2.00	0.00	0.00	0.01	0.00
11.13	2.00	0.00	0.00	0.01	0.00	11.14	2.00	0.00	0.00	0.01	0.00
11.15	2.00	0.00	0.00	0.01	0.00	11.16	2.00	0.00	0.00	0.01	0.00
11.17	2.00	0.00	0.00	0.01	0.00	11.18	2.00	0.00	0.00	0.01	0.00
11.19	2.00	0.00	0.00	0.01	0.00	11.20	2.00	0.00	0.00	0.01	0.00
11.21	2.00	0.00	0.00	0.01	0.00	11.22	2.00	0.00	0.00	0.01	0.00
11.23	2.00	0.00	0.00	0.01	0.00	11.24	2.00	0.00	0.00	0.01	0.00
11.25	2.00	0.00	0.00	0.01	0.00	11.26	2.00	0.00	0.00	0.01	0.00
11.27	2.00	0.00	0.00	0.01	0.00	11.28	2.00	0.00	0.00	0.01	0.00
11.29	2.00	0.00	0.00	0.01	0.00	11.30	2.00	0.00	0.00	0.01	0.00
11.31	2.00	0.00	0.00	0.01	0.00	11.32	2.00	0.00	0.00	0.01	0.00
11.33	2.00	0.00	0.00	0.01	0.00	11.34	2.00	0.00	0.00	0.01	0.00
11.35	2.00	0.00	0.00	0.01	0.00	11.36	2.00	0.00	0.00	0.01	0.00
11.37	2.00	0.00	0.00	0.01	0.00	11.38	2.00	0.00	0.00	0.01	0.00
11.39	2.00	0.00	0.00	0.01	0.00	11.40	2.00	0.00	0.00	0.01	0.00
11.41	2.00	0.00	0.00	0.01	0.00	11.42	2.00	0.00	0.00	0.01	0.00
11.43	2.00	0.00	0.00	0.01	0.00	11.44	2.00	0.00	0.00	0.01	0.00
11.45	2.00	0.00	0.00	0.01	0.00	11.46	2.00	0.00	0.00	0.01	0.00
11.47	2.00	0.00	0.00	0.01	0.00	11.48	2.00	0.00	0.00	0.01	0.00
11.49	2.00	0.00	0.00	0.01	0.00	11.50	2.00	0.00	0.00	0.01	0.00
11.51	2.00	0.00	0.00	0.01	0.00	11.52	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.53	2.00	0.00	0.00	0.01	0.00	11.54	2.00	0.00	0.00	0.01	0.00
11.55	2.00	0.00	0.00	0.01	0.00	11.56	2.00	0.00	0.00	0.01	0.00
11.57	2.00	0.00	0.00	0.01	0.00	11.58	2.00	0.00	0.00	0.01	0.00
11.59	2.00	0.00	0.00	0.01	0.00	11.60	2.00	0.00	0.00	0.01	0.00
11.61	2.00	0.00	0.00	0.01	0.00	11.62	2.00	0.00	0.00	0.01	0.00
11.63	2.00	0.00	0.00	0.01	0.00	11.64	2.00	0.00	0.00	0.01	0.00
11.65	2.00	0.00	0.00	0.01	0.00	11.66	2.00	0.00	0.00	0.01	0.00
11.67	2.00	0.00	0.00	0.01	0.00	11.68	2.00	0.00	0.00	0.01	0.00
11.69	2.00	0.00	0.00	0.01	0.00	11.70	2.00	0.00	0.00	0.01	0.00
11.71	2.00	0.00	0.00	0.01	0.00	11.72	2.00	0.00	0.00	0.01	0.00
11.73	2.00	0.00	0.00	0.01	0.00	11.74	2.00	0.00	0.00	0.01	0.00
11.75	2.00	0.00	0.00	0.01	0.00	11.76	2.00	0.00	0.00	0.01	0.00
11.77	2.00	0.00	0.00	0.01	0.00	11.78	2.00	0.00	0.00	0.01	0.00
11.79	2.00	0.00	0.00	0.01	0.00	11.80	2.00	0.00	0.00	0.01	0.00
11.81	2.00	0.00	0.00	0.01	0.00	11.82	2.00	0.00	0.00	0.01	0.00
11.83	2.00	0.00	0.00	0.01	0.00	11.84	2.00	0.00	0.00	0.01	0.00
11.85	2.00	0.00	0.00	0.01	0.00	11.86	2.00	0.00	0.00	0.01	0.00
11.87	2.00	0.00	0.00	0.01	0.00	11.88	2.00	0.00	0.00	0.01	0.00
11.89	2.00	0.00	0.00	0.01	0.00	11.90	2.00	0.00	0.00	0.01	0.00
11.91	2.00	0.00	0.00	0.01	0.00	11.92	2.00	0.00	0.00	0.01	0.00
11.93	2.00	0.00	0.00	0.01	0.00	11.94	2.00	0.00	0.00	0.01	0.00
11.95	2.00	0.00	0.00	0.01	0.00	11.96	2.00	0.00	0.00	0.01	0.00
11.97	2.00	0.00	0.00	0.01	0.00	11.98	2.00	0.00	0.00	0.01	0.00
11.99	2.00	0.00	0.00	0.01	0.00	12.00	2.00	0.00	0.00	0.01	0.00
12.01	2.00	0.00	0.00	0.01	0.00	12.02	2.00	0.00	0.00	0.01	0.00
12.03	2.00	0.00	0.00	0.01	0.00	12.04	2.00	0.00	0.00	0.01	0.00
12.05	2.00	0.00	0.00	0.01	0.00	12.06	2.00	0.00	0.00	0.01	0.00
12.07	2.00	0.00	0.00	0.01	0.00	12.08	2.00	0.00	0.00	0.01	0.00
12.09	2.00	0.00	0.00	0.01	0.00	12.10	2.00	0.00	0.00	0.01	0.00
12.11	2.00	0.00	0.00	0.01	0.00	12.12	2.00	0.00	0.00	0.01	0.00
12.13	2.00	0.00	0.00	0.01	0.00	12.14	2.00	0.00	0.00	0.01	0.00
12.15	2.00	0.00	0.00	0.01	0.00	12.16	2.00	0.00	0.00	0.01	0.00
12.17	2.00	0.00	0.00	0.01	0.00	12.18	2.00	0.00	0.00	0.01	0.00
12.19	2.00	0.00	0.00	0.01	0.00	12.20	2.00	0.00	0.00	0.01	0.00
12.21	2.00	0.00	0.00	0.01	0.00	12.22	2.00	0.00	0.00	0.01	0.00
12.23	2.00	0.00	0.00	0.01	0.00	12.24	2.00	0.00	0.00	0.01	0.00
12.25	2.00	0.00	0.00	0.01	0.00	12.26	2.00	0.00	0.00	0.01	0.00
12.27	2.00	0.00	0.00	0.01	0.00	12.28	2.00	0.00	0.00	0.01	0.00
12.29	2.00	0.00	0.00	0.01	0.00	12.30	2.00	0.00	0.00	0.01	0.00
12.31	2.00	0.00	0.00	0.01	0.00	12.32	2.00	0.00	0.00	0.01	0.00
12.33	2.00	0.00	0.00	0.01	0.00	12.34	2.00	0.00	0.00	0.01	0.00
12.35	2.00	0.00	0.00	0.01	0.00	12.36	2.00	0.00	0.00	0.01	0.00
12.37	2.00	0.00	0.00	0.01	0.00	12.38	2.00	0.00	0.00	0.01	0.00
12.39	2.00	0.00	0.00	0.01	0.00	12.40	2.00	0.00	0.00	0.01	0.00
12.41	2.00	0.00	0.00	0.01	0.00	12.42	2.00	0.00	0.00	0.01	0.00
12.43	2.00	0.00	0.00	0.01	0.00	12.44	2.00	0.00	0.00	0.01	0.00
12.45	2.00	0.00	0.00	0.01	0.00	12.46	2.00	0.00	0.00	0.01	0.00
12.47	2.00	0.00	0.00	0.01	0.00	12.48	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.49	2.00	0.00	0.00	0.01	0.00	12.50	2.00	0.00	0.00	0.01	0.00
12.51	2.00	0.00	0.00	0.01	0.00	12.52	2.00	0.00	0.00	0.01	0.00
12.53	2.00	0.00	0.00	0.01	0.00	12.54	2.00	0.00	0.00	0.01	0.00
12.55	2.00	0.00	0.00	0.01	0.00	12.56	2.00	0.00	0.00	0.01	0.00
12.57	2.00	0.00	0.00	0.01	0.00	12.58	2.00	0.00	0.00	0.01	0.00
12.59	2.00	0.00	0.00	0.01	0.00	12.60	2.00	0.00	0.00	0.01	0.00
12.61	2.00	0.00	0.00	0.01	0.00	12.62	2.00	0.00	0.00	0.01	0.00
12.63	2.00	0.00	0.00	0.01	0.00	12.64	2.00	0.00	0.00	0.01	0.00
12.65	2.00	0.00	0.00	0.01	0.00	12.66	2.00	0.00	0.00	0.01	0.00
12.67	2.00	0.00	0.00	0.01	0.00	12.68	2.00	0.00	0.00	0.01	0.00
12.69	2.00	0.00	0.00	0.01	0.00	12.70	2.00	0.00	0.00	0.01	0.00
12.71	2.00	0.00	0.00	0.01	0.00	12.72	2.00	0.00	0.00	0.01	0.00
12.73	2.00	0.00	0.00	0.01	0.00	12.74	2.00	0.00	0.00	0.01	0.00
12.75	2.00	0.00	0.00	0.01	0.00	12.76	2.00	0.00	0.00	0.01	0.00
12.77	2.00	0.00	0.00	0.01	0.00	12.78	2.00	0.00	0.00	0.01	0.00
12.79	2.00	0.00	0.00	0.01	0.00	12.80	2.00	0.00	0.00	0.01	0.00
12.81	2.00	0.00	0.00	0.01	0.00	12.82	2.00	0.00	0.00	0.01	0.00
12.83	2.00	0.00	0.00	0.01	0.00	12.84	2.00	0.00	0.00	0.01	0.00
12.85	2.00	0.00	0.00	0.01	0.00	12.86	2.00	0.00	0.00	0.01	0.00
12.87	2.00	0.00	0.00	0.01	0.00	12.88	2.00	0.00	0.00	0.01	0.00
12.89	2.00	0.00	0.00	0.01	0.00	12.90	2.00	0.00	0.00	0.01	0.00
12.91	2.00	0.00	0.00	0.01	0.00	12.92	2.00	0.00	0.00	0.01	0.00
12.93	2.00	0.00	0.00	0.01	0.00	12.94	2.00	0.00	0.00	0.01	0.00
12.95	2.00	0.00	0.00	0.01	0.00	12.96	2.00	0.00	0.00	0.01	0.00
12.97	2.00	0.00	0.00	0.01	0.00	12.98	2.00	0.00	0.00	0.01	0.00
12.99	2.00	0.00	0.00	0.01	0.00	13.00	2.00	0.00	0.00	0.01	0.00
13.01	2.00	0.00	0.00	0.01	0.00	13.02	2.00	0.00	0.00	0.01	0.00
13.03	2.00	0.00	0.00	0.01	0.00	13.04	2.00	0.00	0.00	0.01	0.00
13.05	2.00	0.00	0.00	0.01	0.00	13.06	2.00	0.00	0.00	0.01	0.00
13.07	2.00	0.00	0.00	0.01	0.00	13.08	2.00	0.00	0.00	0.01	0.00
13.09	2.00	0.00	0.00	0.01	0.00	13.10	2.00	0.00	0.00	0.01	0.00
13.11	2.00	0.00	0.00	0.01	0.00	13.12	2.00	0.00	0.00	0.01	0.00
13.13	2.00	0.00	0.00	0.01	0.00	13.14	2.00	0.00	0.00	0.01	0.00
13.15	2.00	0.00	0.00	0.01	0.00	13.16	2.00	0.00	0.00	0.01	0.00
13.17	2.00	0.00	0.00	0.01	0.00	13.18	2.00	0.00	0.00	0.01	0.00
13.19	2.00	0.00	0.00	0.01	0.00	13.20	2.00	0.00	0.00	0.01	0.00
13.21	2.00	0.00	0.00	0.01	0.00	13.22	2.00	0.00	0.00	0.01	0.00
13.23	2.00	0.00	0.00	0.01	0.00	13.24	2.00	0.00	0.00	0.01	0.00
13.25	2.00	0.00	0.00	0.01	0.00	13.26	2.00	0.00	0.00	0.01	0.00
13.27	2.00	0.00	0.00	0.01	0.00	13.28	2.00	0.00	0.00	0.01	0.00
13.29	2.00	0.00	0.00	0.01	0.00	13.30	2.00	0.00	0.00	0.01	0.00
13.31	2.00	0.00	0.00	0.01	0.00	13.32	2.00	0.00	0.00	0.01	0.00
13.33	2.00	0.00	0.00	0.01	0.00	13.34	2.00	0.00	0.00	0.01	0.00
13.35	2.00	0.00	0.00	0.01	0.00	13.36	2.00	0.00	0.00	0.01	0.00
13.37	2.00	0.00	0.00	0.01	0.00	13.38	2.00	0.00	0.00	0.01	0.00
13.39	2.00	0.00	0.00	0.01	0.00	13.40	2.00	0.00	0.00	0.01	0.00
13.41	2.00	0.00	0.00	0.01	0.00	13.42	2.00	0.00	0.00	0.01	0.00
13.43	2.00	0.00	0.00	0.01	0.00	13.44	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.45	2.00	0.00	0.00	0.01	0.00	13.46	2.00	0.00	0.00	0.01	0.00
13.47	2.00	0.00	0.00	0.01	0.00	13.48	2.00	0.00	0.00	0.01	0.00
13.49	2.00	0.00	0.00	0.01	0.00	13.50	2.00	0.00	0.00	0.01	0.00
13.51	2.00	0.00	0.00	0.01	0.00	13.52	2.00	0.00	0.00	0.01	0.00
13.53	2.00	0.00	0.00	0.01	0.00	13.54	2.00	0.00	0.00	0.01	0.00
13.55	2.00	0.00	0.00	0.01	0.00	13.56	2.00	0.00	0.00	0.01	0.00
13.57	2.00	0.00	0.00	0.01	0.00	13.58	2.00	0.00	0.00	0.01	0.00
13.59	2.00	0.00	0.00	0.01	0.00	13.60	2.00	0.00	0.00	0.01	0.00
13.61	2.00	0.00	0.00	0.01	0.00	13.62	2.00	0.00	0.00	0.01	0.00
13.63	2.00	0.00	0.00	0.01	0.00	13.64	2.00	0.00	0.00	0.01	0.00
13.65	2.00	0.00	0.00	0.01	0.00	13.66	2.00	0.00	0.00	0.01	0.00
13.67	2.00	0.00	0.00	0.01	0.00	13.68	2.00	0.00	0.00	0.01	0.00
13.69	2.00	0.00	0.00	0.01	0.00	13.70	2.00	0.00	0.00	0.01	0.00
13.71	2.00	0.00	0.00	0.01	0.00	13.72	2.00	0.00	0.00	0.01	0.00
13.73	2.00	0.00	0.00	0.01	0.00	13.74	2.00	0.00	0.00	0.01	0.00
13.75	2.00	0.00	0.00	0.01	0.00	13.76	2.00	0.00	0.00	0.01	0.00
13.77	2.00	0.00	0.00	0.01	0.00	13.78	2.00	0.00	0.00	0.01	0.00
13.79	2.00	0.00	0.00	0.01	0.00	13.80	2.00	0.00	0.00	0.01	0.00
13.81	2.00	0.00	0.00	0.01	0.00	13.82	2.00	0.00	0.00	0.01	0.00
13.83	2.00	0.00	0.00	0.01	0.00	13.84	2.00	0.00	0.00	0.01	0.00
13.85	2.00	0.00	0.00	0.01	0.00	13.86	2.00	0.00	0.00	0.01	0.00
13.87	2.00	0.00	0.00	0.01	0.00	13.88	2.00	0.00	0.00	0.01	0.00
13.89	2.00	0.00	0.00	0.01	0.00	13.90	2.00	0.00	0.00	0.01	0.00
13.91	2.00	0.00	0.00	0.01	0.00	13.92	2.00	0.00	0.00	0.01	0.00
13.93	2.00	0.00	0.00	0.01	0.00	13.94	2.00	0.00	0.00	0.01	0.00
13.95	2.00	0.00	0.00	0.01	0.00	13.96	2.00	0.00	0.00	0.01	0.00
13.97	2.00	0.00	0.00	0.01	0.00	13.98	2.00	0.00	0.00	0.01	0.00
13.99	2.00	0.00	0.00	0.01	0.00	14.00	2.00	0.00	0.00	0.01	0.00
14.01	2.00	0.00	0.00	0.01	0.00	14.02	2.00	0.00	0.00	0.01	0.00
14.03	2.00	0.00	0.00	0.01	0.00	14.04	2.00	0.00	0.00	0.01	0.00
14.05	2.00	0.00	0.00	0.01	0.00	14.06	2.00	0.00	0.00	0.01	0.00
14.07	2.00	0.00	0.00	0.01	0.00	14.08	2.00	0.00	0.00	0.01	0.00
14.09	2.00	0.00	0.00	0.01	0.00	14.10	2.00	0.00	0.00	0.01	0.00
14.11	2.00	0.00	0.00	0.01	0.00	14.12	2.00	0.00	0.00	0.01	0.00
14.13	2.00	0.00	0.00	0.01	0.00	14.14	2.00	0.00	0.00	0.01	0.00
14.15	2.00	0.00	0.00	0.01	0.00	14.16	2.00	0.00	0.00	0.01	0.00
14.17	2.00	0.00	0.00	0.01	0.00	14.18	2.00	0.00	0.00	0.01	0.00
14.19	2.00	0.00	0.00	0.01	0.00	14.20	2.00	0.00	0.00	0.01	0.00
14.21	2.00	0.00	0.00	0.01	0.00	14.22	2.00	0.00	0.00	0.01	0.00
14.23	2.00	0.00	0.00	0.01	0.00	14.24	2.00	0.00	0.00	0.01	0.00
14.25	2.00	0.00	0.00	0.01	0.00	14.26	2.00	0.00	0.00	0.01	0.00
14.27	2.00	0.00	0.00	0.01	0.00	14.28	2.00	0.00	0.00	0.01	0.00
14.29	2.00	0.00	0.00	0.01	0.00	14.30	2.00	0.00	0.00	0.01	0.00
14.31	2.00	0.00	0.00	0.01	0.00	14.32	2.00	0.00	0.00	0.01	0.00
14.33	2.00	0.00	0.00	0.01	0.00	14.34	2.00	0.00	0.00	0.01	0.00
14.35	2.00	0.00	0.00	0.01	0.00	14.36	2.00	0.00	0.00	0.01	0.00
14.37	2.00	0.00	0.00	0.01	0.00	14.38	2.00	0.00	0.00	0.01	0.00
14.39	2.00	0.00	0.00	0.01	0.00	14.40	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.41	2.00	0.00	0.00	0.01	0.00	14.42	2.00	0.00	0.00	0.01	0.00
14.43	2.00	0.00	0.00	0.01	0.00	14.44	2.00	0.00	0.00	0.01	0.00
14.45	2.00	0.00	0.00	0.01	0.00	14.46	2.00	0.00	0.00	0.01	0.00
14.47	2.00	0.00	0.00	0.01	0.00	14.48	2.00	0.00	0.00	0.01	0.00
14.49	2.00	0.00	0.00	0.01	0.00	14.50	2.00	0.00	0.00	0.01	0.00
14.51	2.00	0.00	0.00	0.01	0.00	14.52	2.00	0.00	0.00	0.01	0.00
14.53	2.00	0.00	0.00	0.01	0.00	14.54	2.00	0.00	0.00	0.01	0.00
14.55	2.00	0.00	0.00	0.01	0.00	14.56	2.00	0.00	0.00	0.01	0.00
14.57	2.00	0.00	0.00	0.01	0.00	14.58	2.00	0.00	0.00	0.01	0.00
14.59	2.00	0.00	0.00	0.01	0.00	14.60	2.00	0.00	0.00	0.01	0.00
14.61	2.00	0.00	0.00	0.01	0.00	14.62	2.00	0.00	0.00	0.01	0.00
14.63	2.00	0.00	0.00	0.01	0.00	14.64	2.00	0.00	0.00	0.01	0.00
14.65	2.00	0.00	0.00	0.01	0.00	14.66	2.00	0.00	0.00	0.01	0.00
14.67	2.00	0.00	0.00	0.01	0.00	14.68	2.00	0.00	0.00	0.01	0.00
14.69	2.00	0.00	0.00	0.01	0.00	14.70	2.00	0.00	0.00	0.01	0.00
14.71	2.00	0.00	0.00	0.01	0.00	14.72	2.00	0.00	0.00	0.01	0.00
14.73	2.00	0.00	0.00	0.01	0.00	14.74	2.00	0.00	0.00	0.01	0.00
14.75	2.00	0.00	0.00	0.01	0.00	14.76	2.00	0.00	0.00	0.01	0.00
14.77	2.00	0.00	0.00	0.01	0.00	14.78	2.00	0.00	0.00	0.01	0.00
14.79	2.00	0.00	0.00	0.01	0.00	14.80	2.00	0.00	0.00	0.01	0.00
14.81	2.00	0.00	0.00	0.01	0.00	14.82	2.00	0.00	0.00	0.01	0.00
14.83	2.00	0.00	0.00	0.01	0.00	14.84	2.00	0.00	0.00	0.01	0.00
14.85	2.00	0.00	0.00	0.01	0.00	14.86	2.00	0.00	0.00	0.01	0.00
14.87	2.00	0.00	0.00	0.01	0.00	14.88	2.00	0.00	0.00	0.01	0.00
14.89	2.00	0.00	0.00	0.01	0.00	14.90	2.00	0.00	0.00	0.01	0.00
14.91	2.00	0.00	0.00	0.01	0.00	14.92	2.00	0.00	0.00	0.01	0.00
14.93	2.00	0.00	0.00	0.01	0.00	14.94	2.00	0.00	0.00	0.01	0.00
14.95	2.00	0.00	0.00	0.01	0.00	14.96	2.00	0.00	0.00	0.01	0.00
14.97	2.00	0.00	0.00	0.01	0.00	14.98	2.00	0.00	0.00	0.01	0.00
14.99	2.00	0.00	0.00	0.01	0.00	15.00	2.00	0.00	0.00	0.01	0.00
15.01	2.00	0.00	0.00	0.01	0.00	15.02	2.00	0.00	0.00	0.01	0.00
15.03	2.00	0.00	0.00	0.01	0.00	15.04	2.00	0.00	0.00	0.01	0.00
15.05	2.00	0.00	0.00	0.01	0.00	15.06	2.00	0.00	0.00	0.01	0.00
15.07	2.00	0.00	0.00	0.01	0.00	15.08	2.00	0.00	0.00	0.01	0.00
15.09	2.00	0.00	0.00	0.01	0.00	15.10	2.00	0.00	0.00	0.01	0.00
15.11	2.00	0.00	0.00	0.01	0.00	15.12	2.00	0.00	0.00	0.01	0.00
15.13	2.00	0.00	0.00	0.01	0.00	15.14	2.00	0.00	0.00	0.01	0.00
15.15	2.00	0.00	0.00	0.01	0.00	15.16	2.00	0.00	0.00	0.01	0.00
15.17	2.00	0.00	0.00	0.01	0.00	15.18	2.00	0.00	0.00	0.01	0.00
15.19	2.00	0.00	0.00	0.01	0.00	15.20	2.00	0.00	0.00	0.01	0.00
15.21	2.00	0.00	0.00	0.01	0.00	15.22	2.00	0.00	0.00	0.01	0.00
15.23	2.00	0.00	0.00	0.01	0.00	15.24	2.00	0.00	0.00	0.01	0.00
15.25	2.00	0.00	0.00	0.01	0.00	15.26	2.00	0.00	0.00	0.01	0.00
15.27	2.00	0.00	0.00	0.01	0.00	15.28	2.00	0.00	0.00	0.01	0.00
15.29	2.00	0.00	0.00	0.01	0.00	15.30	2.00	0.00	0.00	0.01	0.00
15.31	2.00	0.00	0.00	0.01	0.00	15.32	2.00	0.00	0.00	0.01	0.00
15.33	2.00	0.00	0.00	0.01	0.00	15.34	2.00	0.00	0.00	0.01	0.00
15.35	2.00	0.00	0.00	0.01	0.00	15.36	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.37	2.00	0.00	0.00	0.01	0.00	15.38	2.00	0.00	0.00	0.01	0.00
15.39	2.00	0.00	0.00	0.01	0.00	15.40	2.00	0.00	0.00	0.01	0.00
15.41	2.00	0.00	0.00	0.01	0.00	15.42	2.00	0.00	0.00	0.01	0.00
15.43	2.00	0.00	0.00	0.01	0.00	15.44	2.00	0.00	0.00	0.01	0.00
15.45	2.00	0.00	0.00	0.01	0.00	15.46	2.00	0.00	0.00	0.01	0.00
15.47	2.00	0.00	0.00	0.01	0.00	15.48	2.00	0.00	0.00	0.01	0.00
15.49	2.00	0.00	0.00	0.01	0.00	15.50	2.00	0.00	0.00	0.01	0.00
15.51	2.00	0.00	0.00	0.01	0.00	15.52	2.00	0.00	0.00	0.01	0.00
15.53	2.00	0.00	0.00	0.01	0.00	15.54	2.00	0.00	0.00	0.01	0.00
15.55	2.00	0.00	0.00	0.01	0.00	15.56	2.00	0.00	0.00	0.01	0.00
15.57	2.00	0.00	0.00	0.01	0.00	15.58	2.00	0.00	0.00	0.01	0.00
15.59	2.00	0.00	0.00	0.01	0.00	15.60	2.00	0.00	0.00	0.01	0.00
15.61	2.00	0.00	0.00	0.01	0.00	15.62	2.00	0.00	0.00	0.01	0.00
15.63	2.00	0.00	0.00	0.01	0.00	15.64	2.00	0.00	0.00	0.01	0.00
15.65	2.00	0.00	0.00	0.01	0.00	15.66	2.00	0.00	0.00	0.01	0.00
15.67	2.00	0.00	0.00	0.01	0.00	15.68	2.00	0.00	0.00	0.01	0.00
15.69	2.00	0.00	0.00	0.01	0.00	15.70	2.00	0.00	0.00	0.01	0.00
15.71	2.00	0.00	0.00	0.01	0.00	15.72	2.00	0.00	0.00	0.01	0.00
15.73	2.00	0.00	0.00	0.01	0.00	15.74	2.00	0.00	0.00	0.01	0.00
15.75	2.00	0.00	0.00	0.01	0.00	15.76	2.00	0.00	0.00	0.01	0.00
15.77	2.00	0.00	0.00	0.01	0.00	15.78	2.00	0.00	0.00	0.01	0.00
15.79	2.00	0.00	0.00	0.01	0.00	15.80	2.00	0.00	0.00	0.01	0.00
15.81	2.00	0.00	0.00	0.01	0.00	15.82	2.00	0.00	0.00	0.01	0.00
15.83	2.00	0.00	0.00	0.01	0.00	15.84	2.00	0.00	0.00	0.01	0.00
15.85	2.00	0.00	0.00	0.01	0.00	15.86	2.00	0.00	0.00	0.01	0.00
15.87	2.00	0.00	0.00	0.01	0.00	15.88	2.00	0.00	0.00	0.01	0.00
15.89	2.00	0.00	0.00	0.01	0.00	15.90	2.00	0.00	0.00	0.01	0.00
15.91	2.00	0.00	0.00	0.01	0.00	15.92	2.00	0.00	0.00	0.01	0.00
15.93	2.00	0.00	0.00	0.01	0.00	15.94	2.00	0.00	0.00	0.01	0.00
15.95	2.00	0.00	0.00	0.01	0.00	15.96	2.00	0.00	0.00	0.01	0.00
15.97	2.00	0.00	0.00	0.01	0.00	15.98	2.00	0.00	0.00	0.01	0.00
15.99	2.00	0.00	0.00	0.01	0.00	16.00	2.00	0.00	0.00	0.01	0.00
16.01	2.00	0.00	0.00	0.01	0.00	16.02	2.00	0.00	0.00	0.01	0.00
16.03	2.00	0.00	0.00	0.01	0.00	16.04	2.00	0.00	0.00	0.01	0.00
16.05	2.00	0.00	0.00	0.01	0.00	16.06	2.00	0.00	0.00	0.01	0.00
16.07	2.00	0.00	0.00	0.01	0.00	16.08	2.00	0.00	0.00	0.01	0.00
16.09	2.00	0.00	0.00	0.01	0.00	16.10	2.00	0.00	0.00	0.01	0.00
16.11	2.00	0.00	0.00	0.01	0.00	16.12	2.00	0.00	0.00	0.01	0.00
16.13	2.00	0.00	0.00	0.01	0.00	16.14	2.00	0.00	0.00	0.01	0.00
16.15	2.00	0.00	0.00	0.01	0.00	16.16	2.00	0.00	0.00	0.01	0.00
16.17	2.00	0.00	0.00	0.01	0.00	16.18	2.00	0.00	0.00	0.01	0.00
16.19	2.00	0.00	0.00	0.01	0.00	16.20	2.00	0.00	0.00	0.01	0.00
16.21	2.00	0.00	0.00	0.01	0.00	16.22	2.00	0.00	0.00	0.01	0.00
16.23	2.00	0.00	0.00	0.01	0.00	16.24	2.00	0.00	0.00	0.01	0.00
16.25	2.00	0.00	0.00	0.01	0.00	16.26	2.00	0.00	0.00	0.01	0.00
16.27	2.00	0.00	0.00	0.01	0.00	16.28	2.00	0.00	0.00	0.01	0.00
16.29	2.00	0.00	0.00	0.01	0.00	16.30	2.00	0.00	0.00	0.01	0.00
16.31	2.00	0.00	0.00	0.01	0.00	16.32	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.33	2.00	0.00	0.00	0.01	0.00	16.34	0.62	0.38	0.68	0.01	0.01
16.35	0.67	0.33	0.80	0.01	0.01	16.36	0.68	0.32	0.86	0.01	0.01
16.37	0.72	0.28	1.03	0.01	0.01	16.38	0.74	0.26	1.12	0.01	0.00
16.39	0.77	0.23	1.38	0.01	0.00	16.40	0.78	0.22	1.46	0.01	0.00
16.41	0.80	0.20	1.72	0.01	0.00	16.42	0.80	0.20	1.70	0.01	0.00
16.43	0.81	0.19	1.80	0.01	0.00	16.44	0.79	0.21	1.55	0.01	0.00
16.45	0.78	0.22	1.46	0.01	0.00	16.46	0.75	0.25	1.22	0.01	0.00
16.47	0.73	0.27	1.05	0.01	0.00	16.48	0.71	0.29	0.96	0.01	0.01
16.49	0.68	0.32	0.83	0.01	0.01	16.50	0.67	0.33	0.80	0.01	0.01
16.51	0.65	0.35	0.76	0.01	0.01	16.52	0.66	0.34	0.77	0.01	0.01
16.53	0.65	0.35	0.75	0.01	0.01	16.54	0.63	0.37	0.70	0.01	0.01
16.55	0.62	0.38	0.67	0.01	0.01						

Overall liquefaction potential: 0.42

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

GeoLogismiki
Geotechnical Engineers
Merarhias 56
http://www.geologismiki.gr

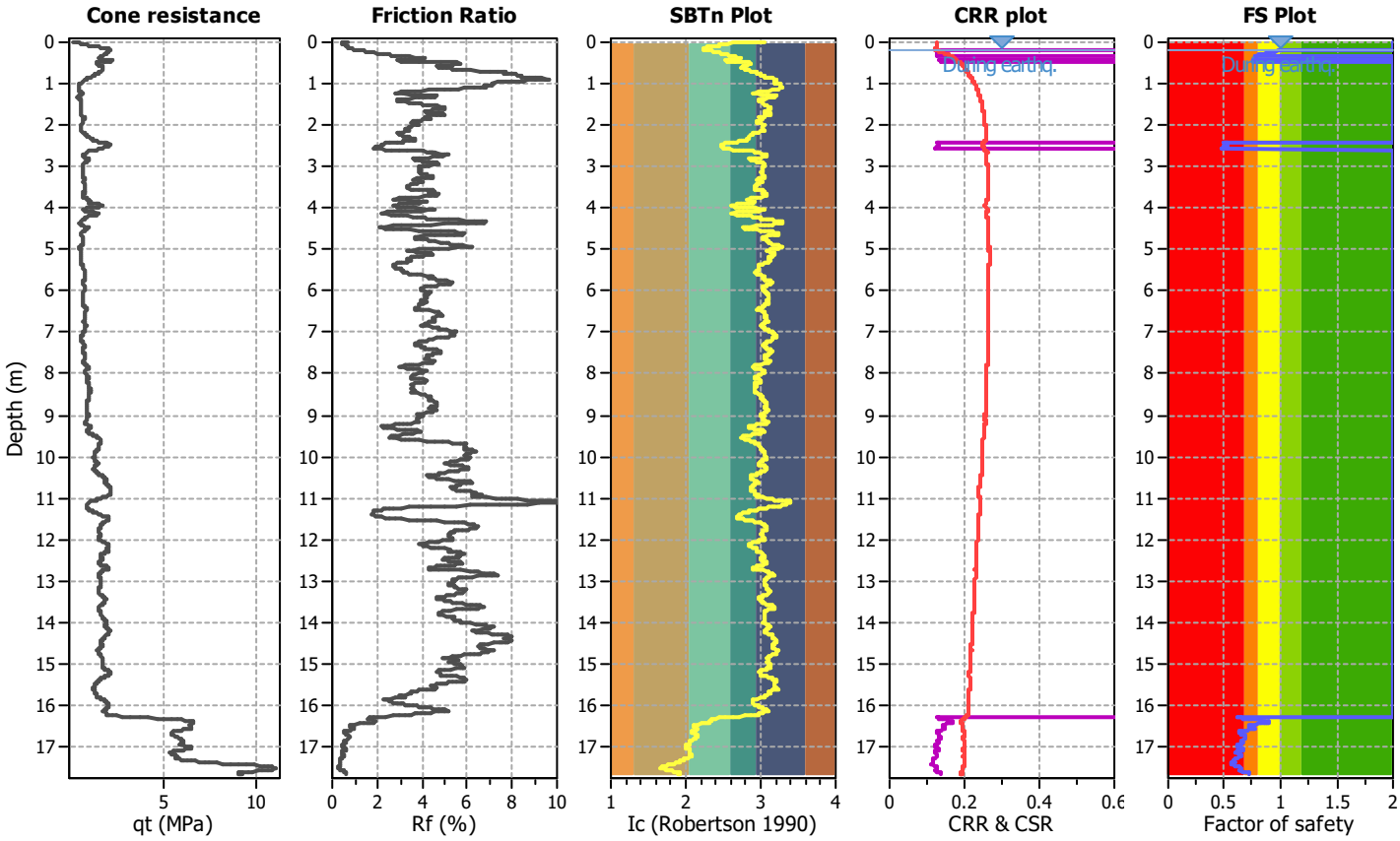
LIQUEFACTION ANALYSIS REPORT

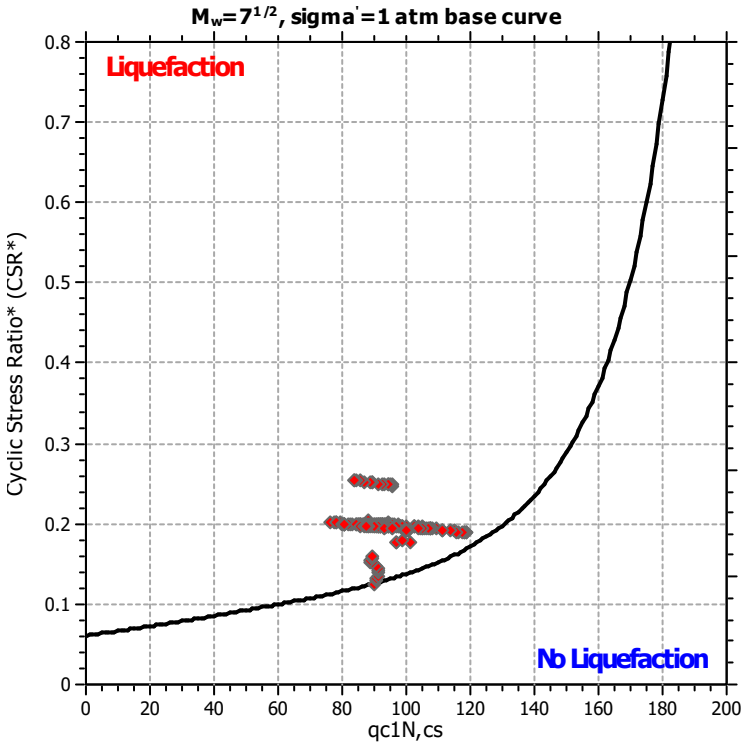
Project title : **Location :**

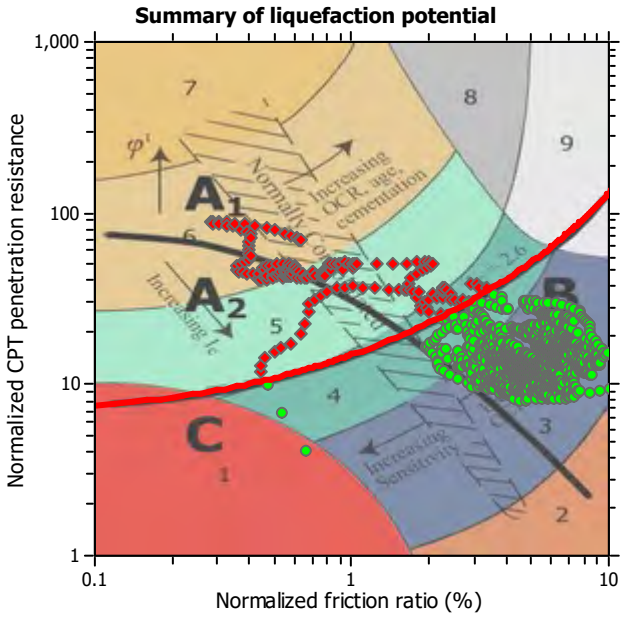
CPT file : SP003_02

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

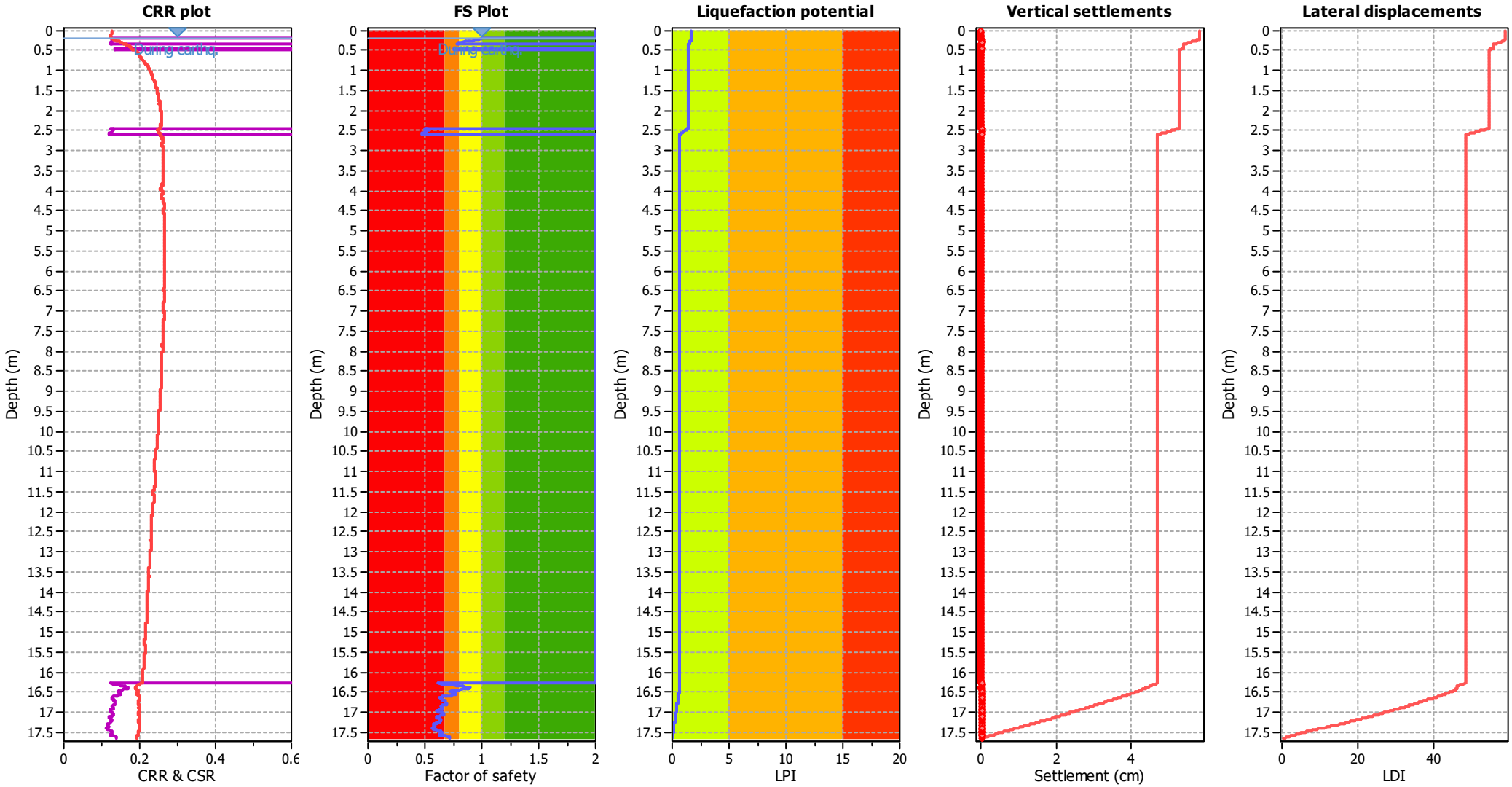






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.01	2.00	0.00	0.00	0.01	0.00	0.02	2.00	0.00	0.00	0.01	0.00
0.03	2.00	0.00	0.00	0.01	0.00	0.04	2.00	0.00	0.00	0.01	0.00
0.05	2.00	0.00	0.00	0.01	0.00	0.06	2.00	0.00	0.00	0.01	0.00
0.07	2.00	0.00	0.00	0.01	0.00	0.08	2.00	0.00	0.00	0.01	0.00
0.09	2.00	0.00	0.00	0.01	0.00	0.10	2.00	0.00	0.00	0.01	0.00
0.11	2.00	0.00	0.00	0.01	0.00	0.12	2.00	0.00	0.00	0.01	0.00
0.13	2.00	0.00	0.00	0.01	0.00	0.14	2.00	0.00	0.00	0.01	0.00
0.15	2.00	0.00	0.00	0.01	0.00	0.16	2.00	0.00	0.00	0.01	0.00
0.17	2.00	0.00	0.00	0.01	0.00	0.18	2.00	0.00	0.00	0.01	0.00
0.19	2.00	0.00	0.00	0.01	0.00	0.20	2.00	0.00	0.00	0.01	0.00
0.21	1.00	0.00	0.00	0.01	0.00	0.22	0.98	0.00	0.00	0.01	0.00
0.23	0.95	0.00	0.00	0.01	0.00	0.24	0.94	0.00	0.00	0.01	0.01
0.25	0.92	0.00	0.00	0.01	0.01	0.26	0.90	0.00	0.00	0.01	0.01
0.27	0.88	0.00	0.00	0.01	0.01	0.28	0.86	0.00	0.00	0.01	0.01
0.29	0.83	0.00	0.00	0.01	0.02	0.30	0.82	0.00	0.00	0.01	0.02
0.31	0.80	0.00	0.00	0.01	0.02	0.32	0.79	0.00	0.00	0.01	0.02
0.33	0.78	0.00	0.00	0.01	0.02	0.34	2.00	0.00	0.00	0.01	0.00
0.35	2.00	0.00	0.00	0.01	0.00	0.36	2.00	0.00	0.00	0.01	0.00
0.37	2.00	0.00	0.00	0.01	0.00	0.38	2.00	0.00	0.00	0.01	0.00
0.39	2.00	0.00	0.00	0.01	0.00	0.40	2.00	0.00	0.00	0.01	0.00
0.41	2.00	0.00	0.00	0.01	0.00	0.42	2.00	0.00	0.00	0.01	0.00
0.43	2.00	0.00	0.00	0.01	0.00	0.44	0.76	0.00	0.00	0.01	0.02
0.45	0.75	0.00	0.00	0.01	0.02	0.46	0.79	0.00	0.00	0.01	0.02
0.47	0.76	0.00	0.00	0.01	0.02	0.48	2.00	0.00	0.00	0.01	0.00
0.49	2.00	0.00	0.00	0.01	0.00	0.50	2.00	0.00	0.00	0.01	0.00
0.51	2.00	0.00	0.00	0.01	0.00	0.52	2.00	0.00	0.00	0.01	0.00
0.53	2.00	0.00	0.00	0.01	0.00	0.54	2.00	0.00	0.00	0.01	0.00
0.55	2.00	0.00	0.00	0.01	0.00	0.56	2.00	0.00	0.00	0.01	0.00
0.57	2.00	0.00	0.00	0.01	0.00	0.58	2.00	0.00	0.00	0.01	0.00
0.59	2.00	0.00	0.00	0.01	0.00	0.60	2.00	0.00	0.00	0.01	0.00
0.61	2.00	0.00	0.00	0.01	0.00	0.62	2.00	0.00	0.00	0.01	0.00
0.63	2.00	0.00	0.00	0.01	0.00	0.64	2.00	0.00	0.00	0.01	0.00
0.65	2.00	0.00	0.00	0.01	0.00	0.66	2.00	0.00	0.00	0.01	0.00
0.67	2.00	0.00	0.00	0.01	0.00	0.68	2.00	0.00	0.00	0.01	0.00
0.69	2.00	0.00	0.00	0.01	0.00	0.70	2.00	0.00	0.00	0.01	0.00
0.71	2.00	0.00	0.00	0.01	0.00	0.72	2.00	0.00	0.00	0.01	0.00
0.73	2.00	0.00	0.00	0.01	0.00	0.74	2.00	0.00	0.00	0.01	0.00
0.75	2.00	0.00	0.00	0.01	0.00	0.76	2.00	0.00	0.00	0.01	0.00
0.77	2.00	0.00	0.00	0.01	0.00	0.78	2.00	0.00	0.00	0.01	0.00
0.79	2.00	0.00	0.00	0.01	0.00	0.80	2.00	0.00	0.00	0.01	0.00
0.81	2.00	0.00	0.00	0.01	0.00	0.82	2.00	0.00	0.00	0.01	0.00
0.83	2.00	0.00	0.00	0.01	0.00	0.84	2.00	0.00	0.00	0.01	0.00
0.85	2.00	0.00	0.00	0.01	0.00	0.86	2.00	0.00	0.00	0.01	0.00
0.87	2.00	0.00	0.00	0.01	0.00	0.88	2.00	0.00	0.00	0.01	0.00
0.89	2.00	0.00	0.00	0.01	0.00	0.90	2.00	0.00	0.00	0.01	0.00
0.91	2.00	0.00	0.00	0.01	0.00	0.92	2.00	0.00	0.00	0.01	0.00
0.93	2.00	0.00	0.00	0.01	0.00	0.94	2.00	0.00	0.00	0.01	0.00
0.95	2.00	0.00	0.00	0.01	0.00	0.96	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.97	2.00	0.00	0.00	0.01	0.00	0.98	2.00	0.00	0.00	0.01	0.00
0.99	2.00	0.00	0.00	0.01	0.00	1.00	2.00	0.00	0.00	0.01	0.00
1.01	2.00	0.00	0.00	0.01	0.00	1.02	2.00	0.00	0.00	0.01	0.00
1.03	2.00	0.00	0.00	0.01	0.00	1.04	2.00	0.00	0.00	0.01	0.00
1.05	2.00	0.00	0.00	0.01	0.00	1.06	2.00	0.00	0.00	0.01	0.00
1.07	2.00	0.00	0.00	0.01	0.00	1.08	2.00	0.00	0.00	0.01	0.00
1.09	2.00	0.00	0.00	0.01	0.00	1.10	2.00	0.00	0.00	0.01	0.00
1.11	2.00	0.00	0.00	0.01	0.00	1.12	2.00	0.00	0.00	0.01	0.00
1.13	2.00	0.00	0.00	0.01	0.00	1.14	2.00	0.00	0.00	0.01	0.00
1.15	2.00	0.00	0.00	0.01	0.00	1.16	2.00	0.00	0.00	0.01	0.00
1.17	2.00	0.00	0.00	0.01	0.00	1.18	2.00	0.00	0.00	0.01	0.00
1.19	2.00	0.00	0.00	0.01	0.00	1.20	2.00	0.00	0.00	0.01	0.00
1.21	2.00	0.00	0.00	0.01	0.00	1.22	2.00	0.00	0.00	0.01	0.00
1.23	2.00	0.00	0.00	0.01	0.00	1.24	2.00	0.00	0.00	0.01	0.00
1.25	2.00	0.00	0.00	0.01	0.00	1.26	2.00	0.00	0.00	0.01	0.00
1.27	2.00	0.00	0.00	0.01	0.00	1.28	2.00	0.00	0.00	0.01	0.00
1.29	2.00	0.00	0.00	0.01	0.00	1.30	2.00	0.00	0.00	0.01	0.00
1.31	2.00	0.00	0.00	0.01	0.00	1.32	2.00	0.00	0.00	0.01	0.00
1.33	2.00	0.00	0.00	0.01	0.00	1.34	2.00	0.00	0.00	0.01	0.00
1.35	2.00	0.00	0.00	0.01	0.00	1.36	2.00	0.00	0.00	0.01	0.00
1.37	2.00	0.00	0.00	0.01	0.00	1.38	2.00	0.00	0.00	0.01	0.00
1.39	2.00	0.00	0.00	0.01	0.00	1.40	2.00	0.00	0.00	0.01	0.00
1.41	2.00	0.00	0.00	0.01	0.00	1.42	2.00	0.00	0.00	0.01	0.00
1.43	2.00	0.00	0.00	0.01	0.00	1.44	2.00	0.00	0.00	0.01	0.00
1.45	2.00	0.00	0.00	0.01	0.00	1.46	2.00	0.00	0.00	0.01	0.00
1.47	2.00	0.00	0.00	0.01	0.00	1.48	2.00	0.00	0.00	0.01	0.00
1.49	2.00	0.00	0.00	0.01	0.00	1.50	2.00	0.00	0.00	0.01	0.00
1.51	2.00	0.00	0.00	0.01	0.00	1.52	2.00	0.00	0.00	0.01	0.00
1.53	2.00	0.00	0.00	0.01	0.00	1.54	2.00	0.00	0.00	0.01	0.00
1.55	2.00	0.00	0.00	0.01	0.00	1.56	2.00	0.00	0.00	0.01	0.00
1.57	2.00	0.00	0.00	0.01	0.00	1.58	2.00	0.00	0.00	0.01	0.00
1.59	2.00	0.00	0.00	0.01	0.00	1.60	2.00	0.00	0.00	0.01	0.00
1.61	2.00	0.00	0.00	0.01	0.00	1.62	2.00	0.00	0.00	0.01	0.00
1.63	2.00	0.00	0.00	0.01	0.00	1.64	2.00	0.00	0.00	0.01	0.00
1.65	2.00	0.00	0.00	0.01	0.00	1.66	2.00	0.00	0.00	0.01	0.00
1.67	2.00	0.00	0.00	0.01	0.00	1.68	2.00	0.00	0.00	0.01	0.00
1.69	2.00	0.00	0.00	0.01	0.00	1.70	2.00	0.00	0.00	0.01	0.00
1.71	2.00	0.00	0.00	0.01	0.00	1.72	2.00	0.00	0.00	0.01	0.00
1.73	2.00	0.00	0.00	0.01	0.00	1.74	2.00	0.00	0.00	0.01	0.00
1.75	2.00	0.00	0.00	0.01	0.00	1.76	2.00	0.00	0.00	0.01	0.00
1.77	2.00	0.00	0.00	0.01	0.00	1.78	2.00	0.00	0.00	0.01	0.00
1.79	2.00	0.00	0.00	0.01	0.00	1.80	2.00	0.00	0.00	0.01	0.00
1.81	2.00	0.00	0.00	0.01	0.00	1.82	2.00	0.00	0.00	0.01	0.00
1.83	2.00	0.00	0.00	0.01	0.00	1.84	2.00	0.00	0.00	0.01	0.00
1.85	2.00	0.00	0.00	0.01	0.00	1.86	2.00	0.00	0.00	0.01	0.00
1.87	2.00	0.00	0.00	0.01	0.00	1.88	2.00	0.00	0.00	0.01	0.00
1.89	2.00	0.00	0.00	0.01	0.00	1.90	2.00	0.00	0.00	0.01	0.00
1.91	2.00	0.00	0.00	0.01	0.00	1.92	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.93	2.00	0.00	0.00	0.01	0.00	1.94	2.00	0.00	0.00	0.01	0.00
1.95	2.00	0.00	0.00	0.01	0.00	1.96	2.00	0.00	0.00	0.01	0.00
1.97	2.00	0.00	0.00	0.01	0.00	1.98	2.00	0.00	0.00	0.01	0.00
1.99	2.00	0.00	0.00	0.01	0.00	2.00	2.00	0.00	0.00	0.01	0.00
2.01	2.00	0.00	0.00	0.01	0.00	2.02	2.00	0.00	0.00	0.01	0.00
2.03	2.00	0.00	0.00	0.01	0.00	2.04	2.00	0.00	0.00	0.01	0.00
2.05	2.00	0.00	0.00	0.01	0.00	2.06	2.00	0.00	0.00	0.01	0.00
2.07	2.00	0.00	0.00	0.01	0.00	2.08	2.00	0.00	0.00	0.01	0.00
2.09	2.00	0.00	0.00	0.01	0.00	2.10	2.00	0.00	0.00	0.01	0.00
2.11	2.00	0.00	0.00	0.01	0.00	2.12	2.00	0.00	0.00	0.01	0.00
2.13	2.00	0.00	0.00	0.01	0.00	2.14	2.00	0.00	0.00	0.01	0.00
2.15	2.00	0.00	0.00	0.01	0.00	2.16	2.00	0.00	0.00	0.01	0.00
2.17	2.00	0.00	0.00	0.01	0.00	2.18	2.00	0.00	0.00	0.01	0.00
2.19	2.00	0.00	0.00	0.01	0.00	2.20	2.00	0.00	0.00	0.01	0.00
2.21	2.00	0.00	0.00	0.01	0.00	2.22	2.00	0.00	0.00	0.01	0.00
2.23	2.00	0.00	0.00	0.01	0.00	2.24	2.00	0.00	0.00	0.01	0.00
2.25	2.00	0.00	0.00	0.01	0.00	2.26	2.00	0.00	0.00	0.01	0.00
2.27	2.00	0.00	0.00	0.01	0.00	2.28	2.00	0.00	0.00	0.01	0.00
2.29	2.00	0.00	0.00	0.01	0.00	2.30	2.00	0.00	0.00	0.01	0.00
2.31	2.00	0.00	0.00	0.01	0.00	2.32	2.00	0.00	0.00	0.01	0.00
2.33	2.00	0.00	0.00	0.01	0.00	2.34	2.00	0.00	0.00	0.01	0.00
2.35	2.00	0.00	0.00	0.01	0.00	2.36	2.00	0.00	0.00	0.01	0.00
2.37	2.00	0.00	0.00	0.01	0.00	2.38	2.00	0.00	0.00	0.01	0.00
2.39	2.00	0.00	0.00	0.01	0.00	2.40	2.00	0.00	0.00	0.01	0.00
2.41	2.00	0.00	0.00	0.01	0.00	2.42	2.00	0.00	0.00	0.01	0.00
2.43	2.00	0.00	0.00	0.01	0.00	2.44	0.50	0.00	0.00	0.01	0.04
2.45	0.52	0.00	0.00	0.01	0.04	2.46	0.53	0.00	0.00	0.01	0.04
2.47	0.53	0.00	0.00	0.01	0.04	2.48	0.53	0.00	0.00	0.01	0.04
2.49	0.53	0.00	0.00	0.01	0.04	2.50	0.52	0.00	0.00	0.01	0.04
2.51	0.52	0.00	0.00	0.01	0.04	2.52	0.51	0.00	0.00	0.01	0.04
2.53	0.50	0.00	0.00	0.01	0.04	2.54	0.50	0.00	0.00	0.01	0.04
2.55	0.49	0.00	0.00	0.01	0.04	2.56	0.48	0.00	0.00	0.01	0.05
2.57	0.47	0.00	0.00	0.01	0.05	2.58	0.47	0.00	0.00	0.01	0.05
2.59	0.47	0.00	0.00	0.01	0.05	2.60	2.00	0.00	0.00	0.01	0.00
2.61	2.00	0.00	0.00	0.01	0.00	2.62	2.00	0.00	0.00	0.01	0.00
2.63	2.00	0.00	0.00	0.01	0.00	2.64	2.00	0.00	0.00	0.01	0.00
2.65	2.00	0.00	0.00	0.01	0.00	2.66	2.00	0.00	0.00	0.01	0.00
2.67	2.00	0.00	0.00	0.01	0.00	2.68	2.00	0.00	0.00	0.01	0.00
2.69	2.00	0.00	0.00	0.01	0.00	2.70	2.00	0.00	0.00	0.01	0.00
2.71	2.00	0.00	0.00	0.01	0.00	2.72	2.00	0.00	0.00	0.01	0.00
2.73	2.00	0.00	0.00	0.01	0.00	2.74	2.00	0.00	0.00	0.01	0.00
2.75	2.00	0.00	0.00	0.01	0.00	2.76	2.00	0.00	0.00	0.01	0.00
2.77	2.00	0.00	0.00	0.01	0.00	2.78	2.00	0.00	0.00	0.01	0.00
2.79	2.00	0.00	0.00	0.01	0.00	2.80	2.00	0.00	0.00	0.01	0.00
2.81	2.00	0.00	0.00	0.01	0.00	2.82	2.00	0.00	0.00	0.01	0.00
2.83	2.00	0.00	0.00	0.01	0.00	2.84	2.00	0.00	0.00	0.01	0.00
2.85	2.00	0.00	0.00	0.01	0.00	2.86	2.00	0.00	0.00	0.01	0.00
2.87	2.00	0.00	0.00	0.01	0.00	2.88	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.89	2.00	0.00	0.00	0.01	0.00	2.90	2.00	0.00	0.00	0.01	0.00
2.91	2.00	0.00	0.00	0.01	0.00	2.92	2.00	0.00	0.00	0.01	0.00
2.93	2.00	0.00	0.00	0.01	0.00	2.94	2.00	0.00	0.00	0.01	0.00
2.95	2.00	0.00	0.00	0.01	0.00	2.96	2.00	0.00	0.00	0.01	0.00
2.97	2.00	0.00	0.00	0.01	0.00	2.98	2.00	0.00	0.00	0.01	0.00
2.99	2.00	0.00	0.00	0.01	0.00	3.00	2.00	0.00	0.00	0.01	0.00
3.01	2.00	0.00	0.00	0.01	0.00	3.02	2.00	0.00	0.00	0.01	0.00
3.03	2.00	0.00	0.00	0.01	0.00	3.04	2.00	0.00	0.00	0.01	0.00
3.05	2.00	0.00	0.00	0.01	0.00	3.06	2.00	0.00	0.00	0.01	0.00
3.07	2.00	0.00	0.00	0.01	0.00	3.08	2.00	0.00	0.00	0.01	0.00
3.09	2.00	0.00	0.00	0.01	0.00	3.10	2.00	0.00	0.00	0.01	0.00
3.11	2.00	0.00	0.00	0.01	0.00	3.12	2.00	0.00	0.00	0.01	0.00
3.13	2.00	0.00	0.00	0.01	0.00	3.14	2.00	0.00	0.00	0.01	0.00
3.15	2.00	0.00	0.00	0.01	0.00	3.16	2.00	0.00	0.00	0.01	0.00
3.17	2.00	0.00	0.00	0.01	0.00	3.18	2.00	0.00	0.00	0.01	0.00
3.19	2.00	0.00	0.00	0.01	0.00	3.20	2.00	0.00	0.00	0.01	0.00
3.21	2.00	0.00	0.00	0.01	0.00	3.22	2.00	0.00	0.00	0.01	0.00
3.23	2.00	0.00	0.00	0.01	0.00	3.24	2.00	0.00	0.00	0.01	0.00
3.25	2.00	0.00	0.00	0.01	0.00	3.26	2.00	0.00	0.00	0.01	0.00
3.27	2.00	0.00	0.00	0.01	0.00	3.28	2.00	0.00	0.00	0.01	0.00
3.29	2.00	0.00	0.00	0.01	0.00	3.30	2.00	0.00	0.00	0.01	0.00
3.31	2.00	0.00	0.00	0.01	0.00	3.32	2.00	0.00	0.00	0.01	0.00
3.33	2.00	0.00	0.00	0.01	0.00	3.34	2.00	0.00	0.00	0.01	0.00
3.35	2.00	0.00	0.00	0.01	0.00	3.36	2.00	0.00	0.00	0.01	0.00
3.37	2.00	0.00	0.00	0.01	0.00	3.38	2.00	0.00	0.00	0.01	0.00
3.39	2.00	0.00	0.00	0.01	0.00	3.40	2.00	0.00	0.00	0.01	0.00
3.41	2.00	0.00	0.00	0.01	0.00	3.42	2.00	0.00	0.00	0.01	0.00
3.43	2.00	0.00	0.00	0.01	0.00	3.44	2.00	0.00	0.00	0.01	0.00
3.45	2.00	0.00	0.00	0.01	0.00	3.46	2.00	0.00	0.00	0.01	0.00
3.47	2.00	0.00	0.00	0.01	0.00	3.48	2.00	0.00	0.00	0.01	0.00
3.49	2.00	0.00	0.00	0.01	0.00	3.50	2.00	0.00	0.00	0.01	0.00
3.51	2.00	0.00	0.00	0.01	0.00	3.52	2.00	0.00	0.00	0.01	0.00
3.53	2.00	0.00	0.00	0.01	0.00	3.54	2.00	0.00	0.00	0.01	0.00
3.55	2.00	0.00	0.00	0.01	0.00	3.56	2.00	0.00	0.00	0.01	0.00
3.57	2.00	0.00	0.00	0.01	0.00	3.58	2.00	0.00	0.00	0.01	0.00
3.59	2.00	0.00	0.00	0.01	0.00	3.60	2.00	0.00	0.00	0.01	0.00
3.61	2.00	0.00	0.00	0.01	0.00	3.62	2.00	0.00	0.00	0.01	0.00
3.63	2.00	0.00	0.00	0.01	0.00	3.64	2.00	0.00	0.00	0.01	0.00
3.65	2.00	0.00	0.00	0.01	0.00	3.66	2.00	0.00	0.00	0.01	0.00
3.67	2.00	0.00	0.00	0.01	0.00	3.68	2.00	0.00	0.00	0.01	0.00
3.69	2.00	0.00	0.00	0.01	0.00	3.70	2.00	0.00	0.00	0.01	0.00
3.71	2.00	0.00	0.00	0.01	0.00	3.72	2.00	0.00	0.00	0.01	0.00
3.73	2.00	0.00	0.00	0.01	0.00	3.74	2.00	0.00	0.00	0.01	0.00
3.75	2.00	0.00	0.00	0.01	0.00	3.76	2.00	0.00	0.00	0.01	0.00
3.77	2.00	0.00	0.00	0.01	0.00	3.78	2.00	0.00	0.00	0.01	0.00
3.79	2.00	0.00	0.00	0.01	0.00	3.80	2.00	0.00	0.00	0.01	0.00
3.81	2.00	0.00	0.00	0.01	0.00	3.82	2.00	0.00	0.00	0.01	0.00
3.83	2.00	0.00	0.00	0.01	0.00	3.84	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.85	2.00	0.00	0.00	0.01	0.00	3.86	2.00	0.00	0.00	0.01	0.00
3.87	2.00	0.00	0.00	0.01	0.00	3.88	2.00	0.00	0.00	0.01	0.00
3.89	2.00	0.00	0.00	0.01	0.00	3.90	2.00	0.00	0.00	0.01	0.00
3.91	2.00	0.00	0.00	0.01	0.00	3.92	2.00	0.00	0.00	0.01	0.00
3.93	2.00	0.00	0.00	0.01	0.00	3.94	2.00	0.00	0.00	0.01	0.00
3.95	2.00	0.00	0.00	0.01	0.00	3.96	2.00	0.00	0.00	0.01	0.00
3.97	2.00	0.00	0.00	0.01	0.00	3.98	2.00	0.00	0.00	0.01	0.00
3.99	2.00	0.00	0.00	0.01	0.00	4.00	2.00	0.00	0.00	0.01	0.00
4.01	2.00	0.00	0.00	0.01	0.00	4.02	2.00	0.00	0.00	0.01	0.00
4.03	2.00	0.00	0.00	0.01	0.00	4.04	2.00	0.00	0.00	0.01	0.00
4.05	2.00	0.00	0.00	0.01	0.00	4.06	2.00	0.00	0.00	0.01	0.00
4.07	2.00	0.00	0.00	0.01	0.00	4.08	2.00	0.00	0.00	0.01	0.00
4.09	2.00	0.00	0.00	0.01	0.00	4.10	2.00	0.00	0.00	0.01	0.00
4.11	2.00	0.00	0.00	0.01	0.00	4.12	2.00	0.00	0.00	0.01	0.00
4.13	2.00	0.00	0.00	0.01	0.00	4.14	2.00	0.00	0.00	0.01	0.00
4.15	2.00	0.00	0.00	0.01	0.00	4.16	2.00	0.00	0.00	0.01	0.00
4.17	2.00	0.00	0.00	0.01	0.00	4.18	2.00	0.00	0.00	0.01	0.00
4.19	2.00	0.00	0.00	0.01	0.00	4.20	2.00	0.00	0.00	0.01	0.00
4.21	2.00	0.00	0.00	0.01	0.00	4.22	2.00	0.00	0.00	0.01	0.00
4.23	2.00	0.00	0.00	0.01	0.00	4.24	2.00	0.00	0.00	0.01	0.00
4.25	2.00	0.00	0.00	0.01	0.00	4.26	2.00	0.00	0.00	0.01	0.00
4.27	2.00	0.00	0.00	0.01	0.00	4.28	2.00	0.00	0.00	0.01	0.00
4.29	2.00	0.00	0.00	0.01	0.00	4.30	2.00	0.00	0.00	0.01	0.00
4.31	2.00	0.00	0.00	0.01	0.00	4.32	2.00	0.00	0.00	0.01	0.00
4.33	2.00	0.00	0.00	0.01	0.00	4.34	2.00	0.00	0.00	0.01	0.00
4.35	2.00	0.00	0.00	0.01	0.00	4.36	2.00	0.00	0.00	0.01	0.00
4.37	2.00	0.00	0.00	0.01	0.00	4.38	2.00	0.00	0.00	0.01	0.00
4.39	2.00	0.00	0.00	0.01	0.00	4.40	2.00	0.00	0.00	0.01	0.00
4.41	2.00	0.00	0.00	0.01	0.00	4.42	2.00	0.00	0.00	0.01	0.00
4.43	2.00	0.00	0.00	0.01	0.00	4.44	2.00	0.00	0.00	0.01	0.00
4.45	2.00	0.00	0.00	0.01	0.00	4.46	2.00	0.00	0.00	0.01	0.00
4.47	2.00	0.00	0.00	0.01	0.00	4.48	2.00	0.00	0.00	0.01	0.00
4.49	2.00	0.00	0.00	0.01	0.00	4.50	2.00	0.00	0.00	0.01	0.00
4.51	2.00	0.00	0.00	0.01	0.00	4.52	2.00	0.00	0.00	0.01	0.00
4.53	2.00	0.00	0.00	0.01	0.00	4.54	2.00	0.00	0.00	0.01	0.00
4.55	2.00	0.00	0.00	0.01	0.00	4.56	2.00	0.00	0.00	0.01	0.00
4.57	2.00	0.00	0.00	0.01	0.00	4.58	2.00	0.00	0.00	0.01	0.00
4.59	2.00	0.00	0.00	0.01	0.00	4.60	2.00	0.00	0.00	0.01	0.00
4.61	2.00	0.00	0.00	0.01	0.00	4.62	2.00	0.00	0.00	0.01	0.00
4.63	2.00	0.00	0.00	0.01	0.00	4.64	2.00	0.00	0.00	0.01	0.00
4.65	2.00	0.00	0.00	0.01	0.00	4.66	2.00	0.00	0.00	0.01	0.00
4.67	2.00	0.00	0.00	0.01	0.00	4.68	2.00	0.00	0.00	0.01	0.00
4.69	2.00	0.00	0.00	0.01	0.00	4.70	2.00	0.00	0.00	0.01	0.00
4.71	2.00	0.00	0.00	0.01	0.00	4.72	2.00	0.00	0.00	0.01	0.00
4.73	2.00	0.00	0.00	0.01	0.00	4.74	2.00	0.00	0.00	0.01	0.00
4.75	2.00	0.00	0.00	0.01	0.00	4.76	2.00	0.00	0.00	0.01	0.00
4.77	2.00	0.00	0.00	0.01	0.00	4.78	2.00	0.00	0.00	0.01	0.00
4.79	2.00	0.00	0.00	0.01	0.00	4.80	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.81	2.00	0.00	0.00	0.01	0.00	4.82	2.00	0.00	0.00	0.01	0.00
4.83	2.00	0.00	0.00	0.01	0.00	4.84	2.00	0.00	0.00	0.01	0.00
4.85	2.00	0.00	0.00	0.01	0.00	4.86	2.00	0.00	0.00	0.01	0.00
4.87	2.00	0.00	0.00	0.01	0.00	4.88	2.00	0.00	0.00	0.01	0.00
4.89	2.00	0.00	0.00	0.01	0.00	4.90	2.00	0.00	0.00	0.01	0.00
4.91	2.00	0.00	0.00	0.01	0.00	4.92	2.00	0.00	0.00	0.01	0.00
4.93	2.00	0.00	0.00	0.01	0.00	4.94	2.00	0.00	0.00	0.01	0.00
4.95	2.00	0.00	0.00	0.01	0.00	4.96	2.00	0.00	0.00	0.01	0.00
4.97	2.00	0.00	0.00	0.01	0.00	4.98	2.00	0.00	0.00	0.01	0.00
4.99	2.00	0.00	0.00	0.01	0.00	5.00	2.00	0.00	0.00	0.01	0.00
5.01	2.00	0.00	0.00	0.01	0.00	5.02	2.00	0.00	0.00	0.01	0.00
5.03	2.00	0.00	0.00	0.01	0.00	5.04	2.00	0.00	0.00	0.01	0.00
5.05	2.00	0.00	0.00	0.01	0.00	5.06	2.00	0.00	0.00	0.01	0.00
5.07	2.00	0.00	0.00	0.01	0.00	5.08	2.00	0.00	0.00	0.01	0.00
5.09	2.00	0.00	0.00	0.01	0.00	5.10	2.00	0.00	0.00	0.01	0.00
5.11	2.00	0.00	0.00	0.01	0.00	5.12	2.00	0.00	0.00	0.01	0.00
5.13	2.00	0.00	0.00	0.01	0.00	5.14	2.00	0.00	0.00	0.01	0.00
5.15	2.00	0.00	0.00	0.01	0.00	5.16	2.00	0.00	0.00	0.01	0.00
5.17	2.00	0.00	0.00	0.01	0.00	5.18	2.00	0.00	0.00	0.01	0.00
5.19	2.00	0.00	0.00	0.01	0.00	5.20	2.00	0.00	0.00	0.01	0.00
5.21	2.00	0.00	0.00	0.01	0.00	5.22	2.00	0.00	0.00	0.01	0.00
5.23	2.00	0.00	0.00	0.01	0.00	5.24	2.00	0.00	0.00	0.01	0.00
5.25	2.00	0.00	0.00	0.01	0.00	5.26	2.00	0.00	0.00	0.01	0.00
5.27	2.00	0.00	0.00	0.01	0.00	5.28	2.00	0.00	0.00	0.01	0.00
5.29	2.00	0.00	0.00	0.01	0.00	5.30	2.00	0.00	0.00	0.01	0.00
5.31	2.00	0.00	0.00	0.01	0.00	5.32	2.00	0.00	0.00	0.01	0.00
5.33	2.00	0.00	0.00	0.01	0.00	5.34	2.00	0.00	0.00	0.01	0.00
5.35	2.00	0.00	0.00	0.01	0.00	5.36	2.00	0.00	0.00	0.01	0.00
5.37	2.00	0.00	0.00	0.01	0.00	5.38	2.00	0.00	0.00	0.01	0.00
5.39	2.00	0.00	0.00	0.01	0.00	5.40	2.00	0.00	0.00	0.01	0.00
5.41	2.00	0.00	0.00	0.01	0.00	5.42	2.00	0.00	0.00	0.01	0.00
5.43	2.00	0.00	0.00	0.01	0.00	5.44	2.00	0.00	0.00	0.01	0.00
5.45	2.00	0.00	0.00	0.01	0.00	5.46	2.00	0.00	0.00	0.01	0.00
5.47	2.00	0.00	0.00	0.01	0.00	5.48	2.00	0.00	0.00	0.01	0.00
5.49	2.00	0.00	0.00	0.01	0.00	5.50	2.00	0.00	0.00	0.01	0.00
5.51	2.00	0.00	0.00	0.01	0.00	5.52	2.00	0.00	0.00	0.01	0.00
5.53	2.00	0.00	0.00	0.01	0.00	5.54	2.00	0.00	0.00	0.01	0.00
5.55	2.00	0.00	0.00	0.01	0.00	5.56	2.00	0.00	0.00	0.01	0.00
5.57	2.00	0.00	0.00	0.01	0.00	5.58	2.00	0.00	0.00	0.01	0.00
5.59	2.00	0.00	0.00	0.01	0.00	5.60	2.00	0.00	0.00	0.01	0.00
5.61	2.00	0.00	0.00	0.01	0.00	5.62	2.00	0.00	0.00	0.01	0.00
5.63	2.00	0.00	0.00	0.01	0.00	5.64	2.00	0.00	0.00	0.01	0.00
5.65	2.00	0.00	0.00	0.01	0.00	5.66	2.00	0.00	0.00	0.01	0.00
5.67	2.00	0.00	0.00	0.01	0.00	5.68	2.00	0.00	0.00	0.01	0.00
5.69	2.00	0.00	0.00	0.01	0.00	5.70	2.00	0.00	0.00	0.01	0.00
5.71	2.00	0.00	0.00	0.01	0.00	5.72	2.00	0.00	0.00	0.01	0.00
5.73	2.00	0.00	0.00	0.01	0.00	5.74	2.00	0.00	0.00	0.01	0.00
5.75	2.00	0.00	0.00	0.01	0.00	5.76	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.77	2.00	0.00	0.00	0.01	0.00	5.78	2.00	0.00	0.00	0.01	0.00
5.79	2.00	0.00	0.00	0.01	0.00	5.80	2.00	0.00	0.00	0.01	0.00
5.81	2.00	0.00	0.00	0.01	0.00	5.82	2.00	0.00	0.00	0.01	0.00
5.83	2.00	0.00	0.00	0.01	0.00	5.84	2.00	0.00	0.00	0.01	0.00
5.85	2.00	0.00	0.00	0.01	0.00	5.86	2.00	0.00	0.00	0.01	0.00
5.87	2.00	0.00	0.00	0.01	0.00	5.88	2.00	0.00	0.00	0.01	0.00
5.89	2.00	0.00	0.00	0.01	0.00	5.90	2.00	0.00	0.00	0.01	0.00
5.91	2.00	0.00	0.00	0.01	0.00	5.92	2.00	0.00	0.00	0.01	0.00
5.93	2.00	0.00	0.00	0.01	0.00	5.94	2.00	0.00	0.00	0.01	0.00
5.95	2.00	0.00	0.00	0.01	0.00	5.96	2.00	0.00	0.00	0.01	0.00
5.97	2.00	0.00	0.00	0.01	0.00	5.98	2.00	0.00	0.00	0.01	0.00
5.99	2.00	0.00	0.00	0.01	0.00	6.00	2.00	0.00	0.00	0.01	0.00
6.01	2.00	0.00	0.00	0.01	0.00	6.02	2.00	0.00	0.00	0.01	0.00
6.03	2.00	0.00	0.00	0.01	0.00	6.04	2.00	0.00	0.00	0.01	0.00
6.05	2.00	0.00	0.00	0.01	0.00	6.06	2.00	0.00	0.00	0.01	0.00
6.07	2.00	0.00	0.00	0.01	0.00	6.08	2.00	0.00	0.00	0.01	0.00
6.09	2.00	0.00	0.00	0.01	0.00	6.10	2.00	0.00	0.00	0.01	0.00
6.11	2.00	0.00	0.00	0.01	0.00	6.12	2.00	0.00	0.00	0.01	0.00
6.13	2.00	0.00	0.00	0.01	0.00	6.14	2.00	0.00	0.00	0.01	0.00
6.15	2.00	0.00	0.00	0.01	0.00	6.16	2.00	0.00	0.00	0.01	0.00
6.17	2.00	0.00	0.00	0.01	0.00	6.18	2.00	0.00	0.00	0.01	0.00
6.19	2.00	0.00	0.00	0.01	0.00	6.20	2.00	0.00	0.00	0.01	0.00
6.21	2.00	0.00	0.00	0.01	0.00	6.22	2.00	0.00	0.00	0.01	0.00
6.23	2.00	0.00	0.00	0.01	0.00	6.24	2.00	0.00	0.00	0.01	0.00
6.25	2.00	0.00	0.00	0.01	0.00	6.26	2.00	0.00	0.00	0.01	0.00
6.27	2.00	0.00	0.00	0.01	0.00	6.28	2.00	0.00	0.00	0.01	0.00
6.29	2.00	0.00	0.00	0.01	0.00	6.30	2.00	0.00	0.00	0.01	0.00
6.31	2.00	0.00	0.00	0.01	0.00	6.32	2.00	0.00	0.00	0.01	0.00
6.33	2.00	0.00	0.00	0.01	0.00	6.34	2.00	0.00	0.00	0.01	0.00
6.35	2.00	0.00	0.00	0.01	0.00	6.36	2.00	0.00	0.00	0.01	0.00
6.37	2.00	0.00	0.00	0.01	0.00	6.38	2.00	0.00	0.00	0.01	0.00
6.39	2.00	0.00	0.00	0.01	0.00	6.40	2.00	0.00	0.00	0.01	0.00
6.41	2.00	0.00	0.00	0.01	0.00	6.42	2.00	0.00	0.00	0.01	0.00
6.43	2.00	0.00	0.00	0.01	0.00	6.44	2.00	0.00	0.00	0.01	0.00
6.45	2.00	0.00	0.00	0.01	0.00	6.46	2.00	0.00	0.00	0.01	0.00
6.47	2.00	0.00	0.00	0.01	0.00	6.48	2.00	0.00	0.00	0.01	0.00
6.49	2.00	0.00	0.00	0.01	0.00	6.50	2.00	0.00	0.00	0.01	0.00
6.51	2.00	0.00	0.00	0.01	0.00	6.52	2.00	0.00	0.00	0.01	0.00
6.53	2.00	0.00	0.00	0.01	0.00	6.54	2.00	0.00	0.00	0.01	0.00
6.55	2.00	0.00	0.00	0.01	0.00	6.56	2.00	0.00	0.00	0.01	0.00
6.57	2.00	0.00	0.00	0.01	0.00	6.58	2.00	0.00	0.00	0.01	0.00
6.59	2.00	0.00	0.00	0.01	0.00	6.60	2.00	0.00	0.00	0.01	0.00
6.61	2.00	0.00	0.00	0.01	0.00	6.62	2.00	0.00	0.00	0.01	0.00
6.63	2.00	0.00	0.00	0.01	0.00	6.64	2.00	0.00	0.00	0.01	0.00
6.65	2.00	0.00	0.00	0.01	0.00	6.66	2.00	0.00	0.00	0.01	0.00
6.67	2.00	0.00	0.00	0.01	0.00	6.68	2.00	0.00	0.00	0.01	0.00
6.69	2.00	0.00	0.00	0.01	0.00	6.70	2.00	0.00	0.00	0.01	0.00
6.71	2.00	0.00	0.00	0.01	0.00	6.72	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.73	2.00	0.00	0.00	0.01	0.00	6.74	2.00	0.00	0.00	0.01	0.00
6.75	2.00	0.00	0.00	0.01	0.00	6.76	2.00	0.00	0.00	0.01	0.00
6.77	2.00	0.00	0.00	0.01	0.00	6.78	2.00	0.00	0.00	0.01	0.00
6.79	2.00	0.00	0.00	0.01	0.00	6.80	2.00	0.00	0.00	0.01	0.00
6.81	2.00	0.00	0.00	0.01	0.00	6.82	2.00	0.00	0.00	0.01	0.00
6.83	2.00	0.00	0.00	0.01	0.00	6.84	2.00	0.00	0.00	0.01	0.00
6.85	2.00	0.00	0.00	0.01	0.00	6.86	2.00	0.00	0.00	0.01	0.00
6.87	2.00	0.00	0.00	0.01	0.00	6.88	2.00	0.00	0.00	0.01	0.00
6.89	2.00	0.00	0.00	0.01	0.00	6.90	2.00	0.00	0.00	0.01	0.00
6.91	2.00	0.00	0.00	0.01	0.00	6.92	2.00	0.00	0.00	0.01	0.00
6.93	2.00	0.00	0.00	0.01	0.00	6.94	2.00	0.00	0.00	0.01	0.00
6.95	2.00	0.00	0.00	0.01	0.00	6.96	2.00	0.00	0.00	0.01	0.00
6.97	2.00	0.00	0.00	0.01	0.00	6.98	2.00	0.00	0.00	0.01	0.00
6.99	2.00	0.00	0.00	0.01	0.00	7.00	2.00	0.00	0.00	0.01	0.00
7.01	2.00	0.00	0.00	0.01	0.00	7.02	2.00	0.00	0.00	0.01	0.00
7.03	2.00	0.00	0.00	0.01	0.00	7.04	2.00	0.00	0.00	0.01	0.00
7.05	2.00	0.00	0.00	0.01	0.00	7.06	2.00	0.00	0.00	0.01	0.00
7.07	2.00	0.00	0.00	0.01	0.00	7.08	2.00	0.00	0.00	0.01	0.00
7.09	2.00	0.00	0.00	0.01	0.00	7.10	2.00	0.00	0.00	0.01	0.00
7.11	2.00	0.00	0.00	0.01	0.00	7.12	2.00	0.00	0.00	0.01	0.00
7.13	2.00	0.00	0.00	0.01	0.00	7.14	2.00	0.00	0.00	0.01	0.00
7.15	2.00	0.00	0.00	0.01	0.00	7.16	2.00	0.00	0.00	0.01	0.00
7.17	2.00	0.00	0.00	0.01	0.00	7.18	2.00	0.00	0.00	0.01	0.00
7.19	2.00	0.00	0.00	0.01	0.00	7.20	2.00	0.00	0.00	0.01	0.00
7.21	2.00	0.00	0.00	0.01	0.00	7.22	2.00	0.00	0.00	0.01	0.00
7.23	2.00	0.00	0.00	0.01	0.00	7.24	2.00	0.00	0.00	0.01	0.00
7.25	2.00	0.00	0.00	0.01	0.00	7.26	2.00	0.00	0.00	0.01	0.00
7.27	2.00	0.00	0.00	0.01	0.00	7.28	2.00	0.00	0.00	0.01	0.00
7.29	2.00	0.00	0.00	0.01	0.00	7.30	2.00	0.00	0.00	0.01	0.00
7.31	2.00	0.00	0.00	0.01	0.00	7.32	2.00	0.00	0.00	0.01	0.00
7.33	2.00	0.00	0.00	0.01	0.00	7.34	2.00	0.00	0.00	0.01	0.00
7.35	2.00	0.00	0.00	0.01	0.00	7.36	2.00	0.00	0.00	0.01	0.00
7.37	2.00	0.00	0.00	0.01	0.00	7.38	2.00	0.00	0.00	0.01	0.00
7.39	2.00	0.00	0.00	0.01	0.00	7.40	2.00	0.00	0.00	0.01	0.00
7.41	2.00	0.00	0.00	0.01	0.00	7.42	2.00	0.00	0.00	0.01	0.00
7.43	2.00	0.00	0.00	0.01	0.00	7.44	2.00	0.00	0.00	0.01	0.00
7.45	2.00	0.00	0.00	0.01	0.00	7.46	2.00	0.00	0.00	0.01	0.00
7.47	2.00	0.00	0.00	0.01	0.00	7.48	2.00	0.00	0.00	0.01	0.00
7.49	2.00	0.00	0.00	0.01	0.00	7.50	2.00	0.00	0.00	0.01	0.00
7.51	2.00	0.00	0.00	0.01	0.00	7.52	2.00	0.00	0.00	0.01	0.00
7.53	2.00	0.00	0.00	0.01	0.00	7.54	2.00	0.00	0.00	0.01	0.00
7.55	2.00	0.00	0.00	0.01	0.00	7.56	2.00	0.00	0.00	0.01	0.00
7.57	2.00	0.00	0.00	0.01	0.00	7.58	2.00	0.00	0.00	0.01	0.00
7.59	2.00	0.00	0.00	0.01	0.00	7.60	2.00	0.00	0.00	0.01	0.00
7.61	2.00	0.00	0.00	0.01	0.00	7.62	2.00	0.00	0.00	0.01	0.00
7.63	2.00	0.00	0.00	0.01	0.00	7.64	2.00	0.00	0.00	0.01	0.00
7.65	2.00	0.00	0.00	0.01	0.00	7.66	2.00	0.00	0.00	0.01	0.00
7.67	2.00	0.00	0.00	0.01	0.00	7.68	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.69	2.00	0.00	0.00	0.01	0.00	7.70	2.00	0.00	0.00	0.01	0.00
7.71	2.00	0.00	0.00	0.01	0.00	7.72	2.00	0.00	0.00	0.01	0.00
7.73	2.00	0.00	0.00	0.01	0.00	7.74	2.00	0.00	0.00	0.01	0.00
7.75	2.00	0.00	0.00	0.01	0.00	7.76	2.00	0.00	0.00	0.01	0.00
7.77	2.00	0.00	0.00	0.01	0.00	7.78	2.00	0.00	0.00	0.01	0.00
7.79	2.00	0.00	0.00	0.01	0.00	7.80	2.00	0.00	0.00	0.01	0.00
7.81	2.00	0.00	0.00	0.01	0.00	7.82	2.00	0.00	0.00	0.01	0.00
7.83	2.00	0.00	0.00	0.01	0.00	7.84	2.00	0.00	0.00	0.01	0.00
7.85	2.00	0.00	0.00	0.01	0.00	7.86	2.00	0.00	0.00	0.01	0.00
7.87	2.00	0.00	0.00	0.01	0.00	7.88	2.00	0.00	0.00	0.01	0.00
7.89	2.00	0.00	0.00	0.01	0.00	7.90	2.00	0.00	0.00	0.01	0.00
7.91	2.00	0.00	0.00	0.01	0.00	7.92	2.00	0.00	0.00	0.01	0.00
7.93	2.00	0.00	0.00	0.01	0.00	7.94	2.00	0.00	0.00	0.01	0.00
7.95	2.00	0.00	0.00	0.01	0.00	7.96	2.00	0.00	0.00	0.01	0.00
7.97	2.00	0.00	0.00	0.01	0.00	7.98	2.00	0.00	0.00	0.01	0.00
7.99	2.00	0.00	0.00	0.01	0.00	8.00	2.00	0.00	0.00	0.01	0.00
8.01	2.00	0.00	0.00	0.01	0.00	8.02	2.00	0.00	0.00	0.01	0.00
8.03	2.00	0.00	0.00	0.01	0.00	8.04	2.00	0.00	0.00	0.01	0.00
8.05	2.00	0.00	0.00	0.01	0.00	8.06	2.00	0.00	0.00	0.01	0.00
8.07	2.00	0.00	0.00	0.01	0.00	8.08	2.00	0.00	0.00	0.01	0.00
8.09	2.00	0.00	0.00	0.01	0.00	8.10	2.00	0.00	0.00	0.01	0.00
8.11	2.00	0.00	0.00	0.01	0.00	8.12	2.00	0.00	0.00	0.01	0.00
8.13	2.00	0.00	0.00	0.01	0.00	8.14	2.00	0.00	0.00	0.01	0.00
8.15	2.00	0.00	0.00	0.01	0.00	8.16	2.00	0.00	0.00	0.01	0.00
8.17	2.00	0.00	0.00	0.01	0.00	8.18	2.00	0.00	0.00	0.01	0.00
8.19	2.00	0.00	0.00	0.01	0.00	8.20	2.00	0.00	0.00	0.01	0.00
8.21	2.00	0.00	0.00	0.01	0.00	8.22	2.00	0.00	0.00	0.01	0.00
8.23	2.00	0.00	0.00	0.01	0.00	8.24	2.00	0.00	0.00	0.01	0.00
8.25	2.00	0.00	0.00	0.01	0.00	8.26	2.00	0.00	0.00	0.01	0.00
8.27	2.00	0.00	0.00	0.01	0.00	8.28	2.00	0.00	0.00	0.01	0.00
8.29	2.00	0.00	0.00	0.01	0.00	8.30	2.00	0.00	0.00	0.01	0.00
8.31	2.00	0.00	0.00	0.01	0.00	8.32	2.00	0.00	0.00	0.01	0.00
8.33	2.00	0.00	0.00	0.01	0.00	8.34	2.00	0.00	0.00	0.01	0.00
8.35	2.00	0.00	0.00	0.01	0.00	8.36	2.00	0.00	0.00	0.01	0.00
8.37	2.00	0.00	0.00	0.01	0.00	8.38	2.00	0.00	0.00	0.01	0.00
8.39	2.00	0.00	0.00	0.01	0.00	8.40	2.00	0.00	0.00	0.01	0.00
8.41	2.00	0.00	0.00	0.01	0.00	8.42	2.00	0.00	0.00	0.01	0.00
8.43	2.00	0.00	0.00	0.01	0.00	8.44	2.00	0.00	0.00	0.01	0.00
8.45	2.00	0.00	0.00	0.01	0.00	8.46	2.00	0.00	0.00	0.01	0.00
8.47	2.00	0.00	0.00	0.01	0.00	8.48	2.00	0.00	0.00	0.01	0.00
8.49	2.00	0.00	0.00	0.01	0.00	8.50	2.00	0.00	0.00	0.01	0.00
8.51	2.00	0.00	0.00	0.01	0.00	8.52	2.00	0.00	0.00	0.01	0.00
8.53	2.00	0.00	0.00	0.01	0.00	8.54	2.00	0.00	0.00	0.01	0.00
8.55	2.00	0.00	0.00	0.01	0.00	8.56	2.00	0.00	0.00	0.01	0.00
8.57	2.00	0.00	0.00	0.01	0.00	8.58	2.00	0.00	0.00	0.01	0.00
8.59	2.00	0.00	0.00	0.01	0.00	8.60	2.00	0.00	0.00	0.01	0.00
8.61	2.00	0.00	0.00	0.01	0.00	8.62	2.00	0.00	0.00	0.01	0.00
8.63	2.00	0.00	0.00	0.01	0.00	8.64	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.65	2.00	0.00	0.00	0.01	0.00	8.66	2.00	0.00	0.00	0.01	0.00
8.67	2.00	0.00	0.00	0.01	0.00	8.68	2.00	0.00	0.00	0.01	0.00
8.69	2.00	0.00	0.00	0.01	0.00	8.70	2.00	0.00	0.00	0.01	0.00
8.71	2.00	0.00	0.00	0.01	0.00	8.72	2.00	0.00	0.00	0.01	0.00
8.73	2.00	0.00	0.00	0.01	0.00	8.74	2.00	0.00	0.00	0.01	0.00
8.75	2.00	0.00	0.00	0.01	0.00	8.76	2.00	0.00	0.00	0.01	0.00
8.77	2.00	0.00	0.00	0.01	0.00	8.78	2.00	0.00	0.00	0.01	0.00
8.79	2.00	0.00	0.00	0.01	0.00	8.80	2.00	0.00	0.00	0.01	0.00
8.81	2.00	0.00	0.00	0.01	0.00	8.82	2.00	0.00	0.00	0.01	0.00
8.83	2.00	0.00	0.00	0.01	0.00	8.84	2.00	0.00	0.00	0.01	0.00
8.85	2.00	0.00	0.00	0.01	0.00	8.86	2.00	0.00	0.00	0.01	0.00
8.87	2.00	0.00	0.00	0.01	0.00	8.88	2.00	0.00	0.00	0.01	0.00
8.89	2.00	0.00	0.00	0.01	0.00	8.90	2.00	0.00	0.00	0.01	0.00
8.91	2.00	0.00	0.00	0.01	0.00	8.92	2.00	0.00	0.00	0.01	0.00
8.93	2.00	0.00	0.00	0.01	0.00	8.94	2.00	0.00	0.00	0.01	0.00
8.95	2.00	0.00	0.00	0.01	0.00	8.96	2.00	0.00	0.00	0.01	0.00
8.97	2.00	0.00	0.00	0.01	0.00	8.98	2.00	0.00	0.00	0.01	0.00
8.99	2.00	0.00	0.00	0.01	0.00	9.00	2.00	0.00	0.00	0.01	0.00
9.01	2.00	0.00	0.00	0.01	0.00	9.02	2.00	0.00	0.00	0.01	0.00
9.03	2.00	0.00	0.00	0.01	0.00	9.04	2.00	0.00	0.00	0.01	0.00
9.05	2.00	0.00	0.00	0.01	0.00	9.06	2.00	0.00	0.00	0.01	0.00
9.07	2.00	0.00	0.00	0.01	0.00	9.08	2.00	0.00	0.00	0.01	0.00
9.09	2.00	0.00	0.00	0.01	0.00	9.10	2.00	0.00	0.00	0.01	0.00
9.11	2.00	0.00	0.00	0.01	0.00	9.12	2.00	0.00	0.00	0.01	0.00
9.13	2.00	0.00	0.00	0.01	0.00	9.14	2.00	0.00	0.00	0.01	0.00
9.15	2.00	0.00	0.00	0.01	0.00	9.16	2.00	0.00	0.00	0.01	0.00
9.17	2.00	0.00	0.00	0.01	0.00	9.18	2.00	0.00	0.00	0.01	0.00
9.19	2.00	0.00	0.00	0.01	0.00	9.20	2.00	0.00	0.00	0.01	0.00
9.21	2.00	0.00	0.00	0.01	0.00	9.22	2.00	0.00	0.00	0.01	0.00
9.23	2.00	0.00	0.00	0.01	0.00	9.24	2.00	0.00	0.00	0.01	0.00
9.25	2.00	0.00	0.00	0.01	0.00	9.26	2.00	0.00	0.00	0.01	0.00
9.27	2.00	0.00	0.00	0.01	0.00	9.28	2.00	0.00	0.00	0.01	0.00
9.29	2.00	0.00	0.00	0.01	0.00	9.30	2.00	0.00	0.00	0.01	0.00
9.31	2.00	0.00	0.00	0.01	0.00	9.32	2.00	0.00	0.00	0.01	0.00
9.33	2.00	0.00	0.00	0.01	0.00	9.34	2.00	0.00	0.00	0.01	0.00
9.35	2.00	0.00	0.00	0.01	0.00	9.36	2.00	0.00	0.00	0.01	0.00
9.37	2.00	0.00	0.00	0.01	0.00	9.38	2.00	0.00	0.00	0.01	0.00
9.39	2.00	0.00	0.00	0.01	0.00	9.40	2.00	0.00	0.00	0.01	0.00
9.41	2.00	0.00	0.00	0.01	0.00	9.42	2.00	0.00	0.00	0.01	0.00
9.43	2.00	0.00	0.00	0.01	0.00	9.44	2.00	0.00	0.00	0.01	0.00
9.45	2.00	0.00	0.00	0.01	0.00	9.46	2.00	0.00	0.00	0.01	0.00
9.47	2.00	0.00	0.00	0.01	0.00	9.48	2.00	0.00	0.00	0.01	0.00
9.49	2.00	0.00	0.00	0.01	0.00	9.50	2.00	0.00	0.00	0.01	0.00
9.51	2.00	0.00	0.00	0.01	0.00	9.52	2.00	0.00	0.00	0.01	0.00
9.53	2.00	0.00	0.00	0.01	0.00	9.54	2.00	0.00	0.00	0.01	0.00
9.55	2.00	0.00	0.00	0.01	0.00	9.56	2.00	0.00	0.00	0.01	0.00
9.57	2.00	0.00	0.00	0.01	0.00	9.58	2.00	0.00	0.00	0.01	0.00
9.59	2.00	0.00	0.00	0.01	0.00	9.60	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.61	2.00	0.00	0.00	0.01	0.00	9.62	2.00	0.00	0.00	0.01	0.00
9.63	2.00	0.00	0.00	0.01	0.00	9.64	2.00	0.00	0.00	0.01	0.00
9.65	2.00	0.00	0.00	0.01	0.00	9.66	2.00	0.00	0.00	0.01	0.00
9.67	2.00	0.00	0.00	0.01	0.00	9.68	2.00	0.00	0.00	0.01	0.00
9.69	2.00	0.00	0.00	0.01	0.00	9.70	2.00	0.00	0.00	0.01	0.00
9.71	2.00	0.00	0.00	0.01	0.00	9.72	2.00	0.00	0.00	0.01	0.00
9.73	2.00	0.00	0.00	0.01	0.00	9.74	2.00	0.00	0.00	0.01	0.00
9.75	2.00	0.00	0.00	0.01	0.00	9.76	2.00	0.00	0.00	0.01	0.00
9.77	2.00	0.00	0.00	0.01	0.00	9.78	2.00	0.00	0.00	0.01	0.00
9.79	2.00	0.00	0.00	0.01	0.00	9.80	2.00	0.00	0.00	0.01	0.00
9.81	2.00	0.00	0.00	0.01	0.00	9.82	2.00	0.00	0.00	0.01	0.00
9.83	2.00	0.00	0.00	0.01	0.00	9.84	2.00	0.00	0.00	0.01	0.00
9.85	2.00	0.00	0.00	0.01	0.00	9.86	2.00	0.00	0.00	0.01	0.00
9.87	2.00	0.00	0.00	0.01	0.00	9.88	2.00	0.00	0.00	0.01	0.00
9.89	2.00	0.00	0.00	0.01	0.00	9.90	2.00	0.00	0.00	0.01	0.00
9.91	2.00	0.00	0.00	0.01	0.00	9.92	2.00	0.00	0.00	0.01	0.00
9.93	2.00	0.00	0.00	0.01	0.00	9.94	2.00	0.00	0.00	0.01	0.00
9.95	2.00	0.00	0.00	0.01	0.00	9.96	2.00	0.00	0.00	0.01	0.00
9.97	2.00	0.00	0.00	0.01	0.00	9.98	2.00	0.00	0.00	0.01	0.00
9.99	2.00	0.00	0.00	0.01	0.00	10.00	2.00	0.00	0.00	0.01	0.00
10.01	2.00	0.00	0.00	0.01	0.00	10.02	2.00	0.00	0.00	0.01	0.00
10.03	2.00	0.00	0.00	0.01	0.00	10.04	2.00	0.00	0.00	0.01	0.00
10.05	2.00	0.00	0.00	0.01	0.00	10.06	2.00	0.00	0.00	0.01	0.00
10.07	2.00	0.00	0.00	0.01	0.00	10.08	2.00	0.00	0.00	0.01	0.00
10.09	2.00	0.00	0.00	0.01	0.00	10.10	2.00	0.00	0.00	0.01	0.00
10.11	2.00	0.00	0.00	0.01	0.00	10.12	2.00	0.00	0.00	0.01	0.00
10.13	2.00	0.00	0.00	0.01	0.00	10.14	2.00	0.00	0.00	0.01	0.00
10.15	2.00	0.00	0.00	0.01	0.00	10.16	2.00	0.00	0.00	0.01	0.00
10.17	2.00	0.00	0.00	0.01	0.00	10.18	2.00	0.00	0.00	0.01	0.00
10.19	2.00	0.00	0.00	0.01	0.00	10.20	2.00	0.00	0.00	0.01	0.00
10.21	2.00	0.00	0.00	0.01	0.00	10.22	2.00	0.00	0.00	0.01	0.00
10.23	2.00	0.00	0.00	0.01	0.00	10.24	2.00	0.00	0.00	0.01	0.00
10.25	2.00	0.00	0.00	0.01	0.00	10.26	2.00	0.00	0.00	0.01	0.00
10.27	2.00	0.00	0.00	0.01	0.00	10.28	2.00	0.00	0.00	0.01	0.00
10.29	2.00	0.00	0.00	0.01	0.00	10.30	2.00	0.00	0.00	0.01	0.00
10.31	2.00	0.00	0.00	0.01	0.00	10.32	2.00	0.00	0.00	0.01	0.00
10.33	2.00	0.00	0.00	0.01	0.00	10.34	2.00	0.00	0.00	0.01	0.00
10.35	2.00	0.00	0.00	0.01	0.00	10.36	2.00	0.00	0.00	0.01	0.00
10.37	2.00	0.00	0.00	0.01	0.00	10.38	2.00	0.00	0.00	0.01	0.00
10.39	2.00	0.00	0.00	0.01	0.00	10.40	2.00	0.00	0.00	0.01	0.00
10.41	2.00	0.00	0.00	0.01	0.00	10.42	2.00	0.00	0.00	0.01	0.00
10.43	2.00	0.00	0.00	0.01	0.00	10.44	2.00	0.00	0.00	0.01	0.00
10.45	2.00	0.00	0.00	0.01	0.00	10.46	2.00	0.00	0.00	0.01	0.00
10.47	2.00	0.00	0.00	0.01	0.00	10.48	2.00	0.00	0.00	0.01	0.00
10.49	2.00	0.00	0.00	0.01	0.00	10.50	2.00	0.00	0.00	0.01	0.00
10.51	2.00	0.00	0.00	0.01	0.00	10.52	2.00	0.00	0.00	0.01	0.00
10.53	2.00	0.00	0.00	0.01	0.00	10.54	2.00	0.00	0.00	0.01	0.00
10.55	2.00	0.00	0.00	0.01	0.00	10.56	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.57	2.00	0.00	0.00	0.01	0.00	10.58	2.00	0.00	0.00	0.01	0.00
10.59	2.00	0.00	0.00	0.01	0.00	10.60	2.00	0.00	0.00	0.01	0.00
10.61	2.00	0.00	0.00	0.01	0.00	10.62	2.00	0.00	0.00	0.01	0.00
10.63	2.00	0.00	0.00	0.01	0.00	10.64	2.00	0.00	0.00	0.01	0.00
10.65	2.00	0.00	0.00	0.01	0.00	10.66	2.00	0.00	0.00	0.01	0.00
10.67	2.00	0.00	0.00	0.01	0.00	10.68	2.00	0.00	0.00	0.01	0.00
10.69	2.00	0.00	0.00	0.01	0.00	10.70	2.00	0.00	0.00	0.01	0.00
10.71	2.00	0.00	0.00	0.01	0.00	10.72	2.00	0.00	0.00	0.01	0.00
10.73	2.00	0.00	0.00	0.01	0.00	10.74	2.00	0.00	0.00	0.01	0.00
10.75	2.00	0.00	0.00	0.01	0.00	10.76	2.00	0.00	0.00	0.01	0.00
10.77	2.00	0.00	0.00	0.01	0.00	10.78	2.00	0.00	0.00	0.01	0.00
10.79	2.00	0.00	0.00	0.01	0.00	10.80	2.00	0.00	0.00	0.01	0.00
10.81	2.00	0.00	0.00	0.01	0.00	10.82	2.00	0.00	0.00	0.01	0.00
10.83	2.00	0.00	0.00	0.01	0.00	10.84	2.00	0.00	0.00	0.01	0.00
10.85	2.00	0.00	0.00	0.01	0.00	10.86	2.00	0.00	0.00	0.01	0.00
10.87	2.00	0.00	0.00	0.01	0.00	10.88	2.00	0.00	0.00	0.01	0.00
10.89	2.00	0.00	0.00	0.01	0.00	10.90	2.00	0.00	0.00	0.01	0.00
10.91	2.00	0.00	0.00	0.01	0.00	10.92	2.00	0.00	0.00	0.01	0.00
10.93	2.00	0.00	0.00	0.01	0.00	10.94	2.00	0.00	0.00	0.01	0.00
10.95	2.00	0.00	0.00	0.01	0.00	10.96	2.00	0.00	0.00	0.01	0.00
10.97	2.00	0.00	0.00	0.01	0.00	10.98	2.00	0.00	0.00	0.01	0.00
10.99	2.00	0.00	0.00	0.01	0.00	11.00	2.00	0.00	0.00	0.01	0.00
11.01	2.00	0.00	0.00	0.01	0.00	11.02	2.00	0.00	0.00	0.01	0.00
11.03	2.00	0.00	0.00	0.01	0.00	11.04	2.00	0.00	0.00	0.01	0.00
11.05	2.00	0.00	0.00	0.01	0.00	11.06	2.00	0.00	0.00	0.01	0.00
11.07	2.00	0.00	0.00	0.01	0.00	11.08	2.00	0.00	0.00	0.01	0.00
11.09	2.00	0.00	0.00	0.01	0.00	11.10	2.00	0.00	0.00	0.01	0.00
11.11	2.00	0.00	0.00	0.01	0.00	11.12	2.00	0.00	0.00	0.01	0.00
11.13	2.00	0.00	0.00	0.01	0.00	11.14	2.00	0.00	0.00	0.01	0.00
11.15	2.00	0.00	0.00	0.01	0.00	11.16	2.00	0.00	0.00	0.01	0.00
11.17	2.00	0.00	0.00	0.01	0.00	11.18	2.00	0.00	0.00	0.01	0.00
11.19	2.00	0.00	0.00	0.01	0.00	11.20	2.00	0.00	0.00	0.01	0.00
11.21	2.00	0.00	0.00	0.01	0.00	11.22	2.00	0.00	0.00	0.01	0.00
11.23	2.00	0.00	0.00	0.01	0.00	11.24	2.00	0.00	0.00	0.01	0.00
11.25	2.00	0.00	0.00	0.01	0.00	11.26	2.00	0.00	0.00	0.01	0.00
11.27	2.00	0.00	0.00	0.01	0.00	11.28	2.00	0.00	0.00	0.01	0.00
11.29	2.00	0.00	0.00	0.01	0.00	11.30	2.00	0.00	0.00	0.01	0.00
11.31	2.00	0.00	0.00	0.01	0.00	11.32	2.00	0.00	0.00	0.01	0.00
11.33	2.00	0.00	0.00	0.01	0.00	11.34	2.00	0.00	0.00	0.01	0.00
11.35	2.00	0.00	0.00	0.01	0.00	11.36	2.00	0.00	0.00	0.01	0.00
11.37	2.00	0.00	0.00	0.01	0.00	11.38	2.00	0.00	0.00	0.01	0.00
11.39	2.00	0.00	0.00	0.01	0.00	11.40	2.00	0.00	0.00	0.01	0.00
11.41	2.00	0.00	0.00	0.01	0.00	11.42	2.00	0.00	0.00	0.01	0.00
11.43	2.00	0.00	0.00	0.01	0.00	11.44	2.00	0.00	0.00	0.01	0.00
11.45	2.00	0.00	0.00	0.01	0.00	11.46	2.00	0.00	0.00	0.01	0.00
11.47	2.00	0.00	0.00	0.01	0.00	11.48	2.00	0.00	0.00	0.01	0.00
11.49	2.00	0.00	0.00	0.01	0.00	11.50	2.00	0.00	0.00	0.01	0.00
11.51	2.00	0.00	0.00	0.01	0.00	11.52	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.53	2.00	0.00	0.00	0.01	0.00	11.54	2.00	0.00	0.00	0.01	0.00
11.55	2.00	0.00	0.00	0.01	0.00	11.56	2.00	0.00	0.00	0.01	0.00
11.57	2.00	0.00	0.00	0.01	0.00	11.58	2.00	0.00	0.00	0.01	0.00
11.59	2.00	0.00	0.00	0.01	0.00	11.60	2.00	0.00	0.00	0.01	0.00
11.61	2.00	0.00	0.00	0.01	0.00	11.62	2.00	0.00	0.00	0.01	0.00
11.63	2.00	0.00	0.00	0.01	0.00	11.64	2.00	0.00	0.00	0.01	0.00
11.65	2.00	0.00	0.00	0.01	0.00	11.66	2.00	0.00	0.00	0.01	0.00
11.67	2.00	0.00	0.00	0.01	0.00	11.68	2.00	0.00	0.00	0.01	0.00
11.69	2.00	0.00	0.00	0.01	0.00	11.70	2.00	0.00	0.00	0.01	0.00
11.71	2.00	0.00	0.00	0.01	0.00	11.72	2.00	0.00	0.00	0.01	0.00
11.73	2.00	0.00	0.00	0.01	0.00	11.74	2.00	0.00	0.00	0.01	0.00
11.75	2.00	0.00	0.00	0.01	0.00	11.76	2.00	0.00	0.00	0.01	0.00
11.77	2.00	0.00	0.00	0.01	0.00	11.78	2.00	0.00	0.00	0.01	0.00
11.79	2.00	0.00	0.00	0.01	0.00	11.80	2.00	0.00	0.00	0.01	0.00
11.81	2.00	0.00	0.00	0.01	0.00	11.82	2.00	0.00	0.00	0.01	0.00
11.83	2.00	0.00	0.00	0.01	0.00	11.84	2.00	0.00	0.00	0.01	0.00
11.85	2.00	0.00	0.00	0.01	0.00	11.86	2.00	0.00	0.00	0.01	0.00
11.87	2.00	0.00	0.00	0.01	0.00	11.88	2.00	0.00	0.00	0.01	0.00
11.89	2.00	0.00	0.00	0.01	0.00	11.90	2.00	0.00	0.00	0.01	0.00
11.91	2.00	0.00	0.00	0.01	0.00	11.92	2.00	0.00	0.00	0.01	0.00
11.93	2.00	0.00	0.00	0.01	0.00	11.94	2.00	0.00	0.00	0.01	0.00
11.95	2.00	0.00	0.00	0.01	0.00	11.96	2.00	0.00	0.00	0.01	0.00
11.97	2.00	0.00	0.00	0.01	0.00	11.98	2.00	0.00	0.00	0.01	0.00
11.99	2.00	0.00	0.00	0.01	0.00	12.00	2.00	0.00	0.00	0.01	0.00
12.01	2.00	0.00	0.00	0.01	0.00	12.02	2.00	0.00	0.00	0.01	0.00
12.03	2.00	0.00	0.00	0.01	0.00	12.04	2.00	0.00	0.00	0.01	0.00
12.05	2.00	0.00	0.00	0.01	0.00	12.06	2.00	0.00	0.00	0.01	0.00
12.07	2.00	0.00	0.00	0.01	0.00	12.08	2.00	0.00	0.00	0.01	0.00
12.09	2.00	0.00	0.00	0.01	0.00	12.10	2.00	0.00	0.00	0.01	0.00
12.11	2.00	0.00	0.00	0.01	0.00	12.12	2.00	0.00	0.00	0.01	0.00
12.13	2.00	0.00	0.00	0.01	0.00	12.14	2.00	0.00	0.00	0.01	0.00
12.15	2.00	0.00	0.00	0.01	0.00	12.16	2.00	0.00	0.00	0.01	0.00
12.17	2.00	0.00	0.00	0.01	0.00	12.18	2.00	0.00	0.00	0.01	0.00
12.19	2.00	0.00	0.00	0.01	0.00	12.20	2.00	0.00	0.00	0.01	0.00
12.21	2.00	0.00	0.00	0.01	0.00	12.22	2.00	0.00	0.00	0.01	0.00
12.23	2.00	0.00	0.00	0.01	0.00	12.24	2.00	0.00	0.00	0.01	0.00
12.25	2.00	0.00	0.00	0.01	0.00	12.26	2.00	0.00	0.00	0.01	0.00
12.27	2.00	0.00	0.00	0.01	0.00	12.28	2.00	0.00	0.00	0.01	0.00
12.29	2.00	0.00	0.00	0.01	0.00	12.30	2.00	0.00	0.00	0.01	0.00
12.31	2.00	0.00	0.00	0.01	0.00	12.32	2.00	0.00	0.00	0.01	0.00
12.33	2.00	0.00	0.00	0.01	0.00	12.34	2.00	0.00	0.00	0.01	0.00
12.35	2.00	0.00	0.00	0.01	0.00	12.36	2.00	0.00	0.00	0.01	0.00
12.37	2.00	0.00	0.00	0.01	0.00	12.38	2.00	0.00	0.00	0.01	0.00
12.39	2.00	0.00	0.00	0.01	0.00	12.40	2.00	0.00	0.00	0.01	0.00
12.41	2.00	0.00	0.00	0.01	0.00	12.42	2.00	0.00	0.00	0.01	0.00
12.43	2.00	0.00	0.00	0.01	0.00	12.44	2.00	0.00	0.00	0.01	0.00
12.45	2.00	0.00	0.00	0.01	0.00	12.46	2.00	0.00	0.00	0.01	0.00
12.47	2.00	0.00	0.00	0.01	0.00	12.48	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.49	2.00	0.00	0.00	0.01	0.00	12.50	2.00	0.00	0.00	0.01	0.00
12.51	2.00	0.00	0.00	0.01	0.00	12.52	2.00	0.00	0.00	0.01	0.00
12.53	2.00	0.00	0.00	0.01	0.00	12.54	2.00	0.00	0.00	0.01	0.00
12.55	2.00	0.00	0.00	0.01	0.00	12.56	2.00	0.00	0.00	0.01	0.00
12.57	2.00	0.00	0.00	0.01	0.00	12.58	2.00	0.00	0.00	0.01	0.00
12.59	2.00	0.00	0.00	0.01	0.00	12.60	2.00	0.00	0.00	0.01	0.00
12.61	2.00	0.00	0.00	0.01	0.00	12.62	2.00	0.00	0.00	0.01	0.00
12.63	2.00	0.00	0.00	0.01	0.00	12.64	2.00	0.00	0.00	0.01	0.00
12.65	2.00	0.00	0.00	0.01	0.00	12.66	2.00	0.00	0.00	0.01	0.00
12.67	2.00	0.00	0.00	0.01	0.00	12.68	2.00	0.00	0.00	0.01	0.00
12.69	2.00	0.00	0.00	0.01	0.00	12.70	2.00	0.00	0.00	0.01	0.00
12.71	2.00	0.00	0.00	0.01	0.00	12.72	2.00	0.00	0.00	0.01	0.00
12.73	2.00	0.00	0.00	0.01	0.00	12.74	2.00	0.00	0.00	0.01	0.00
12.75	2.00	0.00	0.00	0.01	0.00	12.76	2.00	0.00	0.00	0.01	0.00
12.77	2.00	0.00	0.00	0.01	0.00	12.78	2.00	0.00	0.00	0.01	0.00
12.79	2.00	0.00	0.00	0.01	0.00	12.80	2.00	0.00	0.00	0.01	0.00
12.81	2.00	0.00	0.00	0.01	0.00	12.82	2.00	0.00	0.00	0.01	0.00
12.83	2.00	0.00	0.00	0.01	0.00	12.84	2.00	0.00	0.00	0.01	0.00
12.85	2.00	0.00	0.00	0.01	0.00	12.86	2.00	0.00	0.00	0.01	0.00
12.87	2.00	0.00	0.00	0.01	0.00	12.88	2.00	0.00	0.00	0.01	0.00
12.89	2.00	0.00	0.00	0.01	0.00	12.90	2.00	0.00	0.00	0.01	0.00
12.91	2.00	0.00	0.00	0.01	0.00	12.92	2.00	0.00	0.00	0.01	0.00
12.93	2.00	0.00	0.00	0.01	0.00	12.94	2.00	0.00	0.00	0.01	0.00
12.95	2.00	0.00	0.00	0.01	0.00	12.96	2.00	0.00	0.00	0.01	0.00
12.97	2.00	0.00	0.00	0.01	0.00	12.98	2.00	0.00	0.00	0.01	0.00
12.99	2.00	0.00	0.00	0.01	0.00	13.00	2.00	0.00	0.00	0.01	0.00
13.01	2.00	0.00	0.00	0.01	0.00	13.02	2.00	0.00	0.00	0.01	0.00
13.03	2.00	0.00	0.00	0.01	0.00	13.04	2.00	0.00	0.00	0.01	0.00
13.05	2.00	0.00	0.00	0.01	0.00	13.06	2.00	0.00	0.00	0.01	0.00
13.07	2.00	0.00	0.00	0.01	0.00	13.08	2.00	0.00	0.00	0.01	0.00
13.09	2.00	0.00	0.00	0.01	0.00	13.10	2.00	0.00	0.00	0.01	0.00
13.11	2.00	0.00	0.00	0.01	0.00	13.12	2.00	0.00	0.00	0.01	0.00
13.13	2.00	0.00	0.00	0.01	0.00	13.14	2.00	0.00	0.00	0.01	0.00
13.15	2.00	0.00	0.00	0.01	0.00	13.16	2.00	0.00	0.00	0.01	0.00
13.17	2.00	0.00	0.00	0.01	0.00	13.18	2.00	0.00	0.00	0.01	0.00
13.19	2.00	0.00	0.00	0.01	0.00	13.20	2.00	0.00	0.00	0.01	0.00
13.21	2.00	0.00	0.00	0.01	0.00	13.22	2.00	0.00	0.00	0.01	0.00
13.23	2.00	0.00	0.00	0.01	0.00	13.24	2.00	0.00	0.00	0.01	0.00
13.25	2.00	0.00	0.00	0.01	0.00	13.26	2.00	0.00	0.00	0.01	0.00
13.27	2.00	0.00	0.00	0.01	0.00	13.28	2.00	0.00	0.00	0.01	0.00
13.29	2.00	0.00	0.00	0.01	0.00	13.30	2.00	0.00	0.00	0.01	0.00
13.31	2.00	0.00	0.00	0.01	0.00	13.32	2.00	0.00	0.00	0.01	0.00
13.33	2.00	0.00	0.00	0.01	0.00	13.34	2.00	0.00	0.00	0.01	0.00
13.35	2.00	0.00	0.00	0.01	0.00	13.36	2.00	0.00	0.00	0.01	0.00
13.37	2.00	0.00	0.00	0.01	0.00	13.38	2.00	0.00	0.00	0.01	0.00
13.39	2.00	0.00	0.00	0.01	0.00	13.40	2.00	0.00	0.00	0.01	0.00
13.41	2.00	0.00	0.00	0.01	0.00	13.42	2.00	0.00	0.00	0.01	0.00
13.43	2.00	0.00	0.00	0.01	0.00	13.44	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.45	2.00	0.00	0.00	0.01	0.00	13.46	2.00	0.00	0.00	0.01	0.00
13.47	2.00	0.00	0.00	0.01	0.00	13.48	2.00	0.00	0.00	0.01	0.00
13.49	2.00	0.00	0.00	0.01	0.00	13.50	2.00	0.00	0.00	0.01	0.00
13.51	2.00	0.00	0.00	0.01	0.00	13.52	2.00	0.00	0.00	0.01	0.00
13.53	2.00	0.00	0.00	0.01	0.00	13.54	2.00	0.00	0.00	0.01	0.00
13.55	2.00	0.00	0.00	0.01	0.00	13.56	2.00	0.00	0.00	0.01	0.00
13.57	2.00	0.00	0.00	0.01	0.00	13.58	2.00	0.00	0.00	0.01	0.00
13.59	2.00	0.00	0.00	0.01	0.00	13.60	2.00	0.00	0.00	0.01	0.00
13.61	2.00	0.00	0.00	0.01	0.00	13.62	2.00	0.00	0.00	0.01	0.00
13.63	2.00	0.00	0.00	0.01	0.00	13.64	2.00	0.00	0.00	0.01	0.00
13.65	2.00	0.00	0.00	0.01	0.00	13.66	2.00	0.00	0.00	0.01	0.00
13.67	2.00	0.00	0.00	0.01	0.00	13.68	2.00	0.00	0.00	0.01	0.00
13.69	2.00	0.00	0.00	0.01	0.00	13.70	2.00	0.00	0.00	0.01	0.00
13.71	2.00	0.00	0.00	0.01	0.00	13.72	2.00	0.00	0.00	0.01	0.00
13.73	2.00	0.00	0.00	0.01	0.00	13.74	2.00	0.00	0.00	0.01	0.00
13.75	2.00	0.00	0.00	0.01	0.00	13.76	2.00	0.00	0.00	0.01	0.00
13.77	2.00	0.00	0.00	0.01	0.00	13.78	2.00	0.00	0.00	0.01	0.00
13.79	2.00	0.00	0.00	0.01	0.00	13.80	2.00	0.00	0.00	0.01	0.00
13.81	2.00	0.00	0.00	0.01	0.00	13.82	2.00	0.00	0.00	0.01	0.00
13.83	2.00	0.00	0.00	0.01	0.00	13.84	2.00	0.00	0.00	0.01	0.00
13.85	2.00	0.00	0.00	0.01	0.00	13.86	2.00	0.00	0.00	0.01	0.00
13.87	2.00	0.00	0.00	0.01	0.00	13.88	2.00	0.00	0.00	0.01	0.00
13.89	2.00	0.00	0.00	0.01	0.00	13.90	2.00	0.00	0.00	0.01	0.00
13.91	2.00	0.00	0.00	0.01	0.00	13.92	2.00	0.00	0.00	0.01	0.00
13.93	2.00	0.00	0.00	0.01	0.00	13.94	2.00	0.00	0.00	0.01	0.00
13.95	2.00	0.00	0.00	0.01	0.00	13.96	2.00	0.00	0.00	0.01	0.00
13.97	2.00	0.00	0.00	0.01	0.00	13.98	2.00	0.00	0.00	0.01	0.00
13.99	2.00	0.00	0.00	0.01	0.00	14.00	2.00	0.00	0.00	0.01	0.00
14.01	2.00	0.00	0.00	0.01	0.00	14.02	2.00	0.00	0.00	0.01	0.00
14.03	2.00	0.00	0.00	0.01	0.00	14.04	2.00	0.00	0.00	0.01	0.00
14.05	2.00	0.00	0.00	0.01	0.00	14.06	2.00	0.00	0.00	0.01	0.00
14.07	2.00	0.00	0.00	0.01	0.00	14.08	2.00	0.00	0.00	0.01	0.00
14.09	2.00	0.00	0.00	0.01	0.00	14.10	2.00	0.00	0.00	0.01	0.00
14.11	2.00	0.00	0.00	0.01	0.00	14.12	2.00	0.00	0.00	0.01	0.00
14.13	2.00	0.00	0.00	0.01	0.00	14.14	2.00	0.00	0.00	0.01	0.00
14.15	2.00	0.00	0.00	0.01	0.00	14.16	2.00	0.00	0.00	0.01	0.00
14.17	2.00	0.00	0.00	0.01	0.00	14.18	2.00	0.00	0.00	0.01	0.00
14.19	2.00	0.00	0.00	0.01	0.00	14.20	2.00	0.00	0.00	0.01	0.00
14.21	2.00	0.00	0.00	0.01	0.00	14.22	2.00	0.00	0.00	0.01	0.00
14.23	2.00	0.00	0.00	0.01	0.00	14.24	2.00	0.00	0.00	0.01	0.00
14.25	2.00	0.00	0.00	0.01	0.00	14.26	2.00	0.00	0.00	0.01	0.00
14.27	2.00	0.00	0.00	0.01	0.00	14.28	2.00	0.00	0.00	0.01	0.00
14.29	2.00	0.00	0.00	0.01	0.00	14.30	2.00	0.00	0.00	0.01	0.00
14.31	2.00	0.00	0.00	0.01	0.00	14.32	2.00	0.00	0.00	0.01	0.00
14.33	2.00	0.00	0.00	0.01	0.00	14.34	2.00	0.00	0.00	0.01	0.00
14.35	2.00	0.00	0.00	0.01	0.00	14.36	2.00	0.00	0.00	0.01	0.00
14.37	2.00	0.00	0.00	0.01	0.00	14.38	2.00	0.00	0.00	0.01	0.00
14.39	2.00	0.00	0.00	0.01	0.00	14.40	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.41	2.00	0.00	0.00	0.01	0.00	14.42	2.00	0.00	0.00	0.01	0.00
14.43	2.00	0.00	0.00	0.01	0.00	14.44	2.00	0.00	0.00	0.01	0.00
14.45	2.00	0.00	0.00	0.01	0.00	14.46	2.00	0.00	0.00	0.01	0.00
14.47	2.00	0.00	0.00	0.01	0.00	14.48	2.00	0.00	0.00	0.01	0.00
14.49	2.00	0.00	0.00	0.01	0.00	14.50	2.00	0.00	0.00	0.01	0.00
14.51	2.00	0.00	0.00	0.01	0.00	14.52	2.00	0.00	0.00	0.01	0.00
14.53	2.00	0.00	0.00	0.01	0.00	14.54	2.00	0.00	0.00	0.01	0.00
14.55	2.00	0.00	0.00	0.01	0.00	14.56	2.00	0.00	0.00	0.01	0.00
14.57	2.00	0.00	0.00	0.01	0.00	14.58	2.00	0.00	0.00	0.01	0.00
14.59	2.00	0.00	0.00	0.01	0.00	14.60	2.00	0.00	0.00	0.01	0.00
14.61	2.00	0.00	0.00	0.01	0.00	14.62	2.00	0.00	0.00	0.01	0.00
14.63	2.00	0.00	0.00	0.01	0.00	14.64	2.00	0.00	0.00	0.01	0.00
14.65	2.00	0.00	0.00	0.01	0.00	14.66	2.00	0.00	0.00	0.01	0.00
14.67	2.00	0.00	0.00	0.01	0.00	14.68	2.00	0.00	0.00	0.01	0.00
14.69	2.00	0.00	0.00	0.01	0.00	14.70	2.00	0.00	0.00	0.01	0.00
14.71	2.00	0.00	0.00	0.01	0.00	14.72	2.00	0.00	0.00	0.01	0.00
14.73	2.00	0.00	0.00	0.01	0.00	14.74	2.00	0.00	0.00	0.01	0.00
14.75	2.00	0.00	0.00	0.01	0.00	14.76	2.00	0.00	0.00	0.01	0.00
14.77	2.00	0.00	0.00	0.01	0.00	14.78	2.00	0.00	0.00	0.01	0.00
14.79	2.00	0.00	0.00	0.01	0.00	14.80	2.00	0.00	0.00	0.01	0.00
14.81	2.00	0.00	0.00	0.01	0.00	14.82	2.00	0.00	0.00	0.01	0.00
14.83	2.00	0.00	0.00	0.01	0.00	14.84	2.00	0.00	0.00	0.01	0.00
14.85	2.00	0.00	0.00	0.01	0.00	14.86	2.00	0.00	0.00	0.01	0.00
14.87	2.00	0.00	0.00	0.01	0.00	14.88	2.00	0.00	0.00	0.01	0.00
14.89	2.00	0.00	0.00	0.01	0.00	14.90	2.00	0.00	0.00	0.01	0.00
14.91	2.00	0.00	0.00	0.01	0.00	14.92	2.00	0.00	0.00	0.01	0.00
14.93	2.00	0.00	0.00	0.01	0.00	14.94	2.00	0.00	0.00	0.01	0.00
14.95	2.00	0.00	0.00	0.01	0.00	14.96	2.00	0.00	0.00	0.01	0.00
14.97	2.00	0.00	0.00	0.01	0.00	14.98	2.00	0.00	0.00	0.01	0.00
14.99	2.00	0.00	0.00	0.01	0.00	15.00	2.00	0.00	0.00	0.01	0.00
15.01	2.00	0.00	0.00	0.01	0.00	15.02	2.00	0.00	0.00	0.01	0.00
15.03	2.00	0.00	0.00	0.01	0.00	15.04	2.00	0.00	0.00	0.01	0.00
15.05	2.00	0.00	0.00	0.01	0.00	15.06	2.00	0.00	0.00	0.01	0.00
15.07	2.00	0.00	0.00	0.01	0.00	15.08	2.00	0.00	0.00	0.01	0.00
15.09	2.00	0.00	0.00	0.01	0.00	15.10	2.00	0.00	0.00	0.01	0.00
15.11	2.00	0.00	0.00	0.01	0.00	15.12	2.00	0.00	0.00	0.01	0.00
15.13	2.00	0.00	0.00	0.01	0.00	15.14	2.00	0.00	0.00	0.01	0.00
15.15	2.00	0.00	0.00	0.01	0.00	15.16	2.00	0.00	0.00	0.01	0.00
15.17	2.00	0.00	0.00	0.01	0.00	15.18	2.00	0.00	0.00	0.01	0.00
15.19	2.00	0.00	0.00	0.01	0.00	15.20	2.00	0.00	0.00	0.01	0.00
15.21	2.00	0.00	0.00	0.01	0.00	15.22	2.00	0.00	0.00	0.01	0.00
15.23	2.00	0.00	0.00	0.01	0.00	15.24	2.00	0.00	0.00	0.01	0.00
15.25	2.00	0.00	0.00	0.01	0.00	15.26	2.00	0.00	0.00	0.01	0.00
15.27	2.00	0.00	0.00	0.01	0.00	15.28	2.00	0.00	0.00	0.01	0.00
15.29	2.00	0.00	0.00	0.01	0.00	15.30	2.00	0.00	0.00	0.01	0.00
15.31	2.00	0.00	0.00	0.01	0.00	15.32	2.00	0.00	0.00	0.01	0.00
15.33	2.00	0.00	0.00	0.01	0.00	15.34	2.00	0.00	0.00	0.01	0.00
15.35	2.00	0.00	0.00	0.01	0.00	15.36	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.37	2.00	0.00	0.00	0.01	0.00	15.38	2.00	0.00	0.00	0.01	0.00
15.39	2.00	0.00	0.00	0.01	0.00	15.40	2.00	0.00	0.00	0.01	0.00
15.41	2.00	0.00	0.00	0.01	0.00	15.42	2.00	0.00	0.00	0.01	0.00
15.43	2.00	0.00	0.00	0.01	0.00	15.44	2.00	0.00	0.00	0.01	0.00
15.45	2.00	0.00	0.00	0.01	0.00	15.46	2.00	0.00	0.00	0.01	0.00
15.47	2.00	0.00	0.00	0.01	0.00	15.48	2.00	0.00	0.00	0.01	0.00
15.49	2.00	0.00	0.00	0.01	0.00	15.50	2.00	0.00	0.00	0.01	0.00
15.51	2.00	0.00	0.00	0.01	0.00	15.52	2.00	0.00	0.00	0.01	0.00
15.53	2.00	0.00	0.00	0.01	0.00	15.54	2.00	0.00	0.00	0.01	0.00
15.55	2.00	0.00	0.00	0.01	0.00	15.56	2.00	0.00	0.00	0.01	0.00
15.57	2.00	0.00	0.00	0.01	0.00	15.58	2.00	0.00	0.00	0.01	0.00
15.59	2.00	0.00	0.00	0.01	0.00	15.60	2.00	0.00	0.00	0.01	0.00
15.61	2.00	0.00	0.00	0.01	0.00	15.62	2.00	0.00	0.00	0.01	0.00
15.63	2.00	0.00	0.00	0.01	0.00	15.64	2.00	0.00	0.00	0.01	0.00
15.65	2.00	0.00	0.00	0.01	0.00	15.66	2.00	0.00	0.00	0.01	0.00
15.67	2.00	0.00	0.00	0.01	0.00	15.68	2.00	0.00	0.00	0.01	0.00
15.69	2.00	0.00	0.00	0.01	0.00	15.70	2.00	0.00	0.00	0.01	0.00
15.71	2.00	0.00	0.00	0.01	0.00	15.72	2.00	0.00	0.00	0.01	0.00
15.73	2.00	0.00	0.00	0.01	0.00	15.74	2.00	0.00	0.00	0.01	0.00
15.75	2.00	0.00	0.00	0.01	0.00	15.76	2.00	0.00	0.00	0.01	0.00
15.77	2.00	0.00	0.00	0.01	0.00	15.78	2.00	0.00	0.00	0.01	0.00
15.79	2.00	0.00	0.00	0.01	0.00	15.80	2.00	0.00	0.00	0.01	0.00
15.81	2.00	0.00	0.00	0.01	0.00	15.82	2.00	0.00	0.00	0.01	0.00
15.83	2.00	0.00	0.00	0.01	0.00	15.84	2.00	0.00	0.00	0.01	0.00
15.85	2.00	0.00	0.00	0.01	0.00	15.86	2.00	0.00	0.00	0.01	0.00
15.87	2.00	0.00	0.00	0.01	0.00	15.88	2.00	0.00	0.00	0.01	0.00
15.89	2.00	0.00	0.00	0.01	0.00	15.90	2.00	0.00	0.00	0.01	0.00
15.91	2.00	0.00	0.00	0.01	0.00	15.92	2.00	0.00	0.00	0.01	0.00
15.93	2.00	0.00	0.00	0.01	0.00	15.94	2.00	0.00	0.00	0.01	0.00
15.95	2.00	0.00	0.00	0.01	0.00	15.96	2.00	0.00	0.00	0.01	0.00
15.97	2.00	0.00	0.00	0.01	0.00	15.98	2.00	0.00	0.00	0.01	0.00
15.99	2.00	0.00	0.00	0.01	0.00	16.00	2.00	0.00	0.00	0.01	0.00
16.01	2.00	0.00	0.00	0.01	0.00	16.02	2.00	0.00	0.00	0.01	0.00
16.03	2.00	0.00	0.00	0.01	0.00	16.04	2.00	0.00	0.00	0.01	0.00
16.05	2.00	0.00	0.00	0.01	0.00	16.06	2.00	0.00	0.00	0.01	0.00
16.07	2.00	0.00	0.00	0.01	0.00	16.08	2.00	0.00	0.00	0.01	0.00
16.09	2.00	0.00	0.00	0.01	0.00	16.10	2.00	0.00	0.00	0.01	0.00
16.11	2.00	0.00	0.00	0.01	0.00	16.12	2.00	0.00	0.00	0.01	0.00
16.13	2.00	0.00	0.00	0.01	0.00	16.14	2.00	0.00	0.00	0.01	0.00
16.15	2.00	0.00	0.00	0.01	0.00	16.16	2.00	0.00	0.00	0.01	0.00
16.17	2.00	0.00	0.00	0.01	0.00	16.18	2.00	0.00	0.00	0.01	0.00
16.19	2.00	0.00	0.00	0.01	0.00	16.20	2.00	0.00	0.00	0.01	0.00
16.21	2.00	0.00	0.00	0.01	0.00	16.22	2.00	0.00	0.00	0.01	0.00
16.23	2.00	0.00	0.00	0.01	0.00	16.24	2.00	0.00	0.00	0.01	0.00
16.25	2.00	0.00	0.00	0.01	0.00	16.26	2.00	0.00	0.00	0.01	0.00
16.27	2.00	0.00	0.00	0.01	0.00	16.28	0.61	0.00	0.00	0.01	0.01
16.29	0.65	0.00	0.00	0.01	0.01	16.30	0.67	0.00	0.00	0.01	0.01
16.31	0.71	0.00	0.00	0.01	0.01	16.32	0.73	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.33	0.78	0.00	0.00	0.01	0.00	16.34	0.80	0.00	0.00	0.01	0.00
16.35	0.84	0.00	0.00	0.01	0.00	16.36	0.86	0.00	0.00	0.01	0.00
16.37	0.89	0.00	0.00	0.01	0.00	16.38	0.89	0.00	0.00	0.01	0.00
16.39	0.89	0.00	0.00	0.01	0.00	16.40	0.89	0.00	0.00	0.01	0.00
16.41	0.87	0.00	0.00	0.01	0.00	16.42	0.85	0.00	0.00	0.01	0.00
16.43	0.83	0.00	0.00	0.01	0.00	16.44	0.80	0.00	0.00	0.01	0.00
16.45	0.77	0.00	0.00	0.01	0.00	16.46	0.74	0.00	0.00	0.01	0.00
16.47	0.72	0.00	0.00	0.01	0.00	16.48	0.72	0.00	0.00	0.01	0.00
16.49	0.73	0.00	0.00	0.01	0.00	16.50	0.73	0.00	0.00	0.01	0.00
16.51	0.75	0.00	0.00	0.01	0.00	16.52	0.75	0.00	0.00	0.01	0.00
16.53	0.76	0.00	0.00	0.01	0.00	16.54	0.77	0.00	0.00	0.01	0.00
16.55	0.76	0.00	0.00	0.01	0.00	16.56	0.76	0.00	0.00	0.01	0.00
16.57	0.74	0.00	0.00	0.01	0.00	16.58	0.73	0.00	0.00	0.01	0.00
16.59	0.70	0.00	0.00	0.01	0.01	16.60	0.68	0.00	0.00	0.01	0.01
16.61	0.65	0.00	0.00	0.01	0.01	16.62	0.64	0.00	0.00	0.01	0.01
16.63	0.63	0.00	0.00	0.01	0.01	16.64	0.64	0.00	0.00	0.01	0.01
16.65	0.64	0.00	0.00	0.01	0.01	16.66	0.64	0.00	0.00	0.01	0.01
16.67	0.65	0.00	0.00	0.01	0.01	16.68	0.65	0.00	0.00	0.01	0.01
16.69	0.66	0.00	0.00	0.01	0.01	16.70	0.67	0.00	0.00	0.01	0.01
16.71	0.67	0.00	0.00	0.01	0.01	16.72	0.68	0.00	0.00	0.01	0.01
16.73	0.68	0.00	0.00	0.01	0.01	16.74	0.68	0.00	0.00	0.01	0.01
16.75	0.68	0.00	0.00	0.01	0.01	16.76	0.69	0.00	0.00	0.01	0.01
16.77	0.69	0.00	0.00	0.01	0.01	16.78	0.69	0.00	0.00	0.01	0.01
16.79	0.69	0.00	0.00	0.01	0.00	16.80	0.69	0.00	0.00	0.01	0.00
16.81	0.69	0.00	0.00	0.01	0.00	16.82	0.68	0.00	0.00	0.01	0.01
16.83	0.65	0.00	0.00	0.01	0.01	16.84	0.64	0.00	0.00	0.01	0.01
16.85	0.65	0.00	0.00	0.01	0.01	16.86	0.65	0.00	0.00	0.01	0.01
16.87	0.65	0.00	0.00	0.01	0.01	16.88	0.66	0.00	0.00	0.01	0.01
16.89	0.66	0.00	0.00	0.01	0.01	16.90	0.66	0.00	0.00	0.01	0.01
16.91	0.65	0.00	0.00	0.01	0.01	16.92	0.64	0.00	0.00	0.01	0.01
16.93	0.63	0.00	0.00	0.01	0.01	16.94	0.62	0.00	0.00	0.01	0.01
16.95	0.61	0.00	0.00	0.01	0.01	16.96	0.61	0.00	0.00	0.01	0.01
16.97	0.61	0.00	0.00	0.01	0.01	16.98	0.61	0.00	0.00	0.01	0.01
16.99	0.62	0.00	0.00	0.01	0.01	17.00	0.63	0.00	0.00	0.01	0.01
17.01	0.65	0.00	0.00	0.01	0.01	17.02	0.66	0.00	0.00	0.01	0.01
17.03	0.66	0.00	0.00	0.01	0.01	17.04	0.66	0.00	0.00	0.01	0.00
17.05	0.67	0.00	0.00	0.01	0.00	17.06	0.66	0.00	0.00	0.01	0.01
17.07	0.65	0.00	0.00	0.01	0.01	17.08	0.64	0.00	0.00	0.01	0.01
17.09	0.63	0.00	0.00	0.01	0.01	17.10	0.62	0.00	0.00	0.01	0.01
17.11	0.61	0.00	0.00	0.01	0.01	17.12	0.60	0.00	0.00	0.01	0.01
17.13	0.60	0.00	0.00	0.01	0.01	17.14	0.61	0.00	0.00	0.01	0.01
17.15	0.61	0.00	0.00	0.01	0.01	17.16	0.62	0.00	0.00	0.01	0.01
17.17	0.63	0.00	0.00	0.01	0.01	17.18	0.64	0.00	0.00	0.01	0.01
17.19	0.65	0.00	0.00	0.01	0.00	17.20	0.65	0.00	0.00	0.01	0.00
17.21	0.65	0.00	0.00	0.01	0.00	17.22	0.64	0.00	0.00	0.01	0.00
17.23	0.64	0.00	0.00	0.01	0.00	17.24	0.63	0.00	0.00	0.01	0.01
17.25	0.62	0.00	0.00	0.01	0.01	17.26	0.61	0.00	0.00	0.01	0.01
17.27	0.60	0.00	0.00	0.01	0.01	17.28	0.59	0.00	0.00	0.01	0.01

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
17.29	0.59	0.00	0.00	0.01	0.01	17.30	0.58	0.00	0.00	0.01	0.01
17.31	0.58	0.00	0.00	0.01	0.01	17.32	0.57	0.00	0.00	0.01	0.01
17.33	0.58	0.00	0.00	0.01	0.01	17.34	0.58	0.00	0.00	0.01	0.01
17.35	0.59	0.00	0.00	0.01	0.01	17.36	0.58	0.00	0.00	0.01	0.01
17.37	0.58	0.00	0.00	0.01	0.01	17.38	0.56	0.00	0.00	0.01	0.01
17.39	0.57	0.00	0.00	0.01	0.01	17.40	0.56	0.00	0.00	0.01	0.01
17.41	0.57	0.00	0.00	0.01	0.01	17.42	0.58	0.00	0.00	0.01	0.01
17.43	0.58	0.00	0.00	0.01	0.01	17.44	0.60	0.00	0.00	0.01	0.01
17.45	0.61	0.00	0.00	0.01	0.00	17.46	0.63	0.00	0.00	0.01	0.00
17.47	0.63	0.00	0.00	0.01	0.00	17.48	0.64	0.00	0.00	0.01	0.00
17.49	0.64	0.00	0.00	0.01	0.00	17.50	0.65	0.00	0.00	0.01	0.00
17.51	0.65	0.00	0.00	0.01	0.00	17.52	0.65	0.00	0.00	0.01	0.00
17.53	0.65	0.00	0.00	0.01	0.00	17.54	0.64	0.00	0.00	0.01	0.00
17.55	0.63	0.00	0.00	0.01	0.00	17.56	0.62	0.00	0.00	0.01	0.00
17.57	0.63	0.00	0.00	0.01	0.00	17.58	0.66	0.00	0.00	0.01	0.00
17.59	0.68	0.00	0.00	0.01	0.00	17.60	0.71	0.00	0.00	0.01	0.00
17.61	0.72	0.00	0.00	0.01	0.00	17.62	0.72	0.00	0.00	0.01	0.00
17.63	0.72	0.00	0.00	0.01	0.00	17.64	0.71	0.00	0.00	0.01	0.00
17.65	0.72	0.00	0.00	0.01	0.00						

Overall liquefaction potential: 1.62

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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http://www.geologismiki.gr

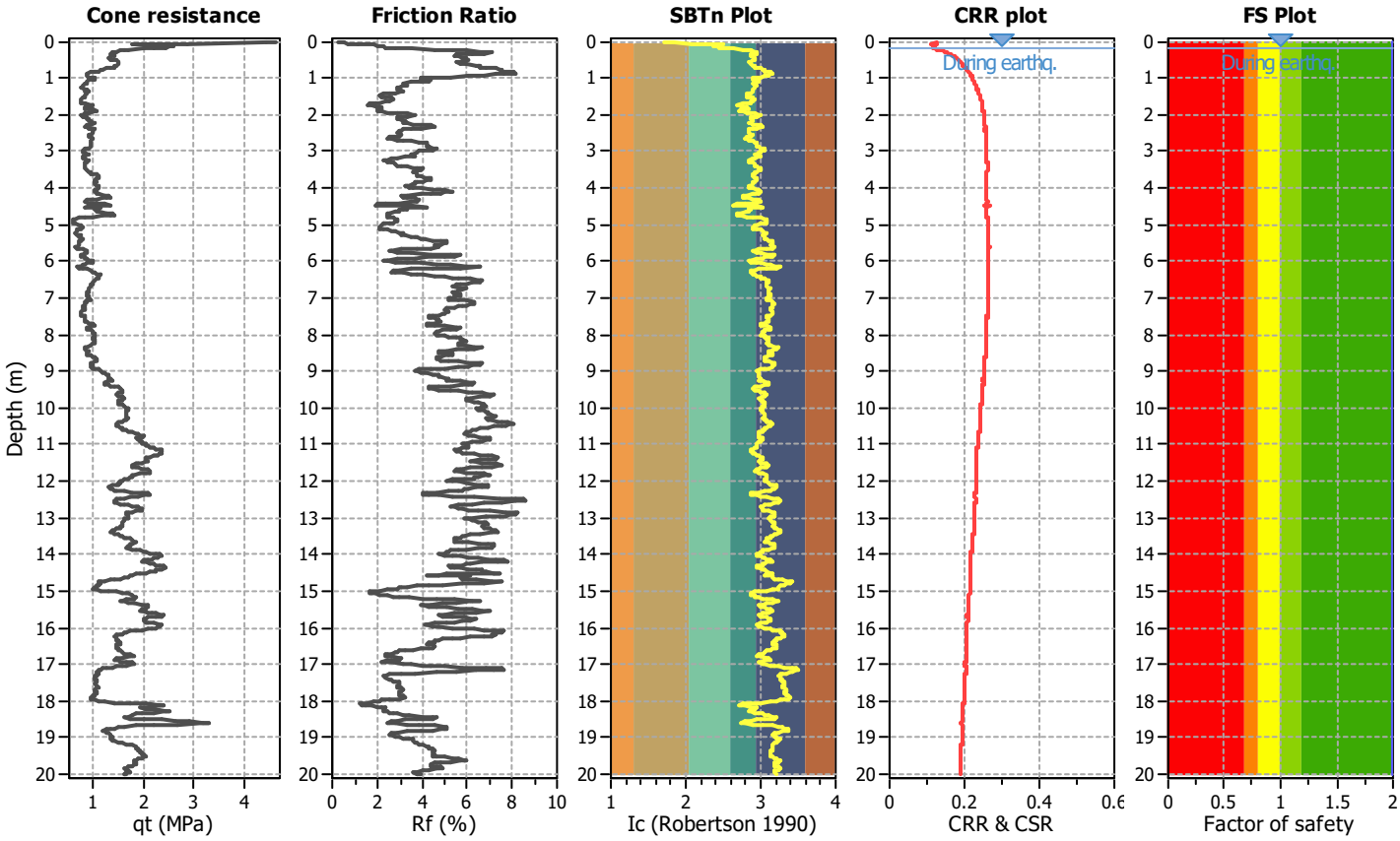
LIQUEFACTION ANALYSIS REPORT

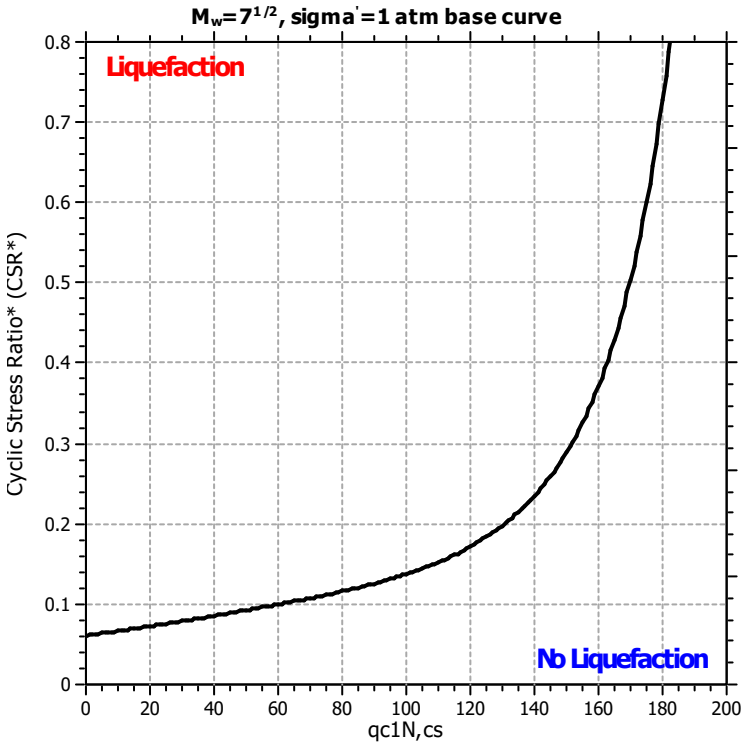
Project title : **Location :**

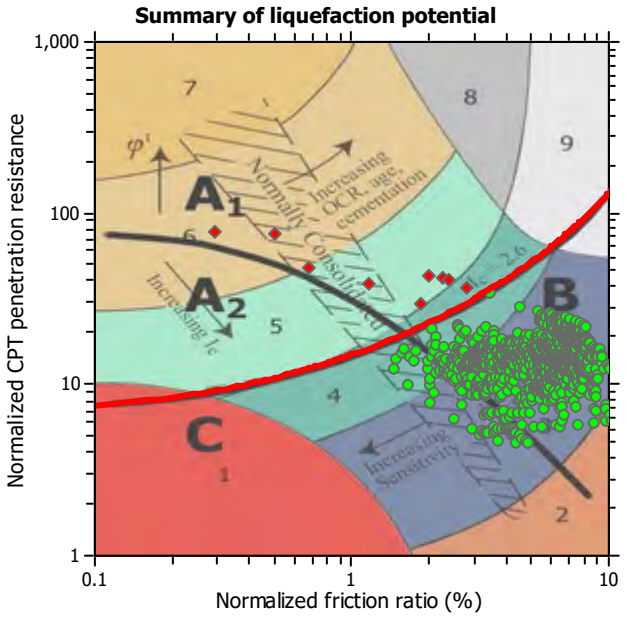
CPT file : SP023

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

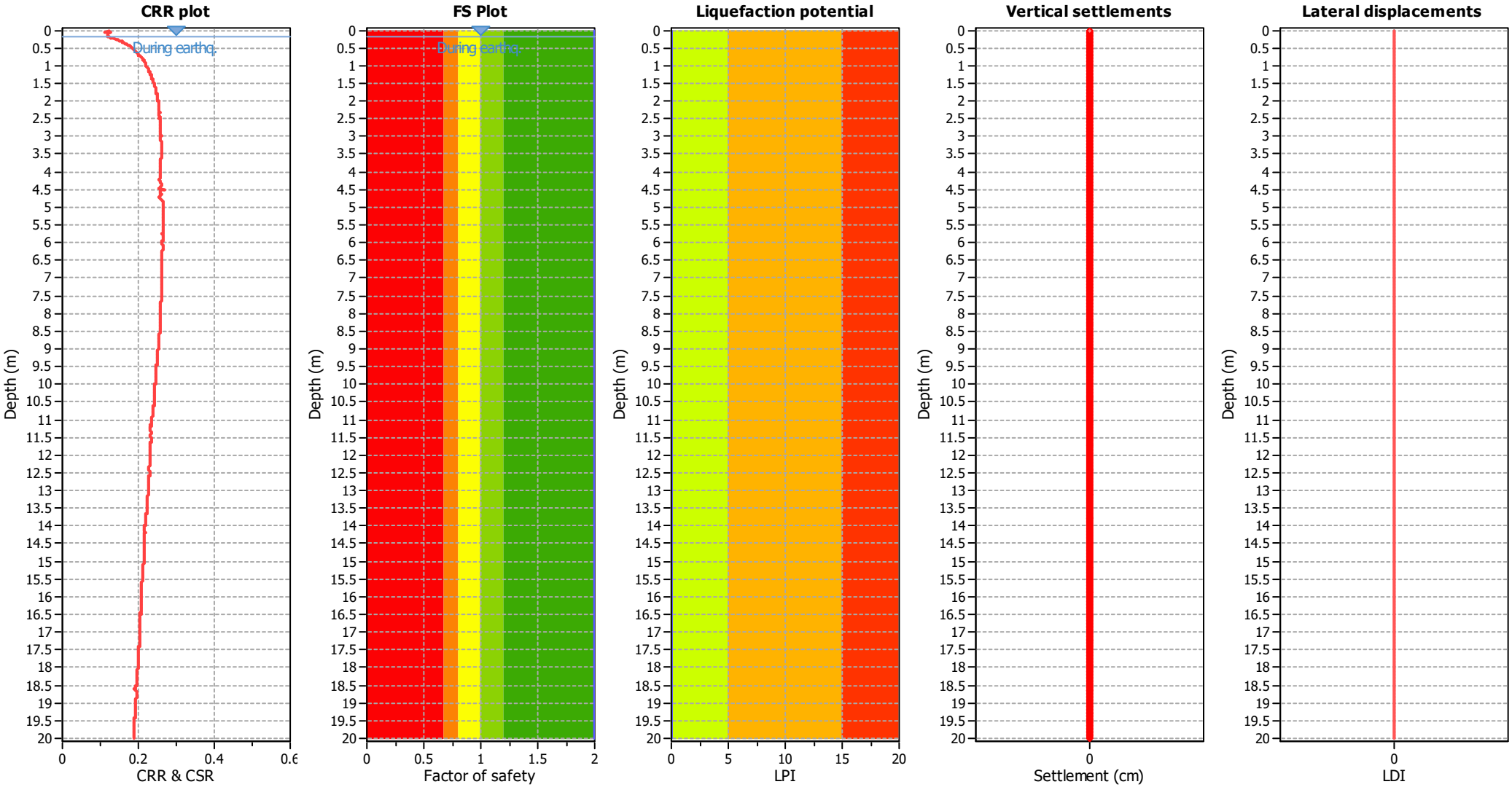






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.02	2.00	0.00	0.00	0.02	0.00	0.04	2.00	0.00	0.00	0.02	0.00
0.06	2.00	0.00	0.00	0.02	0.00	0.08	2.00	0.00	0.00	0.02	0.00
0.10	2.00	0.00	0.00	0.02	0.00	0.12	2.00	0.00	0.00	0.02	0.00
0.14	2.00	0.00	0.00	0.02	0.00	0.16	2.00	0.00	0.00	0.02	0.00
0.18	2.00	0.00	0.00	0.02	0.00	0.20	2.00	0.00	0.00	0.02	0.00
0.22	2.00	0.00	0.00	0.02	0.00	0.24	2.00	0.00	0.00	0.02	0.00
0.26	2.00	0.00	0.00	0.02	0.00	0.28	2.00	0.00	0.00	0.02	0.00
0.30	2.00	0.00	0.00	0.02	0.00	0.32	2.00	0.00	0.00	0.02	0.00
0.34	2.00	0.00	0.00	0.02	0.00	0.36	2.00	0.00	0.00	0.02	0.00
0.38	2.00	0.00	0.00	0.02	0.00	0.40	2.00	0.00	0.00	0.02	0.00
0.42	2.00	0.00	0.00	0.02	0.00	0.44	2.00	0.00	0.00	0.02	0.00
0.46	2.00	0.00	0.00	0.02	0.00	0.48	2.00	0.00	0.00	0.02	0.00
0.50	2.00	0.00	0.00	0.02	0.00	0.52	2.00	0.00	0.00	0.02	0.00
0.54	2.00	0.00	0.00	0.02	0.00	0.56	2.00	0.00	0.00	0.02	0.00
0.58	2.00	0.00	0.00	0.02	0.00	0.60	2.00	0.00	0.00	0.02	0.00
0.62	2.00	0.00	0.00	0.02	0.00	0.64	2.00	0.00	0.00	0.02	0.00
0.66	2.00	0.00	0.00	0.02	0.00	0.68	2.00	0.00	0.00	0.02	0.00
0.70	2.00	0.00	0.00	0.02	0.00	0.72	2.00	0.00	0.00	0.02	0.00
0.74	2.00	0.00	0.00	0.02	0.00	0.76	2.00	0.00	0.00	0.02	0.00
0.78	2.00	0.00	0.00	0.02	0.00	0.80	2.00	0.00	0.00	0.02	0.00
0.82	2.00	0.00	0.00	0.02	0.00	0.84	2.00	0.00	0.00	0.02	0.00
0.86	2.00	0.00	0.00	0.02	0.00	0.88	2.00	0.00	0.00	0.02	0.00
0.90	2.00	0.00	0.00	0.02	0.00	0.92	2.00	0.00	0.00	0.02	0.00
0.94	2.00	0.00	0.00	0.02	0.00	0.96	2.00	0.00	0.00	0.02	0.00
0.98	2.00	0.00	0.00	0.02	0.00	1.00	2.00	0.00	0.00	0.02	0.00
1.02	2.00	0.00	0.00	0.02	0.00	1.04	2.00	0.00	0.00	0.02	0.00
1.06	2.00	0.00	0.00	0.02	0.00	1.08	2.00	0.00	0.00	0.02	0.00
1.10	2.00	0.00	0.00	0.02	0.00	1.12	2.00	0.00	0.00	0.02	0.00
1.14	2.00	0.00	0.00	0.02	0.00	1.16	2.00	0.00	0.00	0.02	0.00
1.18	2.00	0.00	0.00	0.02	0.00	1.20	2.00	0.00	0.00	0.02	0.00
1.22	2.00	0.00	0.00	0.02	0.00	1.24	2.00	0.00	0.00	0.02	0.00
1.26	2.00	0.00	0.00	0.02	0.00	1.28	2.00	0.00	0.00	0.02	0.00
1.30	2.00	0.00	0.00	0.02	0.00	1.32	2.00	0.00	0.00	0.02	0.00
1.34	2.00	0.00	0.00	0.02	0.00	1.36	2.00	0.00	0.00	0.02	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.42	2.00	0.00	0.00	0.02	0.00	1.44	2.00	0.00	0.00	0.02	0.00
1.46	2.00	0.00	0.00	0.02	0.00	1.48	2.00	0.00	0.00	0.02	0.00
1.50	2.00	0.00	0.00	0.02	0.00	1.52	2.00	0.00	0.00	0.02	0.00
1.54	2.00	0.00	0.00	0.02	0.00	1.56	2.00	0.00	0.00	0.02	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.02	0.00
1.62	2.00	0.00	0.00	0.02	0.00	1.64	2.00	0.00	0.00	0.02	0.00
1.66	2.00	0.00	0.00	0.02	0.00	1.68	2.00	0.00	0.00	0.02	0.00
1.70	2.00	0.00	0.00	0.02	0.00	1.72	2.00	0.00	0.00	0.02	0.00
1.74	2.00	0.00	0.00	0.02	0.00	1.76	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.02	0.00
1.82	2.00	0.00	0.00	0.02	0.00	1.84	2.00	0.00	0.00	0.02	0.00
1.86	2.00	0.00	0.00	0.02	0.00	1.88	2.00	0.00	0.00	0.02	0.00
1.90	2.00	0.00	0.00	0.02	0.00	1.92	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.94	2.00	0.00	0.00	0.02	0.00	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.02	2.00	0.00	0.00	0.02	0.00	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	2.00	0.00	0.00	0.02	0.00
2.10	2.00	0.00	0.00	0.02	0.00	2.12	2.00	0.00	0.00	0.02	0.00
2.14	2.00	0.00	0.00	0.02	0.00	2.16	2.00	0.00	0.00	0.02	0.00
2.18	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00
2.42	2.00	0.00	0.00	0.02	0.00	2.44	2.00	0.00	0.00	0.02	0.00
2.46	2.00	0.00	0.00	0.02	0.00	2.48	2.00	0.00	0.00	0.02	0.00
2.50	2.00	0.00	0.00	0.02	0.00	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	2.00	0.00	0.00	0.02	0.00	2.64	2.00	0.00	0.00	0.02	0.00
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	2.00	0.00	0.00	0.02	0.00
2.74	2.00	0.00	0.00	0.02	0.00	2.76	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00
2.82	2.00	0.00	0.00	0.02	0.00	2.84	2.00	0.00	0.00	0.02	0.00
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	2.00	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	2.00	0.00	0.00	0.02	0.00	3.08	2.00	0.00	0.00	0.02	0.00
3.10	2.00	0.00	0.00	0.02	0.00	3.12	2.00	0.00	0.00	0.02	0.00
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.42	2.00	0.00	0.00	0.02	0.00	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.02	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.62	2.00	0.00	0.00	0.02	0.00	3.64	2.00	0.00	0.00	0.02	0.00
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	2.00	0.00	0.00	0.02	0.00
3.74	2.00	0.00	0.00	0.02	0.00	3.76	2.00	0.00	0.00	0.02	0.00
3.78	2.00	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.82	2.00	0.00	0.00	0.02	0.00	3.84	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.86	2.00	0.00	0.00	0.02	0.00	3.88	2.00	0.00	0.00	0.02	0.00
3.90	2.00	0.00	0.00	0.02	0.00	3.92	2.00	0.00	0.00	0.02	0.00
3.94	2.00	0.00	0.00	0.02	0.00	3.96	2.00	0.00	0.00	0.02	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.02	2.00	0.00	0.00	0.02	0.00	4.04	2.00	0.00	0.00	0.02	0.00
4.06	2.00	0.00	0.00	0.02	0.00	4.08	2.00	0.00	0.00	0.02	0.00
4.10	2.00	0.00	0.00	0.02	0.00	4.12	2.00	0.00	0.00	0.02	0.00
4.14	2.00	0.00	0.00	0.02	0.00	4.16	2.00	0.00	0.00	0.02	0.00
4.18	2.00	0.00	0.00	0.02	0.00	4.20	2.00	0.00	0.00	0.02	0.00
4.22	2.00	0.00	0.00	0.02	0.00	4.24	2.00	0.00	0.00	0.02	0.00
4.26	2.00	0.00	0.00	0.02	0.00	4.28	2.00	0.00	0.00	0.02	0.00
4.30	2.00	0.00	0.00	0.02	0.00	4.32	2.00	0.00	0.00	0.02	0.00
4.34	2.00	0.00	0.00	0.02	0.00	4.36	2.00	0.00	0.00	0.02	0.00
4.38	2.00	0.00	0.00	0.02	0.00	4.40	2.00	0.00	0.00	0.02	0.00
4.42	2.00	0.00	0.00	0.02	0.00	4.44	2.00	0.00	0.00	0.02	0.00
4.46	2.00	0.00	0.00	0.02	0.00	4.48	2.00	0.00	0.00	0.02	0.00
4.50	2.00	0.00	0.00	0.02	0.00	4.52	2.00	0.00	0.00	0.02	0.00
4.54	2.00	0.00	0.00	0.02	0.00	4.56	2.00	0.00	0.00	0.02	0.00
4.58	2.00	0.00	0.00	0.02	0.00	4.60	2.00	0.00	0.00	0.02	0.00
4.62	2.00	0.00	0.00	0.02	0.00	4.64	2.00	0.00	0.00	0.02	0.00
4.66	2.00	0.00	0.00	0.02	0.00	4.68	2.00	0.00	0.00	0.02	0.00
4.70	2.00	0.00	0.00	0.02	0.00	4.72	2.00	0.00	0.00	0.02	0.00
4.74	2.00	0.00	0.00	0.02	0.00	4.76	2.00	0.00	0.00	0.02	0.00
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	2.00	0.00	0.00	0.02	0.00
4.86	2.00	0.00	0.00	0.02	0.00	4.88	2.00	0.00	0.00	0.02	0.00
4.90	2.00	0.00	0.00	0.02	0.00	4.92	2.00	0.00	0.00	0.02	0.00
4.94	2.00	0.00	0.00	0.02	0.00	4.96	2.00	0.00	0.00	0.02	0.00
4.98	2.00	0.00	0.00	0.02	0.00	5.00	2.00	0.00	0.00	0.02	0.00
5.02	2.00	0.00	0.00	0.02	0.00	5.04	2.00	0.00	0.00	0.02	0.00
5.06	2.00	0.00	0.00	0.02	0.00	5.08	2.00	0.00	0.00	0.02	0.00
5.10	2.00	0.00	0.00	0.02	0.00	5.12	2.00	0.00	0.00	0.02	0.00
5.14	2.00	0.00	0.00	0.02	0.00	5.16	2.00	0.00	0.00	0.02	0.00
5.18	2.00	0.00	0.00	0.02	0.00	5.20	2.00	0.00	0.00	0.02	0.00
5.22	2.00	0.00	0.00	0.02	0.00	5.24	2.00	0.00	0.00	0.02	0.00
5.26	2.00	0.00	0.00	0.02	0.00	5.28	2.00	0.00	0.00	0.02	0.00
5.30	2.00	0.00	0.00	0.02	0.00	5.32	2.00	0.00	0.00	0.02	0.00
5.34	2.00	0.00	0.00	0.02	0.00	5.36	2.00	0.00	0.00	0.02	0.00
5.38	2.00	0.00	0.00	0.02	0.00	5.40	2.00	0.00	0.00	0.02	0.00
5.42	2.00	0.00	0.00	0.02	0.00	5.44	2.00	0.00	0.00	0.02	0.00
5.46	2.00	0.00	0.00	0.02	0.00	5.48	2.00	0.00	0.00	0.02	0.00
5.50	2.00	0.00	0.00	0.02	0.00	5.52	2.00	0.00	0.00	0.02	0.00
5.54	2.00	0.00	0.00	0.02	0.00	5.56	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.02	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.62	2.00	0.00	0.00	0.02	0.00	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	2.00	0.00	0.00	0.02	0.00
5.86	2.00	0.00	0.00	0.02	0.00	5.88	2.00	0.00	0.00	0.02	0.00
5.90	2.00	0.00	0.00	0.02	0.00	5.92	2.00	0.00	0.00	0.02	0.00
5.94	2.00	0.00	0.00	0.02	0.00	5.96	2.00	0.00	0.00	0.02	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.02	0.00
6.02	2.00	0.00	0.00	0.02	0.00	6.04	2.00	0.00	0.00	0.02	0.00
6.06	2.00	0.00	0.00	0.02	0.00	6.08	2.00	0.00	0.00	0.02	0.00
6.10	2.00	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00	9.44	2.00	0.00	0.00	0.02	0.00
9.46	2.00	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.62	2.00	0.00	0.00	0.02	0.00	9.64	2.00	0.00	0.00	0.02	0.00
9.66	2.00	0.00	0.00	0.02	0.00	9.68	2.00	0.00	0.00	0.02	0.00
9.70	2.00	0.00	0.00	0.02	0.00	9.72	2.00	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.22	2.00	0.00	0.00	0.02	0.00	10.24	2.00	0.00	0.00	0.02	0.00
10.26	2.00	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	2.00	0.00	0.00	0.02	0.00	10.32	2.00	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00
10.50	2.00	0.00	0.00	0.02	0.00	10.52	2.00	0.00	0.00	0.02	0.00
10.54	2.00	0.00	0.00	0.02	0.00	10.56	2.00	0.00	0.00	0.02	0.00
10.58	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.02	0.00
10.62	2.00	0.00	0.00	0.02	0.00	10.64	2.00	0.00	0.00	0.02	0.00
10.66	2.00	0.00	0.00	0.02	0.00	10.68	2.00	0.00	0.00	0.02	0.00
10.70	2.00	0.00	0.00	0.02	0.00	10.72	2.00	0.00	0.00	0.02	0.00
10.74	2.00	0.00	0.00	0.02	0.00	10.76	2.00	0.00	0.00	0.02	0.00
10.78	2.00	0.00	0.00	0.02	0.00	10.80	2.00	0.00	0.00	0.02	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.84	2.00	0.00	0.00	0.02	0.00
10.86	2.00	0.00	0.00	0.02	0.00	10.88	2.00	0.00	0.00	0.02	0.00
10.90	2.00	0.00	0.00	0.02	0.00	10.92	2.00	0.00	0.00	0.02	0.00
10.94	2.00	0.00	0.00	0.02	0.00	10.96	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.02	0.00	11.00	2.00	0.00	0.00	0.02	0.00
11.02	2.00	0.00	0.00	0.02	0.00	11.04	2.00	0.00	0.00	0.02	0.00
11.06	2.00	0.00	0.00	0.02	0.00	11.08	2.00	0.00	0.00	0.02	0.00
11.10	2.00	0.00	0.00	0.02	0.00	11.12	2.00	0.00	0.00	0.02	0.00
11.14	2.00	0.00	0.00	0.02	0.00	11.16	2.00	0.00	0.00	0.02	0.00
11.18	2.00	0.00	0.00	0.02	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.22	2.00	0.00	0.00	0.02	0.00	11.24	2.00	0.00	0.00	0.02	0.00
11.26	2.00	0.00	0.00	0.02	0.00	11.28	2.00	0.00	0.00	0.02	0.00
11.30	2.00	0.00	0.00	0.02	0.00	11.32	2.00	0.00	0.00	0.02	0.00
11.34	2.00	0.00	0.00	0.02	0.00	11.36	2.00	0.00	0.00	0.02	0.00
11.38	2.00	0.00	0.00	0.02	0.00	11.40	2.00	0.00	0.00	0.02	0.00
11.42	2.00	0.00	0.00	0.02	0.00	11.44	2.00	0.00	0.00	0.02	0.00
11.46	2.00	0.00	0.00	0.02	0.00	11.48	2.00	0.00	0.00	0.02	0.00
11.50	2.00	0.00	0.00	0.02	0.00	11.52	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.54	2.00	0.00	0.00	0.02	0.00	11.56	2.00	0.00	0.00	0.02	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.02	0.00
11.62	2.00	0.00	0.00	0.02	0.00	11.64	2.00	0.00	0.00	0.02	0.00
11.66	2.00	0.00	0.00	0.02	0.00	11.68	2.00	0.00	0.00	0.02	0.00
11.70	2.00	0.00	0.00	0.02	0.00	11.72	2.00	0.00	0.00	0.02	0.00
11.74	2.00	0.00	0.00	0.02	0.00	11.76	2.00	0.00	0.00	0.02	0.00
11.78	2.00	0.00	0.00	0.02	0.00	11.80	2.00	0.00	0.00	0.02	0.00
11.82	2.00	0.00	0.00	0.02	0.00	11.84	2.00	0.00	0.00	0.02	0.00
11.86	2.00	0.00	0.00	0.02	0.00	11.88	2.00	0.00	0.00	0.02	0.00
11.90	2.00	0.00	0.00	0.02	0.00	11.92	2.00	0.00	0.00	0.02	0.00
11.94	2.00	0.00	0.00	0.02	0.00	11.96	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.02	0.00	12.00	2.00	0.00	0.00	0.02	0.00
12.02	2.00	0.00	0.00	0.02	0.00	12.04	2.00	0.00	0.00	0.02	0.00
12.06	2.00	0.00	0.00	0.02	0.00	12.08	2.00	0.00	0.00	0.02	0.00
12.10	2.00	0.00	0.00	0.02	0.00	12.12	2.00	0.00	0.00	0.02	0.00
12.14	2.00	0.00	0.00	0.02	0.00	12.16	2.00	0.00	0.00	0.02	0.00
12.18	2.00	0.00	0.00	0.02	0.00	12.20	2.00	0.00	0.00	0.02	0.00
12.22	2.00	0.00	0.00	0.02	0.00	12.24	2.00	0.00	0.00	0.02	0.00
12.26	2.00	0.00	0.00	0.02	0.00	12.28	2.00	0.00	0.00	0.02	0.00
12.30	2.00	0.00	0.00	0.02	0.00	12.32	2.00	0.00	0.00	0.02	0.00
12.34	2.00	0.00	0.00	0.02	0.00	12.36	2.00	0.00	0.00	0.02	0.00
12.38	2.00	0.00	0.00	0.02	0.00	12.40	2.00	0.00	0.00	0.02	0.00
12.42	2.00	0.00	0.00	0.02	0.00	12.44	2.00	0.00	0.00	0.02	0.00
12.46	2.00	0.00	0.00	0.02	0.00	12.48	2.00	0.00	0.00	0.02	0.00
12.50	2.00	0.00	0.00	0.02	0.00	12.52	2.00	0.00	0.00	0.02	0.00
12.54	2.00	0.00	0.00	0.02	0.00	12.56	2.00	0.00	0.00	0.02	0.00
12.58	2.00	0.00	0.00	0.02	0.00	12.60	2.00	0.00	0.00	0.02	0.00
12.62	2.00	0.00	0.00	0.02	0.00	12.64	2.00	0.00	0.00	0.02	0.00
12.66	2.00	0.00	0.00	0.02	0.00	12.68	2.00	0.00	0.00	0.02	0.00
12.70	2.00	0.00	0.00	0.02	0.00	12.72	2.00	0.00	0.00	0.02	0.00
12.74	2.00	0.00	0.00	0.02	0.00	12.76	2.00	0.00	0.00	0.02	0.00
12.78	2.00	0.00	0.00	0.02	0.00	12.80	2.00	0.00	0.00	0.02	0.00
12.82	2.00	0.00	0.00	0.02	0.00	12.84	2.00	0.00	0.00	0.02	0.00
12.86	2.00	0.00	0.00	0.02	0.00	12.88	2.00	0.00	0.00	0.02	0.00
12.90	2.00	0.00	0.00	0.02	0.00	12.92	2.00	0.00	0.00	0.02	0.00
12.94	2.00	0.00	0.00	0.02	0.00	12.96	2.00	0.00	0.00	0.02	0.00
12.98	2.00	0.00	0.00	0.02	0.00	13.00	2.00	0.00	0.00	0.02	0.00
13.02	2.00	0.00	0.00	0.02	0.00	13.04	2.00	0.00	0.00	0.02	0.00
13.06	2.00	0.00	0.00	0.02	0.00	13.08	2.00	0.00	0.00	0.02	0.00
13.10	2.00	0.00	0.00	0.02	0.00	13.12	2.00	0.00	0.00	0.02	0.00
13.14	2.00	0.00	0.00	0.02	0.00	13.16	2.00	0.00	0.00	0.02	0.00
13.18	2.00	0.00	0.00	0.02	0.00	13.20	2.00	0.00	0.00	0.02	0.00
13.22	2.00	0.00	0.00	0.02	0.00	13.24	2.00	0.00	0.00	0.02	0.00
13.26	2.00	0.00	0.00	0.02	0.00	13.28	2.00	0.00	0.00	0.02	0.00
13.30	2.00	0.00	0.00	0.02	0.00	13.32	2.00	0.00	0.00	0.02	0.00
13.34	2.00	0.00	0.00	0.02	0.00	13.36	2.00	0.00	0.00	0.02	0.00
13.38	2.00	0.00	0.00	0.02	0.00	13.40	2.00	0.00	0.00	0.02	0.00
13.42	2.00	0.00	0.00	0.02	0.00	13.44	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.46	2.00	0.00	0.00	0.02	0.00	13.48	2.00	0.00	0.00	0.02	0.00
13.50	2.00	0.00	0.00	0.02	0.00	13.52	2.00	0.00	0.00	0.02	0.00
13.54	2.00	0.00	0.00	0.02	0.00	13.56	2.00	0.00	0.00	0.02	0.00
13.58	2.00	0.00	0.00	0.02	0.00	13.60	2.00	0.00	0.00	0.02	0.00
13.62	2.00	0.00	0.00	0.02	0.00	13.64	2.00	0.00	0.00	0.02	0.00
13.66	2.00	0.00	0.00	0.02	0.00	13.68	2.00	0.00	0.00	0.02	0.00
13.70	2.00	0.00	0.00	0.02	0.00	13.72	2.00	0.00	0.00	0.02	0.00
13.74	2.00	0.00	0.00	0.02	0.00	13.76	2.00	0.00	0.00	0.02	0.00
13.78	2.00	0.00	0.00	0.02	0.00	13.80	2.00	0.00	0.00	0.02	0.00
13.82	2.00	0.00	0.00	0.02	0.00	13.84	2.00	0.00	0.00	0.02	0.00
13.86	2.00	0.00	0.00	0.02	0.00	13.88	2.00	0.00	0.00	0.02	0.00
13.90	2.00	0.00	0.00	0.02	0.00	13.92	2.00	0.00	0.00	0.02	0.00
13.94	2.00	0.00	0.00	0.02	0.00	13.96	2.00	0.00	0.00	0.02	0.00
13.98	2.00	0.00	0.00	0.02	0.00	14.00	2.00	0.00	0.00	0.02	0.00
14.02	2.00	0.00	0.00	0.02	0.00	14.04	2.00	0.00	0.00	0.02	0.00
14.06	2.00	0.00	0.00	0.02	0.00	14.08	2.00	0.00	0.00	0.02	0.00
14.10	2.00	0.00	0.00	0.02	0.00	14.12	2.00	0.00	0.00	0.02	0.00
14.14	2.00	0.00	0.00	0.02	0.00	14.16	2.00	0.00	0.00	0.02	0.00
14.18	2.00	0.00	0.00	0.02	0.00	14.20	2.00	0.00	0.00	0.02	0.00
14.22	2.00	0.00	0.00	0.02	0.00	14.24	2.00	0.00	0.00	0.02	0.00
14.26	2.00	0.00	0.00	0.02	0.00	14.28	2.00	0.00	0.00	0.02	0.00
14.30	2.00	0.00	0.00	0.02	0.00	14.32	2.00	0.00	0.00	0.02	0.00
14.34	2.00	0.00	0.00	0.02	0.00	14.36	2.00	0.00	0.00	0.02	0.00
14.38	2.00	0.00	0.00	0.02	0.00	14.40	2.00	0.00	0.00	0.02	0.00
14.42	2.00	0.00	0.00	0.02	0.00	14.44	2.00	0.00	0.00	0.02	0.00
14.46	2.00	0.00	0.00	0.02	0.00	14.48	2.00	0.00	0.00	0.02	0.00
14.50	2.00	0.00	0.00	0.02	0.00	14.52	2.00	0.00	0.00	0.02	0.00
14.54	2.00	0.00	0.00	0.02	0.00	14.56	2.00	0.00	0.00	0.02	0.00
14.58	2.00	0.00	0.00	0.02	0.00	14.60	2.00	0.00	0.00	0.02	0.00
14.62	2.00	0.00	0.00	0.02	0.00	14.64	2.00	0.00	0.00	0.02	0.00
14.66	2.00	0.00	0.00	0.02	0.00	14.68	2.00	0.00	0.00	0.02	0.00
14.70	2.00	0.00	0.00	0.02	0.00	14.72	2.00	0.00	0.00	0.02	0.00
14.74	2.00	0.00	0.00	0.02	0.00	14.76	2.00	0.00	0.00	0.02	0.00
14.78	2.00	0.00	0.00	0.02	0.00	14.80	2.00	0.00	0.00	0.02	0.00
14.82	2.00	0.00	0.00	0.02	0.00	14.84	2.00	0.00	0.00	0.02	0.00
14.86	2.00	0.00	0.00	0.02	0.00	14.88	2.00	0.00	0.00	0.02	0.00
14.90	2.00	0.00	0.00	0.02	0.00	14.92	2.00	0.00	0.00	0.02	0.00
14.94	2.00	0.00	0.00	0.02	0.00	14.96	2.00	0.00	0.00	0.02	0.00
14.98	2.00	0.00	0.00	0.02	0.00	15.00	2.00	0.00	0.00	0.02	0.00
15.02	2.00	0.00	0.00	0.02	0.00	15.04	2.00	0.00	0.00	0.02	0.00
15.06	2.00	0.00	0.00	0.02	0.00	15.08	2.00	0.00	0.00	0.02	0.00
15.10	2.00	0.00	0.00	0.02	0.00	15.12	2.00	0.00	0.00	0.02	0.00
15.14	2.00	0.00	0.00	0.02	0.00	15.16	2.00	0.00	0.00	0.02	0.00
15.18	2.00	0.00	0.00	0.02	0.00	15.20	2.00	0.00	0.00	0.02	0.00
15.22	2.00	0.00	0.00	0.02	0.00	15.24	2.00	0.00	0.00	0.02	0.00
15.26	2.00	0.00	0.00	0.02	0.00	15.28	2.00	0.00	0.00	0.02	0.00
15.30	2.00	0.00	0.00	0.02	0.00	15.32	2.00	0.00	0.00	0.02	0.00
15.34	2.00	0.00	0.00	0.02	0.00	15.36	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.38	2.00	0.00	0.00	0.02	0.00	15.40	2.00	0.00	0.00	0.02	0.00
15.42	2.00	0.00	0.00	0.02	0.00	15.44	2.00	0.00	0.00	0.02	0.00
15.46	2.00	0.00	0.00	0.02	0.00	15.48	2.00	0.00	0.00	0.02	0.00
15.50	2.00	0.00	0.00	0.02	0.00	15.52	2.00	0.00	0.00	0.02	0.00
15.54	2.00	0.00	0.00	0.02	0.00	15.56	2.00	0.00	0.00	0.02	0.00
15.58	2.00	0.00	0.00	0.02	0.00	15.60	2.00	0.00	0.00	0.02	0.00
15.62	2.00	0.00	0.00	0.02	0.00	15.64	2.00	0.00	0.00	0.02	0.00
15.66	2.00	0.00	0.00	0.02	0.00	15.68	2.00	0.00	0.00	0.02	0.00
15.70	2.00	0.00	0.00	0.02	0.00	15.72	2.00	0.00	0.00	0.02	0.00
15.74	2.00	0.00	0.00	0.02	0.00	15.76	2.00	0.00	0.00	0.02	0.00
15.78	2.00	0.00	0.00	0.02	0.00	15.80	2.00	0.00	0.00	0.02	0.00
15.82	2.00	0.00	0.00	0.02	0.00	15.84	2.00	0.00	0.00	0.02	0.00
15.86	2.00	0.00	0.00	0.02	0.00	15.88	2.00	0.00	0.00	0.02	0.00
15.90	2.00	0.00	0.00	0.02	0.00	15.92	2.00	0.00	0.00	0.02	0.00
15.94	2.00	0.00	0.00	0.02	0.00	15.96	2.00	0.00	0.00	0.02	0.00
15.98	2.00	0.00	0.00	0.02	0.00	16.00	2.00	0.00	0.00	0.02	0.00
16.02	2.00	0.00	0.00	0.02	0.00	16.04	2.00	0.00	0.00	0.02	0.00
16.06	2.00	0.00	0.00	0.02	0.00	16.08	2.00	0.00	0.00	0.02	0.00
16.10	2.00	0.00	0.00	0.02	0.00	16.12	2.00	0.00	0.00	0.02	0.00
16.14	2.00	0.00	0.00	0.02	0.00	16.16	2.00	0.00	0.00	0.02	0.00
16.18	2.00	0.00	0.00	0.02	0.00	16.20	2.00	0.00	0.00	0.02	0.00
16.22	2.00	0.00	0.00	0.02	0.00	16.24	2.00	0.00	0.00	0.02	0.00
16.26	2.00	0.00	0.00	0.02	0.00	16.28	2.00	0.00	0.00	0.02	0.00
16.30	2.00	0.00	0.00	0.02	0.00	16.32	2.00	0.00	0.00	0.02	0.00
16.34	2.00	0.00	0.00	0.02	0.00	16.36	2.00	0.00	0.00	0.02	0.00
16.38	2.00	0.00	0.00	0.02	0.00	16.40	2.00	0.00	0.00	0.02	0.00
16.42	2.00	0.00	0.00	0.02	0.00	16.44	2.00	0.00	0.00	0.02	0.00
16.46	2.00	0.00	0.00	0.02	0.00	16.48	2.00	0.00	0.00	0.02	0.00
16.50	2.00	0.00	0.00	0.02	0.00	16.52	2.00	0.00	0.00	0.02	0.00
16.54	2.00	0.00	0.00	0.02	0.00	16.56	2.00	0.00	0.00	0.02	0.00
16.58	2.00	0.00	0.00	0.02	0.00	16.60	2.00	0.00	0.00	0.02	0.00
16.62	2.00	0.00	0.00	0.02	0.00	16.64	2.00	0.00	0.00	0.02	0.00
16.66	2.00	0.00	0.00	0.02	0.00	16.68	2.00	0.00	0.00	0.02	0.00
16.70	2.00	0.00	0.00	0.02	0.00	16.72	2.00	0.00	0.00	0.02	0.00
16.74	2.00	0.00	0.00	0.02	0.00	16.76	2.00	0.00	0.00	0.02	0.00
16.78	2.00	0.00	0.00	0.02	0.00	16.80	2.00	0.00	0.00	0.02	0.00
16.82	2.00	0.00	0.00	0.02	0.00	16.84	2.00	0.00	0.00	0.02	0.00
16.86	2.00	0.00	0.00	0.02	0.00	16.88	2.00	0.00	0.00	0.02	0.00
16.90	2.00	0.00	0.00	0.02	0.00	16.92	2.00	0.00	0.00	0.02	0.00
16.94	2.00	0.00	0.00	0.02	0.00	16.96	2.00	0.00	0.00	0.02	0.00
16.98	2.00	0.00	0.00	0.02	0.00	17.00	2.00	0.00	0.00	0.02	0.00
17.02	2.00	0.00	0.00	0.02	0.00	17.04	2.00	0.00	0.00	0.02	0.00
17.06	2.00	0.00	0.00	0.02	0.00	17.08	2.00	0.00	0.00	0.02	0.00
17.10	2.00	0.00	0.00	0.02	0.00	17.12	2.00	0.00	0.00	0.02	0.00
17.14	2.00	0.00	0.00	0.02	0.00	17.16	2.00	0.00	0.00	0.02	0.00
17.18	2.00	0.00	0.00	0.02	0.00	17.20	2.00	0.00	0.00	0.02	0.00
17.22	2.00	0.00	0.00	0.02	0.00	17.24	2.00	0.00	0.00	0.02	0.00
17.26	2.00	0.00	0.00	0.02	0.00	17.28	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
17.30	2.00	0.00	0.00	0.02	0.00	17.32	2.00	0.00	0.00	0.02	0.00
17.34	2.00	0.00	0.00	0.02	0.00	17.36	2.00	0.00	0.00	0.02	0.00
17.38	2.00	0.00	0.00	0.02	0.00	17.40	2.00	0.00	0.00	0.02	0.00
17.42	2.00	0.00	0.00	0.02	0.00	17.44	2.00	0.00	0.00	0.02	0.00
17.46	2.00	0.00	0.00	0.02	0.00	17.48	2.00	0.00	0.00	0.02	0.00
17.50	2.00	0.00	0.00	0.02	0.00	17.52	2.00	0.00	0.00	0.02	0.00
17.54	2.00	0.00	0.00	0.02	0.00	17.56	2.00	0.00	0.00	0.02	0.00
17.58	2.00	0.00	0.00	0.02	0.00	17.60	2.00	0.00	0.00	0.02	0.00
17.62	2.00	0.00	0.00	0.02	0.00	17.64	2.00	0.00	0.00	0.02	0.00
17.66	2.00	0.00	0.00	0.02	0.00	17.68	2.00	0.00	0.00	0.02	0.00
17.70	2.00	0.00	0.00	0.02	0.00	17.72	2.00	0.00	0.00	0.02	0.00
17.74	2.00	0.00	0.00	0.02	0.00	17.76	2.00	0.00	0.00	0.02	0.00
17.78	2.00	0.00	0.00	0.02	0.00	17.80	2.00	0.00	0.00	0.02	0.00
17.82	2.00	0.00	0.00	0.02	0.00	17.84	2.00	0.00	0.00	0.02	0.00
17.86	2.00	0.00	0.00	0.02	0.00	17.88	2.00	0.00	0.00	0.02	0.00
17.90	2.00	0.00	0.00	0.02	0.00	17.92	2.00	0.00	0.00	0.02	0.00
17.94	2.00	0.00	0.00	0.02	0.00	17.96	2.00	0.00	0.00	0.02	0.00
17.98	2.00	0.00	0.00	0.02	0.00	18.00	2.00	0.00	0.00	0.02	0.00
18.02	2.00	0.00	0.00	0.02	0.00	18.04	2.00	0.00	0.00	0.02	0.00
18.06	2.00	0.00	0.00	0.02	0.00	18.08	2.00	0.00	0.00	0.02	0.00
18.10	2.00	0.00	0.00	0.02	0.00	18.12	2.00	0.00	0.00	0.02	0.00
18.14	2.00	0.00	0.00	0.02	0.00	18.16	2.00	0.00	0.00	0.02	0.00
18.18	2.00	0.00	0.00	0.02	0.00	18.20	2.00	0.00	0.00	0.02	0.00
18.22	2.00	0.00	0.00	0.02	0.00	18.24	2.00	0.00	0.00	0.02	0.00
18.26	2.00	0.00	0.00	0.02	0.00	18.28	2.00	0.00	0.00	0.02	0.00
18.30	2.00	0.00	0.00	0.02	0.00	18.32	2.00	0.00	0.00	0.02	0.00
18.34	2.00	0.00	0.00	0.02	0.00	18.36	2.00	0.00	0.00	0.02	0.00
18.38	2.00	0.00	0.00	0.02	0.00	18.40	2.00	0.00	0.00	0.02	0.00
18.42	2.00	0.00	0.00	0.02	0.00	18.44	2.00	0.00	0.00	0.02	0.00
18.46	2.00	0.00	0.00	0.02	0.00	18.48	2.00	0.00	0.00	0.02	0.00
18.50	2.00	0.00	0.00	0.02	0.00	18.52	2.00	0.00	0.00	0.02	0.00
18.54	2.00	0.00	0.00	0.02	0.00	18.56	2.00	0.00	0.00	0.02	0.00
18.58	2.00	0.00	0.00	0.02	0.00	18.60	2.00	0.00	0.00	0.02	0.00
18.62	2.00	0.00	0.00	0.02	0.00	18.64	2.00	0.00	0.00	0.02	0.00
18.66	2.00	0.00	0.00	0.02	0.00	18.68	2.00	0.00	0.00	0.02	0.00
18.70	2.00	0.00	0.00	0.02	0.00	18.72	2.00	0.00	0.00	0.02	0.00
18.74	2.00	0.00	0.00	0.02	0.00	18.76	2.00	0.00	0.00	0.02	0.00
18.78	2.00	0.00	0.00	0.02	0.00	18.80	2.00	0.00	0.00	0.02	0.00
18.82	2.00	0.00	0.00	0.02	0.00	18.84	2.00	0.00	0.00	0.02	0.00
18.86	2.00	0.00	0.00	0.02	0.00	18.88	2.00	0.00	0.00	0.02	0.00
18.90	2.00	0.00	0.00	0.02	0.00	18.92	2.00	0.00	0.00	0.02	0.00
18.94	2.00	0.00	0.00	0.02	0.00	18.96	2.00	0.00	0.00	0.02	0.00
18.98	2.00	0.00	0.00	0.02	0.00	19.00	2.00	0.00	0.00	0.02	0.00
19.02	2.00	0.00	0.00	0.02	0.00	19.04	2.00	0.00	0.00	0.02	0.00
19.06	2.00	0.00	0.00	0.02	0.00	19.08	2.00	0.00	0.00	0.02	0.00
19.10	2.00	0.00	0.00	0.02	0.00	19.12	2.00	0.00	0.00	0.02	0.00
19.14	2.00	0.00	0.00	0.02	0.00	19.16	2.00	0.00	0.00	0.02	0.00
19.18	2.00	0.00	0.00	0.02	0.00	19.20	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.22	2.00	0.00	0.00	0.02	0.00	19.24	2.00	0.00	0.00	0.02	0.00
19.26	2.00	0.00	0.00	0.02	0.00	19.28	2.00	0.00	0.00	0.02	0.00
19.30	2.00	0.00	0.00	0.02	0.00	19.32	2.00	0.00	0.00	0.02	0.00
19.34	2.00	0.00	0.00	0.02	0.00	19.36	2.00	0.00	0.00	0.02	0.00
19.38	2.00	0.00	0.00	0.02	0.00	19.40	2.00	0.00	0.00	0.02	0.00
19.42	2.00	0.00	0.00	0.02	0.00	19.44	2.00	0.00	0.00	0.02	0.00
19.46	2.00	0.00	0.00	0.02	0.00	19.48	2.00	0.00	0.00	0.02	0.00
19.50	2.00	0.00	0.00	0.02	0.00	19.52	2.00	0.00	0.00	0.02	0.00
19.54	2.00	0.00	0.00	0.02	0.00	19.56	2.00	0.00	0.00	0.02	0.00
19.58	2.00	0.00	0.00	0.02	0.00	19.60	2.00	0.00	0.00	0.02	0.00
19.62	2.00	0.00	0.00	0.02	0.00	19.64	2.00	0.00	0.00	0.02	0.00
19.66	2.00	0.00	0.00	0.02	0.00	19.68	2.00	0.00	0.00	0.02	0.00
19.70	2.00	0.00	0.00	0.02	0.00	19.72	2.00	0.00	0.00	0.02	0.00
19.74	2.00	0.00	0.00	0.02	0.00	19.76	2.00	0.00	0.00	0.02	0.00
19.78	2.00	0.00	0.00	0.02	0.00	19.80	2.00	0.00	0.00	0.02	0.00
19.82	2.00	0.00	0.00	0.02	0.00	19.84	2.00	0.00	0.00	0.02	0.00
19.86	2.00	0.00	0.00	0.02	0.00	19.88	2.00	0.00	0.00	0.02	0.00
19.90	2.00	0.00	0.00	0.02	0.00	19.92	2.00	0.00	0.00	0.02	0.00
19.94	2.00	0.00	0.00	0.02	0.00	19.96	2.00	0.00	0.00	0.02	0.00
19.98	2.00	0.00	0.00	0.02	0.00	20.00	2.00	0.00	0.00	0.02	0.00

Overall liquefaction potential: 0.00

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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Merarhias 56
http://www.geologismiki.gr

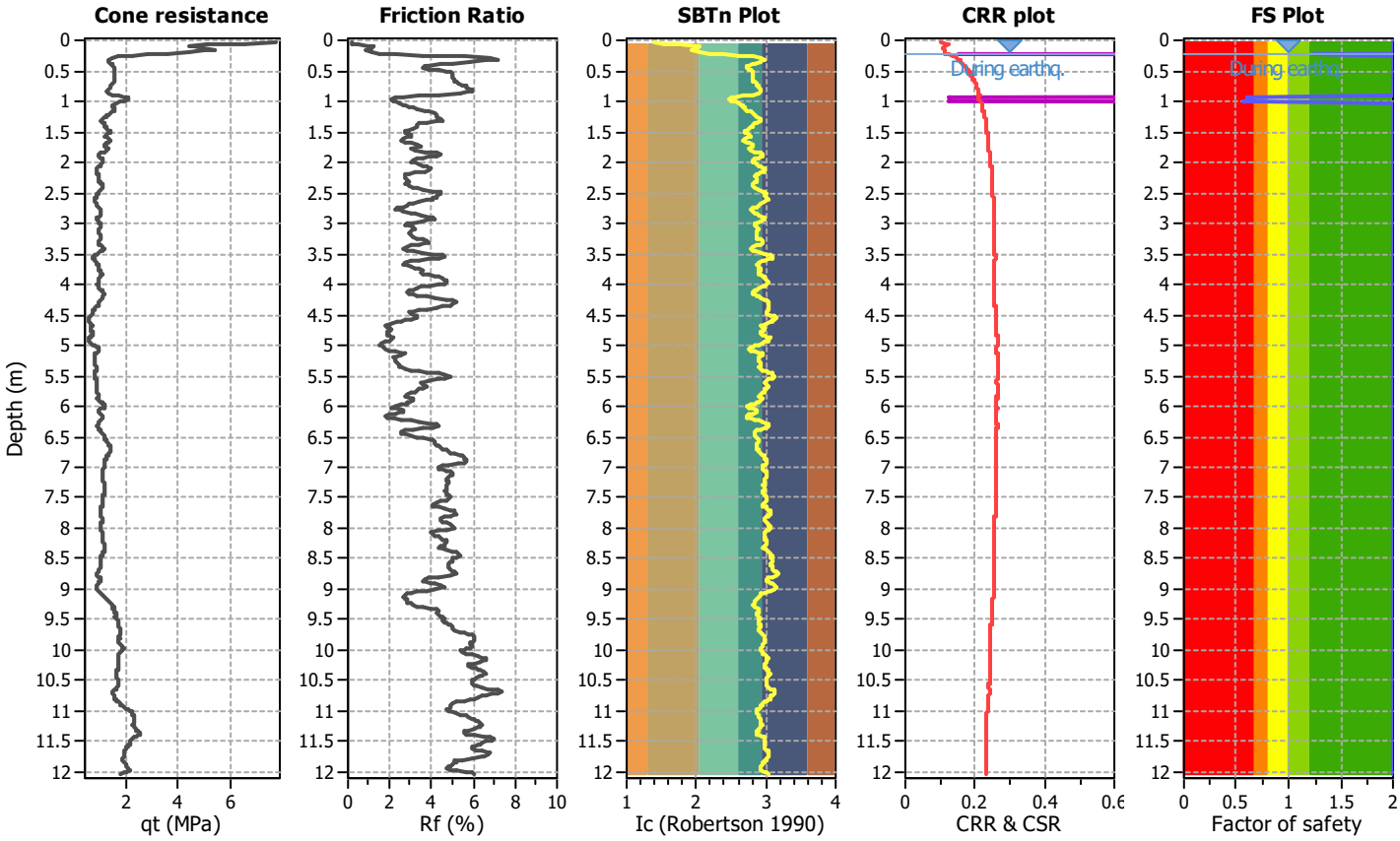
LIQUEFACTION ANALYSIS REPORT

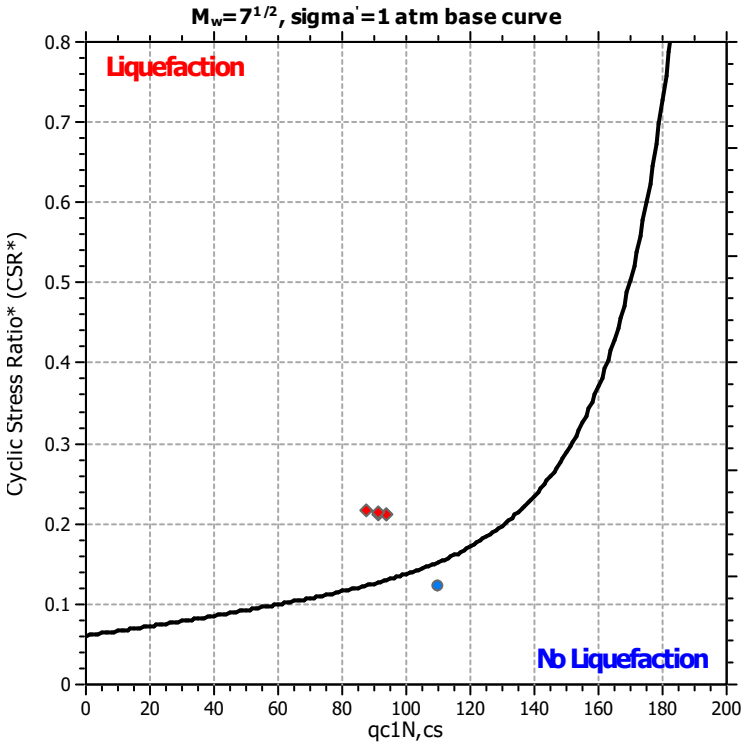
Project title : **Location :**

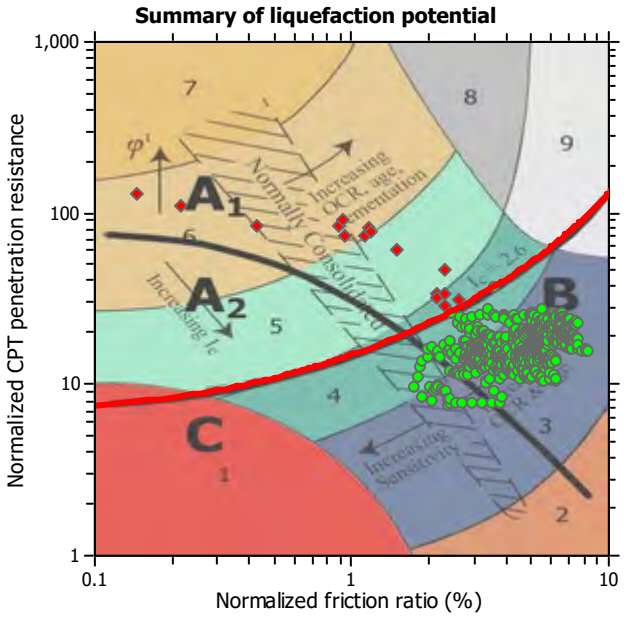
CPT file : SP024

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

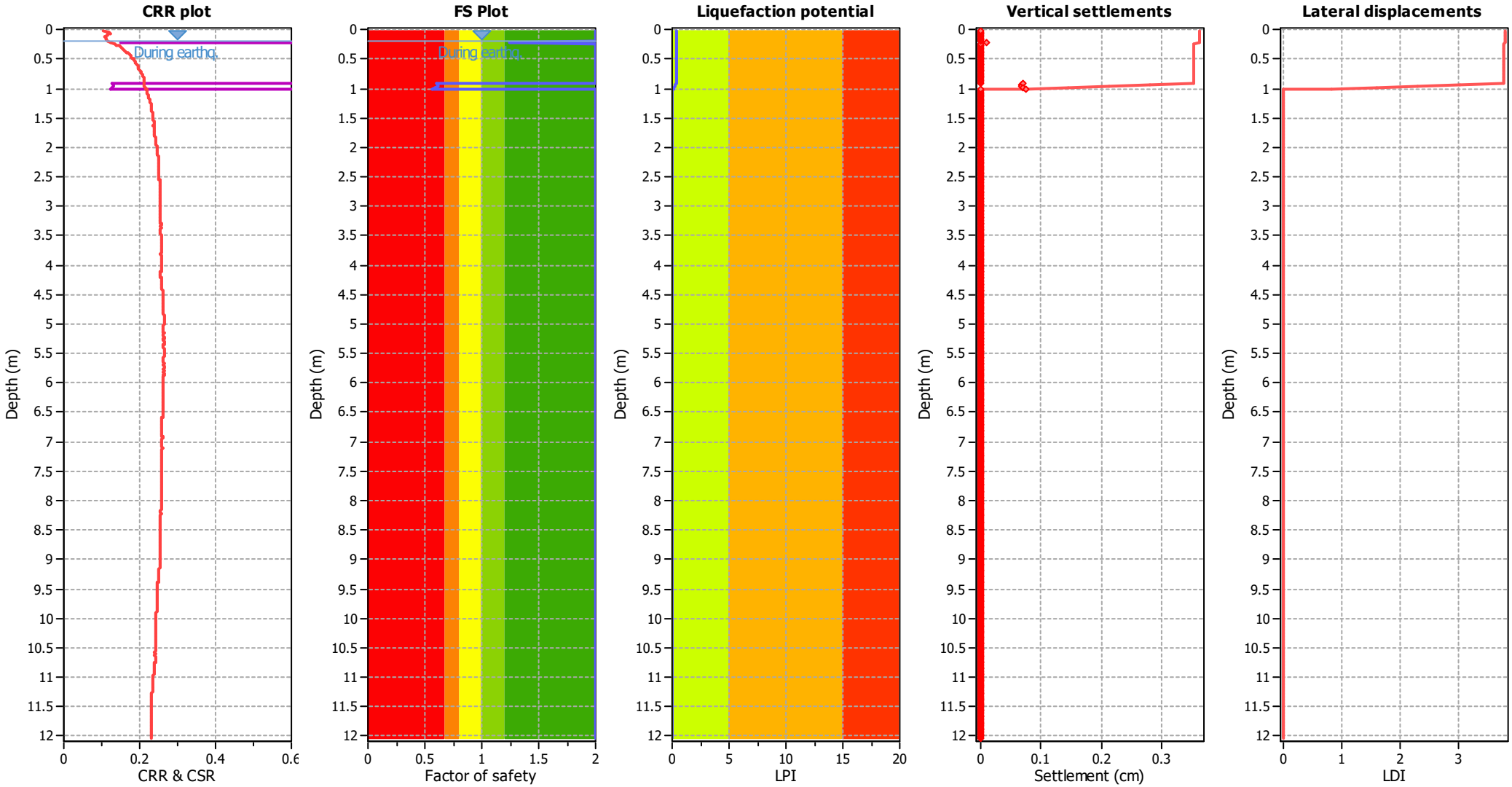






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.02	2.00	0.00	0.00	0.02	0.00	0.04	2.00	0.00	0.00	0.02	0.00
0.06	2.00	0.00	0.00	0.02	0.00	0.08	2.00	0.00	0.00	0.02	0.00
0.10	2.00	0.00	0.00	0.02	0.00	0.12	2.00	0.00	0.00	0.02	0.00
0.14	2.00	0.00	0.00	0.02	0.00	0.16	2.00	0.00	0.00	0.02	0.00
0.18	2.00	0.00	0.00	0.02	0.00	0.20	2.00	0.00	0.00	0.02	0.00
0.22	1.24	0.00	0.00	0.02	0.00	0.24	2.00	0.00	0.00	0.02	0.00
0.26	2.00	0.00	0.00	0.02	0.00	0.28	2.00	0.00	0.00	0.02	0.00
0.30	2.00	0.00	0.00	0.02	0.00	0.32	2.00	0.00	0.00	0.02	0.00
0.34	2.00	0.00	0.00	0.02	0.00	0.36	2.00	0.00	0.00	0.02	0.00
0.38	2.00	0.00	0.00	0.02	0.00	0.40	2.00	0.00	0.00	0.02	0.00
0.42	2.00	0.00	0.00	0.02	0.00	0.44	2.00	0.00	0.00	0.02	0.00
0.46	2.00	0.00	0.00	0.02	0.00	0.48	2.00	0.00	0.00	0.02	0.00
0.50	2.00	0.00	0.00	0.02	0.00	0.52	2.00	0.00	0.00	0.02	0.00
0.54	2.00	0.00	0.00	0.02	0.00	0.56	2.00	0.00	0.00	0.02	0.00
0.58	2.00	0.00	0.00	0.02	0.00	0.60	2.00	0.00	0.00	0.02	0.00
0.62	2.00	0.00	0.00	0.02	0.00	0.64	2.00	0.00	0.00	0.02	0.00
0.66	2.00	0.00	0.00	0.02	0.00	0.68	2.00	0.00	0.00	0.02	0.00
0.70	2.00	0.00	0.00	0.02	0.00	0.72	2.00	0.00	0.00	0.02	0.00
0.74	2.00	0.00	0.00	0.02	0.00	0.76	2.00	0.00	0.00	0.02	0.00
0.78	2.00	0.00	0.00	0.02	0.00	0.80	2.00	0.00	0.00	0.02	0.00
0.82	2.00	0.00	0.00	0.02	0.00	0.84	2.00	0.00	0.00	0.02	0.00
0.86	2.00	0.00	0.00	0.02	0.00	0.88	2.00	0.00	0.00	0.02	0.00
0.90	2.00	0.00	0.00	0.02	0.00	0.92	0.60	0.40	0.64	0.02	0.08
0.94	0.62	0.38	0.67	0.02	0.07	0.96	0.61	0.39	0.66	0.02	0.07
0.98	0.59	0.41	0.62	0.02	0.08	1.00	0.57	0.43	0.57	0.02	0.08
1.02	2.00	0.00	0.00	0.02	0.00	1.04	2.00	0.00	0.00	0.02	0.00
1.06	2.00	0.00	0.00	0.02	0.00	1.08	2.00	0.00	0.00	0.02	0.00
1.10	2.00	0.00	0.00	0.02	0.00	1.12	2.00	0.00	0.00	0.02	0.00
1.14	2.00	0.00	0.00	0.02	0.00	1.16	2.00	0.00	0.00	0.02	0.00
1.18	2.00	0.00	0.00	0.02	0.00	1.20	2.00	0.00	0.00	0.02	0.00
1.22	2.00	0.00	0.00	0.02	0.00	1.24	2.00	0.00	0.00	0.02	0.00
1.26	2.00	0.00	0.00	0.02	0.00	1.28	2.00	0.00	0.00	0.02	0.00
1.30	2.00	0.00	0.00	0.02	0.00	1.32	2.00	0.00	0.00	0.02	0.00
1.34	2.00	0.00	0.00	0.02	0.00	1.36	2.00	0.00	0.00	0.02	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.42	2.00	0.00	0.00	0.02	0.00	1.44	2.00	0.00	0.00	0.02	0.00
1.46	2.00	0.00	0.00	0.02	0.00	1.48	2.00	0.00	0.00	0.02	0.00
1.50	2.00	0.00	0.00	0.02	0.00	1.52	2.00	0.00	0.00	0.02	0.00
1.54	2.00	0.00	0.00	0.02	0.00	1.56	2.00	0.00	0.00	0.02	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.02	0.00
1.62	2.00	0.00	0.00	0.02	0.00	1.64	2.00	0.00	0.00	0.02	0.00
1.66	2.00	0.00	0.00	0.02	0.00	1.68	2.00	0.00	0.00	0.02	0.00
1.70	2.00	0.00	0.00	0.02	0.00	1.72	2.00	0.00	0.00	0.02	0.00
1.74	2.00	0.00	0.00	0.02	0.00	1.76	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.02	0.00
1.82	2.00	0.00	0.00	0.02	0.00	1.84	2.00	0.00	0.00	0.02	0.00
1.86	2.00	0.00	0.00	0.02	0.00	1.88	2.00	0.00	0.00	0.02	0.00
1.90	2.00	0.00	0.00	0.02	0.00	1.92	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.94	2.00	0.00	0.00	0.02	0.00	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.02	2.00	0.00	0.00	0.02	0.00	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	2.00	0.00	0.00	0.02	0.00
2.10	2.00	0.00	0.00	0.02	0.00	2.12	2.00	0.00	0.00	0.02	0.00
2.14	2.00	0.00	0.00	0.02	0.00	2.16	2.00	0.00	0.00	0.02	0.00
2.18	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00
2.42	2.00	0.00	0.00	0.02	0.00	2.44	2.00	0.00	0.00	0.02	0.00
2.46	2.00	0.00	0.00	0.02	0.00	2.48	2.00	0.00	0.00	0.02	0.00
2.50	2.00	0.00	0.00	0.02	0.00	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	2.00	0.00	0.00	0.02	0.00	2.64	2.00	0.00	0.00	0.02	0.00
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	2.00	0.00	0.00	0.02	0.00
2.74	2.00	0.00	0.00	0.02	0.00	2.76	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00
2.82	2.00	0.00	0.00	0.02	0.00	2.84	2.00	0.00	0.00	0.02	0.00
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	2.00	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	2.00	0.00	0.00	0.02	0.00	3.08	2.00	0.00	0.00	0.02	0.00
3.10	2.00	0.00	0.00	0.02	0.00	3.12	2.00	0.00	0.00	0.02	0.00
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.42	2.00	0.00	0.00	0.02	0.00	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.02	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.62	2.00	0.00	0.00	0.02	0.00	3.64	2.00	0.00	0.00	0.02	0.00
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	2.00	0.00	0.00	0.02	0.00
3.74	2.00	0.00	0.00	0.02	0.00	3.76	2.00	0.00	0.00	0.02	0.00
3.78	2.00	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.82	2.00	0.00	0.00	0.02	0.00	3.84	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.86	2.00	0.00	0.00	0.02	0.00	3.88	2.00	0.00	0.00	0.02	0.00
3.90	2.00	0.00	0.00	0.02	0.00	3.92	2.00	0.00	0.00	0.02	0.00
3.94	2.00	0.00	0.00	0.02	0.00	3.96	2.00	0.00	0.00	0.02	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.02	2.00	0.00	0.00	0.02	0.00	4.04	2.00	0.00	0.00	0.02	0.00
4.06	2.00	0.00	0.00	0.02	0.00	4.08	2.00	0.00	0.00	0.02	0.00
4.10	2.00	0.00	0.00	0.02	0.00	4.12	2.00	0.00	0.00	0.02	0.00
4.14	2.00	0.00	0.00	0.02	0.00	4.16	2.00	0.00	0.00	0.02	0.00
4.18	2.00	0.00	0.00	0.02	0.00	4.20	2.00	0.00	0.00	0.02	0.00
4.22	2.00	0.00	0.00	0.02	0.00	4.24	2.00	0.00	0.00	0.02	0.00
4.26	2.00	0.00	0.00	0.02	0.00	4.28	2.00	0.00	0.00	0.02	0.00
4.30	2.00	0.00	0.00	0.02	0.00	4.32	2.00	0.00	0.00	0.02	0.00
4.34	2.00	0.00	0.00	0.02	0.00	4.36	2.00	0.00	0.00	0.02	0.00
4.38	2.00	0.00	0.00	0.02	0.00	4.40	2.00	0.00	0.00	0.02	0.00
4.42	2.00	0.00	0.00	0.02	0.00	4.44	2.00	0.00	0.00	0.02	0.00
4.46	2.00	0.00	0.00	0.02	0.00	4.48	2.00	0.00	0.00	0.02	0.00
4.50	2.00	0.00	0.00	0.02	0.00	4.52	2.00	0.00	0.00	0.02	0.00
4.54	2.00	0.00	0.00	0.02	0.00	4.56	2.00	0.00	0.00	0.02	0.00
4.58	2.00	0.00	0.00	0.02	0.00	4.60	2.00	0.00	0.00	0.02	0.00
4.62	2.00	0.00	0.00	0.02	0.00	4.64	2.00	0.00	0.00	0.02	0.00
4.66	2.00	0.00	0.00	0.02	0.00	4.68	2.00	0.00	0.00	0.02	0.00
4.70	2.00	0.00	0.00	0.02	0.00	4.72	2.00	0.00	0.00	0.02	0.00
4.74	2.00	0.00	0.00	0.02	0.00	4.76	2.00	0.00	0.00	0.02	0.00
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	2.00	0.00	0.00	0.02	0.00
4.86	2.00	0.00	0.00	0.02	0.00	4.88	2.00	0.00	0.00	0.02	0.00
4.90	2.00	0.00	0.00	0.02	0.00	4.92	2.00	0.00	0.00	0.02	0.00
4.94	2.00	0.00	0.00	0.02	0.00	4.96	2.00	0.00	0.00	0.02	0.00
4.98	2.00	0.00	0.00	0.02	0.00	5.00	2.00	0.00	0.00	0.02	0.00
5.02	2.00	0.00	0.00	0.02	0.00	5.04	2.00	0.00	0.00	0.02	0.00
5.06	2.00	0.00	0.00	0.02	0.00	5.08	2.00	0.00	0.00	0.02	0.00
5.10	2.00	0.00	0.00	0.02	0.00	5.12	2.00	0.00	0.00	0.02	0.00
5.14	2.00	0.00	0.00	0.02	0.00	5.16	2.00	0.00	0.00	0.02	0.00
5.18	2.00	0.00	0.00	0.02	0.00	5.20	2.00	0.00	0.00	0.02	0.00
5.22	2.00	0.00	0.00	0.02	0.00	5.24	2.00	0.00	0.00	0.02	0.00
5.26	2.00	0.00	0.00	0.02	0.00	5.28	2.00	0.00	0.00	0.02	0.00
5.30	2.00	0.00	0.00	0.02	0.00	5.32	2.00	0.00	0.00	0.02	0.00
5.34	2.00	0.00	0.00	0.02	0.00	5.36	2.00	0.00	0.00	0.02	0.00
5.38	2.00	0.00	0.00	0.02	0.00	5.40	2.00	0.00	0.00	0.02	0.00
5.42	2.00	0.00	0.00	0.02	0.00	5.44	2.00	0.00	0.00	0.02	0.00
5.46	2.00	0.00	0.00	0.02	0.00	5.48	2.00	0.00	0.00	0.02	0.00
5.50	2.00	0.00	0.00	0.02	0.00	5.52	2.00	0.00	0.00	0.02	0.00
5.54	2.00	0.00	0.00	0.02	0.00	5.56	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.02	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.62	2.00	0.00	0.00	0.02	0.00	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	2.00	0.00	0.00	0.02	0.00
5.86	2.00	0.00	0.00	0.02	0.00	5.88	2.00	0.00	0.00	0.02	0.00
5.90	2.00	0.00	0.00	0.02	0.00	5.92	2.00	0.00	0.00	0.02	0.00
5.94	2.00	0.00	0.00	0.02	0.00	5.96	2.00	0.00	0.00	0.02	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.02	0.00
6.02	2.00	0.00	0.00	0.02	0.00	6.04	2.00	0.00	0.00	0.02	0.00
6.06	2.00	0.00	0.00	0.02	0.00	6.08	2.00	0.00	0.00	0.02	0.00
6.10	2.00	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00	9.44	2.00	0.00	0.00	0.02	0.00
9.46	2.00	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.62	2.00	0.00	0.00	0.02	0.00	9.64	2.00	0.00	0.00	0.02	0.00
9.66	2.00	0.00	0.00	0.02	0.00	9.68	2.00	0.00	0.00	0.02	0.00
9.70	2.00	0.00	0.00	0.02	0.00	9.72	2.00	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.22	2.00	0.00	0.00	0.02	0.00	10.24	2.00	0.00	0.00	0.02	0.00
10.26	2.00	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	2.00	0.00	0.00	0.02	0.00	10.32	2.00	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00
10.50	2.00	0.00	0.00	0.02	0.00	10.52	2.00	0.00	0.00	0.02	0.00
10.54	2.00	0.00	0.00	0.02	0.00	10.56	2.00	0.00	0.00	0.02	0.00
10.58	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.02	0.00
10.62	2.00	0.00	0.00	0.02	0.00	10.64	2.00	0.00	0.00	0.02	0.00
10.66	2.00	0.00	0.00	0.02	0.00	10.68	2.00	0.00	0.00	0.02	0.00
10.70	2.00	0.00	0.00	0.02	0.00	10.72	2.00	0.00	0.00	0.02	0.00
10.74	2.00	0.00	0.00	0.02	0.00	10.76	2.00	0.00	0.00	0.02	0.00
10.78	2.00	0.00	0.00	0.02	0.00	10.80	2.00	0.00	0.00	0.02	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.84	2.00	0.00	0.00	0.02	0.00
10.86	2.00	0.00	0.00	0.02	0.00	10.88	2.00	0.00	0.00	0.02	0.00
10.90	2.00	0.00	0.00	0.02	0.00	10.92	2.00	0.00	0.00	0.02	0.00
10.94	2.00	0.00	0.00	0.02	0.00	10.96	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.02	0.00	11.00	2.00	0.00	0.00	0.02	0.00
11.02	2.00	0.00	0.00	0.02	0.00	11.04	2.00	0.00	0.00	0.02	0.00
11.06	2.00	0.00	0.00	0.02	0.00	11.08	2.00	0.00	0.00	0.02	0.00
11.10	2.00	0.00	0.00	0.02	0.00	11.12	2.00	0.00	0.00	0.02	0.00
11.14	2.00	0.00	0.00	0.02	0.00	11.16	2.00	0.00	0.00	0.02	0.00
11.18	2.00	0.00	0.00	0.02	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.22	2.00	0.00	0.00	0.02	0.00	11.24	2.00	0.00	0.00	0.02	0.00
11.26	2.00	0.00	0.00	0.02	0.00	11.28	2.00	0.00	0.00	0.02	0.00
11.30	2.00	0.00	0.00	0.02	0.00	11.32	2.00	0.00	0.00	0.02	0.00
11.34	2.00	0.00	0.00	0.02	0.00	11.36	2.00	0.00	0.00	0.02	0.00
11.38	2.00	0.00	0.00	0.02	0.00	11.40	2.00	0.00	0.00	0.02	0.00
11.42	2.00	0.00	0.00	0.02	0.00	11.44	2.00	0.00	0.00	0.02	0.00
11.46	2.00	0.00	0.00	0.02	0.00	11.48	2.00	0.00	0.00	0.02	0.00
11.50	2.00	0.00	0.00	0.02	0.00	11.52	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.54	2.00	0.00	0.00	0.02	0.00	11.56	2.00	0.00	0.00	0.02	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.02	0.00
11.62	2.00	0.00	0.00	0.02	0.00	11.64	2.00	0.00	0.00	0.02	0.00
11.66	2.00	0.00	0.00	0.02	0.00	11.68	2.00	0.00	0.00	0.02	0.00
11.70	2.00	0.00	0.00	0.02	0.00	11.72	2.00	0.00	0.00	0.02	0.00
11.74	2.00	0.00	0.00	0.02	0.00	11.76	2.00	0.00	0.00	0.02	0.00
11.78	2.00	0.00	0.00	0.02	0.00	11.80	2.00	0.00	0.00	0.02	0.00
11.82	2.00	0.00	0.00	0.02	0.00	11.84	2.00	0.00	0.00	0.02	0.00
11.86	2.00	0.00	0.00	0.02	0.00	11.88	2.00	0.00	0.00	0.02	0.00
11.90	2.00	0.00	0.00	0.02	0.00	11.92	2.00	0.00	0.00	0.02	0.00
11.94	2.00	0.00	0.00	0.02	0.00	11.96	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.02	0.00	12.00	2.00	0.00	0.00	0.02	0.00
12.02	2.00	0.00	0.00	0.02	0.00	12.04	2.00	0.00	0.00	0.02	0.00

Overall liquefaction potential: 0.38

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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Merarhias 56
http://www.geologismiki.gr

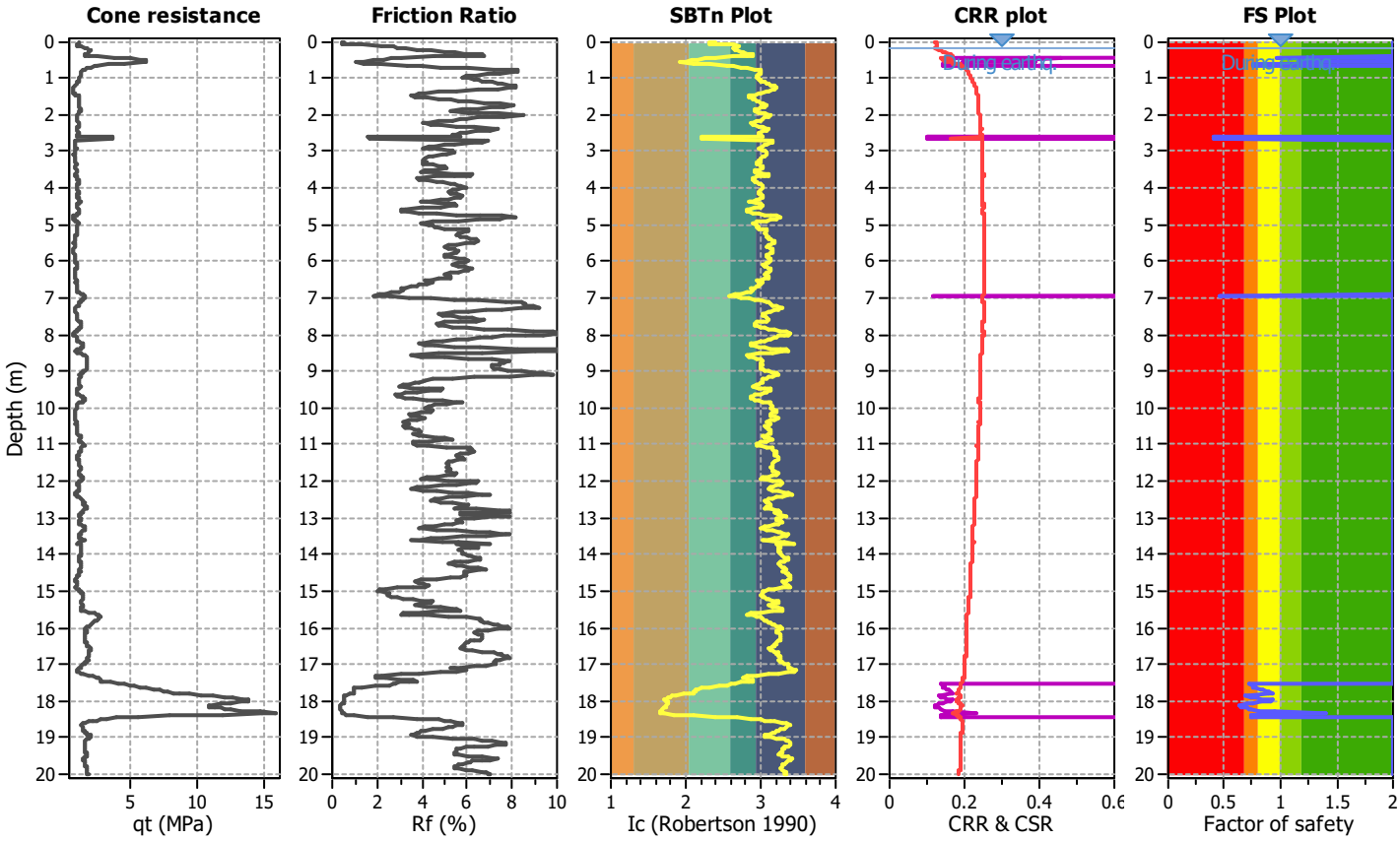
LIQUEFACTION ANALYSIS REPORT

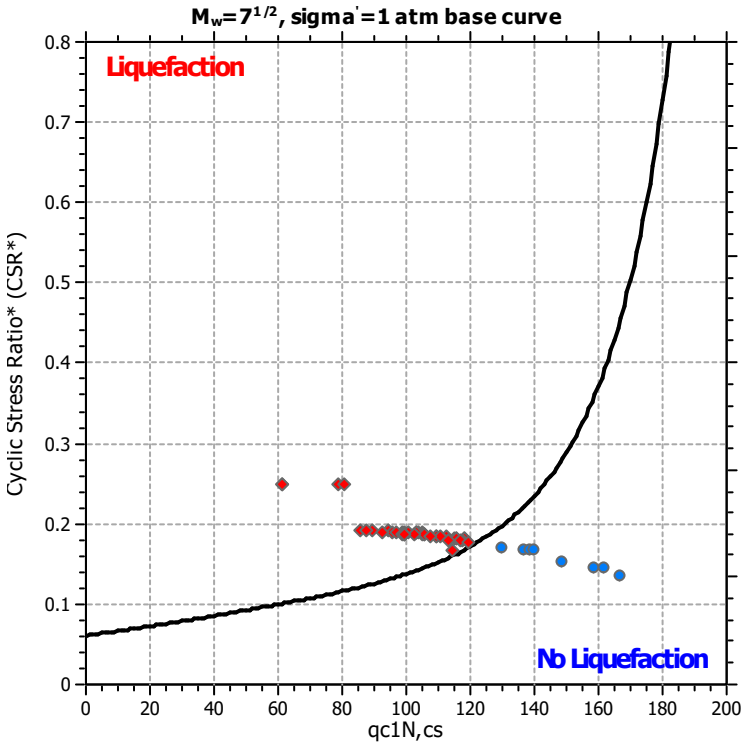
Project title : **Location :**

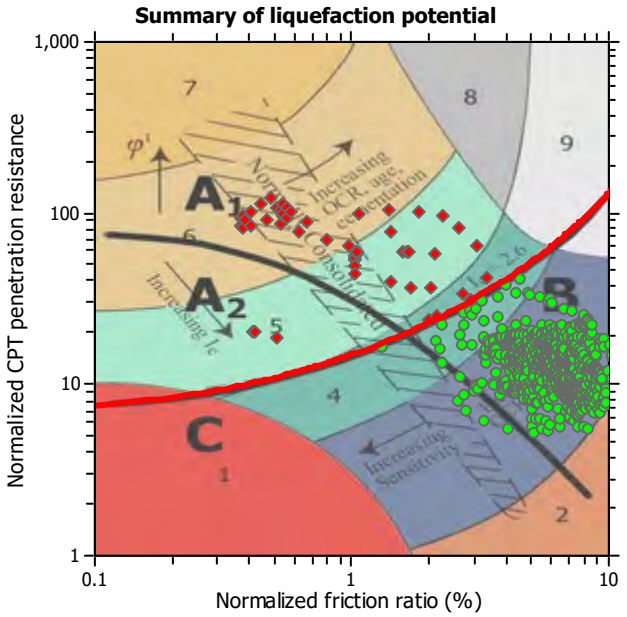
CPT file : SP099

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior	
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 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:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes	MSF method:	Method based

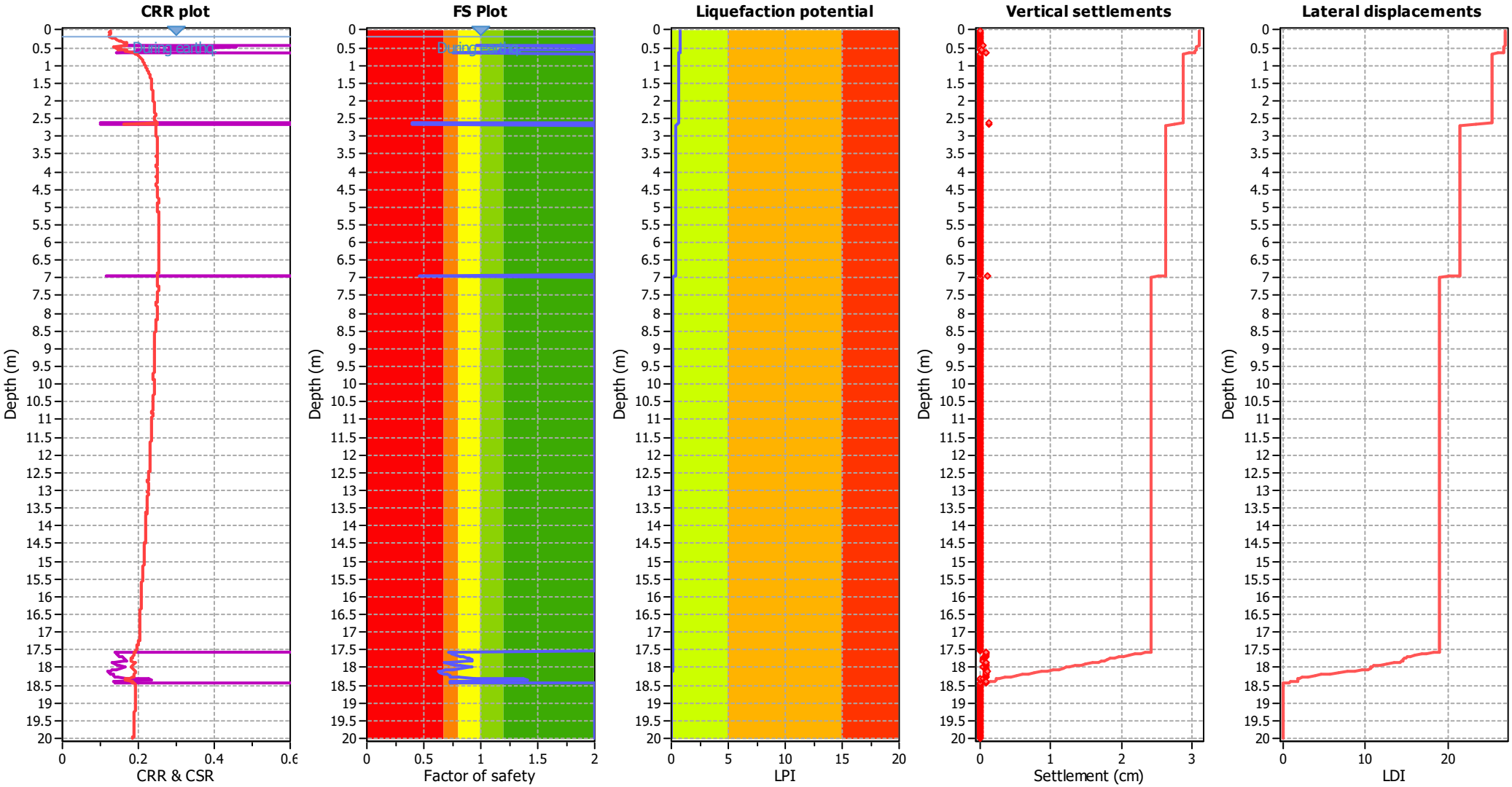






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.03	2.00	0.00	0.00	0.03	0.00	0.05	2.00	0.00	0.00	0.03	0.00
0.08	2.00	0.00	0.00	0.03	0.00	0.10	2.00	0.00	0.00	0.03	0.00
0.13	2.00	0.00	0.00	0.03	0.00	0.15	2.00	0.00	0.00	0.03	0.00
0.18	2.00	0.00	0.00	0.03	0.00	0.20	2.00	0.00	0.00	0.03	0.00
0.23	2.00	0.00	0.00	0.03	0.00	0.25	2.00	0.00	0.00	0.03	0.00
0.28	2.00	0.00	0.00	0.03	0.00	0.30	2.00	0.00	0.00	0.03	0.00
0.33	2.00	0.00	0.00	0.03	0.00	0.35	2.00	0.00	0.00	0.03	0.00
0.38	2.00	0.00	0.00	0.03	0.00	0.40	2.00	0.00	0.00	0.03	0.00
0.43	2.00	0.00	0.00	0.03	0.00	0.45	0.96	0.04	179.53	0.03	0.01
0.48	2.00	0.00	0.00	0.03	0.00	0.50	2.00	0.00	0.00	0.03	0.00
0.53	1.85	0.00	0.00	0.03	0.00	0.55	2.00	0.00	0.00	0.03	0.00
0.57	1.16	0.00	0.00	0.02	0.00	0.60	1.33	0.00	0.00	0.03	0.00
0.63	0.76	0.24	1.24	0.03	0.06	0.65	0.76	0.24	1.26	0.03	0.06
0.68	2.00	0.00	0.00	0.03	0.00	0.70	2.00	0.00	0.00	0.02	0.00
0.73	2.00	0.00	0.00	0.03	0.00	0.75	2.00	0.00	0.00	0.03	0.00
0.78	2.00	0.00	0.00	0.03	0.00	0.80	2.00	0.00	0.00	0.03	0.00
0.83	2.00	0.00	0.00	0.02	0.00	0.85	2.00	0.00	0.00	0.03	0.00
0.88	2.00	0.00	0.00	0.03	0.00	0.90	2.00	0.00	0.00	0.03	0.00
0.93	2.00	0.00	0.00	0.03	0.00	0.95	2.00	0.00	0.00	0.02	0.00
0.98	2.00	0.00	0.00	0.03	0.00	1.00	2.00	0.00	0.00	0.03	0.00
1.02	2.00	0.00	0.00	0.02	0.00	1.05	2.00	0.00	0.00	0.03	0.00
1.08	2.00	0.00	0.00	0.02	0.00	1.10	2.00	0.00	0.00	0.03	0.00
1.13	2.00	0.00	0.00	0.02	0.00	1.15	2.00	0.00	0.00	0.02	0.00
1.18	2.00	0.00	0.00	0.03	0.00	1.20	2.00	0.00	0.00	0.02	0.00
1.23	2.00	0.00	0.00	0.03	0.00	1.25	2.00	0.00	0.00	0.02	0.00
1.27	2.00	0.00	0.00	0.02	0.00	1.30	2.00	0.00	0.00	0.03	0.00
1.33	2.00	0.00	0.00	0.02	0.00	1.35	2.00	0.00	0.00	0.03	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.43	2.00	0.00	0.00	0.03	0.00	1.45	2.00	0.00	0.00	0.02	0.00
1.48	2.00	0.00	0.00	0.03	0.00	1.50	2.00	0.00	0.00	0.02	0.00
1.53	2.00	0.00	0.00	0.02	0.00	1.55	2.00	0.00	0.00	0.03	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.03	0.00
1.63	2.00	0.00	0.00	0.02	0.00	1.65	2.00	0.00	0.00	0.02	0.00
1.68	2.00	0.00	0.00	0.03	0.00	1.70	2.00	0.00	0.00	0.02	0.00
1.73	2.00	0.00	0.00	0.03	0.00	1.75	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.03	0.00
1.83	2.00	0.00	0.00	0.02	0.00	1.85	2.00	0.00	0.00	0.03	0.00
1.88	2.00	0.00	0.00	0.02	0.00	1.90	2.00	0.00	0.00	0.02	0.00
1.93	2.00	0.00	0.00	0.03	0.00	1.95	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.03	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.03	2.00	0.00	0.00	0.02	0.00	2.05	2.00	0.00	0.00	0.02	0.00
2.08	2.00	0.00	0.00	0.03	0.00	2.10	2.00	0.00	0.00	0.02	0.00
2.13	2.00	0.00	0.00	0.02	0.00	2.15	2.00	0.00	0.00	0.02	0.00
2.17	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.03	0.00
2.23	2.00	0.00	0.00	0.02	0.00	2.25	2.00	0.00	0.00	0.02	0.00
2.28	2.00	0.00	0.00	0.02	0.00	2.30	2.00	0.00	0.00	0.02	0.00
2.33	2.00	0.00	0.00	0.03	0.00	2.35	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.42	2.00	0.00	0.00	0.02	0.00	2.45	2.00	0.00	0.00	0.03	0.00
2.48	2.00	0.00	0.00	0.02	0.00	2.50	2.00	0.00	0.00	0.02	0.00
2.53	2.00	0.00	0.00	0.02	0.00	2.55	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.03	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.63	0.40	0.60	0.39	0.02	0.13	2.65	2.00	0.00	0.00	0.02	0.00
2.67	0.40	0.60	0.39	0.02	0.13	2.70	2.00	0.00	0.00	0.03	0.00
2.73	2.00	0.00	0.00	0.02	0.00	2.75	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00
2.83	2.00	0.00	0.00	0.03	0.00	2.85	2.00	0.00	0.00	0.02	0.00
2.88	2.00	0.00	0.00	0.02	0.00	2.90	2.00	0.00	0.00	0.02	0.00
2.93	2.00	0.00	0.00	0.02	0.00	2.95	2.00	0.00	0.00	0.03	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.03	2.00	0.00	0.00	0.02	0.00	3.05	2.00	0.00	0.00	0.02	0.00
3.08	2.00	0.00	0.00	0.03	0.00	3.10	2.00	0.00	0.00	0.02	0.00
3.13	2.00	0.00	0.00	0.02	0.00	3.15	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.03	0.00
3.23	2.00	0.00	0.00	0.02	0.00	3.25	2.00	0.00	0.00	0.02	0.00
3.28	2.00	0.00	0.00	0.02	0.00	3.30	2.00	0.00	0.00	0.02	0.00
3.33	2.00	0.00	0.00	0.03	0.00	3.35	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.43	2.00	0.00	0.00	0.02	0.00	3.45	2.00	0.00	0.00	0.03	0.00
3.48	2.00	0.00	0.00	0.02	0.00	3.50	2.00	0.00	0.00	0.02	0.00
3.53	2.00	0.00	0.00	0.02	0.00	3.55	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.03	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.63	2.00	0.00	0.00	0.02	0.00	3.65	2.00	0.00	0.00	0.02	0.00
3.68	2.00	0.00	0.00	0.02	0.00	3.70	2.00	0.00	0.00	0.03	0.00
3.73	2.00	0.00	0.00	0.02	0.00	3.75	2.00	0.00	0.00	0.02	0.00
3.78	2.00	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.83	2.00	0.00	0.00	0.03	0.00	3.85	2.00	0.00	0.00	0.02	0.00
3.88	2.00	0.00	0.00	0.02	0.00	3.90	2.00	0.00	0.00	0.02	0.00
3.93	2.00	0.00	0.00	0.02	0.00	3.95	2.00	0.00	0.00	0.03	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.03	2.00	0.00	0.00	0.03	0.00	4.05	2.00	0.00	0.00	0.02	0.00
4.08	2.00	0.00	0.00	0.03	0.00	4.10	2.00	0.00	0.00	0.02	0.00
4.13	2.00	0.00	0.00	0.03	0.00	4.15	2.00	0.00	0.00	0.03	0.00
4.18	2.00	0.00	0.00	0.02	0.00	4.20	2.00	0.00	0.00	0.03	0.00
4.22	2.00	0.00	0.00	0.02	0.00	4.25	2.00	0.00	0.00	0.03	0.00
4.28	2.00	0.00	0.00	0.03	0.00	4.30	2.00	0.00	0.00	0.02	0.00
4.33	2.00	0.00	0.00	0.03	0.00	4.35	2.00	0.00	0.00	0.02	0.00
4.38	2.00	0.00	0.00	0.03	0.00	4.40	2.00	0.00	0.00	0.03	0.00
4.43	2.00	0.00	0.00	0.02	0.00	4.45	2.00	0.00	0.00	0.03	0.00
4.47	2.00	0.00	0.00	0.02	0.00	4.50	2.00	0.00	0.00	0.03	0.00
4.53	2.00	0.00	0.00	0.03	0.00	4.55	2.00	0.00	0.00	0.02	0.00
4.58	2.00	0.00	0.00	0.03	0.00	4.60	2.00	0.00	0.00	0.02	0.00
4.63	2.00	0.00	0.00	0.03	0.00	4.65	2.00	0.00	0.00	0.03	0.00
4.68	2.00	0.00	0.00	0.02	0.00	4.70	2.00	0.00	0.00	0.03	0.00
4.72	2.00	0.00	0.00	0.02	0.00	4.75	2.00	0.00	0.00	0.03	0.00
4.78	2.00	0.00	0.00	0.03	0.00	4.80	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.83	2.00	0.00	0.00	0.03	0.00	4.85	2.00	0.00	0.00	0.02	0.00
4.88	2.00	0.00	0.00	0.03	0.00	4.90	2.00	0.00	0.00	0.03	0.00
4.93	2.00	0.00	0.00	0.02	0.00	4.95	2.00	0.00	0.00	0.03	0.00
4.97	2.00	0.00	0.00	0.02	0.00	5.00	2.00	0.00	0.00	0.03	0.00
5.03	2.00	0.00	0.00	0.03	0.00	5.05	2.00	0.00	0.00	0.02	0.00
5.08	2.00	0.00	0.00	0.03	0.00	5.10	2.00	0.00	0.00	0.02	0.00
5.13	2.00	0.00	0.00	0.03	0.00	5.15	2.00	0.00	0.00	0.03	0.00
5.18	2.00	0.00	0.00	0.02	0.00	5.20	2.00	0.00	0.00	0.03	0.00
5.22	2.00	0.00	0.00	0.02	0.00	5.25	2.00	0.00	0.00	0.03	0.00
5.28	2.00	0.00	0.00	0.03	0.00	5.30	2.00	0.00	0.00	0.02	0.00
5.33	2.00	0.00	0.00	0.03	0.00	5.35	2.00	0.00	0.00	0.02	0.00
5.38	2.00	0.00	0.00	0.03	0.00	5.40	2.00	0.00	0.00	0.03	0.00
5.43	2.00	0.00	0.00	0.02	0.00	5.45	2.00	0.00	0.00	0.03	0.00
5.47	2.00	0.00	0.00	0.02	0.00	5.50	2.00	0.00	0.00	0.03	0.00
5.53	2.00	0.00	0.00	0.03	0.00	5.55	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.03	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.63	2.00	0.00	0.00	0.03	0.00	5.65	2.00	0.00	0.00	0.03	0.00
5.68	2.00	0.00	0.00	0.02	0.00	5.70	2.00	0.00	0.00	0.03	0.00
5.72	2.00	0.00	0.00	0.02	0.00	5.75	2.00	0.00	0.00	0.03	0.00
5.78	2.00	0.00	0.00	0.03	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.83	2.00	0.00	0.00	0.03	0.00	5.85	2.00	0.00	0.00	0.02	0.00
5.88	2.00	0.00	0.00	0.03	0.00	5.90	2.00	0.00	0.00	0.03	0.00
5.93	2.00	0.00	0.00	0.02	0.00	5.95	2.00	0.00	0.00	0.03	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.03	0.00
6.03	2.00	0.00	0.00	0.03	0.00	6.05	2.00	0.00	0.00	0.02	0.00
6.08	2.00	0.00	0.00	0.03	0.00	6.10	2.00	0.00	0.00	0.02	0.00
6.13	2.00	0.00	0.00	0.03	0.00	6.15	2.00	0.00	0.00	0.03	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.03	0.00
6.23	2.00	0.00	0.00	0.02	0.00	6.25	2.00	0.00	0.00	0.03	0.00
6.28	2.00	0.00	0.00	0.03	0.00	6.30	2.00	0.00	0.00	0.02	0.00
6.33	2.00	0.00	0.00	0.03	0.00	6.35	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.03	0.00	6.40	2.00	0.00	0.00	0.03	0.00
6.43	2.00	0.00	0.00	0.02	0.00	6.45	2.00	0.00	0.00	0.03	0.00
6.48	2.00	0.00	0.00	0.02	0.00	6.50	2.00	0.00	0.00	0.03	0.00
6.53	2.00	0.00	0.00	0.03	0.00	6.55	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.03	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.63	2.00	0.00	0.00	0.03	0.00	6.65	2.00	0.00	0.00	0.03	0.00
6.68	2.00	0.00	0.00	0.02	0.00	6.70	2.00	0.00	0.00	0.03	0.00
6.73	2.00	0.00	0.00	0.02	0.00	6.75	2.00	0.00	0.00	0.03	0.00
6.78	2.00	0.00	0.00	0.03	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.83	2.00	0.00	0.00	0.03	0.00	6.85	2.00	0.00	0.00	0.02	0.00
6.88	2.00	0.00	0.00	0.03	0.00	6.90	2.00	0.00	0.00	0.03	0.00
6.93	0.46	0.54	0.44	0.02	0.09	6.95	0.47	0.53	0.44	0.03	0.09
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.03	0.00
7.03	2.00	0.00	0.00	0.03	0.00	7.05	2.00	0.00	0.00	0.02	0.00
7.08	2.00	0.00	0.00	0.03	0.00	7.10	2.00	0.00	0.00	0.02	0.00
7.13	2.00	0.00	0.00	0.03	0.00	7.15	2.00	0.00	0.00	0.03	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.03	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.23	2.00	0.00	0.00	0.02	0.00	7.25	2.00	0.00	0.00	0.03	0.00
7.28	2.00	0.00	0.00	0.03	0.00	7.30	2.00	0.00	0.00	0.02	0.00
7.33	2.00	0.00	0.00	0.03	0.00	7.35	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.03	0.00	7.40	2.00	0.00	0.00	0.03	0.00
7.43	2.00	0.00	0.00	0.02	0.00	7.45	2.00	0.00	0.00	0.03	0.00
7.48	2.00	0.00	0.00	0.02	0.00	7.50	2.00	0.00	0.00	0.03	0.00
7.53	2.00	0.00	0.00	0.03	0.00	7.55	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.03	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.63	2.00	0.00	0.00	0.03	0.00	7.65	2.00	0.00	0.00	0.03	0.00
7.68	2.00	0.00	0.00	0.02	0.00	7.70	2.00	0.00	0.00	0.03	0.00
7.73	2.00	0.00	0.00	0.02	0.00	7.75	2.00	0.00	0.00	0.03	0.00
7.78	2.00	0.00	0.00	0.03	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.83	2.00	0.00	0.00	0.03	0.00	7.85	2.00	0.00	0.00	0.02	0.00
7.88	2.00	0.00	0.00	0.03	0.00	7.90	2.00	0.00	0.00	0.03	0.00
7.93	2.00	0.00	0.00	0.02	0.00	7.95	2.00	0.00	0.00	0.03	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.03	0.00
8.03	2.00	0.00	0.00	0.03	0.00	8.05	2.00	0.00	0.00	0.03	0.00
8.07	2.00	0.00	0.00	0.02	0.00	8.10	2.00	0.00	0.00	0.03	0.00
8.13	2.00	0.00	0.00	0.03	0.00	8.15	2.00	0.00	0.00	0.03	0.00
8.18	2.00	0.00	0.00	0.03	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.23	2.00	0.00	0.00	0.03	0.00	8.25	2.00	0.00	0.00	0.03	0.00
8.28	2.00	0.00	0.00	0.03	0.00	8.30	2.00	0.00	0.00	0.03	0.00
8.32	2.00	0.00	0.00	0.02	0.00	8.35	2.00	0.00	0.00	0.03	0.00
8.38	2.00	0.00	0.00	0.03	0.00	8.40	2.00	0.00	0.00	0.03	0.00
8.43	2.00	0.00	0.00	0.03	0.00	8.45	2.00	0.00	0.00	0.02	0.00
8.48	2.00	0.00	0.00	0.03	0.00	8.50	2.00	0.00	0.00	0.03	0.00
8.53	2.00	0.00	0.00	0.03	0.00	8.55	2.00	0.00	0.00	0.03	0.00
8.57	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.03	0.00
8.63	2.00	0.00	0.00	0.03	0.00	8.65	2.00	0.00	0.00	0.03	0.00
8.68	2.00	0.00	0.00	0.03	0.00	8.70	2.00	0.00	0.00	0.02	0.00
8.73	2.00	0.00	0.00	0.03	0.00	8.75	2.00	0.00	0.00	0.03	0.00
8.78	2.00	0.00	0.00	0.03	0.00	8.80	2.00	0.00	0.00	0.03	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.85	2.00	0.00	0.00	0.03	0.00
8.88	2.00	0.00	0.00	0.03	0.00	8.90	2.00	0.00	0.00	0.03	0.00
8.93	2.00	0.00	0.00	0.03	0.00	8.95	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.03	0.00	9.00	2.00	0.00	0.00	0.03	0.00
9.03	2.00	0.00	0.00	0.03	0.00	9.05	2.00	0.00	0.00	0.03	0.00
9.07	2.00	0.00	0.00	0.02	0.00	9.10	2.00	0.00	0.00	0.03	0.00
9.13	2.00	0.00	0.00	0.03	0.00	9.15	2.00	0.00	0.00	0.03	0.00
9.18	2.00	0.00	0.00	0.03	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.23	2.00	0.00	0.00	0.03	0.00	9.25	2.00	0.00	0.00	0.03	0.00
9.28	2.00	0.00	0.00	0.03	0.00	9.30	2.00	0.00	0.00	0.03	0.00
9.32	2.00	0.00	0.00	0.02	0.00	9.35	2.00	0.00	0.00	0.03	0.00
9.38	2.00	0.00	0.00	0.03	0.00	9.40	2.00	0.00	0.00	0.03	0.00
9.43	2.00	0.00	0.00	0.03	0.00	9.45	2.00	0.00	0.00	0.02	0.00
9.48	2.00	0.00	0.00	0.03	0.00	9.50	2.00	0.00	0.00	0.03	0.00
9.53	2.00	0.00	0.00	0.03	0.00	9.55	2.00	0.00	0.00	0.03	0.00
9.57	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.03	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.63	2.00	0.00	0.00	0.03	0.00	9.65	2.00	0.00	0.00	0.03	0.00
9.68	2.00	0.00	0.00	0.03	0.00	9.70	2.00	0.00	0.00	0.02	0.00
9.73	2.00	0.00	0.00	0.03	0.00	9.75	2.00	0.00	0.00	0.03	0.00
9.78	2.00	0.00	0.00	0.03	0.00	9.80	2.00	0.00	0.00	0.03	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.85	2.00	0.00	0.00	0.03	0.00
9.88	2.00	0.00	0.00	0.03	0.00	9.90	2.00	0.00	0.00	0.03	0.00
9.93	2.00	0.00	0.00	0.03	0.00	9.95	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.03	0.00	10.00	2.00	0.00	0.00	0.03	0.00
10.03	2.00	0.00	0.00	0.03	0.00	10.05	2.00	0.00	0.00	0.03	0.00
10.07	2.00	0.00	0.00	0.02	0.00	10.10	2.00	0.00	0.00	0.03	0.00
10.13	2.00	0.00	0.00	0.03	0.00	10.15	2.00	0.00	0.00	0.03	0.00
10.18	2.00	0.00	0.00	0.03	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.23	2.00	0.00	0.00	0.03	0.00	10.25	2.00	0.00	0.00	0.03	0.00
10.28	2.00	0.00	0.00	0.03	0.00	10.30	2.00	0.00	0.00	0.03	0.00
10.32	2.00	0.00	0.00	0.02	0.00	10.35	2.00	0.00	0.00	0.03	0.00
10.38	2.00	0.00	0.00	0.03	0.00	10.40	2.00	0.00	0.00	0.03	0.00
10.43	2.00	0.00	0.00	0.03	0.00	10.45	2.00	0.00	0.00	0.02	0.00
10.48	2.00	0.00	0.00	0.03	0.00	10.50	2.00	0.00	0.00	0.03	0.00
10.53	2.00	0.00	0.00	0.03	0.00	10.55	2.00	0.00	0.00	0.03	0.00
10.57	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.03	0.00
10.63	2.00	0.00	0.00	0.03	0.00	10.65	2.00	0.00	0.00	0.03	0.00
10.68	2.00	0.00	0.00	0.03	0.00	10.70	2.00	0.00	0.00	0.02	0.00
10.73	2.00	0.00	0.00	0.03	0.00	10.75	2.00	0.00	0.00	0.03	0.00
10.78	2.00	0.00	0.00	0.03	0.00	10.80	2.00	0.00	0.00	0.03	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.85	2.00	0.00	0.00	0.03	0.00
10.88	2.00	0.00	0.00	0.03	0.00	10.90	2.00	0.00	0.00	0.03	0.00
10.93	2.00	0.00	0.00	0.03	0.00	10.95	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.03	0.00	11.00	2.00	0.00	0.00	0.03	0.00
11.03	2.00	0.00	0.00	0.03	0.00	11.05	2.00	0.00	0.00	0.03	0.00
11.07	2.00	0.00	0.00	0.02	0.00	11.10	2.00	0.00	0.00	0.03	0.00
11.13	2.00	0.00	0.00	0.03	0.00	11.15	2.00	0.00	0.00	0.03	0.00
11.18	2.00	0.00	0.00	0.03	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.23	2.00	0.00	0.00	0.03	0.00	11.25	2.00	0.00	0.00	0.03	0.00
11.28	2.00	0.00	0.00	0.03	0.00	11.30	2.00	0.00	0.00	0.03	0.00
11.32	2.00	0.00	0.00	0.02	0.00	11.35	2.00	0.00	0.00	0.03	0.00
11.38	2.00	0.00	0.00	0.03	0.00	11.40	2.00	0.00	0.00	0.03	0.00
11.43	2.00	0.00	0.00	0.03	0.00	11.45	2.00	0.00	0.00	0.02	0.00
11.48	2.00	0.00	0.00	0.03	0.00	11.50	2.00	0.00	0.00	0.03	0.00
11.53	2.00	0.00	0.00	0.03	0.00	11.55	2.00	0.00	0.00	0.03	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.03	0.00
11.63	2.00	0.00	0.00	0.03	0.00	11.65	2.00	0.00	0.00	0.03	0.00
11.68	2.00	0.00	0.00	0.03	0.00	11.70	2.00	0.00	0.00	0.02	0.00
11.73	2.00	0.00	0.00	0.03	0.00	11.75	2.00	0.00	0.00	0.03	0.00
11.78	2.00	0.00	0.00	0.03	0.00	11.80	2.00	0.00	0.00	0.03	0.00
11.83	2.00	0.00	0.00	0.02	0.00	11.85	2.00	0.00	0.00	0.03	0.00
11.88	2.00	0.00	0.00	0.03	0.00	11.90	2.00	0.00	0.00	0.03	0.00
11.93	2.00	0.00	0.00	0.03	0.00	11.95	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.03	0.00	12.00	2.00	0.00	0.00	0.03	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.03	2.00	0.00	0.00	0.03	0.00	12.05	2.00	0.00	0.00	0.03	0.00
12.08	2.00	0.00	0.00	0.02	0.00	12.10	2.00	0.00	0.00	0.03	0.00
12.13	2.00	0.00	0.00	0.03	0.00	12.15	2.00	0.00	0.00	0.03	0.00
12.18	2.00	0.00	0.00	0.03	0.00	12.20	2.00	0.00	0.00	0.02	0.00
12.23	2.00	0.00	0.00	0.03	0.00	12.25	2.00	0.00	0.00	0.03	0.00
12.28	2.00	0.00	0.00	0.03	0.00	12.30	2.00	0.00	0.00	0.03	0.00
12.33	2.00	0.00	0.00	0.02	0.00	12.35	2.00	0.00	0.00	0.03	0.00
12.38	2.00	0.00	0.00	0.03	0.00	12.40	2.00	0.00	0.00	0.03	0.00
12.43	2.00	0.00	0.00	0.03	0.00	12.45	2.00	0.00	0.00	0.02	0.00
12.48	2.00	0.00	0.00	0.03	0.00	12.50	2.00	0.00	0.00	0.03	0.00
12.53	2.00	0.00	0.00	0.03	0.00	12.55	2.00	0.00	0.00	0.03	0.00
12.58	2.00	0.00	0.00	0.02	0.00	12.60	2.00	0.00	0.00	0.03	0.00
12.63	2.00	0.00	0.00	0.03	0.00	12.65	2.00	0.00	0.00	0.03	0.00
12.68	2.00	0.00	0.00	0.03	0.00	12.70	2.00	0.00	0.00	0.02	0.00
12.73	2.00	0.00	0.00	0.03	0.00	12.75	2.00	0.00	0.00	0.03	0.00
12.78	2.00	0.00	0.00	0.03	0.00	12.80	2.00	0.00	0.00	0.03	0.00
12.83	2.00	0.00	0.00	0.02	0.00	12.85	2.00	0.00	0.00	0.03	0.00
12.88	2.00	0.00	0.00	0.03	0.00	12.90	2.00	0.00	0.00	0.03	0.00
12.93	2.00	0.00	0.00	0.03	0.00	12.95	2.00	0.00	0.00	0.02	0.00
12.98	2.00	0.00	0.00	0.03	0.00	13.00	2.00	0.00	0.00	0.03	0.00
13.03	2.00	0.00	0.00	0.03	0.00	13.05	2.00	0.00	0.00	0.03	0.00
13.08	2.00	0.00	0.00	0.02	0.00	13.10	2.00	0.00	0.00	0.03	0.00
13.13	2.00	0.00	0.00	0.03	0.00	13.15	2.00	0.00	0.00	0.03	0.00
13.18	2.00	0.00	0.00	0.03	0.00	13.20	2.00	0.00	0.00	0.02	0.00
13.23	2.00	0.00	0.00	0.03	0.00	13.25	2.00	0.00	0.00	0.03	0.00
13.28	2.00	0.00	0.00	0.03	0.00	13.30	2.00	0.00	0.00	0.03	0.00
13.33	2.00	0.00	0.00	0.02	0.00	13.35	2.00	0.00	0.00	0.03	0.00
13.38	2.00	0.00	0.00	0.03	0.00	13.40	2.00	0.00	0.00	0.03	0.00
13.43	2.00	0.00	0.00	0.03	0.00	13.45	2.00	0.00	0.00	0.02	0.00
13.48	2.00	0.00	0.00	0.03	0.00	13.50	2.00	0.00	0.00	0.03	0.00
13.53	2.00	0.00	0.00	0.03	0.00	13.55	2.00	0.00	0.00	0.03	0.00
13.58	2.00	0.00	0.00	0.02	0.00	13.60	2.00	0.00	0.00	0.03	0.00
13.63	2.00	0.00	0.00	0.03	0.00	13.65	2.00	0.00	0.00	0.03	0.00
13.68	2.00	0.00	0.00	0.03	0.00	13.70	2.00	0.00	0.00	0.02	0.00
13.73	2.00	0.00	0.00	0.03	0.00	13.75	2.00	0.00	0.00	0.03	0.00
13.78	2.00	0.00	0.00	0.03	0.00	13.80	2.00	0.00	0.00	0.03	0.00
13.83	2.00	0.00	0.00	0.02	0.00	13.85	2.00	0.00	0.00	0.03	0.00
13.88	2.00	0.00	0.00	0.03	0.00	13.90	2.00	0.00	0.00	0.03	0.00
13.93	2.00	0.00	0.00	0.03	0.00	13.95	2.00	0.00	0.00	0.02	0.00
13.98	2.00	0.00	0.00	0.03	0.00	14.00	2.00	0.00	0.00	0.03	0.00
14.03	2.00	0.00	0.00	0.03	0.00	14.05	2.00	0.00	0.00	0.03	0.00
14.08	2.00	0.00	0.00	0.02	0.00	14.10	2.00	0.00	0.00	0.03	0.00
14.13	2.00	0.00	0.00	0.03	0.00	14.15	2.00	0.00	0.00	0.03	0.00
14.18	2.00	0.00	0.00	0.03	0.00	14.20	2.00	0.00	0.00	0.02	0.00
14.23	2.00	0.00	0.00	0.03	0.00	14.25	2.00	0.00	0.00	0.03	0.00
14.28	2.00	0.00	0.00	0.03	0.00	14.30	2.00	0.00	0.00	0.03	0.00
14.33	2.00	0.00	0.00	0.02	0.00	14.35	2.00	0.00	0.00	0.03	0.00
14.38	2.00	0.00	0.00	0.03	0.00	14.40	2.00	0.00	0.00	0.03	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.43	2.00	0.00	0.00	0.03	0.00	14.45	2.00	0.00	0.00	0.02	0.00
14.48	2.00	0.00	0.00	0.03	0.00	14.50	2.00	0.00	0.00	0.03	0.00
14.53	2.00	0.00	0.00	0.03	0.00	14.55	2.00	0.00	0.00	0.03	0.00
14.58	2.00	0.00	0.00	0.02	0.00	14.60	2.00	0.00	0.00	0.03	0.00
14.63	2.00	0.00	0.00	0.03	0.00	14.65	2.00	0.00	0.00	0.03	0.00
14.68	2.00	0.00	0.00	0.03	0.00	14.70	2.00	0.00	0.00	0.02	0.00
14.73	2.00	0.00	0.00	0.03	0.00	14.75	2.00	0.00	0.00	0.03	0.00
14.78	2.00	0.00	0.00	0.03	0.00	14.80	2.00	0.00	0.00	0.03	0.00
14.83	2.00	0.00	0.00	0.02	0.00	14.85	2.00	0.00	0.00	0.03	0.00
14.88	2.00	0.00	0.00	0.03	0.00	14.90	2.00	0.00	0.00	0.03	0.00
14.93	2.00	0.00	0.00	0.03	0.00	14.95	2.00	0.00	0.00	0.02	0.00
14.98	2.00	0.00	0.00	0.03	0.00	15.00	2.00	0.00	0.00	0.03	0.00
15.03	2.00	0.00	0.00	0.03	0.00	15.05	2.00	0.00	0.00	0.03	0.00
15.08	2.00	0.00	0.00	0.02	0.00	15.10	2.00	0.00	0.00	0.03	0.00
15.13	2.00	0.00	0.00	0.03	0.00	15.15	2.00	0.00	0.00	0.03	0.00
15.18	2.00	0.00	0.00	0.03	0.00	15.20	2.00	0.00	0.00	0.02	0.00
15.23	2.00	0.00	0.00	0.03	0.00	15.25	2.00	0.00	0.00	0.03	0.00
15.28	2.00	0.00	0.00	0.03	0.00	15.30	2.00	0.00	0.00	0.03	0.00
15.33	2.00	0.00	0.00	0.02	0.00	15.35	2.00	0.00	0.00	0.03	0.00
15.38	2.00	0.00	0.00	0.03	0.00	15.40	2.00	0.00	0.00	0.03	0.00
15.43	2.00	0.00	0.00	0.03	0.00	15.45	2.00	0.00	0.00	0.02	0.00
15.48	2.00	0.00	0.00	0.03	0.00	15.50	2.00	0.00	0.00	0.03	0.00
15.53	2.00	0.00	0.00	0.03	0.00	15.55	2.00	0.00	0.00	0.03	0.00
15.58	2.00	0.00	0.00	0.02	0.00	15.60	2.00	0.00	0.00	0.03	0.00
15.63	2.00	0.00	0.00	0.03	0.00	15.65	2.00	0.00	0.00	0.03	0.00
15.68	2.00	0.00	0.00	0.03	0.00	15.70	2.00	0.00	0.00	0.02	0.00
15.73	2.00	0.00	0.00	0.03	0.00	15.75	2.00	0.00	0.00	0.03	0.00
15.78	2.00	0.00	0.00	0.03	0.00	15.80	2.00	0.00	0.00	0.03	0.00
15.83	2.00	0.00	0.00	0.02	0.00	15.85	2.00	0.00	0.00	0.03	0.00
15.88	2.00	0.00	0.00	0.03	0.00	15.90	2.00	0.00	0.00	0.03	0.00
15.93	2.00	0.00	0.00	0.03	0.00	15.95	2.00	0.00	0.00	0.02	0.00
15.98	2.00	0.00	0.00	0.03	0.00	16.00	2.00	0.00	0.00	0.03	0.00
16.03	2.00	0.00	0.00	0.02	0.00	16.05	2.00	0.00	0.00	0.03	0.00
16.08	2.00	0.00	0.00	0.02	0.00	16.10	2.00	0.00	0.00	0.03	0.00
16.13	2.00	0.00	0.00	0.02	0.00	16.15	2.00	0.00	0.00	0.02	0.00
16.18	2.00	0.00	0.00	0.03	0.00	16.20	2.00	0.00	0.00	0.02	0.00
16.23	2.00	0.00	0.00	0.03	0.00	16.25	2.00	0.00	0.00	0.02	0.00
16.28	2.00	0.00	0.00	0.02	0.00	16.30	2.00	0.00	0.00	0.03	0.00
16.33	2.00	0.00	0.00	0.02	0.00	16.35	2.00	0.00	0.00	0.03	0.00
16.38	2.00	0.00	0.00	0.02	0.00	16.40	2.00	0.00	0.00	0.02	0.00
16.43	2.00	0.00	0.00	0.03	0.00	16.45	2.00	0.00	0.00	0.02	0.00
16.48	2.00	0.00	0.00	0.03	0.00	16.50	2.00	0.00	0.00	0.02	0.00
16.53	2.00	0.00	0.00	0.02	0.00	16.55	2.00	0.00	0.00	0.03	0.00
16.58	2.00	0.00	0.00	0.02	0.00	16.60	2.00	0.00	0.00	0.03	0.00
16.63	2.00	0.00	0.00	0.02	0.00	16.65	2.00	0.00	0.00	0.02	0.00
16.68	2.00	0.00	0.00	0.03	0.00	16.70	2.00	0.00	0.00	0.02	0.00
16.73	2.00	0.00	0.00	0.03	0.00	16.75	2.00	0.00	0.00	0.02	0.00
16.78	2.00	0.00	0.00	0.02	0.00	16.80	2.00	0.00	0.00	0.03	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.83	2.00	0.00	0.00	0.02	0.00	16.85	2.00	0.00	0.00	0.03	0.00
16.88	2.00	0.00	0.00	0.02	0.00	16.90	2.00	0.00	0.00	0.02	0.00
16.93	2.00	0.00	0.00	0.03	0.00	16.95	2.00	0.00	0.00	0.02	0.00
16.98	2.00	0.00	0.00	0.03	0.00	17.00	2.00	0.00	0.00	0.02	0.00
17.03	2.00	0.00	0.00	0.02	0.00	17.05	2.00	0.00	0.00	0.03	0.00
17.08	2.00	0.00	0.00	0.02	0.00	17.10	2.00	0.00	0.00	0.03	0.00
17.13	2.00	0.00	0.00	0.02	0.00	17.15	2.00	0.00	0.00	0.02	0.00
17.18	2.00	0.00	0.00	0.03	0.00	17.20	2.00	0.00	0.00	0.02	0.00
17.23	2.00	0.00	0.00	0.03	0.00	17.25	2.00	0.00	0.00	0.02	0.00
17.28	2.00	0.00	0.00	0.02	0.00	17.30	2.00	0.00	0.00	0.03	0.00
17.33	2.00	0.00	0.00	0.02	0.00	17.35	2.00	0.00	0.00	0.03	0.00
17.38	2.00	0.00	0.00	0.02	0.00	17.40	2.00	0.00	0.00	0.02	0.00
17.43	2.00	0.00	0.00	0.03	0.00	17.45	2.00	0.00	0.00	0.02	0.00
17.48	2.00	0.00	0.00	0.03	0.00	17.50	2.00	0.00	0.00	0.02	0.00
17.53	2.00	0.00	0.00	0.02	0.00	17.55	0.72	0.28	1.01	0.03	0.01
17.58	0.75	0.25	1.18	0.02	0.01	17.60	0.77	0.23	1.35	0.03	0.01
17.63	0.75	0.25	1.18	0.02	0.01	17.65	0.78	0.22	1.40	0.02	0.01
17.68	0.82	0.18	1.90	0.03	0.01	17.70	0.85	0.15	2.63	0.02	0.00
17.73	0.88	0.12	4.09	0.03	0.00	17.75	0.89	0.11	5.37	0.02	0.00
17.78	0.92	0.08	12.19	0.02	0.00	17.80	0.93	0.07	13.47	0.03	0.00
17.83	0.89	0.11	4.98	0.02	0.00	17.85	0.72	0.28	0.99	0.03	0.01
17.88	0.68	0.32	0.85	0.02	0.01	17.90	0.73	0.27	1.07	0.02	0.01
17.93	0.78	0.22	1.46	0.03	0.01	17.95	0.82	0.18	1.96	0.02	0.00
17.98	0.93	0.07	12.70	0.03	0.00	18.00	0.91	0.09	8.83	0.02	0.00
18.03	0.83	0.17	2.22	0.02	0.00	18.05	0.76	0.24	1.23	0.03	0.01
18.08	0.70	0.30	0.91	0.02	0.01	18.10	0.66	0.34	0.76	0.03	0.01
18.13	0.63	0.37	0.69	0.02	0.01	18.15	0.64	0.36	0.73	0.02	0.01
18.18	0.68	0.32	0.83	0.03	0.01	18.20	0.71	0.29	0.95	0.02	0.01
18.23	0.72	0.28	1.04	0.03	0.01	18.25	0.73	0.27	1.08	0.02	0.01
18.28	0.81	0.19	1.75	0.02	0.00	18.30	0.95	0.05	65.38	0.03	0.00
18.33	1.37	0.00	0.00	0.02	0.00	18.35	1.41	0.00	0.00	0.03	0.00
18.38	0.73	0.27	1.07	0.02	0.01	18.40	0.88	0.12	3.90	0.02	0.00
18.43	0.74	0.26	1.10	0.03	0.01	18.45	2.00	0.00	0.00	0.02	0.00
18.48	2.00	0.00	0.00	0.03	0.00	18.50	2.00	0.00	0.00	0.02	0.00
18.53	2.00	0.00	0.00	0.02	0.00	18.55	2.00	0.00	0.00	0.03	0.00
18.58	2.00	0.00	0.00	0.02	0.00	18.60	2.00	0.00	0.00	0.03	0.00
18.63	2.00	0.00	0.00	0.02	0.00	18.65	2.00	0.00	0.00	0.02	0.00
18.68	2.00	0.00	0.00	0.03	0.00	18.70	2.00	0.00	0.00	0.02	0.00
18.73	2.00	0.00	0.00	0.03	0.00	18.75	2.00	0.00	0.00	0.02	0.00
18.78	2.00	0.00	0.00	0.02	0.00	18.80	2.00	0.00	0.00	0.03	0.00
18.83	2.00	0.00	0.00	0.02	0.00	18.85	2.00	0.00	0.00	0.03	0.00
18.88	2.00	0.00	0.00	0.02	0.00	18.90	2.00	0.00	0.00	0.02	0.00
18.93	2.00	0.00	0.00	0.03	0.00	18.95	2.00	0.00	0.00	0.02	0.00
18.98	2.00	0.00	0.00	0.03	0.00	19.00	2.00	0.00	0.00	0.02	0.00
19.03	2.00	0.00	0.00	0.02	0.00	19.05	2.00	0.00	0.00	0.03	0.00
19.08	2.00	0.00	0.00	0.02	0.00	19.10	2.00	0.00	0.00	0.03	0.00
19.13	2.00	0.00	0.00	0.02	0.00	19.15	2.00	0.00	0.00	0.02	0.00
19.18	2.00	0.00	0.00	0.03	0.00	19.20	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.23	2.00	0.00	0.00	0.03	0.00	19.25	2.00	0.00	0.00	0.02	0.00
19.28	2.00	0.00	0.00	0.02	0.00	19.30	2.00	0.00	0.00	0.03	0.00
19.33	2.00	0.00	0.00	0.02	0.00	19.35	2.00	0.00	0.00	0.03	0.00
19.38	2.00	0.00	0.00	0.02	0.00	19.40	2.00	0.00	0.00	0.02	0.00
19.43	2.00	0.00	0.00	0.03	0.00	19.45	2.00	0.00	0.00	0.02	0.00
19.48	2.00	0.00	0.00	0.03	0.00	19.50	2.00	0.00	0.00	0.02	0.00
19.53	2.00	0.00	0.00	0.02	0.00	19.55	2.00	0.00	0.00	0.03	0.00
19.58	2.00	0.00	0.00	0.02	0.00	19.60	2.00	0.00	0.00	0.03	0.00
19.63	2.00	0.00	0.00	0.02	0.00	19.65	2.00	0.00	0.00	0.02	0.00
19.68	2.00	0.00	0.00	0.03	0.00	19.70	2.00	0.00	0.00	0.02	0.00
19.73	2.00	0.00	0.00	0.03	0.00	19.75	2.00	0.00	0.00	0.02	0.00
19.78	2.00	0.00	0.00	0.02	0.00	19.80	2.00	0.00	0.00	0.03	0.00
19.83	2.00	0.00	0.00	0.02	0.00	19.85	2.00	0.00	0.00	0.03	0.00
19.88	2.00	0.00	0.00	0.02	0.00	19.90	2.00	0.00	0.00	0.02	0.00
19.93	2.00	0.00	0.00	0.03	0.00	19.95	2.00	0.00	0.00	0.02	0.00
19.98	2.00	0.00	0.00	0.03	0.00	20.00	2.00	0.00	0.00	0.02	0.00

Overall liquefaction potential: 0.74

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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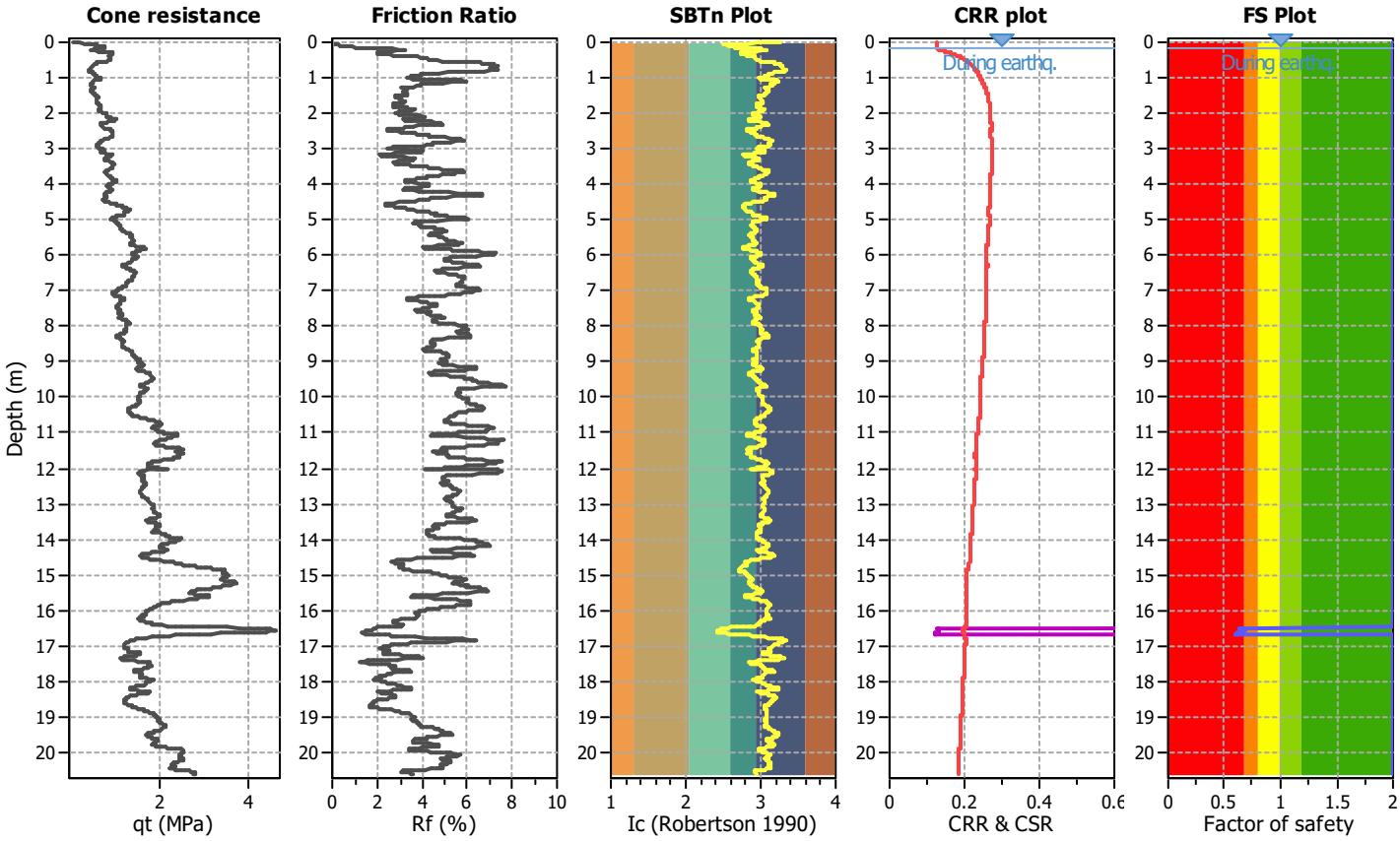
LIQUEFACTION ANALYSIS REPORT

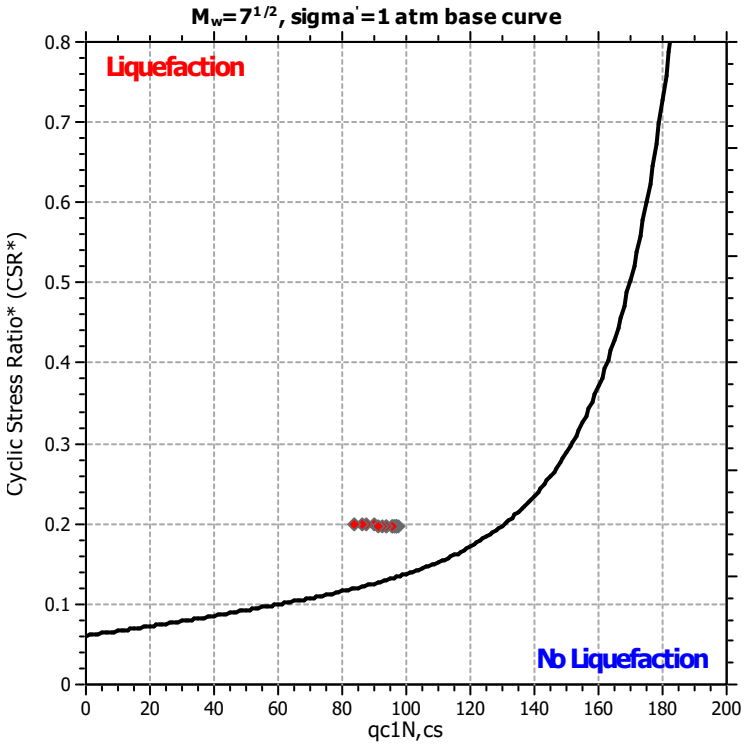
Project title : **Location :**

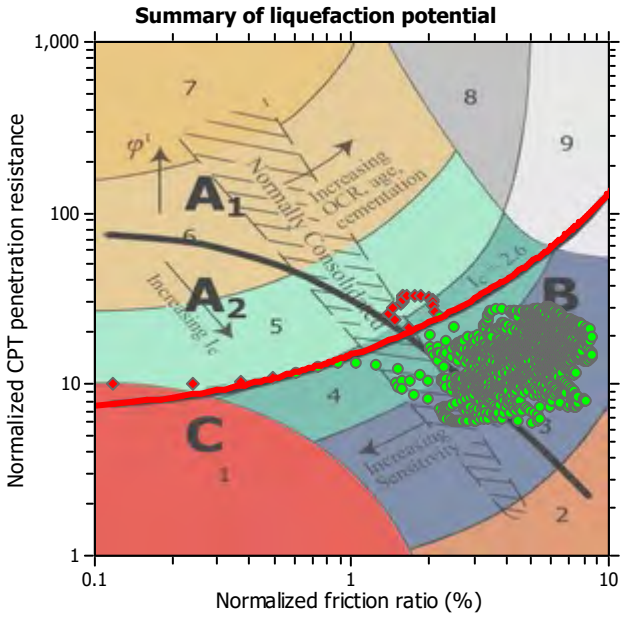
CPT file : SP242

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

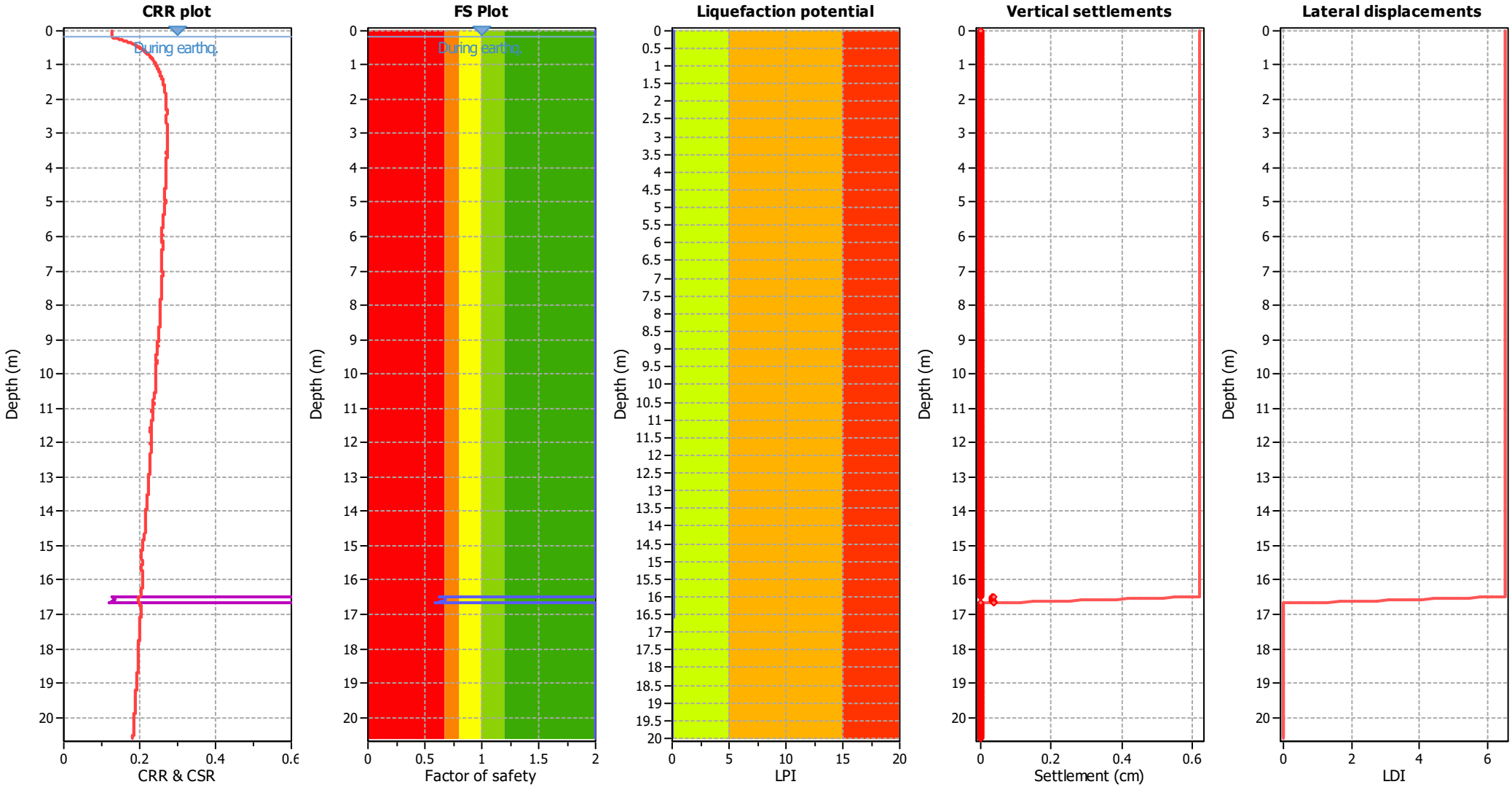






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.01	2.00	0.00	0.00	0.01	0.00	0.02	2.00	0.00	0.00	0.01	0.00
0.03	2.00	0.00	0.00	0.01	0.00	0.04	2.00	0.00	0.00	0.01	0.00
0.05	2.00	0.00	0.00	0.01	0.00	0.06	2.00	0.00	0.00	0.01	0.00
0.07	2.00	0.00	0.00	0.01	0.00	0.08	2.00	0.00	0.00	0.01	0.00
0.09	2.00	0.00	0.00	0.01	0.00	0.10	2.00	0.00	0.00	0.01	0.00
0.11	2.00	0.00	0.00	0.01	0.00	0.12	2.00	0.00	0.00	0.01	0.00
0.13	2.00	0.00	0.00	0.01	0.00	0.14	2.00	0.00	0.00	0.01	0.00
0.15	2.00	0.00	0.00	0.01	0.00	0.16	2.00	0.00	0.00	0.01	0.00
0.17	2.00	0.00	0.00	0.01	0.00	0.18	2.00	0.00	0.00	0.01	0.00
0.19	2.00	0.00	0.00	0.01	0.00	0.20	2.00	0.00	0.00	0.01	0.00
0.21	2.00	0.00	0.00	0.01	0.00	0.22	2.00	0.00	0.00	0.01	0.00
0.23	2.00	0.00	0.00	0.01	0.00	0.24	2.00	0.00	0.00	0.01	0.00
0.25	2.00	0.00	0.00	0.01	0.00	0.26	2.00	0.00	0.00	0.01	0.00
0.27	2.00	0.00	0.00	0.01	0.00	0.28	2.00	0.00	0.00	0.01	0.00
0.29	2.00	0.00	0.00	0.01	0.00	0.30	2.00	0.00	0.00	0.01	0.00
0.31	2.00	0.00	0.00	0.01	0.00	0.32	2.00	0.00	0.00	0.01	0.00
0.33	2.00	0.00	0.00	0.01	0.00	0.34	2.00	0.00	0.00	0.01	0.00
0.35	2.00	0.00	0.00	0.01	0.00	0.36	2.00	0.00	0.00	0.01	0.00
0.37	2.00	0.00	0.00	0.01	0.00	0.38	2.00	0.00	0.00	0.01	0.00
0.39	2.00	0.00	0.00	0.01	0.00	0.40	2.00	0.00	0.00	0.01	0.00
0.41	2.00	0.00	0.00	0.01	0.00	0.42	2.00	0.00	0.00	0.01	0.00
0.43	2.00	0.00	0.00	0.01	0.00	0.44	2.00	0.00	0.00	0.01	0.00
0.45	2.00	0.00	0.00	0.01	0.00	0.46	2.00	0.00	0.00	0.01	0.00
0.47	2.00	0.00	0.00	0.01	0.00	0.48	2.00	0.00	0.00	0.01	0.00
0.49	2.00	0.00	0.00	0.01	0.00	0.50	2.00	0.00	0.00	0.01	0.00
0.51	2.00	0.00	0.00	0.01	0.00	0.52	2.00	0.00	0.00	0.01	0.00
0.53	2.00	0.00	0.00	0.01	0.00	0.54	2.00	0.00	0.00	0.01	0.00
0.55	2.00	0.00	0.00	0.01	0.00	0.56	2.00	0.00	0.00	0.01	0.00
0.57	2.00	0.00	0.00	0.01	0.00	0.58	2.00	0.00	0.00	0.01	0.00
0.59	2.00	0.00	0.00	0.01	0.00	0.60	2.00	0.00	0.00	0.01	0.00
0.61	2.00	0.00	0.00	0.01	0.00	0.62	2.00	0.00	0.00	0.01	0.00
0.63	2.00	0.00	0.00	0.01	0.00	0.64	2.00	0.00	0.00	0.01	0.00
0.65	2.00	0.00	0.00	0.01	0.00	0.66	2.00	0.00	0.00	0.01	0.00
0.67	2.00	0.00	0.00	0.01	0.00	0.68	2.00	0.00	0.00	0.01	0.00
0.69	2.00	0.00	0.00	0.01	0.00	0.70	2.00	0.00	0.00	0.01	0.00
0.71	2.00	0.00	0.00	0.01	0.00	0.72	2.00	0.00	0.00	0.01	0.00
0.73	2.00	0.00	0.00	0.01	0.00	0.74	2.00	0.00	0.00	0.01	0.00
0.75	2.00	0.00	0.00	0.01	0.00	0.76	2.00	0.00	0.00	0.01	0.00
0.77	2.00	0.00	0.00	0.01	0.00	0.78	2.00	0.00	0.00	0.01	0.00
0.79	2.00	0.00	0.00	0.01	0.00	0.80	2.00	0.00	0.00	0.01	0.00
0.81	2.00	0.00	0.00	0.01	0.00	0.82	2.00	0.00	0.00	0.01	0.00
0.83	2.00	0.00	0.00	0.01	0.00	0.84	2.00	0.00	0.00	0.01	0.00
0.85	2.00	0.00	0.00	0.01	0.00	0.86	2.00	0.00	0.00	0.01	0.00
0.87	2.00	0.00	0.00	0.01	0.00	0.88	2.00	0.00	0.00	0.01	0.00
0.89	2.00	0.00	0.00	0.01	0.00	0.90	2.00	0.00	0.00	0.01	0.00
0.91	2.00	0.00	0.00	0.01	0.00	0.92	2.00	0.00	0.00	0.01	0.00
0.93	2.00	0.00	0.00	0.01	0.00	0.94	2.00	0.00	0.00	0.01	0.00
0.95	2.00	0.00	0.00	0.01	0.00	0.96	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.97	2.00	0.00	0.00	0.01	0.00	0.98	2.00	0.00	0.00	0.01	0.00
0.99	2.00	0.00	0.00	0.01	0.00	1.00	2.00	0.00	0.00	0.01	0.00
1.01	2.00	0.00	0.00	0.01	0.00	1.02	2.00	0.00	0.00	0.01	0.00
1.03	2.00	0.00	0.00	0.01	0.00	1.04	2.00	0.00	0.00	0.01	0.00
1.05	2.00	0.00	0.00	0.01	0.00	1.06	2.00	0.00	0.00	0.01	0.00
1.07	2.00	0.00	0.00	0.01	0.00	1.08	2.00	0.00	0.00	0.01	0.00
1.09	2.00	0.00	0.00	0.01	0.00	1.10	2.00	0.00	0.00	0.01	0.00
1.11	2.00	0.00	0.00	0.01	0.00	1.12	2.00	0.00	0.00	0.01	0.00
1.13	2.00	0.00	0.00	0.01	0.00	1.14	2.00	0.00	0.00	0.01	0.00
1.15	2.00	0.00	0.00	0.01	0.00	1.16	2.00	0.00	0.00	0.01	0.00
1.17	2.00	0.00	0.00	0.01	0.00	1.18	2.00	0.00	0.00	0.01	0.00
1.19	2.00	0.00	0.00	0.01	0.00	1.20	2.00	0.00	0.00	0.01	0.00
1.21	2.00	0.00	0.00	0.01	0.00	1.22	2.00	0.00	0.00	0.01	0.00
1.23	2.00	0.00	0.00	0.01	0.00	1.24	2.00	0.00	0.00	0.01	0.00
1.25	2.00	0.00	0.00	0.01	0.00	1.26	2.00	0.00	0.00	0.01	0.00
1.27	2.00	0.00	0.00	0.01	0.00	1.28	2.00	0.00	0.00	0.01	0.00
1.29	2.00	0.00	0.00	0.01	0.00	1.30	2.00	0.00	0.00	0.01	0.00
1.31	2.00	0.00	0.00	0.01	0.00	1.32	2.00	0.00	0.00	0.01	0.00
1.33	2.00	0.00	0.00	0.01	0.00	1.34	2.00	0.00	0.00	0.01	0.00
1.35	2.00	0.00	0.00	0.01	0.00	1.36	2.00	0.00	0.00	0.01	0.00
1.37	2.00	0.00	0.00	0.01	0.00	1.38	2.00	0.00	0.00	0.01	0.00
1.39	2.00	0.00	0.00	0.01	0.00	1.40	2.00	0.00	0.00	0.01	0.00
1.41	2.00	0.00	0.00	0.01	0.00	1.42	2.00	0.00	0.00	0.01	0.00
1.43	2.00	0.00	0.00	0.01	0.00	1.44	2.00	0.00	0.00	0.01	0.00
1.45	2.00	0.00	0.00	0.01	0.00	1.46	2.00	0.00	0.00	0.01	0.00
1.47	2.00	0.00	0.00	0.01	0.00	1.48	2.00	0.00	0.00	0.01	0.00
1.49	2.00	0.00	0.00	0.01	0.00	1.50	2.00	0.00	0.00	0.01	0.00
1.51	2.00	0.00	0.00	0.01	0.00	1.52	2.00	0.00	0.00	0.01	0.00
1.53	2.00	0.00	0.00	0.01	0.00	1.54	2.00	0.00	0.00	0.01	0.00
1.55	2.00	0.00	0.00	0.01	0.00	1.56	2.00	0.00	0.00	0.01	0.00
1.57	2.00	0.00	0.00	0.01	0.00	1.58	2.00	0.00	0.00	0.01	0.00
1.59	2.00	0.00	0.00	0.01	0.00	1.60	2.00	0.00	0.00	0.01	0.00
1.61	2.00	0.00	0.00	0.01	0.00	1.62	2.00	0.00	0.00	0.01	0.00
1.63	2.00	0.00	0.00	0.01	0.00	1.64	2.00	0.00	0.00	0.01	0.00
1.65	2.00	0.00	0.00	0.01	0.00	1.66	2.00	0.00	0.00	0.01	0.00
1.67	2.00	0.00	0.00	0.01	0.00	1.68	2.00	0.00	0.00	0.01	0.00
1.69	2.00	0.00	0.00	0.01	0.00	1.70	2.00	0.00	0.00	0.01	0.00
1.71	2.00	0.00	0.00	0.01	0.00	1.72	2.00	0.00	0.00	0.01	0.00
1.73	2.00	0.00	0.00	0.01	0.00	1.74	2.00	0.00	0.00	0.01	0.00
1.75	2.00	0.00	0.00	0.01	0.00	1.76	2.00	0.00	0.00	0.01	0.00
1.77	2.00	0.00	0.00	0.01	0.00	1.78	2.00	0.00	0.00	0.01	0.00
1.79	2.00	0.00	0.00	0.01	0.00	1.80	2.00	0.00	0.00	0.01	0.00
1.81	2.00	0.00	0.00	0.01	0.00	1.82	2.00	0.00	0.00	0.01	0.00
1.83	2.00	0.00	0.00	0.01	0.00	1.84	2.00	0.00	0.00	0.01	0.00
1.85	2.00	0.00	0.00	0.01	0.00	1.86	2.00	0.00	0.00	0.01	0.00
1.87	2.00	0.00	0.00	0.01	0.00	1.88	2.00	0.00	0.00	0.01	0.00
1.89	2.00	0.00	0.00	0.01	0.00	1.90	2.00	0.00	0.00	0.01	0.00
1.91	2.00	0.00	0.00	0.01	0.00	1.92	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.93	2.00	0.00	0.00	0.01	0.00	1.94	2.00	0.00	0.00	0.01	0.00
1.95	2.00	0.00	0.00	0.01	0.00	1.96	2.00	0.00	0.00	0.01	0.00
1.97	2.00	0.00	0.00	0.01	0.00	1.98	2.00	0.00	0.00	0.01	0.00
1.99	2.00	0.00	0.00	0.01	0.00	2.00	2.00	0.00	0.00	0.01	0.00
2.01	2.00	0.00	0.00	0.01	0.00	2.02	2.00	0.00	0.00	0.01	0.00
2.03	2.00	0.00	0.00	0.01	0.00	2.04	2.00	0.00	0.00	0.01	0.00
2.05	2.00	0.00	0.00	0.01	0.00	2.06	2.00	0.00	0.00	0.01	0.00
2.07	2.00	0.00	0.00	0.01	0.00	2.08	2.00	0.00	0.00	0.01	0.00
2.09	2.00	0.00	0.00	0.01	0.00	2.10	2.00	0.00	0.00	0.01	0.00
2.11	2.00	0.00	0.00	0.01	0.00	2.12	2.00	0.00	0.00	0.01	0.00
2.13	2.00	0.00	0.00	0.01	0.00	2.14	2.00	0.00	0.00	0.01	0.00
2.15	2.00	0.00	0.00	0.01	0.00	2.16	2.00	0.00	0.00	0.01	0.00
2.17	2.00	0.00	0.00	0.01	0.00	2.18	2.00	0.00	0.00	0.01	0.00
2.19	2.00	0.00	0.00	0.01	0.00	2.20	2.00	0.00	0.00	0.01	0.00
2.21	2.00	0.00	0.00	0.01	0.00	2.22	2.00	0.00	0.00	0.01	0.00
2.23	2.00	0.00	0.00	0.01	0.00	2.24	2.00	0.00	0.00	0.01	0.00
2.25	2.00	0.00	0.00	0.01	0.00	2.26	2.00	0.00	0.00	0.01	0.00
2.27	2.00	0.00	0.00	0.01	0.00	2.28	2.00	0.00	0.00	0.01	0.00
2.29	2.00	0.00	0.00	0.01	0.00	2.30	2.00	0.00	0.00	0.01	0.00
2.31	2.00	0.00	0.00	0.01	0.00	2.32	2.00	0.00	0.00	0.01	0.00
2.33	2.00	0.00	0.00	0.01	0.00	2.34	2.00	0.00	0.00	0.01	0.00
2.35	2.00	0.00	0.00	0.01	0.00	2.36	2.00	0.00	0.00	0.01	0.00
2.37	2.00	0.00	0.00	0.01	0.00	2.38	2.00	0.00	0.00	0.01	0.00
2.39	2.00	0.00	0.00	0.01	0.00	2.40	2.00	0.00	0.00	0.01	0.00
2.41	2.00	0.00	0.00	0.01	0.00	2.42	2.00	0.00	0.00	0.01	0.00
2.43	2.00	0.00	0.00	0.01	0.00	2.44	2.00	0.00	0.00	0.01	0.00
2.45	2.00	0.00	0.00	0.01	0.00	2.46	2.00	0.00	0.00	0.01	0.00
2.47	2.00	0.00	0.00	0.01	0.00	2.48	2.00	0.00	0.00	0.01	0.00
2.49	2.00	0.00	0.00	0.01	0.00	2.50	2.00	0.00	0.00	0.01	0.00
2.51	2.00	0.00	0.00	0.01	0.00	2.52	2.00	0.00	0.00	0.01	0.00
2.53	2.00	0.00	0.00	0.01	0.00	2.54	2.00	0.00	0.00	0.01	0.00
2.55	2.00	0.00	0.00	0.01	0.00	2.56	2.00	0.00	0.00	0.01	0.00
2.57	2.00	0.00	0.00	0.01	0.00	2.58	2.00	0.00	0.00	0.01	0.00
2.59	2.00	0.00	0.00	0.01	0.00	2.60	2.00	0.00	0.00	0.01	0.00
2.61	2.00	0.00	0.00	0.01	0.00	2.62	2.00	0.00	0.00	0.01	0.00
2.63	2.00	0.00	0.00	0.01	0.00	2.64	2.00	0.00	0.00	0.01	0.00
2.65	2.00	0.00	0.00	0.01	0.00	2.66	2.00	0.00	0.00	0.01	0.00
2.67	2.00	0.00	0.00	0.01	0.00	2.68	2.00	0.00	0.00	0.01	0.00
2.69	2.00	0.00	0.00	0.01	0.00	2.70	2.00	0.00	0.00	0.01	0.00
2.71	2.00	0.00	0.00	0.01	0.00	2.72	2.00	0.00	0.00	0.01	0.00
2.73	2.00	0.00	0.00	0.01	0.00	2.74	2.00	0.00	0.00	0.01	0.00
2.75	2.00	0.00	0.00	0.01	0.00	2.76	2.00	0.00	0.00	0.01	0.00
2.77	2.00	0.00	0.00	0.01	0.00	2.78	2.00	0.00	0.00	0.01	0.00
2.79	2.00	0.00	0.00	0.01	0.00	2.80	2.00	0.00	0.00	0.01	0.00
2.81	2.00	0.00	0.00	0.01	0.00	2.82	2.00	0.00	0.00	0.01	0.00
2.83	2.00	0.00	0.00	0.01	0.00	2.84	2.00	0.00	0.00	0.01	0.00
2.85	2.00	0.00	0.00	0.01	0.00	2.86	2.00	0.00	0.00	0.01	0.00
2.87	2.00	0.00	0.00	0.01	0.00	2.88	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.89	2.00	0.00	0.00	0.01	0.00	2.90	2.00	0.00	0.00	0.01	0.00
2.91	2.00	0.00	0.00	0.01	0.00	2.92	2.00	0.00	0.00	0.01	0.00
2.93	2.00	0.00	0.00	0.01	0.00	2.94	2.00	0.00	0.00	0.01	0.00
2.95	2.00	0.00	0.00	0.01	0.00	2.96	2.00	0.00	0.00	0.01	0.00
2.97	2.00	0.00	0.00	0.01	0.00	2.98	2.00	0.00	0.00	0.01	0.00
2.99	2.00	0.00	0.00	0.01	0.00	3.00	2.00	0.00	0.00	0.01	0.00
3.01	2.00	0.00	0.00	0.01	0.00	3.02	2.00	0.00	0.00	0.01	0.00
3.03	2.00	0.00	0.00	0.01	0.00	3.04	2.00	0.00	0.00	0.01	0.00
3.05	2.00	0.00	0.00	0.01	0.00	3.06	2.00	0.00	0.00	0.01	0.00
3.07	2.00	0.00	0.00	0.01	0.00	3.08	2.00	0.00	0.00	0.01	0.00
3.09	2.00	0.00	0.00	0.01	0.00	3.10	2.00	0.00	0.00	0.01	0.00
3.11	2.00	0.00	0.00	0.01	0.00	3.12	2.00	0.00	0.00	0.01	0.00
3.13	2.00	0.00	0.00	0.01	0.00	3.14	2.00	0.00	0.00	0.01	0.00
3.15	2.00	0.00	0.00	0.01	0.00	3.16	2.00	0.00	0.00	0.01	0.00
3.17	2.00	0.00	0.00	0.01	0.00	3.18	2.00	0.00	0.00	0.01	0.00
3.19	2.00	0.00	0.00	0.01	0.00	3.20	2.00	0.00	0.00	0.01	0.00
3.21	2.00	0.00	0.00	0.01	0.00	3.22	2.00	0.00	0.00	0.01	0.00
3.23	2.00	0.00	0.00	0.01	0.00	3.24	2.00	0.00	0.00	0.01	0.00
3.25	2.00	0.00	0.00	0.01	0.00	3.26	2.00	0.00	0.00	0.01	0.00
3.27	2.00	0.00	0.00	0.01	0.00	3.28	2.00	0.00	0.00	0.01	0.00
3.29	2.00	0.00	0.00	0.01	0.00	3.30	2.00	0.00	0.00	0.01	0.00
3.31	2.00	0.00	0.00	0.01	0.00	3.32	2.00	0.00	0.00	0.01	0.00
3.33	2.00	0.00	0.00	0.01	0.00	3.34	2.00	0.00	0.00	0.01	0.00
3.35	2.00	0.00	0.00	0.01	0.00	3.36	2.00	0.00	0.00	0.01	0.00
3.37	2.00	0.00	0.00	0.01	0.00	3.38	2.00	0.00	0.00	0.01	0.00
3.39	2.00	0.00	0.00	0.01	0.00	3.40	2.00	0.00	0.00	0.01	0.00
3.41	2.00	0.00	0.00	0.01	0.00	3.42	2.00	0.00	0.00	0.01	0.00
3.43	2.00	0.00	0.00	0.01	0.00	3.44	2.00	0.00	0.00	0.01	0.00
3.45	2.00	0.00	0.00	0.01	0.00	3.46	2.00	0.00	0.00	0.01	0.00
3.47	2.00	0.00	0.00	0.01	0.00	3.48	2.00	0.00	0.00	0.01	0.00
3.49	2.00	0.00	0.00	0.01	0.00	3.50	2.00	0.00	0.00	0.01	0.00
3.51	2.00	0.00	0.00	0.01	0.00	3.52	2.00	0.00	0.00	0.01	0.00
3.53	2.00	0.00	0.00	0.01	0.00	3.54	2.00	0.00	0.00	0.01	0.00
3.55	2.00	0.00	0.00	0.01	0.00	3.56	2.00	0.00	0.00	0.01	0.00
3.57	2.00	0.00	0.00	0.01	0.00	3.58	2.00	0.00	0.00	0.01	0.00
3.59	2.00	0.00	0.00	0.01	0.00	3.60	2.00	0.00	0.00	0.01	0.00
3.61	2.00	0.00	0.00	0.01	0.00	3.62	2.00	0.00	0.00	0.01	0.00
3.63	2.00	0.00	0.00	0.01	0.00	3.64	2.00	0.00	0.00	0.01	0.00
3.65	2.00	0.00	0.00	0.01	0.00	3.66	2.00	0.00	0.00	0.01	0.00
3.67	2.00	0.00	0.00	0.01	0.00	3.68	2.00	0.00	0.00	0.01	0.00
3.69	2.00	0.00	0.00	0.01	0.00	3.70	2.00	0.00	0.00	0.01	0.00
3.71	2.00	0.00	0.00	0.01	0.00	3.72	2.00	0.00	0.00	0.01	0.00
3.73	2.00	0.00	0.00	0.01	0.00	3.74	2.00	0.00	0.00	0.01	0.00
3.75	2.00	0.00	0.00	0.01	0.00	3.76	2.00	0.00	0.00	0.01	0.00
3.77	2.00	0.00	0.00	0.01	0.00	3.78	2.00	0.00	0.00	0.01	0.00
3.79	2.00	0.00	0.00	0.01	0.00	3.80	2.00	0.00	0.00	0.01	0.00
3.81	2.00	0.00	0.00	0.01	0.00	3.82	2.00	0.00	0.00	0.01	0.00
3.83	2.00	0.00	0.00	0.01	0.00	3.84	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.85	2.00	0.00	0.00	0.01	0.00	3.86	2.00	0.00	0.00	0.01	0.00
3.87	2.00	0.00	0.00	0.01	0.00	3.88	2.00	0.00	0.00	0.01	0.00
3.89	2.00	0.00	0.00	0.01	0.00	3.90	2.00	0.00	0.00	0.01	0.00
3.91	2.00	0.00	0.00	0.01	0.00	3.92	2.00	0.00	0.00	0.01	0.00
3.93	2.00	0.00	0.00	0.01	0.00	3.94	2.00	0.00	0.00	0.01	0.00
3.95	2.00	0.00	0.00	0.01	0.00	3.96	2.00	0.00	0.00	0.01	0.00
3.97	2.00	0.00	0.00	0.01	0.00	3.98	2.00	0.00	0.00	0.01	0.00
3.99	2.00	0.00	0.00	0.01	0.00	4.00	2.00	0.00	0.00	0.01	0.00
4.01	2.00	0.00	0.00	0.01	0.00	4.02	2.00	0.00	0.00	0.01	0.00
4.03	2.00	0.00	0.00	0.01	0.00	4.04	2.00	0.00	0.00	0.01	0.00
4.05	2.00	0.00	0.00	0.01	0.00	4.06	2.00	0.00	0.00	0.01	0.00
4.07	2.00	0.00	0.00	0.01	0.00	4.08	2.00	0.00	0.00	0.01	0.00
4.09	2.00	0.00	0.00	0.01	0.00	4.10	2.00	0.00	0.00	0.01	0.00
4.11	2.00	0.00	0.00	0.01	0.00	4.12	2.00	0.00	0.00	0.01	0.00
4.13	2.00	0.00	0.00	0.01	0.00	4.14	2.00	0.00	0.00	0.01	0.00
4.15	2.00	0.00	0.00	0.01	0.00	4.16	2.00	0.00	0.00	0.01	0.00
4.17	2.00	0.00	0.00	0.01	0.00	4.18	2.00	0.00	0.00	0.01	0.00
4.19	2.00	0.00	0.00	0.01	0.00	4.20	2.00	0.00	0.00	0.01	0.00
4.21	2.00	0.00	0.00	0.01	0.00	4.22	2.00	0.00	0.00	0.01	0.00
4.23	2.00	0.00	0.00	0.01	0.00	4.24	2.00	0.00	0.00	0.01	0.00
4.25	2.00	0.00	0.00	0.01	0.00	4.26	2.00	0.00	0.00	0.01	0.00
4.27	2.00	0.00	0.00	0.01	0.00	4.28	2.00	0.00	0.00	0.01	0.00
4.29	2.00	0.00	0.00	0.01	0.00	4.30	2.00	0.00	0.00	0.01	0.00
4.31	2.00	0.00	0.00	0.01	0.00	4.32	2.00	0.00	0.00	0.01	0.00
4.33	2.00	0.00	0.00	0.01	0.00	4.34	2.00	0.00	0.00	0.01	0.00
4.35	2.00	0.00	0.00	0.01	0.00	4.36	2.00	0.00	0.00	0.01	0.00
4.37	2.00	0.00	0.00	0.01	0.00	4.38	2.00	0.00	0.00	0.01	0.00
4.39	2.00	0.00	0.00	0.01	0.00	4.40	2.00	0.00	0.00	0.01	0.00
4.41	2.00	0.00	0.00	0.01	0.00	4.42	2.00	0.00	0.00	0.01	0.00
4.43	2.00	0.00	0.00	0.01	0.00	4.44	2.00	0.00	0.00	0.01	0.00
4.45	2.00	0.00	0.00	0.01	0.00	4.46	2.00	0.00	0.00	0.01	0.00
4.47	2.00	0.00	0.00	0.01	0.00	4.48	2.00	0.00	0.00	0.01	0.00
4.49	2.00	0.00	0.00	0.01	0.00	4.50	2.00	0.00	0.00	0.01	0.00
4.51	2.00	0.00	0.00	0.01	0.00	4.52	2.00	0.00	0.00	0.01	0.00
4.53	2.00	0.00	0.00	0.01	0.00	4.54	2.00	0.00	0.00	0.01	0.00
4.55	2.00	0.00	0.00	0.01	0.00	4.56	2.00	0.00	0.00	0.01	0.00
4.57	2.00	0.00	0.00	0.01	0.00	4.58	2.00	0.00	0.00	0.01	0.00
4.59	2.00	0.00	0.00	0.01	0.00	4.60	2.00	0.00	0.00	0.01	0.00
4.61	2.00	0.00	0.00	0.01	0.00	4.62	2.00	0.00	0.00	0.01	0.00
4.63	2.00	0.00	0.00	0.01	0.00	4.64	2.00	0.00	0.00	0.01	0.00
4.65	2.00	0.00	0.00	0.01	0.00	4.66	2.00	0.00	0.00	0.01	0.00
4.67	2.00	0.00	0.00	0.01	0.00	4.68	2.00	0.00	0.00	0.01	0.00
4.69	2.00	0.00	0.00	0.01	0.00	4.70	2.00	0.00	0.00	0.01	0.00
4.71	2.00	0.00	0.00	0.01	0.00	4.72	2.00	0.00	0.00	0.01	0.00
4.73	2.00	0.00	0.00	0.01	0.00	4.74	2.00	0.00	0.00	0.01	0.00
4.75	2.00	0.00	0.00	0.01	0.00	4.76	2.00	0.00	0.00	0.01	0.00
4.77	2.00	0.00	0.00	0.01	0.00	4.78	2.00	0.00	0.00	0.01	0.00
4.79	2.00	0.00	0.00	0.01	0.00	4.80	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.81	2.00	0.00	0.00	0.01	0.00	4.82	2.00	0.00	0.00	0.01	0.00
4.83	2.00	0.00	0.00	0.01	0.00	4.84	2.00	0.00	0.00	0.01	0.00
4.85	2.00	0.00	0.00	0.01	0.00	4.86	2.00	0.00	0.00	0.01	0.00
4.87	2.00	0.00	0.00	0.01	0.00	4.88	2.00	0.00	0.00	0.01	0.00
4.89	2.00	0.00	0.00	0.01	0.00	4.90	2.00	0.00	0.00	0.01	0.00
4.91	2.00	0.00	0.00	0.01	0.00	4.92	2.00	0.00	0.00	0.01	0.00
4.93	2.00	0.00	0.00	0.01	0.00	4.94	2.00	0.00	0.00	0.01	0.00
4.95	2.00	0.00	0.00	0.01	0.00	4.96	2.00	0.00	0.00	0.01	0.00
4.97	2.00	0.00	0.00	0.01	0.00	4.98	2.00	0.00	0.00	0.01	0.00
4.99	2.00	0.00	0.00	0.01	0.00	5.00	2.00	0.00	0.00	0.01	0.00
5.01	2.00	0.00	0.00	0.01	0.00	5.02	2.00	0.00	0.00	0.01	0.00
5.03	2.00	0.00	0.00	0.01	0.00	5.04	2.00	0.00	0.00	0.01	0.00
5.05	2.00	0.00	0.00	0.01	0.00	5.06	2.00	0.00	0.00	0.01	0.00
5.07	2.00	0.00	0.00	0.01	0.00	5.08	2.00	0.00	0.00	0.01	0.00
5.09	2.00	0.00	0.00	0.01	0.00	5.10	2.00	0.00	0.00	0.01	0.00
5.11	2.00	0.00	0.00	0.01	0.00	5.12	2.00	0.00	0.00	0.01	0.00
5.13	2.00	0.00	0.00	0.01	0.00	5.14	2.00	0.00	0.00	0.01	0.00
5.15	2.00	0.00	0.00	0.01	0.00	5.16	2.00	0.00	0.00	0.01	0.00
5.17	2.00	0.00	0.00	0.01	0.00	5.18	2.00	0.00	0.00	0.01	0.00
5.19	2.00	0.00	0.00	0.01	0.00	5.20	2.00	0.00	0.00	0.01	0.00
5.21	2.00	0.00	0.00	0.01	0.00	5.22	2.00	0.00	0.00	0.01	0.00
5.23	2.00	0.00	0.00	0.01	0.00	5.24	2.00	0.00	0.00	0.01	0.00
5.25	2.00	0.00	0.00	0.01	0.00	5.26	2.00	0.00	0.00	0.01	0.00
5.27	2.00	0.00	0.00	0.01	0.00	5.28	2.00	0.00	0.00	0.01	0.00
5.29	2.00	0.00	0.00	0.01	0.00	5.30	2.00	0.00	0.00	0.01	0.00
5.31	2.00	0.00	0.00	0.01	0.00	5.32	2.00	0.00	0.00	0.01	0.00
5.33	2.00	0.00	0.00	0.01	0.00	5.34	2.00	0.00	0.00	0.01	0.00
5.35	2.00	0.00	0.00	0.01	0.00	5.36	2.00	0.00	0.00	0.01	0.00
5.37	2.00	0.00	0.00	0.01	0.00	5.38	2.00	0.00	0.00	0.01	0.00
5.39	2.00	0.00	0.00	0.01	0.00	5.40	2.00	0.00	0.00	0.01	0.00
5.41	2.00	0.00	0.00	0.01	0.00	5.42	2.00	0.00	0.00	0.01	0.00
5.43	2.00	0.00	0.00	0.01	0.00	5.44	2.00	0.00	0.00	0.01	0.00
5.45	2.00	0.00	0.00	0.01	0.00	5.46	2.00	0.00	0.00	0.01	0.00
5.47	2.00	0.00	0.00	0.01	0.00	5.48	2.00	0.00	0.00	0.01	0.00
5.49	2.00	0.00	0.00	0.01	0.00	5.50	2.00	0.00	0.00	0.01	0.00
5.51	2.00	0.00	0.00	0.01	0.00	5.52	2.00	0.00	0.00	0.01	0.00
5.53	2.00	0.00	0.00	0.01	0.00	5.54	2.00	0.00	0.00	0.01	0.00
5.55	2.00	0.00	0.00	0.01	0.00	5.56	2.00	0.00	0.00	0.01	0.00
5.57	2.00	0.00	0.00	0.01	0.00	5.58	2.00	0.00	0.00	0.01	0.00
5.59	2.00	0.00	0.00	0.01	0.00	5.60	2.00	0.00	0.00	0.01	0.00
5.61	2.00	0.00	0.00	0.01	0.00	5.62	2.00	0.00	0.00	0.01	0.00
5.63	2.00	0.00	0.00	0.01	0.00	5.64	2.00	0.00	0.00	0.01	0.00
5.65	2.00	0.00	0.00	0.01	0.00	5.66	2.00	0.00	0.00	0.01	0.00
5.67	2.00	0.00	0.00	0.01	0.00	5.68	2.00	0.00	0.00	0.01	0.00
5.69	2.00	0.00	0.00	0.01	0.00	5.70	2.00	0.00	0.00	0.01	0.00
5.71	2.00	0.00	0.00	0.01	0.00	5.72	2.00	0.00	0.00	0.01	0.00
5.73	2.00	0.00	0.00	0.01	0.00	5.74	2.00	0.00	0.00	0.01	0.00
5.75	2.00	0.00	0.00	0.01	0.00	5.76	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.77	2.00	0.00	0.00	0.01	0.00	5.78	2.00	0.00	0.00	0.01	0.00
5.79	2.00	0.00	0.00	0.01	0.00	5.80	2.00	0.00	0.00	0.01	0.00
5.81	2.00	0.00	0.00	0.01	0.00	5.82	2.00	0.00	0.00	0.01	0.00
5.83	2.00	0.00	0.00	0.01	0.00	5.84	2.00	0.00	0.00	0.01	0.00
5.85	2.00	0.00	0.00	0.01	0.00	5.86	2.00	0.00	0.00	0.01	0.00
5.87	2.00	0.00	0.00	0.01	0.00	5.88	2.00	0.00	0.00	0.01	0.00
5.89	2.00	0.00	0.00	0.01	0.00	5.90	2.00	0.00	0.00	0.01	0.00
5.91	2.00	0.00	0.00	0.01	0.00	5.92	2.00	0.00	0.00	0.01	0.00
5.93	2.00	0.00	0.00	0.01	0.00	5.94	2.00	0.00	0.00	0.01	0.00
5.95	2.00	0.00	0.00	0.01	0.00	5.96	2.00	0.00	0.00	0.01	0.00
5.97	2.00	0.00	0.00	0.01	0.00	5.98	2.00	0.00	0.00	0.01	0.00
5.99	2.00	0.00	0.00	0.01	0.00	6.00	2.00	0.00	0.00	0.01	0.00
6.01	2.00	0.00	0.00	0.01	0.00	6.02	2.00	0.00	0.00	0.01	0.00
6.03	2.00	0.00	0.00	0.01	0.00	6.04	2.00	0.00	0.00	0.01	0.00
6.05	2.00	0.00	0.00	0.01	0.00	6.06	2.00	0.00	0.00	0.01	0.00
6.07	2.00	0.00	0.00	0.01	0.00	6.08	2.00	0.00	0.00	0.01	0.00
6.09	2.00	0.00	0.00	0.01	0.00	6.10	2.00	0.00	0.00	0.01	0.00
6.11	2.00	0.00	0.00	0.01	0.00	6.12	2.00	0.00	0.00	0.01	0.00
6.13	2.00	0.00	0.00	0.01	0.00	6.14	2.00	0.00	0.00	0.01	0.00
6.15	2.00	0.00	0.00	0.01	0.00	6.16	2.00	0.00	0.00	0.01	0.00
6.17	2.00	0.00	0.00	0.01	0.00	6.18	2.00	0.00	0.00	0.01	0.00
6.19	2.00	0.00	0.00	0.01	0.00	6.20	2.00	0.00	0.00	0.01	0.00
6.21	2.00	0.00	0.00	0.01	0.00	6.22	2.00	0.00	0.00	0.01	0.00
6.23	2.00	0.00	0.00	0.01	0.00	6.24	2.00	0.00	0.00	0.01	0.00
6.25	2.00	0.00	0.00	0.01	0.00	6.26	2.00	0.00	0.00	0.01	0.00
6.27	2.00	0.00	0.00	0.01	0.00	6.28	2.00	0.00	0.00	0.01	0.00
6.29	2.00	0.00	0.00	0.01	0.00	6.30	2.00	0.00	0.00	0.01	0.00
6.31	2.00	0.00	0.00	0.01	0.00	6.32	2.00	0.00	0.00	0.01	0.00
6.33	2.00	0.00	0.00	0.01	0.00	6.34	2.00	0.00	0.00	0.01	0.00
6.35	2.00	0.00	0.00	0.01	0.00	6.36	2.00	0.00	0.00	0.01	0.00
6.37	2.00	0.00	0.00	0.01	0.00	6.38	2.00	0.00	0.00	0.01	0.00
6.39	2.00	0.00	0.00	0.01	0.00	6.40	2.00	0.00	0.00	0.01	0.00
6.41	2.00	0.00	0.00	0.01	0.00	6.42	2.00	0.00	0.00	0.01	0.00
6.43	2.00	0.00	0.00	0.01	0.00	6.44	2.00	0.00	0.00	0.01	0.00
6.45	2.00	0.00	0.00	0.01	0.00	6.46	2.00	0.00	0.00	0.01	0.00
6.47	2.00	0.00	0.00	0.01	0.00	6.48	2.00	0.00	0.00	0.01	0.00
6.49	2.00	0.00	0.00	0.01	0.00	6.50	2.00	0.00	0.00	0.01	0.00
6.51	2.00	0.00	0.00	0.01	0.00	6.52	2.00	0.00	0.00	0.01	0.00
6.53	2.00	0.00	0.00	0.01	0.00	6.54	2.00	0.00	0.00	0.01	0.00
6.55	2.00	0.00	0.00	0.01	0.00	6.56	2.00	0.00	0.00	0.01	0.00
6.57	2.00	0.00	0.00	0.01	0.00	6.58	2.00	0.00	0.00	0.01	0.00
6.59	2.00	0.00	0.00	0.01	0.00	6.60	2.00	0.00	0.00	0.01	0.00
6.61	2.00	0.00	0.00	0.01	0.00	6.62	2.00	0.00	0.00	0.01	0.00
6.63	2.00	0.00	0.00	0.01	0.00	6.64	2.00	0.00	0.00	0.01	0.00
6.65	2.00	0.00	0.00	0.01	0.00	6.66	2.00	0.00	0.00	0.01	0.00
6.67	2.00	0.00	0.00	0.01	0.00	6.68	2.00	0.00	0.00	0.01	0.00
6.69	2.00	0.00	0.00	0.01	0.00	6.70	2.00	0.00	0.00	0.01	0.00
6.71	2.00	0.00	0.00	0.01	0.00	6.72	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.73	2.00	0.00	0.00	0.01	0.00	6.74	2.00	0.00	0.00	0.01	0.00
6.75	2.00	0.00	0.00	0.01	0.00	6.76	2.00	0.00	0.00	0.01	0.00
6.77	2.00	0.00	0.00	0.01	0.00	6.78	2.00	0.00	0.00	0.01	0.00
6.79	2.00	0.00	0.00	0.01	0.00	6.80	2.00	0.00	0.00	0.01	0.00
6.81	2.00	0.00	0.00	0.01	0.00	6.82	2.00	0.00	0.00	0.01	0.00
6.83	2.00	0.00	0.00	0.01	0.00	6.84	2.00	0.00	0.00	0.01	0.00
6.85	2.00	0.00	0.00	0.01	0.00	6.86	2.00	0.00	0.00	0.01	0.00
6.87	2.00	0.00	0.00	0.01	0.00	6.88	2.00	0.00	0.00	0.01	0.00
6.89	2.00	0.00	0.00	0.01	0.00	6.90	2.00	0.00	0.00	0.01	0.00
6.91	2.00	0.00	0.00	0.01	0.00	6.92	2.00	0.00	0.00	0.01	0.00
6.93	2.00	0.00	0.00	0.01	0.00	6.94	2.00	0.00	0.00	0.01	0.00
6.95	2.00	0.00	0.00	0.01	0.00	6.96	2.00	0.00	0.00	0.01	0.00
6.97	2.00	0.00	0.00	0.01	0.00	6.98	2.00	0.00	0.00	0.01	0.00
6.99	2.00	0.00	0.00	0.01	0.00	7.00	2.00	0.00	0.00	0.01	0.00
7.01	2.00	0.00	0.00	0.01	0.00	7.02	2.00	0.00	0.00	0.01	0.00
7.03	2.00	0.00	0.00	0.01	0.00	7.04	2.00	0.00	0.00	0.01	0.00
7.05	2.00	0.00	0.00	0.01	0.00	7.06	2.00	0.00	0.00	0.01	0.00
7.07	2.00	0.00	0.00	0.01	0.00	7.08	2.00	0.00	0.00	0.01	0.00
7.09	2.00	0.00	0.00	0.01	0.00	7.10	2.00	0.00	0.00	0.01	0.00
7.11	2.00	0.00	0.00	0.01	0.00	7.12	2.00	0.00	0.00	0.01	0.00
7.13	2.00	0.00	0.00	0.01	0.00	7.14	2.00	0.00	0.00	0.01	0.00
7.15	2.00	0.00	0.00	0.01	0.00	7.16	2.00	0.00	0.00	0.01	0.00
7.17	2.00	0.00	0.00	0.01	0.00	7.18	2.00	0.00	0.00	0.01	0.00
7.19	2.00	0.00	0.00	0.01	0.00	7.20	2.00	0.00	0.00	0.01	0.00
7.21	2.00	0.00	0.00	0.01	0.00	7.22	2.00	0.00	0.00	0.01	0.00
7.23	2.00	0.00	0.00	0.01	0.00	7.24	2.00	0.00	0.00	0.01	0.00
7.25	2.00	0.00	0.00	0.01	0.00	7.26	2.00	0.00	0.00	0.01	0.00
7.27	2.00	0.00	0.00	0.01	0.00	7.28	2.00	0.00	0.00	0.01	0.00
7.29	2.00	0.00	0.00	0.01	0.00	7.30	2.00	0.00	0.00	0.01	0.00
7.31	2.00	0.00	0.00	0.01	0.00	7.32	2.00	0.00	0.00	0.01	0.00
7.33	2.00	0.00	0.00	0.01	0.00	7.34	2.00	0.00	0.00	0.01	0.00
7.35	2.00	0.00	0.00	0.01	0.00	7.36	2.00	0.00	0.00	0.01	0.00
7.37	2.00	0.00	0.00	0.01	0.00	7.38	2.00	0.00	0.00	0.01	0.00
7.39	2.00	0.00	0.00	0.01	0.00	7.40	2.00	0.00	0.00	0.01	0.00
7.41	2.00	0.00	0.00	0.01	0.00	7.42	2.00	0.00	0.00	0.01	0.00
7.43	2.00	0.00	0.00	0.01	0.00	7.44	2.00	0.00	0.00	0.01	0.00
7.45	2.00	0.00	0.00	0.01	0.00	7.46	2.00	0.00	0.00	0.01	0.00
7.47	2.00	0.00	0.00	0.01	0.00	7.48	2.00	0.00	0.00	0.01	0.00
7.49	2.00	0.00	0.00	0.01	0.00	7.50	2.00	0.00	0.00	0.01	0.00
7.51	2.00	0.00	0.00	0.01	0.00	7.52	2.00	0.00	0.00	0.01	0.00
7.53	2.00	0.00	0.00	0.01	0.00	7.54	2.00	0.00	0.00	0.01	0.00
7.55	2.00	0.00	0.00	0.01	0.00	7.56	2.00	0.00	0.00	0.01	0.00
7.57	2.00	0.00	0.00	0.01	0.00	7.58	2.00	0.00	0.00	0.01	0.00
7.59	2.00	0.00	0.00	0.01	0.00	7.60	2.00	0.00	0.00	0.01	0.00
7.61	2.00	0.00	0.00	0.01	0.00	7.62	2.00	0.00	0.00	0.01	0.00
7.63	2.00	0.00	0.00	0.01	0.00	7.64	2.00	0.00	0.00	0.01	0.00
7.65	2.00	0.00	0.00	0.01	0.00	7.66	2.00	0.00	0.00	0.01	0.00
7.67	2.00	0.00	0.00	0.01	0.00	7.68	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.69	2.00	0.00	0.00	0.01	0.00	7.70	2.00	0.00	0.00	0.01	0.00
7.71	2.00	0.00	0.00	0.01	0.00	7.72	2.00	0.00	0.00	0.01	0.00
7.73	2.00	0.00	0.00	0.01	0.00	7.74	2.00	0.00	0.00	0.01	0.00
7.75	2.00	0.00	0.00	0.01	0.00	7.76	2.00	0.00	0.00	0.01	0.00
7.77	2.00	0.00	0.00	0.01	0.00	7.78	2.00	0.00	0.00	0.01	0.00
7.79	2.00	0.00	0.00	0.01	0.00	7.80	2.00	0.00	0.00	0.01	0.00
7.81	2.00	0.00	0.00	0.01	0.00	7.82	2.00	0.00	0.00	0.01	0.00
7.83	2.00	0.00	0.00	0.01	0.00	7.84	2.00	0.00	0.00	0.01	0.00
7.85	2.00	0.00	0.00	0.01	0.00	7.86	2.00	0.00	0.00	0.01	0.00
7.87	2.00	0.00	0.00	0.01	0.00	7.88	2.00	0.00	0.00	0.01	0.00
7.89	2.00	0.00	0.00	0.01	0.00	7.90	2.00	0.00	0.00	0.01	0.00
7.91	2.00	0.00	0.00	0.01	0.00	7.92	2.00	0.00	0.00	0.01	0.00
7.93	2.00	0.00	0.00	0.01	0.00	7.94	2.00	0.00	0.00	0.01	0.00
7.95	2.00	0.00	0.00	0.01	0.00	7.96	2.00	0.00	0.00	0.01	0.00
7.97	2.00	0.00	0.00	0.01	0.00	7.98	2.00	0.00	0.00	0.01	0.00
7.99	2.00	0.00	0.00	0.01	0.00	8.00	2.00	0.00	0.00	0.01	0.00
8.01	2.00	0.00	0.00	0.01	0.00	8.02	2.00	0.00	0.00	0.01	0.00
8.03	2.00	0.00	0.00	0.01	0.00	8.04	2.00	0.00	0.00	0.01	0.00
8.05	2.00	0.00	0.00	0.01	0.00	8.06	2.00	0.00	0.00	0.01	0.00
8.07	2.00	0.00	0.00	0.01	0.00	8.08	2.00	0.00	0.00	0.01	0.00
8.09	2.00	0.00	0.00	0.01	0.00	8.10	2.00	0.00	0.00	0.01	0.00
8.11	2.00	0.00	0.00	0.01	0.00	8.12	2.00	0.00	0.00	0.01	0.00
8.13	2.00	0.00	0.00	0.01	0.00	8.14	2.00	0.00	0.00	0.01	0.00
8.15	2.00	0.00	0.00	0.01	0.00	8.16	2.00	0.00	0.00	0.01	0.00
8.17	2.00	0.00	0.00	0.01	0.00	8.18	2.00	0.00	0.00	0.01	0.00
8.19	2.00	0.00	0.00	0.01	0.00	8.20	2.00	0.00	0.00	0.01	0.00
8.21	2.00	0.00	0.00	0.01	0.00	8.22	2.00	0.00	0.00	0.01	0.00
8.23	2.00	0.00	0.00	0.01	0.00	8.24	2.00	0.00	0.00	0.01	0.00
8.25	2.00	0.00	0.00	0.01	0.00	8.26	2.00	0.00	0.00	0.01	0.00
8.27	2.00	0.00	0.00	0.01	0.00	8.28	2.00	0.00	0.00	0.01	0.00
8.29	2.00	0.00	0.00	0.01	0.00	8.30	2.00	0.00	0.00	0.01	0.00
8.31	2.00	0.00	0.00	0.01	0.00	8.32	2.00	0.00	0.00	0.01	0.00
8.33	2.00	0.00	0.00	0.01	0.00	8.34	2.00	0.00	0.00	0.01	0.00
8.35	2.00	0.00	0.00	0.01	0.00	8.36	2.00	0.00	0.00	0.01	0.00
8.37	2.00	0.00	0.00	0.01	0.00	8.38	2.00	0.00	0.00	0.01	0.00
8.39	2.00	0.00	0.00	0.01	0.00	8.40	2.00	0.00	0.00	0.01	0.00
8.41	2.00	0.00	0.00	0.01	0.00	8.42	2.00	0.00	0.00	0.01	0.00
8.43	2.00	0.00	0.00	0.01	0.00	8.44	2.00	0.00	0.00	0.01	0.00
8.45	2.00	0.00	0.00	0.01	0.00	8.46	2.00	0.00	0.00	0.01	0.00
8.47	2.00	0.00	0.00	0.01	0.00	8.48	2.00	0.00	0.00	0.01	0.00
8.49	2.00	0.00	0.00	0.01	0.00	8.50	2.00	0.00	0.00	0.01	0.00
8.51	2.00	0.00	0.00	0.01	0.00	8.52	2.00	0.00	0.00	0.01	0.00
8.53	2.00	0.00	0.00	0.01	0.00	8.54	2.00	0.00	0.00	0.01	0.00
8.55	2.00	0.00	0.00	0.01	0.00	8.56	2.00	0.00	0.00	0.01	0.00
8.57	2.00	0.00	0.00	0.01	0.00	8.58	2.00	0.00	0.00	0.01	0.00
8.59	2.00	0.00	0.00	0.01	0.00	8.60	2.00	0.00	0.00	0.01	0.00
8.61	2.00	0.00	0.00	0.01	0.00	8.62	2.00	0.00	0.00	0.01	0.00
8.63	2.00	0.00	0.00	0.01	0.00	8.64	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.65	2.00	0.00	0.00	0.01	0.00	8.66	2.00	0.00	0.00	0.01	0.00
8.67	2.00	0.00	0.00	0.01	0.00	8.68	2.00	0.00	0.00	0.01	0.00
8.69	2.00	0.00	0.00	0.01	0.00	8.70	2.00	0.00	0.00	0.01	0.00
8.71	2.00	0.00	0.00	0.01	0.00	8.72	2.00	0.00	0.00	0.01	0.00
8.73	2.00	0.00	0.00	0.01	0.00	8.74	2.00	0.00	0.00	0.01	0.00
8.75	2.00	0.00	0.00	0.01	0.00	8.76	2.00	0.00	0.00	0.01	0.00
8.77	2.00	0.00	0.00	0.01	0.00	8.78	2.00	0.00	0.00	0.01	0.00
8.79	2.00	0.00	0.00	0.01	0.00	8.80	2.00	0.00	0.00	0.01	0.00
8.81	2.00	0.00	0.00	0.01	0.00	8.82	2.00	0.00	0.00	0.01	0.00
8.83	2.00	0.00	0.00	0.01	0.00	8.84	2.00	0.00	0.00	0.01	0.00
8.85	2.00	0.00	0.00	0.01	0.00	8.86	2.00	0.00	0.00	0.01	0.00
8.87	2.00	0.00	0.00	0.01	0.00	8.88	2.00	0.00	0.00	0.01	0.00
8.89	2.00	0.00	0.00	0.01	0.00	8.90	2.00	0.00	0.00	0.01	0.00
8.91	2.00	0.00	0.00	0.01	0.00	8.92	2.00	0.00	0.00	0.01	0.00
8.93	2.00	0.00	0.00	0.01	0.00	8.94	2.00	0.00	0.00	0.01	0.00
8.95	2.00	0.00	0.00	0.01	0.00	8.96	2.00	0.00	0.00	0.01	0.00
8.97	2.00	0.00	0.00	0.01	0.00	8.98	2.00	0.00	0.00	0.01	0.00
8.99	2.00	0.00	0.00	0.01	0.00	9.00	2.00	0.00	0.00	0.01	0.00
9.01	2.00	0.00	0.00	0.01	0.00	9.02	2.00	0.00	0.00	0.01	0.00
9.03	2.00	0.00	0.00	0.01	0.00	9.04	2.00	0.00	0.00	0.01	0.00
9.05	2.00	0.00	0.00	0.01	0.00	9.06	2.00	0.00	0.00	0.01	0.00
9.07	2.00	0.00	0.00	0.01	0.00	9.08	2.00	0.00	0.00	0.01	0.00
9.09	2.00	0.00	0.00	0.01	0.00	9.10	2.00	0.00	0.00	0.01	0.00
9.11	2.00	0.00	0.00	0.01	0.00	9.12	2.00	0.00	0.00	0.01	0.00
9.13	2.00	0.00	0.00	0.01	0.00	9.14	2.00	0.00	0.00	0.01	0.00
9.15	2.00	0.00	0.00	0.01	0.00	9.16	2.00	0.00	0.00	0.01	0.00
9.17	2.00	0.00	0.00	0.01	0.00	9.18	2.00	0.00	0.00	0.01	0.00
9.19	2.00	0.00	0.00	0.01	0.00	9.20	2.00	0.00	0.00	0.01	0.00
9.21	2.00	0.00	0.00	0.01	0.00	9.22	2.00	0.00	0.00	0.01	0.00
9.23	2.00	0.00	0.00	0.01	0.00	9.24	2.00	0.00	0.00	0.01	0.00
9.25	2.00	0.00	0.00	0.01	0.00	9.26	2.00	0.00	0.00	0.01	0.00
9.27	2.00	0.00	0.00	0.01	0.00	9.28	2.00	0.00	0.00	0.01	0.00
9.29	2.00	0.00	0.00	0.01	0.00	9.30	2.00	0.00	0.00	0.01	0.00
9.31	2.00	0.00	0.00	0.01	0.00	9.32	2.00	0.00	0.00	0.01	0.00
9.33	2.00	0.00	0.00	0.01	0.00	9.34	2.00	0.00	0.00	0.01	0.00
9.35	2.00	0.00	0.00	0.01	0.00	9.36	2.00	0.00	0.00	0.01	0.00
9.37	2.00	0.00	0.00	0.01	0.00	9.38	2.00	0.00	0.00	0.01	0.00
9.39	2.00	0.00	0.00	0.01	0.00	9.40	2.00	0.00	0.00	0.01	0.00
9.41	2.00	0.00	0.00	0.01	0.00	9.42	2.00	0.00	0.00	0.01	0.00
9.43	2.00	0.00	0.00	0.01	0.00	9.44	2.00	0.00	0.00	0.01	0.00
9.45	2.00	0.00	0.00	0.01	0.00	9.46	2.00	0.00	0.00	0.01	0.00
9.47	2.00	0.00	0.00	0.01	0.00	9.48	2.00	0.00	0.00	0.01	0.00
9.49	2.00	0.00	0.00	0.01	0.00	9.50	2.00	0.00	0.00	0.01	0.00
9.51	2.00	0.00	0.00	0.01	0.00	9.52	2.00	0.00	0.00	0.01	0.00
9.53	2.00	0.00	0.00	0.01	0.00	9.54	2.00	0.00	0.00	0.01	0.00
9.55	2.00	0.00	0.00	0.01	0.00	9.56	2.00	0.00	0.00	0.01	0.00
9.57	2.00	0.00	0.00	0.01	0.00	9.58	2.00	0.00	0.00	0.01	0.00
9.59	2.00	0.00	0.00	0.01	0.00	9.60	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.61	2.00	0.00	0.00	0.01	0.00	9.62	2.00	0.00	0.00	0.01	0.00
9.63	2.00	0.00	0.00	0.01	0.00	9.64	2.00	0.00	0.00	0.01	0.00
9.65	2.00	0.00	0.00	0.01	0.00	9.66	2.00	0.00	0.00	0.01	0.00
9.67	2.00	0.00	0.00	0.01	0.00	9.68	2.00	0.00	0.00	0.01	0.00
9.69	2.00	0.00	0.00	0.01	0.00	9.70	2.00	0.00	0.00	0.01	0.00
9.71	2.00	0.00	0.00	0.01	0.00	9.72	2.00	0.00	0.00	0.01	0.00
9.73	2.00	0.00	0.00	0.01	0.00	9.74	2.00	0.00	0.00	0.01	0.00
9.75	2.00	0.00	0.00	0.01	0.00	9.76	2.00	0.00	0.00	0.01	0.00
9.77	2.00	0.00	0.00	0.01	0.00	9.78	2.00	0.00	0.00	0.01	0.00
9.79	2.00	0.00	0.00	0.01	0.00	9.80	2.00	0.00	0.00	0.01	0.00
9.81	2.00	0.00	0.00	0.01	0.00	9.82	2.00	0.00	0.00	0.01	0.00
9.83	2.00	0.00	0.00	0.01	0.00	9.84	2.00	0.00	0.00	0.01	0.00
9.85	2.00	0.00	0.00	0.01	0.00	9.86	2.00	0.00	0.00	0.01	0.00
9.87	2.00	0.00	0.00	0.01	0.00	9.88	2.00	0.00	0.00	0.01	0.00
9.89	2.00	0.00	0.00	0.01	0.00	9.90	2.00	0.00	0.00	0.01	0.00
9.91	2.00	0.00	0.00	0.01	0.00	9.92	2.00	0.00	0.00	0.01	0.00
9.93	2.00	0.00	0.00	0.01	0.00	9.94	2.00	0.00	0.00	0.01	0.00
9.95	2.00	0.00	0.00	0.01	0.00	9.96	2.00	0.00	0.00	0.01	0.00
9.97	2.00	0.00	0.00	0.01	0.00	9.98	2.00	0.00	0.00	0.01	0.00
9.99	2.00	0.00	0.00	0.01	0.00	10.00	2.00	0.00	0.00	0.01	0.00
10.01	2.00	0.00	0.00	0.01	0.00	10.02	2.00	0.00	0.00	0.01	0.00
10.03	2.00	0.00	0.00	0.01	0.00	10.04	2.00	0.00	0.00	0.01	0.00
10.05	2.00	0.00	0.00	0.01	0.00	10.06	2.00	0.00	0.00	0.01	0.00
10.07	2.00	0.00	0.00	0.01	0.00	10.08	2.00	0.00	0.00	0.01	0.00
10.09	2.00	0.00	0.00	0.01	0.00	10.10	2.00	0.00	0.00	0.01	0.00
10.11	2.00	0.00	0.00	0.01	0.00	10.12	2.00	0.00	0.00	0.01	0.00
10.13	2.00	0.00	0.00	0.01	0.00	10.14	2.00	0.00	0.00	0.01	0.00
10.15	2.00	0.00	0.00	0.01	0.00	10.16	2.00	0.00	0.00	0.01	0.00
10.17	2.00	0.00	0.00	0.01	0.00	10.18	2.00	0.00	0.00	0.01	0.00
10.19	2.00	0.00	0.00	0.01	0.00	10.20	2.00	0.00	0.00	0.01	0.00
10.21	2.00	0.00	0.00	0.01	0.00	10.22	2.00	0.00	0.00	0.01	0.00
10.23	2.00	0.00	0.00	0.01	0.00	10.24	2.00	0.00	0.00	0.01	0.00
10.25	2.00	0.00	0.00	0.01	0.00	10.26	2.00	0.00	0.00	0.01	0.00
10.27	2.00	0.00	0.00	0.01	0.00	10.28	2.00	0.00	0.00	0.01	0.00
10.29	2.00	0.00	0.00	0.01	0.00	10.30	2.00	0.00	0.00	0.01	0.00
10.31	2.00	0.00	0.00	0.01	0.00	10.32	2.00	0.00	0.00	0.01	0.00
10.33	2.00	0.00	0.00	0.01	0.00	10.34	2.00	0.00	0.00	0.01	0.00
10.35	2.00	0.00	0.00	0.01	0.00	10.36	2.00	0.00	0.00	0.01	0.00
10.37	2.00	0.00	0.00	0.01	0.00	10.38	2.00	0.00	0.00	0.01	0.00
10.39	2.00	0.00	0.00	0.01	0.00	10.40	2.00	0.00	0.00	0.01	0.00
10.41	2.00	0.00	0.00	0.01	0.00	10.42	2.00	0.00	0.00	0.01	0.00
10.43	2.00	0.00	0.00	0.01	0.00	10.44	2.00	0.00	0.00	0.01	0.00
10.45	2.00	0.00	0.00	0.01	0.00	10.46	2.00	0.00	0.00	0.01	0.00
10.47	2.00	0.00	0.00	0.01	0.00	10.48	2.00	0.00	0.00	0.01	0.00
10.49	2.00	0.00	0.00	0.01	0.00	10.50	2.00	0.00	0.00	0.01	0.00
10.51	2.00	0.00	0.00	0.01	0.00	10.52	2.00	0.00	0.00	0.01	0.00
10.53	2.00	0.00	0.00	0.01	0.00	10.54	2.00	0.00	0.00	0.01	0.00
10.55	2.00	0.00	0.00	0.01	0.00	10.56	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.57	2.00	0.00	0.00	0.01	0.00	10.58	2.00	0.00	0.00	0.01	0.00
10.59	2.00	0.00	0.00	0.01	0.00	10.60	2.00	0.00	0.00	0.01	0.00
10.61	2.00	0.00	0.00	0.01	0.00	10.62	2.00	0.00	0.00	0.01	0.00
10.63	2.00	0.00	0.00	0.01	0.00	10.64	2.00	0.00	0.00	0.01	0.00
10.65	2.00	0.00	0.00	0.01	0.00	10.66	2.00	0.00	0.00	0.01	0.00
10.67	2.00	0.00	0.00	0.01	0.00	10.68	2.00	0.00	0.00	0.01	0.00
10.69	2.00	0.00	0.00	0.01	0.00	10.70	2.00	0.00	0.00	0.01	0.00
10.71	2.00	0.00	0.00	0.01	0.00	10.72	2.00	0.00	0.00	0.01	0.00
10.73	2.00	0.00	0.00	0.01	0.00	10.74	2.00	0.00	0.00	0.01	0.00
10.75	2.00	0.00	0.00	0.01	0.00	10.76	2.00	0.00	0.00	0.01	0.00
10.77	2.00	0.00	0.00	0.01	0.00	10.78	2.00	0.00	0.00	0.01	0.00
10.79	2.00	0.00	0.00	0.01	0.00	10.80	2.00	0.00	0.00	0.01	0.00
10.81	2.00	0.00	0.00	0.01	0.00	10.82	2.00	0.00	0.00	0.01	0.00
10.83	2.00	0.00	0.00	0.01	0.00	10.84	2.00	0.00	0.00	0.01	0.00
10.85	2.00	0.00	0.00	0.01	0.00	10.86	2.00	0.00	0.00	0.01	0.00
10.87	2.00	0.00	0.00	0.01	0.00	10.88	2.00	0.00	0.00	0.01	0.00
10.89	2.00	0.00	0.00	0.01	0.00	10.90	2.00	0.00	0.00	0.01	0.00
10.91	2.00	0.00	0.00	0.01	0.00	10.92	2.00	0.00	0.00	0.01	0.00
10.93	2.00	0.00	0.00	0.01	0.00	10.94	2.00	0.00	0.00	0.01	0.00
10.95	2.00	0.00	0.00	0.01	0.00	10.96	2.00	0.00	0.00	0.01	0.00
10.97	2.00	0.00	0.00	0.01	0.00	10.98	2.00	0.00	0.00	0.01	0.00
10.99	2.00	0.00	0.00	0.01	0.00	11.00	2.00	0.00	0.00	0.01	0.00
11.01	2.00	0.00	0.00	0.01	0.00	11.02	2.00	0.00	0.00	0.01	0.00
11.03	2.00	0.00	0.00	0.01	0.00	11.04	2.00	0.00	0.00	0.01	0.00
11.05	2.00	0.00	0.00	0.01	0.00	11.06	2.00	0.00	0.00	0.01	0.00
11.07	2.00	0.00	0.00	0.01	0.00	11.08	2.00	0.00	0.00	0.01	0.00
11.09	2.00	0.00	0.00	0.01	0.00	11.10	2.00	0.00	0.00	0.01	0.00
11.11	2.00	0.00	0.00	0.01	0.00	11.12	2.00	0.00	0.00	0.01	0.00
11.13	2.00	0.00	0.00	0.01	0.00	11.14	2.00	0.00	0.00	0.01	0.00
11.15	2.00	0.00	0.00	0.01	0.00	11.16	2.00	0.00	0.00	0.01	0.00
11.17	2.00	0.00	0.00	0.01	0.00	11.18	2.00	0.00	0.00	0.01	0.00
11.19	2.00	0.00	0.00	0.01	0.00	11.20	2.00	0.00	0.00	0.01	0.00
11.21	2.00	0.00	0.00	0.01	0.00	11.22	2.00	0.00	0.00	0.01	0.00
11.23	2.00	0.00	0.00	0.01	0.00	11.24	2.00	0.00	0.00	0.01	0.00
11.25	2.00	0.00	0.00	0.01	0.00	11.26	2.00	0.00	0.00	0.01	0.00
11.27	2.00	0.00	0.00	0.01	0.00	11.28	2.00	0.00	0.00	0.01	0.00
11.29	2.00	0.00	0.00	0.01	0.00	11.30	2.00	0.00	0.00	0.01	0.00
11.31	2.00	0.00	0.00	0.01	0.00	11.32	2.00	0.00	0.00	0.01	0.00
11.33	2.00	0.00	0.00	0.01	0.00	11.34	2.00	0.00	0.00	0.01	0.00
11.35	2.00	0.00	0.00	0.01	0.00	11.36	2.00	0.00	0.00	0.01	0.00
11.37	2.00	0.00	0.00	0.01	0.00	11.38	2.00	0.00	0.00	0.01	0.00
11.39	2.00	0.00	0.00	0.01	0.00	11.40	2.00	0.00	0.00	0.01	0.00
11.41	2.00	0.00	0.00	0.01	0.00	11.42	2.00	0.00	0.00	0.01	0.00
11.43	2.00	0.00	0.00	0.01	0.00	11.44	2.00	0.00	0.00	0.01	0.00
11.45	2.00	0.00	0.00	0.01	0.00	11.46	2.00	0.00	0.00	0.01	0.00
11.47	2.00	0.00	0.00	0.01	0.00	11.48	2.00	0.00	0.00	0.01	0.00
11.49	2.00	0.00	0.00	0.01	0.00	11.50	2.00	0.00	0.00	0.01	0.00
11.51	2.00	0.00	0.00	0.01	0.00	11.52	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.53	2.00	0.00	0.00	0.01	0.00	11.54	2.00	0.00	0.00	0.01	0.00
11.55	2.00	0.00	0.00	0.01	0.00	11.56	2.00	0.00	0.00	0.01	0.00
11.57	2.00	0.00	0.00	0.01	0.00	11.58	2.00	0.00	0.00	0.01	0.00
11.59	2.00	0.00	0.00	0.01	0.00	11.60	2.00	0.00	0.00	0.01	0.00
11.61	2.00	0.00	0.00	0.01	0.00	11.62	2.00	0.00	0.00	0.01	0.00
11.63	2.00	0.00	0.00	0.01	0.00	11.64	2.00	0.00	0.00	0.01	0.00
11.65	2.00	0.00	0.00	0.01	0.00	11.66	2.00	0.00	0.00	0.01	0.00
11.67	2.00	0.00	0.00	0.01	0.00	11.68	2.00	0.00	0.00	0.01	0.00
11.69	2.00	0.00	0.00	0.01	0.00	11.70	2.00	0.00	0.00	0.01	0.00
11.71	2.00	0.00	0.00	0.01	0.00	11.72	2.00	0.00	0.00	0.01	0.00
11.73	2.00	0.00	0.00	0.01	0.00	11.74	2.00	0.00	0.00	0.01	0.00
11.75	2.00	0.00	0.00	0.01	0.00	11.76	2.00	0.00	0.00	0.01	0.00
11.77	2.00	0.00	0.00	0.01	0.00	11.78	2.00	0.00	0.00	0.01	0.00
11.79	2.00	0.00	0.00	0.01	0.00	11.80	2.00	0.00	0.00	0.01	0.00
11.81	2.00	0.00	0.00	0.01	0.00	11.82	2.00	0.00	0.00	0.01	0.00
11.83	2.00	0.00	0.00	0.01	0.00	11.84	2.00	0.00	0.00	0.01	0.00
11.85	2.00	0.00	0.00	0.01	0.00	11.86	2.00	0.00	0.00	0.01	0.00
11.87	2.00	0.00	0.00	0.01	0.00	11.88	2.00	0.00	0.00	0.01	0.00
11.89	2.00	0.00	0.00	0.01	0.00	11.90	2.00	0.00	0.00	0.01	0.00
11.91	2.00	0.00	0.00	0.01	0.00	11.92	2.00	0.00	0.00	0.01	0.00
11.93	2.00	0.00	0.00	0.01	0.00	11.94	2.00	0.00	0.00	0.01	0.00
11.95	2.00	0.00	0.00	0.01	0.00	11.96	2.00	0.00	0.00	0.01	0.00
11.97	2.00	0.00	0.00	0.01	0.00	11.98	2.00	0.00	0.00	0.01	0.00
11.99	2.00	0.00	0.00	0.01	0.00	12.00	2.00	0.00	0.00	0.01	0.00
12.01	2.00	0.00	0.00	0.01	0.00	12.02	2.00	0.00	0.00	0.01	0.00
12.03	2.00	0.00	0.00	0.01	0.00	12.04	2.00	0.00	0.00	0.01	0.00
12.05	2.00	0.00	0.00	0.01	0.00	12.06	2.00	0.00	0.00	0.01	0.00
12.07	2.00	0.00	0.00	0.01	0.00	12.08	2.00	0.00	0.00	0.01	0.00
12.09	2.00	0.00	0.00	0.01	0.00	12.10	2.00	0.00	0.00	0.01	0.00
12.11	2.00	0.00	0.00	0.01	0.00	12.12	2.00	0.00	0.00	0.01	0.00
12.13	2.00	0.00	0.00	0.01	0.00	12.14	2.00	0.00	0.00	0.01	0.00
12.15	2.00	0.00	0.00	0.01	0.00	12.16	2.00	0.00	0.00	0.01	0.00
12.17	2.00	0.00	0.00	0.01	0.00	12.18	2.00	0.00	0.00	0.01	0.00
12.19	2.00	0.00	0.00	0.01	0.00	12.20	2.00	0.00	0.00	0.01	0.00
12.21	2.00	0.00	0.00	0.01	0.00	12.22	2.00	0.00	0.00	0.01	0.00
12.23	2.00	0.00	0.00	0.01	0.00	12.24	2.00	0.00	0.00	0.01	0.00
12.25	2.00	0.00	0.00	0.01	0.00	12.26	2.00	0.00	0.00	0.01	0.00
12.27	2.00	0.00	0.00	0.01	0.00	12.28	2.00	0.00	0.00	0.01	0.00
12.29	2.00	0.00	0.00	0.01	0.00	12.30	2.00	0.00	0.00	0.01	0.00
12.31	2.00	0.00	0.00	0.01	0.00	12.32	2.00	0.00	0.00	0.01	0.00
12.33	2.00	0.00	0.00	0.01	0.00	12.34	2.00	0.00	0.00	0.01	0.00
12.35	2.00	0.00	0.00	0.01	0.00	12.36	2.00	0.00	0.00	0.01	0.00
12.37	2.00	0.00	0.00	0.01	0.00	12.38	2.00	0.00	0.00	0.01	0.00
12.39	2.00	0.00	0.00	0.01	0.00	12.40	2.00	0.00	0.00	0.01	0.00
12.41	2.00	0.00	0.00	0.01	0.00	12.42	2.00	0.00	0.00	0.01	0.00
12.43	2.00	0.00	0.00	0.01	0.00	12.44	2.00	0.00	0.00	0.01	0.00
12.45	2.00	0.00	0.00	0.01	0.00	12.46	2.00	0.00	0.00	0.01	0.00
12.47	2.00	0.00	0.00	0.01	0.00	12.48	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.49	2.00	0.00	0.00	0.01	0.00	12.50	2.00	0.00	0.00	0.01	0.00
12.51	2.00	0.00	0.00	0.01	0.00	12.52	2.00	0.00	0.00	0.01	0.00
12.53	2.00	0.00	0.00	0.01	0.00	12.54	2.00	0.00	0.00	0.01	0.00
12.55	2.00	0.00	0.00	0.01	0.00	12.56	2.00	0.00	0.00	0.01	0.00
12.57	2.00	0.00	0.00	0.01	0.00	12.58	2.00	0.00	0.00	0.01	0.00
12.59	2.00	0.00	0.00	0.01	0.00	12.60	2.00	0.00	0.00	0.01	0.00
12.61	2.00	0.00	0.00	0.01	0.00	12.62	2.00	0.00	0.00	0.01	0.00
12.63	2.00	0.00	0.00	0.01	0.00	12.64	2.00	0.00	0.00	0.01	0.00
12.65	2.00	0.00	0.00	0.01	0.00	12.66	2.00	0.00	0.00	0.01	0.00
12.67	2.00	0.00	0.00	0.01	0.00	12.68	2.00	0.00	0.00	0.01	0.00
12.69	2.00	0.00	0.00	0.01	0.00	12.70	2.00	0.00	0.00	0.01	0.00
12.71	2.00	0.00	0.00	0.01	0.00	12.72	2.00	0.00	0.00	0.01	0.00
12.73	2.00	0.00	0.00	0.01	0.00	12.74	2.00	0.00	0.00	0.01	0.00
12.75	2.00	0.00	0.00	0.01	0.00	12.76	2.00	0.00	0.00	0.01	0.00
12.77	2.00	0.00	0.00	0.01	0.00	12.78	2.00	0.00	0.00	0.01	0.00
12.79	2.00	0.00	0.00	0.01	0.00	12.80	2.00	0.00	0.00	0.01	0.00
12.81	2.00	0.00	0.00	0.01	0.00	12.82	2.00	0.00	0.00	0.01	0.00
12.83	2.00	0.00	0.00	0.01	0.00	12.84	2.00	0.00	0.00	0.01	0.00
12.85	2.00	0.00	0.00	0.01	0.00	12.86	2.00	0.00	0.00	0.01	0.00
12.87	2.00	0.00	0.00	0.01	0.00	12.88	2.00	0.00	0.00	0.01	0.00
12.89	2.00	0.00	0.00	0.01	0.00	12.90	2.00	0.00	0.00	0.01	0.00
12.91	2.00	0.00	0.00	0.01	0.00	12.92	2.00	0.00	0.00	0.01	0.00
12.93	2.00	0.00	0.00	0.01	0.00	12.94	2.00	0.00	0.00	0.01	0.00
12.95	2.00	0.00	0.00	0.01	0.00	12.96	2.00	0.00	0.00	0.01	0.00
12.97	2.00	0.00	0.00	0.01	0.00	12.98	2.00	0.00	0.00	0.01	0.00
12.99	2.00	0.00	0.00	0.01	0.00	13.00	2.00	0.00	0.00	0.01	0.00
13.01	2.00	0.00	0.00	0.01	0.00	13.02	2.00	0.00	0.00	0.01	0.00
13.03	2.00	0.00	0.00	0.01	0.00	13.04	2.00	0.00	0.00	0.01	0.00
13.05	2.00	0.00	0.00	0.01	0.00	13.06	2.00	0.00	0.00	0.01	0.00
13.07	2.00	0.00	0.00	0.01	0.00	13.08	2.00	0.00	0.00	0.01	0.00
13.09	2.00	0.00	0.00	0.01	0.00	13.10	2.00	0.00	0.00	0.01	0.00
13.11	2.00	0.00	0.00	0.01	0.00	13.12	2.00	0.00	0.00	0.01	0.00
13.13	2.00	0.00	0.00	0.01	0.00	13.14	2.00	0.00	0.00	0.01	0.00
13.15	2.00	0.00	0.00	0.01	0.00	13.16	2.00	0.00	0.00	0.01	0.00
13.17	2.00	0.00	0.00	0.01	0.00	13.18	2.00	0.00	0.00	0.01	0.00
13.19	2.00	0.00	0.00	0.01	0.00	13.20	2.00	0.00	0.00	0.01	0.00
13.21	2.00	0.00	0.00	0.01	0.00	13.22	2.00	0.00	0.00	0.01	0.00
13.23	2.00	0.00	0.00	0.01	0.00	13.24	2.00	0.00	0.00	0.01	0.00
13.25	2.00	0.00	0.00	0.01	0.00	13.26	2.00	0.00	0.00	0.01	0.00
13.27	2.00	0.00	0.00	0.01	0.00	13.28	2.00	0.00	0.00	0.01	0.00
13.29	2.00	0.00	0.00	0.01	0.00	13.30	2.00	0.00	0.00	0.01	0.00
13.31	2.00	0.00	0.00	0.01	0.00	13.32	2.00	0.00	0.00	0.01	0.00
13.33	2.00	0.00	0.00	0.01	0.00	13.34	2.00	0.00	0.00	0.01	0.00
13.35	2.00	0.00	0.00	0.01	0.00	13.36	2.00	0.00	0.00	0.01	0.00
13.37	2.00	0.00	0.00	0.01	0.00	13.38	2.00	0.00	0.00	0.01	0.00
13.39	2.00	0.00	0.00	0.01	0.00	13.40	2.00	0.00	0.00	0.01	0.00
13.41	2.00	0.00	0.00	0.01	0.00	13.42	2.00	0.00	0.00	0.01	0.00
13.43	2.00	0.00	0.00	0.01	0.00	13.44	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.45	2.00	0.00	0.00	0.01	0.00	13.46	2.00	0.00	0.00	0.01	0.00
13.47	2.00	0.00	0.00	0.01	0.00	13.48	2.00	0.00	0.00	0.01	0.00
13.49	2.00	0.00	0.00	0.01	0.00	13.50	2.00	0.00	0.00	0.01	0.00
13.51	2.00	0.00	0.00	0.01	0.00	13.52	2.00	0.00	0.00	0.01	0.00
13.53	2.00	0.00	0.00	0.01	0.00	13.54	2.00	0.00	0.00	0.01	0.00
13.55	2.00	0.00	0.00	0.01	0.00	13.56	2.00	0.00	0.00	0.01	0.00
13.57	2.00	0.00	0.00	0.01	0.00	13.58	2.00	0.00	0.00	0.01	0.00
13.59	2.00	0.00	0.00	0.01	0.00	13.60	2.00	0.00	0.00	0.01	0.00
13.61	2.00	0.00	0.00	0.01	0.00	13.62	2.00	0.00	0.00	0.01	0.00
13.63	2.00	0.00	0.00	0.01	0.00	13.64	2.00	0.00	0.00	0.01	0.00
13.65	2.00	0.00	0.00	0.01	0.00	13.66	2.00	0.00	0.00	0.01	0.00
13.67	2.00	0.00	0.00	0.01	0.00	13.68	2.00	0.00	0.00	0.01	0.00
13.69	2.00	0.00	0.00	0.01	0.00	13.70	2.00	0.00	0.00	0.01	0.00
13.71	2.00	0.00	0.00	0.01	0.00	13.72	2.00	0.00	0.00	0.01	0.00
13.73	2.00	0.00	0.00	0.01	0.00	13.74	2.00	0.00	0.00	0.01	0.00
13.75	2.00	0.00	0.00	0.01	0.00	13.76	2.00	0.00	0.00	0.01	0.00
13.77	2.00	0.00	0.00	0.01	0.00	13.78	2.00	0.00	0.00	0.01	0.00
13.79	2.00	0.00	0.00	0.01	0.00	13.80	2.00	0.00	0.00	0.01	0.00
13.81	2.00	0.00	0.00	0.01	0.00	13.82	2.00	0.00	0.00	0.01	0.00
13.83	2.00	0.00	0.00	0.01	0.00	13.84	2.00	0.00	0.00	0.01	0.00
13.85	2.00	0.00	0.00	0.01	0.00	13.86	2.00	0.00	0.00	0.01	0.00
13.87	2.00	0.00	0.00	0.01	0.00	13.88	2.00	0.00	0.00	0.01	0.00
13.89	2.00	0.00	0.00	0.01	0.00	13.90	2.00	0.00	0.00	0.01	0.00
13.91	2.00	0.00	0.00	0.01	0.00	13.92	2.00	0.00	0.00	0.01	0.00
13.93	2.00	0.00	0.00	0.01	0.00	13.94	2.00	0.00	0.00	0.01	0.00
13.95	2.00	0.00	0.00	0.01	0.00	13.96	2.00	0.00	0.00	0.01	0.00
13.97	2.00	0.00	0.00	0.01	0.00	13.98	2.00	0.00	0.00	0.01	0.00
13.99	2.00	0.00	0.00	0.01	0.00	14.00	2.00	0.00	0.00	0.01	0.00
14.01	2.00	0.00	0.00	0.01	0.00	14.02	2.00	0.00	0.00	0.01	0.00
14.03	2.00	0.00	0.00	0.01	0.00	14.04	2.00	0.00	0.00	0.01	0.00
14.05	2.00	0.00	0.00	0.01	0.00	14.06	2.00	0.00	0.00	0.01	0.00
14.07	2.00	0.00	0.00	0.01	0.00	14.08	2.00	0.00	0.00	0.01	0.00
14.09	2.00	0.00	0.00	0.01	0.00	14.10	2.00	0.00	0.00	0.01	0.00
14.11	2.00	0.00	0.00	0.01	0.00	14.12	2.00	0.00	0.00	0.01	0.00
14.13	2.00	0.00	0.00	0.01	0.00	14.14	2.00	0.00	0.00	0.01	0.00
14.15	2.00	0.00	0.00	0.01	0.00	14.16	2.00	0.00	0.00	0.01	0.00
14.17	2.00	0.00	0.00	0.01	0.00	14.18	2.00	0.00	0.00	0.01	0.00
14.19	2.00	0.00	0.00	0.01	0.00	14.20	2.00	0.00	0.00	0.01	0.00
14.21	2.00	0.00	0.00	0.01	0.00	14.22	2.00	0.00	0.00	0.01	0.00
14.23	2.00	0.00	0.00	0.01	0.00	14.24	2.00	0.00	0.00	0.01	0.00
14.25	2.00	0.00	0.00	0.01	0.00	14.26	2.00	0.00	0.00	0.01	0.00
14.27	2.00	0.00	0.00	0.01	0.00	14.28	2.00	0.00	0.00	0.01	0.00
14.29	2.00	0.00	0.00	0.01	0.00	14.30	2.00	0.00	0.00	0.01	0.00
14.31	2.00	0.00	0.00	0.01	0.00	14.32	2.00	0.00	0.00	0.01	0.00
14.33	2.00	0.00	0.00	0.01	0.00	14.34	2.00	0.00	0.00	0.01	0.00
14.35	2.00	0.00	0.00	0.01	0.00	14.36	2.00	0.00	0.00	0.01	0.00
14.37	2.00	0.00	0.00	0.01	0.00	14.38	2.00	0.00	0.00	0.01	0.00
14.39	2.00	0.00	0.00	0.01	0.00	14.40	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.41	2.00	0.00	0.00	0.01	0.00	14.42	2.00	0.00	0.00	0.01	0.00
14.43	2.00	0.00	0.00	0.01	0.00	14.44	2.00	0.00	0.00	0.01	0.00
14.45	2.00	0.00	0.00	0.01	0.00	14.46	2.00	0.00	0.00	0.01	0.00
14.47	2.00	0.00	0.00	0.01	0.00	14.48	2.00	0.00	0.00	0.01	0.00
14.49	2.00	0.00	0.00	0.01	0.00	14.50	2.00	0.00	0.00	0.01	0.00
14.51	2.00	0.00	0.00	0.01	0.00	14.52	2.00	0.00	0.00	0.01	0.00
14.53	2.00	0.00	0.00	0.01	0.00	14.54	2.00	0.00	0.00	0.01	0.00
14.55	2.00	0.00	0.00	0.01	0.00	14.56	2.00	0.00	0.00	0.01	0.00
14.57	2.00	0.00	0.00	0.01	0.00	14.58	2.00	0.00	0.00	0.01	0.00
14.59	2.00	0.00	0.00	0.01	0.00	14.60	2.00	0.00	0.00	0.01	0.00
14.61	2.00	0.00	0.00	0.01	0.00	14.62	2.00	0.00	0.00	0.01	0.00
14.63	2.00	0.00	0.00	0.01	0.00	14.64	2.00	0.00	0.00	0.01	0.00
14.65	2.00	0.00	0.00	0.01	0.00	14.66	2.00	0.00	0.00	0.01	0.00
14.67	2.00	0.00	0.00	0.01	0.00	14.68	2.00	0.00	0.00	0.01	0.00
14.69	2.00	0.00	0.00	0.01	0.00	14.70	2.00	0.00	0.00	0.01	0.00
14.71	2.00	0.00	0.00	0.01	0.00	14.72	2.00	0.00	0.00	0.01	0.00
14.73	2.00	0.00	0.00	0.01	0.00	14.74	2.00	0.00	0.00	0.01	0.00
14.75	2.00	0.00	0.00	0.01	0.00	14.76	2.00	0.00	0.00	0.01	0.00
14.77	2.00	0.00	0.00	0.01	0.00	14.78	2.00	0.00	0.00	0.01	0.00
14.79	2.00	0.00	0.00	0.01	0.00	14.80	2.00	0.00	0.00	0.01	0.00
14.81	2.00	0.00	0.00	0.01	0.00	14.82	2.00	0.00	0.00	0.01	0.00
14.83	2.00	0.00	0.00	0.01	0.00	14.84	2.00	0.00	0.00	0.01	0.00
14.85	2.00	0.00	0.00	0.01	0.00	14.86	2.00	0.00	0.00	0.01	0.00
14.87	2.00	0.00	0.00	0.01	0.00	14.88	2.00	0.00	0.00	0.01	0.00
14.89	2.00	0.00	0.00	0.01	0.00	14.90	2.00	0.00	0.00	0.01	0.00
14.91	2.00	0.00	0.00	0.01	0.00	14.92	2.00	0.00	0.00	0.01	0.00
14.93	2.00	0.00	0.00	0.01	0.00	14.94	2.00	0.00	0.00	0.01	0.00
14.95	2.00	0.00	0.00	0.01	0.00	14.96	2.00	0.00	0.00	0.01	0.00
14.97	2.00	0.00	0.00	0.01	0.00	14.98	2.00	0.00	0.00	0.01	0.00
14.99	2.00	0.00	0.00	0.01	0.00	15.00	2.00	0.00	0.00	0.01	0.00
15.01	2.00	0.00	0.00	0.01	0.00	15.02	2.00	0.00	0.00	0.01	0.00
15.03	2.00	0.00	0.00	0.01	0.00	15.04	2.00	0.00	0.00	0.01	0.00
15.05	2.00	0.00	0.00	0.01	0.00	15.06	2.00	0.00	0.00	0.01	0.00
15.07	2.00	0.00	0.00	0.01	0.00	15.08	2.00	0.00	0.00	0.01	0.00
15.09	2.00	0.00	0.00	0.01	0.00	15.10	2.00	0.00	0.00	0.01	0.00
15.11	2.00	0.00	0.00	0.01	0.00	15.12	2.00	0.00	0.00	0.01	0.00
15.13	2.00	0.00	0.00	0.01	0.00	15.14	2.00	0.00	0.00	0.01	0.00
15.15	2.00	0.00	0.00	0.01	0.00	15.16	2.00	0.00	0.00	0.01	0.00
15.17	2.00	0.00	0.00	0.01	0.00	15.18	2.00	0.00	0.00	0.01	0.00
15.19	2.00	0.00	0.00	0.01	0.00	15.20	2.00	0.00	0.00	0.01	0.00
15.21	2.00	0.00	0.00	0.01	0.00	15.22	2.00	0.00	0.00	0.01	0.00
15.23	2.00	0.00	0.00	0.01	0.00	15.24	2.00	0.00	0.00	0.01	0.00
15.25	2.00	0.00	0.00	0.01	0.00	15.26	2.00	0.00	0.00	0.01	0.00
15.27	2.00	0.00	0.00	0.01	0.00	15.28	2.00	0.00	0.00	0.01	0.00
15.29	2.00	0.00	0.00	0.01	0.00	15.30	2.00	0.00	0.00	0.01	0.00
15.31	2.00	0.00	0.00	0.01	0.00	15.32	2.00	0.00	0.00	0.01	0.00
15.33	2.00	0.00	0.00	0.01	0.00	15.34	2.00	0.00	0.00	0.01	0.00
15.35	2.00	0.00	0.00	0.01	0.00	15.36	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.37	2.00	0.00	0.00	0.01	0.00	15.38	2.00	0.00	0.00	0.01	0.00
15.39	2.00	0.00	0.00	0.01	0.00	15.40	2.00	0.00	0.00	0.01	0.00
15.41	2.00	0.00	0.00	0.01	0.00	15.42	2.00	0.00	0.00	0.01	0.00
15.43	2.00	0.00	0.00	0.01	0.00	15.44	2.00	0.00	0.00	0.01	0.00
15.45	2.00	0.00	0.00	0.01	0.00	15.46	2.00	0.00	0.00	0.01	0.00
15.47	2.00	0.00	0.00	0.01	0.00	15.48	2.00	0.00	0.00	0.01	0.00
15.49	2.00	0.00	0.00	0.01	0.00	15.50	2.00	0.00	0.00	0.01	0.00
15.51	2.00	0.00	0.00	0.01	0.00	15.52	2.00	0.00	0.00	0.01	0.00
15.53	2.00	0.00	0.00	0.01	0.00	15.54	2.00	0.00	0.00	0.01	0.00
15.55	2.00	0.00	0.00	0.01	0.00	15.56	2.00	0.00	0.00	0.01	0.00
15.57	2.00	0.00	0.00	0.01	0.00	15.58	2.00	0.00	0.00	0.01	0.00
15.59	2.00	0.00	0.00	0.01	0.00	15.60	2.00	0.00	0.00	0.01	0.00
15.61	2.00	0.00	0.00	0.01	0.00	15.62	2.00	0.00	0.00	0.01	0.00
15.63	2.00	0.00	0.00	0.01	0.00	15.64	2.00	0.00	0.00	0.01	0.00
15.65	2.00	0.00	0.00	0.01	0.00	15.66	2.00	0.00	0.00	0.01	0.00
15.67	2.00	0.00	0.00	0.01	0.00	15.68	2.00	0.00	0.00	0.01	0.00
15.69	2.00	0.00	0.00	0.01	0.00	15.70	2.00	0.00	0.00	0.01	0.00
15.71	2.00	0.00	0.00	0.01	0.00	15.72	2.00	0.00	0.00	0.01	0.00
15.73	2.00	0.00	0.00	0.01	0.00	15.74	2.00	0.00	0.00	0.01	0.00
15.75	2.00	0.00	0.00	0.01	0.00	15.76	2.00	0.00	0.00	0.01	0.00
15.77	2.00	0.00	0.00	0.01	0.00	15.78	2.00	0.00	0.00	0.01	0.00
15.79	2.00	0.00	0.00	0.01	0.00	15.80	2.00	0.00	0.00	0.01	0.00
15.81	2.00	0.00	0.00	0.01	0.00	15.82	2.00	0.00	0.00	0.01	0.00
15.83	2.00	0.00	0.00	0.01	0.00	15.84	2.00	0.00	0.00	0.01	0.00
15.85	2.00	0.00	0.00	0.01	0.00	15.86	2.00	0.00	0.00	0.01	0.00
15.87	2.00	0.00	0.00	0.01	0.00	15.88	2.00	0.00	0.00	0.01	0.00
15.89	2.00	0.00	0.00	0.01	0.00	15.90	2.00	0.00	0.00	0.01	0.00
15.91	2.00	0.00	0.00	0.01	0.00	15.92	2.00	0.00	0.00	0.01	0.00
15.93	2.00	0.00	0.00	0.01	0.00	15.94	2.00	0.00	0.00	0.01	0.00
15.95	2.00	0.00	0.00	0.01	0.00	15.96	2.00	0.00	0.00	0.01	0.00
15.97	2.00	0.00	0.00	0.01	0.00	15.98	2.00	0.00	0.00	0.01	0.00
15.99	2.00	0.00	0.00	0.01	0.00	16.00	2.00	0.00	0.00	0.01	0.00
16.01	2.00	0.00	0.00	0.01	0.00	16.02	2.00	0.00	0.00	0.01	0.00
16.03	2.00	0.00	0.00	0.01	0.00	16.04	2.00	0.00	0.00	0.01	0.00
16.05	2.00	0.00	0.00	0.01	0.00	16.06	2.00	0.00	0.00	0.01	0.00
16.07	2.00	0.00	0.00	0.01	0.00	16.08	2.00	0.00	0.00	0.01	0.00
16.09	2.00	0.00	0.00	0.01	0.00	16.10	2.00	0.00	0.00	0.01	0.00
16.11	2.00	0.00	0.00	0.01	0.00	16.12	2.00	0.00	0.00	0.01	0.00
16.13	2.00	0.00	0.00	0.01	0.00	16.14	2.00	0.00	0.00	0.01	0.00
16.15	2.00	0.00	0.00	0.01	0.00	16.16	2.00	0.00	0.00	0.01	0.00
16.17	2.00	0.00	0.00	0.01	0.00	16.18	2.00	0.00	0.00	0.01	0.00
16.19	2.00	0.00	0.00	0.01	0.00	16.20	2.00	0.00	0.00	0.01	0.00
16.21	2.00	0.00	0.00	0.01	0.00	16.22	2.00	0.00	0.00	0.01	0.00
16.23	2.00	0.00	0.00	0.01	0.00	16.24	2.00	0.00	0.00	0.01	0.00
16.25	2.00	0.00	0.00	0.01	0.00	16.26	2.00	0.00	0.00	0.01	0.00
16.27	2.00	0.00	0.00	0.01	0.00	16.28	2.00	0.00	0.00	0.01	0.00
16.29	2.00	0.00	0.00	0.01	0.00	16.30	2.00	0.00	0.00	0.01	0.00
16.31	2.00	0.00	0.00	0.01	0.00	16.32	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.33	2.00	0.00	0.00	0.01	0.00	16.34	2.00	0.00	0.00	0.01	0.00
16.35	2.00	0.00	0.00	0.01	0.00	16.36	2.00	0.00	0.00	0.01	0.00
16.37	2.00	0.00	0.00	0.01	0.00	16.38	2.00	0.00	0.00	0.01	0.00
16.39	2.00	0.00	0.00	0.01	0.00	16.40	2.00	0.00	0.00	0.01	0.00
16.41	2.00	0.00	0.00	0.01	0.00	16.42	2.00	0.00	0.00	0.01	0.00
16.43	2.00	0.00	0.00	0.01	0.00	16.44	2.00	0.00	0.00	0.01	0.00
16.45	2.00	0.00	0.00	0.01	0.00	16.46	2.00	0.00	0.00	0.01	0.00
16.47	2.00	0.00	0.00	0.01	0.00	16.48	2.00	0.00	0.00	0.01	0.00
16.49	0.63	0.37	0.71	0.01	0.01	16.50	0.66	0.34	0.77	0.01	0.01
16.51	0.67	0.33	0.81	0.01	0.01	16.52	0.67	0.33	0.83	0.01	0.01
16.53	0.68	0.32	0.85	0.01	0.01	16.54	0.68	0.32	0.85	0.01	0.01
16.55	0.69	0.31	0.86	0.01	0.01	16.56	0.68	0.32	0.86	0.01	0.01
16.57	0.68	0.32	0.84	0.01	0.01	16.58	0.68	0.32	0.84	0.01	0.01
16.59	0.67	0.33	0.82	0.01	0.01	16.60	0.67	0.33	0.81	0.01	0.01
16.61	0.66	0.34	0.78	0.01	0.01	16.62	0.65	0.35	0.75	0.01	0.01
16.63	0.64	0.36	0.73	0.01	0.01	16.64	0.62	0.38	0.67	0.01	0.01
16.65	0.61	0.39	0.66	0.01	0.01	16.66	0.60	0.40	0.62	0.01	0.01
16.67	2.00	0.00	0.00	0.01	0.00	16.68	2.00	0.00	0.00	0.01	0.00
16.69	2.00	0.00	0.00	0.01	0.00	16.70	2.00	0.00	0.00	0.01	0.00
16.71	2.00	0.00	0.00	0.01	0.00	16.72	2.00	0.00	0.00	0.01	0.00
16.73	2.00	0.00	0.00	0.01	0.00	16.74	2.00	0.00	0.00	0.01	0.00
16.75	2.00	0.00	0.00	0.01	0.00	16.76	2.00	0.00	0.00	0.01	0.00
16.77	2.00	0.00	0.00	0.01	0.00	16.78	2.00	0.00	0.00	0.01	0.00
16.79	2.00	0.00	0.00	0.01	0.00	16.80	2.00	0.00	0.00	0.01	0.00
16.81	2.00	0.00	0.00	0.01	0.00	16.82	2.00	0.00	0.00	0.01	0.00
16.83	2.00	0.00	0.00	0.01	0.00	16.84	2.00	0.00	0.00	0.01	0.00
16.85	2.00	0.00	0.00	0.01	0.00	16.86	2.00	0.00	0.00	0.01	0.00
16.87	2.00	0.00	0.00	0.01	0.00	16.88	2.00	0.00	0.00	0.01	0.00
16.89	2.00	0.00	0.00	0.01	0.00	16.90	2.00	0.00	0.00	0.01	0.00
16.91	2.00	0.00	0.00	0.01	0.00	16.92	2.00	0.00	0.00	0.01	0.00
16.93	2.00	0.00	0.00	0.01	0.00	16.94	2.00	0.00	0.00	0.01	0.00
16.95	2.00	0.00	0.00	0.01	0.00	16.96	2.00	0.00	0.00	0.01	0.00
16.97	2.00	0.00	0.00	0.01	0.00	16.98	2.00	0.00	0.00	0.01	0.00
16.99	2.00	0.00	0.00	0.01	0.00	17.00	2.00	0.00	0.00	0.01	0.00
17.01	2.00	0.00	0.00	0.01	0.00	17.02	2.00	0.00	0.00	0.01	0.00
17.03	2.00	0.00	0.00	0.01	0.00	17.04	2.00	0.00	0.00	0.01	0.00
17.05	2.00	0.00	0.00	0.01	0.00	17.06	2.00	0.00	0.00	0.01	0.00
17.07	2.00	0.00	0.00	0.01	0.00	17.08	2.00	0.00	0.00	0.01	0.00
17.09	2.00	0.00	0.00	0.01	0.00	17.10	2.00	0.00	0.00	0.01	0.00
17.11	2.00	0.00	0.00	0.01	0.00	17.12	2.00	0.00	0.00	0.01	0.00
17.13	2.00	0.00	0.00	0.01	0.00	17.14	2.00	0.00	0.00	0.01	0.00
17.15	2.00	0.00	0.00	0.01	0.00	17.16	2.00	0.00	0.00	0.01	0.00
17.17	2.00	0.00	0.00	0.01	0.00	17.18	2.00	0.00	0.00	0.01	0.00
17.19	2.00	0.00	0.00	0.01	0.00	17.20	2.00	0.00	0.00	0.01	0.00
17.21	2.00	0.00	0.00	0.01	0.00	17.22	2.00	0.00	0.00	0.01	0.00
17.23	2.00	0.00	0.00	0.01	0.00	17.24	2.00	0.00	0.00	0.01	0.00
17.25	2.00	0.00	0.00	0.01	0.00	17.26	2.00	0.00	0.00	0.01	0.00
17.27	2.00	0.00	0.00	0.01	0.00	17.28	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
17.29	2.00	0.00	0.00	0.01	0.00	17.30	2.00	0.00	0.00	0.01	0.00
17.31	2.00	0.00	0.00	0.01	0.00	17.32	2.00	0.00	0.00	0.01	0.00
17.33	2.00	0.00	0.00	0.01	0.00	17.34	2.00	0.00	0.00	0.01	0.00
17.35	2.00	0.00	0.00	0.01	0.00	17.36	2.00	0.00	0.00	0.01	0.00
17.37	2.00	0.00	0.00	0.01	0.00	17.38	2.00	0.00	0.00	0.01	0.00
17.39	2.00	0.00	0.00	0.01	0.00	17.40	2.00	0.00	0.00	0.01	0.00
17.41	2.00	0.00	0.00	0.01	0.00	17.42	2.00	0.00	0.00	0.01	0.00
17.43	2.00	0.00	0.00	0.01	0.00	17.44	2.00	0.00	0.00	0.01	0.00
17.45	2.00	0.00	0.00	0.01	0.00	17.46	2.00	0.00	0.00	0.01	0.00
17.47	2.00	0.00	0.00	0.01	0.00	17.48	2.00	0.00	0.00	0.01	0.00
17.49	2.00	0.00	0.00	0.01	0.00	17.50	2.00	0.00	0.00	0.01	0.00
17.51	2.00	0.00	0.00	0.01	0.00	17.52	2.00	0.00	0.00	0.01	0.00
17.53	2.00	0.00	0.00	0.01	0.00	17.54	2.00	0.00	0.00	0.01	0.00
17.55	2.00	0.00	0.00	0.01	0.00	17.56	2.00	0.00	0.00	0.01	0.00
17.57	2.00	0.00	0.00	0.01	0.00	17.58	2.00	0.00	0.00	0.01	0.00
17.59	2.00	0.00	0.00	0.01	0.00	17.60	2.00	0.00	0.00	0.01	0.00
17.61	2.00	0.00	0.00	0.01	0.00	17.62	2.00	0.00	0.00	0.01	0.00
17.63	2.00	0.00	0.00	0.01	0.00	17.64	2.00	0.00	0.00	0.01	0.00
17.65	2.00	0.00	0.00	0.01	0.00	17.66	2.00	0.00	0.00	0.01	0.00
17.67	2.00	0.00	0.00	0.01	0.00	17.68	2.00	0.00	0.00	0.01	0.00
17.69	2.00	0.00	0.00	0.01	0.00	17.70	2.00	0.00	0.00	0.01	0.00
17.71	2.00	0.00	0.00	0.01	0.00	17.72	2.00	0.00	0.00	0.01	0.00
17.73	2.00	0.00	0.00	0.01	0.00	17.74	2.00	0.00	0.00	0.01	0.00
17.75	2.00	0.00	0.00	0.01	0.00	17.76	2.00	0.00	0.00	0.01	0.00
17.77	2.00	0.00	0.00	0.01	0.00	17.78	2.00	0.00	0.00	0.01	0.00
17.79	2.00	0.00	0.00	0.01	0.00	17.80	2.00	0.00	0.00	0.01	0.00
17.81	2.00	0.00	0.00	0.01	0.00	17.82	2.00	0.00	0.00	0.01	0.00
17.83	2.00	0.00	0.00	0.01	0.00	17.84	2.00	0.00	0.00	0.01	0.00
17.85	2.00	0.00	0.00	0.01	0.00	17.86	2.00	0.00	0.00	0.01	0.00
17.87	2.00	0.00	0.00	0.01	0.00	17.88	2.00	0.00	0.00	0.01	0.00
17.89	2.00	0.00	0.00	0.01	0.00	17.90	2.00	0.00	0.00	0.01	0.00
17.91	2.00	0.00	0.00	0.01	0.00	17.92	2.00	0.00	0.00	0.01	0.00
17.93	2.00	0.00	0.00	0.01	0.00	17.94	2.00	0.00	0.00	0.01	0.00
17.95	2.00	0.00	0.00	0.01	0.00	17.96	2.00	0.00	0.00	0.01	0.00
17.97	2.00	0.00	0.00	0.01	0.00	17.98	2.00	0.00	0.00	0.01	0.00
17.99	2.00	0.00	0.00	0.01	0.00	18.00	2.00	0.00	0.00	0.01	0.00
18.01	2.00	0.00	0.00	0.01	0.00	18.02	2.00	0.00	0.00	0.01	0.00
18.03	2.00	0.00	0.00	0.01	0.00	18.04	2.00	0.00	0.00	0.01	0.00
18.05	2.00	0.00	0.00	0.01	0.00	18.06	2.00	0.00	0.00	0.01	0.00
18.07	2.00	0.00	0.00	0.01	0.00	18.08	2.00	0.00	0.00	0.01	0.00
18.09	2.00	0.00	0.00	0.01	0.00	18.10	2.00	0.00	0.00	0.01	0.00
18.11	2.00	0.00	0.00	0.01	0.00	18.12	2.00	0.00	0.00	0.01	0.00
18.13	2.00	0.00	0.00	0.01	0.00	18.14	2.00	0.00	0.00	0.01	0.00
18.15	2.00	0.00	0.00	0.01	0.00	18.16	2.00	0.00	0.00	0.01	0.00
18.17	2.00	0.00	0.00	0.01	0.00	18.18	2.00	0.00	0.00	0.01	0.00
18.19	2.00	0.00	0.00	0.01	0.00	18.20	2.00	0.00	0.00	0.01	0.00
18.21	2.00	0.00	0.00	0.01	0.00	18.22	2.00	0.00	0.00	0.01	0.00
18.23	2.00	0.00	0.00	0.01	0.00	18.24	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
18.25	2.00	0.00	0.00	0.01	0.00	18.26	2.00	0.00	0.00	0.01	0.00
18.27	2.00	0.00	0.00	0.01	0.00	18.28	2.00	0.00	0.00	0.01	0.00
18.29	2.00	0.00	0.00	0.01	0.00	18.30	2.00	0.00	0.00	0.01	0.00
18.31	2.00	0.00	0.00	0.01	0.00	18.32	2.00	0.00	0.00	0.01	0.00
18.33	2.00	0.00	0.00	0.01	0.00	18.34	2.00	0.00	0.00	0.01	0.00
18.35	2.00	0.00	0.00	0.01	0.00	18.36	2.00	0.00	0.00	0.01	0.00
18.37	2.00	0.00	0.00	0.01	0.00	18.38	2.00	0.00	0.00	0.01	0.00
18.39	2.00	0.00	0.00	0.01	0.00	18.40	2.00	0.00	0.00	0.01	0.00
18.41	2.00	0.00	0.00	0.01	0.00	18.42	2.00	0.00	0.00	0.01	0.00
18.43	2.00	0.00	0.00	0.01	0.00	18.44	2.00	0.00	0.00	0.01	0.00
18.45	2.00	0.00	0.00	0.01	0.00	18.46	2.00	0.00	0.00	0.01	0.00
18.47	2.00	0.00	0.00	0.01	0.00	18.48	2.00	0.00	0.00	0.01	0.00
18.49	2.00	0.00	0.00	0.01	0.00	18.50	2.00	0.00	0.00	0.01	0.00
18.51	2.00	0.00	0.00	0.01	0.00	18.52	2.00	0.00	0.00	0.01	0.00
18.53	2.00	0.00	0.00	0.01	0.00	18.54	2.00	0.00	0.00	0.01	0.00
18.55	2.00	0.00	0.00	0.01	0.00	18.56	2.00	0.00	0.00	0.01	0.00
18.57	2.00	0.00	0.00	0.01	0.00	18.58	2.00	0.00	0.00	0.01	0.00
18.59	2.00	0.00	0.00	0.01	0.00	18.60	2.00	0.00	0.00	0.01	0.00
18.61	2.00	0.00	0.00	0.01	0.00	18.62	2.00	0.00	0.00	0.01	0.00
18.63	2.00	0.00	0.00	0.01	0.00	18.64	2.00	0.00	0.00	0.01	0.00
18.65	2.00	0.00	0.00	0.01	0.00	18.66	2.00	0.00	0.00	0.01	0.00
18.67	2.00	0.00	0.00	0.01	0.00	18.68	2.00	0.00	0.00	0.01	0.00
18.69	2.00	0.00	0.00	0.01	0.00	18.70	2.00	0.00	0.00	0.01	0.00
18.71	2.00	0.00	0.00	0.01	0.00	18.72	2.00	0.00	0.00	0.01	0.00
18.73	2.00	0.00	0.00	0.01	0.00	18.74	2.00	0.00	0.00	0.01	0.00
18.75	2.00	0.00	0.00	0.01	0.00	18.76	2.00	0.00	0.00	0.01	0.00
18.77	2.00	0.00	0.00	0.01	0.00	18.78	2.00	0.00	0.00	0.01	0.00
18.79	2.00	0.00	0.00	0.01	0.00	18.80	2.00	0.00	0.00	0.01	0.00
18.81	2.00	0.00	0.00	0.01	0.00	18.82	2.00	0.00	0.00	0.01	0.00
18.83	2.00	0.00	0.00	0.01	0.00	18.84	2.00	0.00	0.00	0.01	0.00
18.85	2.00	0.00	0.00	0.01	0.00	18.86	2.00	0.00	0.00	0.01	0.00
18.87	2.00	0.00	0.00	0.01	0.00	18.88	2.00	0.00	0.00	0.01	0.00
18.89	2.00	0.00	0.00	0.01	0.00	18.90	2.00	0.00	0.00	0.01	0.00
18.91	2.00	0.00	0.00	0.01	0.00	18.92	2.00	0.00	0.00	0.01	0.00
18.93	2.00	0.00	0.00	0.01	0.00	18.94	2.00	0.00	0.00	0.01	0.00
18.95	2.00	0.00	0.00	0.01	0.00	18.96	2.00	0.00	0.00	0.01	0.00
18.97	2.00	0.00	0.00	0.01	0.00	18.98	2.00	0.00	0.00	0.01	0.00
18.99	2.00	0.00	0.00	0.01	0.00	19.00	2.00	0.00	0.00	0.01	0.00
19.01	2.00	0.00	0.00	0.01	0.00	19.02	2.00	0.00	0.00	0.01	0.00
19.03	2.00	0.00	0.00	0.01	0.00	19.04	2.00	0.00	0.00	0.01	0.00
19.05	2.00	0.00	0.00	0.01	0.00	19.06	2.00	0.00	0.00	0.01	0.00
19.07	2.00	0.00	0.00	0.01	0.00	19.08	2.00	0.00	0.00	0.01	0.00
19.09	2.00	0.00	0.00	0.01	0.00	19.10	2.00	0.00	0.00	0.01	0.00
19.11	2.00	0.00	0.00	0.01	0.00	19.12	2.00	0.00	0.00	0.01	0.00
19.13	2.00	0.00	0.00	0.01	0.00	19.14	2.00	0.00	0.00	0.01	0.00
19.15	2.00	0.00	0.00	0.01	0.00	19.16	2.00	0.00	0.00	0.01	0.00
19.17	2.00	0.00	0.00	0.01	0.00	19.18	2.00	0.00	0.00	0.01	0.00
19.19	2.00	0.00	0.00	0.01	0.00	19.20	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.21	2.00	0.00	0.00	0.01	0.00	19.22	2.00	0.00	0.00	0.01	0.00
19.23	2.00	0.00	0.00	0.01	0.00	19.24	2.00	0.00	0.00	0.01	0.00
19.25	2.00	0.00	0.00	0.01	0.00	19.26	2.00	0.00	0.00	0.01	0.00
19.27	2.00	0.00	0.00	0.01	0.00	19.28	2.00	0.00	0.00	0.01	0.00
19.29	2.00	0.00	0.00	0.01	0.00	19.30	2.00	0.00	0.00	0.01	0.00
19.31	2.00	0.00	0.00	0.01	0.00	19.32	2.00	0.00	0.00	0.01	0.00
19.33	2.00	0.00	0.00	0.01	0.00	19.34	2.00	0.00	0.00	0.01	0.00
19.35	2.00	0.00	0.00	0.01	0.00	19.36	2.00	0.00	0.00	0.01	0.00
19.37	2.00	0.00	0.00	0.01	0.00	19.38	2.00	0.00	0.00	0.01	0.00
19.39	2.00	0.00	0.00	0.01	0.00	19.40	2.00	0.00	0.00	0.01	0.00
19.41	2.00	0.00	0.00	0.01	0.00	19.42	2.00	0.00	0.00	0.01	0.00
19.43	2.00	0.00	0.00	0.01	0.00	19.44	2.00	0.00	0.00	0.01	0.00
19.45	2.00	0.00	0.00	0.01	0.00	19.46	2.00	0.00	0.00	0.01	0.00
19.47	2.00	0.00	0.00	0.01	0.00	19.48	2.00	0.00	0.00	0.01	0.00
19.49	2.00	0.00	0.00	0.01	0.00	19.50	2.00	0.00	0.00	0.01	0.00
19.51	2.00	0.00	0.00	0.01	0.00	19.52	2.00	0.00	0.00	0.01	0.00
19.53	2.00	0.00	0.00	0.01	0.00	19.54	2.00	0.00	0.00	0.01	0.00
19.55	2.00	0.00	0.00	0.01	0.00	19.56	2.00	0.00	0.00	0.01	0.00
19.57	2.00	0.00	0.00	0.01	0.00	19.58	2.00	0.00	0.00	0.01	0.00
19.59	2.00	0.00	0.00	0.01	0.00	19.60	2.00	0.00	0.00	0.01	0.00
19.61	2.00	0.00	0.00	0.01	0.00	19.62	2.00	0.00	0.00	0.01	0.00
19.63	2.00	0.00	0.00	0.01	0.00	19.64	2.00	0.00	0.00	0.01	0.00
19.65	2.00	0.00	0.00	0.01	0.00	19.66	2.00	0.00	0.00	0.01	0.00
19.67	2.00	0.00	0.00	0.01	0.00	19.68	2.00	0.00	0.00	0.01	0.00
19.69	2.00	0.00	0.00	0.01	0.00	19.70	2.00	0.00	0.00	0.01	0.00
19.71	2.00	0.00	0.00	0.01	0.00	19.72	2.00	0.00	0.00	0.01	0.00
19.73	2.00	0.00	0.00	0.01	0.00	19.74	2.00	0.00	0.00	0.01	0.00
19.75	2.00	0.00	0.00	0.01	0.00	19.76	2.00	0.00	0.00	0.01	0.00
19.77	2.00	0.00	0.00	0.01	0.00	19.78	2.00	0.00	0.00	0.01	0.00
19.79	2.00	0.00	0.00	0.01	0.00	19.80	2.00	0.00	0.00	0.01	0.00
19.81	2.00	0.00	0.00	0.01	0.00	19.82	2.00	0.00	0.00	0.01	0.00
19.83	2.00	0.00	0.00	0.01	0.00	19.84	2.00	0.00	0.00	0.01	0.00
19.85	2.00	0.00	0.00	0.01	0.00	19.86	2.00	0.00	0.00	0.01	0.00
19.87	2.00	0.00	0.00	0.01	0.00	19.88	2.00	0.00	0.00	0.01	0.00
19.89	2.00	0.00	0.00	0.01	0.00	19.90	2.00	0.00	0.00	0.01	0.00
19.91	2.00	0.00	0.00	0.01	0.00	19.92	2.00	0.00	0.00	0.01	0.00
19.93	2.00	0.00	0.00	0.01	0.00	19.94	2.00	0.00	0.00	0.01	0.00
19.95	2.00	0.00	0.00	0.01	0.00	19.96	2.00	0.00	0.00	0.01	0.00
19.97	2.00	0.00	0.00	0.01	0.00	19.98	2.00	0.00	0.00	0.01	0.00
19.99	2.00	0.00	0.00	0.01	0.00	20.00	2.00	0.00	0.00	0.01	0.00
20.01	2.00	0.00	0.00	0.01	0.00	20.02	2.00	0.00	0.00	0.01	0.00
20.03	2.00	0.00	0.00	0.01	0.00	20.04	2.00	0.00	0.00	0.01	0.00
20.05	2.00	0.00	0.00	0.01	0.00	20.06	2.00	0.00	0.00	0.01	0.00
20.07	2.00	0.00	0.00	0.01	0.00	20.08	2.00	0.00	0.00	0.01	0.00
20.09	2.00	0.00	0.00	0.01	0.00	20.10	2.00	0.00	0.00	0.01	0.00
20.11	2.00	0.00	0.00	0.01	0.00	20.12	2.00	0.00	0.00	0.01	0.00
20.13	2.00	0.00	0.00	0.01	0.00	20.14	2.00	0.00	0.00	0.01	0.00
20.15	2.00	0.00	0.00	0.01	0.00	20.16	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
20.17	2.00	0.00	0.00	0.01	0.00	20.18	2.00	0.00	0.00	0.01	0.00
20.19	2.00	0.00	0.00	0.01	0.00	20.20	2.00	0.00	0.00	0.01	0.00
20.21	2.00	0.00	0.00	0.01	0.00	20.22	2.00	0.00	0.00	0.01	0.00
20.23	2.00	0.00	0.00	0.01	0.00	20.24	2.00	0.00	0.00	0.01	0.00
20.25	2.00	0.00	0.00	0.01	0.00	20.26	2.00	0.00	0.00	0.01	0.00
20.27	2.00	0.00	0.00	0.01	0.00	20.28	2.00	0.00	0.00	0.01	0.00
20.29	2.00	0.00	0.00	0.01	0.00	20.30	2.00	0.00	0.00	0.01	0.00
20.31	2.00	0.00	0.00	0.01	0.00	20.32	2.00	0.00	0.00	0.01	0.00
20.33	2.00	0.00	0.00	0.01	0.00	20.34	2.00	0.00	0.00	0.01	0.00
20.35	2.00	0.00	0.00	0.01	0.00	20.36	2.00	0.00	0.00	0.01	0.00
20.37	2.00	0.00	0.00	0.01	0.00	20.38	2.00	0.00	0.00	0.01	0.00
20.39	2.00	0.00	0.00	0.01	0.00	20.40	2.00	0.00	0.00	0.01	0.00
20.41	2.00	0.00	0.00	0.01	0.00	20.42	2.00	0.00	0.00	0.01	0.00
20.43	2.00	0.00	0.00	0.01	0.00	20.44	2.00	0.00	0.00	0.01	0.00
20.45	2.00	0.00	0.00	0.01	0.00	20.46	2.00	0.00	0.00	0.01	0.00
20.47	2.00	0.00	0.00	0.01	0.00	20.48	2.00	0.00	0.00	0.01	0.00
20.49	2.00	0.00	0.00	0.01	0.00	20.50	2.00	0.00	0.00	0.01	0.00
20.51	2.00	0.00	0.00	0.01	0.00	20.52	2.00	0.00	0.00	0.01	0.00
20.53	2.00	0.00	0.00	0.01	0.00	20.54	2.00	0.00	0.00	0.01	0.00
20.55	2.00	0.00	0.00	0.01	0.00	20.56	2.00	0.00	0.00	0.01	0.00
20.57	2.00	0.00	0.00	0.01	0.00	20.58	2.00	0.00	0.00	0.01	0.00
20.59	2.00	0.00	0.00	0.01	0.00	20.60	2.00	0.00	0.00	0.01	0.00
20.61	2.00	0.00	0.00	0.01	0.00						

Overall liquefaction potential: 0.11

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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http://www.geologismiki.gr

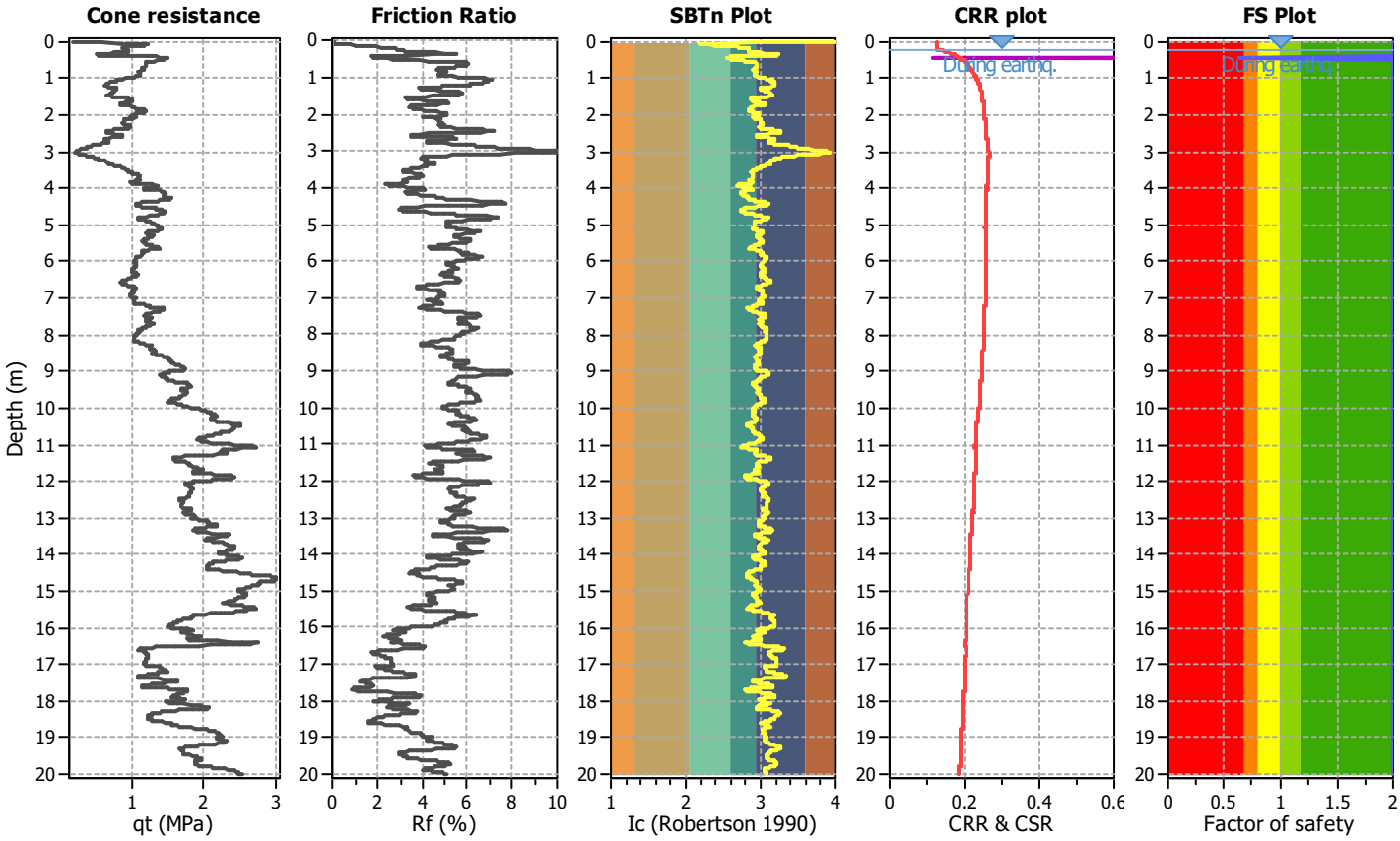
LIQUEFACTION ANALYSIS REPORT

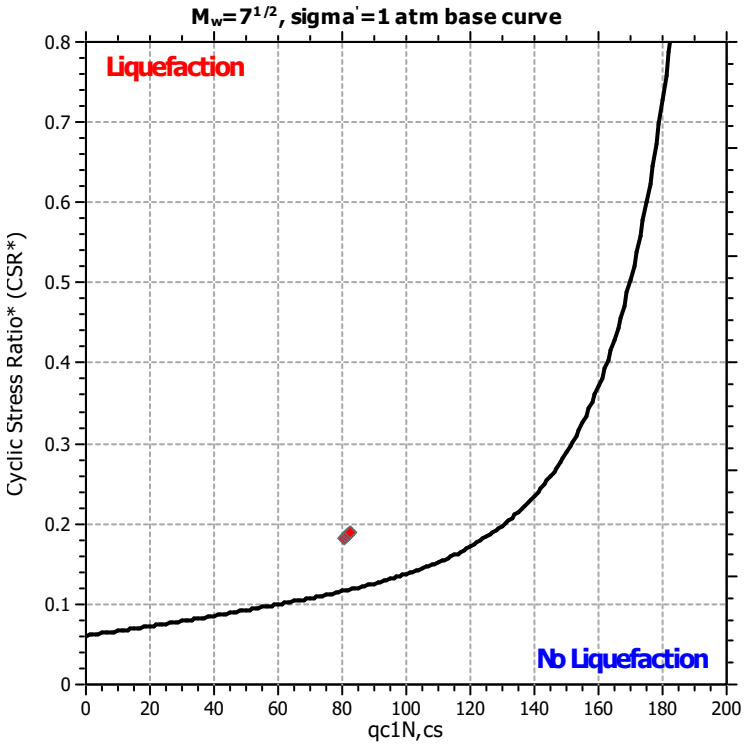
Project title : **Location :**

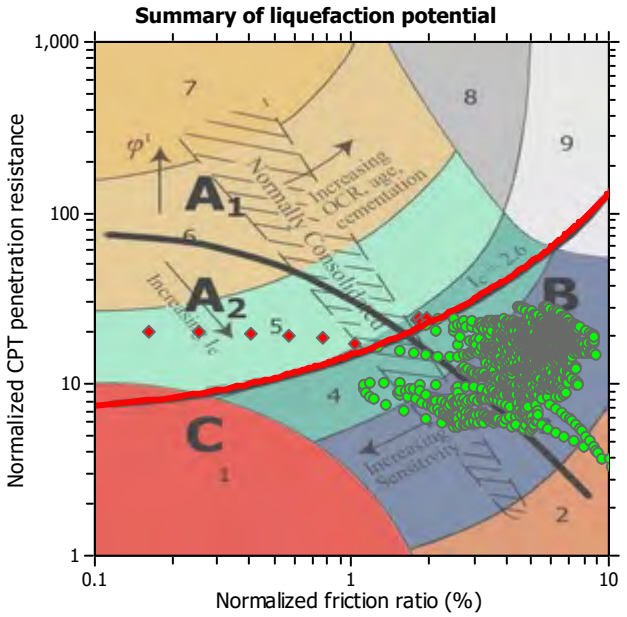
CPT file : SP243

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

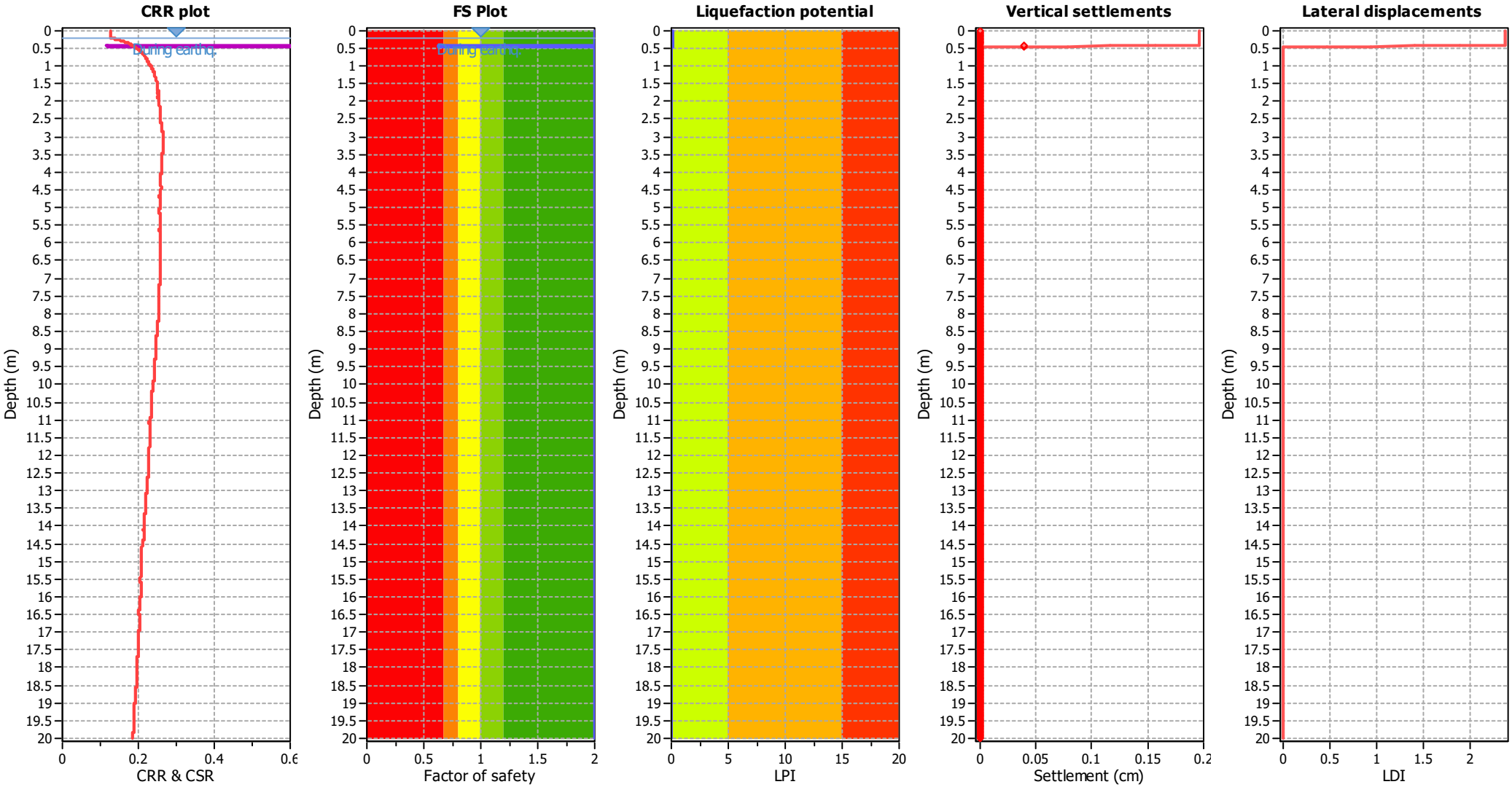






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.01	2.00	0.00	0.00	0.01	0.00	0.02	2.00	0.00	0.00	0.01	0.00
0.03	2.00	0.00	0.00	0.01	0.00	0.04	2.00	0.00	0.00	0.01	0.00
0.05	2.00	0.00	0.00	0.01	0.00	0.06	2.00	0.00	0.00	0.01	0.00
0.07	2.00	0.00	0.00	0.01	0.00	0.08	2.00	0.00	0.00	0.01	0.00
0.09	2.00	0.00	0.00	0.01	0.00	0.10	2.00	0.00	0.00	0.01	0.00
0.11	2.00	0.00	0.00	0.01	0.00	0.12	2.00	0.00	0.00	0.01	0.00
0.13	2.00	0.00	0.00	0.01	0.00	0.14	2.00	0.00	0.00	0.01	0.00
0.15	2.00	0.00	0.00	0.01	0.00	0.16	2.00	0.00	0.00	0.01	0.00
0.17	2.00	0.00	0.00	0.01	0.00	0.18	2.00	0.00	0.00	0.01	0.00
0.19	2.00	0.00	0.00	0.01	0.00	0.20	2.00	0.00	0.00	0.01	0.00
0.21	2.00	0.00	0.00	0.01	0.00	0.22	2.00	0.00	0.00	0.01	0.00
0.23	2.00	0.00	0.00	0.01	0.00	0.24	2.00	0.00	0.00	0.01	0.00
0.25	2.00	0.00	0.00	0.01	0.00	0.26	2.00	0.00	0.00	0.01	0.00
0.27	2.00	0.00	0.00	0.01	0.00	0.28	2.00	0.00	0.00	0.01	0.00
0.29	2.00	0.00	0.00	0.01	0.00	0.30	2.00	0.00	0.00	0.01	0.00
0.31	2.00	0.00	0.00	0.01	0.00	0.32	2.00	0.00	0.00	0.01	0.00
0.33	2.00	0.00	0.00	0.01	0.00	0.34	2.00	0.00	0.00	0.01	0.00
0.35	2.00	0.00	0.00	0.01	0.00	0.36	2.00	0.00	0.00	0.01	0.00
0.37	2.00	0.00	0.00	0.01	0.00	0.38	2.00	0.00	0.00	0.01	0.00
0.39	2.00	0.00	0.00	0.01	0.00	0.40	2.00	0.00	0.00	0.01	0.00
0.41	2.00	0.00	0.00	0.01	0.00	0.42	0.64	0.36	0.72	0.01	0.04
0.43	0.63	0.37	0.71	0.01	0.04	0.44	0.63	0.37	0.70	0.01	0.04
0.45	0.63	0.37	0.69	0.01	0.04	0.46	0.63	0.37	0.69	0.01	0.04
0.47	2.00	0.00	0.00	0.01	0.00	0.48	2.00	0.00	0.00	0.01	0.00
0.49	2.00	0.00	0.00	0.01	0.00	0.50	2.00	0.00	0.00	0.01	0.00
0.51	2.00	0.00	0.00	0.01	0.00	0.52	2.00	0.00	0.00	0.01	0.00
0.53	2.00	0.00	0.00	0.01	0.00	0.54	2.00	0.00	0.00	0.01	0.00
0.55	2.00	0.00	0.00	0.01	0.00	0.56	2.00	0.00	0.00	0.01	0.00
0.57	2.00	0.00	0.00	0.01	0.00	0.58	2.00	0.00	0.00	0.01	0.00
0.59	2.00	0.00	0.00	0.01	0.00	0.60	2.00	0.00	0.00	0.01	0.00
0.61	2.00	0.00	0.00	0.01	0.00	0.62	2.00	0.00	0.00	0.01	0.00
0.63	2.00	0.00	0.00	0.01	0.00	0.64	2.00	0.00	0.00	0.01	0.00
0.65	2.00	0.00	0.00	0.01	0.00	0.66	2.00	0.00	0.00	0.01	0.00
0.67	2.00	0.00	0.00	0.01	0.00	0.68	2.00	0.00	0.00	0.01	0.00
0.69	2.00	0.00	0.00	0.01	0.00	0.70	2.00	0.00	0.00	0.01	0.00
0.71	2.00	0.00	0.00	0.01	0.00	0.72	2.00	0.00	0.00	0.01	0.00
0.73	2.00	0.00	0.00	0.01	0.00	0.74	2.00	0.00	0.00	0.01	0.00
0.75	2.00	0.00	0.00	0.01	0.00	0.76	2.00	0.00	0.00	0.01	0.00
0.77	2.00	0.00	0.00	0.01	0.00	0.78	2.00	0.00	0.00	0.01	0.00
0.79	2.00	0.00	0.00	0.01	0.00	0.80	2.00	0.00	0.00	0.01	0.00
0.81	2.00	0.00	0.00	0.01	0.00	0.82	2.00	0.00	0.00	0.01	0.00
0.83	2.00	0.00	0.00	0.01	0.00	0.84	2.00	0.00	0.00	0.01	0.00
0.85	2.00	0.00	0.00	0.01	0.00	0.86	2.00	0.00	0.00	0.01	0.00
0.87	2.00	0.00	0.00	0.01	0.00	0.88	2.00	0.00	0.00	0.01	0.00
0.89	2.00	0.00	0.00	0.01	0.00	0.90	2.00	0.00	0.00	0.01	0.00
0.91	2.00	0.00	0.00	0.01	0.00	0.92	2.00	0.00	0.00	0.01	0.00
0.93	2.00	0.00	0.00	0.01	0.00	0.94	2.00	0.00	0.00	0.01	0.00
0.95	2.00	0.00	0.00	0.01	0.00	0.96	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.97	2.00	0.00	0.00	0.01	0.00	0.98	2.00	0.00	0.00	0.01	0.00
0.99	2.00	0.00	0.00	0.01	0.00	1.00	2.00	0.00	0.00	0.01	0.00
1.01	2.00	0.00	0.00	0.01	0.00	1.02	2.00	0.00	0.00	0.01	0.00
1.03	2.00	0.00	0.00	0.01	0.00	1.04	2.00	0.00	0.00	0.01	0.00
1.05	2.00	0.00	0.00	0.01	0.00	1.06	2.00	0.00	0.00	0.01	0.00
1.07	2.00	0.00	0.00	0.01	0.00	1.08	2.00	0.00	0.00	0.01	0.00
1.09	2.00	0.00	0.00	0.01	0.00	1.10	2.00	0.00	0.00	0.01	0.00
1.11	2.00	0.00	0.00	0.01	0.00	1.12	2.00	0.00	0.00	0.01	0.00
1.13	2.00	0.00	0.00	0.01	0.00	1.14	2.00	0.00	0.00	0.01	0.00
1.15	2.00	0.00	0.00	0.01	0.00	1.16	2.00	0.00	0.00	0.01	0.00
1.17	2.00	0.00	0.00	0.01	0.00	1.18	2.00	0.00	0.00	0.01	0.00
1.19	2.00	0.00	0.00	0.01	0.00	1.20	2.00	0.00	0.00	0.01	0.00
1.21	2.00	0.00	0.00	0.01	0.00	1.22	2.00	0.00	0.00	0.01	0.00
1.23	2.00	0.00	0.00	0.01	0.00	1.24	2.00	0.00	0.00	0.01	0.00
1.25	2.00	0.00	0.00	0.01	0.00	1.26	2.00	0.00	0.00	0.01	0.00
1.27	2.00	0.00	0.00	0.01	0.00	1.28	2.00	0.00	0.00	0.01	0.00
1.29	2.00	0.00	0.00	0.01	0.00	1.30	2.00	0.00	0.00	0.01	0.00
1.31	2.00	0.00	0.00	0.01	0.00	1.32	2.00	0.00	0.00	0.01	0.00
1.33	2.00	0.00	0.00	0.01	0.00	1.34	2.00	0.00	0.00	0.01	0.00
1.35	2.00	0.00	0.00	0.01	0.00	1.36	2.00	0.00	0.00	0.01	0.00
1.37	2.00	0.00	0.00	0.01	0.00	1.38	2.00	0.00	0.00	0.01	0.00
1.39	2.00	0.00	0.00	0.01	0.00	1.40	2.00	0.00	0.00	0.01	0.00
1.41	2.00	0.00	0.00	0.01	0.00	1.42	2.00	0.00	0.00	0.01	0.00
1.43	2.00	0.00	0.00	0.01	0.00	1.44	2.00	0.00	0.00	0.01	0.00
1.45	2.00	0.00	0.00	0.01	0.00	1.46	2.00	0.00	0.00	0.01	0.00
1.47	2.00	0.00	0.00	0.01	0.00	1.48	2.00	0.00	0.00	0.01	0.00
1.49	2.00	0.00	0.00	0.01	0.00	1.50	2.00	0.00	0.00	0.01	0.00
1.51	2.00	0.00	0.00	0.01	0.00	1.52	2.00	0.00	0.00	0.01	0.00
1.53	2.00	0.00	0.00	0.01	0.00	1.54	2.00	0.00	0.00	0.01	0.00
1.55	2.00	0.00	0.00	0.01	0.00	1.56	2.00	0.00	0.00	0.01	0.00
1.57	2.00	0.00	0.00	0.01	0.00	1.58	2.00	0.00	0.00	0.01	0.00
1.59	2.00	0.00	0.00	0.01	0.00	1.60	2.00	0.00	0.00	0.01	0.00
1.61	2.00	0.00	0.00	0.01	0.00	1.62	2.00	0.00	0.00	0.01	0.00
1.63	2.00	0.00	0.00	0.01	0.00	1.64	2.00	0.00	0.00	0.01	0.00
1.65	2.00	0.00	0.00	0.01	0.00	1.66	2.00	0.00	0.00	0.01	0.00
1.67	2.00	0.00	0.00	0.01	0.00	1.68	2.00	0.00	0.00	0.01	0.00
1.69	2.00	0.00	0.00	0.01	0.00	1.70	2.00	0.00	0.00	0.01	0.00
1.71	2.00	0.00	0.00	0.01	0.00	1.72	2.00	0.00	0.00	0.01	0.00
1.73	2.00	0.00	0.00	0.01	0.00	1.74	2.00	0.00	0.00	0.01	0.00
1.75	2.00	0.00	0.00	0.01	0.00	1.76	2.00	0.00	0.00	0.01	0.00
1.77	2.00	0.00	0.00	0.01	0.00	1.78	2.00	0.00	0.00	0.01	0.00
1.79	2.00	0.00	0.00	0.01	0.00	1.80	2.00	0.00	0.00	0.01	0.00
1.81	2.00	0.00	0.00	0.01	0.00	1.82	2.00	0.00	0.00	0.01	0.00
1.83	2.00	0.00	0.00	0.01	0.00	1.84	2.00	0.00	0.00	0.01	0.00
1.85	2.00	0.00	0.00	0.01	0.00	1.86	2.00	0.00	0.00	0.01	0.00
1.87	2.00	0.00	0.00	0.01	0.00	1.88	2.00	0.00	0.00	0.01	0.00
1.89	2.00	0.00	0.00	0.01	0.00	1.90	2.00	0.00	0.00	0.01	0.00
1.91	2.00	0.00	0.00	0.01	0.00	1.92	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.93	2.00	0.00	0.00	0.01	0.00	1.94	2.00	0.00	0.00	0.01	0.00
1.95	2.00	0.00	0.00	0.01	0.00	1.96	2.00	0.00	0.00	0.01	0.00
1.97	2.00	0.00	0.00	0.01	0.00	1.98	2.00	0.00	0.00	0.01	0.00
1.99	2.00	0.00	0.00	0.01	0.00	2.00	2.00	0.00	0.00	0.01	0.00
2.01	2.00	0.00	0.00	0.01	0.00	2.02	2.00	0.00	0.00	0.01	0.00
2.03	2.00	0.00	0.00	0.01	0.00	2.04	2.00	0.00	0.00	0.01	0.00
2.05	2.00	0.00	0.00	0.01	0.00	2.06	2.00	0.00	0.00	0.01	0.00
2.07	2.00	0.00	0.00	0.01	0.00	2.08	2.00	0.00	0.00	0.01	0.00
2.09	2.00	0.00	0.00	0.01	0.00	2.10	2.00	0.00	0.00	0.01	0.00
2.11	2.00	0.00	0.00	0.01	0.00	2.12	2.00	0.00	0.00	0.01	0.00
2.13	2.00	0.00	0.00	0.01	0.00	2.14	2.00	0.00	0.00	0.01	0.00
2.15	2.00	0.00	0.00	0.01	0.00	2.16	2.00	0.00	0.00	0.01	0.00
2.17	2.00	0.00	0.00	0.01	0.00	2.18	2.00	0.00	0.00	0.01	0.00
2.19	2.00	0.00	0.00	0.01	0.00	2.20	2.00	0.00	0.00	0.01	0.00
2.21	2.00	0.00	0.00	0.01	0.00	2.22	2.00	0.00	0.00	0.01	0.00
2.23	2.00	0.00	0.00	0.01	0.00	2.24	2.00	0.00	0.00	0.01	0.00
2.25	2.00	0.00	0.00	0.01	0.00	2.26	2.00	0.00	0.00	0.01	0.00
2.27	2.00	0.00	0.00	0.01	0.00	2.28	2.00	0.00	0.00	0.01	0.00
2.29	2.00	0.00	0.00	0.01	0.00	2.30	2.00	0.00	0.00	0.01	0.00
2.31	2.00	0.00	0.00	0.01	0.00	2.32	2.00	0.00	0.00	0.01	0.00
2.33	2.00	0.00	0.00	0.01	0.00	2.34	2.00	0.00	0.00	0.01	0.00
2.35	2.00	0.00	0.00	0.01	0.00	2.36	2.00	0.00	0.00	0.01	0.00
2.37	2.00	0.00	0.00	0.01	0.00	2.38	2.00	0.00	0.00	0.01	0.00
2.39	2.00	0.00	0.00	0.01	0.00	2.40	2.00	0.00	0.00	0.01	0.00
2.41	2.00	0.00	0.00	0.01	0.00	2.42	2.00	0.00	0.00	0.01	0.00
2.43	2.00	0.00	0.00	0.01	0.00	2.44	2.00	0.00	0.00	0.01	0.00
2.45	2.00	0.00	0.00	0.01	0.00	2.46	2.00	0.00	0.00	0.01	0.00
2.47	2.00	0.00	0.00	0.01	0.00	2.48	2.00	0.00	0.00	0.01	0.00
2.49	2.00	0.00	0.00	0.01	0.00	2.50	2.00	0.00	0.00	0.01	0.00
2.51	2.00	0.00	0.00	0.01	0.00	2.52	2.00	0.00	0.00	0.01	0.00
2.53	2.00	0.00	0.00	0.01	0.00	2.54	2.00	0.00	0.00	0.01	0.00
2.55	2.00	0.00	0.00	0.01	0.00	2.56	2.00	0.00	0.00	0.01	0.00
2.57	2.00	0.00	0.00	0.01	0.00	2.58	2.00	0.00	0.00	0.01	0.00
2.59	2.00	0.00	0.00	0.01	0.00	2.60	2.00	0.00	0.00	0.01	0.00
2.61	2.00	0.00	0.00	0.01	0.00	2.62	2.00	0.00	0.00	0.01	0.00
2.63	2.00	0.00	0.00	0.01	0.00	2.64	2.00	0.00	0.00	0.01	0.00
2.65	2.00	0.00	0.00	0.01	0.00	2.66	2.00	0.00	0.00	0.01	0.00
2.67	2.00	0.00	0.00	0.01	0.00	2.68	2.00	0.00	0.00	0.01	0.00
2.69	2.00	0.00	0.00	0.01	0.00	2.70	2.00	0.00	0.00	0.01	0.00
2.71	2.00	0.00	0.00	0.01	0.00	2.72	2.00	0.00	0.00	0.01	0.00
2.73	2.00	0.00	0.00	0.01	0.00	2.74	2.00	0.00	0.00	0.01	0.00
2.75	2.00	0.00	0.00	0.01	0.00	2.76	2.00	0.00	0.00	0.01	0.00
2.77	2.00	0.00	0.00	0.01	0.00	2.78	2.00	0.00	0.00	0.01	0.00
2.79	2.00	0.00	0.00	0.01	0.00	2.80	2.00	0.00	0.00	0.01	0.00
2.81	2.00	0.00	0.00	0.01	0.00	2.82	2.00	0.00	0.00	0.01	0.00
2.83	2.00	0.00	0.00	0.01	0.00	2.84	2.00	0.00	0.00	0.01	0.00
2.85	2.00	0.00	0.00	0.01	0.00	2.86	2.00	0.00	0.00	0.01	0.00
2.87	2.00	0.00	0.00	0.01	0.00	2.88	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.89	2.00	0.00	0.00	0.01	0.00	2.90	2.00	0.00	0.00	0.01	0.00
2.91	2.00	0.00	0.00	0.01	0.00	2.92	2.00	0.00	0.00	0.01	0.00
2.93	2.00	0.00	0.00	0.01	0.00	2.94	2.00	0.00	0.00	0.01	0.00
2.95	2.00	0.00	0.00	0.01	0.00	2.96	2.00	0.00	0.00	0.01	0.00
2.97	2.00	0.00	0.00	0.01	0.00	2.98	2.00	0.00	0.00	0.01	0.00
2.99	2.00	0.00	0.00	0.01	0.00	3.00	2.00	0.00	0.00	0.01	0.00
3.01	2.00	0.00	0.00	0.01	0.00	3.02	2.00	0.00	0.00	0.01	0.00
3.03	2.00	0.00	0.00	0.01	0.00	3.04	2.00	0.00	0.00	0.01	0.00
3.05	2.00	0.00	0.00	0.01	0.00	3.06	2.00	0.00	0.00	0.01	0.00
3.07	2.00	0.00	0.00	0.01	0.00	3.08	2.00	0.00	0.00	0.01	0.00
3.09	2.00	0.00	0.00	0.01	0.00	3.10	2.00	0.00	0.00	0.01	0.00
3.11	2.00	0.00	0.00	0.01	0.00	3.12	2.00	0.00	0.00	0.01	0.00
3.13	2.00	0.00	0.00	0.01	0.00	3.14	2.00	0.00	0.00	0.01	0.00
3.15	2.00	0.00	0.00	0.01	0.00	3.16	2.00	0.00	0.00	0.01	0.00
3.17	2.00	0.00	0.00	0.01	0.00	3.18	2.00	0.00	0.00	0.01	0.00
3.19	2.00	0.00	0.00	0.01	0.00	3.20	2.00	0.00	0.00	0.01	0.00
3.21	2.00	0.00	0.00	0.01	0.00	3.22	2.00	0.00	0.00	0.01	0.00
3.23	2.00	0.00	0.00	0.01	0.00	3.24	2.00	0.00	0.00	0.01	0.00
3.25	2.00	0.00	0.00	0.01	0.00	3.26	2.00	0.00	0.00	0.01	0.00
3.27	2.00	0.00	0.00	0.01	0.00	3.28	2.00	0.00	0.00	0.01	0.00
3.29	2.00	0.00	0.00	0.01	0.00	3.30	2.00	0.00	0.00	0.01	0.00
3.31	2.00	0.00	0.00	0.01	0.00	3.32	2.00	0.00	0.00	0.01	0.00
3.33	2.00	0.00	0.00	0.01	0.00	3.34	2.00	0.00	0.00	0.01	0.00
3.35	2.00	0.00	0.00	0.01	0.00	3.36	2.00	0.00	0.00	0.01	0.00
3.37	2.00	0.00	0.00	0.01	0.00	3.38	2.00	0.00	0.00	0.01	0.00
3.39	2.00	0.00	0.00	0.01	0.00	3.40	2.00	0.00	0.00	0.01	0.00
3.41	2.00	0.00	0.00	0.01	0.00	3.42	2.00	0.00	0.00	0.01	0.00
3.43	2.00	0.00	0.00	0.01	0.00	3.44	2.00	0.00	0.00	0.01	0.00
3.45	2.00	0.00	0.00	0.01	0.00	3.46	2.00	0.00	0.00	0.01	0.00
3.47	2.00	0.00	0.00	0.01	0.00	3.48	2.00	0.00	0.00	0.01	0.00
3.49	2.00	0.00	0.00	0.01	0.00	3.50	2.00	0.00	0.00	0.01	0.00
3.51	2.00	0.00	0.00	0.01	0.00	3.52	2.00	0.00	0.00	0.01	0.00
3.53	2.00	0.00	0.00	0.01	0.00	3.54	2.00	0.00	0.00	0.01	0.00
3.55	2.00	0.00	0.00	0.01	0.00	3.56	2.00	0.00	0.00	0.01	0.00
3.57	2.00	0.00	0.00	0.01	0.00	3.58	2.00	0.00	0.00	0.01	0.00
3.59	2.00	0.00	0.00	0.01	0.00	3.60	2.00	0.00	0.00	0.01	0.00
3.61	2.00	0.00	0.00	0.01	0.00	3.62	2.00	0.00	0.00	0.01	0.00
3.63	2.00	0.00	0.00	0.01	0.00	3.64	2.00	0.00	0.00	0.01	0.00
3.65	2.00	0.00	0.00	0.01	0.00	3.66	2.00	0.00	0.00	0.01	0.00
3.67	2.00	0.00	0.00	0.01	0.00	3.68	2.00	0.00	0.00	0.01	0.00
3.69	2.00	0.00	0.00	0.01	0.00	3.70	2.00	0.00	0.00	0.01	0.00
3.71	2.00	0.00	0.00	0.01	0.00	3.72	2.00	0.00	0.00	0.01	0.00
3.73	2.00	0.00	0.00	0.01	0.00	3.74	2.00	0.00	0.00	0.01	0.00
3.75	2.00	0.00	0.00	0.01	0.00	3.76	2.00	0.00	0.00	0.01	0.00
3.77	2.00	0.00	0.00	0.01	0.00	3.78	2.00	0.00	0.00	0.01	0.00
3.79	2.00	0.00	0.00	0.01	0.00	3.80	2.00	0.00	0.00	0.01	0.00
3.81	2.00	0.00	0.00	0.01	0.00	3.82	2.00	0.00	0.00	0.01	0.00
3.83	2.00	0.00	0.00	0.01	0.00	3.84	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.85	2.00	0.00	0.00	0.01	0.00	3.86	2.00	0.00	0.00	0.01	0.00
3.87	2.00	0.00	0.00	0.01	0.00	3.88	2.00	0.00	0.00	0.01	0.00
3.89	2.00	0.00	0.00	0.01	0.00	3.90	2.00	0.00	0.00	0.01	0.00
3.91	2.00	0.00	0.00	0.01	0.00	3.92	2.00	0.00	0.00	0.01	0.00
3.93	2.00	0.00	0.00	0.01	0.00	3.94	2.00	0.00	0.00	0.01	0.00
3.95	2.00	0.00	0.00	0.01	0.00	3.96	2.00	0.00	0.00	0.01	0.00
3.97	2.00	0.00	0.00	0.01	0.00	3.98	2.00	0.00	0.00	0.01	0.00
3.99	2.00	0.00	0.00	0.01	0.00	4.00	2.00	0.00	0.00	0.01	0.00
4.01	2.00	0.00	0.00	0.01	0.00	4.02	2.00	0.00	0.00	0.01	0.00
4.03	2.00	0.00	0.00	0.01	0.00	4.04	2.00	0.00	0.00	0.01	0.00
4.05	2.00	0.00	0.00	0.01	0.00	4.06	2.00	0.00	0.00	0.01	0.00
4.07	2.00	0.00	0.00	0.01	0.00	4.08	2.00	0.00	0.00	0.01	0.00
4.09	2.00	0.00	0.00	0.01	0.00	4.10	2.00	0.00	0.00	0.01	0.00
4.11	2.00	0.00	0.00	0.01	0.00	4.12	2.00	0.00	0.00	0.01	0.00
4.13	2.00	0.00	0.00	0.01	0.00	4.14	2.00	0.00	0.00	0.01	0.00
4.15	2.00	0.00	0.00	0.01	0.00	4.16	2.00	0.00	0.00	0.01	0.00
4.17	2.00	0.00	0.00	0.01	0.00	4.18	2.00	0.00	0.00	0.01	0.00
4.19	2.00	0.00	0.00	0.01	0.00	4.20	2.00	0.00	0.00	0.01	0.00
4.21	2.00	0.00	0.00	0.01	0.00	4.22	2.00	0.00	0.00	0.01	0.00
4.23	2.00	0.00	0.00	0.01	0.00	4.24	2.00	0.00	0.00	0.01	0.00
4.25	2.00	0.00	0.00	0.01	0.00	4.26	2.00	0.00	0.00	0.01	0.00
4.27	2.00	0.00	0.00	0.01	0.00	4.28	2.00	0.00	0.00	0.01	0.00
4.29	2.00	0.00	0.00	0.01	0.00	4.30	2.00	0.00	0.00	0.01	0.00
4.31	2.00	0.00	0.00	0.01	0.00	4.32	2.00	0.00	0.00	0.01	0.00
4.33	2.00	0.00	0.00	0.01	0.00	4.34	2.00	0.00	0.00	0.01	0.00
4.35	2.00	0.00	0.00	0.01	0.00	4.36	2.00	0.00	0.00	0.01	0.00
4.37	2.00	0.00	0.00	0.01	0.00	4.38	2.00	0.00	0.00	0.01	0.00
4.39	2.00	0.00	0.00	0.01	0.00	4.40	2.00	0.00	0.00	0.01	0.00
4.41	2.00	0.00	0.00	0.01	0.00	4.42	2.00	0.00	0.00	0.01	0.00
4.43	2.00	0.00	0.00	0.01	0.00	4.44	2.00	0.00	0.00	0.01	0.00
4.45	2.00	0.00	0.00	0.01	0.00	4.46	2.00	0.00	0.00	0.01	0.00
4.47	2.00	0.00	0.00	0.01	0.00	4.48	2.00	0.00	0.00	0.01	0.00
4.49	2.00	0.00	0.00	0.01	0.00	4.50	2.00	0.00	0.00	0.01	0.00
4.51	2.00	0.00	0.00	0.01	0.00	4.52	2.00	0.00	0.00	0.01	0.00
4.53	2.00	0.00	0.00	0.01	0.00	4.54	2.00	0.00	0.00	0.01	0.00
4.55	2.00	0.00	0.00	0.01	0.00	4.56	2.00	0.00	0.00	0.01	0.00
4.57	2.00	0.00	0.00	0.01	0.00	4.58	2.00	0.00	0.00	0.01	0.00
4.59	2.00	0.00	0.00	0.01	0.00	4.60	2.00	0.00	0.00	0.01	0.00
4.61	2.00	0.00	0.00	0.01	0.00	4.62	2.00	0.00	0.00	0.01	0.00
4.63	2.00	0.00	0.00	0.01	0.00	4.64	2.00	0.00	0.00	0.01	0.00
4.65	2.00	0.00	0.00	0.01	0.00	4.66	2.00	0.00	0.00	0.01	0.00
4.67	2.00	0.00	0.00	0.01	0.00	4.68	2.00	0.00	0.00	0.01	0.00
4.69	2.00	0.00	0.00	0.01	0.00	4.70	2.00	0.00	0.00	0.01	0.00
4.71	2.00	0.00	0.00	0.01	0.00	4.72	2.00	0.00	0.00	0.01	0.00
4.73	2.00	0.00	0.00	0.01	0.00	4.74	2.00	0.00	0.00	0.01	0.00
4.75	2.00	0.00	0.00	0.01	0.00	4.76	2.00	0.00	0.00	0.01	0.00
4.77	2.00	0.00	0.00	0.01	0.00	4.78	2.00	0.00	0.00	0.01	0.00
4.79	2.00	0.00	0.00	0.01	0.00	4.80	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.81	2.00	0.00	0.00	0.01	0.00	4.82	2.00	0.00	0.00	0.01	0.00
4.83	2.00	0.00	0.00	0.01	0.00	4.84	2.00	0.00	0.00	0.01	0.00
4.85	2.00	0.00	0.00	0.01	0.00	4.86	2.00	0.00	0.00	0.01	0.00
4.87	2.00	0.00	0.00	0.01	0.00	4.88	2.00	0.00	0.00	0.01	0.00
4.89	2.00	0.00	0.00	0.01	0.00	4.90	2.00	0.00	0.00	0.01	0.00
4.91	2.00	0.00	0.00	0.01	0.00	4.92	2.00	0.00	0.00	0.01	0.00
4.93	2.00	0.00	0.00	0.01	0.00	4.94	2.00	0.00	0.00	0.01	0.00
4.95	2.00	0.00	0.00	0.01	0.00	4.96	2.00	0.00	0.00	0.01	0.00
4.97	2.00	0.00	0.00	0.01	0.00	4.98	2.00	0.00	0.00	0.01	0.00
4.99	2.00	0.00	0.00	0.01	0.00	5.00	2.00	0.00	0.00	0.01	0.00
5.01	2.00	0.00	0.00	0.01	0.00	5.02	2.00	0.00	0.00	0.01	0.00
5.03	2.00	0.00	0.00	0.01	0.00	5.04	2.00	0.00	0.00	0.01	0.00
5.05	2.00	0.00	0.00	0.01	0.00	5.06	2.00	0.00	0.00	0.01	0.00
5.07	2.00	0.00	0.00	0.01	0.00	5.08	2.00	0.00	0.00	0.01	0.00
5.09	2.00	0.00	0.00	0.01	0.00	5.10	2.00	0.00	0.00	0.01	0.00
5.11	2.00	0.00	0.00	0.01	0.00	5.12	2.00	0.00	0.00	0.01	0.00
5.13	2.00	0.00	0.00	0.01	0.00	5.14	2.00	0.00	0.00	0.01	0.00
5.15	2.00	0.00	0.00	0.01	0.00	5.16	2.00	0.00	0.00	0.01	0.00
5.17	2.00	0.00	0.00	0.01	0.00	5.18	2.00	0.00	0.00	0.01	0.00
5.19	2.00	0.00	0.00	0.01	0.00	5.20	2.00	0.00	0.00	0.01	0.00
5.21	2.00	0.00	0.00	0.01	0.00	5.22	2.00	0.00	0.00	0.01	0.00
5.23	2.00	0.00	0.00	0.01	0.00	5.24	2.00	0.00	0.00	0.01	0.00
5.25	2.00	0.00	0.00	0.01	0.00	5.26	2.00	0.00	0.00	0.01	0.00
5.27	2.00	0.00	0.00	0.01	0.00	5.28	2.00	0.00	0.00	0.01	0.00
5.29	2.00	0.00	0.00	0.01	0.00	5.30	2.00	0.00	0.00	0.01	0.00
5.31	2.00	0.00	0.00	0.01	0.00	5.32	2.00	0.00	0.00	0.01	0.00
5.33	2.00	0.00	0.00	0.01	0.00	5.34	2.00	0.00	0.00	0.01	0.00
5.35	2.00	0.00	0.00	0.01	0.00	5.36	2.00	0.00	0.00	0.01	0.00
5.37	2.00	0.00	0.00	0.01	0.00	5.38	2.00	0.00	0.00	0.01	0.00
5.39	2.00	0.00	0.00	0.01	0.00	5.40	2.00	0.00	0.00	0.01	0.00
5.41	2.00	0.00	0.00	0.01	0.00	5.42	2.00	0.00	0.00	0.01	0.00
5.43	2.00	0.00	0.00	0.01	0.00	5.44	2.00	0.00	0.00	0.01	0.00
5.45	2.00	0.00	0.00	0.01	0.00	5.46	2.00	0.00	0.00	0.01	0.00
5.47	2.00	0.00	0.00	0.01	0.00	5.48	2.00	0.00	0.00	0.01	0.00
5.49	2.00	0.00	0.00	0.01	0.00	5.50	2.00	0.00	0.00	0.01	0.00
5.51	2.00	0.00	0.00	0.01	0.00	5.52	2.00	0.00	0.00	0.01	0.00
5.53	2.00	0.00	0.00	0.01	0.00	5.54	2.00	0.00	0.00	0.01	0.00
5.55	2.00	0.00	0.00	0.01	0.00	5.56	2.00	0.00	0.00	0.01	0.00
5.57	2.00	0.00	0.00	0.01	0.00	5.58	2.00	0.00	0.00	0.01	0.00
5.59	2.00	0.00	0.00	0.01	0.00	5.60	2.00	0.00	0.00	0.01	0.00
5.61	2.00	0.00	0.00	0.01	0.00	5.62	2.00	0.00	0.00	0.01	0.00
5.63	2.00	0.00	0.00	0.01	0.00	5.64	2.00	0.00	0.00	0.01	0.00
5.65	2.00	0.00	0.00	0.01	0.00	5.66	2.00	0.00	0.00	0.01	0.00
5.67	2.00	0.00	0.00	0.01	0.00	5.68	2.00	0.00	0.00	0.01	0.00
5.69	2.00	0.00	0.00	0.01	0.00	5.70	2.00	0.00	0.00	0.01	0.00
5.71	2.00	0.00	0.00	0.01	0.00	5.72	2.00	0.00	0.00	0.01	0.00
5.73	2.00	0.00	0.00	0.01	0.00	5.74	2.00	0.00	0.00	0.01	0.00
5.75	2.00	0.00	0.00	0.01	0.00	5.76	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.77	2.00	0.00	0.00	0.01	0.00	5.78	2.00	0.00	0.00	0.01	0.00
5.79	2.00	0.00	0.00	0.01	0.00	5.80	2.00	0.00	0.00	0.01	0.00
5.81	2.00	0.00	0.00	0.01	0.00	5.82	2.00	0.00	0.00	0.01	0.00
5.83	2.00	0.00	0.00	0.01	0.00	5.84	2.00	0.00	0.00	0.01	0.00
5.85	2.00	0.00	0.00	0.01	0.00	5.86	2.00	0.00	0.00	0.01	0.00
5.87	2.00	0.00	0.00	0.01	0.00	5.88	2.00	0.00	0.00	0.01	0.00
5.89	2.00	0.00	0.00	0.01	0.00	5.90	2.00	0.00	0.00	0.01	0.00
5.91	2.00	0.00	0.00	0.01	0.00	5.92	2.00	0.00	0.00	0.01	0.00
5.93	2.00	0.00	0.00	0.01	0.00	5.94	2.00	0.00	0.00	0.01	0.00
5.95	2.00	0.00	0.00	0.01	0.00	5.96	2.00	0.00	0.00	0.01	0.00
5.97	2.00	0.00	0.00	0.01	0.00	5.98	2.00	0.00	0.00	0.01	0.00
5.99	2.00	0.00	0.00	0.01	0.00	6.00	2.00	0.00	0.00	0.01	0.00
6.01	2.00	0.00	0.00	0.01	0.00	6.02	2.00	0.00	0.00	0.01	0.00
6.03	2.00	0.00	0.00	0.01	0.00	6.04	2.00	0.00	0.00	0.01	0.00
6.05	2.00	0.00	0.00	0.01	0.00	6.06	2.00	0.00	0.00	0.01	0.00
6.07	2.00	0.00	0.00	0.01	0.00	6.08	2.00	0.00	0.00	0.01	0.00
6.09	2.00	0.00	0.00	0.01	0.00	6.10	2.00	0.00	0.00	0.01	0.00
6.11	2.00	0.00	0.00	0.01	0.00	6.12	2.00	0.00	0.00	0.01	0.00
6.13	2.00	0.00	0.00	0.01	0.00	6.14	2.00	0.00	0.00	0.01	0.00
6.15	2.00	0.00	0.00	0.01	0.00	6.16	2.00	0.00	0.00	0.01	0.00
6.17	2.00	0.00	0.00	0.01	0.00	6.18	2.00	0.00	0.00	0.01	0.00
6.19	2.00	0.00	0.00	0.01	0.00	6.20	2.00	0.00	0.00	0.01	0.00
6.21	2.00	0.00	0.00	0.01	0.00	6.22	2.00	0.00	0.00	0.01	0.00
6.23	2.00	0.00	0.00	0.01	0.00	6.24	2.00	0.00	0.00	0.01	0.00
6.25	2.00	0.00	0.00	0.01	0.00	6.26	2.00	0.00	0.00	0.01	0.00
6.27	2.00	0.00	0.00	0.01	0.00	6.28	2.00	0.00	0.00	0.01	0.00
6.29	2.00	0.00	0.00	0.01	0.00	6.30	2.00	0.00	0.00	0.01	0.00
6.31	2.00	0.00	0.00	0.01	0.00	6.32	2.00	0.00	0.00	0.01	0.00
6.33	2.00	0.00	0.00	0.01	0.00	6.34	2.00	0.00	0.00	0.01	0.00
6.35	2.00	0.00	0.00	0.01	0.00	6.36	2.00	0.00	0.00	0.01	0.00
6.37	2.00	0.00	0.00	0.01	0.00	6.38	2.00	0.00	0.00	0.01	0.00
6.39	2.00	0.00	0.00	0.01	0.00	6.40	2.00	0.00	0.00	0.01	0.00
6.41	2.00	0.00	0.00	0.01	0.00	6.42	2.00	0.00	0.00	0.01	0.00
6.43	2.00	0.00	0.00	0.01	0.00	6.44	2.00	0.00	0.00	0.01	0.00
6.45	2.00	0.00	0.00	0.01	0.00	6.46	2.00	0.00	0.00	0.01	0.00
6.47	2.00	0.00	0.00	0.01	0.00	6.48	2.00	0.00	0.00	0.01	0.00
6.49	2.00	0.00	0.00	0.01	0.00	6.50	2.00	0.00	0.00	0.01	0.00
6.51	2.00	0.00	0.00	0.01	0.00	6.52	2.00	0.00	0.00	0.01	0.00
6.53	2.00	0.00	0.00	0.01	0.00	6.54	2.00	0.00	0.00	0.01	0.00
6.55	2.00	0.00	0.00	0.01	0.00	6.56	2.00	0.00	0.00	0.01	0.00
6.57	2.00	0.00	0.00	0.01	0.00	6.58	2.00	0.00	0.00	0.01	0.00
6.59	2.00	0.00	0.00	0.01	0.00	6.60	2.00	0.00	0.00	0.01	0.00
6.61	2.00	0.00	0.00	0.01	0.00	6.62	2.00	0.00	0.00	0.01	0.00
6.63	2.00	0.00	0.00	0.01	0.00	6.64	2.00	0.00	0.00	0.01	0.00
6.65	2.00	0.00	0.00	0.01	0.00	6.66	2.00	0.00	0.00	0.01	0.00
6.67	2.00	0.00	0.00	0.01	0.00	6.68	2.00	0.00	0.00	0.01	0.00
6.69	2.00	0.00	0.00	0.01	0.00	6.70	2.00	0.00	0.00	0.01	0.00
6.71	2.00	0.00	0.00	0.01	0.00	6.72	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.73	2.00	0.00	0.00	0.01	0.00	6.74	2.00	0.00	0.00	0.01	0.00
6.75	2.00	0.00	0.00	0.01	0.00	6.76	2.00	0.00	0.00	0.01	0.00
6.77	2.00	0.00	0.00	0.01	0.00	6.78	2.00	0.00	0.00	0.01	0.00
6.79	2.00	0.00	0.00	0.01	0.00	6.80	2.00	0.00	0.00	0.01	0.00
6.81	2.00	0.00	0.00	0.01	0.00	6.82	2.00	0.00	0.00	0.01	0.00
6.83	2.00	0.00	0.00	0.01	0.00	6.84	2.00	0.00	0.00	0.01	0.00
6.85	2.00	0.00	0.00	0.01	0.00	6.86	2.00	0.00	0.00	0.01	0.00
6.87	2.00	0.00	0.00	0.01	0.00	6.88	2.00	0.00	0.00	0.01	0.00
6.89	2.00	0.00	0.00	0.01	0.00	6.90	2.00	0.00	0.00	0.01	0.00
6.91	2.00	0.00	0.00	0.01	0.00	6.92	2.00	0.00	0.00	0.01	0.00
6.93	2.00	0.00	0.00	0.01	0.00	6.94	2.00	0.00	0.00	0.01	0.00
6.95	2.00	0.00	0.00	0.01	0.00	6.96	2.00	0.00	0.00	0.01	0.00
6.97	2.00	0.00	0.00	0.01	0.00	6.98	2.00	0.00	0.00	0.01	0.00
6.99	2.00	0.00	0.00	0.01	0.00	7.00	2.00	0.00	0.00	0.01	0.00
7.01	2.00	0.00	0.00	0.01	0.00	7.02	2.00	0.00	0.00	0.01	0.00
7.03	2.00	0.00	0.00	0.01	0.00	7.04	2.00	0.00	0.00	0.01	0.00
7.05	2.00	0.00	0.00	0.01	0.00	7.06	2.00	0.00	0.00	0.01	0.00
7.07	2.00	0.00	0.00	0.01	0.00	7.08	2.00	0.00	0.00	0.01	0.00
7.09	2.00	0.00	0.00	0.01	0.00	7.10	2.00	0.00	0.00	0.01	0.00
7.11	2.00	0.00	0.00	0.01	0.00	7.12	2.00	0.00	0.00	0.01	0.00
7.13	2.00	0.00	0.00	0.01	0.00	7.14	2.00	0.00	0.00	0.01	0.00
7.15	2.00	0.00	0.00	0.01	0.00	7.16	2.00	0.00	0.00	0.01	0.00
7.17	2.00	0.00	0.00	0.01	0.00	7.18	2.00	0.00	0.00	0.01	0.00
7.19	2.00	0.00	0.00	0.01	0.00	7.20	2.00	0.00	0.00	0.01	0.00
7.21	2.00	0.00	0.00	0.01	0.00	7.22	2.00	0.00	0.00	0.01	0.00
7.23	2.00	0.00	0.00	0.01	0.00	7.24	2.00	0.00	0.00	0.01	0.00
7.25	2.00	0.00	0.00	0.01	0.00	7.26	2.00	0.00	0.00	0.01	0.00
7.27	2.00	0.00	0.00	0.01	0.00	7.28	2.00	0.00	0.00	0.01	0.00
7.29	2.00	0.00	0.00	0.01	0.00	7.30	2.00	0.00	0.00	0.01	0.00
7.31	2.00	0.00	0.00	0.01	0.00	7.32	2.00	0.00	0.00	0.01	0.00
7.33	2.00	0.00	0.00	0.01	0.00	7.34	2.00	0.00	0.00	0.01	0.00
7.35	2.00	0.00	0.00	0.01	0.00	7.36	2.00	0.00	0.00	0.01	0.00
7.37	2.00	0.00	0.00	0.01	0.00	7.38	2.00	0.00	0.00	0.01	0.00
7.39	2.00	0.00	0.00	0.01	0.00	7.40	2.00	0.00	0.00	0.01	0.00
7.41	2.00	0.00	0.00	0.01	0.00	7.42	2.00	0.00	0.00	0.01	0.00
7.43	2.00	0.00	0.00	0.01	0.00	7.44	2.00	0.00	0.00	0.01	0.00
7.45	2.00	0.00	0.00	0.01	0.00	7.46	2.00	0.00	0.00	0.01	0.00
7.47	2.00	0.00	0.00	0.01	0.00	7.48	2.00	0.00	0.00	0.01	0.00
7.49	2.00	0.00	0.00	0.01	0.00	7.50	2.00	0.00	0.00	0.01	0.00
7.51	2.00	0.00	0.00	0.01	0.00	7.52	2.00	0.00	0.00	0.01	0.00
7.53	2.00	0.00	0.00	0.01	0.00	7.54	2.00	0.00	0.00	0.01	0.00
7.55	2.00	0.00	0.00	0.01	0.00	7.56	2.00	0.00	0.00	0.01	0.00
7.57	2.00	0.00	0.00	0.01	0.00	7.58	2.00	0.00	0.00	0.01	0.00
7.59	2.00	0.00	0.00	0.01	0.00	7.60	2.00	0.00	0.00	0.01	0.00
7.61	2.00	0.00	0.00	0.01	0.00	7.62	2.00	0.00	0.00	0.01	0.00
7.63	2.00	0.00	0.00	0.01	0.00	7.64	2.00	0.00	0.00	0.01	0.00
7.65	2.00	0.00	0.00	0.01	0.00	7.66	2.00	0.00	0.00	0.01	0.00
7.67	2.00	0.00	0.00	0.01	0.00	7.68	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.69	2.00	0.00	0.00	0.01	0.00	7.70	2.00	0.00	0.00	0.01	0.00
7.71	2.00	0.00	0.00	0.01	0.00	7.72	2.00	0.00	0.00	0.01	0.00
7.73	2.00	0.00	0.00	0.01	0.00	7.74	2.00	0.00	0.00	0.01	0.00
7.75	2.00	0.00	0.00	0.01	0.00	7.76	2.00	0.00	0.00	0.01	0.00
7.77	2.00	0.00	0.00	0.01	0.00	7.78	2.00	0.00	0.00	0.01	0.00
7.79	2.00	0.00	0.00	0.01	0.00	7.80	2.00	0.00	0.00	0.01	0.00
7.81	2.00	0.00	0.00	0.01	0.00	7.82	2.00	0.00	0.00	0.01	0.00
7.83	2.00	0.00	0.00	0.01	0.00	7.84	2.00	0.00	0.00	0.01	0.00
7.85	2.00	0.00	0.00	0.01	0.00	7.86	2.00	0.00	0.00	0.01	0.00
7.87	2.00	0.00	0.00	0.01	0.00	7.88	2.00	0.00	0.00	0.01	0.00
7.89	2.00	0.00	0.00	0.01	0.00	7.90	2.00	0.00	0.00	0.01	0.00
7.91	2.00	0.00	0.00	0.01	0.00	7.92	2.00	0.00	0.00	0.01	0.00
7.93	2.00	0.00	0.00	0.01	0.00	7.94	2.00	0.00	0.00	0.01	0.00
7.95	2.00	0.00	0.00	0.01	0.00	7.96	2.00	0.00	0.00	0.01	0.00
7.97	2.00	0.00	0.00	0.01	0.00	7.98	2.00	0.00	0.00	0.01	0.00
7.99	2.00	0.00	0.00	0.01	0.00	8.00	2.00	0.00	0.00	0.01	0.00
8.01	2.00	0.00	0.00	0.01	0.00	8.02	2.00	0.00	0.00	0.01	0.00
8.03	2.00	0.00	0.00	0.01	0.00	8.04	2.00	0.00	0.00	0.01	0.00
8.05	2.00	0.00	0.00	0.01	0.00	8.06	2.00	0.00	0.00	0.01	0.00
8.07	2.00	0.00	0.00	0.01	0.00	8.08	2.00	0.00	0.00	0.01	0.00
8.09	2.00	0.00	0.00	0.01	0.00	8.10	2.00	0.00	0.00	0.01	0.00
8.11	2.00	0.00	0.00	0.01	0.00	8.12	2.00	0.00	0.00	0.01	0.00
8.13	2.00	0.00	0.00	0.01	0.00	8.14	2.00	0.00	0.00	0.01	0.00
8.15	2.00	0.00	0.00	0.01	0.00	8.16	2.00	0.00	0.00	0.01	0.00
8.17	2.00	0.00	0.00	0.01	0.00	8.18	2.00	0.00	0.00	0.01	0.00
8.19	2.00	0.00	0.00	0.01	0.00	8.20	2.00	0.00	0.00	0.01	0.00
8.21	2.00	0.00	0.00	0.01	0.00	8.22	2.00	0.00	0.00	0.01	0.00
8.23	2.00	0.00	0.00	0.01	0.00	8.24	2.00	0.00	0.00	0.01	0.00
8.25	2.00	0.00	0.00	0.01	0.00	8.26	2.00	0.00	0.00	0.01	0.00
8.27	2.00	0.00	0.00	0.01	0.00	8.28	2.00	0.00	0.00	0.01	0.00
8.29	2.00	0.00	0.00	0.01	0.00	8.30	2.00	0.00	0.00	0.01	0.00
8.31	2.00	0.00	0.00	0.01	0.00	8.32	2.00	0.00	0.00	0.01	0.00
8.33	2.00	0.00	0.00	0.01	0.00	8.34	2.00	0.00	0.00	0.01	0.00
8.35	2.00	0.00	0.00	0.01	0.00	8.36	2.00	0.00	0.00	0.01	0.00
8.37	2.00	0.00	0.00	0.01	0.00	8.38	2.00	0.00	0.00	0.01	0.00
8.39	2.00	0.00	0.00	0.01	0.00	8.40	2.00	0.00	0.00	0.01	0.00
8.41	2.00	0.00	0.00	0.01	0.00	8.42	2.00	0.00	0.00	0.01	0.00
8.43	2.00	0.00	0.00	0.01	0.00	8.44	2.00	0.00	0.00	0.01	0.00
8.45	2.00	0.00	0.00	0.01	0.00	8.46	2.00	0.00	0.00	0.01	0.00
8.47	2.00	0.00	0.00	0.01	0.00	8.48	2.00	0.00	0.00	0.01	0.00
8.49	2.00	0.00	0.00	0.01	0.00	8.50	2.00	0.00	0.00	0.01	0.00
8.51	2.00	0.00	0.00	0.01	0.00	8.52	2.00	0.00	0.00	0.01	0.00
8.53	2.00	0.00	0.00	0.01	0.00	8.54	2.00	0.00	0.00	0.01	0.00
8.55	2.00	0.00	0.00	0.01	0.00	8.56	2.00	0.00	0.00	0.01	0.00
8.57	2.00	0.00	0.00	0.01	0.00	8.58	2.00	0.00	0.00	0.01	0.00
8.59	2.00	0.00	0.00	0.01	0.00	8.60	2.00	0.00	0.00	0.01	0.00
8.61	2.00	0.00	0.00	0.01	0.00	8.62	2.00	0.00	0.00	0.01	0.00
8.63	2.00	0.00	0.00	0.01	0.00	8.64	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.65	2.00	0.00	0.00	0.01	0.00	8.66	2.00	0.00	0.00	0.01	0.00
8.67	2.00	0.00	0.00	0.01	0.00	8.68	2.00	0.00	0.00	0.01	0.00
8.69	2.00	0.00	0.00	0.01	0.00	8.70	2.00	0.00	0.00	0.01	0.00
8.71	2.00	0.00	0.00	0.01	0.00	8.72	2.00	0.00	0.00	0.01	0.00
8.73	2.00	0.00	0.00	0.01	0.00	8.74	2.00	0.00	0.00	0.01	0.00
8.75	2.00	0.00	0.00	0.01	0.00	8.76	2.00	0.00	0.00	0.01	0.00
8.77	2.00	0.00	0.00	0.01	0.00	8.78	2.00	0.00	0.00	0.01	0.00
8.79	2.00	0.00	0.00	0.01	0.00	8.80	2.00	0.00	0.00	0.01	0.00
8.81	2.00	0.00	0.00	0.01	0.00	8.82	2.00	0.00	0.00	0.01	0.00
8.83	2.00	0.00	0.00	0.01	0.00	8.84	2.00	0.00	0.00	0.01	0.00
8.85	2.00	0.00	0.00	0.01	0.00	8.86	2.00	0.00	0.00	0.01	0.00
8.87	2.00	0.00	0.00	0.01	0.00	8.88	2.00	0.00	0.00	0.01	0.00
8.89	2.00	0.00	0.00	0.01	0.00	8.90	2.00	0.00	0.00	0.01	0.00
8.91	2.00	0.00	0.00	0.01	0.00	8.92	2.00	0.00	0.00	0.01	0.00
8.93	2.00	0.00	0.00	0.01	0.00	8.94	2.00	0.00	0.00	0.01	0.00
8.95	2.00	0.00	0.00	0.01	0.00	8.96	2.00	0.00	0.00	0.01	0.00
8.97	2.00	0.00	0.00	0.01	0.00	8.98	2.00	0.00	0.00	0.01	0.00
8.99	2.00	0.00	0.00	0.01	0.00	9.00	2.00	0.00	0.00	0.01	0.00
9.01	2.00	0.00	0.00	0.01	0.00	9.02	2.00	0.00	0.00	0.01	0.00
9.03	2.00	0.00	0.00	0.01	0.00	9.04	2.00	0.00	0.00	0.01	0.00
9.05	2.00	0.00	0.00	0.01	0.00	9.06	2.00	0.00	0.00	0.01	0.00
9.07	2.00	0.00	0.00	0.01	0.00	9.08	2.00	0.00	0.00	0.01	0.00
9.09	2.00	0.00	0.00	0.01	0.00	9.10	2.00	0.00	0.00	0.01	0.00
9.11	2.00	0.00	0.00	0.01	0.00	9.12	2.00	0.00	0.00	0.01	0.00
9.13	2.00	0.00	0.00	0.01	0.00	9.14	2.00	0.00	0.00	0.01	0.00
9.15	2.00	0.00	0.00	0.01	0.00	9.16	2.00	0.00	0.00	0.01	0.00
9.17	2.00	0.00	0.00	0.01	0.00	9.18	2.00	0.00	0.00	0.01	0.00
9.19	2.00	0.00	0.00	0.01	0.00	9.20	2.00	0.00	0.00	0.01	0.00
9.21	2.00	0.00	0.00	0.01	0.00	9.22	2.00	0.00	0.00	0.01	0.00
9.23	2.00	0.00	0.00	0.01	0.00	9.24	2.00	0.00	0.00	0.01	0.00
9.25	2.00	0.00	0.00	0.01	0.00	9.26	2.00	0.00	0.00	0.01	0.00
9.27	2.00	0.00	0.00	0.01	0.00	9.28	2.00	0.00	0.00	0.01	0.00
9.29	2.00	0.00	0.00	0.01	0.00	9.30	2.00	0.00	0.00	0.01	0.00
9.31	2.00	0.00	0.00	0.01	0.00	9.32	2.00	0.00	0.00	0.01	0.00
9.33	2.00	0.00	0.00	0.01	0.00	9.34	2.00	0.00	0.00	0.01	0.00
9.35	2.00	0.00	0.00	0.01	0.00	9.36	2.00	0.00	0.00	0.01	0.00
9.37	2.00	0.00	0.00	0.01	0.00	9.38	2.00	0.00	0.00	0.01	0.00
9.39	2.00	0.00	0.00	0.01	0.00	9.40	2.00	0.00	0.00	0.01	0.00
9.41	2.00	0.00	0.00	0.01	0.00	9.42	2.00	0.00	0.00	0.01	0.00
9.43	2.00	0.00	0.00	0.01	0.00	9.44	2.00	0.00	0.00	0.01	0.00
9.45	2.00	0.00	0.00	0.01	0.00	9.46	2.00	0.00	0.00	0.01	0.00
9.47	2.00	0.00	0.00	0.01	0.00	9.48	2.00	0.00	0.00	0.01	0.00
9.49	2.00	0.00	0.00	0.01	0.00	9.50	2.00	0.00	0.00	0.01	0.00
9.51	2.00	0.00	0.00	0.01	0.00	9.52	2.00	0.00	0.00	0.01	0.00
9.53	2.00	0.00	0.00	0.01	0.00	9.54	2.00	0.00	0.00	0.01	0.00
9.55	2.00	0.00	0.00	0.01	0.00	9.56	2.00	0.00	0.00	0.01	0.00
9.57	2.00	0.00	0.00	0.01	0.00	9.58	2.00	0.00	0.00	0.01	0.00
9.59	2.00	0.00	0.00	0.01	0.00	9.60	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.61	2.00	0.00	0.00	0.01	0.00	9.62	2.00	0.00	0.00	0.01	0.00
9.63	2.00	0.00	0.00	0.01	0.00	9.64	2.00	0.00	0.00	0.01	0.00
9.65	2.00	0.00	0.00	0.01	0.00	9.66	2.00	0.00	0.00	0.01	0.00
9.67	2.00	0.00	0.00	0.01	0.00	9.68	2.00	0.00	0.00	0.01	0.00
9.69	2.00	0.00	0.00	0.01	0.00	9.70	2.00	0.00	0.00	0.01	0.00
9.71	2.00	0.00	0.00	0.01	0.00	9.72	2.00	0.00	0.00	0.01	0.00
9.73	2.00	0.00	0.00	0.01	0.00	9.74	2.00	0.00	0.00	0.01	0.00
9.75	2.00	0.00	0.00	0.01	0.00	9.76	2.00	0.00	0.00	0.01	0.00
9.77	2.00	0.00	0.00	0.01	0.00	9.78	2.00	0.00	0.00	0.01	0.00
9.79	2.00	0.00	0.00	0.01	0.00	9.80	2.00	0.00	0.00	0.01	0.00
9.81	2.00	0.00	0.00	0.01	0.00	9.82	2.00	0.00	0.00	0.01	0.00
9.83	2.00	0.00	0.00	0.01	0.00	9.84	2.00	0.00	0.00	0.01	0.00
9.85	2.00	0.00	0.00	0.01	0.00	9.86	2.00	0.00	0.00	0.01	0.00
9.87	2.00	0.00	0.00	0.01	0.00	9.88	2.00	0.00	0.00	0.01	0.00
9.89	2.00	0.00	0.00	0.01	0.00	9.90	2.00	0.00	0.00	0.01	0.00
9.91	2.00	0.00	0.00	0.01	0.00	9.92	2.00	0.00	0.00	0.01	0.00
9.93	2.00	0.00	0.00	0.01	0.00	9.94	2.00	0.00	0.00	0.01	0.00
9.95	2.00	0.00	0.00	0.01	0.00	9.96	2.00	0.00	0.00	0.01	0.00
9.97	2.00	0.00	0.00	0.01	0.00	9.98	2.00	0.00	0.00	0.01	0.00
9.99	2.00	0.00	0.00	0.01	0.00	10.00	2.00	0.00	0.00	0.01	0.00
10.01	2.00	0.00	0.00	0.01	0.00	10.02	2.00	0.00	0.00	0.01	0.00
10.03	2.00	0.00	0.00	0.01	0.00	10.04	2.00	0.00	0.00	0.01	0.00
10.05	2.00	0.00	0.00	0.01	0.00	10.06	2.00	0.00	0.00	0.01	0.00
10.07	2.00	0.00	0.00	0.01	0.00	10.08	2.00	0.00	0.00	0.01	0.00
10.09	2.00	0.00	0.00	0.01	0.00	10.10	2.00	0.00	0.00	0.01	0.00
10.11	2.00	0.00	0.00	0.01	0.00	10.12	2.00	0.00	0.00	0.01	0.00
10.13	2.00	0.00	0.00	0.01	0.00	10.14	2.00	0.00	0.00	0.01	0.00
10.15	2.00	0.00	0.00	0.01	0.00	10.16	2.00	0.00	0.00	0.01	0.00
10.17	2.00	0.00	0.00	0.01	0.00	10.18	2.00	0.00	0.00	0.01	0.00
10.19	2.00	0.00	0.00	0.01	0.00	10.20	2.00	0.00	0.00	0.01	0.00
10.21	2.00	0.00	0.00	0.01	0.00	10.22	2.00	0.00	0.00	0.01	0.00
10.23	2.00	0.00	0.00	0.01	0.00	10.24	2.00	0.00	0.00	0.01	0.00
10.25	2.00	0.00	0.00	0.01	0.00	10.26	2.00	0.00	0.00	0.01	0.00
10.27	2.00	0.00	0.00	0.01	0.00	10.28	2.00	0.00	0.00	0.01	0.00
10.29	2.00	0.00	0.00	0.01	0.00	10.30	2.00	0.00	0.00	0.01	0.00
10.31	2.00	0.00	0.00	0.01	0.00	10.32	2.00	0.00	0.00	0.01	0.00
10.33	2.00	0.00	0.00	0.01	0.00	10.34	2.00	0.00	0.00	0.01	0.00
10.35	2.00	0.00	0.00	0.01	0.00	10.36	2.00	0.00	0.00	0.01	0.00
10.37	2.00	0.00	0.00	0.01	0.00	10.38	2.00	0.00	0.00	0.01	0.00
10.39	2.00	0.00	0.00	0.01	0.00	10.40	2.00	0.00	0.00	0.01	0.00
10.41	2.00	0.00	0.00	0.01	0.00	10.42	2.00	0.00	0.00	0.01	0.00
10.43	2.00	0.00	0.00	0.01	0.00	10.44	2.00	0.00	0.00	0.01	0.00
10.45	2.00	0.00	0.00	0.01	0.00	10.46	2.00	0.00	0.00	0.01	0.00
10.47	2.00	0.00	0.00	0.01	0.00	10.48	2.00	0.00	0.00	0.01	0.00
10.49	2.00	0.00	0.00	0.01	0.00	10.50	2.00	0.00	0.00	0.01	0.00
10.51	2.00	0.00	0.00	0.01	0.00	10.52	2.00	0.00	0.00	0.01	0.00
10.53	2.00	0.00	0.00	0.01	0.00	10.54	2.00	0.00	0.00	0.01	0.00
10.55	2.00	0.00	0.00	0.01	0.00	10.56	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.57	2.00	0.00	0.00	0.01	0.00	10.58	2.00	0.00	0.00	0.01	0.00
10.59	2.00	0.00	0.00	0.01	0.00	10.60	2.00	0.00	0.00	0.01	0.00
10.61	2.00	0.00	0.00	0.01	0.00	10.62	2.00	0.00	0.00	0.01	0.00
10.63	2.00	0.00	0.00	0.01	0.00	10.64	2.00	0.00	0.00	0.01	0.00
10.65	2.00	0.00	0.00	0.01	0.00	10.66	2.00	0.00	0.00	0.01	0.00
10.67	2.00	0.00	0.00	0.01	0.00	10.68	2.00	0.00	0.00	0.01	0.00
10.69	2.00	0.00	0.00	0.01	0.00	10.70	2.00	0.00	0.00	0.01	0.00
10.71	2.00	0.00	0.00	0.01	0.00	10.72	2.00	0.00	0.00	0.01	0.00
10.73	2.00	0.00	0.00	0.01	0.00	10.74	2.00	0.00	0.00	0.01	0.00
10.75	2.00	0.00	0.00	0.01	0.00	10.76	2.00	0.00	0.00	0.01	0.00
10.77	2.00	0.00	0.00	0.01	0.00	10.78	2.00	0.00	0.00	0.01	0.00
10.79	2.00	0.00	0.00	0.01	0.00	10.80	2.00	0.00	0.00	0.01	0.00
10.81	2.00	0.00	0.00	0.01	0.00	10.82	2.00	0.00	0.00	0.01	0.00
10.83	2.00	0.00	0.00	0.01	0.00	10.84	2.00	0.00	0.00	0.01	0.00
10.85	2.00	0.00	0.00	0.01	0.00	10.86	2.00	0.00	0.00	0.01	0.00
10.87	2.00	0.00	0.00	0.01	0.00	10.88	2.00	0.00	0.00	0.01	0.00
10.89	2.00	0.00	0.00	0.01	0.00	10.90	2.00	0.00	0.00	0.01	0.00
10.91	2.00	0.00	0.00	0.01	0.00	10.92	2.00	0.00	0.00	0.01	0.00
10.93	2.00	0.00	0.00	0.01	0.00	10.94	2.00	0.00	0.00	0.01	0.00
10.95	2.00	0.00	0.00	0.01	0.00	10.96	2.00	0.00	0.00	0.01	0.00
10.97	2.00	0.00	0.00	0.01	0.00	10.98	2.00	0.00	0.00	0.01	0.00
10.99	2.00	0.00	0.00	0.01	0.00	11.00	2.00	0.00	0.00	0.01	0.00
11.01	2.00	0.00	0.00	0.01	0.00	11.02	2.00	0.00	0.00	0.01	0.00
11.03	2.00	0.00	0.00	0.01	0.00	11.04	2.00	0.00	0.00	0.01	0.00
11.05	2.00	0.00	0.00	0.01	0.00	11.06	2.00	0.00	0.00	0.01	0.00
11.07	2.00	0.00	0.00	0.01	0.00	11.08	2.00	0.00	0.00	0.01	0.00
11.09	2.00	0.00	0.00	0.01	0.00	11.10	2.00	0.00	0.00	0.01	0.00
11.11	2.00	0.00	0.00	0.01	0.00	11.12	2.00	0.00	0.00	0.01	0.00
11.13	2.00	0.00	0.00	0.01	0.00	11.14	2.00	0.00	0.00	0.01	0.00
11.15	2.00	0.00	0.00	0.01	0.00	11.16	2.00	0.00	0.00	0.01	0.00
11.17	2.00	0.00	0.00	0.01	0.00	11.18	2.00	0.00	0.00	0.01	0.00
11.19	2.00	0.00	0.00	0.01	0.00	11.20	2.00	0.00	0.00	0.01	0.00
11.21	2.00	0.00	0.00	0.01	0.00	11.22	2.00	0.00	0.00	0.01	0.00
11.23	2.00	0.00	0.00	0.01	0.00	11.24	2.00	0.00	0.00	0.01	0.00
11.25	2.00	0.00	0.00	0.01	0.00	11.26	2.00	0.00	0.00	0.01	0.00
11.27	2.00	0.00	0.00	0.01	0.00	11.28	2.00	0.00	0.00	0.01	0.00
11.29	2.00	0.00	0.00	0.01	0.00	11.30	2.00	0.00	0.00	0.01	0.00
11.31	2.00	0.00	0.00	0.01	0.00	11.32	2.00	0.00	0.00	0.01	0.00
11.33	2.00	0.00	0.00	0.01	0.00	11.34	2.00	0.00	0.00	0.01	0.00
11.35	2.00	0.00	0.00	0.01	0.00	11.36	2.00	0.00	0.00	0.01	0.00
11.37	2.00	0.00	0.00	0.01	0.00	11.38	2.00	0.00	0.00	0.01	0.00
11.39	2.00	0.00	0.00	0.01	0.00	11.40	2.00	0.00	0.00	0.01	0.00
11.41	2.00	0.00	0.00	0.01	0.00	11.42	2.00	0.00	0.00	0.01	0.00
11.43	2.00	0.00	0.00	0.01	0.00	11.44	2.00	0.00	0.00	0.01	0.00
11.45	2.00	0.00	0.00	0.01	0.00	11.46	2.00	0.00	0.00	0.01	0.00
11.47	2.00	0.00	0.00	0.01	0.00	11.48	2.00	0.00	0.00	0.01	0.00
11.49	2.00	0.00	0.00	0.01	0.00	11.50	2.00	0.00	0.00	0.01	0.00
11.51	2.00	0.00	0.00	0.01	0.00	11.52	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.53	2.00	0.00	0.00	0.01	0.00	11.54	2.00	0.00	0.00	0.01	0.00
11.55	2.00	0.00	0.00	0.01	0.00	11.56	2.00	0.00	0.00	0.01	0.00
11.57	2.00	0.00	0.00	0.01	0.00	11.58	2.00	0.00	0.00	0.01	0.00
11.59	2.00	0.00	0.00	0.01	0.00	11.60	2.00	0.00	0.00	0.01	0.00
11.61	2.00	0.00	0.00	0.01	0.00	11.62	2.00	0.00	0.00	0.01	0.00
11.63	2.00	0.00	0.00	0.01	0.00	11.64	2.00	0.00	0.00	0.01	0.00
11.65	2.00	0.00	0.00	0.01	0.00	11.66	2.00	0.00	0.00	0.01	0.00
11.67	2.00	0.00	0.00	0.01	0.00	11.68	2.00	0.00	0.00	0.01	0.00
11.69	2.00	0.00	0.00	0.01	0.00	11.70	2.00	0.00	0.00	0.01	0.00
11.71	2.00	0.00	0.00	0.01	0.00	11.72	2.00	0.00	0.00	0.01	0.00
11.73	2.00	0.00	0.00	0.01	0.00	11.74	2.00	0.00	0.00	0.01	0.00
11.75	2.00	0.00	0.00	0.01	0.00	11.76	2.00	0.00	0.00	0.01	0.00
11.77	2.00	0.00	0.00	0.01	0.00	11.78	2.00	0.00	0.00	0.01	0.00
11.79	2.00	0.00	0.00	0.01	0.00	11.80	2.00	0.00	0.00	0.01	0.00
11.81	2.00	0.00	0.00	0.01	0.00	11.82	2.00	0.00	0.00	0.01	0.00
11.83	2.00	0.00	0.00	0.01	0.00	11.84	2.00	0.00	0.00	0.01	0.00
11.85	2.00	0.00	0.00	0.01	0.00	11.86	2.00	0.00	0.00	0.01	0.00
11.87	2.00	0.00	0.00	0.01	0.00	11.88	2.00	0.00	0.00	0.01	0.00
11.89	2.00	0.00	0.00	0.01	0.00	11.90	2.00	0.00	0.00	0.01	0.00
11.91	2.00	0.00	0.00	0.01	0.00	11.92	2.00	0.00	0.00	0.01	0.00
11.93	2.00	0.00	0.00	0.01	0.00	11.94	2.00	0.00	0.00	0.01	0.00
11.95	2.00	0.00	0.00	0.01	0.00	11.96	2.00	0.00	0.00	0.01	0.00
11.97	2.00	0.00	0.00	0.01	0.00	11.98	2.00	0.00	0.00	0.01	0.00
11.99	2.00	0.00	0.00	0.01	0.00	12.00	2.00	0.00	0.00	0.01	0.00
12.01	2.00	0.00	0.00	0.01	0.00	12.02	2.00	0.00	0.00	0.01	0.00
12.03	2.00	0.00	0.00	0.01	0.00	12.04	2.00	0.00	0.00	0.01	0.00
12.05	2.00	0.00	0.00	0.01	0.00	12.06	2.00	0.00	0.00	0.01	0.00
12.07	2.00	0.00	0.00	0.01	0.00	12.08	2.00	0.00	0.00	0.01	0.00
12.09	2.00	0.00	0.00	0.01	0.00	12.10	2.00	0.00	0.00	0.01	0.00
12.11	2.00	0.00	0.00	0.01	0.00	12.12	2.00	0.00	0.00	0.01	0.00
12.13	2.00	0.00	0.00	0.01	0.00	12.14	2.00	0.00	0.00	0.01	0.00
12.15	2.00	0.00	0.00	0.01	0.00	12.16	2.00	0.00	0.00	0.01	0.00
12.17	2.00	0.00	0.00	0.01	0.00	12.18	2.00	0.00	0.00	0.01	0.00
12.19	2.00	0.00	0.00	0.01	0.00	12.20	2.00	0.00	0.00	0.01	0.00
12.21	2.00	0.00	0.00	0.01	0.00	12.22	2.00	0.00	0.00	0.01	0.00
12.23	2.00	0.00	0.00	0.01	0.00	12.24	2.00	0.00	0.00	0.01	0.00
12.25	2.00	0.00	0.00	0.01	0.00	12.26	2.00	0.00	0.00	0.01	0.00
12.27	2.00	0.00	0.00	0.01	0.00	12.28	2.00	0.00	0.00	0.01	0.00
12.29	2.00	0.00	0.00	0.01	0.00	12.30	2.00	0.00	0.00	0.01	0.00
12.31	2.00	0.00	0.00	0.01	0.00	12.32	2.00	0.00	0.00	0.01	0.00
12.33	2.00	0.00	0.00	0.01	0.00	12.34	2.00	0.00	0.00	0.01	0.00
12.35	2.00	0.00	0.00	0.01	0.00	12.36	2.00	0.00	0.00	0.01	0.00
12.37	2.00	0.00	0.00	0.01	0.00	12.38	2.00	0.00	0.00	0.01	0.00
12.39	2.00	0.00	0.00	0.01	0.00	12.40	2.00	0.00	0.00	0.01	0.00
12.41	2.00	0.00	0.00	0.01	0.00	12.42	2.00	0.00	0.00	0.01	0.00
12.43	2.00	0.00	0.00	0.01	0.00	12.44	2.00	0.00	0.00	0.01	0.00
12.45	2.00	0.00	0.00	0.01	0.00	12.46	2.00	0.00	0.00	0.01	0.00
12.47	2.00	0.00	0.00	0.01	0.00	12.48	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.49	2.00	0.00	0.00	0.01	0.00	12.50	2.00	0.00	0.00	0.01	0.00
12.51	2.00	0.00	0.00	0.01	0.00	12.52	2.00	0.00	0.00	0.01	0.00
12.53	2.00	0.00	0.00	0.01	0.00	12.54	2.00	0.00	0.00	0.01	0.00
12.55	2.00	0.00	0.00	0.01	0.00	12.56	2.00	0.00	0.00	0.01	0.00
12.57	2.00	0.00	0.00	0.01	0.00	12.58	2.00	0.00	0.00	0.01	0.00
12.59	2.00	0.00	0.00	0.01	0.00	12.60	2.00	0.00	0.00	0.01	0.00
12.61	2.00	0.00	0.00	0.01	0.00	12.62	2.00	0.00	0.00	0.01	0.00
12.63	2.00	0.00	0.00	0.01	0.00	12.64	2.00	0.00	0.00	0.01	0.00
12.65	2.00	0.00	0.00	0.01	0.00	12.66	2.00	0.00	0.00	0.01	0.00
12.67	2.00	0.00	0.00	0.01	0.00	12.68	2.00	0.00	0.00	0.01	0.00
12.69	2.00	0.00	0.00	0.01	0.00	12.70	2.00	0.00	0.00	0.01	0.00
12.71	2.00	0.00	0.00	0.01	0.00	12.72	2.00	0.00	0.00	0.01	0.00
12.73	2.00	0.00	0.00	0.01	0.00	12.74	2.00	0.00	0.00	0.01	0.00
12.75	2.00	0.00	0.00	0.01	0.00	12.76	2.00	0.00	0.00	0.01	0.00
12.77	2.00	0.00	0.00	0.01	0.00	12.78	2.00	0.00	0.00	0.01	0.00
12.79	2.00	0.00	0.00	0.01	0.00	12.80	2.00	0.00	0.00	0.01	0.00
12.81	2.00	0.00	0.00	0.01	0.00	12.82	2.00	0.00	0.00	0.01	0.00
12.83	2.00	0.00	0.00	0.01	0.00	12.84	2.00	0.00	0.00	0.01	0.00
12.85	2.00	0.00	0.00	0.01	0.00	12.86	2.00	0.00	0.00	0.01	0.00
12.87	2.00	0.00	0.00	0.01	0.00	12.88	2.00	0.00	0.00	0.01	0.00
12.89	2.00	0.00	0.00	0.01	0.00	12.90	2.00	0.00	0.00	0.01	0.00
12.91	2.00	0.00	0.00	0.01	0.00	12.92	2.00	0.00	0.00	0.01	0.00
12.93	2.00	0.00	0.00	0.01	0.00	12.94	2.00	0.00	0.00	0.01	0.00
12.95	2.00	0.00	0.00	0.01	0.00	12.96	2.00	0.00	0.00	0.01	0.00
12.97	2.00	0.00	0.00	0.01	0.00	12.98	2.00	0.00	0.00	0.01	0.00
12.99	2.00	0.00	0.00	0.01	0.00	13.00	2.00	0.00	0.00	0.01	0.00
13.01	2.00	0.00	0.00	0.01	0.00	13.02	2.00	0.00	0.00	0.01	0.00
13.03	2.00	0.00	0.00	0.01	0.00	13.04	2.00	0.00	0.00	0.01	0.00
13.05	2.00	0.00	0.00	0.01	0.00	13.06	2.00	0.00	0.00	0.01	0.00
13.07	2.00	0.00	0.00	0.01	0.00	13.08	2.00	0.00	0.00	0.01	0.00
13.09	2.00	0.00	0.00	0.01	0.00	13.10	2.00	0.00	0.00	0.01	0.00
13.11	2.00	0.00	0.00	0.01	0.00	13.12	2.00	0.00	0.00	0.01	0.00
13.13	2.00	0.00	0.00	0.01	0.00	13.14	2.00	0.00	0.00	0.01	0.00
13.15	2.00	0.00	0.00	0.01	0.00	13.16	2.00	0.00	0.00	0.01	0.00
13.17	2.00	0.00	0.00	0.01	0.00	13.18	2.00	0.00	0.00	0.01	0.00
13.19	2.00	0.00	0.00	0.01	0.00	13.20	2.00	0.00	0.00	0.01	0.00
13.21	2.00	0.00	0.00	0.01	0.00	13.22	2.00	0.00	0.00	0.01	0.00
13.23	2.00	0.00	0.00	0.01	0.00	13.24	2.00	0.00	0.00	0.01	0.00
13.25	2.00	0.00	0.00	0.01	0.00	13.26	2.00	0.00	0.00	0.01	0.00
13.27	2.00	0.00	0.00	0.01	0.00	13.28	2.00	0.00	0.00	0.01	0.00
13.29	2.00	0.00	0.00	0.01	0.00	13.30	2.00	0.00	0.00	0.01	0.00
13.31	2.00	0.00	0.00	0.01	0.00	13.32	2.00	0.00	0.00	0.01	0.00
13.33	2.00	0.00	0.00	0.01	0.00	13.34	2.00	0.00	0.00	0.01	0.00
13.35	2.00	0.00	0.00	0.01	0.00	13.36	2.00	0.00	0.00	0.01	0.00
13.37	2.00	0.00	0.00	0.01	0.00	13.38	2.00	0.00	0.00	0.01	0.00
13.39	2.00	0.00	0.00	0.01	0.00	13.40	2.00	0.00	0.00	0.01	0.00
13.41	2.00	0.00	0.00	0.01	0.00	13.42	2.00	0.00	0.00	0.01	0.00
13.43	2.00	0.00	0.00	0.01	0.00	13.44	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.45	2.00	0.00	0.00	0.01	0.00	13.46	2.00	0.00	0.00	0.01	0.00
13.47	2.00	0.00	0.00	0.01	0.00	13.48	2.00	0.00	0.00	0.01	0.00
13.49	2.00	0.00	0.00	0.01	0.00	13.50	2.00	0.00	0.00	0.01	0.00
13.51	2.00	0.00	0.00	0.01	0.00	13.52	2.00	0.00	0.00	0.01	0.00
13.53	2.00	0.00	0.00	0.01	0.00	13.54	2.00	0.00	0.00	0.01	0.00
13.55	2.00	0.00	0.00	0.01	0.00	13.56	2.00	0.00	0.00	0.01	0.00
13.57	2.00	0.00	0.00	0.01	0.00	13.58	2.00	0.00	0.00	0.01	0.00
13.59	2.00	0.00	0.00	0.01	0.00	13.60	2.00	0.00	0.00	0.01	0.00
13.61	2.00	0.00	0.00	0.01	0.00	13.62	2.00	0.00	0.00	0.01	0.00
13.63	2.00	0.00	0.00	0.01	0.00	13.64	2.00	0.00	0.00	0.01	0.00
13.65	2.00	0.00	0.00	0.01	0.00	13.66	2.00	0.00	0.00	0.01	0.00
13.67	2.00	0.00	0.00	0.01	0.00	13.68	2.00	0.00	0.00	0.01	0.00
13.69	2.00	0.00	0.00	0.01	0.00	13.70	2.00	0.00	0.00	0.01	0.00
13.71	2.00	0.00	0.00	0.01	0.00	13.72	2.00	0.00	0.00	0.01	0.00
13.73	2.00	0.00	0.00	0.01	0.00	13.74	2.00	0.00	0.00	0.01	0.00
13.75	2.00	0.00	0.00	0.01	0.00	13.76	2.00	0.00	0.00	0.01	0.00
13.77	2.00	0.00	0.00	0.01	0.00	13.78	2.00	0.00	0.00	0.01	0.00
13.79	2.00	0.00	0.00	0.01	0.00	13.80	2.00	0.00	0.00	0.01	0.00
13.81	2.00	0.00	0.00	0.01	0.00	13.82	2.00	0.00	0.00	0.01	0.00
13.83	2.00	0.00	0.00	0.01	0.00	13.84	2.00	0.00	0.00	0.01	0.00
13.85	2.00	0.00	0.00	0.01	0.00	13.86	2.00	0.00	0.00	0.01	0.00
13.87	2.00	0.00	0.00	0.01	0.00	13.88	2.00	0.00	0.00	0.01	0.00
13.89	2.00	0.00	0.00	0.01	0.00	13.90	2.00	0.00	0.00	0.01	0.00
13.91	2.00	0.00	0.00	0.01	0.00	13.92	2.00	0.00	0.00	0.01	0.00
13.93	2.00	0.00	0.00	0.01	0.00	13.94	2.00	0.00	0.00	0.01	0.00
13.95	2.00	0.00	0.00	0.01	0.00	13.96	2.00	0.00	0.00	0.01	0.00
13.97	2.00	0.00	0.00	0.01	0.00	13.98	2.00	0.00	0.00	0.01	0.00
13.99	2.00	0.00	0.00	0.01	0.00	14.00	2.00	0.00	0.00	0.01	0.00
14.01	2.00	0.00	0.00	0.01	0.00	14.02	2.00	0.00	0.00	0.01	0.00
14.03	2.00	0.00	0.00	0.01	0.00	14.04	2.00	0.00	0.00	0.01	0.00
14.05	2.00	0.00	0.00	0.01	0.00	14.06	2.00	0.00	0.00	0.01	0.00
14.07	2.00	0.00	0.00	0.01	0.00	14.08	2.00	0.00	0.00	0.01	0.00
14.09	2.00	0.00	0.00	0.01	0.00	14.10	2.00	0.00	0.00	0.01	0.00
14.11	2.00	0.00	0.00	0.01	0.00	14.12	2.00	0.00	0.00	0.01	0.00
14.13	2.00	0.00	0.00	0.01	0.00	14.14	2.00	0.00	0.00	0.01	0.00
14.15	2.00	0.00	0.00	0.01	0.00	14.16	2.00	0.00	0.00	0.01	0.00
14.17	2.00	0.00	0.00	0.01	0.00	14.18	2.00	0.00	0.00	0.01	0.00
14.19	2.00	0.00	0.00	0.01	0.00	14.20	2.00	0.00	0.00	0.01	0.00
14.21	2.00	0.00	0.00	0.01	0.00	14.22	2.00	0.00	0.00	0.01	0.00
14.23	2.00	0.00	0.00	0.01	0.00	14.24	2.00	0.00	0.00	0.01	0.00
14.25	2.00	0.00	0.00	0.01	0.00	14.26	2.00	0.00	0.00	0.01	0.00
14.27	2.00	0.00	0.00	0.01	0.00	14.28	2.00	0.00	0.00	0.01	0.00
14.29	2.00	0.00	0.00	0.01	0.00	14.30	2.00	0.00	0.00	0.01	0.00
14.31	2.00	0.00	0.00	0.01	0.00	14.32	2.00	0.00	0.00	0.01	0.00
14.33	2.00	0.00	0.00	0.01	0.00	14.34	2.00	0.00	0.00	0.01	0.00
14.35	2.00	0.00	0.00	0.01	0.00	14.36	2.00	0.00	0.00	0.01	0.00
14.37	2.00	0.00	0.00	0.01	0.00	14.38	2.00	0.00	0.00	0.01	0.00
14.39	2.00	0.00	0.00	0.01	0.00	14.40	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.41	2.00	0.00	0.00	0.01	0.00	14.42	2.00	0.00	0.00	0.01	0.00
14.43	2.00	0.00	0.00	0.01	0.00	14.44	2.00	0.00	0.00	0.01	0.00
14.45	2.00	0.00	0.00	0.01	0.00	14.46	2.00	0.00	0.00	0.01	0.00
14.47	2.00	0.00	0.00	0.01	0.00	14.48	2.00	0.00	0.00	0.01	0.00
14.49	2.00	0.00	0.00	0.01	0.00	14.50	2.00	0.00	0.00	0.01	0.00
14.51	2.00	0.00	0.00	0.01	0.00	14.52	2.00	0.00	0.00	0.01	0.00
14.53	2.00	0.00	0.00	0.01	0.00	14.54	2.00	0.00	0.00	0.01	0.00
14.55	2.00	0.00	0.00	0.01	0.00	14.56	2.00	0.00	0.00	0.01	0.00
14.57	2.00	0.00	0.00	0.01	0.00	14.58	2.00	0.00	0.00	0.01	0.00
14.59	2.00	0.00	0.00	0.01	0.00	14.60	2.00	0.00	0.00	0.01	0.00
14.61	2.00	0.00	0.00	0.01	0.00	14.62	2.00	0.00	0.00	0.01	0.00
14.63	2.00	0.00	0.00	0.01	0.00	14.64	2.00	0.00	0.00	0.01	0.00
14.65	2.00	0.00	0.00	0.01	0.00	14.66	2.00	0.00	0.00	0.01	0.00
14.67	2.00	0.00	0.00	0.01	0.00	14.68	2.00	0.00	0.00	0.01	0.00
14.69	2.00	0.00	0.00	0.01	0.00	14.70	2.00	0.00	0.00	0.01	0.00
14.71	2.00	0.00	0.00	0.01	0.00	14.72	2.00	0.00	0.00	0.01	0.00
14.73	2.00	0.00	0.00	0.01	0.00	14.74	2.00	0.00	0.00	0.01	0.00
14.75	2.00	0.00	0.00	0.01	0.00	14.76	2.00	0.00	0.00	0.01	0.00
14.77	2.00	0.00	0.00	0.01	0.00	14.78	2.00	0.00	0.00	0.01	0.00
14.79	2.00	0.00	0.00	0.01	0.00	14.80	2.00	0.00	0.00	0.01	0.00
14.81	2.00	0.00	0.00	0.01	0.00	14.82	2.00	0.00	0.00	0.01	0.00
14.83	2.00	0.00	0.00	0.01	0.00	14.84	2.00	0.00	0.00	0.01	0.00
14.85	2.00	0.00	0.00	0.01	0.00	14.86	2.00	0.00	0.00	0.01	0.00
14.87	2.00	0.00	0.00	0.01	0.00	14.88	2.00	0.00	0.00	0.01	0.00
14.89	2.00	0.00	0.00	0.01	0.00	14.90	2.00	0.00	0.00	0.01	0.00
14.91	2.00	0.00	0.00	0.01	0.00	14.92	2.00	0.00	0.00	0.01	0.00
14.93	2.00	0.00	0.00	0.01	0.00	14.94	2.00	0.00	0.00	0.01	0.00
14.95	2.00	0.00	0.00	0.01	0.00	14.96	2.00	0.00	0.00	0.01	0.00
14.97	2.00	0.00	0.00	0.01	0.00	14.98	2.00	0.00	0.00	0.01	0.00
14.99	2.00	0.00	0.00	0.01	0.00	15.00	2.00	0.00	0.00	0.01	0.00
15.01	2.00	0.00	0.00	0.01	0.00	15.02	2.00	0.00	0.00	0.01	0.00
15.03	2.00	0.00	0.00	0.01	0.00	15.04	2.00	0.00	0.00	0.01	0.00
15.05	2.00	0.00	0.00	0.01	0.00	15.06	2.00	0.00	0.00	0.01	0.00
15.07	2.00	0.00	0.00	0.01	0.00	15.08	2.00	0.00	0.00	0.01	0.00
15.09	2.00	0.00	0.00	0.01	0.00	15.10	2.00	0.00	0.00	0.01	0.00
15.11	2.00	0.00	0.00	0.01	0.00	15.12	2.00	0.00	0.00	0.01	0.00
15.13	2.00	0.00	0.00	0.01	0.00	15.14	2.00	0.00	0.00	0.01	0.00
15.15	2.00	0.00	0.00	0.01	0.00	15.16	2.00	0.00	0.00	0.01	0.00
15.17	2.00	0.00	0.00	0.01	0.00	15.18	2.00	0.00	0.00	0.01	0.00
15.19	2.00	0.00	0.00	0.01	0.00	15.20	2.00	0.00	0.00	0.01	0.00
15.21	2.00	0.00	0.00	0.01	0.00	15.22	2.00	0.00	0.00	0.01	0.00
15.23	2.00	0.00	0.00	0.01	0.00	15.24	2.00	0.00	0.00	0.01	0.00
15.25	2.00	0.00	0.00	0.01	0.00	15.26	2.00	0.00	0.00	0.01	0.00
15.27	2.00	0.00	0.00	0.01	0.00	15.28	2.00	0.00	0.00	0.01	0.00
15.29	2.00	0.00	0.00	0.01	0.00	15.30	2.00	0.00	0.00	0.01	0.00
15.31	2.00	0.00	0.00	0.01	0.00	15.32	2.00	0.00	0.00	0.01	0.00
15.33	2.00	0.00	0.00	0.01	0.00	15.34	2.00	0.00	0.00	0.01	0.00
15.35	2.00	0.00	0.00	0.01	0.00	15.36	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.37	2.00	0.00	0.00	0.01	0.00	15.38	2.00	0.00	0.00	0.01	0.00
15.39	2.00	0.00	0.00	0.01	0.00	15.40	2.00	0.00	0.00	0.01	0.00
15.41	2.00	0.00	0.00	0.01	0.00	15.42	2.00	0.00	0.00	0.01	0.00
15.43	2.00	0.00	0.00	0.01	0.00	15.44	2.00	0.00	0.00	0.01	0.00
15.45	2.00	0.00	0.00	0.01	0.00	15.46	2.00	0.00	0.00	0.01	0.00
15.47	2.00	0.00	0.00	0.01	0.00	15.48	2.00	0.00	0.00	0.01	0.00
15.49	2.00	0.00	0.00	0.01	0.00	15.50	2.00	0.00	0.00	0.01	0.00
15.51	2.00	0.00	0.00	0.01	0.00	15.52	2.00	0.00	0.00	0.01	0.00
15.53	2.00	0.00	0.00	0.01	0.00	15.54	2.00	0.00	0.00	0.01	0.00
15.55	2.00	0.00	0.00	0.01	0.00	15.56	2.00	0.00	0.00	0.01	0.00
15.57	2.00	0.00	0.00	0.01	0.00	15.58	2.00	0.00	0.00	0.01	0.00
15.59	2.00	0.00	0.00	0.01	0.00	15.60	2.00	0.00	0.00	0.01	0.00
15.61	2.00	0.00	0.00	0.01	0.00	15.62	2.00	0.00	0.00	0.01	0.00
15.63	2.00	0.00	0.00	0.01	0.00	15.64	2.00	0.00	0.00	0.01	0.00
15.65	2.00	0.00	0.00	0.01	0.00	15.66	2.00	0.00	0.00	0.01	0.00
15.67	2.00	0.00	0.00	0.01	0.00	15.68	2.00	0.00	0.00	0.01	0.00
15.69	2.00	0.00	0.00	0.01	0.00	15.70	2.00	0.00	0.00	0.01	0.00
15.71	2.00	0.00	0.00	0.01	0.00	15.72	2.00	0.00	0.00	0.01	0.00
15.73	2.00	0.00	0.00	0.01	0.00	15.74	2.00	0.00	0.00	0.01	0.00
15.75	2.00	0.00	0.00	0.01	0.00	15.76	2.00	0.00	0.00	0.01	0.00
15.77	2.00	0.00	0.00	0.01	0.00	15.78	2.00	0.00	0.00	0.01	0.00
15.79	2.00	0.00	0.00	0.01	0.00	15.80	2.00	0.00	0.00	0.01	0.00
15.81	2.00	0.00	0.00	0.01	0.00	15.82	2.00	0.00	0.00	0.01	0.00
15.83	2.00	0.00	0.00	0.01	0.00	15.84	2.00	0.00	0.00	0.01	0.00
15.85	2.00	0.00	0.00	0.01	0.00	15.86	2.00	0.00	0.00	0.01	0.00
15.87	2.00	0.00	0.00	0.01	0.00	15.88	2.00	0.00	0.00	0.01	0.00
15.89	2.00	0.00	0.00	0.01	0.00	15.90	2.00	0.00	0.00	0.01	0.00
15.91	2.00	0.00	0.00	0.01	0.00	15.92	2.00	0.00	0.00	0.01	0.00
15.93	2.00	0.00	0.00	0.01	0.00	15.94	2.00	0.00	0.00	0.01	0.00
15.95	2.00	0.00	0.00	0.01	0.00	15.96	2.00	0.00	0.00	0.01	0.00
15.97	2.00	0.00	0.00	0.01	0.00	15.98	2.00	0.00	0.00	0.01	0.00
15.99	2.00	0.00	0.00	0.01	0.00	16.00	2.00	0.00	0.00	0.01	0.00
16.01	2.00	0.00	0.00	0.01	0.00	16.02	2.00	0.00	0.00	0.01	0.00
16.03	2.00	0.00	0.00	0.01	0.00	16.04	2.00	0.00	0.00	0.01	0.00
16.05	2.00	0.00	0.00	0.01	0.00	16.06	2.00	0.00	0.00	0.01	0.00
16.07	2.00	0.00	0.00	0.01	0.00	16.08	2.00	0.00	0.00	0.01	0.00
16.09	2.00	0.00	0.00	0.01	0.00	16.10	2.00	0.00	0.00	0.01	0.00
16.11	2.00	0.00	0.00	0.01	0.00	16.12	2.00	0.00	0.00	0.01	0.00
16.13	2.00	0.00	0.00	0.01	0.00	16.14	2.00	0.00	0.00	0.01	0.00
16.15	2.00	0.00	0.00	0.01	0.00	16.16	2.00	0.00	0.00	0.01	0.00
16.17	2.00	0.00	0.00	0.01	0.00	16.18	2.00	0.00	0.00	0.01	0.00
16.19	2.00	0.00	0.00	0.01	0.00	16.20	2.00	0.00	0.00	0.01	0.00
16.21	2.00	0.00	0.00	0.01	0.00	16.22	2.00	0.00	0.00	0.01	0.00
16.23	2.00	0.00	0.00	0.01	0.00	16.24	2.00	0.00	0.00	0.01	0.00
16.25	2.00	0.00	0.00	0.01	0.00	16.26	2.00	0.00	0.00	0.01	0.00
16.27	2.00	0.00	0.00	0.01	0.00	16.28	2.00	0.00	0.00	0.01	0.00
16.29	2.00	0.00	0.00	0.01	0.00	16.30	2.00	0.00	0.00	0.01	0.00
16.31	2.00	0.00	0.00	0.01	0.00	16.32	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.33	2.00	0.00	0.00	0.01	0.00	16.34	2.00	0.00	0.00	0.01	0.00
16.35	2.00	0.00	0.00	0.01	0.00	16.36	2.00	0.00	0.00	0.01	0.00
16.37	2.00	0.00	0.00	0.01	0.00	16.38	2.00	0.00	0.00	0.01	0.00
16.39	2.00	0.00	0.00	0.01	0.00	16.40	2.00	0.00	0.00	0.01	0.00
16.41	2.00	0.00	0.00	0.01	0.00	16.42	2.00	0.00	0.00	0.01	0.00
16.43	2.00	0.00	0.00	0.01	0.00	16.44	2.00	0.00	0.00	0.01	0.00
16.45	2.00	0.00	0.00	0.01	0.00	16.46	2.00	0.00	0.00	0.01	0.00
16.47	2.00	0.00	0.00	0.01	0.00	16.48	2.00	0.00	0.00	0.01	0.00
16.49	2.00	0.00	0.00	0.01	0.00	16.50	2.00	0.00	0.00	0.01	0.00
16.51	2.00	0.00	0.00	0.01	0.00	16.52	2.00	0.00	0.00	0.01	0.00
16.53	2.00	0.00	0.00	0.01	0.00	16.54	2.00	0.00	0.00	0.01	0.00
16.55	2.00	0.00	0.00	0.01	0.00	16.56	2.00	0.00	0.00	0.01	0.00
16.57	2.00	0.00	0.00	0.01	0.00	16.58	2.00	0.00	0.00	0.01	0.00
16.59	2.00	0.00	0.00	0.01	0.00	16.60	2.00	0.00	0.00	0.01	0.00
16.61	2.00	0.00	0.00	0.01	0.00	16.62	2.00	0.00	0.00	0.01	0.00
16.63	2.00	0.00	0.00	0.01	0.00	16.64	2.00	0.00	0.00	0.01	0.00
16.65	2.00	0.00	0.00	0.01	0.00	16.66	2.00	0.00	0.00	0.01	0.00
16.67	2.00	0.00	0.00	0.01	0.00	16.68	2.00	0.00	0.00	0.01	0.00
16.69	2.00	0.00	0.00	0.01	0.00	16.70	2.00	0.00	0.00	0.01	0.00
16.71	2.00	0.00	0.00	0.01	0.00	16.72	2.00	0.00	0.00	0.01	0.00
16.73	2.00	0.00	0.00	0.01	0.00	16.74	2.00	0.00	0.00	0.01	0.00
16.75	2.00	0.00	0.00	0.01	0.00	16.76	2.00	0.00	0.00	0.01	0.00
16.77	2.00	0.00	0.00	0.01	0.00	16.78	2.00	0.00	0.00	0.01	0.00
16.79	2.00	0.00	0.00	0.01	0.00	16.80	2.00	0.00	0.00	0.01	0.00
16.81	2.00	0.00	0.00	0.01	0.00	16.82	2.00	0.00	0.00	0.01	0.00
16.83	2.00	0.00	0.00	0.01	0.00	16.84	2.00	0.00	0.00	0.01	0.00
16.85	2.00	0.00	0.00	0.01	0.00	16.86	2.00	0.00	0.00	0.01	0.00
16.87	2.00	0.00	0.00	0.01	0.00	16.88	2.00	0.00	0.00	0.01	0.00
16.89	2.00	0.00	0.00	0.01	0.00	16.90	2.00	0.00	0.00	0.01	0.00
16.91	2.00	0.00	0.00	0.01	0.00	16.92	2.00	0.00	0.00	0.01	0.00
16.93	2.00	0.00	0.00	0.01	0.00	16.94	2.00	0.00	0.00	0.01	0.00
16.95	2.00	0.00	0.00	0.01	0.00	16.96	2.00	0.00	0.00	0.01	0.00
16.97	2.00	0.00	0.00	0.01	0.00	16.98	2.00	0.00	0.00	0.01	0.00
16.99	2.00	0.00	0.00	0.01	0.00	17.00	2.00	0.00	0.00	0.01	0.00
17.01	2.00	0.00	0.00	0.01	0.00	17.02	2.00	0.00	0.00	0.01	0.00
17.03	2.00	0.00	0.00	0.01	0.00	17.04	2.00	0.00	0.00	0.01	0.00
17.05	2.00	0.00	0.00	0.01	0.00	17.06	2.00	0.00	0.00	0.01	0.00
17.07	2.00	0.00	0.00	0.01	0.00	17.08	2.00	0.00	0.00	0.01	0.00
17.09	2.00	0.00	0.00	0.01	0.00	17.10	2.00	0.00	0.00	0.01	0.00
17.11	2.00	0.00	0.00	0.01	0.00	17.12	2.00	0.00	0.00	0.01	0.00
17.13	2.00	0.00	0.00	0.01	0.00	17.14	2.00	0.00	0.00	0.01	0.00
17.15	2.00	0.00	0.00	0.01	0.00	17.16	2.00	0.00	0.00	0.01	0.00
17.17	2.00	0.00	0.00	0.01	0.00	17.18	2.00	0.00	0.00	0.01	0.00
17.19	2.00	0.00	0.00	0.01	0.00	17.20	2.00	0.00	0.00	0.01	0.00
17.21	2.00	0.00	0.00	0.01	0.00	17.22	2.00	0.00	0.00	0.01	0.00
17.23	2.00	0.00	0.00	0.01	0.00	17.24	2.00	0.00	0.00	0.01	0.00
17.25	2.00	0.00	0.00	0.01	0.00	17.26	2.00	0.00	0.00	0.01	0.00
17.27	2.00	0.00	0.00	0.01	0.00	17.28	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
17.29	2.00	0.00	0.00	0.01	0.00	17.30	2.00	0.00	0.00	0.01	0.00
17.31	2.00	0.00	0.00	0.01	0.00	17.32	2.00	0.00	0.00	0.01	0.00
17.33	2.00	0.00	0.00	0.01	0.00	17.34	2.00	0.00	0.00	0.01	0.00
17.35	2.00	0.00	0.00	0.01	0.00	17.36	2.00	0.00	0.00	0.01	0.00
17.37	2.00	0.00	0.00	0.01	0.00	17.38	2.00	0.00	0.00	0.01	0.00
17.39	2.00	0.00	0.00	0.01	0.00	17.40	2.00	0.00	0.00	0.01	0.00
17.41	2.00	0.00	0.00	0.01	0.00	17.42	2.00	0.00	0.00	0.01	0.00
17.43	2.00	0.00	0.00	0.01	0.00	17.44	2.00	0.00	0.00	0.01	0.00
17.45	2.00	0.00	0.00	0.01	0.00	17.46	2.00	0.00	0.00	0.01	0.00
17.47	2.00	0.00	0.00	0.01	0.00	17.48	2.00	0.00	0.00	0.01	0.00
17.49	2.00	0.00	0.00	0.01	0.00	17.50	2.00	0.00	0.00	0.01	0.00
17.51	2.00	0.00	0.00	0.01	0.00	17.52	2.00	0.00	0.00	0.01	0.00
17.53	2.00	0.00	0.00	0.01	0.00	17.54	2.00	0.00	0.00	0.01	0.00
17.55	2.00	0.00	0.00	0.01	0.00	17.56	2.00	0.00	0.00	0.01	0.00
17.57	2.00	0.00	0.00	0.01	0.00	17.58	2.00	0.00	0.00	0.01	0.00
17.59	2.00	0.00	0.00	0.01	0.00	17.60	2.00	0.00	0.00	0.01	0.00
17.61	2.00	0.00	0.00	0.01	0.00	17.62	2.00	0.00	0.00	0.01	0.00
17.63	2.00	0.00	0.00	0.01	0.00	17.64	2.00	0.00	0.00	0.01	0.00
17.65	2.00	0.00	0.00	0.01	0.00	17.66	2.00	0.00	0.00	0.01	0.00
17.67	2.00	0.00	0.00	0.01	0.00	17.68	2.00	0.00	0.00	0.01	0.00
17.69	2.00	0.00	0.00	0.01	0.00	17.70	2.00	0.00	0.00	0.01	0.00
17.71	2.00	0.00	0.00	0.01	0.00	17.72	2.00	0.00	0.00	0.01	0.00
17.73	2.00	0.00	0.00	0.01	0.00	17.74	2.00	0.00	0.00	0.01	0.00
17.75	2.00	0.00	0.00	0.01	0.00	17.76	2.00	0.00	0.00	0.01	0.00
17.77	2.00	0.00	0.00	0.01	0.00	17.78	2.00	0.00	0.00	0.01	0.00
17.79	2.00	0.00	0.00	0.01	0.00	17.80	2.00	0.00	0.00	0.01	0.00
17.81	2.00	0.00	0.00	0.01	0.00	17.82	2.00	0.00	0.00	0.01	0.00
17.83	2.00	0.00	0.00	0.01	0.00	17.84	2.00	0.00	0.00	0.01	0.00
17.85	2.00	0.00	0.00	0.01	0.00	17.86	2.00	0.00	0.00	0.01	0.00
17.87	2.00	0.00	0.00	0.01	0.00	17.88	2.00	0.00	0.00	0.01	0.00
17.89	2.00	0.00	0.00	0.01	0.00	17.90	2.00	0.00	0.00	0.01	0.00
17.91	2.00	0.00	0.00	0.01	0.00	17.92	2.00	0.00	0.00	0.01	0.00
17.93	2.00	0.00	0.00	0.01	0.00	17.94	2.00	0.00	0.00	0.01	0.00
17.95	2.00	0.00	0.00	0.01	0.00	17.96	2.00	0.00	0.00	0.01	0.00
17.97	2.00	0.00	0.00	0.01	0.00	17.98	2.00	0.00	0.00	0.01	0.00
17.99	2.00	0.00	0.00	0.01	0.00	18.00	2.00	0.00	0.00	0.01	0.00
18.01	2.00	0.00	0.00	0.01	0.00	18.02	2.00	0.00	0.00	0.01	0.00
18.03	2.00	0.00	0.00	0.01	0.00	18.04	2.00	0.00	0.00	0.01	0.00
18.05	2.00	0.00	0.00	0.01	0.00	18.06	2.00	0.00	0.00	0.01	0.00
18.07	2.00	0.00	0.00	0.01	0.00	18.08	2.00	0.00	0.00	0.01	0.00
18.09	2.00	0.00	0.00	0.01	0.00	18.10	2.00	0.00	0.00	0.01	0.00
18.11	2.00	0.00	0.00	0.01	0.00	18.12	2.00	0.00	0.00	0.01	0.00
18.13	2.00	0.00	0.00	0.01	0.00	18.14	2.00	0.00	0.00	0.01	0.00
18.15	2.00	0.00	0.00	0.01	0.00	18.16	2.00	0.00	0.00	0.01	0.00
18.17	2.00	0.00	0.00	0.01	0.00	18.18	2.00	0.00	0.00	0.01	0.00
18.19	2.00	0.00	0.00	0.01	0.00	18.20	2.00	0.00	0.00	0.01	0.00
18.21	2.00	0.00	0.00	0.01	0.00	18.22	2.00	0.00	0.00	0.01	0.00
18.23	2.00	0.00	0.00	0.01	0.00	18.24	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
18.25	2.00	0.00	0.00	0.01	0.00	18.26	2.00	0.00	0.00	0.01	0.00
18.27	2.00	0.00	0.00	0.01	0.00	18.28	2.00	0.00	0.00	0.01	0.00
18.29	2.00	0.00	0.00	0.01	0.00	18.30	2.00	0.00	0.00	0.01	0.00
18.31	2.00	0.00	0.00	0.01	0.00	18.32	2.00	0.00	0.00	0.01	0.00
18.33	2.00	0.00	0.00	0.01	0.00	18.34	2.00	0.00	0.00	0.01	0.00
18.35	2.00	0.00	0.00	0.01	0.00	18.36	2.00	0.00	0.00	0.01	0.00
18.37	2.00	0.00	0.00	0.01	0.00	18.38	2.00	0.00	0.00	0.01	0.00
18.39	2.00	0.00	0.00	0.01	0.00	18.40	2.00	0.00	0.00	0.01	0.00
18.41	2.00	0.00	0.00	0.01	0.00	18.42	2.00	0.00	0.00	0.01	0.00
18.43	2.00	0.00	0.00	0.01	0.00	18.44	2.00	0.00	0.00	0.01	0.00
18.45	2.00	0.00	0.00	0.01	0.00	18.46	2.00	0.00	0.00	0.01	0.00
18.47	2.00	0.00	0.00	0.01	0.00	18.48	2.00	0.00	0.00	0.01	0.00
18.49	2.00	0.00	0.00	0.01	0.00	18.50	2.00	0.00	0.00	0.01	0.00
18.51	2.00	0.00	0.00	0.01	0.00	18.52	2.00	0.00	0.00	0.01	0.00
18.53	2.00	0.00	0.00	0.01	0.00	18.54	2.00	0.00	0.00	0.01	0.00
18.55	2.00	0.00	0.00	0.01	0.00	18.56	2.00	0.00	0.00	0.01	0.00
18.57	2.00	0.00	0.00	0.01	0.00	18.58	2.00	0.00	0.00	0.01	0.00
18.59	2.00	0.00	0.00	0.01	0.00	18.60	2.00	0.00	0.00	0.01	0.00
18.61	2.00	0.00	0.00	0.01	0.00	18.62	2.00	0.00	0.00	0.01	0.00
18.63	2.00	0.00	0.00	0.01	0.00	18.64	2.00	0.00	0.00	0.01	0.00
18.65	2.00	0.00	0.00	0.01	0.00	18.66	2.00	0.00	0.00	0.01	0.00
18.67	2.00	0.00	0.00	0.01	0.00	18.68	2.00	0.00	0.00	0.01	0.00
18.69	2.00	0.00	0.00	0.01	0.00	18.70	2.00	0.00	0.00	0.01	0.00
18.71	2.00	0.00	0.00	0.01	0.00	18.72	2.00	0.00	0.00	0.01	0.00
18.73	2.00	0.00	0.00	0.01	0.00	18.74	2.00	0.00	0.00	0.01	0.00
18.75	2.00	0.00	0.00	0.01	0.00	18.76	2.00	0.00	0.00	0.01	0.00
18.77	2.00	0.00	0.00	0.01	0.00	18.78	2.00	0.00	0.00	0.01	0.00
18.79	2.00	0.00	0.00	0.01	0.00	18.80	2.00	0.00	0.00	0.01	0.00
18.81	2.00	0.00	0.00	0.01	0.00	18.82	2.00	0.00	0.00	0.01	0.00
18.83	2.00	0.00	0.00	0.01	0.00	18.84	2.00	0.00	0.00	0.01	0.00
18.85	2.00	0.00	0.00	0.01	0.00	18.86	2.00	0.00	0.00	0.01	0.00
18.87	2.00	0.00	0.00	0.01	0.00	18.88	2.00	0.00	0.00	0.01	0.00
18.89	2.00	0.00	0.00	0.01	0.00	18.90	2.00	0.00	0.00	0.01	0.00
18.91	2.00	0.00	0.00	0.01	0.00	18.92	2.00	0.00	0.00	0.01	0.00
18.93	2.00	0.00	0.00	0.01	0.00	18.94	2.00	0.00	0.00	0.01	0.00
18.95	2.00	0.00	0.00	0.01	0.00	18.96	2.00	0.00	0.00	0.01	0.00
18.97	2.00	0.00	0.00	0.01	0.00	18.98	2.00	0.00	0.00	0.01	0.00
18.99	2.00	0.00	0.00	0.01	0.00	19.00	2.00	0.00	0.00	0.01	0.00
19.01	2.00	0.00	0.00	0.01	0.00	19.02	2.00	0.00	0.00	0.01	0.00
19.03	2.00	0.00	0.00	0.01	0.00	19.04	2.00	0.00	0.00	0.01	0.00
19.05	2.00	0.00	0.00	0.01	0.00	19.06	2.00	0.00	0.00	0.01	0.00
19.07	2.00	0.00	0.00	0.01	0.00	19.08	2.00	0.00	0.00	0.01	0.00
19.09	2.00	0.00	0.00	0.01	0.00	19.10	2.00	0.00	0.00	0.01	0.00
19.11	2.00	0.00	0.00	0.01	0.00	19.12	2.00	0.00	0.00	0.01	0.00
19.13	2.00	0.00	0.00	0.01	0.00	19.14	2.00	0.00	0.00	0.01	0.00
19.15	2.00	0.00	0.00	0.01	0.00	19.16	2.00	0.00	0.00	0.01	0.00
19.17	2.00	0.00	0.00	0.01	0.00	19.18	2.00	0.00	0.00	0.01	0.00
19.19	2.00	0.00	0.00	0.01	0.00	19.20	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.21	2.00	0.00	0.00	0.01	0.00	19.22	2.00	0.00	0.00	0.01	0.00
19.23	2.00	0.00	0.00	0.01	0.00	19.24	2.00	0.00	0.00	0.01	0.00
19.25	2.00	0.00	0.00	0.01	0.00	19.26	2.00	0.00	0.00	0.01	0.00
19.27	2.00	0.00	0.00	0.01	0.00	19.28	2.00	0.00	0.00	0.01	0.00
19.29	2.00	0.00	0.00	0.01	0.00	19.30	2.00	0.00	0.00	0.01	0.00
19.31	2.00	0.00	0.00	0.01	0.00	19.32	2.00	0.00	0.00	0.01	0.00
19.33	2.00	0.00	0.00	0.01	0.00	19.34	2.00	0.00	0.00	0.01	0.00
19.35	2.00	0.00	0.00	0.01	0.00	19.36	2.00	0.00	0.00	0.01	0.00
19.37	2.00	0.00	0.00	0.01	0.00	19.38	2.00	0.00	0.00	0.01	0.00
19.39	2.00	0.00	0.00	0.01	0.00	19.40	2.00	0.00	0.00	0.01	0.00
19.41	2.00	0.00	0.00	0.01	0.00	19.42	2.00	0.00	0.00	0.01	0.00
19.43	2.00	0.00	0.00	0.01	0.00	19.44	2.00	0.00	0.00	0.01	0.00
19.45	2.00	0.00	0.00	0.01	0.00	19.46	2.00	0.00	0.00	0.01	0.00
19.47	2.00	0.00	0.00	0.01	0.00	19.48	2.00	0.00	0.00	0.01	0.00
19.49	2.00	0.00	0.00	0.01	0.00	19.50	2.00	0.00	0.00	0.01	0.00
19.51	2.00	0.00	0.00	0.01	0.00	19.52	2.00	0.00	0.00	0.01	0.00
19.53	2.00	0.00	0.00	0.01	0.00	19.54	2.00	0.00	0.00	0.01	0.00
19.55	2.00	0.00	0.00	0.01	0.00	19.56	2.00	0.00	0.00	0.01	0.00
19.57	2.00	0.00	0.00	0.01	0.00	19.58	2.00	0.00	0.00	0.01	0.00
19.59	2.00	0.00	0.00	0.01	0.00	19.60	2.00	0.00	0.00	0.01	0.00
19.61	2.00	0.00	0.00	0.01	0.00	19.62	2.00	0.00	0.00	0.01	0.00
19.63	2.00	0.00	0.00	0.01	0.00	19.64	2.00	0.00	0.00	0.01	0.00
19.65	2.00	0.00	0.00	0.01	0.00	19.66	2.00	0.00	0.00	0.01	0.00
19.67	2.00	0.00	0.00	0.01	0.00	19.68	2.00	0.00	0.00	0.01	0.00
19.69	2.00	0.00	0.00	0.01	0.00	19.70	2.00	0.00	0.00	0.01	0.00
19.71	2.00	0.00	0.00	0.01	0.00	19.72	2.00	0.00	0.00	0.01	0.00
19.73	2.00	0.00	0.00	0.01	0.00	19.74	2.00	0.00	0.00	0.01	0.00
19.75	2.00	0.00	0.00	0.01	0.00	19.76	2.00	0.00	0.00	0.01	0.00
19.77	2.00	0.00	0.00	0.01	0.00	19.78	2.00	0.00	0.00	0.01	0.00
19.79	2.00	0.00	0.00	0.01	0.00	19.80	2.00	0.00	0.00	0.01	0.00
19.81	2.00	0.00	0.00	0.01	0.00	19.82	2.00	0.00	0.00	0.01	0.00
19.83	2.00	0.00	0.00	0.01	0.00	19.84	2.00	0.00	0.00	0.01	0.00
19.85	2.00	0.00	0.00	0.01	0.00	19.86	2.00	0.00	0.00	0.01	0.00
19.87	2.00	0.00	0.00	0.01	0.00	19.88	2.00	0.00	0.00	0.01	0.00
19.89	2.00	0.00	0.00	0.01	0.00	19.90	2.00	0.00	0.00	0.01	0.00
19.91	2.00	0.00	0.00	0.01	0.00	19.92	2.00	0.00	0.00	0.01	0.00
19.93	2.00	0.00	0.00	0.01	0.00	19.94	2.00	0.00	0.00	0.01	0.00
19.95	2.00	0.00	0.00	0.01	0.00	19.96	2.00	0.00	0.00	0.01	0.00
19.97	2.00	0.00	0.00	0.01	0.00	19.98	2.00	0.00	0.00	0.01	0.00
19.99	2.00	0.00	0.00	0.01	0.00	20.00	2.00	0.00	0.00	0.01	0.00

Overall liquefaction potential: 0.18

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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http://www.geologismiki.gr

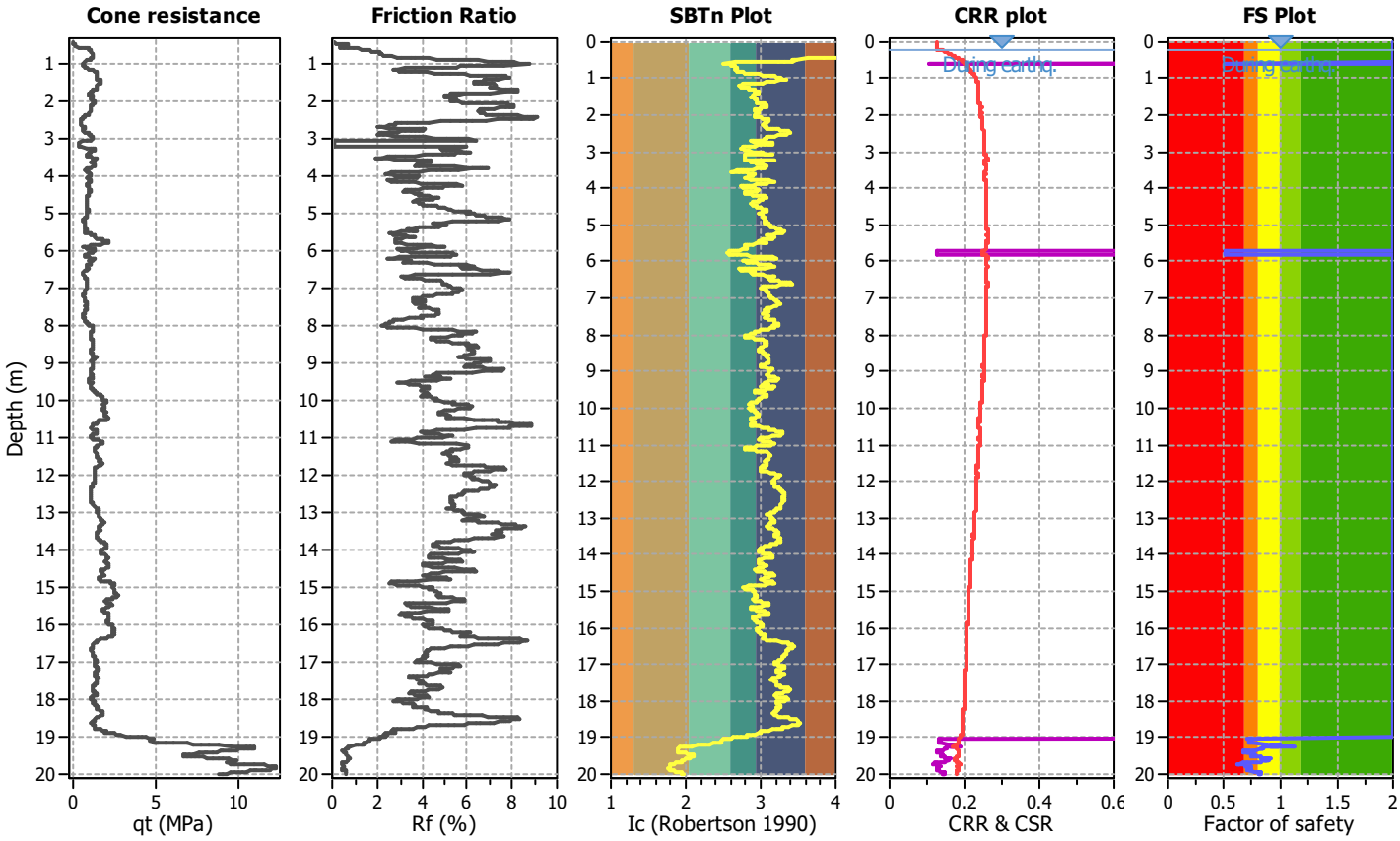
LIQUEFACTION ANALYSIS REPORT

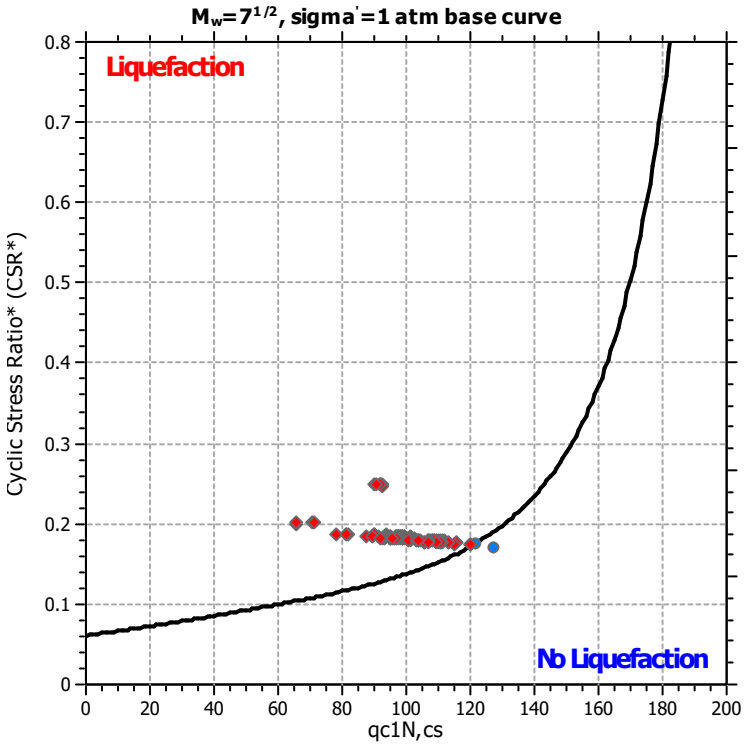
Project title : **Location :**

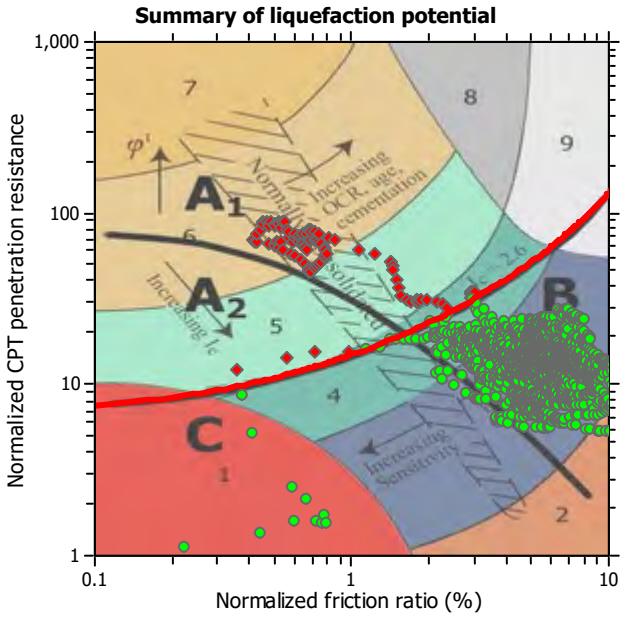
CPT file : SP110

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

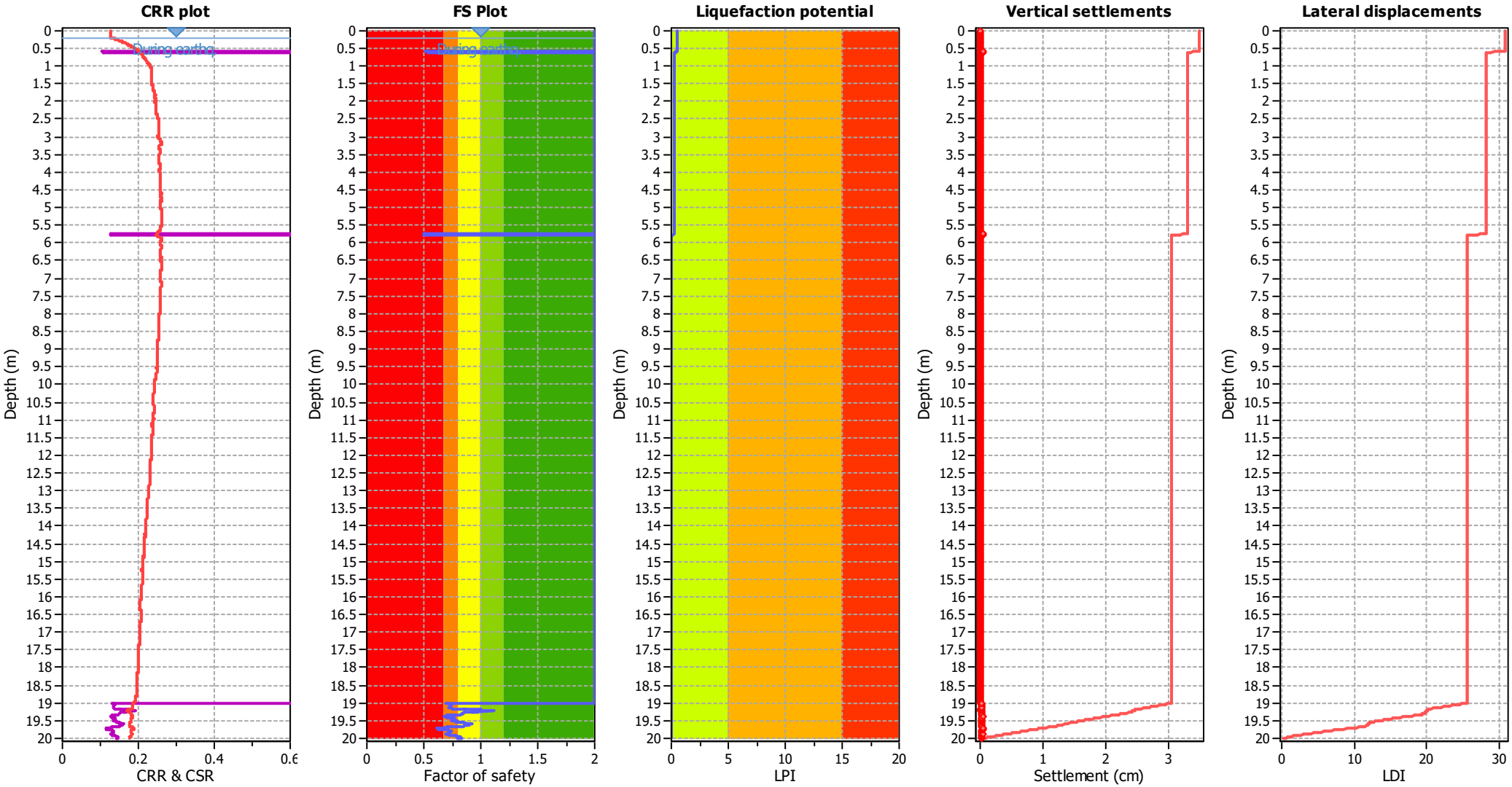






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.01	2.00	0.00	0.00	0.01	0.00	0.02	2.00	0.00	0.00	0.01	0.00
0.03	2.00	0.00	0.00	0.01	0.00	0.04	2.00	0.00	0.00	0.01	0.00
0.05	2.00	0.00	0.00	0.01	0.00	0.06	2.00	0.00	0.00	0.01	0.00
0.07	2.00	0.00	0.00	0.01	0.00	0.08	2.00	0.00	0.00	0.01	0.00
0.09	2.00	0.00	0.00	0.01	0.00	0.10	2.00	0.00	0.00	0.01	0.00
0.11	2.00	0.00	0.00	0.01	0.00	0.12	2.00	0.00	0.00	0.01	0.00
0.13	2.00	0.00	0.00	0.01	0.00	0.14	2.00	0.00	0.00	0.01	0.00
0.15	2.00	0.00	0.00	0.01	0.00	0.16	2.00	0.00	0.00	0.01	0.00
0.17	2.00	0.00	0.00	0.01	0.00	0.18	2.00	0.00	0.00	0.01	0.00
0.19	2.00	0.00	0.00	0.01	0.00	0.20	2.00	0.00	0.00	0.01	0.00
0.21	2.00	0.00	0.00	0.01	0.00	0.22	2.00	0.00	0.00	0.01	0.00
0.23	2.00	0.00	0.00	0.01	0.00	0.24	2.00	0.00	0.00	0.01	0.00
0.25	2.00	0.00	0.00	0.01	0.00	0.26	2.00	0.00	0.00	0.01	0.00
0.27	2.00	0.00	0.00	0.01	0.00	0.28	2.00	0.00	0.00	0.01	0.00
0.29	2.00	0.00	0.00	0.01	0.00	0.30	2.00	0.00	0.00	0.01	0.00
0.31	2.00	0.00	0.00	0.01	0.00	0.32	2.00	0.00	0.00	0.01	0.00
0.33	2.00	0.00	0.00	0.01	0.00	0.34	2.00	0.00	0.00	0.01	0.00
0.35	2.00	0.00	0.00	0.01	0.00	0.36	2.00	0.00	0.00	0.01	0.00
0.37	2.00	0.00	0.00	0.01	0.00	0.38	2.00	0.00	0.00	0.01	0.00
0.39	2.00	0.00	0.00	0.01	0.00	0.40	2.00	0.00	0.00	0.01	0.00
0.41	2.00	0.00	0.00	0.01	0.00	0.42	2.00	0.00	0.00	0.01	0.00
0.43	2.00	0.00	0.00	0.01	0.00	0.44	2.00	0.00	0.00	0.01	0.00
0.45	2.00	0.00	0.00	0.01	0.00	0.46	2.00	0.00	0.00	0.01	0.00
0.47	2.00	0.00	0.00	0.01	0.00	0.48	2.00	0.00	0.00	0.01	0.00
0.49	2.00	0.00	0.00	0.01	0.00	0.50	2.00	0.00	0.00	0.01	0.00
0.51	2.00	0.00	0.00	0.01	0.00	0.52	2.00	0.00	0.00	0.01	0.00
0.53	2.00	0.00	0.00	0.01	0.00	0.54	2.00	0.00	0.00	0.01	0.00
0.55	2.00	0.00	0.00	0.01	0.00	0.56	2.00	0.00	0.00	0.01	0.00
0.57	2.00	0.00	0.00	0.01	0.00	0.58	0.52	0.48	0.50	0.01	0.05
0.59	0.52	0.48	0.50	0.01	0.05	0.60	0.54	0.46	0.52	0.01	0.05
0.61	0.54	0.46	0.52	0.01	0.04	0.62	2.00	0.00	0.00	0.01	0.00
0.63	2.00	0.00	0.00	0.01	0.00	0.64	2.00	0.00	0.00	0.01	0.00
0.65	2.00	0.00	0.00	0.01	0.00	0.66	2.00	0.00	0.00	0.01	0.00
0.67	2.00	0.00	0.00	0.01	0.00	0.68	2.00	0.00	0.00	0.01	0.00
0.69	2.00	0.00	0.00	0.01	0.00	0.70	2.00	0.00	0.00	0.01	0.00
0.71	2.00	0.00	0.00	0.01	0.00	0.72	2.00	0.00	0.00	0.01	0.00
0.73	2.00	0.00	0.00	0.01	0.00	0.74	2.00	0.00	0.00	0.01	0.00
0.75	2.00	0.00	0.00	0.01	0.00	0.76	2.00	0.00	0.00	0.01	0.00
0.77	2.00	0.00	0.00	0.01	0.00	0.78	2.00	0.00	0.00	0.01	0.00
0.79	2.00	0.00	0.00	0.01	0.00	0.80	2.00	0.00	0.00	0.01	0.00
0.81	2.00	0.00	0.00	0.01	0.00	0.82	2.00	0.00	0.00	0.01	0.00
0.83	2.00	0.00	0.00	0.01	0.00	0.84	2.00	0.00	0.00	0.01	0.00
0.85	2.00	0.00	0.00	0.01	0.00	0.86	2.00	0.00	0.00	0.01	0.00
0.87	2.00	0.00	0.00	0.01	0.00	0.88	2.00	0.00	0.00	0.01	0.00
0.89	2.00	0.00	0.00	0.01	0.00	0.90	2.00	0.00	0.00	0.01	0.00
0.91	2.00	0.00	0.00	0.01	0.00	0.92	2.00	0.00	0.00	0.01	0.00
0.93	2.00	0.00	0.00	0.01	0.00	0.94	2.00	0.00	0.00	0.01	0.00
0.95	2.00	0.00	0.00	0.01	0.00	0.96	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.97	2.00	0.00	0.00	0.01	0.00	0.98	2.00	0.00	0.00	0.01	0.00
0.99	2.00	0.00	0.00	0.01	0.00	1.00	2.00	0.00	0.00	0.01	0.00
1.01	2.00	0.00	0.00	0.01	0.00	1.02	2.00	0.00	0.00	0.01	0.00
1.03	2.00	0.00	0.00	0.01	0.00	1.04	2.00	0.00	0.00	0.01	0.00
1.05	2.00	0.00	0.00	0.01	0.00	1.06	2.00	0.00	0.00	0.01	0.00
1.07	2.00	0.00	0.00	0.01	0.00	1.08	2.00	0.00	0.00	0.01	0.00
1.09	2.00	0.00	0.00	0.01	0.00	1.10	2.00	0.00	0.00	0.01	0.00
1.11	2.00	0.00	0.00	0.01	0.00	1.12	2.00	0.00	0.00	0.01	0.00
1.13	2.00	0.00	0.00	0.01	0.00	1.14	2.00	0.00	0.00	0.01	0.00
1.15	2.00	0.00	0.00	0.01	0.00	1.16	2.00	0.00	0.00	0.01	0.00
1.17	2.00	0.00	0.00	0.01	0.00	1.18	2.00	0.00	0.00	0.01	0.00
1.19	2.00	0.00	0.00	0.01	0.00	1.20	2.00	0.00	0.00	0.01	0.00
1.21	2.00	0.00	0.00	0.01	0.00	1.22	2.00	0.00	0.00	0.01	0.00
1.23	2.00	0.00	0.00	0.01	0.00	1.24	2.00	0.00	0.00	0.01	0.00
1.25	2.00	0.00	0.00	0.01	0.00	1.26	2.00	0.00	0.00	0.01	0.00
1.27	2.00	0.00	0.00	0.01	0.00	1.28	2.00	0.00	0.00	0.01	0.00
1.29	2.00	0.00	0.00	0.01	0.00	1.30	2.00	0.00	0.00	0.01	0.00
1.31	2.00	0.00	0.00	0.01	0.00	1.32	2.00	0.00	0.00	0.01	0.00
1.33	2.00	0.00	0.00	0.01	0.00	1.34	2.00	0.00	0.00	0.01	0.00
1.35	2.00	0.00	0.00	0.01	0.00	1.36	2.00	0.00	0.00	0.01	0.00
1.37	2.00	0.00	0.00	0.01	0.00	1.38	2.00	0.00	0.00	0.01	0.00
1.39	2.00	0.00	0.00	0.01	0.00	1.40	2.00	0.00	0.00	0.01	0.00
1.41	2.00	0.00	0.00	0.01	0.00	1.42	2.00	0.00	0.00	0.01	0.00
1.43	2.00	0.00	0.00	0.01	0.00	1.44	2.00	0.00	0.00	0.01	0.00
1.45	2.00	0.00	0.00	0.01	0.00	1.46	2.00	0.00	0.00	0.01	0.00
1.47	2.00	0.00	0.00	0.01	0.00	1.48	2.00	0.00	0.00	0.01	0.00
1.49	2.00	0.00	0.00	0.01	0.00	1.50	2.00	0.00	0.00	0.01	0.00
1.51	2.00	0.00	0.00	0.01	0.00	1.52	2.00	0.00	0.00	0.01	0.00
1.53	2.00	0.00	0.00	0.01	0.00	1.54	2.00	0.00	0.00	0.01	0.00
1.55	2.00	0.00	0.00	0.01	0.00	1.56	2.00	0.00	0.00	0.01	0.00
1.57	2.00	0.00	0.00	0.01	0.00	1.58	2.00	0.00	0.00	0.01	0.00
1.59	2.00	0.00	0.00	0.01	0.00	1.60	2.00	0.00	0.00	0.01	0.00
1.61	2.00	0.00	0.00	0.01	0.00	1.62	2.00	0.00	0.00	0.01	0.00
1.63	2.00	0.00	0.00	0.01	0.00	1.64	2.00	0.00	0.00	0.01	0.00
1.65	2.00	0.00	0.00	0.01	0.00	1.66	2.00	0.00	0.00	0.01	0.00
1.67	2.00	0.00	0.00	0.01	0.00	1.68	2.00	0.00	0.00	0.01	0.00
1.69	2.00	0.00	0.00	0.01	0.00	1.70	2.00	0.00	0.00	0.01	0.00
1.71	2.00	0.00	0.00	0.01	0.00	1.72	2.00	0.00	0.00	0.01	0.00
1.73	2.00	0.00	0.00	0.01	0.00	1.74	2.00	0.00	0.00	0.01	0.00
1.75	2.00	0.00	0.00	0.01	0.00	1.76	2.00	0.00	0.00	0.01	0.00
1.77	2.00	0.00	0.00	0.01	0.00	1.78	2.00	0.00	0.00	0.01	0.00
1.79	2.00	0.00	0.00	0.01	0.00	1.80	2.00	0.00	0.00	0.01	0.00
1.81	2.00	0.00	0.00	0.01	0.00	1.82	2.00	0.00	0.00	0.01	0.00
1.83	2.00	0.00	0.00	0.01	0.00	1.84	2.00	0.00	0.00	0.01	0.00
1.85	2.00	0.00	0.00	0.01	0.00	1.86	2.00	0.00	0.00	0.01	0.00
1.87	2.00	0.00	0.00	0.01	0.00	1.88	2.00	0.00	0.00	0.01	0.00
1.89	2.00	0.00	0.00	0.01	0.00	1.90	2.00	0.00	0.00	0.01	0.00
1.91	2.00	0.00	0.00	0.01	0.00	1.92	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.93	2.00	0.00	0.00	0.01	0.00	1.94	2.00	0.00	0.00	0.01	0.00
1.95	2.00	0.00	0.00	0.01	0.00	1.96	2.00	0.00	0.00	0.01	0.00
1.97	2.00	0.00	0.00	0.01	0.00	1.98	2.00	0.00	0.00	0.01	0.00
1.99	2.00	0.00	0.00	0.01	0.00	2.00	2.00	0.00	0.00	0.01	0.00
2.01	2.00	0.00	0.00	0.01	0.00	2.02	2.00	0.00	0.00	0.01	0.00
2.03	2.00	0.00	0.00	0.01	0.00	2.04	2.00	0.00	0.00	0.01	0.00
2.05	2.00	0.00	0.00	0.01	0.00	2.06	2.00	0.00	0.00	0.01	0.00
2.07	2.00	0.00	0.00	0.01	0.00	2.08	2.00	0.00	0.00	0.01	0.00
2.09	2.00	0.00	0.00	0.01	0.00	2.10	2.00	0.00	0.00	0.01	0.00
2.11	2.00	0.00	0.00	0.01	0.00	2.12	2.00	0.00	0.00	0.01	0.00
2.13	2.00	0.00	0.00	0.01	0.00	2.14	2.00	0.00	0.00	0.01	0.00
2.15	2.00	0.00	0.00	0.01	0.00	2.16	2.00	0.00	0.00	0.01	0.00
2.17	2.00	0.00	0.00	0.01	0.00	2.18	2.00	0.00	0.00	0.01	0.00
2.19	2.00	0.00	0.00	0.01	0.00	2.20	2.00	0.00	0.00	0.01	0.00
2.21	2.00	0.00	0.00	0.01	0.00	2.22	2.00	0.00	0.00	0.01	0.00
2.23	2.00	0.00	0.00	0.01	0.00	2.24	2.00	0.00	0.00	0.01	0.00
2.25	2.00	0.00	0.00	0.01	0.00	2.26	2.00	0.00	0.00	0.01	0.00
2.27	2.00	0.00	0.00	0.01	0.00	2.28	2.00	0.00	0.00	0.01	0.00
2.29	2.00	0.00	0.00	0.01	0.00	2.30	2.00	0.00	0.00	0.01	0.00
2.31	2.00	0.00	0.00	0.01	0.00	2.32	2.00	0.00	0.00	0.01	0.00
2.33	2.00	0.00	0.00	0.01	0.00	2.34	2.00	0.00	0.00	0.01	0.00
2.35	2.00	0.00	0.00	0.01	0.00	2.36	2.00	0.00	0.00	0.01	0.00
2.37	2.00	0.00	0.00	0.01	0.00	2.38	2.00	0.00	0.00	0.01	0.00
2.39	2.00	0.00	0.00	0.01	0.00	2.40	2.00	0.00	0.00	0.01	0.00
2.41	2.00	0.00	0.00	0.01	0.00	2.42	2.00	0.00	0.00	0.01	0.00
2.43	2.00	0.00	0.00	0.01	0.00	2.44	2.00	0.00	0.00	0.01	0.00
2.45	2.00	0.00	0.00	0.01	0.00	2.46	2.00	0.00	0.00	0.01	0.00
2.47	2.00	0.00	0.00	0.01	0.00	2.48	2.00	0.00	0.00	0.01	0.00
2.49	2.00	0.00	0.00	0.01	0.00	2.50	2.00	0.00	0.00	0.01	0.00
2.51	2.00	0.00	0.00	0.01	0.00	2.52	2.00	0.00	0.00	0.01	0.00
2.53	2.00	0.00	0.00	0.01	0.00	2.54	2.00	0.00	0.00	0.01	0.00
2.55	2.00	0.00	0.00	0.01	0.00	2.56	2.00	0.00	0.00	0.01	0.00
2.57	2.00	0.00	0.00	0.01	0.00	2.58	2.00	0.00	0.00	0.01	0.00
2.59	2.00	0.00	0.00	0.01	0.00	2.60	2.00	0.00	0.00	0.01	0.00
2.61	2.00	0.00	0.00	0.01	0.00	2.62	2.00	0.00	0.00	0.01	0.00
2.63	2.00	0.00	0.00	0.01	0.00	2.64	2.00	0.00	0.00	0.01	0.00
2.65	2.00	0.00	0.00	0.01	0.00	2.66	2.00	0.00	0.00	0.01	0.00
2.67	2.00	0.00	0.00	0.01	0.00	2.68	2.00	0.00	0.00	0.01	0.00
2.69	2.00	0.00	0.00	0.01	0.00	2.70	2.00	0.00	0.00	0.01	0.00
2.71	2.00	0.00	0.00	0.01	0.00	2.72	2.00	0.00	0.00	0.01	0.00
2.73	2.00	0.00	0.00	0.01	0.00	2.74	2.00	0.00	0.00	0.01	0.00
2.75	2.00	0.00	0.00	0.01	0.00	2.76	2.00	0.00	0.00	0.01	0.00
2.77	2.00	0.00	0.00	0.01	0.00	2.78	2.00	0.00	0.00	0.01	0.00
2.79	2.00	0.00	0.00	0.01	0.00	2.80	2.00	0.00	0.00	0.01	0.00
2.81	2.00	0.00	0.00	0.01	0.00	2.82	2.00	0.00	0.00	0.01	0.00
2.83	2.00	0.00	0.00	0.01	0.00	2.84	2.00	0.00	0.00	0.01	0.00
2.85	2.00	0.00	0.00	0.01	0.00	2.86	2.00	0.00	0.00	0.01	0.00
2.87	2.00	0.00	0.00	0.01	0.00	2.88	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.89	2.00	0.00	0.00	0.01	0.00	2.90	2.00	0.00	0.00	0.01	0.00
2.91	2.00	0.00	0.00	0.01	0.00	2.92	2.00	0.00	0.00	0.01	0.00
2.93	2.00	0.00	0.00	0.01	0.00	2.94	2.00	0.00	0.00	0.01	0.00
2.95	2.00	0.00	0.00	0.01	0.00	2.96	2.00	0.00	0.00	0.01	0.00
2.97	2.00	0.00	0.00	0.01	0.00	2.98	2.00	0.00	0.00	0.01	0.00
2.99	2.00	0.00	0.00	0.01	0.00	3.00	2.00	0.00	0.00	0.01	0.00
3.01	2.00	0.00	0.00	0.01	0.00	3.02	2.00	0.00	0.00	0.01	0.00
3.03	2.00	0.00	0.00	0.01	0.00	3.04	2.00	0.00	0.00	0.01	0.00
3.05	2.00	0.00	0.00	0.01	0.00	3.06	2.00	0.00	0.00	0.01	0.00
3.07	2.00	0.00	0.00	0.01	0.00	3.08	2.00	0.00	0.00	0.01	0.00
3.09	2.00	0.00	0.00	0.01	0.00	3.10	2.00	0.00	0.00	0.01	0.00
3.11	2.00	0.00	0.00	0.01	0.00	3.12	2.00	0.00	0.00	0.01	0.00
3.13	2.00	0.00	0.00	0.01	0.00	3.14	2.00	0.00	0.00	0.01	0.00
3.15	2.00	0.00	0.00	0.01	0.00	3.16	2.00	0.00	0.00	0.01	0.00
3.17	2.00	0.00	0.00	0.01	0.00	3.18	2.00	0.00	0.00	0.01	0.00
3.19	2.00	0.00	0.00	0.01	0.00	3.20	2.00	0.00	0.00	0.01	0.00
3.21	2.00	0.00	0.00	0.01	0.00	3.22	2.00	0.00	0.00	0.01	0.00
3.23	2.00	0.00	0.00	0.01	0.00	3.24	2.00	0.00	0.00	0.01	0.00
3.25	2.00	0.00	0.00	0.01	0.00	3.26	2.00	0.00	0.00	0.01	0.00
3.27	2.00	0.00	0.00	0.01	0.00	3.28	2.00	0.00	0.00	0.01	0.00
3.29	2.00	0.00	0.00	0.01	0.00	3.30	2.00	0.00	0.00	0.01	0.00
3.31	2.00	0.00	0.00	0.01	0.00	3.32	2.00	0.00	0.00	0.01	0.00
3.33	2.00	0.00	0.00	0.01	0.00	3.34	2.00	0.00	0.00	0.01	0.00
3.35	2.00	0.00	0.00	0.01	0.00	3.36	2.00	0.00	0.00	0.01	0.00
3.37	2.00	0.00	0.00	0.01	0.00	3.38	2.00	0.00	0.00	0.01	0.00
3.39	2.00	0.00	0.00	0.01	0.00	3.40	2.00	0.00	0.00	0.01	0.00
3.41	2.00	0.00	0.00	0.01	0.00	3.42	2.00	0.00	0.00	0.01	0.00
3.43	2.00	0.00	0.00	0.01	0.00	3.44	2.00	0.00	0.00	0.01	0.00
3.45	2.00	0.00	0.00	0.01	0.00	3.46	2.00	0.00	0.00	0.01	0.00
3.47	2.00	0.00	0.00	0.01	0.00	3.48	2.00	0.00	0.00	0.01	0.00
3.49	2.00	0.00	0.00	0.01	0.00	3.50	2.00	0.00	0.00	0.01	0.00
3.51	2.00	0.00	0.00	0.01	0.00	3.52	2.00	0.00	0.00	0.01	0.00
3.53	2.00	0.00	0.00	0.01	0.00	3.54	2.00	0.00	0.00	0.01	0.00
3.55	2.00	0.00	0.00	0.01	0.00	3.56	2.00	0.00	0.00	0.01	0.00
3.57	2.00	0.00	0.00	0.01	0.00	3.58	2.00	0.00	0.00	0.01	0.00
3.59	2.00	0.00	0.00	0.01	0.00	3.60	2.00	0.00	0.00	0.01	0.00
3.61	2.00	0.00	0.00	0.01	0.00	3.62	2.00	0.00	0.00	0.01	0.00
3.63	2.00	0.00	0.00	0.01	0.00	3.64	2.00	0.00	0.00	0.01	0.00
3.65	2.00	0.00	0.00	0.01	0.00	3.66	2.00	0.00	0.00	0.01	0.00
3.67	2.00	0.00	0.00	0.01	0.00	3.68	2.00	0.00	0.00	0.01	0.00
3.69	2.00	0.00	0.00	0.01	0.00	3.70	2.00	0.00	0.00	0.01	0.00
3.71	2.00	0.00	0.00	0.01	0.00	3.72	2.00	0.00	0.00	0.01	0.00
3.73	2.00	0.00	0.00	0.01	0.00	3.74	2.00	0.00	0.00	0.01	0.00
3.75	2.00	0.00	0.00	0.01	0.00	3.76	2.00	0.00	0.00	0.01	0.00
3.77	2.00	0.00	0.00	0.01	0.00	3.78	2.00	0.00	0.00	0.01	0.00
3.79	2.00	0.00	0.00	0.01	0.00	3.80	2.00	0.00	0.00	0.01	0.00
3.81	2.00	0.00	0.00	0.01	0.00	3.82	2.00	0.00	0.00	0.01	0.00
3.83	2.00	0.00	0.00	0.01	0.00	3.84	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.85	2.00	0.00	0.00	0.01	0.00	3.86	2.00	0.00	0.00	0.01	0.00
3.87	2.00	0.00	0.00	0.01	0.00	3.88	2.00	0.00	0.00	0.01	0.00
3.89	2.00	0.00	0.00	0.01	0.00	3.90	2.00	0.00	0.00	0.01	0.00
3.91	2.00	0.00	0.00	0.01	0.00	3.92	2.00	0.00	0.00	0.01	0.00
3.93	2.00	0.00	0.00	0.01	0.00	3.94	2.00	0.00	0.00	0.01	0.00
3.95	2.00	0.00	0.00	0.01	0.00	3.96	2.00	0.00	0.00	0.01	0.00
3.97	2.00	0.00	0.00	0.01	0.00	3.98	2.00	0.00	0.00	0.01	0.00
3.99	2.00	0.00	0.00	0.01	0.00	4.00	2.00	0.00	0.00	0.01	0.00
4.01	2.00	0.00	0.00	0.01	0.00	4.02	2.00	0.00	0.00	0.01	0.00
4.03	2.00	0.00	0.00	0.01	0.00	4.04	2.00	0.00	0.00	0.01	0.00
4.05	2.00	0.00	0.00	0.01	0.00	4.06	2.00	0.00	0.00	0.01	0.00
4.07	2.00	0.00	0.00	0.01	0.00	4.08	2.00	0.00	0.00	0.01	0.00
4.09	2.00	0.00	0.00	0.01	0.00	4.10	2.00	0.00	0.00	0.01	0.00
4.11	2.00	0.00	0.00	0.01	0.00	4.12	2.00	0.00	0.00	0.01	0.00
4.13	2.00	0.00	0.00	0.01	0.00	4.14	2.00	0.00	0.00	0.01	0.00
4.15	2.00	0.00	0.00	0.01	0.00	4.16	2.00	0.00	0.00	0.01	0.00
4.17	2.00	0.00	0.00	0.01	0.00	4.18	2.00	0.00	0.00	0.01	0.00
4.19	2.00	0.00	0.00	0.01	0.00	4.20	2.00	0.00	0.00	0.01	0.00
4.21	2.00	0.00	0.00	0.01	0.00	4.22	2.00	0.00	0.00	0.01	0.00
4.23	2.00	0.00	0.00	0.01	0.00	4.24	2.00	0.00	0.00	0.01	0.00
4.25	2.00	0.00	0.00	0.01	0.00	4.26	2.00	0.00	0.00	0.01	0.00
4.27	2.00	0.00	0.00	0.01	0.00	4.28	2.00	0.00	0.00	0.01	0.00
4.29	2.00	0.00	0.00	0.01	0.00	4.30	2.00	0.00	0.00	0.01	0.00
4.31	2.00	0.00	0.00	0.01	0.00	4.32	2.00	0.00	0.00	0.01	0.00
4.33	2.00	0.00	0.00	0.01	0.00	4.34	2.00	0.00	0.00	0.01	0.00
4.35	2.00	0.00	0.00	0.01	0.00	4.36	2.00	0.00	0.00	0.01	0.00
4.37	2.00	0.00	0.00	0.01	0.00	4.38	2.00	0.00	0.00	0.01	0.00
4.39	2.00	0.00	0.00	0.01	0.00	4.40	2.00	0.00	0.00	0.01	0.00
4.41	2.00	0.00	0.00	0.01	0.00	4.42	2.00	0.00	0.00	0.01	0.00
4.43	2.00	0.00	0.00	0.01	0.00	4.44	2.00	0.00	0.00	0.01	0.00
4.45	2.00	0.00	0.00	0.01	0.00	4.46	2.00	0.00	0.00	0.01	0.00
4.47	2.00	0.00	0.00	0.01	0.00	4.48	2.00	0.00	0.00	0.01	0.00
4.49	2.00	0.00	0.00	0.01	0.00	4.50	2.00	0.00	0.00	0.01	0.00
4.51	2.00	0.00	0.00	0.01	0.00	4.52	2.00	0.00	0.00	0.01	0.00
4.53	2.00	0.00	0.00	0.01	0.00	4.54	2.00	0.00	0.00	0.01	0.00
4.55	2.00	0.00	0.00	0.01	0.00	4.56	2.00	0.00	0.00	0.01	0.00
4.57	2.00	0.00	0.00	0.01	0.00	4.58	2.00	0.00	0.00	0.01	0.00
4.59	2.00	0.00	0.00	0.01	0.00	4.60	2.00	0.00	0.00	0.01	0.00
4.61	2.00	0.00	0.00	0.01	0.00	4.62	2.00	0.00	0.00	0.01	0.00
4.63	2.00	0.00	0.00	0.01	0.00	4.64	2.00	0.00	0.00	0.01	0.00
4.65	2.00	0.00	0.00	0.01	0.00	4.66	2.00	0.00	0.00	0.01	0.00
4.67	2.00	0.00	0.00	0.01	0.00	4.68	2.00	0.00	0.00	0.01	0.00
4.69	2.00	0.00	0.00	0.01	0.00	4.70	2.00	0.00	0.00	0.01	0.00
4.71	2.00	0.00	0.00	0.01	0.00	4.72	2.00	0.00	0.00	0.01	0.00
4.73	2.00	0.00	0.00	0.01	0.00	4.74	2.00	0.00	0.00	0.01	0.00
4.75	2.00	0.00	0.00	0.01	0.00	4.76	2.00	0.00	0.00	0.01	0.00
4.77	2.00	0.00	0.00	0.01	0.00	4.78	2.00	0.00	0.00	0.01	0.00
4.79	2.00	0.00	0.00	0.01	0.00	4.80	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.81	2.00	0.00	0.00	0.01	0.00	4.82	2.00	0.00	0.00	0.01	0.00
4.83	2.00	0.00	0.00	0.01	0.00	4.84	2.00	0.00	0.00	0.01	0.00
4.85	2.00	0.00	0.00	0.01	0.00	4.86	2.00	0.00	0.00	0.01	0.00
4.87	2.00	0.00	0.00	0.01	0.00	4.88	2.00	0.00	0.00	0.01	0.00
4.89	2.00	0.00	0.00	0.01	0.00	4.90	2.00	0.00	0.00	0.01	0.00
4.91	2.00	0.00	0.00	0.01	0.00	4.92	2.00	0.00	0.00	0.01	0.00
4.93	2.00	0.00	0.00	0.01	0.00	4.94	2.00	0.00	0.00	0.01	0.00
4.95	2.00	0.00	0.00	0.01	0.00	4.96	2.00	0.00	0.00	0.01	0.00
4.97	2.00	0.00	0.00	0.01	0.00	4.98	2.00	0.00	0.00	0.01	0.00
4.99	2.00	0.00	0.00	0.01	0.00	5.00	2.00	0.00	0.00	0.01	0.00
5.01	2.00	0.00	0.00	0.01	0.00	5.02	2.00	0.00	0.00	0.01	0.00
5.03	2.00	0.00	0.00	0.01	0.00	5.04	2.00	0.00	0.00	0.01	0.00
5.05	2.00	0.00	0.00	0.01	0.00	5.06	2.00	0.00	0.00	0.01	0.00
5.07	2.00	0.00	0.00	0.01	0.00	5.08	2.00	0.00	0.00	0.01	0.00
5.09	2.00	0.00	0.00	0.01	0.00	5.10	2.00	0.00	0.00	0.01	0.00
5.11	2.00	0.00	0.00	0.01	0.00	5.12	2.00	0.00	0.00	0.01	0.00
5.13	2.00	0.00	0.00	0.01	0.00	5.14	2.00	0.00	0.00	0.01	0.00
5.15	2.00	0.00	0.00	0.01	0.00	5.16	2.00	0.00	0.00	0.01	0.00
5.17	2.00	0.00	0.00	0.01	0.00	5.18	2.00	0.00	0.00	0.01	0.00
5.19	2.00	0.00	0.00	0.01	0.00	5.20	2.00	0.00	0.00	0.01	0.00
5.21	2.00	0.00	0.00	0.01	0.00	5.22	2.00	0.00	0.00	0.01	0.00
5.23	2.00	0.00	0.00	0.01	0.00	5.24	2.00	0.00	0.00	0.01	0.00
5.25	2.00	0.00	0.00	0.01	0.00	5.26	2.00	0.00	0.00	0.01	0.00
5.27	2.00	0.00	0.00	0.01	0.00	5.28	2.00	0.00	0.00	0.01	0.00
5.29	2.00	0.00	0.00	0.01	0.00	5.30	2.00	0.00	0.00	0.01	0.00
5.31	2.00	0.00	0.00	0.01	0.00	5.32	2.00	0.00	0.00	0.01	0.00
5.33	2.00	0.00	0.00	0.01	0.00	5.34	2.00	0.00	0.00	0.01	0.00
5.35	2.00	0.00	0.00	0.01	0.00	5.36	2.00	0.00	0.00	0.01	0.00
5.37	2.00	0.00	0.00	0.01	0.00	5.38	2.00	0.00	0.00	0.01	0.00
5.39	2.00	0.00	0.00	0.01	0.00	5.40	2.00	0.00	0.00	0.01	0.00
5.41	2.00	0.00	0.00	0.01	0.00	5.42	2.00	0.00	0.00	0.01	0.00
5.43	2.00	0.00	0.00	0.01	0.00	5.44	2.00	0.00	0.00	0.01	0.00
5.45	2.00	0.00	0.00	0.01	0.00	5.46	2.00	0.00	0.00	0.01	0.00
5.47	2.00	0.00	0.00	0.01	0.00	5.48	2.00	0.00	0.00	0.01	0.00
5.49	2.00	0.00	0.00	0.01	0.00	5.50	2.00	0.00	0.00	0.01	0.00
5.51	2.00	0.00	0.00	0.01	0.00	5.52	2.00	0.00	0.00	0.01	0.00
5.53	2.00	0.00	0.00	0.01	0.00	5.54	2.00	0.00	0.00	0.01	0.00
5.55	2.00	0.00	0.00	0.01	0.00	5.56	2.00	0.00	0.00	0.01	0.00
5.57	2.00	0.00	0.00	0.01	0.00	5.58	2.00	0.00	0.00	0.01	0.00
5.59	2.00	0.00	0.00	0.01	0.00	5.60	2.00	0.00	0.00	0.01	0.00
5.61	2.00	0.00	0.00	0.01	0.00	5.62	2.00	0.00	0.00	0.01	0.00
5.63	2.00	0.00	0.00	0.01	0.00	5.64	2.00	0.00	0.00	0.01	0.00
5.65	2.00	0.00	0.00	0.01	0.00	5.66	2.00	0.00	0.00	0.01	0.00
5.67	2.00	0.00	0.00	0.01	0.00	5.68	2.00	0.00	0.00	0.01	0.00
5.69	2.00	0.00	0.00	0.01	0.00	5.70	2.00	0.00	0.00	0.01	0.00
5.71	2.00	0.00	0.00	0.01	0.00	5.72	2.00	0.00	0.00	0.01	0.00
5.73	0.51	0.49	0.48	0.01	0.04	5.74	0.51	0.49	0.49	0.01	0.03
5.75	0.52	0.48	0.50	0.01	0.03	5.76	0.52	0.48	0.50	0.01	0.03

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.77	0.52	0.48	0.50	0.01	0.03	5.78	0.51	0.49	0.49	0.01	0.03
5.79	0.51	0.49	0.49	0.01	0.04	5.80	2.00	0.00	0.00	0.01	0.00
5.81	2.00	0.00	0.00	0.01	0.00	5.82	2.00	0.00	0.00	0.01	0.00
5.83	2.00	0.00	0.00	0.01	0.00	5.84	2.00	0.00	0.00	0.01	0.00
5.85	2.00	0.00	0.00	0.01	0.00	5.86	2.00	0.00	0.00	0.01	0.00
5.87	2.00	0.00	0.00	0.01	0.00	5.88	2.00	0.00	0.00	0.01	0.00
5.89	2.00	0.00	0.00	0.01	0.00	5.90	2.00	0.00	0.00	0.01	0.00
5.91	2.00	0.00	0.00	0.01	0.00	5.92	2.00	0.00	0.00	0.01	0.00
5.93	2.00	0.00	0.00	0.01	0.00	5.94	2.00	0.00	0.00	0.01	0.00
5.95	2.00	0.00	0.00	0.01	0.00	5.96	2.00	0.00	0.00	0.01	0.00
5.97	2.00	0.00	0.00	0.01	0.00	5.98	2.00	0.00	0.00	0.01	0.00
5.99	2.00	0.00	0.00	0.01	0.00	6.00	2.00	0.00	0.00	0.01	0.00
6.01	2.00	0.00	0.00	0.01	0.00	6.02	2.00	0.00	0.00	0.01	0.00
6.03	2.00	0.00	0.00	0.01	0.00	6.04	2.00	0.00	0.00	0.01	0.00
6.05	2.00	0.00	0.00	0.01	0.00	6.06	2.00	0.00	0.00	0.01	0.00
6.07	2.00	0.00	0.00	0.01	0.00	6.08	2.00	0.00	0.00	0.01	0.00
6.09	2.00	0.00	0.00	0.01	0.00	6.10	2.00	0.00	0.00	0.01	0.00
6.11	2.00	0.00	0.00	0.01	0.00	6.12	2.00	0.00	0.00	0.01	0.00
6.13	2.00	0.00	0.00	0.01	0.00	6.14	2.00	0.00	0.00	0.01	0.00
6.15	2.00	0.00	0.00	0.01	0.00	6.16	2.00	0.00	0.00	0.01	0.00
6.17	2.00	0.00	0.00	0.01	0.00	6.18	2.00	0.00	0.00	0.01	0.00
6.19	2.00	0.00	0.00	0.01	0.00	6.20	2.00	0.00	0.00	0.01	0.00
6.21	2.00	0.00	0.00	0.01	0.00	6.22	2.00	0.00	0.00	0.01	0.00
6.23	2.00	0.00	0.00	0.01	0.00	6.24	2.00	0.00	0.00	0.01	0.00
6.25	2.00	0.00	0.00	0.01	0.00	6.26	2.00	0.00	0.00	0.01	0.00
6.27	2.00	0.00	0.00	0.01	0.00	6.28	2.00	0.00	0.00	0.01	0.00
6.29	2.00	0.00	0.00	0.01	0.00	6.30	2.00	0.00	0.00	0.01	0.00
6.31	2.00	0.00	0.00	0.01	0.00	6.32	2.00	0.00	0.00	0.01	0.00
6.33	2.00	0.00	0.00	0.01	0.00	6.34	2.00	0.00	0.00	0.01	0.00
6.35	2.00	0.00	0.00	0.01	0.00	6.36	2.00	0.00	0.00	0.01	0.00
6.37	2.00	0.00	0.00	0.01	0.00	6.38	2.00	0.00	0.00	0.01	0.00
6.39	2.00	0.00	0.00	0.01	0.00	6.40	2.00	0.00	0.00	0.01	0.00
6.41	2.00	0.00	0.00	0.01	0.00	6.42	2.00	0.00	0.00	0.01	0.00
6.43	2.00	0.00	0.00	0.01	0.00	6.44	2.00	0.00	0.00	0.01	0.00
6.45	2.00	0.00	0.00	0.01	0.00	6.46	2.00	0.00	0.00	0.01	0.00
6.47	2.00	0.00	0.00	0.01	0.00	6.48	2.00	0.00	0.00	0.01	0.00
6.49	2.00	0.00	0.00	0.01	0.00	6.50	2.00	0.00	0.00	0.01	0.00
6.51	2.00	0.00	0.00	0.01	0.00	6.52	2.00	0.00	0.00	0.01	0.00
6.53	2.00	0.00	0.00	0.01	0.00	6.54	2.00	0.00	0.00	0.01	0.00
6.55	2.00	0.00	0.00	0.01	0.00	6.56	2.00	0.00	0.00	0.01	0.00
6.57	2.00	0.00	0.00	0.01	0.00	6.58	2.00	0.00	0.00	0.01	0.00
6.59	2.00	0.00	0.00	0.01	0.00	6.60	2.00	0.00	0.00	0.01	0.00
6.61	2.00	0.00	0.00	0.01	0.00	6.62	2.00	0.00	0.00	0.01	0.00
6.63	2.00	0.00	0.00	0.01	0.00	6.64	2.00	0.00	0.00	0.01	0.00
6.65	2.00	0.00	0.00	0.01	0.00	6.66	2.00	0.00	0.00	0.01	0.00
6.67	2.00	0.00	0.00	0.01	0.00	6.68	2.00	0.00	0.00	0.01	0.00
6.69	2.00	0.00	0.00	0.01	0.00	6.70	2.00	0.00	0.00	0.01	0.00
6.71	2.00	0.00	0.00	0.01	0.00	6.72	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.73	2.00	0.00	0.00	0.01	0.00	6.74	2.00	0.00	0.00	0.01	0.00
6.75	2.00	0.00	0.00	0.01	0.00	6.76	2.00	0.00	0.00	0.01	0.00
6.77	2.00	0.00	0.00	0.01	0.00	6.78	2.00	0.00	0.00	0.01	0.00
6.79	2.00	0.00	0.00	0.01	0.00	6.80	2.00	0.00	0.00	0.01	0.00
6.81	2.00	0.00	0.00	0.01	0.00	6.82	2.00	0.00	0.00	0.01	0.00
6.83	2.00	0.00	0.00	0.01	0.00	6.84	2.00	0.00	0.00	0.01	0.00
6.85	2.00	0.00	0.00	0.01	0.00	6.86	2.00	0.00	0.00	0.01	0.00
6.87	2.00	0.00	0.00	0.01	0.00	6.88	2.00	0.00	0.00	0.01	0.00
6.89	2.00	0.00	0.00	0.01	0.00	6.90	2.00	0.00	0.00	0.01	0.00
6.91	2.00	0.00	0.00	0.01	0.00	6.92	2.00	0.00	0.00	0.01	0.00
6.93	2.00	0.00	0.00	0.01	0.00	6.94	2.00	0.00	0.00	0.01	0.00
6.95	2.00	0.00	0.00	0.01	0.00	6.96	2.00	0.00	0.00	0.01	0.00
6.97	2.00	0.00	0.00	0.01	0.00	6.98	2.00	0.00	0.00	0.01	0.00
6.99	2.00	0.00	0.00	0.01	0.00	7.00	2.00	0.00	0.00	0.01	0.00
7.01	2.00	0.00	0.00	0.01	0.00	7.02	2.00	0.00	0.00	0.01	0.00
7.03	2.00	0.00	0.00	0.01	0.00	7.04	2.00	0.00	0.00	0.01	0.00
7.05	2.00	0.00	0.00	0.01	0.00	7.06	2.00	0.00	0.00	0.01	0.00
7.07	2.00	0.00	0.00	0.01	0.00	7.08	2.00	0.00	0.00	0.01	0.00
7.09	2.00	0.00	0.00	0.01	0.00	7.10	2.00	0.00	0.00	0.01	0.00
7.11	2.00	0.00	0.00	0.01	0.00	7.12	2.00	0.00	0.00	0.01	0.00
7.13	2.00	0.00	0.00	0.01	0.00	7.14	2.00	0.00	0.00	0.01	0.00
7.15	2.00	0.00	0.00	0.01	0.00	7.16	2.00	0.00	0.00	0.01	0.00
7.17	2.00	0.00	0.00	0.01	0.00	7.18	2.00	0.00	0.00	0.01	0.00
7.19	2.00	0.00	0.00	0.01	0.00	7.20	2.00	0.00	0.00	0.01	0.00
7.21	2.00	0.00	0.00	0.01	0.00	7.22	2.00	0.00	0.00	0.01	0.00
7.23	2.00	0.00	0.00	0.01	0.00	7.24	2.00	0.00	0.00	0.01	0.00
7.25	2.00	0.00	0.00	0.01	0.00	7.26	2.00	0.00	0.00	0.01	0.00
7.27	2.00	0.00	0.00	0.01	0.00	7.28	2.00	0.00	0.00	0.01	0.00
7.29	2.00	0.00	0.00	0.01	0.00	7.30	2.00	0.00	0.00	0.01	0.00
7.31	2.00	0.00	0.00	0.01	0.00	7.32	2.00	0.00	0.00	0.01	0.00
7.33	2.00	0.00	0.00	0.01	0.00	7.34	2.00	0.00	0.00	0.01	0.00
7.35	2.00	0.00	0.00	0.01	0.00	7.36	2.00	0.00	0.00	0.01	0.00
7.37	2.00	0.00	0.00	0.01	0.00	7.38	2.00	0.00	0.00	0.01	0.00
7.39	2.00	0.00	0.00	0.01	0.00	7.40	2.00	0.00	0.00	0.01	0.00
7.41	2.00	0.00	0.00	0.01	0.00	7.42	2.00	0.00	0.00	0.01	0.00
7.43	2.00	0.00	0.00	0.01	0.00	7.44	2.00	0.00	0.00	0.01	0.00
7.45	2.00	0.00	0.00	0.01	0.00	7.46	2.00	0.00	0.00	0.01	0.00
7.47	2.00	0.00	0.00	0.01	0.00	7.48	2.00	0.00	0.00	0.01	0.00
7.49	2.00	0.00	0.00	0.01	0.00	7.50	2.00	0.00	0.00	0.01	0.00
7.51	2.00	0.00	0.00	0.01	0.00	7.52	2.00	0.00	0.00	0.01	0.00
7.53	2.00	0.00	0.00	0.01	0.00	7.54	2.00	0.00	0.00	0.01	0.00
7.55	2.00	0.00	0.00	0.01	0.00	7.56	2.00	0.00	0.00	0.01	0.00
7.57	2.00	0.00	0.00	0.01	0.00	7.58	2.00	0.00	0.00	0.01	0.00
7.59	2.00	0.00	0.00	0.01	0.00	7.60	2.00	0.00	0.00	0.01	0.00
7.61	2.00	0.00	0.00	0.01	0.00	7.62	2.00	0.00	0.00	0.01	0.00
7.63	2.00	0.00	0.00	0.01	0.00	7.64	2.00	0.00	0.00	0.01	0.00
7.65	2.00	0.00	0.00	0.01	0.00	7.66	2.00	0.00	0.00	0.01	0.00
7.67	2.00	0.00	0.00	0.01	0.00	7.68	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.69	2.00	0.00	0.00	0.01	0.00	7.70	2.00	0.00	0.00	0.01	0.00
7.71	2.00	0.00	0.00	0.01	0.00	7.72	2.00	0.00	0.00	0.01	0.00
7.73	2.00	0.00	0.00	0.01	0.00	7.74	2.00	0.00	0.00	0.01	0.00
7.75	2.00	0.00	0.00	0.01	0.00	7.76	2.00	0.00	0.00	0.01	0.00
7.77	2.00	0.00	0.00	0.01	0.00	7.78	2.00	0.00	0.00	0.01	0.00
7.79	2.00	0.00	0.00	0.01	0.00	7.80	2.00	0.00	0.00	0.01	0.00
7.81	2.00	0.00	0.00	0.01	0.00	7.82	2.00	0.00	0.00	0.01	0.00
7.83	2.00	0.00	0.00	0.01	0.00	7.84	2.00	0.00	0.00	0.01	0.00
7.85	2.00	0.00	0.00	0.01	0.00	7.86	2.00	0.00	0.00	0.01	0.00
7.87	2.00	0.00	0.00	0.01	0.00	7.88	2.00	0.00	0.00	0.01	0.00
7.89	2.00	0.00	0.00	0.01	0.00	7.90	2.00	0.00	0.00	0.01	0.00
7.91	2.00	0.00	0.00	0.01	0.00	7.92	2.00	0.00	0.00	0.01	0.00
7.93	2.00	0.00	0.00	0.01	0.00	7.94	2.00	0.00	0.00	0.01	0.00
7.95	2.00	0.00	0.00	0.01	0.00	7.96	2.00	0.00	0.00	0.01	0.00
7.97	2.00	0.00	0.00	0.01	0.00	7.98	2.00	0.00	0.00	0.01	0.00
7.99	2.00	0.00	0.00	0.01	0.00	8.00	2.00	0.00	0.00	0.01	0.00
8.01	2.00	0.00	0.00	0.01	0.00	8.02	2.00	0.00	0.00	0.01	0.00
8.03	2.00	0.00	0.00	0.01	0.00	8.04	2.00	0.00	0.00	0.01	0.00
8.05	2.00	0.00	0.00	0.01	0.00	8.06	2.00	0.00	0.00	0.01	0.00
8.07	2.00	0.00	0.00	0.01	0.00	8.08	2.00	0.00	0.00	0.01	0.00
8.09	2.00	0.00	0.00	0.01	0.00	8.10	2.00	0.00	0.00	0.01	0.00
8.11	2.00	0.00	0.00	0.01	0.00	8.12	2.00	0.00	0.00	0.01	0.00
8.13	2.00	0.00	0.00	0.01	0.00	8.14	2.00	0.00	0.00	0.01	0.00
8.15	2.00	0.00	0.00	0.01	0.00	8.16	2.00	0.00	0.00	0.01	0.00
8.17	2.00	0.00	0.00	0.01	0.00	8.18	2.00	0.00	0.00	0.01	0.00
8.19	2.00	0.00	0.00	0.01	0.00	8.20	2.00	0.00	0.00	0.01	0.00
8.21	2.00	0.00	0.00	0.01	0.00	8.22	2.00	0.00	0.00	0.01	0.00
8.23	2.00	0.00	0.00	0.01	0.00	8.24	2.00	0.00	0.00	0.01	0.00
8.25	2.00	0.00	0.00	0.01	0.00	8.26	2.00	0.00	0.00	0.01	0.00
8.27	2.00	0.00	0.00	0.01	0.00	8.28	2.00	0.00	0.00	0.01	0.00
8.29	2.00	0.00	0.00	0.01	0.00	8.30	2.00	0.00	0.00	0.01	0.00
8.31	2.00	0.00	0.00	0.01	0.00	8.32	2.00	0.00	0.00	0.01	0.00
8.33	2.00	0.00	0.00	0.01	0.00	8.34	2.00	0.00	0.00	0.01	0.00
8.35	2.00	0.00	0.00	0.01	0.00	8.36	2.00	0.00	0.00	0.01	0.00
8.37	2.00	0.00	0.00	0.01	0.00	8.38	2.00	0.00	0.00	0.01	0.00
8.39	2.00	0.00	0.00	0.01	0.00	8.40	2.00	0.00	0.00	0.01	0.00
8.41	2.00	0.00	0.00	0.01	0.00	8.42	2.00	0.00	0.00	0.01	0.00
8.43	2.00	0.00	0.00	0.01	0.00	8.44	2.00	0.00	0.00	0.01	0.00
8.45	2.00	0.00	0.00	0.01	0.00	8.46	2.00	0.00	0.00	0.01	0.00
8.47	2.00	0.00	0.00	0.01	0.00	8.48	2.00	0.00	0.00	0.01	0.00
8.49	2.00	0.00	0.00	0.01	0.00	8.50	2.00	0.00	0.00	0.01	0.00
8.51	2.00	0.00	0.00	0.01	0.00	8.52	2.00	0.00	0.00	0.01	0.00
8.53	2.00	0.00	0.00	0.01	0.00	8.54	2.00	0.00	0.00	0.01	0.00
8.55	2.00	0.00	0.00	0.01	0.00	8.56	2.00	0.00	0.00	0.01	0.00
8.57	2.00	0.00	0.00	0.01	0.00	8.58	2.00	0.00	0.00	0.01	0.00
8.59	2.00	0.00	0.00	0.01	0.00	8.60	2.00	0.00	0.00	0.01	0.00
8.61	2.00	0.00	0.00	0.01	0.00	8.62	2.00	0.00	0.00	0.01	0.00
8.63	2.00	0.00	0.00	0.01	0.00	8.64	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.65	2.00	0.00	0.00	0.01	0.00	8.66	2.00	0.00	0.00	0.01	0.00
8.67	2.00	0.00	0.00	0.01	0.00	8.68	2.00	0.00	0.00	0.01	0.00
8.69	2.00	0.00	0.00	0.01	0.00	8.70	2.00	0.00	0.00	0.01	0.00
8.71	2.00	0.00	0.00	0.01	0.00	8.72	2.00	0.00	0.00	0.01	0.00
8.73	2.00	0.00	0.00	0.01	0.00	8.74	2.00	0.00	0.00	0.01	0.00
8.75	2.00	0.00	0.00	0.01	0.00	8.76	2.00	0.00	0.00	0.01	0.00
8.77	2.00	0.00	0.00	0.01	0.00	8.78	2.00	0.00	0.00	0.01	0.00
8.79	2.00	0.00	0.00	0.01	0.00	8.80	2.00	0.00	0.00	0.01	0.00
8.81	2.00	0.00	0.00	0.01	0.00	8.82	2.00	0.00	0.00	0.01	0.00
8.83	2.00	0.00	0.00	0.01	0.00	8.84	2.00	0.00	0.00	0.01	0.00
8.85	2.00	0.00	0.00	0.01	0.00	8.86	2.00	0.00	0.00	0.01	0.00
8.87	2.00	0.00	0.00	0.01	0.00	8.88	2.00	0.00	0.00	0.01	0.00
8.89	2.00	0.00	0.00	0.01	0.00	8.90	2.00	0.00	0.00	0.01	0.00
8.91	2.00	0.00	0.00	0.01	0.00	8.92	2.00	0.00	0.00	0.01	0.00
8.93	2.00	0.00	0.00	0.01	0.00	8.94	2.00	0.00	0.00	0.01	0.00
8.95	2.00	0.00	0.00	0.01	0.00	8.96	2.00	0.00	0.00	0.01	0.00
8.97	2.00	0.00	0.00	0.01	0.00	8.98	2.00	0.00	0.00	0.01	0.00
8.99	2.00	0.00	0.00	0.01	0.00	9.00	2.00	0.00	0.00	0.01	0.00
9.01	2.00	0.00	0.00	0.01	0.00	9.02	2.00	0.00	0.00	0.01	0.00
9.03	2.00	0.00	0.00	0.01	0.00	9.04	2.00	0.00	0.00	0.01	0.00
9.05	2.00	0.00	0.00	0.01	0.00	9.06	2.00	0.00	0.00	0.01	0.00
9.07	2.00	0.00	0.00	0.01	0.00	9.08	2.00	0.00	0.00	0.01	0.00
9.09	2.00	0.00	0.00	0.01	0.00	9.10	2.00	0.00	0.00	0.01	0.00
9.11	2.00	0.00	0.00	0.01	0.00	9.12	2.00	0.00	0.00	0.01	0.00
9.13	2.00	0.00	0.00	0.01	0.00	9.14	2.00	0.00	0.00	0.01	0.00
9.15	2.00	0.00	0.00	0.01	0.00	9.16	2.00	0.00	0.00	0.01	0.00
9.17	2.00	0.00	0.00	0.01	0.00	9.18	2.00	0.00	0.00	0.01	0.00
9.19	2.00	0.00	0.00	0.01	0.00	9.20	2.00	0.00	0.00	0.01	0.00
9.21	2.00	0.00	0.00	0.01	0.00	9.22	2.00	0.00	0.00	0.01	0.00
9.23	2.00	0.00	0.00	0.01	0.00	9.24	2.00	0.00	0.00	0.01	0.00
9.25	2.00	0.00	0.00	0.01	0.00	9.26	2.00	0.00	0.00	0.01	0.00
9.27	2.00	0.00	0.00	0.01	0.00	9.28	2.00	0.00	0.00	0.01	0.00
9.29	2.00	0.00	0.00	0.01	0.00	9.30	2.00	0.00	0.00	0.01	0.00
9.31	2.00	0.00	0.00	0.01	0.00	9.32	2.00	0.00	0.00	0.01	0.00
9.33	2.00	0.00	0.00	0.01	0.00	9.34	2.00	0.00	0.00	0.01	0.00
9.35	2.00	0.00	0.00	0.01	0.00	9.36	2.00	0.00	0.00	0.01	0.00
9.37	2.00	0.00	0.00	0.01	0.00	9.38	2.00	0.00	0.00	0.01	0.00
9.39	2.00	0.00	0.00	0.01	0.00	9.40	2.00	0.00	0.00	0.01	0.00
9.41	2.00	0.00	0.00	0.01	0.00	9.42	2.00	0.00	0.00	0.01	0.00
9.43	2.00	0.00	0.00	0.01	0.00	9.44	2.00	0.00	0.00	0.01	0.00
9.45	2.00	0.00	0.00	0.01	0.00	9.46	2.00	0.00	0.00	0.01	0.00
9.47	2.00	0.00	0.00	0.01	0.00	9.48	2.00	0.00	0.00	0.01	0.00
9.49	2.00	0.00	0.00	0.01	0.00	9.50	2.00	0.00	0.00	0.01	0.00
9.51	2.00	0.00	0.00	0.01	0.00	9.52	2.00	0.00	0.00	0.01	0.00
9.53	2.00	0.00	0.00	0.01	0.00	9.54	2.00	0.00	0.00	0.01	0.00
9.55	2.00	0.00	0.00	0.01	0.00	9.56	2.00	0.00	0.00	0.01	0.00
9.57	2.00	0.00	0.00	0.01	0.00	9.58	2.00	0.00	0.00	0.01	0.00
9.59	2.00	0.00	0.00	0.01	0.00	9.60	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.61	2.00	0.00	0.00	0.01	0.00	9.62	2.00	0.00	0.00	0.01	0.00
9.63	2.00	0.00	0.00	0.01	0.00	9.64	2.00	0.00	0.00	0.01	0.00
9.65	2.00	0.00	0.00	0.01	0.00	9.66	2.00	0.00	0.00	0.01	0.00
9.67	2.00	0.00	0.00	0.01	0.00	9.68	2.00	0.00	0.00	0.01	0.00
9.69	2.00	0.00	0.00	0.01	0.00	9.70	2.00	0.00	0.00	0.01	0.00
9.71	2.00	0.00	0.00	0.01	0.00	9.72	2.00	0.00	0.00	0.01	0.00
9.73	2.00	0.00	0.00	0.01	0.00	9.74	2.00	0.00	0.00	0.01	0.00
9.75	2.00	0.00	0.00	0.01	0.00	9.76	2.00	0.00	0.00	0.01	0.00
9.77	2.00	0.00	0.00	0.01	0.00	9.78	2.00	0.00	0.00	0.01	0.00
9.79	2.00	0.00	0.00	0.01	0.00	9.80	2.00	0.00	0.00	0.01	0.00
9.81	2.00	0.00	0.00	0.01	0.00	9.82	2.00	0.00	0.00	0.01	0.00
9.83	2.00	0.00	0.00	0.01	0.00	9.84	2.00	0.00	0.00	0.01	0.00
9.85	2.00	0.00	0.00	0.01	0.00	9.86	2.00	0.00	0.00	0.01	0.00
9.87	2.00	0.00	0.00	0.01	0.00	9.88	2.00	0.00	0.00	0.01	0.00
9.89	2.00	0.00	0.00	0.01	0.00	9.90	2.00	0.00	0.00	0.01	0.00
9.91	2.00	0.00	0.00	0.01	0.00	9.92	2.00	0.00	0.00	0.01	0.00
9.93	2.00	0.00	0.00	0.01	0.00	9.94	2.00	0.00	0.00	0.01	0.00
9.95	2.00	0.00	0.00	0.01	0.00	9.96	2.00	0.00	0.00	0.01	0.00
9.97	2.00	0.00	0.00	0.01	0.00	9.98	2.00	0.00	0.00	0.01	0.00
9.99	2.00	0.00	0.00	0.01	0.00	10.00	2.00	0.00	0.00	0.01	0.00
10.01	2.00	0.00	0.00	0.01	0.00	10.02	2.00	0.00	0.00	0.01	0.00
10.03	2.00	0.00	0.00	0.01	0.00	10.04	2.00	0.00	0.00	0.01	0.00
10.05	2.00	0.00	0.00	0.01	0.00	10.06	2.00	0.00	0.00	0.01	0.00
10.07	2.00	0.00	0.00	0.01	0.00	10.08	2.00	0.00	0.00	0.01	0.00
10.09	2.00	0.00	0.00	0.01	0.00	10.10	2.00	0.00	0.00	0.01	0.00
10.11	2.00	0.00	0.00	0.01	0.00	10.12	2.00	0.00	0.00	0.01	0.00
10.13	2.00	0.00	0.00	0.01	0.00	10.14	2.00	0.00	0.00	0.01	0.00
10.15	2.00	0.00	0.00	0.01	0.00	10.16	2.00	0.00	0.00	0.01	0.00
10.17	2.00	0.00	0.00	0.01	0.00	10.18	2.00	0.00	0.00	0.01	0.00
10.19	2.00	0.00	0.00	0.01	0.00	10.20	2.00	0.00	0.00	0.01	0.00
10.21	2.00	0.00	0.00	0.01	0.00	10.22	2.00	0.00	0.00	0.01	0.00
10.23	2.00	0.00	0.00	0.01	0.00	10.24	2.00	0.00	0.00	0.01	0.00
10.25	2.00	0.00	0.00	0.01	0.00	10.26	2.00	0.00	0.00	0.01	0.00
10.27	2.00	0.00	0.00	0.01	0.00	10.28	2.00	0.00	0.00	0.01	0.00
10.29	2.00	0.00	0.00	0.01	0.00	10.30	2.00	0.00	0.00	0.01	0.00
10.31	2.00	0.00	0.00	0.01	0.00	10.32	2.00	0.00	0.00	0.01	0.00
10.33	2.00	0.00	0.00	0.01	0.00	10.34	2.00	0.00	0.00	0.01	0.00
10.35	2.00	0.00	0.00	0.01	0.00	10.36	2.00	0.00	0.00	0.01	0.00
10.37	2.00	0.00	0.00	0.01	0.00	10.38	2.00	0.00	0.00	0.01	0.00
10.39	2.00	0.00	0.00	0.01	0.00	10.40	2.00	0.00	0.00	0.01	0.00
10.41	2.00	0.00	0.00	0.01	0.00	10.42	2.00	0.00	0.00	0.01	0.00
10.43	2.00	0.00	0.00	0.01	0.00	10.44	2.00	0.00	0.00	0.01	0.00
10.45	2.00	0.00	0.00	0.01	0.00	10.46	2.00	0.00	0.00	0.01	0.00
10.47	2.00	0.00	0.00	0.01	0.00	10.48	2.00	0.00	0.00	0.01	0.00
10.49	2.00	0.00	0.00	0.01	0.00	10.50	2.00	0.00	0.00	0.01	0.00
10.51	2.00	0.00	0.00	0.01	0.00	10.52	2.00	0.00	0.00	0.01	0.00
10.53	2.00	0.00	0.00	0.01	0.00	10.54	2.00	0.00	0.00	0.01	0.00
10.55	2.00	0.00	0.00	0.01	0.00	10.56	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.57	2.00	0.00	0.00	0.01	0.00	10.58	2.00	0.00	0.00	0.01	0.00
10.59	2.00	0.00	0.00	0.01	0.00	10.60	2.00	0.00	0.00	0.01	0.00
10.61	2.00	0.00	0.00	0.01	0.00	10.62	2.00	0.00	0.00	0.01	0.00
10.63	2.00	0.00	0.00	0.01	0.00	10.64	2.00	0.00	0.00	0.01	0.00
10.65	2.00	0.00	0.00	0.01	0.00	10.66	2.00	0.00	0.00	0.01	0.00
10.67	2.00	0.00	0.00	0.01	0.00	10.68	2.00	0.00	0.00	0.01	0.00
10.69	2.00	0.00	0.00	0.01	0.00	10.70	2.00	0.00	0.00	0.01	0.00
10.71	2.00	0.00	0.00	0.01	0.00	10.72	2.00	0.00	0.00	0.01	0.00
10.73	2.00	0.00	0.00	0.01	0.00	10.74	2.00	0.00	0.00	0.01	0.00
10.75	2.00	0.00	0.00	0.01	0.00	10.76	2.00	0.00	0.00	0.01	0.00
10.77	2.00	0.00	0.00	0.01	0.00	10.78	2.00	0.00	0.00	0.01	0.00
10.79	2.00	0.00	0.00	0.01	0.00	10.80	2.00	0.00	0.00	0.01	0.00
10.81	2.00	0.00	0.00	0.01	0.00	10.82	2.00	0.00	0.00	0.01	0.00
10.83	2.00	0.00	0.00	0.01	0.00	10.84	2.00	0.00	0.00	0.01	0.00
10.85	2.00	0.00	0.00	0.01	0.00	10.86	2.00	0.00	0.00	0.01	0.00
10.87	2.00	0.00	0.00	0.01	0.00	10.88	2.00	0.00	0.00	0.01	0.00
10.89	2.00	0.00	0.00	0.01	0.00	10.90	2.00	0.00	0.00	0.01	0.00
10.91	2.00	0.00	0.00	0.01	0.00	10.92	2.00	0.00	0.00	0.01	0.00
10.93	2.00	0.00	0.00	0.01	0.00	10.94	2.00	0.00	0.00	0.01	0.00
10.95	2.00	0.00	0.00	0.01	0.00	10.96	2.00	0.00	0.00	0.01	0.00
10.97	2.00	0.00	0.00	0.01	0.00	10.98	2.00	0.00	0.00	0.01	0.00
10.99	2.00	0.00	0.00	0.01	0.00	11.00	2.00	0.00	0.00	0.01	0.00
11.01	2.00	0.00	0.00	0.01	0.00	11.02	2.00	0.00	0.00	0.01	0.00
11.03	2.00	0.00	0.00	0.01	0.00	11.04	2.00	0.00	0.00	0.01	0.00
11.05	2.00	0.00	0.00	0.01	0.00	11.06	2.00	0.00	0.00	0.01	0.00
11.07	2.00	0.00	0.00	0.01	0.00	11.08	2.00	0.00	0.00	0.01	0.00
11.09	2.00	0.00	0.00	0.01	0.00	11.10	2.00	0.00	0.00	0.01	0.00
11.11	2.00	0.00	0.00	0.01	0.00	11.12	2.00	0.00	0.00	0.01	0.00
11.13	2.00	0.00	0.00	0.01	0.00	11.14	2.00	0.00	0.00	0.01	0.00
11.15	2.00	0.00	0.00	0.01	0.00	11.16	2.00	0.00	0.00	0.01	0.00
11.17	2.00	0.00	0.00	0.01	0.00	11.18	2.00	0.00	0.00	0.01	0.00
11.19	2.00	0.00	0.00	0.01	0.00	11.20	2.00	0.00	0.00	0.01	0.00
11.21	2.00	0.00	0.00	0.01	0.00	11.22	2.00	0.00	0.00	0.01	0.00
11.23	2.00	0.00	0.00	0.01	0.00	11.24	2.00	0.00	0.00	0.01	0.00
11.25	2.00	0.00	0.00	0.01	0.00	11.26	2.00	0.00	0.00	0.01	0.00
11.27	2.00	0.00	0.00	0.01	0.00	11.28	2.00	0.00	0.00	0.01	0.00
11.29	2.00	0.00	0.00	0.01	0.00	11.30	2.00	0.00	0.00	0.01	0.00
11.31	2.00	0.00	0.00	0.01	0.00	11.32	2.00	0.00	0.00	0.01	0.00
11.33	2.00	0.00	0.00	0.01	0.00	11.34	2.00	0.00	0.00	0.01	0.00
11.35	2.00	0.00	0.00	0.01	0.00	11.36	2.00	0.00	0.00	0.01	0.00
11.37	2.00	0.00	0.00	0.01	0.00	11.38	2.00	0.00	0.00	0.01	0.00
11.39	2.00	0.00	0.00	0.01	0.00	11.40	2.00	0.00	0.00	0.01	0.00
11.41	2.00	0.00	0.00	0.01	0.00	11.42	2.00	0.00	0.00	0.01	0.00
11.43	2.00	0.00	0.00	0.01	0.00	11.44	2.00	0.00	0.00	0.01	0.00
11.45	2.00	0.00	0.00	0.01	0.00	11.46	2.00	0.00	0.00	0.01	0.00
11.47	2.00	0.00	0.00	0.01	0.00	11.48	2.00	0.00	0.00	0.01	0.00
11.49	2.00	0.00	0.00	0.01	0.00	11.50	2.00	0.00	0.00	0.01	0.00
11.51	2.00	0.00	0.00	0.01	0.00	11.52	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.53	2.00	0.00	0.00	0.01	0.00	11.54	2.00	0.00	0.00	0.01	0.00
11.55	2.00	0.00	0.00	0.01	0.00	11.56	2.00	0.00	0.00	0.01	0.00
11.57	2.00	0.00	0.00	0.01	0.00	11.58	2.00	0.00	0.00	0.01	0.00
11.59	2.00	0.00	0.00	0.01	0.00	11.60	2.00	0.00	0.00	0.01	0.00
11.61	2.00	0.00	0.00	0.01	0.00	11.62	2.00	0.00	0.00	0.01	0.00
11.63	2.00	0.00	0.00	0.01	0.00	11.64	2.00	0.00	0.00	0.01	0.00
11.65	2.00	0.00	0.00	0.01	0.00	11.66	2.00	0.00	0.00	0.01	0.00
11.67	2.00	0.00	0.00	0.01	0.00	11.68	2.00	0.00	0.00	0.01	0.00
11.69	2.00	0.00	0.00	0.01	0.00	11.70	2.00	0.00	0.00	0.01	0.00
11.71	2.00	0.00	0.00	0.01	0.00	11.72	2.00	0.00	0.00	0.01	0.00
11.73	2.00	0.00	0.00	0.01	0.00	11.74	2.00	0.00	0.00	0.01	0.00
11.75	2.00	0.00	0.00	0.01	0.00	11.76	2.00	0.00	0.00	0.01	0.00
11.77	2.00	0.00	0.00	0.01	0.00	11.78	2.00	0.00	0.00	0.01	0.00
11.79	2.00	0.00	0.00	0.01	0.00	11.80	2.00	0.00	0.00	0.01	0.00
11.81	2.00	0.00	0.00	0.01	0.00	11.82	2.00	0.00	0.00	0.01	0.00
11.83	2.00	0.00	0.00	0.01	0.00	11.84	2.00	0.00	0.00	0.01	0.00
11.85	2.00	0.00	0.00	0.01	0.00	11.86	2.00	0.00	0.00	0.01	0.00
11.87	2.00	0.00	0.00	0.01	0.00	11.88	2.00	0.00	0.00	0.01	0.00
11.89	2.00	0.00	0.00	0.01	0.00	11.90	2.00	0.00	0.00	0.01	0.00
11.91	2.00	0.00	0.00	0.01	0.00	11.92	2.00	0.00	0.00	0.01	0.00
11.93	2.00	0.00	0.00	0.01	0.00	11.94	2.00	0.00	0.00	0.01	0.00
11.95	2.00	0.00	0.00	0.01	0.00	11.96	2.00	0.00	0.00	0.01	0.00
11.97	2.00	0.00	0.00	0.01	0.00	11.98	2.00	0.00	0.00	0.01	0.00
11.99	2.00	0.00	0.00	0.01	0.00	12.00	2.00	0.00	0.00	0.01	0.00
12.01	2.00	0.00	0.00	0.01	0.00	12.02	2.00	0.00	0.00	0.01	0.00
12.03	2.00	0.00	0.00	0.01	0.00	12.04	2.00	0.00	0.00	0.01	0.00
12.05	2.00	0.00	0.00	0.01	0.00	12.06	2.00	0.00	0.00	0.01	0.00
12.07	2.00	0.00	0.00	0.01	0.00	12.08	2.00	0.00	0.00	0.01	0.00
12.09	2.00	0.00	0.00	0.01	0.00	12.10	2.00	0.00	0.00	0.01	0.00
12.11	2.00	0.00	0.00	0.01	0.00	12.12	2.00	0.00	0.00	0.01	0.00
12.13	2.00	0.00	0.00	0.01	0.00	12.14	2.00	0.00	0.00	0.01	0.00
12.15	2.00	0.00	0.00	0.01	0.00	12.16	2.00	0.00	0.00	0.01	0.00
12.17	2.00	0.00	0.00	0.01	0.00	12.18	2.00	0.00	0.00	0.01	0.00
12.19	2.00	0.00	0.00	0.01	0.00	12.20	2.00	0.00	0.00	0.01	0.00
12.21	2.00	0.00	0.00	0.01	0.00	12.22	2.00	0.00	0.00	0.01	0.00
12.23	2.00	0.00	0.00	0.01	0.00	12.24	2.00	0.00	0.00	0.01	0.00
12.25	2.00	0.00	0.00	0.01	0.00	12.26	2.00	0.00	0.00	0.01	0.00
12.27	2.00	0.00	0.00	0.01	0.00	12.28	2.00	0.00	0.00	0.01	0.00
12.29	2.00	0.00	0.00	0.01	0.00	12.30	2.00	0.00	0.00	0.01	0.00
12.31	2.00	0.00	0.00	0.01	0.00	12.32	2.00	0.00	0.00	0.01	0.00
12.33	2.00	0.00	0.00	0.01	0.00	12.34	2.00	0.00	0.00	0.01	0.00
12.35	2.00	0.00	0.00	0.01	0.00	12.36	2.00	0.00	0.00	0.01	0.00
12.37	2.00	0.00	0.00	0.01	0.00	12.38	2.00	0.00	0.00	0.01	0.00
12.39	2.00	0.00	0.00	0.01	0.00	12.40	2.00	0.00	0.00	0.01	0.00
12.41	2.00	0.00	0.00	0.01	0.00	12.42	2.00	0.00	0.00	0.01	0.00
12.43	2.00	0.00	0.00	0.01	0.00	12.44	2.00	0.00	0.00	0.01	0.00
12.45	2.00	0.00	0.00	0.01	0.00	12.46	2.00	0.00	0.00	0.01	0.00
12.47	2.00	0.00	0.00	0.01	0.00	12.48	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.49	2.00	0.00	0.00	0.01	0.00	12.50	2.00	0.00	0.00	0.01	0.00
12.51	2.00	0.00	0.00	0.01	0.00	12.52	2.00	0.00	0.00	0.01	0.00
12.53	2.00	0.00	0.00	0.01	0.00	12.54	2.00	0.00	0.00	0.01	0.00
12.55	2.00	0.00	0.00	0.01	0.00	12.56	2.00	0.00	0.00	0.01	0.00
12.57	2.00	0.00	0.00	0.01	0.00	12.58	2.00	0.00	0.00	0.01	0.00
12.59	2.00	0.00	0.00	0.01	0.00	12.60	2.00	0.00	0.00	0.01	0.00
12.61	2.00	0.00	0.00	0.01	0.00	12.62	2.00	0.00	0.00	0.01	0.00
12.63	2.00	0.00	0.00	0.01	0.00	12.64	2.00	0.00	0.00	0.01	0.00
12.65	2.00	0.00	0.00	0.01	0.00	12.66	2.00	0.00	0.00	0.01	0.00
12.67	2.00	0.00	0.00	0.01	0.00	12.68	2.00	0.00	0.00	0.01	0.00
12.69	2.00	0.00	0.00	0.01	0.00	12.70	2.00	0.00	0.00	0.01	0.00
12.71	2.00	0.00	0.00	0.01	0.00	12.72	2.00	0.00	0.00	0.01	0.00
12.73	2.00	0.00	0.00	0.01	0.00	12.74	2.00	0.00	0.00	0.01	0.00
12.75	2.00	0.00	0.00	0.01	0.00	12.76	2.00	0.00	0.00	0.01	0.00
12.77	2.00	0.00	0.00	0.01	0.00	12.78	2.00	0.00	0.00	0.01	0.00
12.79	2.00	0.00	0.00	0.01	0.00	12.80	2.00	0.00	0.00	0.01	0.00
12.81	2.00	0.00	0.00	0.01	0.00	12.82	2.00	0.00	0.00	0.01	0.00
12.83	2.00	0.00	0.00	0.01	0.00	12.84	2.00	0.00	0.00	0.01	0.00
12.85	2.00	0.00	0.00	0.01	0.00	12.86	2.00	0.00	0.00	0.01	0.00
12.87	2.00	0.00	0.00	0.01	0.00	12.88	2.00	0.00	0.00	0.01	0.00
12.89	2.00	0.00	0.00	0.01	0.00	12.90	2.00	0.00	0.00	0.01	0.00
12.91	2.00	0.00	0.00	0.01	0.00	12.92	2.00	0.00	0.00	0.01	0.00
12.93	2.00	0.00	0.00	0.01	0.00	12.94	2.00	0.00	0.00	0.01	0.00
12.95	2.00	0.00	0.00	0.01	0.00	12.96	2.00	0.00	0.00	0.01	0.00
12.97	2.00	0.00	0.00	0.01	0.00	12.98	2.00	0.00	0.00	0.01	0.00
12.99	2.00	0.00	0.00	0.01	0.00	13.00	2.00	0.00	0.00	0.01	0.00
13.01	2.00	0.00	0.00	0.01	0.00	13.02	2.00	0.00	0.00	0.01	0.00
13.03	2.00	0.00	0.00	0.01	0.00	13.04	2.00	0.00	0.00	0.01	0.00
13.05	2.00	0.00	0.00	0.01	0.00	13.06	2.00	0.00	0.00	0.01	0.00
13.07	2.00	0.00	0.00	0.01	0.00	13.08	2.00	0.00	0.00	0.01	0.00
13.09	2.00	0.00	0.00	0.01	0.00	13.10	2.00	0.00	0.00	0.01	0.00
13.11	2.00	0.00	0.00	0.01	0.00	13.12	2.00	0.00	0.00	0.01	0.00
13.13	2.00	0.00	0.00	0.01	0.00	13.14	2.00	0.00	0.00	0.01	0.00
13.15	2.00	0.00	0.00	0.01	0.00	13.16	2.00	0.00	0.00	0.01	0.00
13.17	2.00	0.00	0.00	0.01	0.00	13.18	2.00	0.00	0.00	0.01	0.00
13.19	2.00	0.00	0.00	0.01	0.00	13.20	2.00	0.00	0.00	0.01	0.00
13.21	2.00	0.00	0.00	0.01	0.00	13.22	2.00	0.00	0.00	0.01	0.00
13.23	2.00	0.00	0.00	0.01	0.00	13.24	2.00	0.00	0.00	0.01	0.00
13.25	2.00	0.00	0.00	0.01	0.00	13.26	2.00	0.00	0.00	0.01	0.00
13.27	2.00	0.00	0.00	0.01	0.00	13.28	2.00	0.00	0.00	0.01	0.00
13.29	2.00	0.00	0.00	0.01	0.00	13.30	2.00	0.00	0.00	0.01	0.00
13.31	2.00	0.00	0.00	0.01	0.00	13.32	2.00	0.00	0.00	0.01	0.00
13.33	2.00	0.00	0.00	0.01	0.00	13.34	2.00	0.00	0.00	0.01	0.00
13.35	2.00	0.00	0.00	0.01	0.00	13.36	2.00	0.00	0.00	0.01	0.00
13.37	2.00	0.00	0.00	0.01	0.00	13.38	2.00	0.00	0.00	0.01	0.00
13.39	2.00	0.00	0.00	0.01	0.00	13.40	2.00	0.00	0.00	0.01	0.00
13.41	2.00	0.00	0.00	0.01	0.00	13.42	2.00	0.00	0.00	0.01	0.00
13.43	2.00	0.00	0.00	0.01	0.00	13.44	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.45	2.00	0.00	0.00	0.01	0.00	13.46	2.00	0.00	0.00	0.01	0.00
13.47	2.00	0.00	0.00	0.01	0.00	13.48	2.00	0.00	0.00	0.01	0.00
13.49	2.00	0.00	0.00	0.01	0.00	13.50	2.00	0.00	0.00	0.01	0.00
13.51	2.00	0.00	0.00	0.01	0.00	13.52	2.00	0.00	0.00	0.01	0.00
13.53	2.00	0.00	0.00	0.01	0.00	13.54	2.00	0.00	0.00	0.01	0.00
13.55	2.00	0.00	0.00	0.01	0.00	13.56	2.00	0.00	0.00	0.01	0.00
13.57	2.00	0.00	0.00	0.01	0.00	13.58	2.00	0.00	0.00	0.01	0.00
13.59	2.00	0.00	0.00	0.01	0.00	13.60	2.00	0.00	0.00	0.01	0.00
13.61	2.00	0.00	0.00	0.01	0.00	13.62	2.00	0.00	0.00	0.01	0.00
13.63	2.00	0.00	0.00	0.01	0.00	13.64	2.00	0.00	0.00	0.01	0.00
13.65	2.00	0.00	0.00	0.01	0.00	13.66	2.00	0.00	0.00	0.01	0.00
13.67	2.00	0.00	0.00	0.01	0.00	13.68	2.00	0.00	0.00	0.01	0.00
13.69	2.00	0.00	0.00	0.01	0.00	13.70	2.00	0.00	0.00	0.01	0.00
13.71	2.00	0.00	0.00	0.01	0.00	13.72	2.00	0.00	0.00	0.01	0.00
13.73	2.00	0.00	0.00	0.01	0.00	13.74	2.00	0.00	0.00	0.01	0.00
13.75	2.00	0.00	0.00	0.01	0.00	13.76	2.00	0.00	0.00	0.01	0.00
13.77	2.00	0.00	0.00	0.01	0.00	13.78	2.00	0.00	0.00	0.01	0.00
13.79	2.00	0.00	0.00	0.01	0.00	13.80	2.00	0.00	0.00	0.01	0.00
13.81	2.00	0.00	0.00	0.01	0.00	13.82	2.00	0.00	0.00	0.01	0.00
13.83	2.00	0.00	0.00	0.01	0.00	13.84	2.00	0.00	0.00	0.01	0.00
13.85	2.00	0.00	0.00	0.01	0.00	13.86	2.00	0.00	0.00	0.01	0.00
13.87	2.00	0.00	0.00	0.01	0.00	13.88	2.00	0.00	0.00	0.01	0.00
13.89	2.00	0.00	0.00	0.01	0.00	13.90	2.00	0.00	0.00	0.01	0.00
13.91	2.00	0.00	0.00	0.01	0.00	13.92	2.00	0.00	0.00	0.01	0.00
13.93	2.00	0.00	0.00	0.01	0.00	13.94	2.00	0.00	0.00	0.01	0.00
13.95	2.00	0.00	0.00	0.01	0.00	13.96	2.00	0.00	0.00	0.01	0.00
13.97	2.00	0.00	0.00	0.01	0.00	13.98	2.00	0.00	0.00	0.01	0.00
13.99	2.00	0.00	0.00	0.01	0.00	14.00	2.00	0.00	0.00	0.01	0.00
14.01	2.00	0.00	0.00	0.01	0.00	14.02	2.00	0.00	0.00	0.01	0.00
14.03	2.00	0.00	0.00	0.01	0.00	14.04	2.00	0.00	0.00	0.01	0.00
14.05	2.00	0.00	0.00	0.01	0.00	14.06	2.00	0.00	0.00	0.01	0.00
14.07	2.00	0.00	0.00	0.01	0.00	14.08	2.00	0.00	0.00	0.01	0.00
14.09	2.00	0.00	0.00	0.01	0.00	14.10	2.00	0.00	0.00	0.01	0.00
14.11	2.00	0.00	0.00	0.01	0.00	14.12	2.00	0.00	0.00	0.01	0.00
14.13	2.00	0.00	0.00	0.01	0.00	14.14	2.00	0.00	0.00	0.01	0.00
14.15	2.00	0.00	0.00	0.01	0.00	14.16	2.00	0.00	0.00	0.01	0.00
14.17	2.00	0.00	0.00	0.01	0.00	14.18	2.00	0.00	0.00	0.01	0.00
14.19	2.00	0.00	0.00	0.01	0.00	14.20	2.00	0.00	0.00	0.01	0.00
14.21	2.00	0.00	0.00	0.01	0.00	14.22	2.00	0.00	0.00	0.01	0.00
14.23	2.00	0.00	0.00	0.01	0.00	14.24	2.00	0.00	0.00	0.01	0.00
14.25	2.00	0.00	0.00	0.01	0.00	14.26	2.00	0.00	0.00	0.01	0.00
14.27	2.00	0.00	0.00	0.01	0.00	14.28	2.00	0.00	0.00	0.01	0.00
14.29	2.00	0.00	0.00	0.01	0.00	14.30	2.00	0.00	0.00	0.01	0.00
14.31	2.00	0.00	0.00	0.01	0.00	14.32	2.00	0.00	0.00	0.01	0.00
14.33	2.00	0.00	0.00	0.01	0.00	14.34	2.00	0.00	0.00	0.01	0.00
14.35	2.00	0.00	0.00	0.01	0.00	14.36	2.00	0.00	0.00	0.01	0.00
14.37	2.00	0.00	0.00	0.01	0.00	14.38	2.00	0.00	0.00	0.01	0.00
14.39	2.00	0.00	0.00	0.01	0.00	14.40	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.41	2.00	0.00	0.00	0.01	0.00	14.42	2.00	0.00	0.00	0.01	0.00
14.43	2.00	0.00	0.00	0.01	0.00	14.44	2.00	0.00	0.00	0.01	0.00
14.45	2.00	0.00	0.00	0.01	0.00	14.46	2.00	0.00	0.00	0.01	0.00
14.47	2.00	0.00	0.00	0.01	0.00	14.48	2.00	0.00	0.00	0.01	0.00
14.49	2.00	0.00	0.00	0.01	0.00	14.50	2.00	0.00	0.00	0.01	0.00
14.51	2.00	0.00	0.00	0.01	0.00	14.52	2.00	0.00	0.00	0.01	0.00
14.53	2.00	0.00	0.00	0.01	0.00	14.54	2.00	0.00	0.00	0.01	0.00
14.55	2.00	0.00	0.00	0.01	0.00	14.56	2.00	0.00	0.00	0.01	0.00
14.57	2.00	0.00	0.00	0.01	0.00	14.58	2.00	0.00	0.00	0.01	0.00
14.59	2.00	0.00	0.00	0.01	0.00	14.60	2.00	0.00	0.00	0.01	0.00
14.61	2.00	0.00	0.00	0.01	0.00	14.62	2.00	0.00	0.00	0.01	0.00
14.63	2.00	0.00	0.00	0.01	0.00	14.64	2.00	0.00	0.00	0.01	0.00
14.65	2.00	0.00	0.00	0.01	0.00	14.66	2.00	0.00	0.00	0.01	0.00
14.67	2.00	0.00	0.00	0.01	0.00	14.68	2.00	0.00	0.00	0.01	0.00
14.69	2.00	0.00	0.00	0.01	0.00	14.70	2.00	0.00	0.00	0.01	0.00
14.71	2.00	0.00	0.00	0.01	0.00	14.72	2.00	0.00	0.00	0.01	0.00
14.73	2.00	0.00	0.00	0.01	0.00	14.74	2.00	0.00	0.00	0.01	0.00
14.75	2.00	0.00	0.00	0.01	0.00	14.76	2.00	0.00	0.00	0.01	0.00
14.77	2.00	0.00	0.00	0.01	0.00	14.78	2.00	0.00	0.00	0.01	0.00
14.79	2.00	0.00	0.00	0.01	0.00	14.80	2.00	0.00	0.00	0.01	0.00
14.81	2.00	0.00	0.00	0.01	0.00	14.82	2.00	0.00	0.00	0.01	0.00
14.83	2.00	0.00	0.00	0.01	0.00	14.84	2.00	0.00	0.00	0.01	0.00
14.85	2.00	0.00	0.00	0.01	0.00	14.86	2.00	0.00	0.00	0.01	0.00
14.87	2.00	0.00	0.00	0.01	0.00	14.88	2.00	0.00	0.00	0.01	0.00
14.89	2.00	0.00	0.00	0.01	0.00	14.90	2.00	0.00	0.00	0.01	0.00
14.91	2.00	0.00	0.00	0.01	0.00	14.92	2.00	0.00	0.00	0.01	0.00
14.93	2.00	0.00	0.00	0.01	0.00	14.94	2.00	0.00	0.00	0.01	0.00
14.95	2.00	0.00	0.00	0.01	0.00	14.96	2.00	0.00	0.00	0.01	0.00
14.97	2.00	0.00	0.00	0.01	0.00	14.98	2.00	0.00	0.00	0.01	0.00
14.99	2.00	0.00	0.00	0.01	0.00	15.00	2.00	0.00	0.00	0.01	0.00
15.01	2.00	0.00	0.00	0.01	0.00	15.02	2.00	0.00	0.00	0.01	0.00
15.03	2.00	0.00	0.00	0.01	0.00	15.04	2.00	0.00	0.00	0.01	0.00
15.05	2.00	0.00	0.00	0.01	0.00	15.06	2.00	0.00	0.00	0.01	0.00
15.07	2.00	0.00	0.00	0.01	0.00	15.08	2.00	0.00	0.00	0.01	0.00
15.09	2.00	0.00	0.00	0.01	0.00	15.10	2.00	0.00	0.00	0.01	0.00
15.11	2.00	0.00	0.00	0.01	0.00	15.12	2.00	0.00	0.00	0.01	0.00
15.13	2.00	0.00	0.00	0.01	0.00	15.14	2.00	0.00	0.00	0.01	0.00
15.15	2.00	0.00	0.00	0.01	0.00	15.16	2.00	0.00	0.00	0.01	0.00
15.17	2.00	0.00	0.00	0.01	0.00	15.18	2.00	0.00	0.00	0.01	0.00
15.19	2.00	0.00	0.00	0.01	0.00	15.20	2.00	0.00	0.00	0.01	0.00
15.21	2.00	0.00	0.00	0.01	0.00	15.22	2.00	0.00	0.00	0.01	0.00
15.23	2.00	0.00	0.00	0.01	0.00	15.24	2.00	0.00	0.00	0.01	0.00
15.25	2.00	0.00	0.00	0.01	0.00	15.26	2.00	0.00	0.00	0.01	0.00
15.27	2.00	0.00	0.00	0.01	0.00	15.28	2.00	0.00	0.00	0.01	0.00
15.29	2.00	0.00	0.00	0.01	0.00	15.30	2.00	0.00	0.00	0.01	0.00
15.31	2.00	0.00	0.00	0.01	0.00	15.32	2.00	0.00	0.00	0.01	0.00
15.33	2.00	0.00	0.00	0.01	0.00	15.34	2.00	0.00	0.00	0.01	0.00
15.35	2.00	0.00	0.00	0.01	0.00	15.36	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.37	2.00	0.00	0.00	0.01	0.00	15.38	2.00	0.00	0.00	0.01	0.00
15.39	2.00	0.00	0.00	0.01	0.00	15.40	2.00	0.00	0.00	0.01	0.00
15.41	2.00	0.00	0.00	0.01	0.00	15.42	2.00	0.00	0.00	0.01	0.00
15.43	2.00	0.00	0.00	0.01	0.00	15.44	2.00	0.00	0.00	0.01	0.00
15.45	2.00	0.00	0.00	0.01	0.00	15.46	2.00	0.00	0.00	0.01	0.00
15.47	2.00	0.00	0.00	0.01	0.00	15.48	2.00	0.00	0.00	0.01	0.00
15.49	2.00	0.00	0.00	0.01	0.00	15.50	2.00	0.00	0.00	0.01	0.00
15.51	2.00	0.00	0.00	0.01	0.00	15.52	2.00	0.00	0.00	0.01	0.00
15.53	2.00	0.00	0.00	0.01	0.00	15.54	2.00	0.00	0.00	0.01	0.00
15.55	2.00	0.00	0.00	0.01	0.00	15.56	2.00	0.00	0.00	0.01	0.00
15.57	2.00	0.00	0.00	0.01	0.00	15.58	2.00	0.00	0.00	0.01	0.00
15.59	2.00	0.00	0.00	0.01	0.00	15.60	2.00	0.00	0.00	0.01	0.00
15.61	2.00	0.00	0.00	0.01	0.00	15.62	2.00	0.00	0.00	0.01	0.00
15.63	2.00	0.00	0.00	0.01	0.00	15.64	2.00	0.00	0.00	0.01	0.00
15.65	2.00	0.00	0.00	0.01	0.00	15.66	2.00	0.00	0.00	0.01	0.00
15.67	2.00	0.00	0.00	0.01	0.00	15.68	2.00	0.00	0.00	0.01	0.00
15.69	2.00	0.00	0.00	0.01	0.00	15.70	2.00	0.00	0.00	0.01	0.00
15.71	2.00	0.00	0.00	0.01	0.00	15.72	2.00	0.00	0.00	0.01	0.00
15.73	2.00	0.00	0.00	0.01	0.00	15.74	2.00	0.00	0.00	0.01	0.00
15.75	2.00	0.00	0.00	0.01	0.00	15.76	2.00	0.00	0.00	0.01	0.00
15.77	2.00	0.00	0.00	0.01	0.00	15.78	2.00	0.00	0.00	0.01	0.00
15.79	2.00	0.00	0.00	0.01	0.00	15.80	2.00	0.00	0.00	0.01	0.00
15.81	2.00	0.00	0.00	0.01	0.00	15.82	2.00	0.00	0.00	0.01	0.00
15.83	2.00	0.00	0.00	0.01	0.00	15.84	2.00	0.00	0.00	0.01	0.00
15.85	2.00	0.00	0.00	0.01	0.00	15.86	2.00	0.00	0.00	0.01	0.00
15.87	2.00	0.00	0.00	0.01	0.00	15.88	2.00	0.00	0.00	0.01	0.00
15.89	2.00	0.00	0.00	0.01	0.00	15.90	2.00	0.00	0.00	0.01	0.00
15.91	2.00	0.00	0.00	0.01	0.00	15.92	2.00	0.00	0.00	0.01	0.00
15.93	2.00	0.00	0.00	0.01	0.00	15.94	2.00	0.00	0.00	0.01	0.00
15.95	2.00	0.00	0.00	0.01	0.00	15.96	2.00	0.00	0.00	0.01	0.00
15.97	2.00	0.00	0.00	0.01	0.00	15.98	2.00	0.00	0.00	0.01	0.00
15.99	2.00	0.00	0.00	0.01	0.00	16.00	2.00	0.00	0.00	0.01	0.00
16.01	2.00	0.00	0.00	0.01	0.00	16.02	2.00	0.00	0.00	0.01	0.00
16.03	2.00	0.00	0.00	0.01	0.00	16.04	2.00	0.00	0.00	0.01	0.00
16.05	2.00	0.00	0.00	0.01	0.00	16.06	2.00	0.00	0.00	0.01	0.00
16.07	2.00	0.00	0.00	0.01	0.00	16.08	2.00	0.00	0.00	0.01	0.00
16.09	2.00	0.00	0.00	0.01	0.00	16.10	2.00	0.00	0.00	0.01	0.00
16.11	2.00	0.00	0.00	0.01	0.00	16.12	2.00	0.00	0.00	0.01	0.00
16.13	2.00	0.00	0.00	0.01	0.00	16.14	2.00	0.00	0.00	0.01	0.00
16.15	2.00	0.00	0.00	0.01	0.00	16.16	2.00	0.00	0.00	0.01	0.00
16.17	2.00	0.00	0.00	0.01	0.00	16.18	2.00	0.00	0.00	0.01	0.00
16.19	2.00	0.00	0.00	0.01	0.00	16.20	2.00	0.00	0.00	0.01	0.00
16.21	2.00	0.00	0.00	0.01	0.00	16.22	2.00	0.00	0.00	0.01	0.00
16.23	2.00	0.00	0.00	0.01	0.00	16.24	2.00	0.00	0.00	0.01	0.00
16.25	2.00	0.00	0.00	0.01	0.00	16.26	2.00	0.00	0.00	0.01	0.00
16.27	2.00	0.00	0.00	0.01	0.00	16.28	2.00	0.00	0.00	0.01	0.00
16.29	2.00	0.00	0.00	0.01	0.00	16.30	2.00	0.00	0.00	0.01	0.00
16.31	2.00	0.00	0.00	0.01	0.00	16.32	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.33	2.00	0.00	0.00	0.01	0.00	16.34	2.00	0.00	0.00	0.01	0.00
16.35	2.00	0.00	0.00	0.01	0.00	16.36	2.00	0.00	0.00	0.01	0.00
16.37	2.00	0.00	0.00	0.01	0.00	16.38	2.00	0.00	0.00	0.01	0.00
16.39	2.00	0.00	0.00	0.01	0.00	16.40	2.00	0.00	0.00	0.01	0.00
16.41	2.00	0.00	0.00	0.01	0.00	16.42	2.00	0.00	0.00	0.01	0.00
16.43	2.00	0.00	0.00	0.01	0.00	16.44	2.00	0.00	0.00	0.01	0.00
16.45	2.00	0.00	0.00	0.01	0.00	16.46	2.00	0.00	0.00	0.01	0.00
16.47	2.00	0.00	0.00	0.01	0.00	16.48	2.00	0.00	0.00	0.01	0.00
16.49	2.00	0.00	0.00	0.01	0.00	16.50	2.00	0.00	0.00	0.01	0.00
16.51	2.00	0.00	0.00	0.01	0.00	16.52	2.00	0.00	0.00	0.01	0.00
16.53	2.00	0.00	0.00	0.01	0.00	16.54	2.00	0.00	0.00	0.01	0.00
16.55	2.00	0.00	0.00	0.01	0.00	16.56	2.00	0.00	0.00	0.01	0.00
16.57	2.00	0.00	0.00	0.01	0.00	16.58	2.00	0.00	0.00	0.01	0.00
16.59	2.00	0.00	0.00	0.01	0.00	16.60	2.00	0.00	0.00	0.01	0.00
16.61	2.00	0.00	0.00	0.01	0.00	16.62	2.00	0.00	0.00	0.01	0.00
16.63	2.00	0.00	0.00	0.01	0.00	16.64	2.00	0.00	0.00	0.01	0.00
16.65	2.00	0.00	0.00	0.01	0.00	16.66	2.00	0.00	0.00	0.01	0.00
16.67	2.00	0.00	0.00	0.01	0.00	16.68	2.00	0.00	0.00	0.01	0.00
16.69	2.00	0.00	0.00	0.01	0.00	16.70	2.00	0.00	0.00	0.01	0.00
16.71	2.00	0.00	0.00	0.01	0.00	16.72	2.00	0.00	0.00	0.01	0.00
16.73	2.00	0.00	0.00	0.01	0.00	16.74	2.00	0.00	0.00	0.01	0.00
16.75	2.00	0.00	0.00	0.01	0.00	16.76	2.00	0.00	0.00	0.01	0.00
16.77	2.00	0.00	0.00	0.01	0.00	16.78	2.00	0.00	0.00	0.01	0.00
16.79	2.00	0.00	0.00	0.01	0.00	16.80	2.00	0.00	0.00	0.01	0.00
16.81	2.00	0.00	0.00	0.01	0.00	16.82	2.00	0.00	0.00	0.01	0.00
16.83	2.00	0.00	0.00	0.01	0.00	16.84	2.00	0.00	0.00	0.01	0.00
16.85	2.00	0.00	0.00	0.01	0.00	16.86	2.00	0.00	0.00	0.01	0.00
16.87	2.00	0.00	0.00	0.01	0.00	16.88	2.00	0.00	0.00	0.01	0.00
16.89	2.00	0.00	0.00	0.01	0.00	16.90	2.00	0.00	0.00	0.01	0.00
16.91	2.00	0.00	0.00	0.01	0.00	16.92	2.00	0.00	0.00	0.01	0.00
16.93	2.00	0.00	0.00	0.01	0.00	16.94	2.00	0.00	0.00	0.01	0.00
16.95	2.00	0.00	0.00	0.01	0.00	16.96	2.00	0.00	0.00	0.01	0.00
16.97	2.00	0.00	0.00	0.01	0.00	16.98	2.00	0.00	0.00	0.01	0.00
16.99	2.00	0.00	0.00	0.01	0.00	17.00	2.00	0.00	0.00	0.01	0.00
17.01	2.00	0.00	0.00	0.01	0.00	17.02	2.00	0.00	0.00	0.01	0.00
17.03	2.00	0.00	0.00	0.01	0.00	17.04	2.00	0.00	0.00	0.01	0.00
17.05	2.00	0.00	0.00	0.01	0.00	17.06	2.00	0.00	0.00	0.01	0.00
17.07	2.00	0.00	0.00	0.01	0.00	17.08	2.00	0.00	0.00	0.01	0.00
17.09	2.00	0.00	0.00	0.01	0.00	17.10	2.00	0.00	0.00	0.01	0.00
17.11	2.00	0.00	0.00	0.01	0.00	17.12	2.00	0.00	0.00	0.01	0.00
17.13	2.00	0.00	0.00	0.01	0.00	17.14	2.00	0.00	0.00	0.01	0.00
17.15	2.00	0.00	0.00	0.01	0.00	17.16	2.00	0.00	0.00	0.01	0.00
17.17	2.00	0.00	0.00	0.01	0.00	17.18	2.00	0.00	0.00	0.01	0.00
17.19	2.00	0.00	0.00	0.01	0.00	17.20	2.00	0.00	0.00	0.01	0.00
17.21	2.00	0.00	0.00	0.01	0.00	17.22	2.00	0.00	0.00	0.01	0.00
17.23	2.00	0.00	0.00	0.01	0.00	17.24	2.00	0.00	0.00	0.01	0.00
17.25	2.00	0.00	0.00	0.01	0.00	17.26	2.00	0.00	0.00	0.01	0.00
17.27	2.00	0.00	0.00	0.01	0.00	17.28	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
17.29	2.00	0.00	0.00	0.01	0.00	17.30	2.00	0.00	0.00	0.01	0.00
17.31	2.00	0.00	0.00	0.01	0.00	17.32	2.00	0.00	0.00	0.01	0.00
17.33	2.00	0.00	0.00	0.01	0.00	17.34	2.00	0.00	0.00	0.01	0.00
17.35	2.00	0.00	0.00	0.01	0.00	17.36	2.00	0.00	0.00	0.01	0.00
17.37	2.00	0.00	0.00	0.01	0.00	17.38	2.00	0.00	0.00	0.01	0.00
17.39	2.00	0.00	0.00	0.01	0.00	17.40	2.00	0.00	0.00	0.01	0.00
17.41	2.00	0.00	0.00	0.01	0.00	17.42	2.00	0.00	0.00	0.01	0.00
17.43	2.00	0.00	0.00	0.01	0.00	17.44	2.00	0.00	0.00	0.01	0.00
17.45	2.00	0.00	0.00	0.01	0.00	17.46	2.00	0.00	0.00	0.01	0.00
17.47	2.00	0.00	0.00	0.01	0.00	17.48	2.00	0.00	0.00	0.01	0.00
17.49	2.00	0.00	0.00	0.01	0.00	17.50	2.00	0.00	0.00	0.01	0.00
17.51	2.00	0.00	0.00	0.01	0.00	17.52	2.00	0.00	0.00	0.01	0.00
17.53	2.00	0.00	0.00	0.01	0.00	17.54	2.00	0.00	0.00	0.01	0.00
17.55	2.00	0.00	0.00	0.01	0.00	17.56	2.00	0.00	0.00	0.01	0.00
17.57	2.00	0.00	0.00	0.01	0.00	17.58	2.00	0.00	0.00	0.01	0.00
17.59	2.00	0.00	0.00	0.01	0.00	17.60	2.00	0.00	0.00	0.01	0.00
17.61	2.00	0.00	0.00	0.01	0.00	17.62	2.00	0.00	0.00	0.01	0.00
17.63	2.00	0.00	0.00	0.01	0.00	17.64	2.00	0.00	0.00	0.01	0.00
17.65	2.00	0.00	0.00	0.01	0.00	17.66	2.00	0.00	0.00	0.01	0.00
17.67	2.00	0.00	0.00	0.01	0.00	17.68	2.00	0.00	0.00	0.01	0.00
17.69	2.00	0.00	0.00	0.01	0.00	17.70	2.00	0.00	0.00	0.01	0.00
17.71	2.00	0.00	0.00	0.01	0.00	17.72	2.00	0.00	0.00	0.01	0.00
17.73	2.00	0.00	0.00	0.01	0.00	17.74	2.00	0.00	0.00	0.01	0.00
17.75	2.00	0.00	0.00	0.01	0.00	17.76	2.00	0.00	0.00	0.01	0.00
17.77	2.00	0.00	0.00	0.01	0.00	17.78	2.00	0.00	0.00	0.01	0.00
17.79	2.00	0.00	0.00	0.01	0.00	17.80	2.00	0.00	0.00	0.01	0.00
17.81	2.00	0.00	0.00	0.01	0.00	17.82	2.00	0.00	0.00	0.01	0.00
17.83	2.00	0.00	0.00	0.01	0.00	17.84	2.00	0.00	0.00	0.01	0.00
17.85	2.00	0.00	0.00	0.01	0.00	17.86	2.00	0.00	0.00	0.01	0.00
17.87	2.00	0.00	0.00	0.01	0.00	17.88	2.00	0.00	0.00	0.01	0.00
17.89	2.00	0.00	0.00	0.01	0.00	17.90	2.00	0.00	0.00	0.01	0.00
17.91	2.00	0.00	0.00	0.01	0.00	17.92	2.00	0.00	0.00	0.01	0.00
17.93	2.00	0.00	0.00	0.01	0.00	17.94	2.00	0.00	0.00	0.01	0.00
17.95	2.00	0.00	0.00	0.01	0.00	17.96	2.00	0.00	0.00	0.01	0.00
17.97	2.00	0.00	0.00	0.01	0.00	17.98	2.00	0.00	0.00	0.01	0.00
17.99	2.00	0.00	0.00	0.01	0.00	18.00	2.00	0.00	0.00	0.01	0.00
18.01	2.00	0.00	0.00	0.01	0.00	18.02	2.00	0.00	0.00	0.01	0.00
18.03	2.00	0.00	0.00	0.01	0.00	18.04	2.00	0.00	0.00	0.01	0.00
18.05	2.00	0.00	0.00	0.01	0.00	18.06	2.00	0.00	0.00	0.01	0.00
18.07	2.00	0.00	0.00	0.01	0.00	18.08	2.00	0.00	0.00	0.01	0.00
18.09	2.00	0.00	0.00	0.01	0.00	18.10	2.00	0.00	0.00	0.01	0.00
18.11	2.00	0.00	0.00	0.01	0.00	18.12	2.00	0.00	0.00	0.01	0.00
18.13	2.00	0.00	0.00	0.01	0.00	18.14	2.00	0.00	0.00	0.01	0.00
18.15	2.00	0.00	0.00	0.01	0.00	18.16	2.00	0.00	0.00	0.01	0.00
18.17	2.00	0.00	0.00	0.01	0.00	18.18	2.00	0.00	0.00	0.01	0.00
18.19	2.00	0.00	0.00	0.01	0.00	18.20	2.00	0.00	0.00	0.01	0.00
18.21	2.00	0.00	0.00	0.01	0.00	18.22	2.00	0.00	0.00	0.01	0.00
18.23	2.00	0.00	0.00	0.01	0.00	18.24	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
18.25	2.00	0.00	0.00	0.01	0.00	18.26	2.00	0.00	0.00	0.01	0.00
18.27	2.00	0.00	0.00	0.01	0.00	18.28	2.00	0.00	0.00	0.01	0.00
18.29	2.00	0.00	0.00	0.01	0.00	18.30	2.00	0.00	0.00	0.01	0.00
18.31	2.00	0.00	0.00	0.01	0.00	18.32	2.00	0.00	0.00	0.01	0.00
18.33	2.00	0.00	0.00	0.01	0.00	18.34	2.00	0.00	0.00	0.01	0.00
18.35	2.00	0.00	0.00	0.01	0.00	18.36	2.00	0.00	0.00	0.01	0.00
18.37	2.00	0.00	0.00	0.01	0.00	18.38	2.00	0.00	0.00	0.01	0.00
18.39	2.00	0.00	0.00	0.01	0.00	18.40	2.00	0.00	0.00	0.01	0.00
18.41	2.00	0.00	0.00	0.01	0.00	18.42	2.00	0.00	0.00	0.01	0.00
18.43	2.00	0.00	0.00	0.01	0.00	18.44	2.00	0.00	0.00	0.01	0.00
18.45	2.00	0.00	0.00	0.01	0.00	18.46	2.00	0.00	0.00	0.01	0.00
18.47	2.00	0.00	0.00	0.01	0.00	18.48	2.00	0.00	0.00	0.01	0.00
18.49	2.00	0.00	0.00	0.01	0.00	18.50	2.00	0.00	0.00	0.01	0.00
18.51	2.00	0.00	0.00	0.01	0.00	18.52	2.00	0.00	0.00	0.01	0.00
18.53	2.00	0.00	0.00	0.01	0.00	18.54	2.00	0.00	0.00	0.01	0.00
18.55	2.00	0.00	0.00	0.01	0.00	18.56	2.00	0.00	0.00	0.01	0.00
18.57	2.00	0.00	0.00	0.01	0.00	18.58	2.00	0.00	0.00	0.01	0.00
18.59	2.00	0.00	0.00	0.01	0.00	18.60	2.00	0.00	0.00	0.01	0.00
18.61	2.00	0.00	0.00	0.01	0.00	18.62	2.00	0.00	0.00	0.01	0.00
18.63	2.00	0.00	0.00	0.01	0.00	18.64	2.00	0.00	0.00	0.01	0.00
18.65	2.00	0.00	0.00	0.01	0.00	18.66	2.00	0.00	0.00	0.01	0.00
18.67	2.00	0.00	0.00	0.01	0.00	18.68	2.00	0.00	0.00	0.01	0.00
18.69	2.00	0.00	0.00	0.01	0.00	18.70	2.00	0.00	0.00	0.01	0.00
18.71	2.00	0.00	0.00	0.01	0.00	18.72	2.00	0.00	0.00	0.01	0.00
18.73	2.00	0.00	0.00	0.01	0.00	18.74	2.00	0.00	0.00	0.01	0.00
18.75	2.00	0.00	0.00	0.01	0.00	18.76	2.00	0.00	0.00	0.01	0.00
18.77	2.00	0.00	0.00	0.01	0.00	18.78	2.00	0.00	0.00	0.01	0.00
18.79	2.00	0.00	0.00	0.01	0.00	18.80	2.00	0.00	0.00	0.01	0.00
18.81	2.00	0.00	0.00	0.01	0.00	18.82	2.00	0.00	0.00	0.01	0.00
18.83	2.00	0.00	0.00	0.01	0.00	18.84	2.00	0.00	0.00	0.01	0.00
18.85	2.00	0.00	0.00	0.01	0.00	18.86	2.00	0.00	0.00	0.01	0.00
18.87	2.00	0.00	0.00	0.01	0.00	18.88	2.00	0.00	0.00	0.01	0.00
18.89	2.00	0.00	0.00	0.01	0.00	18.90	2.00	0.00	0.00	0.01	0.00
18.91	2.00	0.00	0.00	0.01	0.00	18.92	2.00	0.00	0.00	0.01	0.00
18.93	2.00	0.00	0.00	0.01	0.00	18.94	2.00	0.00	0.00	0.01	0.00
18.95	2.00	0.00	0.00	0.01	0.00	18.96	2.00	0.00	0.00	0.01	0.00
18.97	2.00	0.00	0.00	0.01	0.00	18.98	2.00	0.00	0.00	0.01	0.00
18.99	2.00	0.00	0.00	0.01	0.00	19.00	2.00	0.00	0.00	0.01	0.00
19.01	0.70	0.30	0.90	0.01	0.00	19.02	0.72	0.28	1.03	0.01	0.00
19.03	0.72	0.28	1.01	0.01	0.00	19.04	0.74	0.26	1.13	0.01	0.00
19.05	0.73	0.27	1.09	0.01	0.00	19.06	0.74	0.26	1.11	0.01	0.00
19.07	0.74	0.26	1.10	0.01	0.00	19.08	0.73	0.27	1.06	0.01	0.00
19.09	0.73	0.27	1.07	0.01	0.00	19.10	0.72	0.28	1.03	0.01	0.00
19.11	0.72	0.28	1.04	0.01	0.00	19.12	0.72	0.28	1.03	0.01	0.00
19.13	0.72	0.28	1.01	0.01	0.00	19.14	0.74	0.26	1.11	0.01	0.00
19.15	0.73	0.27	1.07	0.01	0.00	19.16	0.76	0.24	1.25	0.01	0.00
19.17	0.87	0.13	3.54	0.01	0.00	19.18	0.84	0.16	2.53	0.01	0.00
19.19	1.01	0.00	0.00	0.01	0.00	19.20	0.98	0.02	258280.72	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.21	0.98	0.02	274636.86	0.01	0.00	19.22	0.92	0.08	10.69	0.01	0.00
19.23	1.12	0.00	0.00	0.01	0.00	19.24	0.92	0.08	9.55	0.01	0.00
19.25	0.98	0.02	20622.80	0.01	0.00	19.26	0.87	0.13	3.27	0.01	0.00
19.27	0.86	0.14	2.92	0.01	0.00	19.28	0.83	0.17	2.25	0.01	0.00
19.29	0.83	0.17	2.17	0.01	0.00	19.30	0.83	0.17	2.13	0.01	0.00
19.31	0.85	0.15	2.56	0.01	0.00	19.32	0.82	0.18	1.93	0.01	0.00
19.33	0.78	0.22	1.40	0.01	0.00	19.34	0.76	0.24	1.28	0.01	0.00
19.35	0.71	0.29	0.97	0.01	0.00	19.36	0.70	0.30	0.93	0.01	0.00
19.37	0.68	0.32	0.83	0.01	0.00	19.38	0.69	0.31	0.87	0.01	0.00
19.39	0.67	0.33	0.82	0.01	0.00	19.40	0.71	0.29	0.98	0.01	0.00
19.41	0.70	0.30	0.93	0.01	0.00	19.42	0.76	0.24	1.23	0.01	0.00
19.43	0.73	0.27	1.09	0.01	0.00	19.44	0.77	0.23	1.35	0.01	0.00
19.45	0.77	0.23	1.31	0.01	0.00	19.46	0.75	0.25	1.16	0.01	0.00
19.47	0.76	0.24	1.28	0.01	0.00	19.48	0.74	0.26	1.14	0.01	0.00
19.49	0.75	0.25	1.16	0.01	0.00	19.50	0.76	0.24	1.27	0.01	0.00
19.51	0.76	0.24	1.23	0.01	0.00	19.52	0.80	0.20	1.62	0.01	0.00
19.53	0.79	0.21	1.49	0.01	0.00	19.54	0.83	0.17	2.14	0.01	0.00
19.55	0.82	0.18	2.00	0.01	0.00	19.56	0.84	0.16	2.41	0.01	0.00
19.57	0.89	0.11	4.96	0.01	0.00	19.58	0.85	0.15	2.80	0.01	0.00
19.59	0.92	0.08	9.84	0.01	0.00	19.60	0.86	0.14	3.24	0.01	0.00
19.61	0.89	0.11	5.33	0.01	0.00	19.62	0.86	0.14	3.19	0.01	0.00
19.63	0.87	0.13	3.57	0.01	0.00	19.64	0.86	0.14	3.12	0.01	0.00
19.65	0.85	0.15	2.60	0.01	0.00	19.66	0.82	0.18	2.02	0.01	0.00
19.67	0.79	0.21	1.57	0.01	0.00	19.68	0.75	0.25	1.18	0.01	0.00
19.69	0.70	0.30	0.93	0.01	0.00	19.70	0.67	0.33	0.79	0.01	0.00
19.71	0.63	0.37	0.69	0.01	0.00	19.72	0.63	0.37	0.69	0.01	0.00
19.73	0.61	0.39	0.65	0.01	0.00	19.74	0.63	0.37	0.69	0.01	0.00
19.75	0.68	0.32	0.84	0.01	0.00	19.76	0.68	0.32	0.83	0.01	0.00
19.77	0.72	0.28	0.99	0.01	0.00	19.78	0.72	0.28	1.00	0.01	0.00
19.79	0.73	0.27	1.07	0.01	0.00	19.80	0.74	0.26	1.14	0.01	0.00
19.81	0.74	0.26	1.11	0.01	0.00	19.82	0.73	0.27	1.07	0.01	0.00
19.83	0.73	0.27	1.05	0.01	0.00	19.84	0.72	0.28	1.01	0.01	0.00
19.85	0.72	0.28	1.01	0.01	0.00	19.86	0.71	0.29	0.94	0.01	0.00
19.87	0.71	0.29	0.95	0.01	0.00	19.88	0.70	0.30	0.92	0.01	0.00
19.89	0.70	0.30	0.91	0.01	0.00	19.90	0.73	0.27	1.09	0.01	0.00
19.91	0.72	0.28	1.03	0.01	0.00	19.92	0.78	0.22	1.40	0.01	0.00
19.93	0.77	0.23	1.31	0.01	0.00	19.94	0.82	0.18	1.89	0.01	0.00
19.95	0.79	0.21	1.54	0.01	0.00	19.96	0.82	0.18	1.91	0.01	0.00
19.97	0.82	0.18	1.92	0.01	0.00	19.98	0.80	0.20	1.65	0.01	0.00
19.99	0.83	0.17	2.20	0.01	0.00	20.00	0.80	0.20	1.68	0.01	0.00

Overall liquefaction potential: 0.48

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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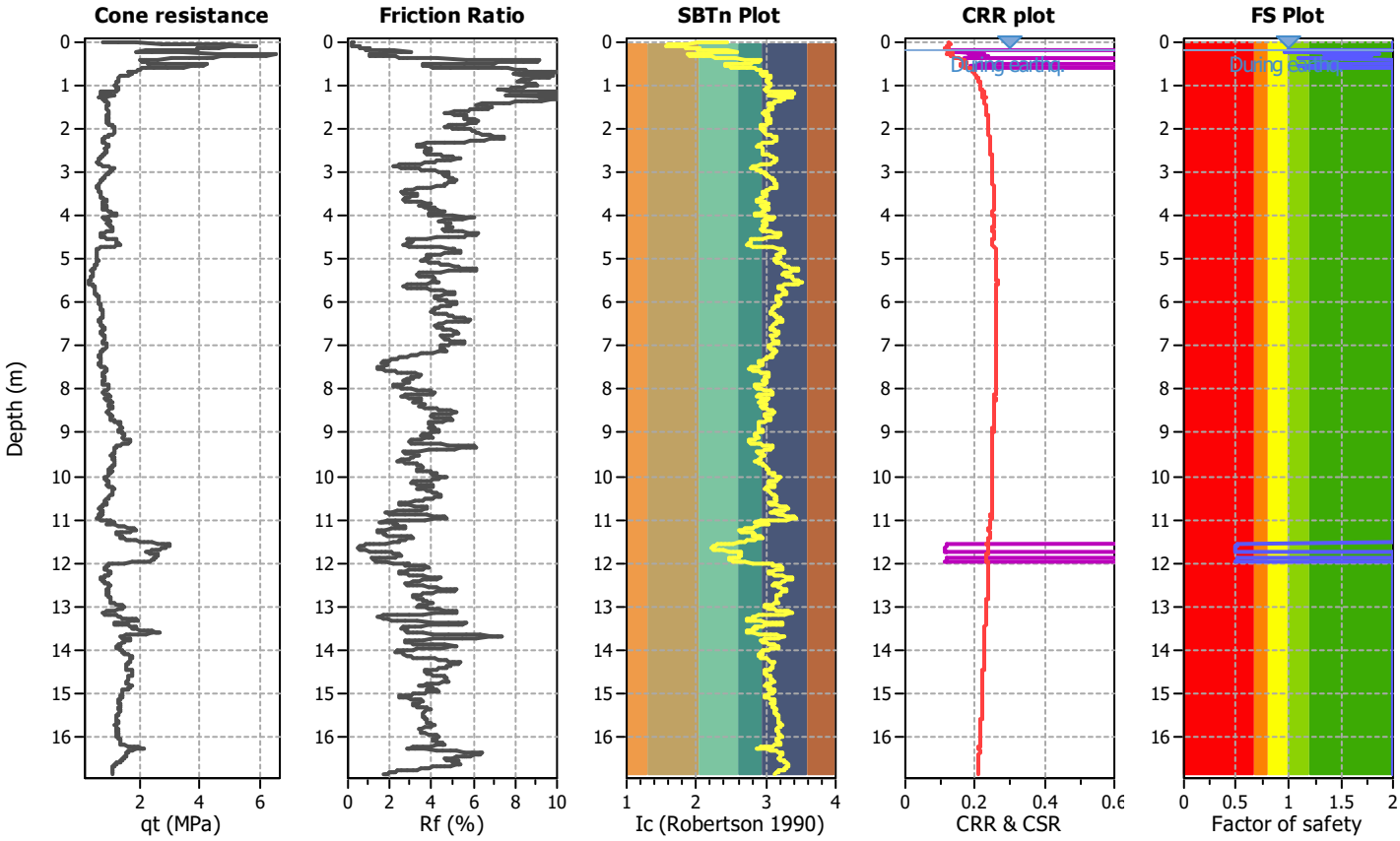
LIQUEFACTION ANALYSIS REPORT

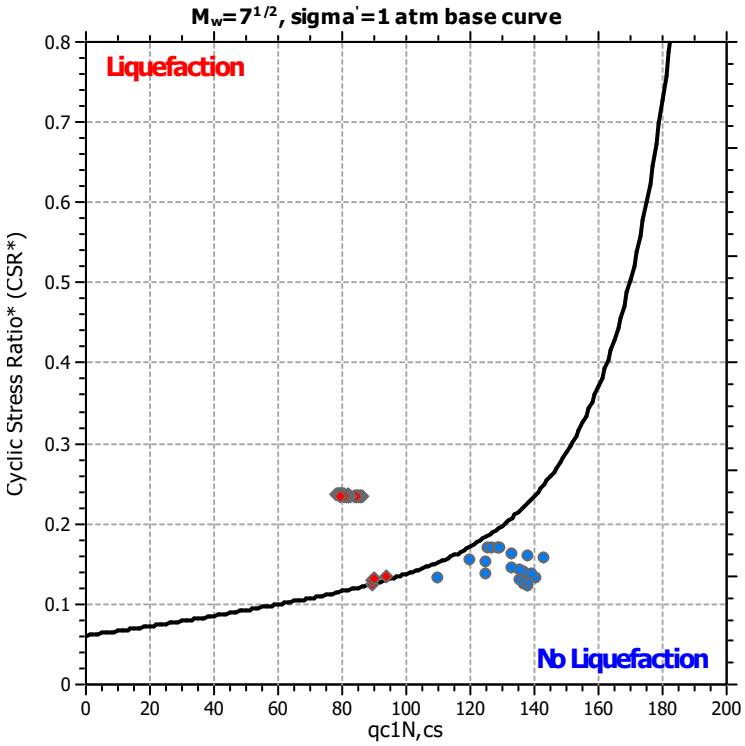
Project title : **Location :**

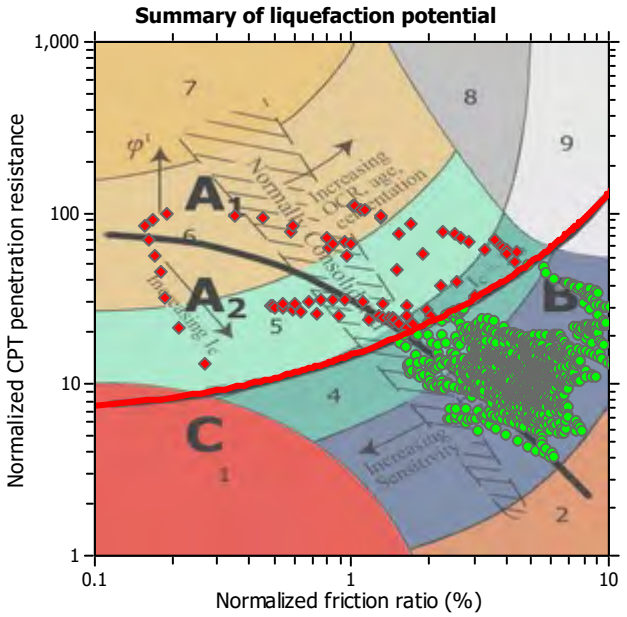
CPT file : SP131

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

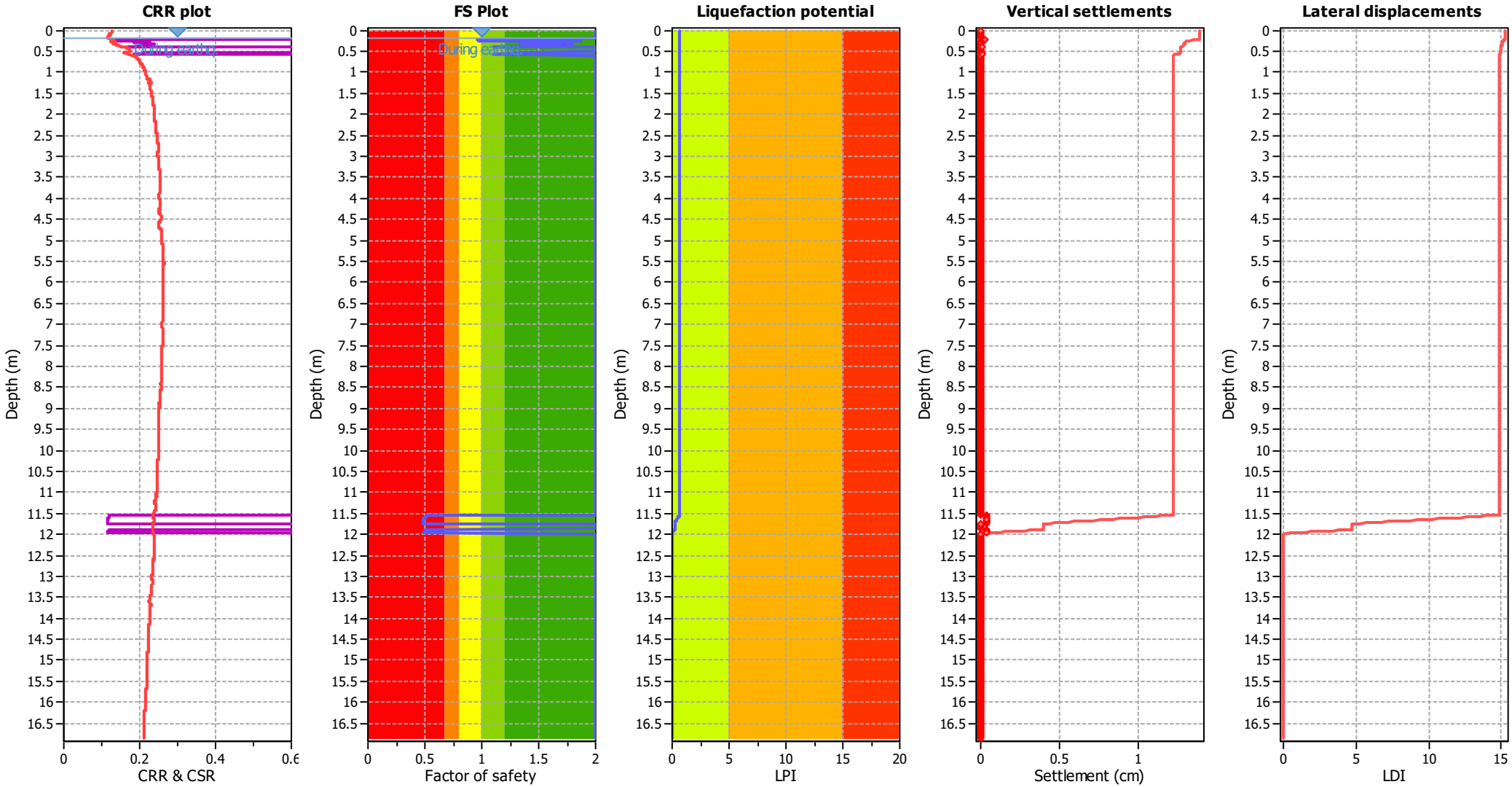






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.01	2.00	0.00	0.00	0.01	0.00	0.02	2.00	0.00	0.00	0.01	0.00
0.03	2.00	0.00	0.00	0.01	0.00	0.04	2.00	0.00	0.00	0.01	0.00
0.05	2.00	0.00	0.00	0.01	0.00	0.06	2.00	0.00	0.00	0.01	0.00
0.07	2.00	0.00	0.00	0.01	0.00	0.08	2.00	0.00	0.00	0.01	0.00
0.09	2.00	0.00	0.00	0.01	0.00	0.10	2.00	0.00	0.00	0.01	0.00
0.11	2.00	0.00	0.00	0.01	0.00	0.12	2.00	0.00	0.00	0.01	0.00
0.13	2.00	0.00	0.00	0.01	0.00	0.14	2.00	0.00	0.00	0.01	0.00
0.15	2.00	0.00	0.00	0.01	0.00	0.16	2.00	0.00	0.00	0.01	0.00
0.17	2.00	0.00	0.00	0.01	0.00	0.18	2.00	0.00	0.00	0.01	0.00
0.19	2.00	0.00	0.00	0.01	0.00	0.20	2.00	0.00	0.00	0.01	0.00
0.21	1.00	0.00	026959097	0.01	0.00	0.22	0.97	0.03	949.09	0.01	0.00
0.23	0.96	0.04	80.18	0.01	0.00	0.24	0.97	0.03	864.64	0.01	0.00
0.25	1.16	0.00	0.00	0.01	0.00	0.26	1.87	0.00	0.00	0.01	0.00
0.27	1.78	0.00	0.00	0.01	0.00	0.28	1.78	0.00	0.00	0.01	0.00
0.29	1.66	0.00	0.00	0.01	0.00	0.30	1.34	0.00	0.00	0.01	0.00
0.31	1.68	0.00	0.00	0.01	0.00	0.32	1.79	0.00	0.00	0.01	0.00
0.33	1.64	0.00	0.00	0.01	0.00	0.34	1.70	0.00	0.00	0.01	0.00
0.35	1.59	0.00	0.00	0.01	0.00	0.36	1.53	0.00	0.00	0.01	0.00
0.37	1.43	0.00	0.00	0.01	0.00	0.38	1.21	0.00	0.00	0.01	0.00
0.39	1.10	0.00	0.00	0.01	0.00	0.40	2.00	0.00	0.00	0.01	0.00
0.41	2.00	0.00	0.00	0.01	0.00	0.42	2.00	0.00	0.00	0.01	0.00
0.43	2.00	0.00	0.00	0.01	0.00	0.44	2.00	0.00	0.00	0.01	0.00
0.45	2.00	0.00	0.00	0.01	0.00	0.46	2.00	0.00	0.00	0.01	0.00
0.47	2.00	0.00	0.00	0.01	0.00	0.48	2.00	0.00	0.00	0.01	0.00
0.49	2.00	0.00	0.00	0.01	0.00	0.50	2.00	0.00	0.00	0.01	0.00
0.51	2.00	0.00	0.00	0.01	0.00	0.52	1.29	0.00	0.00	0.01	0.00
0.53	1.60	0.00	0.00	0.01	0.00	0.54	1.41	0.00	0.00	0.01	0.00
0.55	1.10	0.00	0.00	0.01	0.00	0.56	1.11	0.00	0.00	0.01	0.00
0.57	1.14	0.00	0.00	0.01	0.00	0.58	1.16	0.00	0.00	0.01	0.00
0.59	2.00	0.00	0.00	0.01	0.00	0.60	2.00	0.00	0.00	0.01	0.00
0.61	2.00	0.00	0.00	0.01	0.00	0.62	2.00	0.00	0.00	0.01	0.00
0.63	2.00	0.00	0.00	0.01	0.00	0.64	2.00	0.00	0.00	0.01	0.00
0.65	2.00	0.00	0.00	0.01	0.00	0.66	2.00	0.00	0.00	0.01	0.00
0.67	2.00	0.00	0.00	0.01	0.00	0.68	2.00	0.00	0.00	0.01	0.00
0.69	2.00	0.00	0.00	0.01	0.00	0.70	2.00	0.00	0.00	0.01	0.00
0.71	2.00	0.00	0.00	0.01	0.00	0.72	2.00	0.00	0.00	0.01	0.00
0.73	2.00	0.00	0.00	0.01	0.00	0.74	2.00	0.00	0.00	0.01	0.00
0.75	2.00	0.00	0.00	0.01	0.00	0.76	2.00	0.00	0.00	0.01	0.00
0.77	2.00	0.00	0.00	0.01	0.00	0.78	2.00	0.00	0.00	0.01	0.00
0.79	2.00	0.00	0.00	0.01	0.00	0.80	2.00	0.00	0.00	0.01	0.00
0.81	2.00	0.00	0.00	0.01	0.00	0.82	2.00	0.00	0.00	0.01	0.00
0.83	2.00	0.00	0.00	0.01	0.00	0.84	2.00	0.00	0.00	0.01	0.00
0.85	2.00	0.00	0.00	0.01	0.00	0.86	2.00	0.00	0.00	0.01	0.00
0.87	2.00	0.00	0.00	0.01	0.00	0.88	2.00	0.00	0.00	0.01	0.00
0.89	2.00	0.00	0.00	0.01	0.00	0.90	2.00	0.00	0.00	0.01	0.00
0.91	2.00	0.00	0.00	0.01	0.00	0.92	2.00	0.00	0.00	0.01	0.00
0.93	2.00	0.00	0.00	0.01	0.00	0.94	2.00	0.00	0.00	0.01	0.00
0.95	2.00	0.00	0.00	0.01	0.00	0.96	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.97	2.00	0.00	0.00	0.01	0.00	0.98	2.00	0.00	0.00	0.01	0.00
0.99	2.00	0.00	0.00	0.01	0.00	1.00	2.00	0.00	0.00	0.01	0.00
1.01	2.00	0.00	0.00	0.01	0.00	1.02	2.00	0.00	0.00	0.01	0.00
1.03	2.00	0.00	0.00	0.01	0.00	1.04	2.00	0.00	0.00	0.01	0.00
1.05	2.00	0.00	0.00	0.01	0.00	1.06	2.00	0.00	0.00	0.01	0.00
1.07	2.00	0.00	0.00	0.01	0.00	1.08	2.00	0.00	0.00	0.01	0.00
1.09	2.00	0.00	0.00	0.01	0.00	1.10	2.00	0.00	0.00	0.01	0.00
1.11	2.00	0.00	0.00	0.01	0.00	1.12	2.00	0.00	0.00	0.01	0.00
1.13	2.00	0.00	0.00	0.01	0.00	1.14	2.00	0.00	0.00	0.01	0.00
1.15	2.00	0.00	0.00	0.01	0.00	1.16	2.00	0.00	0.00	0.01	0.00
1.17	2.00	0.00	0.00	0.01	0.00	1.18	2.00	0.00	0.00	0.01	0.00
1.19	2.00	0.00	0.00	0.01	0.00	1.20	2.00	0.00	0.00	0.01	0.00
1.21	2.00	0.00	0.00	0.01	0.00	1.22	2.00	0.00	0.00	0.01	0.00
1.23	2.00	0.00	0.00	0.01	0.00	1.24	2.00	0.00	0.00	0.01	0.00
1.25	2.00	0.00	0.00	0.01	0.00	1.26	2.00	0.00	0.00	0.01	0.00
1.27	2.00	0.00	0.00	0.01	0.00	1.28	2.00	0.00	0.00	0.01	0.00
1.29	2.00	0.00	0.00	0.01	0.00	1.30	2.00	0.00	0.00	0.01	0.00
1.31	2.00	0.00	0.00	0.01	0.00	1.32	2.00	0.00	0.00	0.01	0.00
1.33	2.00	0.00	0.00	0.01	0.00	1.34	2.00	0.00	0.00	0.01	0.00
1.35	2.00	0.00	0.00	0.01	0.00	1.36	2.00	0.00	0.00	0.01	0.00
1.37	2.00	0.00	0.00	0.01	0.00	1.38	2.00	0.00	0.00	0.01	0.00
1.39	2.00	0.00	0.00	0.01	0.00	1.40	2.00	0.00	0.00	0.01	0.00
1.41	2.00	0.00	0.00	0.01	0.00	1.42	2.00	0.00	0.00	0.01	0.00
1.43	2.00	0.00	0.00	0.01	0.00	1.44	2.00	0.00	0.00	0.01	0.00
1.45	2.00	0.00	0.00	0.01	0.00	1.46	2.00	0.00	0.00	0.01	0.00
1.47	2.00	0.00	0.00	0.01	0.00	1.48	2.00	0.00	0.00	0.01	0.00
1.49	2.00	0.00	0.00	0.01	0.00	1.50	2.00	0.00	0.00	0.01	0.00
1.51	2.00	0.00	0.00	0.01	0.00	1.52	2.00	0.00	0.00	0.01	0.00
1.53	2.00	0.00	0.00	0.01	0.00	1.54	2.00	0.00	0.00	0.01	0.00
1.55	2.00	0.00	0.00	0.01	0.00	1.56	2.00	0.00	0.00	0.01	0.00
1.57	2.00	0.00	0.00	0.01	0.00	1.58	2.00	0.00	0.00	0.01	0.00
1.59	2.00	0.00	0.00	0.01	0.00	1.60	2.00	0.00	0.00	0.01	0.00
1.61	2.00	0.00	0.00	0.01	0.00	1.62	2.00	0.00	0.00	0.01	0.00
1.63	2.00	0.00	0.00	0.01	0.00	1.64	2.00	0.00	0.00	0.01	0.00
1.65	2.00	0.00	0.00	0.01	0.00	1.66	2.00	0.00	0.00	0.01	0.00
1.67	2.00	0.00	0.00	0.01	0.00	1.68	2.00	0.00	0.00	0.01	0.00
1.69	2.00	0.00	0.00	0.01	0.00	1.70	2.00	0.00	0.00	0.01	0.00
1.71	2.00	0.00	0.00	0.01	0.00	1.72	2.00	0.00	0.00	0.01	0.00
1.73	2.00	0.00	0.00	0.01	0.00	1.74	2.00	0.00	0.00	0.01	0.00
1.75	2.00	0.00	0.00	0.01	0.00	1.76	2.00	0.00	0.00	0.01	0.00
1.77	2.00	0.00	0.00	0.01	0.00	1.78	2.00	0.00	0.00	0.01	0.00
1.79	2.00	0.00	0.00	0.01	0.00	1.80	2.00	0.00	0.00	0.01	0.00
1.81	2.00	0.00	0.00	0.01	0.00	1.82	2.00	0.00	0.00	0.01	0.00
1.83	2.00	0.00	0.00	0.01	0.00	1.84	2.00	0.00	0.00	0.01	0.00
1.85	2.00	0.00	0.00	0.01	0.00	1.86	2.00	0.00	0.00	0.01	0.00
1.87	2.00	0.00	0.00	0.01	0.00	1.88	2.00	0.00	0.00	0.01	0.00
1.89	2.00	0.00	0.00	0.01	0.00	1.90	2.00	0.00	0.00	0.01	0.00
1.91	2.00	0.00	0.00	0.01	0.00	1.92	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
1.93	2.00	0.00	0.00	0.01	0.00	1.94	2.00	0.00	0.00	0.01	0.00
1.95	2.00	0.00	0.00	0.01	0.00	1.96	2.00	0.00	0.00	0.01	0.00
1.97	2.00	0.00	0.00	0.01	0.00	1.98	2.00	0.00	0.00	0.01	0.00
1.99	2.00	0.00	0.00	0.01	0.00	2.00	2.00	0.00	0.00	0.01	0.00
2.01	2.00	0.00	0.00	0.01	0.00	2.02	2.00	0.00	0.00	0.01	0.00
2.03	2.00	0.00	0.00	0.01	0.00	2.04	2.00	0.00	0.00	0.01	0.00
2.05	2.00	0.00	0.00	0.01	0.00	2.06	2.00	0.00	0.00	0.01	0.00
2.07	2.00	0.00	0.00	0.01	0.00	2.08	2.00	0.00	0.00	0.01	0.00
2.09	2.00	0.00	0.00	0.01	0.00	2.10	2.00	0.00	0.00	0.01	0.00
2.11	2.00	0.00	0.00	0.01	0.00	2.12	2.00	0.00	0.00	0.01	0.00
2.13	2.00	0.00	0.00	0.01	0.00	2.14	2.00	0.00	0.00	0.01	0.00
2.15	2.00	0.00	0.00	0.01	0.00	2.16	2.00	0.00	0.00	0.01	0.00
2.17	2.00	0.00	0.00	0.01	0.00	2.18	2.00	0.00	0.00	0.01	0.00
2.19	2.00	0.00	0.00	0.01	0.00	2.20	2.00	0.00	0.00	0.01	0.00
2.21	2.00	0.00	0.00	0.01	0.00	2.22	2.00	0.00	0.00	0.01	0.00
2.23	2.00	0.00	0.00	0.01	0.00	2.24	2.00	0.00	0.00	0.01	0.00
2.25	2.00	0.00	0.00	0.01	0.00	2.26	2.00	0.00	0.00	0.01	0.00
2.27	2.00	0.00	0.00	0.01	0.00	2.28	2.00	0.00	0.00	0.01	0.00
2.29	2.00	0.00	0.00	0.01	0.00	2.30	2.00	0.00	0.00	0.01	0.00
2.31	2.00	0.00	0.00	0.01	0.00	2.32	2.00	0.00	0.00	0.01	0.00
2.33	2.00	0.00	0.00	0.01	0.00	2.34	2.00	0.00	0.00	0.01	0.00
2.35	2.00	0.00	0.00	0.01	0.00	2.36	2.00	0.00	0.00	0.01	0.00
2.37	2.00	0.00	0.00	0.01	0.00	2.38	2.00	0.00	0.00	0.01	0.00
2.39	2.00	0.00	0.00	0.01	0.00	2.40	2.00	0.00	0.00	0.01	0.00
2.41	2.00	0.00	0.00	0.01	0.00	2.42	2.00	0.00	0.00	0.01	0.00
2.43	2.00	0.00	0.00	0.01	0.00	2.44	2.00	0.00	0.00	0.01	0.00
2.45	2.00	0.00	0.00	0.01	0.00	2.46	2.00	0.00	0.00	0.01	0.00
2.47	2.00	0.00	0.00	0.01	0.00	2.48	2.00	0.00	0.00	0.01	0.00
2.49	2.00	0.00	0.00	0.01	0.00	2.50	2.00	0.00	0.00	0.01	0.00
2.51	2.00	0.00	0.00	0.01	0.00	2.52	2.00	0.00	0.00	0.01	0.00
2.53	2.00	0.00	0.00	0.01	0.00	2.54	2.00	0.00	0.00	0.01	0.00
2.55	2.00	0.00	0.00	0.01	0.00	2.56	2.00	0.00	0.00	0.01	0.00
2.57	2.00	0.00	0.00	0.01	0.00	2.58	2.00	0.00	0.00	0.01	0.00
2.59	2.00	0.00	0.00	0.01	0.00	2.60	2.00	0.00	0.00	0.01	0.00
2.61	2.00	0.00	0.00	0.01	0.00	2.62	2.00	0.00	0.00	0.01	0.00
2.63	2.00	0.00	0.00	0.01	0.00	2.64	2.00	0.00	0.00	0.01	0.00
2.65	2.00	0.00	0.00	0.01	0.00	2.66	2.00	0.00	0.00	0.01	0.00
2.67	2.00	0.00	0.00	0.01	0.00	2.68	2.00	0.00	0.00	0.01	0.00
2.69	2.00	0.00	0.00	0.01	0.00	2.70	2.00	0.00	0.00	0.01	0.00
2.71	2.00	0.00	0.00	0.01	0.00	2.72	2.00	0.00	0.00	0.01	0.00
2.73	2.00	0.00	0.00	0.01	0.00	2.74	2.00	0.00	0.00	0.01	0.00
2.75	2.00	0.00	0.00	0.01	0.00	2.76	2.00	0.00	0.00	0.01	0.00
2.77	2.00	0.00	0.00	0.01	0.00	2.78	2.00	0.00	0.00	0.01	0.00
2.79	2.00	0.00	0.00	0.01	0.00	2.80	2.00	0.00	0.00	0.01	0.00
2.81	2.00	0.00	0.00	0.01	0.00	2.82	2.00	0.00	0.00	0.01	0.00
2.83	2.00	0.00	0.00	0.01	0.00	2.84	2.00	0.00	0.00	0.01	0.00
2.85	2.00	0.00	0.00	0.01	0.00	2.86	2.00	0.00	0.00	0.01	0.00
2.87	2.00	0.00	0.00	0.01	0.00	2.88	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.89	2.00	0.00	0.00	0.01	0.00	2.90	2.00	0.00	0.00	0.01	0.00
2.91	2.00	0.00	0.00	0.01	0.00	2.92	2.00	0.00	0.00	0.01	0.00
2.93	2.00	0.00	0.00	0.01	0.00	2.94	2.00	0.00	0.00	0.01	0.00
2.95	2.00	0.00	0.00	0.01	0.00	2.96	2.00	0.00	0.00	0.01	0.00
2.97	2.00	0.00	0.00	0.01	0.00	2.98	2.00	0.00	0.00	0.01	0.00
2.99	2.00	0.00	0.00	0.01	0.00	3.00	2.00	0.00	0.00	0.01	0.00
3.01	2.00	0.00	0.00	0.01	0.00	3.02	2.00	0.00	0.00	0.01	0.00
3.03	2.00	0.00	0.00	0.01	0.00	3.04	2.00	0.00	0.00	0.01	0.00
3.05	2.00	0.00	0.00	0.01	0.00	3.06	2.00	0.00	0.00	0.01	0.00
3.07	2.00	0.00	0.00	0.01	0.00	3.08	2.00	0.00	0.00	0.01	0.00
3.09	2.00	0.00	0.00	0.01	0.00	3.10	2.00	0.00	0.00	0.01	0.00
3.11	2.00	0.00	0.00	0.01	0.00	3.12	2.00	0.00	0.00	0.01	0.00
3.13	2.00	0.00	0.00	0.01	0.00	3.14	2.00	0.00	0.00	0.01	0.00
3.15	2.00	0.00	0.00	0.01	0.00	3.16	2.00	0.00	0.00	0.01	0.00
3.17	2.00	0.00	0.00	0.01	0.00	3.18	2.00	0.00	0.00	0.01	0.00
3.19	2.00	0.00	0.00	0.01	0.00	3.20	2.00	0.00	0.00	0.01	0.00
3.21	2.00	0.00	0.00	0.01	0.00	3.22	2.00	0.00	0.00	0.01	0.00
3.23	2.00	0.00	0.00	0.01	0.00	3.24	2.00	0.00	0.00	0.01	0.00
3.25	2.00	0.00	0.00	0.01	0.00	3.26	2.00	0.00	0.00	0.01	0.00
3.27	2.00	0.00	0.00	0.01	0.00	3.28	2.00	0.00	0.00	0.01	0.00
3.29	2.00	0.00	0.00	0.01	0.00	3.30	2.00	0.00	0.00	0.01	0.00
3.31	2.00	0.00	0.00	0.01	0.00	3.32	2.00	0.00	0.00	0.01	0.00
3.33	2.00	0.00	0.00	0.01	0.00	3.34	2.00	0.00	0.00	0.01	0.00
3.35	2.00	0.00	0.00	0.01	0.00	3.36	2.00	0.00	0.00	0.01	0.00
3.37	2.00	0.00	0.00	0.01	0.00	3.38	2.00	0.00	0.00	0.01	0.00
3.39	2.00	0.00	0.00	0.01	0.00	3.40	2.00	0.00	0.00	0.01	0.00
3.41	2.00	0.00	0.00	0.01	0.00	3.42	2.00	0.00	0.00	0.01	0.00
3.43	2.00	0.00	0.00	0.01	0.00	3.44	2.00	0.00	0.00	0.01	0.00
3.45	2.00	0.00	0.00	0.01	0.00	3.46	2.00	0.00	0.00	0.01	0.00
3.47	2.00	0.00	0.00	0.01	0.00	3.48	2.00	0.00	0.00	0.01	0.00
3.49	2.00	0.00	0.00	0.01	0.00	3.50	2.00	0.00	0.00	0.01	0.00
3.51	2.00	0.00	0.00	0.01	0.00	3.52	2.00	0.00	0.00	0.01	0.00
3.53	2.00	0.00	0.00	0.01	0.00	3.54	2.00	0.00	0.00	0.01	0.00
3.55	2.00	0.00	0.00	0.01	0.00	3.56	2.00	0.00	0.00	0.01	0.00
3.57	2.00	0.00	0.00	0.01	0.00	3.58	2.00	0.00	0.00	0.01	0.00
3.59	2.00	0.00	0.00	0.01	0.00	3.60	2.00	0.00	0.00	0.01	0.00
3.61	2.00	0.00	0.00	0.01	0.00	3.62	2.00	0.00	0.00	0.01	0.00
3.63	2.00	0.00	0.00	0.01	0.00	3.64	2.00	0.00	0.00	0.01	0.00
3.65	2.00	0.00	0.00	0.01	0.00	3.66	2.00	0.00	0.00	0.01	0.00
3.67	2.00	0.00	0.00	0.01	0.00	3.68	2.00	0.00	0.00	0.01	0.00
3.69	2.00	0.00	0.00	0.01	0.00	3.70	2.00	0.00	0.00	0.01	0.00
3.71	2.00	0.00	0.00	0.01	0.00	3.72	2.00	0.00	0.00	0.01	0.00
3.73	2.00	0.00	0.00	0.01	0.00	3.74	2.00	0.00	0.00	0.01	0.00
3.75	2.00	0.00	0.00	0.01	0.00	3.76	2.00	0.00	0.00	0.01	0.00
3.77	2.00	0.00	0.00	0.01	0.00	3.78	2.00	0.00	0.00	0.01	0.00
3.79	2.00	0.00	0.00	0.01	0.00	3.80	2.00	0.00	0.00	0.01	0.00
3.81	2.00	0.00	0.00	0.01	0.00	3.82	2.00	0.00	0.00	0.01	0.00
3.83	2.00	0.00	0.00	0.01	0.00	3.84	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
3.85	2.00	0.00	0.00	0.01	0.00	3.86	2.00	0.00	0.00	0.01	0.00
3.87	2.00	0.00	0.00	0.01	0.00	3.88	2.00	0.00	0.00	0.01	0.00
3.89	2.00	0.00	0.00	0.01	0.00	3.90	2.00	0.00	0.00	0.01	0.00
3.91	2.00	0.00	0.00	0.01	0.00	3.92	2.00	0.00	0.00	0.01	0.00
3.93	2.00	0.00	0.00	0.01	0.00	3.94	2.00	0.00	0.00	0.01	0.00
3.95	2.00	0.00	0.00	0.01	0.00	3.96	2.00	0.00	0.00	0.01	0.00
3.97	2.00	0.00	0.00	0.01	0.00	3.98	2.00	0.00	0.00	0.01	0.00
3.99	2.00	0.00	0.00	0.01	0.00	4.00	2.00	0.00	0.00	0.01	0.00
4.01	2.00	0.00	0.00	0.01	0.00	4.02	2.00	0.00	0.00	0.01	0.00
4.03	2.00	0.00	0.00	0.01	0.00	4.04	2.00	0.00	0.00	0.01	0.00
4.05	2.00	0.00	0.00	0.01	0.00	4.06	2.00	0.00	0.00	0.01	0.00
4.07	2.00	0.00	0.00	0.01	0.00	4.08	2.00	0.00	0.00	0.01	0.00
4.09	2.00	0.00	0.00	0.01	0.00	4.10	2.00	0.00	0.00	0.01	0.00
4.11	2.00	0.00	0.00	0.01	0.00	4.12	2.00	0.00	0.00	0.01	0.00
4.13	2.00	0.00	0.00	0.01	0.00	4.14	2.00	0.00	0.00	0.01	0.00
4.15	2.00	0.00	0.00	0.01	0.00	4.16	2.00	0.00	0.00	0.01	0.00
4.17	2.00	0.00	0.00	0.01	0.00	4.18	2.00	0.00	0.00	0.01	0.00
4.19	2.00	0.00	0.00	0.01	0.00	4.20	2.00	0.00	0.00	0.01	0.00
4.21	2.00	0.00	0.00	0.01	0.00	4.22	2.00	0.00	0.00	0.01	0.00
4.23	2.00	0.00	0.00	0.01	0.00	4.24	2.00	0.00	0.00	0.01	0.00
4.25	2.00	0.00	0.00	0.01	0.00	4.26	2.00	0.00	0.00	0.01	0.00
4.27	2.00	0.00	0.00	0.01	0.00	4.28	2.00	0.00	0.00	0.01	0.00
4.29	2.00	0.00	0.00	0.01	0.00	4.30	2.00	0.00	0.00	0.01	0.00
4.31	2.00	0.00	0.00	0.01	0.00	4.32	2.00	0.00	0.00	0.01	0.00
4.33	2.00	0.00	0.00	0.01	0.00	4.34	2.00	0.00	0.00	0.01	0.00
4.35	2.00	0.00	0.00	0.01	0.00	4.36	2.00	0.00	0.00	0.01	0.00
4.37	2.00	0.00	0.00	0.01	0.00	4.38	2.00	0.00	0.00	0.01	0.00
4.39	2.00	0.00	0.00	0.01	0.00	4.40	2.00	0.00	0.00	0.01	0.00
4.41	2.00	0.00	0.00	0.01	0.00	4.42	2.00	0.00	0.00	0.01	0.00
4.43	2.00	0.00	0.00	0.01	0.00	4.44	2.00	0.00	0.00	0.01	0.00
4.45	2.00	0.00	0.00	0.01	0.00	4.46	2.00	0.00	0.00	0.01	0.00
4.47	2.00	0.00	0.00	0.01	0.00	4.48	2.00	0.00	0.00	0.01	0.00
4.49	2.00	0.00	0.00	0.01	0.00	4.50	2.00	0.00	0.00	0.01	0.00
4.51	2.00	0.00	0.00	0.01	0.00	4.52	2.00	0.00	0.00	0.01	0.00
4.53	2.00	0.00	0.00	0.01	0.00	4.54	2.00	0.00	0.00	0.01	0.00
4.55	2.00	0.00	0.00	0.01	0.00	4.56	2.00	0.00	0.00	0.01	0.00
4.57	2.00	0.00	0.00	0.01	0.00	4.58	2.00	0.00	0.00	0.01	0.00
4.59	2.00	0.00	0.00	0.01	0.00	4.60	2.00	0.00	0.00	0.01	0.00
4.61	2.00	0.00	0.00	0.01	0.00	4.62	2.00	0.00	0.00	0.01	0.00
4.63	2.00	0.00	0.00	0.01	0.00	4.64	2.00	0.00	0.00	0.01	0.00
4.65	2.00	0.00	0.00	0.01	0.00	4.66	2.00	0.00	0.00	0.01	0.00
4.67	2.00	0.00	0.00	0.01	0.00	4.68	2.00	0.00	0.00	0.01	0.00
4.69	2.00	0.00	0.00	0.01	0.00	4.70	2.00	0.00	0.00	0.01	0.00
4.71	2.00	0.00	0.00	0.01	0.00	4.72	2.00	0.00	0.00	0.01	0.00
4.73	2.00	0.00	0.00	0.01	0.00	4.74	2.00	0.00	0.00	0.01	0.00
4.75	2.00	0.00	0.00	0.01	0.00	4.76	2.00	0.00	0.00	0.01	0.00
4.77	2.00	0.00	0.00	0.01	0.00	4.78	2.00	0.00	0.00	0.01	0.00
4.79	2.00	0.00	0.00	0.01	0.00	4.80	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.81	2.00	0.00	0.00	0.01	0.00	4.82	2.00	0.00	0.00	0.01	0.00
4.83	2.00	0.00	0.00	0.01	0.00	4.84	2.00	0.00	0.00	0.01	0.00
4.85	2.00	0.00	0.00	0.01	0.00	4.86	2.00	0.00	0.00	0.01	0.00
4.87	2.00	0.00	0.00	0.01	0.00	4.88	2.00	0.00	0.00	0.01	0.00
4.89	2.00	0.00	0.00	0.01	0.00	4.90	2.00	0.00	0.00	0.01	0.00
4.91	2.00	0.00	0.00	0.01	0.00	4.92	2.00	0.00	0.00	0.01	0.00
4.93	2.00	0.00	0.00	0.01	0.00	4.94	2.00	0.00	0.00	0.01	0.00
4.95	2.00	0.00	0.00	0.01	0.00	4.96	2.00	0.00	0.00	0.01	0.00
4.97	2.00	0.00	0.00	0.01	0.00	4.98	2.00	0.00	0.00	0.01	0.00
4.99	2.00	0.00	0.00	0.01	0.00	5.00	2.00	0.00	0.00	0.01	0.00
5.01	2.00	0.00	0.00	0.01	0.00	5.02	2.00	0.00	0.00	0.01	0.00
5.03	2.00	0.00	0.00	0.01	0.00	5.04	2.00	0.00	0.00	0.01	0.00
5.05	2.00	0.00	0.00	0.01	0.00	5.06	2.00	0.00	0.00	0.01	0.00
5.07	2.00	0.00	0.00	0.01	0.00	5.08	2.00	0.00	0.00	0.01	0.00
5.09	2.00	0.00	0.00	0.01	0.00	5.10	2.00	0.00	0.00	0.01	0.00
5.11	2.00	0.00	0.00	0.01	0.00	5.12	2.00	0.00	0.00	0.01	0.00
5.13	2.00	0.00	0.00	0.01	0.00	5.14	2.00	0.00	0.00	0.01	0.00
5.15	2.00	0.00	0.00	0.01	0.00	5.16	2.00	0.00	0.00	0.01	0.00
5.17	2.00	0.00	0.00	0.01	0.00	5.18	2.00	0.00	0.00	0.01	0.00
5.19	2.00	0.00	0.00	0.01	0.00	5.20	2.00	0.00	0.00	0.01	0.00
5.21	2.00	0.00	0.00	0.01	0.00	5.22	2.00	0.00	0.00	0.01	0.00
5.23	2.00	0.00	0.00	0.01	0.00	5.24	2.00	0.00	0.00	0.01	0.00
5.25	2.00	0.00	0.00	0.01	0.00	5.26	2.00	0.00	0.00	0.01	0.00
5.27	2.00	0.00	0.00	0.01	0.00	5.28	2.00	0.00	0.00	0.01	0.00
5.29	2.00	0.00	0.00	0.01	0.00	5.30	2.00	0.00	0.00	0.01	0.00
5.31	2.00	0.00	0.00	0.01	0.00	5.32	2.00	0.00	0.00	0.01	0.00
5.33	2.00	0.00	0.00	0.01	0.00	5.34	2.00	0.00	0.00	0.01	0.00
5.35	2.00	0.00	0.00	0.01	0.00	5.36	2.00	0.00	0.00	0.01	0.00
5.37	2.00	0.00	0.00	0.01	0.00	5.38	2.00	0.00	0.00	0.01	0.00
5.39	2.00	0.00	0.00	0.01	0.00	5.40	2.00	0.00	0.00	0.01	0.00
5.41	2.00	0.00	0.00	0.01	0.00	5.42	2.00	0.00	0.00	0.01	0.00
5.43	2.00	0.00	0.00	0.01	0.00	5.44	2.00	0.00	0.00	0.01	0.00
5.45	2.00	0.00	0.00	0.01	0.00	5.46	2.00	0.00	0.00	0.01	0.00
5.47	2.00	0.00	0.00	0.01	0.00	5.48	2.00	0.00	0.00	0.01	0.00
5.49	2.00	0.00	0.00	0.01	0.00	5.50	2.00	0.00	0.00	0.01	0.00
5.51	2.00	0.00	0.00	0.01	0.00	5.52	2.00	0.00	0.00	0.01	0.00
5.53	2.00	0.00	0.00	0.01	0.00	5.54	2.00	0.00	0.00	0.01	0.00
5.55	2.00	0.00	0.00	0.01	0.00	5.56	2.00	0.00	0.00	0.01	0.00
5.57	2.00	0.00	0.00	0.01	0.00	5.58	2.00	0.00	0.00	0.01	0.00
5.59	2.00	0.00	0.00	0.01	0.00	5.60	2.00	0.00	0.00	0.01	0.00
5.61	2.00	0.00	0.00	0.01	0.00	5.62	2.00	0.00	0.00	0.01	0.00
5.63	2.00	0.00	0.00	0.01	0.00	5.64	2.00	0.00	0.00	0.01	0.00
5.65	2.00	0.00	0.00	0.01	0.00	5.66	2.00	0.00	0.00	0.01	0.00
5.67	2.00	0.00	0.00	0.01	0.00	5.68	2.00	0.00	0.00	0.01	0.00
5.69	2.00	0.00	0.00	0.01	0.00	5.70	2.00	0.00	0.00	0.01	0.00
5.71	2.00	0.00	0.00	0.01	0.00	5.72	2.00	0.00	0.00	0.01	0.00
5.73	2.00	0.00	0.00	0.01	0.00	5.74	2.00	0.00	0.00	0.01	0.00
5.75	2.00	0.00	0.00	0.01	0.00	5.76	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
5.77	2.00	0.00	0.00	0.01	0.00	5.78	2.00	0.00	0.00	0.01	0.00
5.79	2.00	0.00	0.00	0.01	0.00	5.80	2.00	0.00	0.00	0.01	0.00
5.81	2.00	0.00	0.00	0.01	0.00	5.82	2.00	0.00	0.00	0.01	0.00
5.83	2.00	0.00	0.00	0.01	0.00	5.84	2.00	0.00	0.00	0.01	0.00
5.85	2.00	0.00	0.00	0.01	0.00	5.86	2.00	0.00	0.00	0.01	0.00
5.87	2.00	0.00	0.00	0.01	0.00	5.88	2.00	0.00	0.00	0.01	0.00
5.89	2.00	0.00	0.00	0.01	0.00	5.90	2.00	0.00	0.00	0.01	0.00
5.91	2.00	0.00	0.00	0.01	0.00	5.92	2.00	0.00	0.00	0.01	0.00
5.93	2.00	0.00	0.00	0.01	0.00	5.94	2.00	0.00	0.00	0.01	0.00
5.95	2.00	0.00	0.00	0.01	0.00	5.96	2.00	0.00	0.00	0.01	0.00
5.97	2.00	0.00	0.00	0.01	0.00	5.98	2.00	0.00	0.00	0.01	0.00
5.99	2.00	0.00	0.00	0.01	0.00	6.00	2.00	0.00	0.00	0.01	0.00
6.01	2.00	0.00	0.00	0.01	0.00	6.02	2.00	0.00	0.00	0.01	0.00
6.03	2.00	0.00	0.00	0.01	0.00	6.04	2.00	0.00	0.00	0.01	0.00
6.05	2.00	0.00	0.00	0.01	0.00	6.06	2.00	0.00	0.00	0.01	0.00
6.07	2.00	0.00	0.00	0.01	0.00	6.08	2.00	0.00	0.00	0.01	0.00
6.09	2.00	0.00	0.00	0.01	0.00	6.10	2.00	0.00	0.00	0.01	0.00
6.11	2.00	0.00	0.00	0.01	0.00	6.12	2.00	0.00	0.00	0.01	0.00
6.13	2.00	0.00	0.00	0.01	0.00	6.14	2.00	0.00	0.00	0.01	0.00
6.15	2.00	0.00	0.00	0.01	0.00	6.16	2.00	0.00	0.00	0.01	0.00
6.17	2.00	0.00	0.00	0.01	0.00	6.18	2.00	0.00	0.00	0.01	0.00
6.19	2.00	0.00	0.00	0.01	0.00	6.20	2.00	0.00	0.00	0.01	0.00
6.21	2.00	0.00	0.00	0.01	0.00	6.22	2.00	0.00	0.00	0.01	0.00
6.23	2.00	0.00	0.00	0.01	0.00	6.24	2.00	0.00	0.00	0.01	0.00
6.25	2.00	0.00	0.00	0.01	0.00	6.26	2.00	0.00	0.00	0.01	0.00
6.27	2.00	0.00	0.00	0.01	0.00	6.28	2.00	0.00	0.00	0.01	0.00
6.29	2.00	0.00	0.00	0.01	0.00	6.30	2.00	0.00	0.00	0.01	0.00
6.31	2.00	0.00	0.00	0.01	0.00	6.32	2.00	0.00	0.00	0.01	0.00
6.33	2.00	0.00	0.00	0.01	0.00	6.34	2.00	0.00	0.00	0.01	0.00
6.35	2.00	0.00	0.00	0.01	0.00	6.36	2.00	0.00	0.00	0.01	0.00
6.37	2.00	0.00	0.00	0.01	0.00	6.38	2.00	0.00	0.00	0.01	0.00
6.39	2.00	0.00	0.00	0.01	0.00	6.40	2.00	0.00	0.00	0.01	0.00
6.41	2.00	0.00	0.00	0.01	0.00	6.42	2.00	0.00	0.00	0.01	0.00
6.43	2.00	0.00	0.00	0.01	0.00	6.44	2.00	0.00	0.00	0.01	0.00
6.45	2.00	0.00	0.00	0.01	0.00	6.46	2.00	0.00	0.00	0.01	0.00
6.47	2.00	0.00	0.00	0.01	0.00	6.48	2.00	0.00	0.00	0.01	0.00
6.49	2.00	0.00	0.00	0.01	0.00	6.50	2.00	0.00	0.00	0.01	0.00
6.51	2.00	0.00	0.00	0.01	0.00	6.52	2.00	0.00	0.00	0.01	0.00
6.53	2.00	0.00	0.00	0.01	0.00	6.54	2.00	0.00	0.00	0.01	0.00
6.55	2.00	0.00	0.00	0.01	0.00	6.56	2.00	0.00	0.00	0.01	0.00
6.57	2.00	0.00	0.00	0.01	0.00	6.58	2.00	0.00	0.00	0.01	0.00
6.59	2.00	0.00	0.00	0.01	0.00	6.60	2.00	0.00	0.00	0.01	0.00
6.61	2.00	0.00	0.00	0.01	0.00	6.62	2.00	0.00	0.00	0.01	0.00
6.63	2.00	0.00	0.00	0.01	0.00	6.64	2.00	0.00	0.00	0.01	0.00
6.65	2.00	0.00	0.00	0.01	0.00	6.66	2.00	0.00	0.00	0.01	0.00
6.67	2.00	0.00	0.00	0.01	0.00	6.68	2.00	0.00	0.00	0.01	0.00
6.69	2.00	0.00	0.00	0.01	0.00	6.70	2.00	0.00	0.00	0.01	0.00
6.71	2.00	0.00	0.00	0.01	0.00	6.72	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.73	2.00	0.00	0.00	0.01	0.00	6.74	2.00	0.00	0.00	0.01	0.00
6.75	2.00	0.00	0.00	0.01	0.00	6.76	2.00	0.00	0.00	0.01	0.00
6.77	2.00	0.00	0.00	0.01	0.00	6.78	2.00	0.00	0.00	0.01	0.00
6.79	2.00	0.00	0.00	0.01	0.00	6.80	2.00	0.00	0.00	0.01	0.00
6.81	2.00	0.00	0.00	0.01	0.00	6.82	2.00	0.00	0.00	0.01	0.00
6.83	2.00	0.00	0.00	0.01	0.00	6.84	2.00	0.00	0.00	0.01	0.00
6.85	2.00	0.00	0.00	0.01	0.00	6.86	2.00	0.00	0.00	0.01	0.00
6.87	2.00	0.00	0.00	0.01	0.00	6.88	2.00	0.00	0.00	0.01	0.00
6.89	2.00	0.00	0.00	0.01	0.00	6.90	2.00	0.00	0.00	0.01	0.00
6.91	2.00	0.00	0.00	0.01	0.00	6.92	2.00	0.00	0.00	0.01	0.00
6.93	2.00	0.00	0.00	0.01	0.00	6.94	2.00	0.00	0.00	0.01	0.00
6.95	2.00	0.00	0.00	0.01	0.00	6.96	2.00	0.00	0.00	0.01	0.00
6.97	2.00	0.00	0.00	0.01	0.00	6.98	2.00	0.00	0.00	0.01	0.00
6.99	2.00	0.00	0.00	0.01	0.00	7.00	2.00	0.00	0.00	0.01	0.00
7.01	2.00	0.00	0.00	0.01	0.00	7.02	2.00	0.00	0.00	0.01	0.00
7.03	2.00	0.00	0.00	0.01	0.00	7.04	2.00	0.00	0.00	0.01	0.00
7.05	2.00	0.00	0.00	0.01	0.00	7.06	2.00	0.00	0.00	0.01	0.00
7.07	2.00	0.00	0.00	0.01	0.00	7.08	2.00	0.00	0.00	0.01	0.00
7.09	2.00	0.00	0.00	0.01	0.00	7.10	2.00	0.00	0.00	0.01	0.00
7.11	2.00	0.00	0.00	0.01	0.00	7.12	2.00	0.00	0.00	0.01	0.00
7.13	2.00	0.00	0.00	0.01	0.00	7.14	2.00	0.00	0.00	0.01	0.00
7.15	2.00	0.00	0.00	0.01	0.00	7.16	2.00	0.00	0.00	0.01	0.00
7.17	2.00	0.00	0.00	0.01	0.00	7.18	2.00	0.00	0.00	0.01	0.00
7.19	2.00	0.00	0.00	0.01	0.00	7.20	2.00	0.00	0.00	0.01	0.00
7.21	2.00	0.00	0.00	0.01	0.00	7.22	2.00	0.00	0.00	0.01	0.00
7.23	2.00	0.00	0.00	0.01	0.00	7.24	2.00	0.00	0.00	0.01	0.00
7.25	2.00	0.00	0.00	0.01	0.00	7.26	2.00	0.00	0.00	0.01	0.00
7.27	2.00	0.00	0.00	0.01	0.00	7.28	2.00	0.00	0.00	0.01	0.00
7.29	2.00	0.00	0.00	0.01	0.00	7.30	2.00	0.00	0.00	0.01	0.00
7.31	2.00	0.00	0.00	0.01	0.00	7.32	2.00	0.00	0.00	0.01	0.00
7.33	2.00	0.00	0.00	0.01	0.00	7.34	2.00	0.00	0.00	0.01	0.00
7.35	2.00	0.00	0.00	0.01	0.00	7.36	2.00	0.00	0.00	0.01	0.00
7.37	2.00	0.00	0.00	0.01	0.00	7.38	2.00	0.00	0.00	0.01	0.00
7.39	2.00	0.00	0.00	0.01	0.00	7.40	2.00	0.00	0.00	0.01	0.00
7.41	2.00	0.00	0.00	0.01	0.00	7.42	2.00	0.00	0.00	0.01	0.00
7.43	2.00	0.00	0.00	0.01	0.00	7.44	2.00	0.00	0.00	0.01	0.00
7.45	2.00	0.00	0.00	0.01	0.00	7.46	2.00	0.00	0.00	0.01	0.00
7.47	2.00	0.00	0.00	0.01	0.00	7.48	2.00	0.00	0.00	0.01	0.00
7.49	2.00	0.00	0.00	0.01	0.00	7.50	2.00	0.00	0.00	0.01	0.00
7.51	2.00	0.00	0.00	0.01	0.00	7.52	2.00	0.00	0.00	0.01	0.00
7.53	2.00	0.00	0.00	0.01	0.00	7.54	2.00	0.00	0.00	0.01	0.00
7.55	2.00	0.00	0.00	0.01	0.00	7.56	2.00	0.00	0.00	0.01	0.00
7.57	2.00	0.00	0.00	0.01	0.00	7.58	2.00	0.00	0.00	0.01	0.00
7.59	2.00	0.00	0.00	0.01	0.00	7.60	2.00	0.00	0.00	0.01	0.00
7.61	2.00	0.00	0.00	0.01	0.00	7.62	2.00	0.00	0.00	0.01	0.00
7.63	2.00	0.00	0.00	0.01	0.00	7.64	2.00	0.00	0.00	0.01	0.00
7.65	2.00	0.00	0.00	0.01	0.00	7.66	2.00	0.00	0.00	0.01	0.00
7.67	2.00	0.00	0.00	0.01	0.00	7.68	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
7.69	2.00	0.00	0.00	0.01	0.00	7.70	2.00	0.00	0.00	0.01	0.00
7.71	2.00	0.00	0.00	0.01	0.00	7.72	2.00	0.00	0.00	0.01	0.00
7.73	2.00	0.00	0.00	0.01	0.00	7.74	2.00	0.00	0.00	0.01	0.00
7.75	2.00	0.00	0.00	0.01	0.00	7.76	2.00	0.00	0.00	0.01	0.00
7.77	2.00	0.00	0.00	0.01	0.00	7.78	2.00	0.00	0.00	0.01	0.00
7.79	2.00	0.00	0.00	0.01	0.00	7.80	2.00	0.00	0.00	0.01	0.00
7.81	2.00	0.00	0.00	0.01	0.00	7.82	2.00	0.00	0.00	0.01	0.00
7.83	2.00	0.00	0.00	0.01	0.00	7.84	2.00	0.00	0.00	0.01	0.00
7.85	2.00	0.00	0.00	0.01	0.00	7.86	2.00	0.00	0.00	0.01	0.00
7.87	2.00	0.00	0.00	0.01	0.00	7.88	2.00	0.00	0.00	0.01	0.00
7.89	2.00	0.00	0.00	0.01	0.00	7.90	2.00	0.00	0.00	0.01	0.00
7.91	2.00	0.00	0.00	0.01	0.00	7.92	2.00	0.00	0.00	0.01	0.00
7.93	2.00	0.00	0.00	0.01	0.00	7.94	2.00	0.00	0.00	0.01	0.00
7.95	2.00	0.00	0.00	0.01	0.00	7.96	2.00	0.00	0.00	0.01	0.00
7.97	2.00	0.00	0.00	0.01	0.00	7.98	2.00	0.00	0.00	0.01	0.00
7.99	2.00	0.00	0.00	0.01	0.00	8.00	2.00	0.00	0.00	0.01	0.00
8.01	2.00	0.00	0.00	0.01	0.00	8.02	2.00	0.00	0.00	0.01	0.00
8.03	2.00	0.00	0.00	0.01	0.00	8.04	2.00	0.00	0.00	0.01	0.00
8.05	2.00	0.00	0.00	0.01	0.00	8.06	2.00	0.00	0.00	0.01	0.00
8.07	2.00	0.00	0.00	0.01	0.00	8.08	2.00	0.00	0.00	0.01	0.00
8.09	2.00	0.00	0.00	0.01	0.00	8.10	2.00	0.00	0.00	0.01	0.00
8.11	2.00	0.00	0.00	0.01	0.00	8.12	2.00	0.00	0.00	0.01	0.00
8.13	2.00	0.00	0.00	0.01	0.00	8.14	2.00	0.00	0.00	0.01	0.00
8.15	2.00	0.00	0.00	0.01	0.00	8.16	2.00	0.00	0.00	0.01	0.00
8.17	2.00	0.00	0.00	0.01	0.00	8.18	2.00	0.00	0.00	0.01	0.00
8.19	2.00	0.00	0.00	0.01	0.00	8.20	2.00	0.00	0.00	0.01	0.00
8.21	2.00	0.00	0.00	0.01	0.00	8.22	2.00	0.00	0.00	0.01	0.00
8.23	2.00	0.00	0.00	0.01	0.00	8.24	2.00	0.00	0.00	0.01	0.00
8.25	2.00	0.00	0.00	0.01	0.00	8.26	2.00	0.00	0.00	0.01	0.00
8.27	2.00	0.00	0.00	0.01	0.00	8.28	2.00	0.00	0.00	0.01	0.00
8.29	2.00	0.00	0.00	0.01	0.00	8.30	2.00	0.00	0.00	0.01	0.00
8.31	2.00	0.00	0.00	0.01	0.00	8.32	2.00	0.00	0.00	0.01	0.00
8.33	2.00	0.00	0.00	0.01	0.00	8.34	2.00	0.00	0.00	0.01	0.00
8.35	2.00	0.00	0.00	0.01	0.00	8.36	2.00	0.00	0.00	0.01	0.00
8.37	2.00	0.00	0.00	0.01	0.00	8.38	2.00	0.00	0.00	0.01	0.00
8.39	2.00	0.00	0.00	0.01	0.00	8.40	2.00	0.00	0.00	0.01	0.00
8.41	2.00	0.00	0.00	0.01	0.00	8.42	2.00	0.00	0.00	0.01	0.00
8.43	2.00	0.00	0.00	0.01	0.00	8.44	2.00	0.00	0.00	0.01	0.00
8.45	2.00	0.00	0.00	0.01	0.00	8.46	2.00	0.00	0.00	0.01	0.00
8.47	2.00	0.00	0.00	0.01	0.00	8.48	2.00	0.00	0.00	0.01	0.00
8.49	2.00	0.00	0.00	0.01	0.00	8.50	2.00	0.00	0.00	0.01	0.00
8.51	2.00	0.00	0.00	0.01	0.00	8.52	2.00	0.00	0.00	0.01	0.00
8.53	2.00	0.00	0.00	0.01	0.00	8.54	2.00	0.00	0.00	0.01	0.00
8.55	2.00	0.00	0.00	0.01	0.00	8.56	2.00	0.00	0.00	0.01	0.00
8.57	2.00	0.00	0.00	0.01	0.00	8.58	2.00	0.00	0.00	0.01	0.00
8.59	2.00	0.00	0.00	0.01	0.00	8.60	2.00	0.00	0.00	0.01	0.00
8.61	2.00	0.00	0.00	0.01	0.00	8.62	2.00	0.00	0.00	0.01	0.00
8.63	2.00	0.00	0.00	0.01	0.00	8.64	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.65	2.00	0.00	0.00	0.01	0.00	8.66	2.00	0.00	0.00	0.01	0.00
8.67	2.00	0.00	0.00	0.01	0.00	8.68	2.00	0.00	0.00	0.01	0.00
8.69	2.00	0.00	0.00	0.01	0.00	8.70	2.00	0.00	0.00	0.01	0.00
8.71	2.00	0.00	0.00	0.01	0.00	8.72	2.00	0.00	0.00	0.01	0.00
8.73	2.00	0.00	0.00	0.01	0.00	8.74	2.00	0.00	0.00	0.01	0.00
8.75	2.00	0.00	0.00	0.01	0.00	8.76	2.00	0.00	0.00	0.01	0.00
8.77	2.00	0.00	0.00	0.01	0.00	8.78	2.00	0.00	0.00	0.01	0.00
8.79	2.00	0.00	0.00	0.01	0.00	8.80	2.00	0.00	0.00	0.01	0.00
8.81	2.00	0.00	0.00	0.01	0.00	8.82	2.00	0.00	0.00	0.01	0.00
8.83	2.00	0.00	0.00	0.01	0.00	8.84	2.00	0.00	0.00	0.01	0.00
8.85	2.00	0.00	0.00	0.01	0.00	8.86	2.00	0.00	0.00	0.01	0.00
8.87	2.00	0.00	0.00	0.01	0.00	8.88	2.00	0.00	0.00	0.01	0.00
8.89	2.00	0.00	0.00	0.01	0.00	8.90	2.00	0.00	0.00	0.01	0.00
8.91	2.00	0.00	0.00	0.01	0.00	8.92	2.00	0.00	0.00	0.01	0.00
8.93	2.00	0.00	0.00	0.01	0.00	8.94	2.00	0.00	0.00	0.01	0.00
8.95	2.00	0.00	0.00	0.01	0.00	8.96	2.00	0.00	0.00	0.01	0.00
8.97	2.00	0.00	0.00	0.01	0.00	8.98	2.00	0.00	0.00	0.01	0.00
8.99	2.00	0.00	0.00	0.01	0.00	9.00	2.00	0.00	0.00	0.01	0.00
9.01	2.00	0.00	0.00	0.01	0.00	9.02	2.00	0.00	0.00	0.01	0.00
9.03	2.00	0.00	0.00	0.01	0.00	9.04	2.00	0.00	0.00	0.01	0.00
9.05	2.00	0.00	0.00	0.01	0.00	9.06	2.00	0.00	0.00	0.01	0.00
9.07	2.00	0.00	0.00	0.01	0.00	9.08	2.00	0.00	0.00	0.01	0.00
9.09	2.00	0.00	0.00	0.01	0.00	9.10	2.00	0.00	0.00	0.01	0.00
9.11	2.00	0.00	0.00	0.01	0.00	9.12	2.00	0.00	0.00	0.01	0.00
9.13	2.00	0.00	0.00	0.01	0.00	9.14	2.00	0.00	0.00	0.01	0.00
9.15	2.00	0.00	0.00	0.01	0.00	9.16	2.00	0.00	0.00	0.01	0.00
9.17	2.00	0.00	0.00	0.01	0.00	9.18	2.00	0.00	0.00	0.01	0.00
9.19	2.00	0.00	0.00	0.01	0.00	9.20	2.00	0.00	0.00	0.01	0.00
9.21	2.00	0.00	0.00	0.01	0.00	9.22	2.00	0.00	0.00	0.01	0.00
9.23	2.00	0.00	0.00	0.01	0.00	9.24	2.00	0.00	0.00	0.01	0.00
9.25	2.00	0.00	0.00	0.01	0.00	9.26	2.00	0.00	0.00	0.01	0.00
9.27	2.00	0.00	0.00	0.01	0.00	9.28	2.00	0.00	0.00	0.01	0.00
9.29	2.00	0.00	0.00	0.01	0.00	9.30	2.00	0.00	0.00	0.01	0.00
9.31	2.00	0.00	0.00	0.01	0.00	9.32	2.00	0.00	0.00	0.01	0.00
9.33	2.00	0.00	0.00	0.01	0.00	9.34	2.00	0.00	0.00	0.01	0.00
9.35	2.00	0.00	0.00	0.01	0.00	9.36	2.00	0.00	0.00	0.01	0.00
9.37	2.00	0.00	0.00	0.01	0.00	9.38	2.00	0.00	0.00	0.01	0.00
9.39	2.00	0.00	0.00	0.01	0.00	9.40	2.00	0.00	0.00	0.01	0.00
9.41	2.00	0.00	0.00	0.01	0.00	9.42	2.00	0.00	0.00	0.01	0.00
9.43	2.00	0.00	0.00	0.01	0.00	9.44	2.00	0.00	0.00	0.01	0.00
9.45	2.00	0.00	0.00	0.01	0.00	9.46	2.00	0.00	0.00	0.01	0.00
9.47	2.00	0.00	0.00	0.01	0.00	9.48	2.00	0.00	0.00	0.01	0.00
9.49	2.00	0.00	0.00	0.01	0.00	9.50	2.00	0.00	0.00	0.01	0.00
9.51	2.00	0.00	0.00	0.01	0.00	9.52	2.00	0.00	0.00	0.01	0.00
9.53	2.00	0.00	0.00	0.01	0.00	9.54	2.00	0.00	0.00	0.01	0.00
9.55	2.00	0.00	0.00	0.01	0.00	9.56	2.00	0.00	0.00	0.01	0.00
9.57	2.00	0.00	0.00	0.01	0.00	9.58	2.00	0.00	0.00	0.01	0.00
9.59	2.00	0.00	0.00	0.01	0.00	9.60	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
9.61	2.00	0.00	0.00	0.01	0.00	9.62	2.00	0.00	0.00	0.01	0.00
9.63	2.00	0.00	0.00	0.01	0.00	9.64	2.00	0.00	0.00	0.01	0.00
9.65	2.00	0.00	0.00	0.01	0.00	9.66	2.00	0.00	0.00	0.01	0.00
9.67	2.00	0.00	0.00	0.01	0.00	9.68	2.00	0.00	0.00	0.01	0.00
9.69	2.00	0.00	0.00	0.01	0.00	9.70	2.00	0.00	0.00	0.01	0.00
9.71	2.00	0.00	0.00	0.01	0.00	9.72	2.00	0.00	0.00	0.01	0.00
9.73	2.00	0.00	0.00	0.01	0.00	9.74	2.00	0.00	0.00	0.01	0.00
9.75	2.00	0.00	0.00	0.01	0.00	9.76	2.00	0.00	0.00	0.01	0.00
9.77	2.00	0.00	0.00	0.01	0.00	9.78	2.00	0.00	0.00	0.01	0.00
9.79	2.00	0.00	0.00	0.01	0.00	9.80	2.00	0.00	0.00	0.01	0.00
9.81	2.00	0.00	0.00	0.01	0.00	9.82	2.00	0.00	0.00	0.01	0.00
9.83	2.00	0.00	0.00	0.01	0.00	9.84	2.00	0.00	0.00	0.01	0.00
9.85	2.00	0.00	0.00	0.01	0.00	9.86	2.00	0.00	0.00	0.01	0.00
9.87	2.00	0.00	0.00	0.01	0.00	9.88	2.00	0.00	0.00	0.01	0.00
9.89	2.00	0.00	0.00	0.01	0.00	9.90	2.00	0.00	0.00	0.01	0.00
9.91	2.00	0.00	0.00	0.01	0.00	9.92	2.00	0.00	0.00	0.01	0.00
9.93	2.00	0.00	0.00	0.01	0.00	9.94	2.00	0.00	0.00	0.01	0.00
9.95	2.00	0.00	0.00	0.01	0.00	9.96	2.00	0.00	0.00	0.01	0.00
9.97	2.00	0.00	0.00	0.01	0.00	9.98	2.00	0.00	0.00	0.01	0.00
9.99	2.00	0.00	0.00	0.01	0.00	10.00	2.00	0.00	0.00	0.01	0.00
10.01	2.00	0.00	0.00	0.01	0.00	10.02	2.00	0.00	0.00	0.01	0.00
10.03	2.00	0.00	0.00	0.01	0.00	10.04	2.00	0.00	0.00	0.01	0.00
10.05	2.00	0.00	0.00	0.01	0.00	10.06	2.00	0.00	0.00	0.01	0.00
10.07	2.00	0.00	0.00	0.01	0.00	10.08	2.00	0.00	0.00	0.01	0.00
10.09	2.00	0.00	0.00	0.01	0.00	10.10	2.00	0.00	0.00	0.01	0.00
10.11	2.00	0.00	0.00	0.01	0.00	10.12	2.00	0.00	0.00	0.01	0.00
10.13	2.00	0.00	0.00	0.01	0.00	10.14	2.00	0.00	0.00	0.01	0.00
10.15	2.00	0.00	0.00	0.01	0.00	10.16	2.00	0.00	0.00	0.01	0.00
10.17	2.00	0.00	0.00	0.01	0.00	10.18	2.00	0.00	0.00	0.01	0.00
10.19	2.00	0.00	0.00	0.01	0.00	10.20	2.00	0.00	0.00	0.01	0.00
10.21	2.00	0.00	0.00	0.01	0.00	10.22	2.00	0.00	0.00	0.01	0.00
10.23	2.00	0.00	0.00	0.01	0.00	10.24	2.00	0.00	0.00	0.01	0.00
10.25	2.00	0.00	0.00	0.01	0.00	10.26	2.00	0.00	0.00	0.01	0.00
10.27	2.00	0.00	0.00	0.01	0.00	10.28	2.00	0.00	0.00	0.01	0.00
10.29	2.00	0.00	0.00	0.01	0.00	10.30	2.00	0.00	0.00	0.01	0.00
10.31	2.00	0.00	0.00	0.01	0.00	10.32	2.00	0.00	0.00	0.01	0.00
10.33	2.00	0.00	0.00	0.01	0.00	10.34	2.00	0.00	0.00	0.01	0.00
10.35	2.00	0.00	0.00	0.01	0.00	10.36	2.00	0.00	0.00	0.01	0.00
10.37	2.00	0.00	0.00	0.01	0.00	10.38	2.00	0.00	0.00	0.01	0.00
10.39	2.00	0.00	0.00	0.01	0.00	10.40	2.00	0.00	0.00	0.01	0.00
10.41	2.00	0.00	0.00	0.01	0.00	10.42	2.00	0.00	0.00	0.01	0.00
10.43	2.00	0.00	0.00	0.01	0.00	10.44	2.00	0.00	0.00	0.01	0.00
10.45	2.00	0.00	0.00	0.01	0.00	10.46	2.00	0.00	0.00	0.01	0.00
10.47	2.00	0.00	0.00	0.01	0.00	10.48	2.00	0.00	0.00	0.01	0.00
10.49	2.00	0.00	0.00	0.01	0.00	10.50	2.00	0.00	0.00	0.01	0.00
10.51	2.00	0.00	0.00	0.01	0.00	10.52	2.00	0.00	0.00	0.01	0.00
10.53	2.00	0.00	0.00	0.01	0.00	10.54	2.00	0.00	0.00	0.01	0.00
10.55	2.00	0.00	0.00	0.01	0.00	10.56	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.57	2.00	0.00	0.00	0.01	0.00	10.58	2.00	0.00	0.00	0.01	0.00
10.59	2.00	0.00	0.00	0.01	0.00	10.60	2.00	0.00	0.00	0.01	0.00
10.61	2.00	0.00	0.00	0.01	0.00	10.62	2.00	0.00	0.00	0.01	0.00
10.63	2.00	0.00	0.00	0.01	0.00	10.64	2.00	0.00	0.00	0.01	0.00
10.65	2.00	0.00	0.00	0.01	0.00	10.66	2.00	0.00	0.00	0.01	0.00
10.67	2.00	0.00	0.00	0.01	0.00	10.68	2.00	0.00	0.00	0.01	0.00
10.69	2.00	0.00	0.00	0.01	0.00	10.70	2.00	0.00	0.00	0.01	0.00
10.71	2.00	0.00	0.00	0.01	0.00	10.72	2.00	0.00	0.00	0.01	0.00
10.73	2.00	0.00	0.00	0.01	0.00	10.74	2.00	0.00	0.00	0.01	0.00
10.75	2.00	0.00	0.00	0.01	0.00	10.76	2.00	0.00	0.00	0.01	0.00
10.77	2.00	0.00	0.00	0.01	0.00	10.78	2.00	0.00	0.00	0.01	0.00
10.79	2.00	0.00	0.00	0.01	0.00	10.80	2.00	0.00	0.00	0.01	0.00
10.81	2.00	0.00	0.00	0.01	0.00	10.82	2.00	0.00	0.00	0.01	0.00
10.83	2.00	0.00	0.00	0.01	0.00	10.84	2.00	0.00	0.00	0.01	0.00
10.85	2.00	0.00	0.00	0.01	0.00	10.86	2.00	0.00	0.00	0.01	0.00
10.87	2.00	0.00	0.00	0.01	0.00	10.88	2.00	0.00	0.00	0.01	0.00
10.89	2.00	0.00	0.00	0.01	0.00	10.90	2.00	0.00	0.00	0.01	0.00
10.91	2.00	0.00	0.00	0.01	0.00	10.92	2.00	0.00	0.00	0.01	0.00
10.93	2.00	0.00	0.00	0.01	0.00	10.94	2.00	0.00	0.00	0.01	0.00
10.95	2.00	0.00	0.00	0.01	0.00	10.96	2.00	0.00	0.00	0.01	0.00
10.97	2.00	0.00	0.00	0.01	0.00	10.98	2.00	0.00	0.00	0.01	0.00
10.99	2.00	0.00	0.00	0.01	0.00	11.00	2.00	0.00	0.00	0.01	0.00
11.01	2.00	0.00	0.00	0.01	0.00	11.02	2.00	0.00	0.00	0.01	0.00
11.03	2.00	0.00	0.00	0.01	0.00	11.04	2.00	0.00	0.00	0.01	0.00
11.05	2.00	0.00	0.00	0.01	0.00	11.06	2.00	0.00	0.00	0.01	0.00
11.07	2.00	0.00	0.00	0.01	0.00	11.08	2.00	0.00	0.00	0.01	0.00
11.09	2.00	0.00	0.00	0.01	0.00	11.10	2.00	0.00	0.00	0.01	0.00
11.11	2.00	0.00	0.00	0.01	0.00	11.12	2.00	0.00	0.00	0.01	0.00
11.13	2.00	0.00	0.00	0.01	0.00	11.14	2.00	0.00	0.00	0.01	0.00
11.15	2.00	0.00	0.00	0.01	0.00	11.16	2.00	0.00	0.00	0.01	0.00
11.17	2.00	0.00	0.00	0.01	0.00	11.18	2.00	0.00	0.00	0.01	0.00
11.19	2.00	0.00	0.00	0.01	0.00	11.20	2.00	0.00	0.00	0.01	0.00
11.21	2.00	0.00	0.00	0.01	0.00	11.22	2.00	0.00	0.00	0.01	0.00
11.23	2.00	0.00	0.00	0.01	0.00	11.24	2.00	0.00	0.00	0.01	0.00
11.25	2.00	0.00	0.00	0.01	0.00	11.26	2.00	0.00	0.00	0.01	0.00
11.27	2.00	0.00	0.00	0.01	0.00	11.28	2.00	0.00	0.00	0.01	0.00
11.29	2.00	0.00	0.00	0.01	0.00	11.30	2.00	0.00	0.00	0.01	0.00
11.31	2.00	0.00	0.00	0.01	0.00	11.32	2.00	0.00	0.00	0.01	0.00
11.33	2.00	0.00	0.00	0.01	0.00	11.34	2.00	0.00	0.00	0.01	0.00
11.35	2.00	0.00	0.00	0.01	0.00	11.36	2.00	0.00	0.00	0.01	0.00
11.37	2.00	0.00	0.00	0.01	0.00	11.38	2.00	0.00	0.00	0.01	0.00
11.39	2.00	0.00	0.00	0.01	0.00	11.40	2.00	0.00	0.00	0.01	0.00
11.41	2.00	0.00	0.00	0.01	0.00	11.42	2.00	0.00	0.00	0.01	0.00
11.43	2.00	0.00	0.00	0.01	0.00	11.44	2.00	0.00	0.00	0.01	0.00
11.45	2.00	0.00	0.00	0.01	0.00	11.46	2.00	0.00	0.00	0.01	0.00
11.47	2.00	0.00	0.00	0.01	0.00	11.48	2.00	0.00	0.00	0.01	0.00
11.49	2.00	0.00	0.00	0.01	0.00	11.50	2.00	0.00	0.00	0.01	0.00
11.51	2.00	0.00	0.00	0.01	0.00	11.52	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.53	2.00	0.00	0.00	0.01	0.00	11.54	0.51	0.49	0.49	0.01	0.02
11.55	0.52	0.48	0.50	0.01	0.02	11.56	0.52	0.48	0.50	0.01	0.02
11.57	0.52	0.48	0.50	0.01	0.02	11.58	0.51	0.49	0.50	0.01	0.02
11.59	0.51	0.49	0.49	0.01	0.02	11.60	0.51	0.49	0.49	0.01	0.02
11.61	0.50	0.50	0.48	0.01	0.02	11.62	0.49	0.51	0.47	0.01	0.02
11.63	0.49	0.51	0.46	0.01	0.02	11.64	0.48	0.52	0.46	0.01	0.02
11.65	0.48	0.52	0.46	0.01	0.02	11.66	0.48	0.52	0.46	0.01	0.02
11.67	0.48	0.52	0.46	0.01	0.02	11.68	0.49	0.51	0.46	0.01	0.02
11.69	0.49	0.51	0.46	0.01	0.02	11.70	0.49	0.51	0.47	0.01	0.02
11.71	0.49	0.51	0.47	0.01	0.02	11.72	0.49	0.51	0.47	0.01	0.02
11.73	0.49	0.51	0.47	0.01	0.02	11.74	0.49	0.51	0.47	0.01	0.02
11.75	2.00	0.00	0.00	0.01	0.00	11.76	2.00	0.00	0.00	0.01	0.00
11.77	2.00	0.00	0.00	0.01	0.00	11.78	2.00	0.00	0.00	0.01	0.00
11.79	2.00	0.00	0.00	0.01	0.00	11.80	2.00	0.00	0.00	0.01	0.00
11.81	2.00	0.00	0.00	0.01	0.00	11.82	2.00	0.00	0.00	0.01	0.00
11.83	2.00	0.00	0.00	0.01	0.00	11.84	2.00	0.00	0.00	0.01	0.00
11.85	2.00	0.00	0.00	0.01	0.00	11.86	2.00	0.00	0.00	0.01	0.00
11.87	2.00	0.00	0.00	0.01	0.00	11.88	0.51	0.49	0.49	0.01	0.02
11.89	0.50	0.50	0.48	0.01	0.02	11.90	0.50	0.50	0.48	0.01	0.02
11.91	0.50	0.50	0.48	0.01	0.02	11.92	0.50	0.50	0.48	0.01	0.02
11.93	0.50	0.50	0.48	0.01	0.02	11.94	0.50	0.50	0.48	0.01	0.02
11.95	0.50	0.50	0.48	0.01	0.02	11.96	0.50	0.50	0.47	0.01	0.02
11.97	0.49	0.51	0.47	0.01	0.02	11.98	2.00	0.00	0.00	0.01	0.00
11.99	2.00	0.00	0.00	0.01	0.00	12.00	2.00	0.00	0.00	0.01	0.00
12.01	2.00	0.00	0.00	0.01	0.00	12.02	2.00	0.00	0.00	0.01	0.00
12.03	2.00	0.00	0.00	0.01	0.00	12.04	2.00	0.00	0.00	0.01	0.00
12.05	2.00	0.00	0.00	0.01	0.00	12.06	2.00	0.00	0.00	0.01	0.00
12.07	2.00	0.00	0.00	0.01	0.00	12.08	2.00	0.00	0.00	0.01	0.00
12.09	2.00	0.00	0.00	0.01	0.00	12.10	2.00	0.00	0.00	0.01	0.00
12.11	2.00	0.00	0.00	0.01	0.00	12.12	2.00	0.00	0.00	0.01	0.00
12.13	2.00	0.00	0.00	0.01	0.00	12.14	2.00	0.00	0.00	0.01	0.00
12.15	2.00	0.00	0.00	0.01	0.00	12.16	2.00	0.00	0.00	0.01	0.00
12.17	2.00	0.00	0.00	0.01	0.00	12.18	2.00	0.00	0.00	0.01	0.00
12.19	2.00	0.00	0.00	0.01	0.00	12.20	2.00	0.00	0.00	0.01	0.00
12.21	2.00	0.00	0.00	0.01	0.00	12.22	2.00	0.00	0.00	0.01	0.00
12.23	2.00	0.00	0.00	0.01	0.00	12.24	2.00	0.00	0.00	0.01	0.00
12.25	2.00	0.00	0.00	0.01	0.00	12.26	2.00	0.00	0.00	0.01	0.00
12.27	2.00	0.00	0.00	0.01	0.00	12.28	2.00	0.00	0.00	0.01	0.00
12.29	2.00	0.00	0.00	0.01	0.00	12.30	2.00	0.00	0.00	0.01	0.00
12.31	2.00	0.00	0.00	0.01	0.00	12.32	2.00	0.00	0.00	0.01	0.00
12.33	2.00	0.00	0.00	0.01	0.00	12.34	2.00	0.00	0.00	0.01	0.00
12.35	2.00	0.00	0.00	0.01	0.00	12.36	2.00	0.00	0.00	0.01	0.00
12.37	2.00	0.00	0.00	0.01	0.00	12.38	2.00	0.00	0.00	0.01	0.00
12.39	2.00	0.00	0.00	0.01	0.00	12.40	2.00	0.00	0.00	0.01	0.00
12.41	2.00	0.00	0.00	0.01	0.00	12.42	2.00	0.00	0.00	0.01	0.00
12.43	2.00	0.00	0.00	0.01	0.00	12.44	2.00	0.00	0.00	0.01	0.00
12.45	2.00	0.00	0.00	0.01	0.00	12.46	2.00	0.00	0.00	0.01	0.00
12.47	2.00	0.00	0.00	0.01	0.00	12.48	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.49	2.00	0.00	0.00	0.01	0.00	12.50	2.00	0.00	0.00	0.01	0.00
12.51	2.00	0.00	0.00	0.01	0.00	12.52	2.00	0.00	0.00	0.01	0.00
12.53	2.00	0.00	0.00	0.01	0.00	12.54	2.00	0.00	0.00	0.01	0.00
12.55	2.00	0.00	0.00	0.01	0.00	12.56	2.00	0.00	0.00	0.01	0.00
12.57	2.00	0.00	0.00	0.01	0.00	12.58	2.00	0.00	0.00	0.01	0.00
12.59	2.00	0.00	0.00	0.01	0.00	12.60	2.00	0.00	0.00	0.01	0.00
12.61	2.00	0.00	0.00	0.01	0.00	12.62	2.00	0.00	0.00	0.01	0.00
12.63	2.00	0.00	0.00	0.01	0.00	12.64	2.00	0.00	0.00	0.01	0.00
12.65	2.00	0.00	0.00	0.01	0.00	12.66	2.00	0.00	0.00	0.01	0.00
12.67	2.00	0.00	0.00	0.01	0.00	12.68	2.00	0.00	0.00	0.01	0.00
12.69	2.00	0.00	0.00	0.01	0.00	12.70	2.00	0.00	0.00	0.01	0.00
12.71	2.00	0.00	0.00	0.01	0.00	12.72	2.00	0.00	0.00	0.01	0.00
12.73	2.00	0.00	0.00	0.01	0.00	12.74	2.00	0.00	0.00	0.01	0.00
12.75	2.00	0.00	0.00	0.01	0.00	12.76	2.00	0.00	0.00	0.01	0.00
12.77	2.00	0.00	0.00	0.01	0.00	12.78	2.00	0.00	0.00	0.01	0.00
12.79	2.00	0.00	0.00	0.01	0.00	12.80	2.00	0.00	0.00	0.01	0.00
12.81	2.00	0.00	0.00	0.01	0.00	12.82	2.00	0.00	0.00	0.01	0.00
12.83	2.00	0.00	0.00	0.01	0.00	12.84	2.00	0.00	0.00	0.01	0.00
12.85	2.00	0.00	0.00	0.01	0.00	12.86	2.00	0.00	0.00	0.01	0.00
12.87	2.00	0.00	0.00	0.01	0.00	12.88	2.00	0.00	0.00	0.01	0.00
12.89	2.00	0.00	0.00	0.01	0.00	12.90	2.00	0.00	0.00	0.01	0.00
12.91	2.00	0.00	0.00	0.01	0.00	12.92	2.00	0.00	0.00	0.01	0.00
12.93	2.00	0.00	0.00	0.01	0.00	12.94	2.00	0.00	0.00	0.01	0.00
12.95	2.00	0.00	0.00	0.01	0.00	12.96	2.00	0.00	0.00	0.01	0.00
12.97	2.00	0.00	0.00	0.01	0.00	12.98	2.00	0.00	0.00	0.01	0.00
12.99	2.00	0.00	0.00	0.01	0.00	13.00	2.00	0.00	0.00	0.01	0.00
13.01	2.00	0.00	0.00	0.01	0.00	13.02	2.00	0.00	0.00	0.01	0.00
13.03	2.00	0.00	0.00	0.01	0.00	13.04	2.00	0.00	0.00	0.01	0.00
13.05	2.00	0.00	0.00	0.01	0.00	13.06	2.00	0.00	0.00	0.01	0.00
13.07	2.00	0.00	0.00	0.01	0.00	13.08	2.00	0.00	0.00	0.01	0.00
13.09	2.00	0.00	0.00	0.01	0.00	13.10	2.00	0.00	0.00	0.01	0.00
13.11	2.00	0.00	0.00	0.01	0.00	13.12	2.00	0.00	0.00	0.01	0.00
13.13	2.00	0.00	0.00	0.01	0.00	13.14	2.00	0.00	0.00	0.01	0.00
13.15	2.00	0.00	0.00	0.01	0.00	13.16	2.00	0.00	0.00	0.01	0.00
13.17	2.00	0.00	0.00	0.01	0.00	13.18	2.00	0.00	0.00	0.01	0.00
13.19	2.00	0.00	0.00	0.01	0.00	13.20	2.00	0.00	0.00	0.01	0.00
13.21	2.00	0.00	0.00	0.01	0.00	13.22	2.00	0.00	0.00	0.01	0.00
13.23	2.00	0.00	0.00	0.01	0.00	13.24	2.00	0.00	0.00	0.01	0.00
13.25	2.00	0.00	0.00	0.01	0.00	13.26	2.00	0.00	0.00	0.01	0.00
13.27	2.00	0.00	0.00	0.01	0.00	13.28	2.00	0.00	0.00	0.01	0.00
13.29	2.00	0.00	0.00	0.01	0.00	13.30	2.00	0.00	0.00	0.01	0.00
13.31	2.00	0.00	0.00	0.01	0.00	13.32	2.00	0.00	0.00	0.01	0.00
13.33	2.00	0.00	0.00	0.01	0.00	13.34	2.00	0.00	0.00	0.01	0.00
13.35	2.00	0.00	0.00	0.01	0.00	13.36	2.00	0.00	0.00	0.01	0.00
13.37	2.00	0.00	0.00	0.01	0.00	13.38	2.00	0.00	0.00	0.01	0.00
13.39	2.00	0.00	0.00	0.01	0.00	13.40	2.00	0.00	0.00	0.01	0.00
13.41	2.00	0.00	0.00	0.01	0.00	13.42	2.00	0.00	0.00	0.01	0.00
13.43	2.00	0.00	0.00	0.01	0.00	13.44	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.45	2.00	0.00	0.00	0.01	0.00	13.46	2.00	0.00	0.00	0.01	0.00
13.47	2.00	0.00	0.00	0.01	0.00	13.48	2.00	0.00	0.00	0.01	0.00
13.49	2.00	0.00	0.00	0.01	0.00	13.50	2.00	0.00	0.00	0.01	0.00
13.51	2.00	0.00	0.00	0.01	0.00	13.52	2.00	0.00	0.00	0.01	0.00
13.53	2.00	0.00	0.00	0.01	0.00	13.54	2.00	0.00	0.00	0.01	0.00
13.55	2.00	0.00	0.00	0.01	0.00	13.56	2.00	0.00	0.00	0.01	0.00
13.57	2.00	0.00	0.00	0.01	0.00	13.58	2.00	0.00	0.00	0.01	0.00
13.59	2.00	0.00	0.00	0.01	0.00	13.60	2.00	0.00	0.00	0.01	0.00
13.61	2.00	0.00	0.00	0.01	0.00	13.62	2.00	0.00	0.00	0.01	0.00
13.63	2.00	0.00	0.00	0.01	0.00	13.64	2.00	0.00	0.00	0.01	0.00
13.65	2.00	0.00	0.00	0.01	0.00	13.66	2.00	0.00	0.00	0.01	0.00
13.67	2.00	0.00	0.00	0.01	0.00	13.68	2.00	0.00	0.00	0.01	0.00
13.69	2.00	0.00	0.00	0.01	0.00	13.70	2.00	0.00	0.00	0.01	0.00
13.71	2.00	0.00	0.00	0.01	0.00	13.72	2.00	0.00	0.00	0.01	0.00
13.73	2.00	0.00	0.00	0.01	0.00	13.74	2.00	0.00	0.00	0.01	0.00
13.75	2.00	0.00	0.00	0.01	0.00	13.76	2.00	0.00	0.00	0.01	0.00
13.77	2.00	0.00	0.00	0.01	0.00	13.78	2.00	0.00	0.00	0.01	0.00
13.79	2.00	0.00	0.00	0.01	0.00	13.80	2.00	0.00	0.00	0.01	0.00
13.81	2.00	0.00	0.00	0.01	0.00	13.82	2.00	0.00	0.00	0.01	0.00
13.83	2.00	0.00	0.00	0.01	0.00	13.84	2.00	0.00	0.00	0.01	0.00
13.85	2.00	0.00	0.00	0.01	0.00	13.86	2.00	0.00	0.00	0.01	0.00
13.87	2.00	0.00	0.00	0.01	0.00	13.88	2.00	0.00	0.00	0.01	0.00
13.89	2.00	0.00	0.00	0.01	0.00	13.90	2.00	0.00	0.00	0.01	0.00
13.91	2.00	0.00	0.00	0.01	0.00	13.92	2.00	0.00	0.00	0.01	0.00
13.93	2.00	0.00	0.00	0.01	0.00	13.94	2.00	0.00	0.00	0.01	0.00
13.95	2.00	0.00	0.00	0.01	0.00	13.96	2.00	0.00	0.00	0.01	0.00
13.97	2.00	0.00	0.00	0.01	0.00	13.98	2.00	0.00	0.00	0.01	0.00
13.99	2.00	0.00	0.00	0.01	0.00	14.00	2.00	0.00	0.00	0.01	0.00
14.01	2.00	0.00	0.00	0.01	0.00	14.02	2.00	0.00	0.00	0.01	0.00
14.03	2.00	0.00	0.00	0.01	0.00	14.04	2.00	0.00	0.00	0.01	0.00
14.05	2.00	0.00	0.00	0.01	0.00	14.06	2.00	0.00	0.00	0.01	0.00
14.07	2.00	0.00	0.00	0.01	0.00	14.08	2.00	0.00	0.00	0.01	0.00
14.09	2.00	0.00	0.00	0.01	0.00	14.10	2.00	0.00	0.00	0.01	0.00
14.11	2.00	0.00	0.00	0.01	0.00	14.12	2.00	0.00	0.00	0.01	0.00
14.13	2.00	0.00	0.00	0.01	0.00	14.14	2.00	0.00	0.00	0.01	0.00
14.15	2.00	0.00	0.00	0.01	0.00	14.16	2.00	0.00	0.00	0.01	0.00
14.17	2.00	0.00	0.00	0.01	0.00	14.18	2.00	0.00	0.00	0.01	0.00
14.19	2.00	0.00	0.00	0.01	0.00	14.20	2.00	0.00	0.00	0.01	0.00
14.21	2.00	0.00	0.00	0.01	0.00	14.22	2.00	0.00	0.00	0.01	0.00
14.23	2.00	0.00	0.00	0.01	0.00	14.24	2.00	0.00	0.00	0.01	0.00
14.25	2.00	0.00	0.00	0.01	0.00	14.26	2.00	0.00	0.00	0.01	0.00
14.27	2.00	0.00	0.00	0.01	0.00	14.28	2.00	0.00	0.00	0.01	0.00
14.29	2.00	0.00	0.00	0.01	0.00	14.30	2.00	0.00	0.00	0.01	0.00
14.31	2.00	0.00	0.00	0.01	0.00	14.32	2.00	0.00	0.00	0.01	0.00
14.33	2.00	0.00	0.00	0.01	0.00	14.34	2.00	0.00	0.00	0.01	0.00
14.35	2.00	0.00	0.00	0.01	0.00	14.36	2.00	0.00	0.00	0.01	0.00
14.37	2.00	0.00	0.00	0.01	0.00	14.38	2.00	0.00	0.00	0.01	0.00
14.39	2.00	0.00	0.00	0.01	0.00	14.40	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.41	2.00	0.00	0.00	0.01	0.00	14.42	2.00	0.00	0.00	0.01	0.00
14.43	2.00	0.00	0.00	0.01	0.00	14.44	2.00	0.00	0.00	0.01	0.00
14.45	2.00	0.00	0.00	0.01	0.00	14.46	2.00	0.00	0.00	0.01	0.00
14.47	2.00	0.00	0.00	0.01	0.00	14.48	2.00	0.00	0.00	0.01	0.00
14.49	2.00	0.00	0.00	0.01	0.00	14.50	2.00	0.00	0.00	0.01	0.00
14.51	2.00	0.00	0.00	0.01	0.00	14.52	2.00	0.00	0.00	0.01	0.00
14.53	2.00	0.00	0.00	0.01	0.00	14.54	2.00	0.00	0.00	0.01	0.00
14.55	2.00	0.00	0.00	0.01	0.00	14.56	2.00	0.00	0.00	0.01	0.00
14.57	2.00	0.00	0.00	0.01	0.00	14.58	2.00	0.00	0.00	0.01	0.00
14.59	2.00	0.00	0.00	0.01	0.00	14.60	2.00	0.00	0.00	0.01	0.00
14.61	2.00	0.00	0.00	0.01	0.00	14.62	2.00	0.00	0.00	0.01	0.00
14.63	2.00	0.00	0.00	0.01	0.00	14.64	2.00	0.00	0.00	0.01	0.00
14.65	2.00	0.00	0.00	0.01	0.00	14.66	2.00	0.00	0.00	0.01	0.00
14.67	2.00	0.00	0.00	0.01	0.00	14.68	2.00	0.00	0.00	0.01	0.00
14.69	2.00	0.00	0.00	0.01	0.00	14.70	2.00	0.00	0.00	0.01	0.00
14.71	2.00	0.00	0.00	0.01	0.00	14.72	2.00	0.00	0.00	0.01	0.00
14.73	2.00	0.00	0.00	0.01	0.00	14.74	2.00	0.00	0.00	0.01	0.00
14.75	2.00	0.00	0.00	0.01	0.00	14.76	2.00	0.00	0.00	0.01	0.00
14.77	2.00	0.00	0.00	0.01	0.00	14.78	2.00	0.00	0.00	0.01	0.00
14.79	2.00	0.00	0.00	0.01	0.00	14.80	2.00	0.00	0.00	0.01	0.00
14.81	2.00	0.00	0.00	0.01	0.00	14.82	2.00	0.00	0.00	0.01	0.00
14.83	2.00	0.00	0.00	0.01	0.00	14.84	2.00	0.00	0.00	0.01	0.00
14.85	2.00	0.00	0.00	0.01	0.00	14.86	2.00	0.00	0.00	0.01	0.00
14.87	2.00	0.00	0.00	0.01	0.00	14.88	2.00	0.00	0.00	0.01	0.00
14.89	2.00	0.00	0.00	0.01	0.00	14.90	2.00	0.00	0.00	0.01	0.00
14.91	2.00	0.00	0.00	0.01	0.00	14.92	2.00	0.00	0.00	0.01	0.00
14.93	2.00	0.00	0.00	0.01	0.00	14.94	2.00	0.00	0.00	0.01	0.00
14.95	2.00	0.00	0.00	0.01	0.00	14.96	2.00	0.00	0.00	0.01	0.00
14.97	2.00	0.00	0.00	0.01	0.00	14.98	2.00	0.00	0.00	0.01	0.00
14.99	2.00	0.00	0.00	0.01	0.00	15.00	2.00	0.00	0.00	0.01	0.00
15.01	2.00	0.00	0.00	0.01	0.00	15.02	2.00	0.00	0.00	0.01	0.00
15.03	2.00	0.00	0.00	0.01	0.00	15.04	2.00	0.00	0.00	0.01	0.00
15.05	2.00	0.00	0.00	0.01	0.00	15.06	2.00	0.00	0.00	0.01	0.00
15.07	2.00	0.00	0.00	0.01	0.00	15.08	2.00	0.00	0.00	0.01	0.00
15.09	2.00	0.00	0.00	0.01	0.00	15.10	2.00	0.00	0.00	0.01	0.00
15.11	2.00	0.00	0.00	0.01	0.00	15.12	2.00	0.00	0.00	0.01	0.00
15.13	2.00	0.00	0.00	0.01	0.00	15.14	2.00	0.00	0.00	0.01	0.00
15.15	2.00	0.00	0.00	0.01	0.00	15.16	2.00	0.00	0.00	0.01	0.00
15.17	2.00	0.00	0.00	0.01	0.00	15.18	2.00	0.00	0.00	0.01	0.00
15.19	2.00	0.00	0.00	0.01	0.00	15.20	2.00	0.00	0.00	0.01	0.00
15.21	2.00	0.00	0.00	0.01	0.00	15.22	2.00	0.00	0.00	0.01	0.00
15.23	2.00	0.00	0.00	0.01	0.00	15.24	2.00	0.00	0.00	0.01	0.00
15.25	2.00	0.00	0.00	0.01	0.00	15.26	2.00	0.00	0.00	0.01	0.00
15.27	2.00	0.00	0.00	0.01	0.00	15.28	2.00	0.00	0.00	0.01	0.00
15.29	2.00	0.00	0.00	0.01	0.00	15.30	2.00	0.00	0.00	0.01	0.00
15.31	2.00	0.00	0.00	0.01	0.00	15.32	2.00	0.00	0.00	0.01	0.00
15.33	2.00	0.00	0.00	0.01	0.00	15.34	2.00	0.00	0.00	0.01	0.00
15.35	2.00	0.00	0.00	0.01	0.00	15.36	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.37	2.00	0.00	0.00	0.01	0.00	15.38	2.00	0.00	0.00	0.01	0.00
15.39	2.00	0.00	0.00	0.01	0.00	15.40	2.00	0.00	0.00	0.01	0.00
15.41	2.00	0.00	0.00	0.01	0.00	15.42	2.00	0.00	0.00	0.01	0.00
15.43	2.00	0.00	0.00	0.01	0.00	15.44	2.00	0.00	0.00	0.01	0.00
15.45	2.00	0.00	0.00	0.01	0.00	15.46	2.00	0.00	0.00	0.01	0.00
15.47	2.00	0.00	0.00	0.01	0.00	15.48	2.00	0.00	0.00	0.01	0.00
15.49	2.00	0.00	0.00	0.01	0.00	15.50	2.00	0.00	0.00	0.01	0.00
15.51	2.00	0.00	0.00	0.01	0.00	15.52	2.00	0.00	0.00	0.01	0.00
15.53	2.00	0.00	0.00	0.01	0.00	15.54	2.00	0.00	0.00	0.01	0.00
15.55	2.00	0.00	0.00	0.01	0.00	15.56	2.00	0.00	0.00	0.01	0.00
15.57	2.00	0.00	0.00	0.01	0.00	15.58	2.00	0.00	0.00	0.01	0.00
15.59	2.00	0.00	0.00	0.01	0.00	15.60	2.00	0.00	0.00	0.01	0.00
15.61	2.00	0.00	0.00	0.01	0.00	15.62	2.00	0.00	0.00	0.01	0.00
15.63	2.00	0.00	0.00	0.01	0.00	15.64	2.00	0.00	0.00	0.01	0.00
15.65	2.00	0.00	0.00	0.01	0.00	15.66	2.00	0.00	0.00	0.01	0.00
15.67	2.00	0.00	0.00	0.01	0.00	15.68	2.00	0.00	0.00	0.01	0.00
15.69	2.00	0.00	0.00	0.01	0.00	15.70	2.00	0.00	0.00	0.01	0.00
15.71	2.00	0.00	0.00	0.01	0.00	15.72	2.00	0.00	0.00	0.01	0.00
15.73	2.00	0.00	0.00	0.01	0.00	15.74	2.00	0.00	0.00	0.01	0.00
15.75	2.00	0.00	0.00	0.01	0.00	15.76	2.00	0.00	0.00	0.01	0.00
15.77	2.00	0.00	0.00	0.01	0.00	15.78	2.00	0.00	0.00	0.01	0.00
15.79	2.00	0.00	0.00	0.01	0.00	15.80	2.00	0.00	0.00	0.01	0.00
15.81	2.00	0.00	0.00	0.01	0.00	15.82	2.00	0.00	0.00	0.01	0.00
15.83	2.00	0.00	0.00	0.01	0.00	15.84	2.00	0.00	0.00	0.01	0.00
15.85	2.00	0.00	0.00	0.01	0.00	15.86	2.00	0.00	0.00	0.01	0.00
15.87	2.00	0.00	0.00	0.01	0.00	15.88	2.00	0.00	0.00	0.01	0.00
15.89	2.00	0.00	0.00	0.01	0.00	15.90	2.00	0.00	0.00	0.01	0.00
15.91	2.00	0.00	0.00	0.01	0.00	15.92	2.00	0.00	0.00	0.01	0.00
15.93	2.00	0.00	0.00	0.01	0.00	15.94	2.00	0.00	0.00	0.01	0.00
15.95	2.00	0.00	0.00	0.01	0.00	15.96	2.00	0.00	0.00	0.01	0.00
15.97	2.00	0.00	0.00	0.01	0.00	15.98	2.00	0.00	0.00	0.01	0.00
15.99	2.00	0.00	0.00	0.01	0.00	16.00	2.00	0.00	0.00	0.01	0.00
16.01	2.00	0.00	0.00	0.01	0.00	16.02	2.00	0.00	0.00	0.01	0.00
16.03	2.00	0.00	0.00	0.01	0.00	16.04	2.00	0.00	0.00	0.01	0.00
16.05	2.00	0.00	0.00	0.01	0.00	16.06	2.00	0.00	0.00	0.01	0.00
16.07	2.00	0.00	0.00	0.01	0.00	16.08	2.00	0.00	0.00	0.01	0.00
16.09	2.00	0.00	0.00	0.01	0.00	16.10	2.00	0.00	0.00	0.01	0.00
16.11	2.00	0.00	0.00	0.01	0.00	16.12	2.00	0.00	0.00	0.01	0.00
16.13	2.00	0.00	0.00	0.01	0.00	16.14	2.00	0.00	0.00	0.01	0.00
16.15	2.00	0.00	0.00	0.01	0.00	16.16	2.00	0.00	0.00	0.01	0.00
16.17	2.00	0.00	0.00	0.01	0.00	16.18	2.00	0.00	0.00	0.01	0.00
16.19	2.00	0.00	0.00	0.01	0.00	16.20	2.00	0.00	0.00	0.01	0.00
16.21	2.00	0.00	0.00	0.01	0.00	16.22	2.00	0.00	0.00	0.01	0.00
16.23	2.00	0.00	0.00	0.01	0.00	16.24	2.00	0.00	0.00	0.01	0.00
16.25	2.00	0.00	0.00	0.01	0.00	16.26	2.00	0.00	0.00	0.01	0.00
16.27	2.00	0.00	0.00	0.01	0.00	16.28	2.00	0.00	0.00	0.01	0.00
16.29	2.00	0.00	0.00	0.01	0.00	16.30	2.00	0.00	0.00	0.01	0.00
16.31	2.00	0.00	0.00	0.01	0.00	16.32	2.00	0.00	0.00	0.01	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.33	2.00	0.00	0.00	0.01	0.00	16.34	2.00	0.00	0.00	0.01	0.00
16.35	2.00	0.00	0.00	0.01	0.00	16.36	2.00	0.00	0.00	0.01	0.00
16.37	2.00	0.00	0.00	0.01	0.00	16.38	2.00	0.00	0.00	0.01	0.00
16.39	2.00	0.00	0.00	0.01	0.00	16.40	2.00	0.00	0.00	0.01	0.00
16.41	2.00	0.00	0.00	0.01	0.00	16.42	2.00	0.00	0.00	0.01	0.00
16.43	2.00	0.00	0.00	0.01	0.00	16.44	2.00	0.00	0.00	0.01	0.00
16.45	2.00	0.00	0.00	0.01	0.00	16.46	2.00	0.00	0.00	0.01	0.00
16.47	2.00	0.00	0.00	0.01	0.00	16.48	2.00	0.00	0.00	0.01	0.00
16.49	2.00	0.00	0.00	0.01	0.00	16.50	2.00	0.00	0.00	0.01	0.00
16.51	2.00	0.00	0.00	0.01	0.00	16.52	2.00	0.00	0.00	0.01	0.00
16.53	2.00	0.00	0.00	0.01	0.00	16.54	2.00	0.00	0.00	0.01	0.00
16.55	2.00	0.00	0.00	0.01	0.00	16.56	2.00	0.00	0.00	0.01	0.00
16.57	2.00	0.00	0.00	0.01	0.00	16.58	2.00	0.00	0.00	0.01	0.00
16.59	2.00	0.00	0.00	0.01	0.00	16.60	2.00	0.00	0.00	0.01	0.00
16.61	2.00	0.00	0.00	0.01	0.00	16.62	2.00	0.00	0.00	0.01	0.00
16.63	2.00	0.00	0.00	0.01	0.00	16.64	2.00	0.00	0.00	0.01	0.00
16.65	2.00	0.00	0.00	0.01	0.00	16.66	2.00	0.00	0.00	0.01	0.00
16.67	2.00	0.00	0.00	0.01	0.00	16.68	2.00	0.00	0.00	0.01	0.00
16.69	2.00	0.00	0.00	0.01	0.00	16.70	2.00	0.00	0.00	0.01	0.00
16.71	2.00	0.00	0.00	0.01	0.00	16.72	2.00	0.00	0.00	0.01	0.00
16.73	2.00	0.00	0.00	0.01	0.00	16.74	2.00	0.00	0.00	0.01	0.00
16.75	2.00	0.00	0.00	0.01	0.00	16.76	2.00	0.00	0.00	0.01	0.00
16.77	2.00	0.00	0.00	0.01	0.00	16.78	2.00	0.00	0.00	0.01	0.00
16.79	2.00	0.00	0.00	0.01	0.00	16.80	2.00	0.00	0.00	0.01	0.00
16.81	2.00	0.00	0.00	0.01	0.00	16.82	2.00	0.00	0.00	0.01	0.00
16.83	2.00	0.00	0.00	0.01	0.00	16.84	2.00	0.00	0.00	0.01	0.00
16.85	2.00	0.00	0.00	0.01	0.00	16.86	2.00	0.00	0.00	0.01	0.00

Overall liquefaction potential: 0.65

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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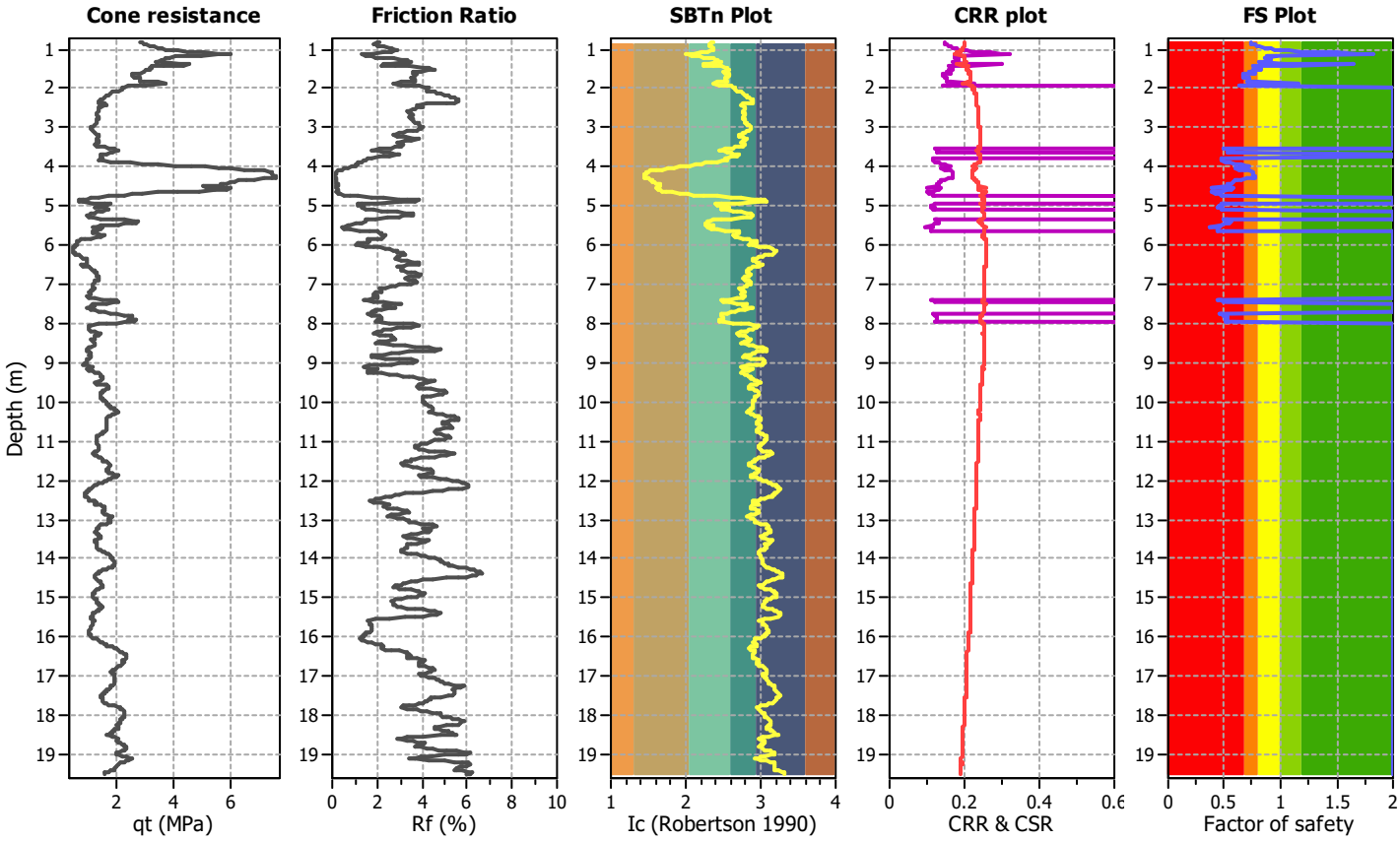
LIQUEFACTION ANALYSIS REPORT

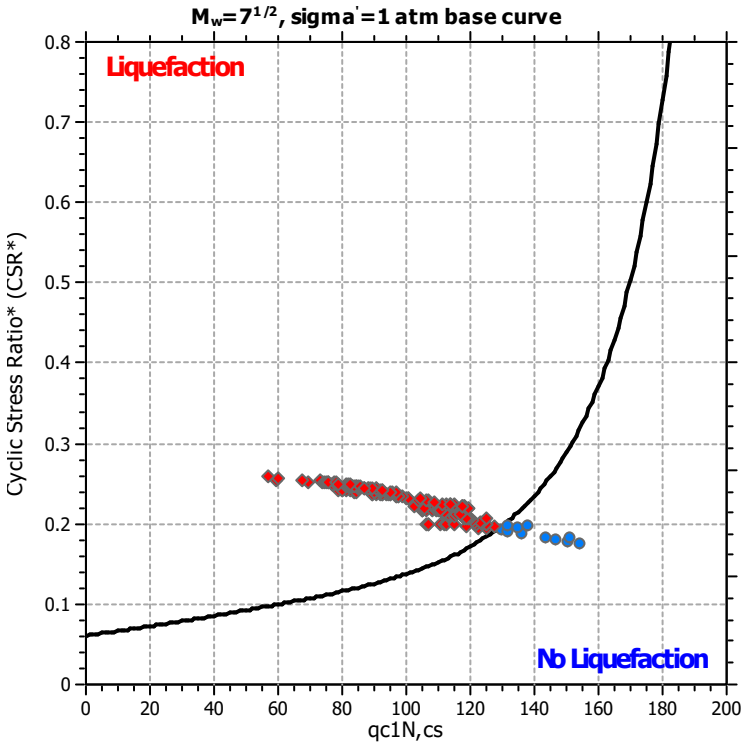
Project title : **Location :**

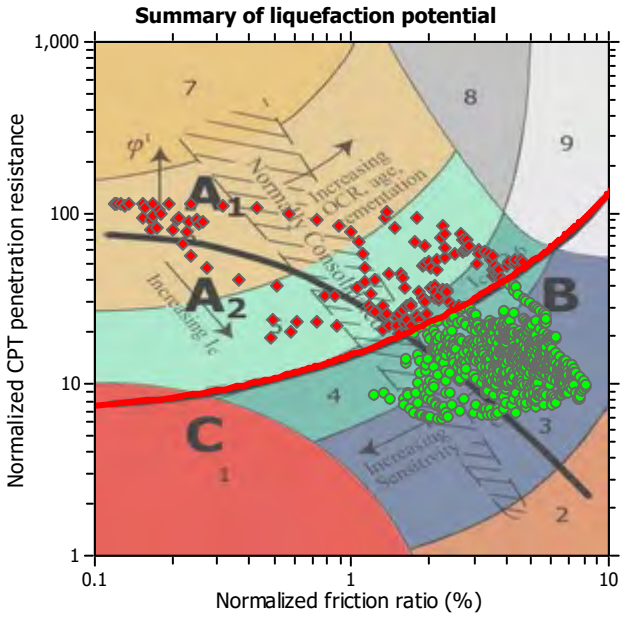
CPT file : SP271

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

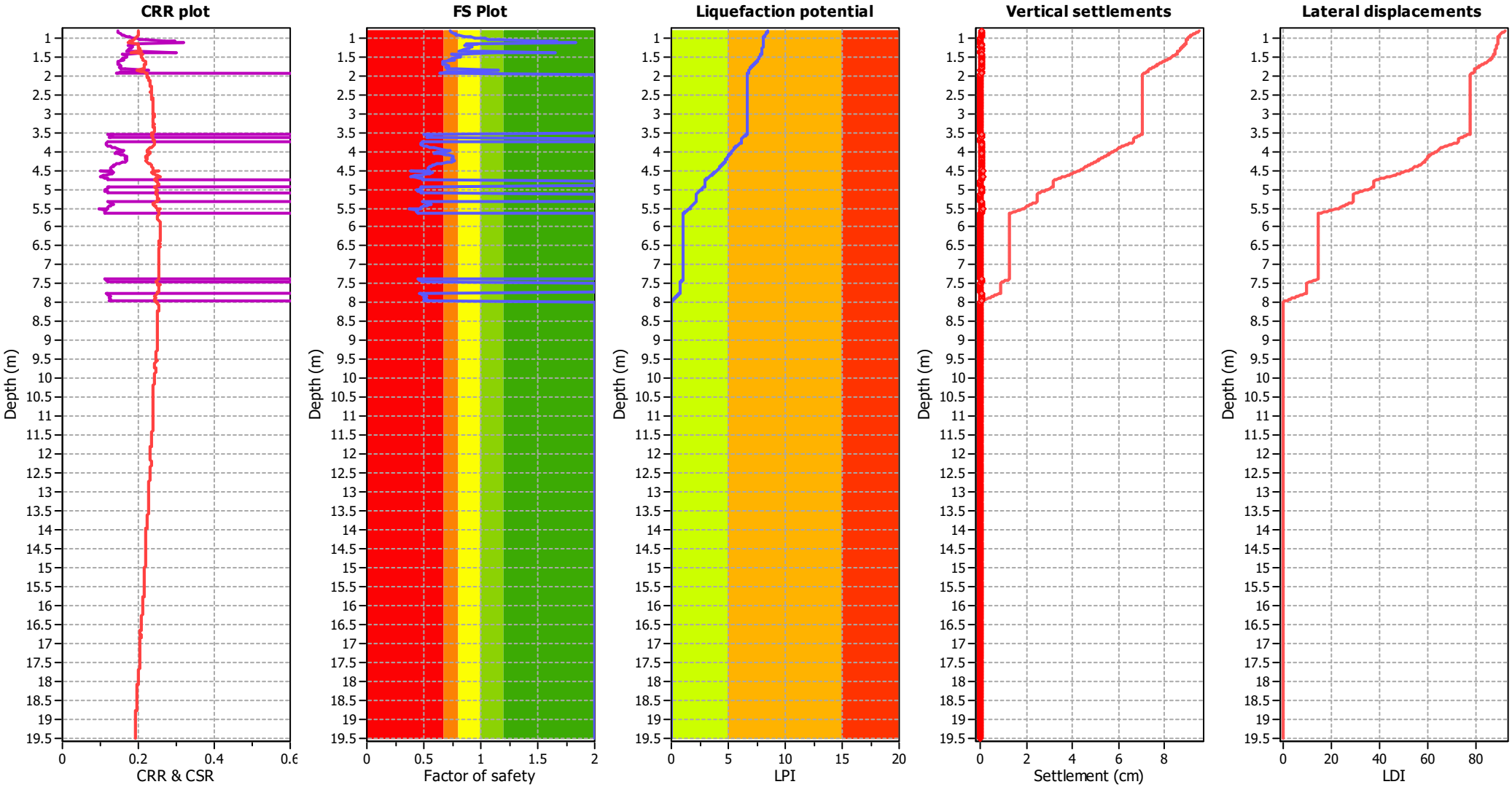






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.82	0.74	0.00	0.00	0.02	0.05	0.84	0.74	0.00	0.00	0.02	0.05
0.86	0.74	0.00	0.00	0.02	0.05	0.88	0.77	0.00	0.00	0.02	0.04
0.90	0.78	0.00	0.00	0.02	0.04	0.92	0.79	0.00	0.00	0.02	0.04
0.94	0.81	0.00	0.00	0.02	0.04	0.96	0.86	0.00	0.00	0.02	0.03
0.98	0.91	0.00	0.00	0.02	0.02	1.00	0.95	0.00	0.00	0.02	0.01
1.02	1.04	0.00	0.00	0.02	0.00	1.04	1.07	0.00	0.00	0.02	0.00
1.06	1.17	0.00	0.00	0.02	0.00	1.08	1.49	0.00	0.00	0.02	0.00
1.10	1.67	0.00	0.00	0.02	0.00	1.12	1.38	0.00	0.00	0.02	0.00
1.14	1.83	0.00	0.00	0.02	0.00	1.16	0.87	0.00	0.00	0.02	0.02
1.18	0.97	0.00	0.00	0.02	0.01	1.20	0.86	0.00	0.00	0.02	0.03
1.22	0.90	0.00	0.00	0.02	0.02	1.24	0.92	0.00	0.00	0.02	0.02
1.26	0.91	0.00	0.00	0.02	0.02	1.28	0.90	0.00	0.00	0.02	0.02
1.30	0.88	0.00	0.00	0.02	0.02	1.32	0.84	0.00	0.00	0.02	0.03
1.34	0.81	0.00	0.00	0.02	0.03	1.36	1.03	0.00	0.00	0.02	0.00
1.38	1.65	0.00	0.00	0.02	0.00	1.40	1.11	0.00	0.00	0.02	0.00
1.42	0.83	0.00	0.00	0.02	0.03	1.44	0.75	0.00	0.00	0.02	0.05
1.46	0.81	0.00	0.00	0.02	0.04	1.48	0.82	0.00	0.00	0.02	0.03
1.50	0.82	0.00	0.00	0.02	0.03	1.52	0.81	0.00	0.00	0.02	0.03
1.54	0.75	0.00	0.00	0.02	0.05	1.56	0.77	0.00	0.00	0.02	0.04
1.58	0.72	0.00	0.00	0.02	0.05	1.60	0.77	0.00	0.00	0.02	0.04
1.62	0.66	0.00	0.00	0.02	0.06	1.64	0.66	0.00	0.00	0.02	0.06
1.66	0.66	0.00	0.00	0.02	0.06	1.68	0.67	0.00	0.00	0.02	0.06
1.70	0.66	0.00	0.00	0.02	0.06	1.72	0.69	0.00	0.00	0.02	0.06
1.74	0.72	0.00	0.00	0.02	0.05	1.76	0.72	0.00	0.00	0.02	0.05
1.78	0.71	0.00	0.00	0.02	0.05	1.80	0.70	0.00	0.00	0.02	0.05
1.82	0.70	0.00	0.00	0.02	0.05	1.84	0.78	0.00	0.00	0.02	0.04
1.86	1.15	0.00	0.00	0.02	0.00	1.88	0.89	0.00	0.00	0.02	0.02
1.90	0.71	0.00	0.00	0.02	0.05	1.92	0.66	0.00	0.00	0.02	0.06
1.94	0.64	0.00	0.00	0.02	0.07	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	2.00	0.00	0.00	0.02	0.00
2.02	2.00	0.00	0.00	0.02	0.00	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	2.00	0.00	0.00	0.02	0.00
2.10	2.00	0.00	0.00	0.02	0.00	2.12	2.00	0.00	0.00	0.02	0.00
2.14	2.00	0.00	0.00	0.02	0.00	2.16	2.00	0.00	0.00	0.02	0.00
2.18	2.00	0.00	0.00	0.02	0.00	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00
2.42	2.00	0.00	0.00	0.02	0.00	2.44	2.00	0.00	0.00	0.02	0.00
2.46	2.00	0.00	0.00	0.02	0.00	2.48	2.00	0.00	0.00	0.02	0.00
2.50	2.00	0.00	0.00	0.02	0.00	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	2.00	0.00	0.00	0.02	0.00	2.64	2.00	0.00	0.00	0.02	0.00
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.74	2.00	0.00	0.00	0.02	0.00	2.76	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00
2.82	2.00	0.00	0.00	0.02	0.00	2.84	2.00	0.00	0.00	0.02	0.00
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	2.00	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	2.00	0.00	0.00	0.02	0.00	3.08	2.00	0.00	0.00	0.02	0.00
3.10	2.00	0.00	0.00	0.02	0.00	3.12	2.00	0.00	0.00	0.02	0.00
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.42	2.00	0.00	0.00	0.02	0.00	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	0.50	0.00	0.00	0.02	0.08	3.56	0.57	0.00	0.00	0.02	0.07
3.58	0.54	0.00	0.00	0.02	0.07	3.60	0.54	0.00	0.00	0.02	0.08
3.62	0.54	0.00	0.00	0.02	0.08	3.64	0.53	0.00	0.00	0.02	0.08
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	2.00	0.00	0.00	0.02	0.00
3.74	2.00	0.00	0.00	0.02	0.00	3.76	0.49	0.00	0.00	0.02	0.08
3.78	0.49	0.00	0.00	0.02	0.08	3.80	0.48	0.00	0.00	0.02	0.08
3.82	0.47	0.00	0.00	0.02	0.09	3.84	0.48	0.00	0.00	0.02	0.08
3.86	0.50	0.00	0.00	0.02	0.08	3.88	0.53	0.00	0.00	0.02	0.08
3.90	0.55	0.00	0.00	0.02	0.07	3.92	0.59	0.00	0.00	0.02	0.07
3.94	0.64	0.00	0.00	0.02	0.06	3.96	0.71	0.00	0.00	0.02	0.05
3.98	0.72	0.00	0.00	0.02	0.04	4.00	0.70	0.00	0.00	0.02	0.05
4.02	0.62	0.00	0.00	0.02	0.06	4.04	0.59	0.00	0.00	0.02	0.06
4.06	0.64	0.00	0.00	0.02	0.06	4.08	0.69	0.00	0.00	0.02	0.05
4.10	0.72	0.00	0.00	0.02	0.04	4.12	0.75	0.00	0.00	0.02	0.04
4.14	0.76	0.00	0.00	0.02	0.04	4.16	0.76	0.00	0.00	0.02	0.04
4.18	0.75	0.00	0.00	0.02	0.04	4.20	0.75	0.00	0.00	0.02	0.04
4.22	0.76	0.00	0.00	0.02	0.04	4.24	0.77	0.00	0.00	0.02	0.04
4.26	0.77	0.00	0.00	0.02	0.04	4.28	0.75	0.00	0.00	0.02	0.04
4.30	0.71	0.00	0.00	0.02	0.05	4.32	0.66	0.00	0.00	0.02	0.05
4.34	0.62	0.00	0.00	0.02	0.06	4.36	0.60	0.40	0.62	0.02	0.06
4.38	0.58	0.42	0.59	0.02	0.07	4.40	0.57	0.43	0.58	0.02	0.07
4.42	0.56	0.44	0.55	0.02	0.07	4.44	0.54	0.46	0.53	0.02	0.07
4.46	0.53	0.47	0.52	0.02	0.07	4.48	0.54	0.46	0.53	0.02	0.07
4.50	0.55	0.45	0.55	0.02	0.07	4.52	0.39	0.61	0.38	0.02	0.09
4.54	0.57	0.43	0.57	0.02	0.07	4.56	0.57	0.43	0.58	0.02	0.07
4.58	0.55	0.45	0.55	0.02	0.07	4.60	0.52	0.48	0.51	0.02	0.07
4.62	0.48	0.52	0.45	0.02	0.08	4.64	0.42	0.58	0.40	0.02	0.09

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.66	0.39	0.61	0.38	0.02	0.09	4.68	0.42	0.58	0.40	0.02	0.09
4.70	0.46	0.54	0.43	0.02	0.08	4.72	0.48	0.52	0.46	0.02	0.08
4.74	0.50	0.50	0.47	0.02	0.08	4.76	0.48	0.52	0.46	0.02	0.08
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	2.00	0.00	0.00	0.02	0.00
4.86	2.00	0.00	0.00	0.02	0.00	4.88	2.00	0.00	0.00	0.02	0.00
4.90	2.00	0.00	0.00	0.02	0.00	4.92	2.00	0.00	0.00	0.02	0.00
4.94	0.48	0.52	0.46	0.02	0.08	4.96	0.50	0.50	0.48	0.02	0.07
4.98	0.48	0.52	0.45	0.02	0.08	5.00	0.45	0.55	0.43	0.02	0.08
5.02	0.44	0.56	0.42	0.02	0.08	5.04	0.45	0.55	0.43	0.02	0.08
5.06	0.48	0.52	0.46	0.02	0.08	5.08	0.49	0.51	0.46	0.02	0.08
5.10	0.48	0.52	0.45	0.02	0.08	5.12	2.00	0.00	0.00	0.02	0.00
5.14	2.00	0.00	0.00	0.02	0.00	5.16	2.00	0.00	0.00	0.02	0.00
5.18	2.00	0.00	0.00	0.02	0.00	5.20	2.00	0.00	0.00	0.02	0.00
5.22	2.00	0.00	0.00	0.02	0.00	5.24	2.00	0.00	0.00	0.02	0.00
5.26	2.00	0.00	0.00	0.02	0.00	5.28	2.00	0.00	0.00	0.02	0.00
5.30	2.00	0.00	0.00	0.02	0.00	5.32	2.00	0.00	0.00	0.02	0.00
5.34	0.49	0.51	0.46	0.02	0.08	5.36	0.52	0.48	0.51	0.02	0.07
5.38	0.55	0.45	0.55	0.02	0.07	5.40	0.56	0.44	0.56	0.02	0.06
5.42	0.55	0.45	0.54	0.02	0.07	5.44	0.53	0.47	0.51	0.02	0.07
5.46	0.50	0.50	0.48	0.02	0.07	5.48	0.48	0.52	0.45	0.02	0.08
5.50	0.47	0.53	0.45	0.02	0.08	5.52	0.38	0.62	0.37	0.02	0.09
5.54	0.45	0.55	0.43	0.02	0.08	5.56	0.43	0.57	0.41	0.02	0.08
5.58	0.44	0.56	0.42	0.02	0.08	5.60	0.44	0.56	0.42	0.02	0.08
5.62	0.44	0.56	0.42	0.02	0.08	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	2.00	0.00	0.00	0.02	0.00
5.86	2.00	0.00	0.00	0.02	0.00	5.88	2.00	0.00	0.00	0.02	0.00
5.90	2.00	0.00	0.00	0.02	0.00	5.92	2.00	0.00	0.00	0.02	0.00
5.94	2.00	0.00	0.00	0.02	0.00	5.96	2.00	0.00	0.00	0.02	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.02	0.00
6.02	2.00	0.00	0.00	0.02	0.00	6.04	2.00	0.00	0.00	0.02	0.00
6.06	2.00	0.00	0.00	0.02	0.00	6.08	2.00	0.00	0.00	0.02	0.00
6.10	2.00	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	0.44	0.56	0.42	0.02	0.07	7.40	0.46	0.54	0.43	0.02	0.07
7.42	0.47	0.53	0.45	0.02	0.07	7.44	0.49	0.51	0.47	0.02	0.06
7.46	0.48	0.52	0.46	0.02	0.06	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	0.46	0.54	0.44	0.02	0.07	7.76	0.48	0.52	0.45	0.02	0.06
7.78	0.49	0.51	0.47	0.02	0.06	7.80	0.51	0.49	0.49	0.02	0.06
7.82	0.52	0.48	0.50	0.02	0.06	7.84	0.52	0.48	0.50	0.02	0.06
7.86	0.51	0.49	0.49	0.02	0.06	7.88	0.51	0.49	0.49	0.02	0.06
7.90	0.51	0.49	0.50	0.02	0.06	7.92	0.53	0.47	0.52	0.02	0.06
7.94	0.53	0.47	0.52	0.02	0.06	7.96	0.50	0.50	0.48	0.02	0.06
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00	9.44	2.00	0.00	0.00	0.02	0.00
9.46	2.00	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00
9.62	2.00	0.00	0.00	0.02	0.00	9.64	2.00	0.00	0.00	0.02	0.00
9.66	2.00	0.00	0.00	0.02	0.00	9.68	2.00	0.00	0.00	0.02	0.00
9.70	2.00	0.00	0.00	0.02	0.00	9.72	2.00	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.22	2.00	0.00	0.00	0.02	0.00	10.24	2.00	0.00	0.00	0.02	0.00
10.26	2.00	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	2.00	0.00	0.00	0.02	0.00	10.32	2.00	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00
10.50	2.00	0.00	0.00	0.02	0.00	10.52	2.00	0.00	0.00	0.02	0.00
10.54	2.00	0.00	0.00	0.02	0.00	10.56	2.00	0.00	0.00	0.02	0.00
10.58	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.02	0.00
10.62	2.00	0.00	0.00	0.02	0.00	10.64	2.00	0.00	0.00	0.02	0.00
10.66	2.00	0.00	0.00	0.02	0.00	10.68	2.00	0.00	0.00	0.02	0.00
10.70	2.00	0.00	0.00	0.02	0.00	10.72	2.00	0.00	0.00	0.02	0.00
10.74	2.00	0.00	0.00	0.02	0.00	10.76	2.00	0.00	0.00	0.02	0.00
10.78	2.00	0.00	0.00	0.02	0.00	10.80	2.00	0.00	0.00	0.02	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.84	2.00	0.00	0.00	0.02	0.00
10.86	2.00	0.00	0.00	0.02	0.00	10.88	2.00	0.00	0.00	0.02	0.00
10.90	2.00	0.00	0.00	0.02	0.00	10.92	2.00	0.00	0.00	0.02	0.00
10.94	2.00	0.00	0.00	0.02	0.00	10.96	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.02	0.00	11.00	2.00	0.00	0.00	0.02	0.00
11.02	2.00	0.00	0.00	0.02	0.00	11.04	2.00	0.00	0.00	0.02	0.00
11.06	2.00	0.00	0.00	0.02	0.00	11.08	2.00	0.00	0.00	0.02	0.00
11.10	2.00	0.00	0.00	0.02	0.00	11.12	2.00	0.00	0.00	0.02	0.00
11.14	2.00	0.00	0.00	0.02	0.00	11.16	2.00	0.00	0.00	0.02	0.00
11.18	2.00	0.00	0.00	0.02	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.22	2.00	0.00	0.00	0.02	0.00	11.24	2.00	0.00	0.00	0.02	0.00
11.26	2.00	0.00	0.00	0.02	0.00	11.28	2.00	0.00	0.00	0.02	0.00
11.30	2.00	0.00	0.00	0.02	0.00	11.32	2.00	0.00	0.00	0.02	0.00
11.34	2.00	0.00	0.00	0.02	0.00	11.36	2.00	0.00	0.00	0.02	0.00
11.38	2.00	0.00	0.00	0.02	0.00	11.40	2.00	0.00	0.00	0.02	0.00
11.42	2.00	0.00	0.00	0.02	0.00	11.44	2.00	0.00	0.00	0.02	0.00
11.46	2.00	0.00	0.00	0.02	0.00	11.48	2.00	0.00	0.00	0.02	0.00
11.50	2.00	0.00	0.00	0.02	0.00	11.52	2.00	0.00	0.00	0.02	0.00
11.54	2.00	0.00	0.00	0.02	0.00	11.56	2.00	0.00	0.00	0.02	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.02	0.00
11.62	2.00	0.00	0.00	0.02	0.00	11.64	2.00	0.00	0.00	0.02	0.00
11.66	2.00	0.00	0.00	0.02	0.00	11.68	2.00	0.00	0.00	0.02	0.00
11.70	2.00	0.00	0.00	0.02	0.00	11.72	2.00	0.00	0.00	0.02	0.00
11.74	2.00	0.00	0.00	0.02	0.00	11.76	2.00	0.00	0.00	0.02	0.00
11.78	2.00	0.00	0.00	0.02	0.00	11.80	2.00	0.00	0.00	0.02	0.00
11.82	2.00	0.00	0.00	0.02	0.00	11.84	2.00	0.00	0.00	0.02	0.00
11.86	2.00	0.00	0.00	0.02	0.00	11.88	2.00	0.00	0.00	0.02	0.00
11.90	2.00	0.00	0.00	0.02	0.00	11.92	2.00	0.00	0.00	0.02	0.00
11.94	2.00	0.00	0.00	0.02	0.00	11.96	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.02	0.00	12.00	2.00	0.00	0.00	0.02	0.00
12.02	2.00	0.00	0.00	0.02	0.00	12.04	2.00	0.00	0.00	0.02	0.00
12.06	2.00	0.00	0.00	0.02	0.00	12.08	2.00	0.00	0.00	0.02	0.00
12.10	2.00	0.00	0.00	0.02	0.00	12.12	2.00	0.00	0.00	0.02	0.00
12.14	2.00	0.00	0.00	0.02	0.00	12.16	2.00	0.00	0.00	0.02	0.00
12.18	2.00	0.00	0.00	0.02	0.00	12.20	2.00	0.00	0.00	0.02	0.00
12.22	2.00	0.00	0.00	0.02	0.00	12.24	2.00	0.00	0.00	0.02	0.00
12.26	2.00	0.00	0.00	0.02	0.00	12.28	2.00	0.00	0.00	0.02	0.00
12.30	2.00	0.00	0.00	0.02	0.00	12.32	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.34	2.00	0.00	0.00	0.02	0.00	12.36	2.00	0.00	0.00	0.02	0.00
12.38	2.00	0.00	0.00	0.02	0.00	12.40	2.00	0.00	0.00	0.02	0.00
12.42	2.00	0.00	0.00	0.02	0.00	12.44	2.00	0.00	0.00	0.02	0.00
12.46	2.00	0.00	0.00	0.02	0.00	12.48	2.00	0.00	0.00	0.02	0.00
12.50	2.00	0.00	0.00	0.02	0.00	12.52	2.00	0.00	0.00	0.02	0.00
12.54	2.00	0.00	0.00	0.02	0.00	12.56	2.00	0.00	0.00	0.02	0.00
12.58	2.00	0.00	0.00	0.02	0.00	12.60	2.00	0.00	0.00	0.02	0.00
12.62	2.00	0.00	0.00	0.02	0.00	12.64	2.00	0.00	0.00	0.02	0.00
12.66	2.00	0.00	0.00	0.02	0.00	12.68	2.00	0.00	0.00	0.02	0.00
12.70	2.00	0.00	0.00	0.02	0.00	12.72	2.00	0.00	0.00	0.02	0.00
12.74	2.00	0.00	0.00	0.02	0.00	12.76	2.00	0.00	0.00	0.02	0.00
12.78	2.00	0.00	0.00	0.02	0.00	12.80	2.00	0.00	0.00	0.02	0.00
12.82	2.00	0.00	0.00	0.02	0.00	12.84	2.00	0.00	0.00	0.02	0.00
12.86	2.00	0.00	0.00	0.02	0.00	12.88	2.00	0.00	0.00	0.02	0.00
12.90	2.00	0.00	0.00	0.02	0.00	12.92	2.00	0.00	0.00	0.02	0.00
12.94	2.00	0.00	0.00	0.02	0.00	12.96	2.00	0.00	0.00	0.02	0.00
12.98	2.00	0.00	0.00	0.02	0.00	13.00	2.00	0.00	0.00	0.02	0.00
13.02	2.00	0.00	0.00	0.02	0.00	13.04	2.00	0.00	0.00	0.02	0.00
13.06	2.00	0.00	0.00	0.02	0.00	13.08	2.00	0.00	0.00	0.02	0.00
13.10	2.00	0.00	0.00	0.02	0.00	13.12	2.00	0.00	0.00	0.02	0.00
13.14	2.00	0.00	0.00	0.02	0.00	13.16	2.00	0.00	0.00	0.02	0.00
13.18	2.00	0.00	0.00	0.02	0.00	13.20	2.00	0.00	0.00	0.02	0.00
13.22	2.00	0.00	0.00	0.02	0.00	13.24	2.00	0.00	0.00	0.02	0.00
13.26	2.00	0.00	0.00	0.02	0.00	13.28	2.00	0.00	0.00	0.02	0.00
13.30	2.00	0.00	0.00	0.02	0.00	13.32	2.00	0.00	0.00	0.02	0.00
13.34	2.00	0.00	0.00	0.02	0.00	13.36	2.00	0.00	0.00	0.02	0.00
13.38	2.00	0.00	0.00	0.02	0.00	13.40	2.00	0.00	0.00	0.02	0.00
13.42	2.00	0.00	0.00	0.02	0.00	13.44	2.00	0.00	0.00	0.02	0.00
13.46	2.00	0.00	0.00	0.02	0.00	13.48	2.00	0.00	0.00	0.02	0.00
13.50	2.00	0.00	0.00	0.02	0.00	13.52	2.00	0.00	0.00	0.02	0.00
13.54	2.00	0.00	0.00	0.02	0.00	13.56	2.00	0.00	0.00	0.02	0.00
13.58	2.00	0.00	0.00	0.02	0.00	13.60	2.00	0.00	0.00	0.02	0.00
13.62	2.00	0.00	0.00	0.02	0.00	13.64	2.00	0.00	0.00	0.02	0.00
13.66	2.00	0.00	0.00	0.02	0.00	13.68	2.00	0.00	0.00	0.02	0.00
13.70	2.00	0.00	0.00	0.02	0.00	13.72	2.00	0.00	0.00	0.02	0.00
13.74	2.00	0.00	0.00	0.02	0.00	13.76	2.00	0.00	0.00	0.02	0.00
13.78	2.00	0.00	0.00	0.02	0.00	13.80	2.00	0.00	0.00	0.02	0.00
13.82	2.00	0.00	0.00	0.02	0.00	13.84	2.00	0.00	0.00	0.02	0.00
13.86	2.00	0.00	0.00	0.02	0.00	13.88	2.00	0.00	0.00	0.02	0.00
13.90	2.00	0.00	0.00	0.02	0.00	13.92	2.00	0.00	0.00	0.02	0.00
13.94	2.00	0.00	0.00	0.02	0.00	13.96	2.00	0.00	0.00	0.02	0.00
13.98	2.00	0.00	0.00	0.02	0.00	14.00	2.00	0.00	0.00	0.02	0.00
14.02	2.00	0.00	0.00	0.02	0.00	14.04	2.00	0.00	0.00	0.02	0.00
14.06	2.00	0.00	0.00	0.02	0.00	14.08	2.00	0.00	0.00	0.02	0.00
14.10	2.00	0.00	0.00	0.02	0.00	14.12	2.00	0.00	0.00	0.02	0.00
14.14	2.00	0.00	0.00	0.02	0.00	14.16	2.00	0.00	0.00	0.02	0.00
14.18	2.00	0.00	0.00	0.02	0.00	14.20	2.00	0.00	0.00	0.02	0.00
14.22	2.00	0.00	0.00	0.02	0.00	14.24	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.26	2.00	0.00	0.00	0.02	0.00	14.28	2.00	0.00	0.00	0.02	0.00
14.30	2.00	0.00	0.00	0.02	0.00	14.32	2.00	0.00	0.00	0.02	0.00
14.34	2.00	0.00	0.00	0.02	0.00	14.36	2.00	0.00	0.00	0.02	0.00
14.38	2.00	0.00	0.00	0.02	0.00	14.40	2.00	0.00	0.00	0.02	0.00
14.42	2.00	0.00	0.00	0.02	0.00	14.44	2.00	0.00	0.00	0.02	0.00
14.46	2.00	0.00	0.00	0.02	0.00	14.48	2.00	0.00	0.00	0.02	0.00
14.50	2.00	0.00	0.00	0.02	0.00	14.52	2.00	0.00	0.00	0.02	0.00
14.54	2.00	0.00	0.00	0.02	0.00	14.56	2.00	0.00	0.00	0.02	0.00
14.58	2.00	0.00	0.00	0.02	0.00	14.60	2.00	0.00	0.00	0.02	0.00
14.62	2.00	0.00	0.00	0.02	0.00	14.64	2.00	0.00	0.00	0.02	0.00
14.66	2.00	0.00	0.00	0.02	0.00	14.68	2.00	0.00	0.00	0.02	0.00
14.70	2.00	0.00	0.00	0.02	0.00	14.72	2.00	0.00	0.00	0.02	0.00
14.74	2.00	0.00	0.00	0.02	0.00	14.76	2.00	0.00	0.00	0.02	0.00
14.78	2.00	0.00	0.00	0.02	0.00	14.80	2.00	0.00	0.00	0.02	0.00
14.82	2.00	0.00	0.00	0.02	0.00	14.84	2.00	0.00	0.00	0.02	0.00
14.86	2.00	0.00	0.00	0.02	0.00	14.88	2.00	0.00	0.00	0.02	0.00
14.90	2.00	0.00	0.00	0.02	0.00	14.92	2.00	0.00	0.00	0.02	0.00
14.94	2.00	0.00	0.00	0.02	0.00	14.96	2.00	0.00	0.00	0.02	0.00
14.98	2.00	0.00	0.00	0.02	0.00	15.00	2.00	0.00	0.00	0.02	0.00
15.02	2.00	0.00	0.00	0.02	0.00	15.04	2.00	0.00	0.00	0.02	0.00
15.06	2.00	0.00	0.00	0.02	0.00	15.08	2.00	0.00	0.00	0.02	0.00
15.10	2.00	0.00	0.00	0.02	0.00	15.12	2.00	0.00	0.00	0.02	0.00
15.14	2.00	0.00	0.00	0.02	0.00	15.16	2.00	0.00	0.00	0.02	0.00
15.18	2.00	0.00	0.00	0.02	0.00	15.20	2.00	0.00	0.00	0.02	0.00
15.22	2.00	0.00	0.00	0.02	0.00	15.24	2.00	0.00	0.00	0.02	0.00
15.26	2.00	0.00	0.00	0.02	0.00	15.28	2.00	0.00	0.00	0.02	0.00
15.30	2.00	0.00	0.00	0.02	0.00	15.32	2.00	0.00	0.00	0.02	0.00
15.34	2.00	0.00	0.00	0.02	0.00	15.36	2.00	0.00	0.00	0.02	0.00
15.38	2.00	0.00	0.00	0.02	0.00	15.40	2.00	0.00	0.00	0.02	0.00
15.42	2.00	0.00	0.00	0.02	0.00	15.44	2.00	0.00	0.00	0.02	0.00
15.46	2.00	0.00	0.00	0.02	0.00	15.48	2.00	0.00	0.00	0.02	0.00
15.50	2.00	0.00	0.00	0.02	0.00	15.52	2.00	0.00	0.00	0.02	0.00
15.54	2.00	0.00	0.00	0.02	0.00	15.56	2.00	0.00	0.00	0.02	0.00
15.58	2.00	0.00	0.00	0.02	0.00	15.60	2.00	0.00	0.00	0.02	0.00
15.62	2.00	0.00	0.00	0.02	0.00	15.64	2.00	0.00	0.00	0.02	0.00
15.66	2.00	0.00	0.00	0.02	0.00	15.68	2.00	0.00	0.00	0.02	0.00
15.70	2.00	0.00	0.00	0.02	0.00	15.72	2.00	0.00	0.00	0.02	0.00
15.74	2.00	0.00	0.00	0.02	0.00	15.76	2.00	0.00	0.00	0.02	0.00
15.78	2.00	0.00	0.00	0.02	0.00	15.80	2.00	0.00	0.00	0.02	0.00
15.82	2.00	0.00	0.00	0.02	0.00	15.84	2.00	0.00	0.00	0.02	0.00
15.86	2.00	0.00	0.00	0.02	0.00	15.88	2.00	0.00	0.00	0.02	0.00
15.90	2.00	0.00	0.00	0.02	0.00	15.92	2.00	0.00	0.00	0.02	0.00
15.94	2.00	0.00	0.00	0.02	0.00	15.96	2.00	0.00	0.00	0.02	0.00
15.98	2.00	0.00	0.00	0.02	0.00	16.00	2.00	0.00	0.00	0.02	0.00
16.02	2.00	0.00	0.00	0.02	0.00	16.04	2.00	0.00	0.00	0.02	0.00
16.06	2.00	0.00	0.00	0.02	0.00	16.08	2.00	0.00	0.00	0.02	0.00
16.10	2.00	0.00	0.00	0.02	0.00	16.12	2.00	0.00	0.00	0.02	0.00
16.14	2.00	0.00	0.00	0.02	0.00	16.16	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.18	2.00	0.00	0.00	0.02	0.00	16.20	2.00	0.00	0.00	0.02	0.00
16.22	2.00	0.00	0.00	0.02	0.00	16.24	2.00	0.00	0.00	0.02	0.00
16.26	2.00	0.00	0.00	0.02	0.00	16.28	2.00	0.00	0.00	0.02	0.00
16.30	2.00	0.00	0.00	0.02	0.00	16.32	2.00	0.00	0.00	0.02	0.00
16.34	2.00	0.00	0.00	0.02	0.00	16.36	2.00	0.00	0.00	0.02	0.00
16.38	2.00	0.00	0.00	0.02	0.00	16.40	2.00	0.00	0.00	0.02	0.00
16.42	2.00	0.00	0.00	0.02	0.00	16.44	2.00	0.00	0.00	0.02	0.00
16.46	2.00	0.00	0.00	0.02	0.00	16.48	2.00	0.00	0.00	0.02	0.00
16.50	2.00	0.00	0.00	0.02	0.00	16.52	2.00	0.00	0.00	0.02	0.00
16.54	2.00	0.00	0.00	0.02	0.00	16.56	2.00	0.00	0.00	0.02	0.00
16.58	2.00	0.00	0.00	0.02	0.00	16.60	2.00	0.00	0.00	0.02	0.00
16.62	2.00	0.00	0.00	0.02	0.00	16.64	2.00	0.00	0.00	0.02	0.00
16.66	2.00	0.00	0.00	0.02	0.00	16.68	2.00	0.00	0.00	0.02	0.00
16.70	2.00	0.00	0.00	0.02	0.00	16.72	2.00	0.00	0.00	0.02	0.00
16.74	2.00	0.00	0.00	0.02	0.00	16.76	2.00	0.00	0.00	0.02	0.00
16.78	2.00	0.00	0.00	0.02	0.00	16.80	2.00	0.00	0.00	0.02	0.00
16.82	2.00	0.00	0.00	0.02	0.00	16.84	2.00	0.00	0.00	0.02	0.00
16.86	2.00	0.00	0.00	0.02	0.00	16.88	2.00	0.00	0.00	0.02	0.00
16.90	2.00	0.00	0.00	0.02	0.00	16.92	2.00	0.00	0.00	0.02	0.00
16.94	2.00	0.00	0.00	0.02	0.00	16.96	2.00	0.00	0.00	0.02	0.00
16.98	2.00	0.00	0.00	0.02	0.00	17.00	2.00	0.00	0.00	0.02	0.00
17.02	2.00	0.00	0.00	0.02	0.00	17.04	2.00	0.00	0.00	0.02	0.00
17.06	2.00	0.00	0.00	0.02	0.00	17.08	2.00	0.00	0.00	0.02	0.00
17.10	2.00	0.00	0.00	0.02	0.00	17.12	2.00	0.00	0.00	0.02	0.00
17.14	2.00	0.00	0.00	0.02	0.00	17.16	2.00	0.00	0.00	0.02	0.00
17.18	2.00	0.00	0.00	0.02	0.00	17.20	2.00	0.00	0.00	0.02	0.00
17.22	2.00	0.00	0.00	0.02	0.00	17.24	2.00	0.00	0.00	0.02	0.00
17.26	2.00	0.00	0.00	0.02	0.00	17.28	2.00	0.00	0.00	0.02	0.00
17.30	2.00	0.00	0.00	0.02	0.00	17.32	2.00	0.00	0.00	0.02	0.00
17.34	2.00	0.00	0.00	0.02	0.00	17.36	2.00	0.00	0.00	0.02	0.00
17.38	2.00	0.00	0.00	0.02	0.00	17.40	2.00	0.00	0.00	0.02	0.00
17.42	2.00	0.00	0.00	0.02	0.00	17.44	2.00	0.00	0.00	0.02	0.00
17.46	2.00	0.00	0.00	0.02	0.00	17.48	2.00	0.00	0.00	0.02	0.00
17.50	2.00	0.00	0.00	0.02	0.00	17.52	2.00	0.00	0.00	0.02	0.00
17.54	2.00	0.00	0.00	0.02	0.00	17.56	2.00	0.00	0.00	0.02	0.00
17.58	2.00	0.00	0.00	0.02	0.00	17.60	2.00	0.00	0.00	0.02	0.00
17.62	2.00	0.00	0.00	0.02	0.00	17.64	2.00	0.00	0.00	0.02	0.00
17.66	2.00	0.00	0.00	0.02	0.00	17.68	2.00	0.00	0.00	0.02	0.00
17.70	2.00	0.00	0.00	0.02	0.00	17.72	2.00	0.00	0.00	0.02	0.00
17.74	2.00	0.00	0.00	0.02	0.00	17.76	2.00	0.00	0.00	0.02	0.00
17.78	2.00	0.00	0.00	0.02	0.00	17.80	2.00	0.00	0.00	0.02	0.00
17.82	2.00	0.00	0.00	0.02	0.00	17.84	2.00	0.00	0.00	0.02	0.00
17.86	2.00	0.00	0.00	0.02	0.00	17.88	2.00	0.00	0.00	0.02	0.00
17.90	2.00	0.00	0.00	0.02	0.00	17.92	2.00	0.00	0.00	0.02	0.00
17.94	2.00	0.00	0.00	0.02	0.00	17.96	2.00	0.00	0.00	0.02	0.00
17.98	2.00	0.00	0.00	0.02	0.00	18.00	2.00	0.00	0.00	0.02	0.00
18.02	2.00	0.00	0.00	0.02	0.00	18.04	2.00	0.00	0.00	0.02	0.00
18.06	2.00	0.00	0.00	0.02	0.00	18.08	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
18.10	2.00	0.00	0.00	0.02	0.00	18.12	2.00	0.00	0.00	0.02	0.00
18.14	2.00	0.00	0.00	0.02	0.00	18.16	2.00	0.00	0.00	0.02	0.00
18.18	2.00	0.00	0.00	0.02	0.00	18.20	2.00	0.00	0.00	0.02	0.00
18.22	2.00	0.00	0.00	0.02	0.00	18.24	2.00	0.00	0.00	0.02	0.00
18.26	2.00	0.00	0.00	0.02	0.00	18.28	2.00	0.00	0.00	0.02	0.00
18.30	2.00	0.00	0.00	0.02	0.00	18.32	2.00	0.00	0.00	0.02	0.00
18.34	2.00	0.00	0.00	0.02	0.00	18.36	2.00	0.00	0.00	0.02	0.00
18.38	2.00	0.00	0.00	0.02	0.00	18.40	2.00	0.00	0.00	0.02	0.00
18.42	2.00	0.00	0.00	0.02	0.00	18.44	2.00	0.00	0.00	0.02	0.00
18.46	2.00	0.00	0.00	0.02	0.00	18.48	2.00	0.00	0.00	0.02	0.00
18.50	2.00	0.00	0.00	0.02	0.00	18.52	2.00	0.00	0.00	0.02	0.00
18.54	2.00	0.00	0.00	0.02	0.00	18.56	2.00	0.00	0.00	0.02	0.00
18.58	2.00	0.00	0.00	0.02	0.00	18.60	2.00	0.00	0.00	0.02	0.00
18.62	2.00	0.00	0.00	0.02	0.00	18.64	2.00	0.00	0.00	0.02	0.00
18.66	2.00	0.00	0.00	0.02	0.00	18.68	2.00	0.00	0.00	0.02	0.00
18.70	2.00	0.00	0.00	0.02	0.00	18.72	2.00	0.00	0.00	0.02	0.00
18.74	2.00	0.00	0.00	0.02	0.00	18.76	2.00	0.00	0.00	0.02	0.00
18.78	2.00	0.00	0.00	0.02	0.00	18.80	2.00	0.00	0.00	0.02	0.00
18.82	2.00	0.00	0.00	0.02	0.00	18.84	2.00	0.00	0.00	0.02	0.00
18.86	2.00	0.00	0.00	0.02	0.00	18.88	2.00	0.00	0.00	0.02	0.00
18.90	2.00	0.00	0.00	0.02	0.00	18.92	2.00	0.00	0.00	0.02	0.00
18.94	2.00	0.00	0.00	0.02	0.00	18.96	2.00	0.00	0.00	0.02	0.00
18.98	2.00	0.00	0.00	0.02	0.00	19.00	2.00	0.00	0.00	0.02	0.00
19.02	2.00	0.00	0.00	0.02	0.00	19.04	2.00	0.00	0.00	0.02	0.00
19.06	2.00	0.00	0.00	0.02	0.00	19.08	2.00	0.00	0.00	0.02	0.00
19.10	2.00	0.00	0.00	0.02	0.00	19.12	2.00	0.00	0.00	0.02	0.00
19.14	2.00	0.00	0.00	0.02	0.00	19.16	2.00	0.00	0.00	0.02	0.00
19.18	2.00	0.00	0.00	0.02	0.00	19.20	2.00	0.00	0.00	0.02	0.00
19.22	2.00	0.00	0.00	0.02	0.00	19.24	2.00	0.00	0.00	0.02	0.00
19.26	2.00	0.00	0.00	0.02	0.00	19.28	2.00	0.00	0.00	0.02	0.00
19.30	2.00	0.00	0.00	0.02	0.00	19.32	2.00	0.00	0.00	0.02	0.00
19.34	2.00	0.00	0.00	0.02	0.00	19.36	2.00	0.00	0.00	0.02	0.00
19.38	2.00	0.00	0.00	0.02	0.00	19.40	2.00	0.00	0.00	0.02	0.00
19.42	2.00	0.00	0.00	0.02	0.00	19.44	2.00	0.00	0.00	0.02	0.00
19.46	2.00	0.00	0.00	0.02	0.00	19.48	2.00	0.00	0.00	0.02	0.00
19.50	2.00	0.00	0.00	0.02	0.00						

Overall liquefaction potential: 8.48

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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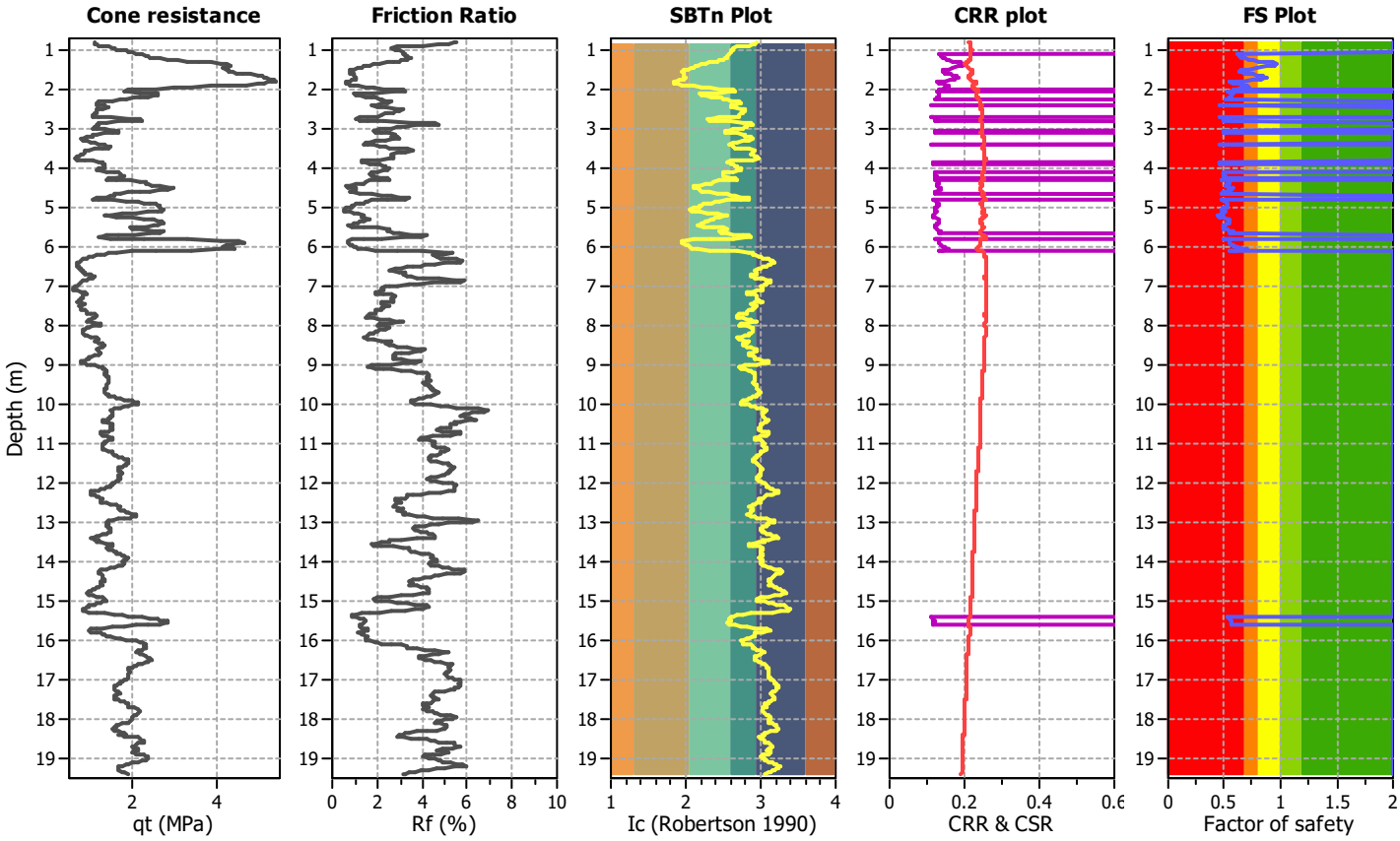
LIQUEFACTION ANALYSIS REPORT

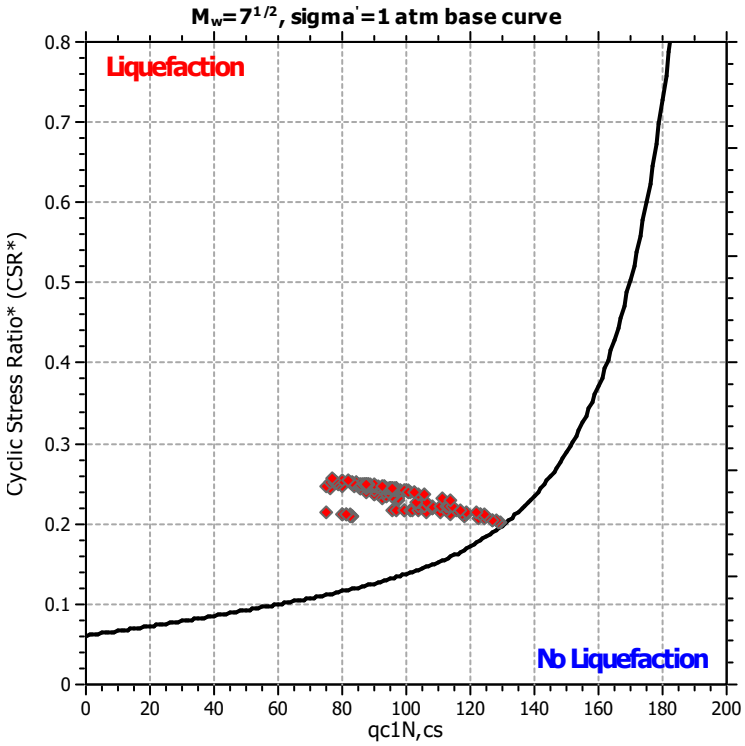
Project title : **Location :**

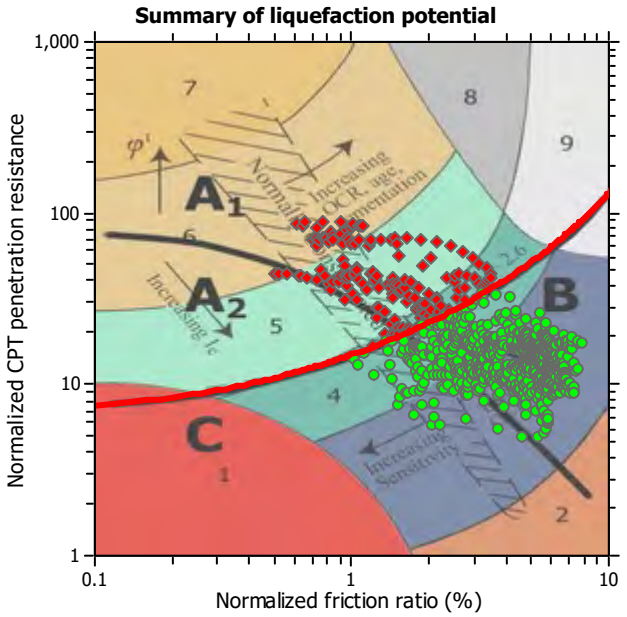
CPT file : SP272

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

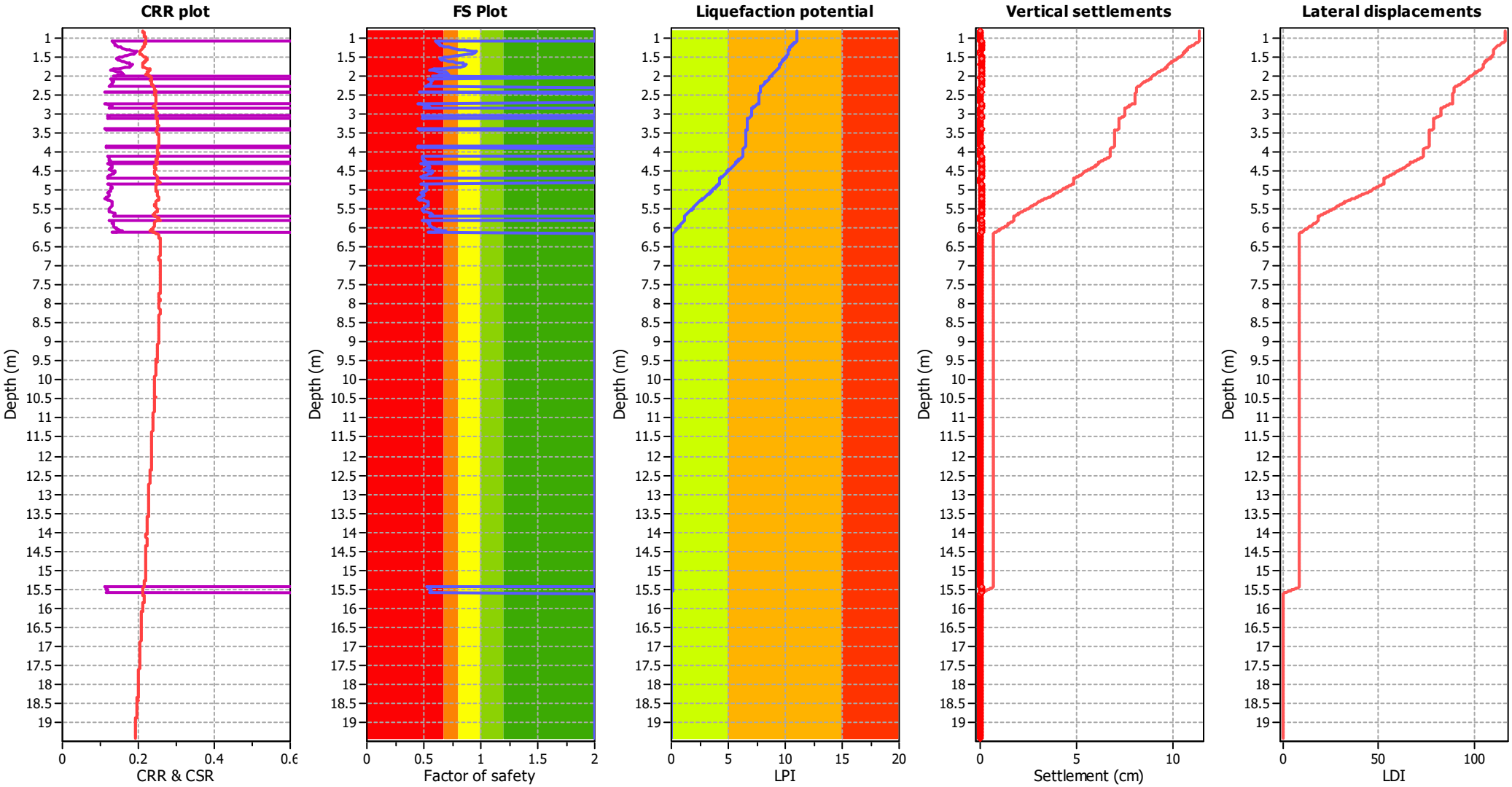






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.82	2.00	0.00	0.00	0.02	0.00	0.84	2.00	0.00	0.00	0.02	0.00
0.86	2.00	0.00	0.00	0.02	0.00	0.88	2.00	0.00	0.00	0.02	0.00
0.90	2.00	0.00	0.00	0.02	0.00	0.92	2.00	0.00	0.00	0.02	0.00
0.94	2.00	0.00	0.00	0.02	0.00	0.96	2.00	0.00	0.00	0.02	0.00
0.98	2.00	0.00	0.00	0.02	0.00	1.00	2.00	0.00	0.00	0.02	0.00
1.02	2.00	0.00	0.00	0.02	0.00	1.04	2.00	0.00	0.00	0.02	0.00
1.06	2.00	0.00	0.00	0.02	0.00	1.08	2.00	0.00	0.00	0.02	0.00
1.10	0.61	0.00	0.00	0.02	0.07	1.12	0.61	0.00	0.00	0.02	0.07
1.14	0.63	0.00	0.00	0.02	0.07	1.16	0.63	0.00	0.00	0.02	0.07
1.18	0.64	0.00	0.00	0.02	0.07	1.20	0.64	0.00	0.00	0.02	0.07
1.22	0.66	0.00	0.00	0.02	0.06	1.24	0.68	0.00	0.00	0.02	0.06
1.26	0.72	0.00	0.00	0.02	0.05	1.28	0.75	0.00	0.00	0.02	0.05
1.30	0.80	0.00	0.00	0.02	0.04	1.32	0.86	0.00	0.00	0.02	0.03
1.34	0.92	0.00	0.00	0.02	0.01	1.36	0.96	0.00	0.00	0.02	0.01
1.38	0.95	0.00	0.00	0.02	0.01	1.40	0.95	0.00	0.00	0.02	0.01
1.42	0.92	0.00	0.00	0.02	0.02	1.44	0.88	0.00	0.00	0.02	0.02
1.46	0.80	0.00	0.00	0.02	0.04	1.48	0.78	0.00	0.00	0.02	0.04
1.50	0.72	0.00	0.00	0.02	0.05	1.52	0.68	0.00	0.00	0.02	0.06
1.54	0.65	0.00	0.00	0.02	0.06	1.56	0.64	0.00	0.00	0.02	0.07
1.58	0.65	0.00	0.00	0.02	0.06	1.60	0.68	0.00	0.00	0.02	0.06
1.62	0.72	0.00	0.00	0.02	0.05	1.64	0.75	0.00	0.00	0.02	0.05
1.66	0.78	0.00	0.00	0.02	0.04	1.68	0.84	0.00	0.00	0.02	0.03
1.70	0.84	0.00	0.00	0.02	0.03	1.72	0.87	0.00	0.00	0.02	0.02
1.74	0.86	0.00	0.00	0.02	0.03	1.76	0.82	0.00	0.00	0.02	0.03
1.78	0.76	0.00	0.00	0.02	0.04	1.80	0.67	0.00	0.00	0.02	0.06
1.82	0.59	0.00	0.00	0.02	0.08	1.84	0.55	0.00	0.00	0.02	0.08
1.86	0.57	0.00	0.00	0.02	0.08	1.88	0.63	0.00	0.00	0.02	0.07
1.90	0.69	0.00	0.00	0.02	0.06	1.92	0.71	0.00	0.00	0.02	0.05
1.94	0.71	0.00	0.00	0.02	0.05	1.96	0.72	0.00	0.00	0.02	0.05
1.98	0.65	0.00	0.00	0.02	0.06	2.00	0.62	0.00	0.00	0.02	0.07
2.02	0.57	0.00	0.00	0.02	0.08	2.04	2.00	0.00	0.00	0.02	0.00
2.06	2.00	0.00	0.00	0.02	0.00	2.08	0.53	0.00	0.00	0.02	0.08
2.10	0.56	0.00	0.00	0.02	0.08	2.12	0.58	0.00	0.00	0.02	0.08
2.14	0.57	0.00	0.00	0.02	0.08	2.16	0.56	0.00	0.00	0.02	0.08
2.18	0.57	0.00	0.00	0.02	0.08	2.20	0.57	0.00	0.00	0.02	0.08
2.22	0.55	0.00	0.00	0.02	0.08	2.24	0.54	0.00	0.00	0.02	0.08
2.26	0.53	0.00	0.00	0.02	0.08	2.28	0.51	0.00	0.00	0.02	0.09
2.30	2.00	0.00	0.00	0.02	0.00	2.32	2.00	0.00	0.00	0.02	0.00
2.34	2.00	0.00	0.00	0.02	0.00	2.36	2.00	0.00	0.00	0.02	0.00
2.38	2.00	0.00	0.00	0.02	0.00	2.40	2.00	0.00	0.00	0.02	0.00
2.42	2.00	0.00	0.00	0.02	0.00	2.44	0.46	0.00	0.00	0.02	0.09
2.46	2.00	0.00	0.00	0.02	0.00	2.48	2.00	0.00	0.00	0.02	0.00
2.50	2.00	0.00	0.00	0.02	0.00	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	2.00	0.00	0.00	0.02	0.00	2.64	2.00	0.00	0.00	0.02	0.00
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	0.45	0.00	0.00	0.02	0.10

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.74	0.47	0.00	0.00	0.02	0.09	2.76	0.50	0.00	0.00	0.02	0.09
2.78	0.54	0.00	0.00	0.02	0.08	2.80	0.54	0.00	0.00	0.02	0.08
2.82	0.52	0.00	0.00	0.02	0.08	2.84	0.50	0.00	0.00	0.02	0.09
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	2.00	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	0.48	0.00	0.00	0.02	0.09	3.08	0.49	0.00	0.00	0.02	0.09
3.10	0.50	0.00	0.00	0.02	0.08	3.12	0.49	0.00	0.00	0.02	0.09
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	0.45	0.00	0.00	0.02	0.09
3.42	0.46	0.00	0.00	0.02	0.09	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.02	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.62	2.00	0.00	0.00	0.02	0.00	3.64	2.00	0.00	0.00	0.02	0.00
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	2.00	0.00	0.00	0.02	0.00
3.74	2.00	0.00	0.00	0.02	0.00	3.76	2.00	0.00	0.00	0.02	0.00
3.78	2.00	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.82	2.00	0.00	0.00	0.02	0.00	3.84	2.00	0.00	0.00	0.02	0.00
3.86	0.45	0.00	0.00	0.02	0.09	3.88	0.45	0.00	0.00	0.02	0.09
3.90	0.45	0.00	0.00	0.02	0.09	3.92	2.00	0.00	0.00	0.02	0.00
3.94	2.00	0.00	0.00	0.02	0.00	3.96	2.00	0.00	0.00	0.02	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.02	2.00	0.00	0.00	0.02	0.00	4.04	2.00	0.00	0.00	0.02	0.00
4.06	2.00	0.00	0.00	0.02	0.00	4.08	2.00	0.00	0.00	0.02	0.00
4.10	2.00	0.00	0.00	0.02	0.00	4.12	0.49	0.00	0.00	0.02	0.08
4.14	0.49	0.00	0.00	0.02	0.08	4.16	0.49	0.00	0.00	0.02	0.08
4.18	0.49	0.00	0.00	0.02	0.08	4.20	0.50	0.00	0.00	0.02	0.08
4.22	0.50	0.00	0.00	0.02	0.08	4.24	0.51	0.00	0.00	0.02	0.08
4.26	0.49	0.00	0.00	0.02	0.08	4.28	2.00	0.00	0.00	0.02	0.00
4.30	2.00	0.00	0.00	0.02	0.00	4.32	0.48	0.52	0.45	0.02	0.08
4.34	0.52	0.48	0.51	0.02	0.07	4.36	0.54	0.46	0.53	0.02	0.07
4.38	0.54	0.46	0.53	0.02	0.07	4.40	0.55	0.45	0.54	0.02	0.07
4.42	0.55	0.45	0.54	0.02	0.07	4.44	0.52	0.48	0.51	0.02	0.07
4.46	0.51	0.49	0.50	0.02	0.08	4.48	0.50	0.50	0.48	0.02	0.08
4.50	0.54	0.46	0.53	0.02	0.07	4.52	0.57	0.43	0.58	0.02	0.07
4.54	0.57	0.43	0.58	0.02	0.07	4.56	0.56	0.44	0.56	0.02	0.07
4.58	0.54	0.46	0.53	0.02	0.07	4.60	0.52	0.48	0.50	0.02	0.07
4.62	0.50	0.50	0.48	0.02	0.08	4.64	0.48	0.52	0.46	0.02	0.08

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.66	0.47	0.53	0.45	0.02	0.08	4.68	0.48	0.52	0.46	0.02	0.08
4.70	2.00	0.00	0.00	0.02	0.00	4.72	2.00	0.00	0.00	0.02	0.00
4.74	2.00	0.00	0.00	0.02	0.00	4.76	2.00	0.00	0.00	0.02	0.00
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	0.47	0.53	0.45	0.02	0.08
4.86	0.50	0.50	0.48	0.02	0.08	4.88	0.52	0.48	0.50	0.02	0.07
4.90	0.53	0.47	0.51	0.02	0.07	4.92	0.53	0.47	0.51	0.02	0.07
4.94	0.53	0.47	0.52	0.02	0.07	4.96	0.53	0.47	0.51	0.02	0.07
4.98	0.53	0.47	0.51	0.02	0.07	5.00	0.52	0.48	0.50	0.02	0.07
5.02	0.51	0.49	0.49	0.02	0.07	5.04	0.49	0.51	0.47	0.02	0.08
5.06	0.48	0.52	0.45	0.02	0.08	5.08	0.48	0.52	0.45	0.02	0.08
5.10	0.49	0.51	0.46	0.02	0.08	5.12	0.50	0.50	0.47	0.02	0.08
5.14	0.50	0.50	0.48	0.02	0.07	5.16	0.49	0.51	0.47	0.02	0.08
5.18	0.47	0.53	0.45	0.02	0.08	5.20	0.46	0.54	0.43	0.02	0.08
5.22	0.44	0.56	0.42	0.02	0.08	5.24	0.44	0.56	0.42	0.02	0.08
5.26	0.46	0.54	0.44	0.02	0.08	5.28	0.50	0.50	0.47	0.02	0.07
5.30	0.53	0.47	0.51	0.02	0.07	5.32	0.54	0.46	0.53	0.02	0.07
5.34	0.54	0.46	0.53	0.02	0.07	5.36	0.54	0.46	0.53	0.02	0.07
5.38	0.54	0.46	0.52	0.02	0.07	5.40	0.54	0.46	0.53	0.02	0.07
5.42	0.54	0.46	0.53	0.02	0.07	5.44	0.52	0.48	0.51	0.02	0.07
5.46	0.51	0.49	0.49	0.02	0.07	5.48	0.49	0.51	0.47	0.02	0.07
5.50	0.50	0.50	0.47	0.02	0.07	5.52	0.49	0.51	0.47	0.02	0.07
5.54	0.49	0.51	0.47	0.02	0.07	5.56	0.50	0.50	0.48	0.02	0.07
5.58	0.52	0.48	0.50	0.02	0.07	5.60	0.55	0.45	0.54	0.02	0.06
5.62	0.57	0.43	0.57	0.02	0.06	5.64	0.57	0.43	0.58	0.02	0.06
5.66	0.58	0.42	0.59	0.02	0.06	5.68	0.55	0.45	0.54	0.02	0.06
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	0.49	0.51	0.47	0.02	0.07	5.84	0.56	0.44	0.56	0.02	0.06
5.86	0.55	0.45	0.55	0.02	0.06	5.88	0.54	0.46	0.53	0.02	0.06
5.90	0.55	0.45	0.54	0.02	0.06	5.92	0.55	0.45	0.54	0.02	0.06
5.94	0.55	0.45	0.54	0.02	0.06	5.96	0.56	0.44	0.57	0.02	0.06
5.98	0.57	0.43	0.58	0.02	0.06	6.00	0.59	0.41	0.61	0.02	0.06
6.02	0.60	0.40	0.63	0.02	0.06	6.04	0.62	0.38	0.67	0.02	0.05
6.06	0.66	0.00	0.00	0.02	0.05	6.08	0.69	0.00	0.00	0.02	0.04
6.10	0.59	0.41	0.62	0.02	0.06	6.12	0.54	0.46	0.53	0.02	0.06
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	2.00	0.00	0.00	0.02	0.00	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00	9.44	2.00	0.00	0.00	0.02	0.00
9.46	2.00	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00
9.62	2.00	0.00	0.00	0.02	0.00	9.64	2.00	0.00	0.00	0.02	0.00
9.66	2.00	0.00	0.00	0.02	0.00	9.68	2.00	0.00	0.00	0.02	0.00
9.70	2.00	0.00	0.00	0.02	0.00	9.72	2.00	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.22	2.00	0.00	0.00	0.02	0.00	10.24	2.00	0.00	0.00	0.02	0.00
10.26	2.00	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	2.00	0.00	0.00	0.02	0.00	10.32	2.00	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00
10.50	2.00	0.00	0.00	0.02	0.00	10.52	2.00	0.00	0.00	0.02	0.00
10.54	2.00	0.00	0.00	0.02	0.00	10.56	2.00	0.00	0.00	0.02	0.00
10.58	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.02	0.00
10.62	2.00	0.00	0.00	0.02	0.00	10.64	2.00	0.00	0.00	0.02	0.00
10.66	2.00	0.00	0.00	0.02	0.00	10.68	2.00	0.00	0.00	0.02	0.00
10.70	2.00	0.00	0.00	0.02	0.00	10.72	2.00	0.00	0.00	0.02	0.00
10.74	2.00	0.00	0.00	0.02	0.00	10.76	2.00	0.00	0.00	0.02	0.00
10.78	2.00	0.00	0.00	0.02	0.00	10.80	2.00	0.00	0.00	0.02	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.84	2.00	0.00	0.00	0.02	0.00
10.86	2.00	0.00	0.00	0.02	0.00	10.88	2.00	0.00	0.00	0.02	0.00
10.90	2.00	0.00	0.00	0.02	0.00	10.92	2.00	0.00	0.00	0.02	0.00
10.94	2.00	0.00	0.00	0.02	0.00	10.96	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.02	0.00	11.00	2.00	0.00	0.00	0.02	0.00
11.02	2.00	0.00	0.00	0.02	0.00	11.04	2.00	0.00	0.00	0.02	0.00
11.06	2.00	0.00	0.00	0.02	0.00	11.08	2.00	0.00	0.00	0.02	0.00
11.10	2.00	0.00	0.00	0.02	0.00	11.12	2.00	0.00	0.00	0.02	0.00
11.14	2.00	0.00	0.00	0.02	0.00	11.16	2.00	0.00	0.00	0.02	0.00
11.18	2.00	0.00	0.00	0.02	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.22	2.00	0.00	0.00	0.02	0.00	11.24	2.00	0.00	0.00	0.02	0.00
11.26	2.00	0.00	0.00	0.02	0.00	11.28	2.00	0.00	0.00	0.02	0.00
11.30	2.00	0.00	0.00	0.02	0.00	11.32	2.00	0.00	0.00	0.02	0.00
11.34	2.00	0.00	0.00	0.02	0.00	11.36	2.00	0.00	0.00	0.02	0.00
11.38	2.00	0.00	0.00	0.02	0.00	11.40	2.00	0.00	0.00	0.02	0.00
11.42	2.00	0.00	0.00	0.02	0.00	11.44	2.00	0.00	0.00	0.02	0.00
11.46	2.00	0.00	0.00	0.02	0.00	11.48	2.00	0.00	0.00	0.02	0.00
11.50	2.00	0.00	0.00	0.02	0.00	11.52	2.00	0.00	0.00	0.02	0.00
11.54	2.00	0.00	0.00	0.02	0.00	11.56	2.00	0.00	0.00	0.02	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.02	0.00
11.62	2.00	0.00	0.00	0.02	0.00	11.64	2.00	0.00	0.00	0.02	0.00
11.66	2.00	0.00	0.00	0.02	0.00	11.68	2.00	0.00	0.00	0.02	0.00
11.70	2.00	0.00	0.00	0.02	0.00	11.72	2.00	0.00	0.00	0.02	0.00
11.74	2.00	0.00	0.00	0.02	0.00	11.76	2.00	0.00	0.00	0.02	0.00
11.78	2.00	0.00	0.00	0.02	0.00	11.80	2.00	0.00	0.00	0.02	0.00
11.82	2.00	0.00	0.00	0.02	0.00	11.84	2.00	0.00	0.00	0.02	0.00
11.86	2.00	0.00	0.00	0.02	0.00	11.88	2.00	0.00	0.00	0.02	0.00
11.90	2.00	0.00	0.00	0.02	0.00	11.92	2.00	0.00	0.00	0.02	0.00
11.94	2.00	0.00	0.00	0.02	0.00	11.96	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.02	0.00	12.00	2.00	0.00	0.00	0.02	0.00
12.02	2.00	0.00	0.00	0.02	0.00	12.04	2.00	0.00	0.00	0.02	0.00
12.06	2.00	0.00	0.00	0.02	0.00	12.08	2.00	0.00	0.00	0.02	0.00
12.10	2.00	0.00	0.00	0.02	0.00	12.12	2.00	0.00	0.00	0.02	0.00
12.14	2.00	0.00	0.00	0.02	0.00	12.16	2.00	0.00	0.00	0.02	0.00
12.18	2.00	0.00	0.00	0.02	0.00	12.20	2.00	0.00	0.00	0.02	0.00
12.22	2.00	0.00	0.00	0.02	0.00	12.24	2.00	0.00	0.00	0.02	0.00
12.26	2.00	0.00	0.00	0.02	0.00	12.28	2.00	0.00	0.00	0.02	0.00
12.30	2.00	0.00	0.00	0.02	0.00	12.32	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
12.34	2.00	0.00	0.00	0.02	0.00	12.36	2.00	0.00	0.00	0.02	0.00
12.38	2.00	0.00	0.00	0.02	0.00	12.40	2.00	0.00	0.00	0.02	0.00
12.42	2.00	0.00	0.00	0.02	0.00	12.44	2.00	0.00	0.00	0.02	0.00
12.46	2.00	0.00	0.00	0.02	0.00	12.48	2.00	0.00	0.00	0.02	0.00
12.50	2.00	0.00	0.00	0.02	0.00	12.52	2.00	0.00	0.00	0.02	0.00
12.54	2.00	0.00	0.00	0.02	0.00	12.56	2.00	0.00	0.00	0.02	0.00
12.58	2.00	0.00	0.00	0.02	0.00	12.60	2.00	0.00	0.00	0.02	0.00
12.62	2.00	0.00	0.00	0.02	0.00	12.64	2.00	0.00	0.00	0.02	0.00
12.66	2.00	0.00	0.00	0.02	0.00	12.68	2.00	0.00	0.00	0.02	0.00
12.70	2.00	0.00	0.00	0.02	0.00	12.72	2.00	0.00	0.00	0.02	0.00
12.74	2.00	0.00	0.00	0.02	0.00	12.76	2.00	0.00	0.00	0.02	0.00
12.78	2.00	0.00	0.00	0.02	0.00	12.80	2.00	0.00	0.00	0.02	0.00
12.82	2.00	0.00	0.00	0.02	0.00	12.84	2.00	0.00	0.00	0.02	0.00
12.86	2.00	0.00	0.00	0.02	0.00	12.88	2.00	0.00	0.00	0.02	0.00
12.90	2.00	0.00	0.00	0.02	0.00	12.92	2.00	0.00	0.00	0.02	0.00
12.94	2.00	0.00	0.00	0.02	0.00	12.96	2.00	0.00	0.00	0.02	0.00
12.98	2.00	0.00	0.00	0.02	0.00	13.00	2.00	0.00	0.00	0.02	0.00
13.02	2.00	0.00	0.00	0.02	0.00	13.04	2.00	0.00	0.00	0.02	0.00
13.06	2.00	0.00	0.00	0.02	0.00	13.08	2.00	0.00	0.00	0.02	0.00
13.10	2.00	0.00	0.00	0.02	0.00	13.12	2.00	0.00	0.00	0.02	0.00
13.14	2.00	0.00	0.00	0.02	0.00	13.16	2.00	0.00	0.00	0.02	0.00
13.18	2.00	0.00	0.00	0.02	0.00	13.20	2.00	0.00	0.00	0.02	0.00
13.22	2.00	0.00	0.00	0.02	0.00	13.24	2.00	0.00	0.00	0.02	0.00
13.26	2.00	0.00	0.00	0.02	0.00	13.28	2.00	0.00	0.00	0.02	0.00
13.30	2.00	0.00	0.00	0.02	0.00	13.32	2.00	0.00	0.00	0.02	0.00
13.34	2.00	0.00	0.00	0.02	0.00	13.36	2.00	0.00	0.00	0.02	0.00
13.38	2.00	0.00	0.00	0.02	0.00	13.40	2.00	0.00	0.00	0.02	0.00
13.42	2.00	0.00	0.00	0.02	0.00	13.44	2.00	0.00	0.00	0.02	0.00
13.46	2.00	0.00	0.00	0.02	0.00	13.48	2.00	0.00	0.00	0.02	0.00
13.50	2.00	0.00	0.00	0.02	0.00	13.52	2.00	0.00	0.00	0.02	0.00
13.54	2.00	0.00	0.00	0.02	0.00	13.56	2.00	0.00	0.00	0.02	0.00
13.58	2.00	0.00	0.00	0.02	0.00	13.60	2.00	0.00	0.00	0.02	0.00
13.62	2.00	0.00	0.00	0.02	0.00	13.64	2.00	0.00	0.00	0.02	0.00
13.66	2.00	0.00	0.00	0.02	0.00	13.68	2.00	0.00	0.00	0.02	0.00
13.70	2.00	0.00	0.00	0.02	0.00	13.72	2.00	0.00	0.00	0.02	0.00
13.74	2.00	0.00	0.00	0.02	0.00	13.76	2.00	0.00	0.00	0.02	0.00
13.78	2.00	0.00	0.00	0.02	0.00	13.80	2.00	0.00	0.00	0.02	0.00
13.82	2.00	0.00	0.00	0.02	0.00	13.84	2.00	0.00	0.00	0.02	0.00
13.86	2.00	0.00	0.00	0.02	0.00	13.88	2.00	0.00	0.00	0.02	0.00
13.90	2.00	0.00	0.00	0.02	0.00	13.92	2.00	0.00	0.00	0.02	0.00
13.94	2.00	0.00	0.00	0.02	0.00	13.96	2.00	0.00	0.00	0.02	0.00
13.98	2.00	0.00	0.00	0.02	0.00	14.00	2.00	0.00	0.00	0.02	0.00
14.02	2.00	0.00	0.00	0.02	0.00	14.04	2.00	0.00	0.00	0.02	0.00
14.06	2.00	0.00	0.00	0.02	0.00	14.08	2.00	0.00	0.00	0.02	0.00
14.10	2.00	0.00	0.00	0.02	0.00	14.12	2.00	0.00	0.00	0.02	0.00
14.14	2.00	0.00	0.00	0.02	0.00	14.16	2.00	0.00	0.00	0.02	0.00
14.18	2.00	0.00	0.00	0.02	0.00	14.20	2.00	0.00	0.00	0.02	0.00
14.22	2.00	0.00	0.00	0.02	0.00	14.24	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
14.26	2.00	0.00	0.00	0.02	0.00	14.28	2.00	0.00	0.00	0.02	0.00
14.30	2.00	0.00	0.00	0.02	0.00	14.32	2.00	0.00	0.00	0.02	0.00
14.34	2.00	0.00	0.00	0.02	0.00	14.36	2.00	0.00	0.00	0.02	0.00
14.38	2.00	0.00	0.00	0.02	0.00	14.40	2.00	0.00	0.00	0.02	0.00
14.42	2.00	0.00	0.00	0.02	0.00	14.44	2.00	0.00	0.00	0.02	0.00
14.46	2.00	0.00	0.00	0.02	0.00	14.48	2.00	0.00	0.00	0.02	0.00
14.50	2.00	0.00	0.00	0.02	0.00	14.52	2.00	0.00	0.00	0.02	0.00
14.54	2.00	0.00	0.00	0.02	0.00	14.56	2.00	0.00	0.00	0.02	0.00
14.58	2.00	0.00	0.00	0.02	0.00	14.60	2.00	0.00	0.00	0.02	0.00
14.62	2.00	0.00	0.00	0.02	0.00	14.64	2.00	0.00	0.00	0.02	0.00
14.66	2.00	0.00	0.00	0.02	0.00	14.68	2.00	0.00	0.00	0.02	0.00
14.70	2.00	0.00	0.00	0.02	0.00	14.72	2.00	0.00	0.00	0.02	0.00
14.74	2.00	0.00	0.00	0.02	0.00	14.76	2.00	0.00	0.00	0.02	0.00
14.78	2.00	0.00	0.00	0.02	0.00	14.80	2.00	0.00	0.00	0.02	0.00
14.82	2.00	0.00	0.00	0.02	0.00	14.84	2.00	0.00	0.00	0.02	0.00
14.86	2.00	0.00	0.00	0.02	0.00	14.88	2.00	0.00	0.00	0.02	0.00
14.90	2.00	0.00	0.00	0.02	0.00	14.92	2.00	0.00	0.00	0.02	0.00
14.94	2.00	0.00	0.00	0.02	0.00	14.96	2.00	0.00	0.00	0.02	0.00
14.98	2.00	0.00	0.00	0.02	0.00	15.00	2.00	0.00	0.00	0.02	0.00
15.02	2.00	0.00	0.00	0.02	0.00	15.04	2.00	0.00	0.00	0.02	0.00
15.06	2.00	0.00	0.00	0.02	0.00	15.08	2.00	0.00	0.00	0.02	0.00
15.10	2.00	0.00	0.00	0.02	0.00	15.12	2.00	0.00	0.00	0.02	0.00
15.14	2.00	0.00	0.00	0.02	0.00	15.16	2.00	0.00	0.00	0.02	0.00
15.18	2.00	0.00	0.00	0.02	0.00	15.20	2.00	0.00	0.00	0.02	0.00
15.22	2.00	0.00	0.00	0.02	0.00	15.24	2.00	0.00	0.00	0.02	0.00
15.26	2.00	0.00	0.00	0.02	0.00	15.28	2.00	0.00	0.00	0.02	0.00
15.30	2.00	0.00	0.00	0.02	0.00	15.32	2.00	0.00	0.00	0.02	0.00
15.34	2.00	0.00	0.00	0.02	0.00	15.36	2.00	0.00	0.00	0.02	0.00
15.38	2.00	0.00	0.00	0.02	0.00	15.40	2.00	0.00	0.00	0.02	0.00
15.42	2.00	0.00	0.00	0.02	0.00	15.44	0.52	0.48	0.50	0.02	0.02
15.46	0.55	0.45	0.54	0.02	0.02	15.48	0.55	0.45	0.54	0.02	0.02
15.50	0.55	0.45	0.55	0.02	0.02	15.52	0.56	0.44	0.56	0.02	0.02
15.54	0.56	0.44	0.57	0.02	0.02	15.56	0.56	0.44	0.57	0.02	0.02
15.58	0.56	0.44	0.56	0.02	0.02	15.60	0.55	0.45	0.55	0.02	0.02
15.62	2.00	0.00	0.00	0.02	0.00	15.64	2.00	0.00	0.00	0.02	0.00
15.66	2.00	0.00	0.00	0.02	0.00	15.68	2.00	0.00	0.00	0.02	0.00
15.70	2.00	0.00	0.00	0.02	0.00	15.72	2.00	0.00	0.00	0.02	0.00
15.74	2.00	0.00	0.00	0.02	0.00	15.76	2.00	0.00	0.00	0.02	0.00
15.78	2.00	0.00	0.00	0.02	0.00	15.80	2.00	0.00	0.00	0.02	0.00
15.82	2.00	0.00	0.00	0.02	0.00	15.84	2.00	0.00	0.00	0.02	0.00
15.86	2.00	0.00	0.00	0.02	0.00	15.88	2.00	0.00	0.00	0.02	0.00
15.90	2.00	0.00	0.00	0.02	0.00	15.92	2.00	0.00	0.00	0.02	0.00
15.94	2.00	0.00	0.00	0.02	0.00	15.96	2.00	0.00	0.00	0.02	0.00
15.98	2.00	0.00	0.00	0.02	0.00	16.00	2.00	0.00	0.00	0.02	0.00
16.02	2.00	0.00	0.00	0.02	0.00	16.04	2.00	0.00	0.00	0.02	0.00
16.06	2.00	0.00	0.00	0.02	0.00	16.08	2.00	0.00	0.00	0.02	0.00
16.10	2.00	0.00	0.00	0.02	0.00	16.12	2.00	0.00	0.00	0.02	0.00
16.14	2.00	0.00	0.00	0.02	0.00	16.16	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
16.18	2.00	0.00	0.00	0.02	0.00	16.20	2.00	0.00	0.00	0.02	0.00
16.22	2.00	0.00	0.00	0.02	0.00	16.24	2.00	0.00	0.00	0.02	0.00
16.26	2.00	0.00	0.00	0.02	0.00	16.28	2.00	0.00	0.00	0.02	0.00
16.30	2.00	0.00	0.00	0.02	0.00	16.32	2.00	0.00	0.00	0.02	0.00
16.34	2.00	0.00	0.00	0.02	0.00	16.36	2.00	0.00	0.00	0.02	0.00
16.38	2.00	0.00	0.00	0.02	0.00	16.40	2.00	0.00	0.00	0.02	0.00
16.42	2.00	0.00	0.00	0.02	0.00	16.44	2.00	0.00	0.00	0.02	0.00
16.46	2.00	0.00	0.00	0.02	0.00	16.48	2.00	0.00	0.00	0.02	0.00
16.50	2.00	0.00	0.00	0.02	0.00	16.52	2.00	0.00	0.00	0.02	0.00
16.54	2.00	0.00	0.00	0.02	0.00	16.56	2.00	0.00	0.00	0.02	0.00
16.58	2.00	0.00	0.00	0.02	0.00	16.60	2.00	0.00	0.00	0.02	0.00
16.62	2.00	0.00	0.00	0.02	0.00	16.64	2.00	0.00	0.00	0.02	0.00
16.66	2.00	0.00	0.00	0.02	0.00	16.68	2.00	0.00	0.00	0.02	0.00
16.70	2.00	0.00	0.00	0.02	0.00	16.72	2.00	0.00	0.00	0.02	0.00
16.74	2.00	0.00	0.00	0.02	0.00	16.76	2.00	0.00	0.00	0.02	0.00
16.78	2.00	0.00	0.00	0.02	0.00	16.80	2.00	0.00	0.00	0.02	0.00
16.82	2.00	0.00	0.00	0.02	0.00	16.84	2.00	0.00	0.00	0.02	0.00
16.86	2.00	0.00	0.00	0.02	0.00	16.88	2.00	0.00	0.00	0.02	0.00
16.90	2.00	0.00	0.00	0.02	0.00	16.92	2.00	0.00	0.00	0.02	0.00
16.94	2.00	0.00	0.00	0.02	0.00	16.96	2.00	0.00	0.00	0.02	0.00
16.98	2.00	0.00	0.00	0.02	0.00	17.00	2.00	0.00	0.00	0.02	0.00
17.02	2.00	0.00	0.00	0.02	0.00	17.04	2.00	0.00	0.00	0.02	0.00
17.06	2.00	0.00	0.00	0.02	0.00	17.08	2.00	0.00	0.00	0.02	0.00
17.10	2.00	0.00	0.00	0.02	0.00	17.12	2.00	0.00	0.00	0.02	0.00
17.14	2.00	0.00	0.00	0.02	0.00	17.16	2.00	0.00	0.00	0.02	0.00
17.18	2.00	0.00	0.00	0.02	0.00	17.20	2.00	0.00	0.00	0.02	0.00
17.22	2.00	0.00	0.00	0.02	0.00	17.24	2.00	0.00	0.00	0.02	0.00
17.26	2.00	0.00	0.00	0.02	0.00	17.28	2.00	0.00	0.00	0.02	0.00
17.30	2.00	0.00	0.00	0.02	0.00	17.32	2.00	0.00	0.00	0.02	0.00
17.34	2.00	0.00	0.00	0.02	0.00	17.36	2.00	0.00	0.00	0.02	0.00
17.38	2.00	0.00	0.00	0.02	0.00	17.40	2.00	0.00	0.00	0.02	0.00
17.42	2.00	0.00	0.00	0.02	0.00	17.44	2.00	0.00	0.00	0.02	0.00
17.46	2.00	0.00	0.00	0.02	0.00	17.48	2.00	0.00	0.00	0.02	0.00
17.50	2.00	0.00	0.00	0.02	0.00	17.52	2.00	0.00	0.00	0.02	0.00
17.54	2.00	0.00	0.00	0.02	0.00	17.56	2.00	0.00	0.00	0.02	0.00
17.58	2.00	0.00	0.00	0.02	0.00	17.60	2.00	0.00	0.00	0.02	0.00
17.62	2.00	0.00	0.00	0.02	0.00	17.64	2.00	0.00	0.00	0.02	0.00
17.66	2.00	0.00	0.00	0.02	0.00	17.68	2.00	0.00	0.00	0.02	0.00
17.70	2.00	0.00	0.00	0.02	0.00	17.72	2.00	0.00	0.00	0.02	0.00
17.74	2.00	0.00	0.00	0.02	0.00	17.76	2.00	0.00	0.00	0.02	0.00
17.78	2.00	0.00	0.00	0.02	0.00	17.80	2.00	0.00	0.00	0.02	0.00
17.82	2.00	0.00	0.00	0.02	0.00	17.84	2.00	0.00	0.00	0.02	0.00
17.86	2.00	0.00	0.00	0.02	0.00	17.88	2.00	0.00	0.00	0.02	0.00
17.90	2.00	0.00	0.00	0.02	0.00	17.92	2.00	0.00	0.00	0.02	0.00
17.94	2.00	0.00	0.00	0.02	0.00	17.96	2.00	0.00	0.00	0.02	0.00
17.98	2.00	0.00	0.00	0.02	0.00	18.00	2.00	0.00	0.00	0.02	0.00
18.02	2.00	0.00	0.00	0.02	0.00	18.04	2.00	0.00	0.00	0.02	0.00
18.06	2.00	0.00	0.00	0.02	0.00	18.08	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
18.10	2.00	0.00	0.00	0.02	0.00	18.12	2.00	0.00	0.00	0.02	0.00
18.14	2.00	0.00	0.00	0.02	0.00	18.16	2.00	0.00	0.00	0.02	0.00
18.18	2.00	0.00	0.00	0.02	0.00	18.20	2.00	0.00	0.00	0.02	0.00
18.22	2.00	0.00	0.00	0.02	0.00	18.24	2.00	0.00	0.00	0.02	0.00
18.26	2.00	0.00	0.00	0.02	0.00	18.28	2.00	0.00	0.00	0.02	0.00
18.30	2.00	0.00	0.00	0.02	0.00	18.32	2.00	0.00	0.00	0.02	0.00
18.34	2.00	0.00	0.00	0.02	0.00	18.36	2.00	0.00	0.00	0.02	0.00
18.38	2.00	0.00	0.00	0.02	0.00	18.40	2.00	0.00	0.00	0.02	0.00
18.42	2.00	0.00	0.00	0.02	0.00	18.44	2.00	0.00	0.00	0.02	0.00
18.46	2.00	0.00	0.00	0.02	0.00	18.48	2.00	0.00	0.00	0.02	0.00
18.50	2.00	0.00	0.00	0.02	0.00	18.52	2.00	0.00	0.00	0.02	0.00
18.54	2.00	0.00	0.00	0.02	0.00	18.56	2.00	0.00	0.00	0.02	0.00
18.58	2.00	0.00	0.00	0.02	0.00	18.60	2.00	0.00	0.00	0.02	0.00
18.62	2.00	0.00	0.00	0.02	0.00	18.64	2.00	0.00	0.00	0.02	0.00
18.66	2.00	0.00	0.00	0.02	0.00	18.68	2.00	0.00	0.00	0.02	0.00
18.70	2.00	0.00	0.00	0.02	0.00	18.72	2.00	0.00	0.00	0.02	0.00
18.74	2.00	0.00	0.00	0.02	0.00	18.76	2.00	0.00	0.00	0.02	0.00
18.78	2.00	0.00	0.00	0.02	0.00	18.80	2.00	0.00	0.00	0.02	0.00
18.82	2.00	0.00	0.00	0.02	0.00	18.84	2.00	0.00	0.00	0.02	0.00
18.86	2.00	0.00	0.00	0.02	0.00	18.88	2.00	0.00	0.00	0.02	0.00
18.90	2.00	0.00	0.00	0.02	0.00	18.92	2.00	0.00	0.00	0.02	0.00
18.94	2.00	0.00	0.00	0.02	0.00	18.96	2.00	0.00	0.00	0.02	0.00
18.98	2.00	0.00	0.00	0.02	0.00	19.00	2.00	0.00	0.00	0.02	0.00
19.02	2.00	0.00	0.00	0.02	0.00	19.04	2.00	0.00	0.00	0.02	0.00
19.06	2.00	0.00	0.00	0.02	0.00	19.08	2.00	0.00	0.00	0.02	0.00
19.10	2.00	0.00	0.00	0.02	0.00	19.12	2.00	0.00	0.00	0.02	0.00
19.14	2.00	0.00	0.00	0.02	0.00	19.16	2.00	0.00	0.00	0.02	0.00
19.18	2.00	0.00	0.00	0.02	0.00	19.20	2.00	0.00	0.00	0.02	0.00
19.22	2.00	0.00	0.00	0.02	0.00	19.24	2.00	0.00	0.00	0.02	0.00
19.26	2.00	0.00	0.00	0.02	0.00	19.28	2.00	0.00	0.00	0.02	0.00
19.30	2.00	0.00	0.00	0.02	0.00	19.32	2.00	0.00	0.00	0.02	0.00
19.34	2.00	0.00	0.00	0.02	0.00	19.36	2.00	0.00	0.00	0.02	0.00
19.38	2.00	0.00	0.00	0.02	0.00	19.40	2.00	0.00	0.00	0.02	0.00
19.42	2.00	0.00	0.00	0.02	0.00						

Overall liquefaction potential: 10.97

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point

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http://www.geologismiki.gr

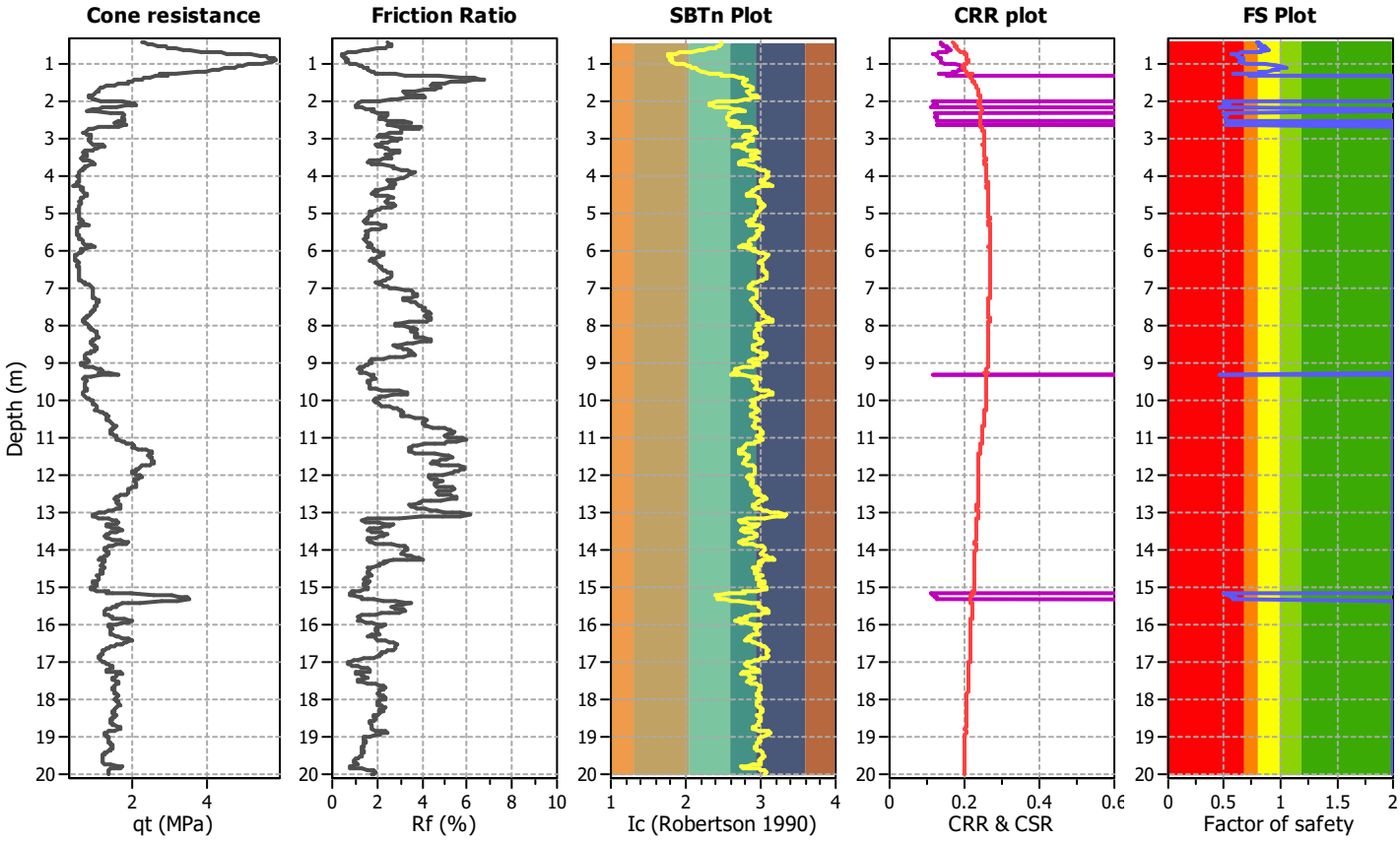
LIQUEFACTION ANALYSIS REPORT

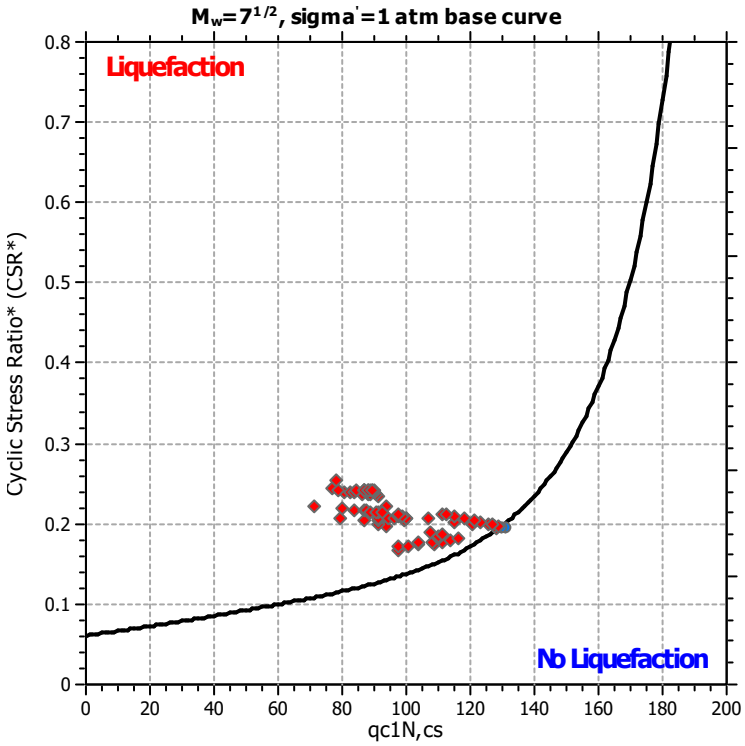
Project title : **Location :**

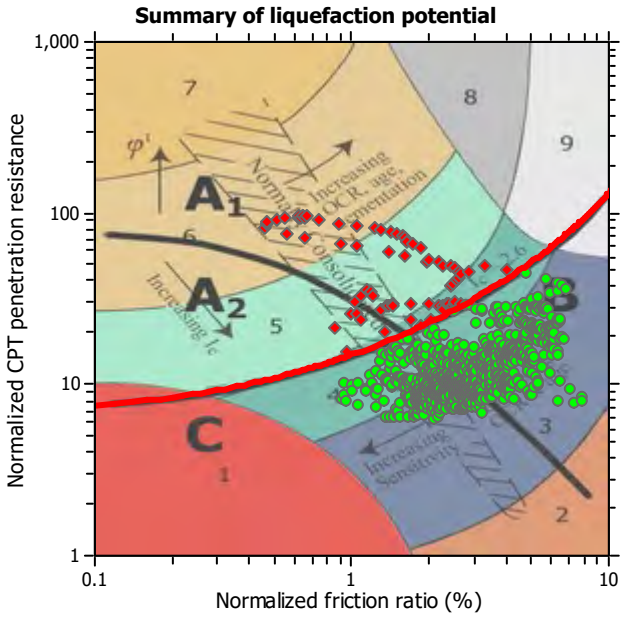
CPT file : SP273

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	0.20 m	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	0.20 m	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.14	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.23	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

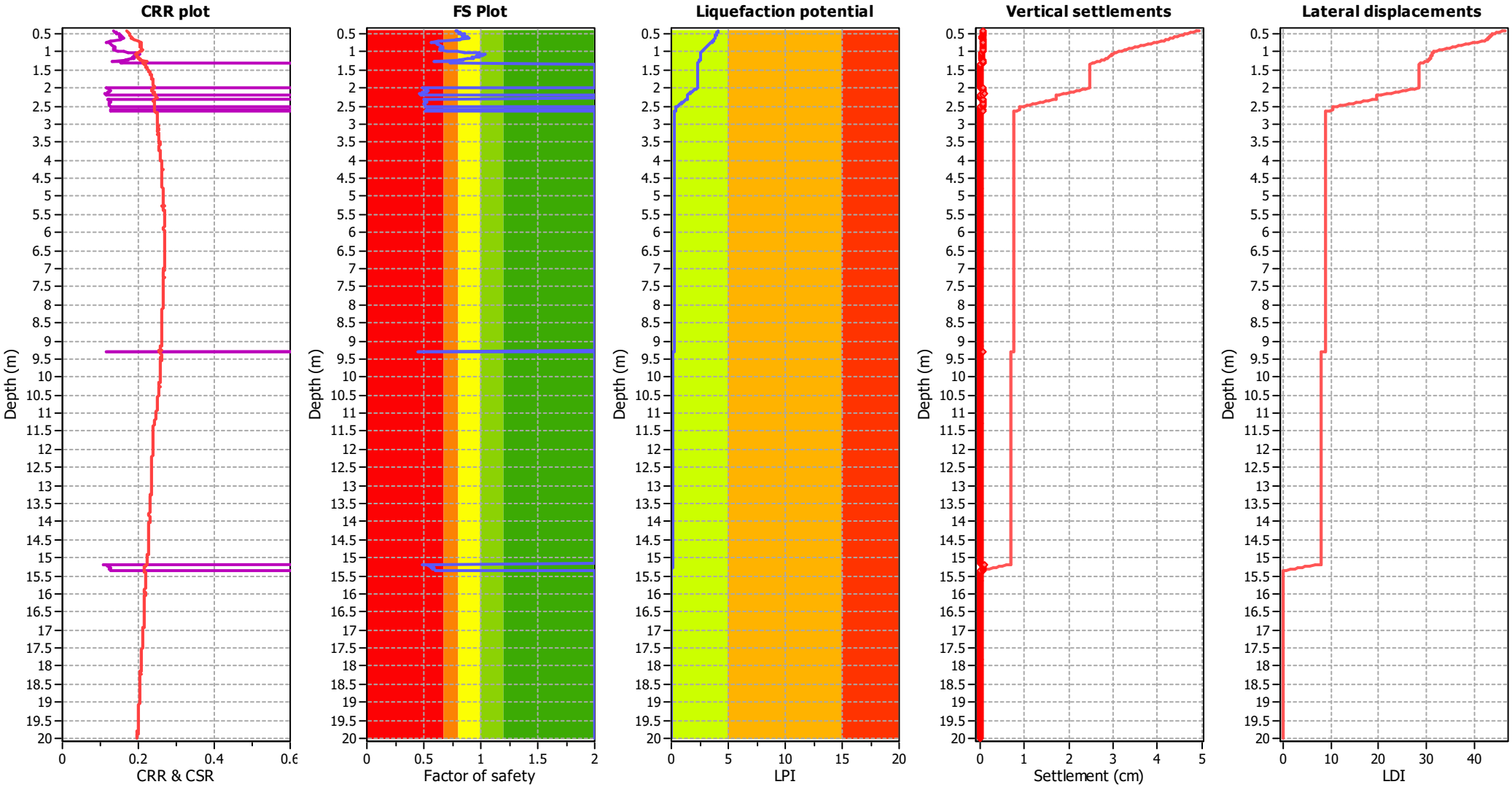






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and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

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	0.20 m	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.14	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.23	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	0.20 m	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

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

LPI color scheme

- Very high risk
- High risk
- Low risk

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
0.42	0.80	0.20	1.66	0.02	0.04	0.44	0.79	0.21	1.49	0.02	0.04
0.46	0.80	0.20	1.70	0.02	0.04	0.48	0.82	0.18	2.06	0.02	0.03
0.50	0.81	0.19	1.81	0.02	0.04	0.52	0.86	0.14	2.94	0.02	0.03
0.54	0.84	0.16	2.38	0.02	0.03	0.56	0.87	0.13	3.26	0.02	0.03
0.58	0.84	0.16	2.40	0.02	0.03	0.60	0.88	0.12	4.17	0.02	0.02
0.62	0.83	0.17	2.16	0.02	0.03	0.64	0.90	0.10	5.48	0.02	0.02
0.66	0.79	0.21	1.51	0.02	0.04	0.68	0.82	0.18	2.03	0.02	0.03
0.70	0.65	0.35	0.76	0.02	0.07	0.72	0.63	0.37	0.71	0.02	0.07
0.74	0.56	0.44	0.56	0.02	0.09	0.76	0.60	0.40	0.63	0.02	0.08
0.78	0.62	0.38	0.68	0.02	0.07	0.80	0.62	0.38	0.67	0.02	0.07
0.82	0.64	0.36	0.71	0.02	0.07	0.84	0.64	0.36	0.73	0.02	0.07
0.86	0.66	0.34	0.79	0.02	0.06	0.88	0.66	0.34	0.79	0.02	0.06
0.90	0.66	0.34	0.79	0.02	0.06	0.92	0.64	0.36	0.73	0.02	0.07
0.94	0.65	0.35	0.74	0.02	0.07	0.96	0.64	0.36	0.71	0.02	0.07
0.98	0.71	0.29	0.96	0.02	0.06	1.00	0.80	0.20	1.62	0.02	0.04
1.02	0.86	0.14	3.18	0.02	0.03	1.04	0.99	0.01	7677016.69	0.02	0.00
1.06	0.97	0.03	2136.47	0.02	0.00	1.08	1.04	0.00	0.00	0.02	0.00
1.10	1.01	0.00	0.00	0.02	0.00	1.12	0.96	0.04	147.16	0.02	0.01
1.14	0.98	0.02	30595.77	0.02	0.00	1.16	0.93	0.07	13.66	0.02	0.01
1.18	0.94	0.06	23.88	0.02	0.01	1.20	0.88	0.12	4.45	0.02	0.02
1.22	0.81	0.19	1.77	0.02	0.04	1.24	0.85	0.15	2.64	0.02	0.03
1.26	0.59	0.41	0.61	0.02	0.08	1.28	0.77	0.23	1.34	0.02	0.04
1.30	0.73	0.27	1.04	0.02	0.05	1.32	0.74	0.26	1.12	0.02	0.05
1.34	2.00	0.00	0.00	0.02	0.00	1.36	2.00	0.00	0.00	0.02	0.00
1.38	2.00	0.00	0.00	0.02	0.00	1.40	2.00	0.00	0.00	0.02	0.00
1.42	2.00	0.00	0.00	0.02	0.00	1.44	2.00	0.00	0.00	0.02	0.00
1.46	2.00	0.00	0.00	0.02	0.00	1.48	2.00	0.00	0.00	0.02	0.00
1.50	2.00	0.00	0.00	0.02	0.00	1.52	2.00	0.00	0.00	0.02	0.00
1.54	2.00	0.00	0.00	0.02	0.00	1.56	2.00	0.00	0.00	0.02	0.00
1.58	2.00	0.00	0.00	0.02	0.00	1.60	2.00	0.00	0.00	0.02	0.00
1.62	2.00	0.00	0.00	0.02	0.00	1.64	2.00	0.00	0.00	0.02	0.00
1.66	2.00	0.00	0.00	0.02	0.00	1.68	2.00	0.00	0.00	0.02	0.00
1.70	2.00	0.00	0.00	0.02	0.00	1.72	2.00	0.00	0.00	0.02	0.00
1.74	2.00	0.00	0.00	0.02	0.00	1.76	2.00	0.00	0.00	0.02	0.00
1.78	2.00	0.00	0.00	0.02	0.00	1.80	2.00	0.00	0.00	0.02	0.00
1.82	2.00	0.00	0.00	0.02	0.00	1.84	2.00	0.00	0.00	0.02	0.00
1.86	2.00	0.00	0.00	0.02	0.00	1.88	2.00	0.00	0.00	0.02	0.00
1.90	2.00	0.00	0.00	0.02	0.00	1.92	2.00	0.00	0.00	0.02	0.00
1.94	2.00	0.00	0.00	0.02	0.00	1.96	2.00	0.00	0.00	0.02	0.00
1.98	2.00	0.00	0.00	0.02	0.00	2.00	0.49	0.51	0.46	0.02	0.09
2.02	0.52	0.48	0.51	0.02	0.09	2.04	0.51	0.49	0.49	0.02	0.09
2.06	0.54	0.46	0.53	0.02	0.08	2.08	0.54	0.46	0.52	0.02	0.08
2.10	0.53	0.47	0.51	0.02	0.08	2.12	0.49	0.51	0.47	0.02	0.09
2.14	0.50	0.50	0.48	0.02	0.09	2.16	0.46	0.54	0.44	0.02	0.10
2.18	0.47	0.53	0.45	0.02	0.09	2.20	2.00	0.00	0.00	0.02	0.00
2.22	2.00	0.00	0.00	0.02	0.00	2.24	2.00	0.00	0.00	0.02	0.00
2.26	2.00	0.00	0.00	0.02	0.00	2.28	2.00	0.00	0.00	0.02	0.00
2.30	0.49	0.51	0.47	0.02	0.09	2.32	0.51	0.49	0.49	0.02	0.09

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
2.34	0.51	0.49	0.49	0.02	0.09	2.36	0.52	0.48	0.51	0.02	0.08
2.38	0.52	0.48	0.51	0.02	0.08	2.40	0.52	0.48	0.50	0.02	0.09
2.42	0.51	0.49	0.49	0.02	0.09	2.44	0.50	0.50	0.48	0.02	0.09
2.46	0.51	0.49	0.49	0.02	0.09	2.48	0.51	0.49	0.49	0.02	0.09
2.50	0.52	0.48	0.50	0.02	0.08	2.52	2.00	0.00	0.00	0.02	0.00
2.54	2.00	0.00	0.00	0.02	0.00	2.56	2.00	0.00	0.00	0.02	0.00
2.58	2.00	0.00	0.00	0.02	0.00	2.60	2.00	0.00	0.00	0.02	0.00
2.62	0.52	0.48	0.50	0.02	0.08	2.64	0.52	0.48	0.50	0.02	0.08
2.66	2.00	0.00	0.00	0.02	0.00	2.68	2.00	0.00	0.00	0.02	0.00
2.70	2.00	0.00	0.00	0.02	0.00	2.72	2.00	0.00	0.00	0.02	0.00
2.74	2.00	0.00	0.00	0.02	0.00	2.76	2.00	0.00	0.00	0.02	0.00
2.78	2.00	0.00	0.00	0.02	0.00	2.80	2.00	0.00	0.00	0.02	0.00
2.82	2.00	0.00	0.00	0.02	0.00	2.84	2.00	0.00	0.00	0.02	0.00
2.86	2.00	0.00	0.00	0.02	0.00	2.88	2.00	0.00	0.00	0.02	0.00
2.90	2.00	0.00	0.00	0.02	0.00	2.92	2.00	0.00	0.00	0.02	0.00
2.94	2.00	0.00	0.00	0.02	0.00	2.96	2.00	0.00	0.00	0.02	0.00
2.98	2.00	0.00	0.00	0.02	0.00	3.00	2.00	0.00	0.00	0.02	0.00
3.02	2.00	0.00	0.00	0.02	0.00	3.04	2.00	0.00	0.00	0.02	0.00
3.06	2.00	0.00	0.00	0.02	0.00	3.08	2.00	0.00	0.00	0.02	0.00
3.10	2.00	0.00	0.00	0.02	0.00	3.12	2.00	0.00	0.00	0.02	0.00
3.14	2.00	0.00	0.00	0.02	0.00	3.16	2.00	0.00	0.00	0.02	0.00
3.18	2.00	0.00	0.00	0.02	0.00	3.20	2.00	0.00	0.00	0.02	0.00
3.22	2.00	0.00	0.00	0.02	0.00	3.24	2.00	0.00	0.00	0.02	0.00
3.26	2.00	0.00	0.00	0.02	0.00	3.28	2.00	0.00	0.00	0.02	0.00
3.30	2.00	0.00	0.00	0.02	0.00	3.32	2.00	0.00	0.00	0.02	0.00
3.34	2.00	0.00	0.00	0.02	0.00	3.36	2.00	0.00	0.00	0.02	0.00
3.38	2.00	0.00	0.00	0.02	0.00	3.40	2.00	0.00	0.00	0.02	0.00
3.42	2.00	0.00	0.00	0.02	0.00	3.44	2.00	0.00	0.00	0.02	0.00
3.46	2.00	0.00	0.00	0.02	0.00	3.48	2.00	0.00	0.00	0.02	0.00
3.50	2.00	0.00	0.00	0.02	0.00	3.52	2.00	0.00	0.00	0.02	0.00
3.54	2.00	0.00	0.00	0.02	0.00	3.56	2.00	0.00	0.00	0.02	0.00
3.58	2.00	0.00	0.00	0.02	0.00	3.60	2.00	0.00	0.00	0.02	0.00
3.62	2.00	0.00	0.00	0.02	0.00	3.64	2.00	0.00	0.00	0.02	0.00
3.66	2.00	0.00	0.00	0.02	0.00	3.68	2.00	0.00	0.00	0.02	0.00
3.70	2.00	0.00	0.00	0.02	0.00	3.72	2.00	0.00	0.00	0.02	0.00
3.74	2.00	0.00	0.00	0.02	0.00	3.76	2.00	0.00	0.00	0.02	0.00
3.78	2.00	0.00	0.00	0.02	0.00	3.80	2.00	0.00	0.00	0.02	0.00
3.82	2.00	0.00	0.00	0.02	0.00	3.84	2.00	0.00	0.00	0.02	0.00
3.86	2.00	0.00	0.00	0.02	0.00	3.88	2.00	0.00	0.00	0.02	0.00
3.90	2.00	0.00	0.00	0.02	0.00	3.92	2.00	0.00	0.00	0.02	0.00
3.94	2.00	0.00	0.00	0.02	0.00	3.96	2.00	0.00	0.00	0.02	0.00
3.98	2.00	0.00	0.00	0.02	0.00	4.00	2.00	0.00	0.00	0.02	0.00
4.02	2.00	0.00	0.00	0.02	0.00	4.04	2.00	0.00	0.00	0.02	0.00
4.06	2.00	0.00	0.00	0.02	0.00	4.08	2.00	0.00	0.00	0.02	0.00
4.10	2.00	0.00	0.00	0.02	0.00	4.12	2.00	0.00	0.00	0.02	0.00
4.14	2.00	0.00	0.00	0.02	0.00	4.16	2.00	0.00	0.00	0.02	0.00
4.18	2.00	0.00	0.00	0.02	0.00	4.20	2.00	0.00	0.00	0.02	0.00
4.22	2.00	0.00	0.00	0.02	0.00	4.24	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
4.26	2.00	0.00	0.00	0.02	0.00	4.28	2.00	0.00	0.00	0.02	0.00
4.30	2.00	0.00	0.00	0.02	0.00	4.32	2.00	0.00	0.00	0.02	0.00
4.34	2.00	0.00	0.00	0.02	0.00	4.36	2.00	0.00	0.00	0.02	0.00
4.38	2.00	0.00	0.00	0.02	0.00	4.40	2.00	0.00	0.00	0.02	0.00
4.42	2.00	0.00	0.00	0.02	0.00	4.44	2.00	0.00	0.00	0.02	0.00
4.46	2.00	0.00	0.00	0.02	0.00	4.48	2.00	0.00	0.00	0.02	0.00
4.50	2.00	0.00	0.00	0.02	0.00	4.52	2.00	0.00	0.00	0.02	0.00
4.54	2.00	0.00	0.00	0.02	0.00	4.56	2.00	0.00	0.00	0.02	0.00
4.58	2.00	0.00	0.00	0.02	0.00	4.60	2.00	0.00	0.00	0.02	0.00
4.62	2.00	0.00	0.00	0.02	0.00	4.64	2.00	0.00	0.00	0.02	0.00
4.66	2.00	0.00	0.00	0.02	0.00	4.68	2.00	0.00	0.00	0.02	0.00
4.70	2.00	0.00	0.00	0.02	0.00	4.72	2.00	0.00	0.00	0.02	0.00
4.74	2.00	0.00	0.00	0.02	0.00	4.76	2.00	0.00	0.00	0.02	0.00
4.78	2.00	0.00	0.00	0.02	0.00	4.80	2.00	0.00	0.00	0.02	0.00
4.82	2.00	0.00	0.00	0.02	0.00	4.84	2.00	0.00	0.00	0.02	0.00
4.86	2.00	0.00	0.00	0.02	0.00	4.88	2.00	0.00	0.00	0.02	0.00
4.90	2.00	0.00	0.00	0.02	0.00	4.92	2.00	0.00	0.00	0.02	0.00
4.94	2.00	0.00	0.00	0.02	0.00	4.96	2.00	0.00	0.00	0.02	0.00
4.98	2.00	0.00	0.00	0.02	0.00	5.00	2.00	0.00	0.00	0.02	0.00
5.02	2.00	0.00	0.00	0.02	0.00	5.04	2.00	0.00	0.00	0.02	0.00
5.06	2.00	0.00	0.00	0.02	0.00	5.08	2.00	0.00	0.00	0.02	0.00
5.10	2.00	0.00	0.00	0.02	0.00	5.12	2.00	0.00	0.00	0.02	0.00
5.14	2.00	0.00	0.00	0.02	0.00	5.16	2.00	0.00	0.00	0.02	0.00
5.18	2.00	0.00	0.00	0.02	0.00	5.20	2.00	0.00	0.00	0.02	0.00
5.22	2.00	0.00	0.00	0.02	0.00	5.24	2.00	0.00	0.00	0.02	0.00
5.26	2.00	0.00	0.00	0.02	0.00	5.28	2.00	0.00	0.00	0.02	0.00
5.30	2.00	0.00	0.00	0.02	0.00	5.32	2.00	0.00	0.00	0.02	0.00
5.34	2.00	0.00	0.00	0.02	0.00	5.36	2.00	0.00	0.00	0.02	0.00
5.38	2.00	0.00	0.00	0.02	0.00	5.40	2.00	0.00	0.00	0.02	0.00
5.42	2.00	0.00	0.00	0.02	0.00	5.44	2.00	0.00	0.00	0.02	0.00
5.46	2.00	0.00	0.00	0.02	0.00	5.48	2.00	0.00	0.00	0.02	0.00
5.50	2.00	0.00	0.00	0.02	0.00	5.52	2.00	0.00	0.00	0.02	0.00
5.54	2.00	0.00	0.00	0.02	0.00	5.56	2.00	0.00	0.00	0.02	0.00
5.58	2.00	0.00	0.00	0.02	0.00	5.60	2.00	0.00	0.00	0.02	0.00
5.62	2.00	0.00	0.00	0.02	0.00	5.64	2.00	0.00	0.00	0.02	0.00
5.66	2.00	0.00	0.00	0.02	0.00	5.68	2.00	0.00	0.00	0.02	0.00
5.70	2.00	0.00	0.00	0.02	0.00	5.72	2.00	0.00	0.00	0.02	0.00
5.74	2.00	0.00	0.00	0.02	0.00	5.76	2.00	0.00	0.00	0.02	0.00
5.78	2.00	0.00	0.00	0.02	0.00	5.80	2.00	0.00	0.00	0.02	0.00
5.82	2.00	0.00	0.00	0.02	0.00	5.84	2.00	0.00	0.00	0.02	0.00
5.86	2.00	0.00	0.00	0.02	0.00	5.88	2.00	0.00	0.00	0.02	0.00
5.90	2.00	0.00	0.00	0.02	0.00	5.92	2.00	0.00	0.00	0.02	0.00
5.94	2.00	0.00	0.00	0.02	0.00	5.96	2.00	0.00	0.00	0.02	0.00
5.98	2.00	0.00	0.00	0.02	0.00	6.00	2.00	0.00	0.00	0.02	0.00
6.02	2.00	0.00	0.00	0.02	0.00	6.04	2.00	0.00	0.00	0.02	0.00
6.06	2.00	0.00	0.00	0.02	0.00	6.08	2.00	0.00	0.00	0.02	0.00
6.10	2.00	0.00	0.00	0.02	0.00	6.12	2.00	0.00	0.00	0.02	0.00
6.14	2.00	0.00	0.00	0.02	0.00	6.16	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
6.18	2.00	0.00	0.00	0.02	0.00	6.20	2.00	0.00	0.00	0.02	0.00
6.22	2.00	0.00	0.00	0.02	0.00	6.24	2.00	0.00	0.00	0.02	0.00
6.26	2.00	0.00	0.00	0.02	0.00	6.28	2.00	0.00	0.00	0.02	0.00
6.30	2.00	0.00	0.00	0.02	0.00	6.32	2.00	0.00	0.00	0.02	0.00
6.34	2.00	0.00	0.00	0.02	0.00	6.36	2.00	0.00	0.00	0.02	0.00
6.38	2.00	0.00	0.00	0.02	0.00	6.40	2.00	0.00	0.00	0.02	0.00
6.42	2.00	0.00	0.00	0.02	0.00	6.44	2.00	0.00	0.00	0.02	0.00
6.46	2.00	0.00	0.00	0.02	0.00	6.48	2.00	0.00	0.00	0.02	0.00
6.50	2.00	0.00	0.00	0.02	0.00	6.52	2.00	0.00	0.00	0.02	0.00
6.54	2.00	0.00	0.00	0.02	0.00	6.56	2.00	0.00	0.00	0.02	0.00
6.58	2.00	0.00	0.00	0.02	0.00	6.60	2.00	0.00	0.00	0.02	0.00
6.62	2.00	0.00	0.00	0.02	0.00	6.64	2.00	0.00	0.00	0.02	0.00
6.66	2.00	0.00	0.00	0.02	0.00	6.68	2.00	0.00	0.00	0.02	0.00
6.70	2.00	0.00	0.00	0.02	0.00	6.72	2.00	0.00	0.00	0.02	0.00
6.74	2.00	0.00	0.00	0.02	0.00	6.76	2.00	0.00	0.00	0.02	0.00
6.78	2.00	0.00	0.00	0.02	0.00	6.80	2.00	0.00	0.00	0.02	0.00
6.82	2.00	0.00	0.00	0.02	0.00	6.84	2.00	0.00	0.00	0.02	0.00
6.86	2.00	0.00	0.00	0.02	0.00	6.88	2.00	0.00	0.00	0.02	0.00
6.90	2.00	0.00	0.00	0.02	0.00	6.92	2.00	0.00	0.00	0.02	0.00
6.94	2.00	0.00	0.00	0.02	0.00	6.96	2.00	0.00	0.00	0.02	0.00
6.98	2.00	0.00	0.00	0.02	0.00	7.00	2.00	0.00	0.00	0.02	0.00
7.02	2.00	0.00	0.00	0.02	0.00	7.04	2.00	0.00	0.00	0.02	0.00
7.06	2.00	0.00	0.00	0.02	0.00	7.08	2.00	0.00	0.00	0.02	0.00
7.10	2.00	0.00	0.00	0.02	0.00	7.12	2.00	0.00	0.00	0.02	0.00
7.14	2.00	0.00	0.00	0.02	0.00	7.16	2.00	0.00	0.00	0.02	0.00
7.18	2.00	0.00	0.00	0.02	0.00	7.20	2.00	0.00	0.00	0.02	0.00
7.22	2.00	0.00	0.00	0.02	0.00	7.24	2.00	0.00	0.00	0.02	0.00
7.26	2.00	0.00	0.00	0.02	0.00	7.28	2.00	0.00	0.00	0.02	0.00
7.30	2.00	0.00	0.00	0.02	0.00	7.32	2.00	0.00	0.00	0.02	0.00
7.34	2.00	0.00	0.00	0.02	0.00	7.36	2.00	0.00	0.00	0.02	0.00
7.38	2.00	0.00	0.00	0.02	0.00	7.40	2.00	0.00	0.00	0.02	0.00
7.42	2.00	0.00	0.00	0.02	0.00	7.44	2.00	0.00	0.00	0.02	0.00
7.46	2.00	0.00	0.00	0.02	0.00	7.48	2.00	0.00	0.00	0.02	0.00
7.50	2.00	0.00	0.00	0.02	0.00	7.52	2.00	0.00	0.00	0.02	0.00
7.54	2.00	0.00	0.00	0.02	0.00	7.56	2.00	0.00	0.00	0.02	0.00
7.58	2.00	0.00	0.00	0.02	0.00	7.60	2.00	0.00	0.00	0.02	0.00
7.62	2.00	0.00	0.00	0.02	0.00	7.64	2.00	0.00	0.00	0.02	0.00
7.66	2.00	0.00	0.00	0.02	0.00	7.68	2.00	0.00	0.00	0.02	0.00
7.70	2.00	0.00	0.00	0.02	0.00	7.72	2.00	0.00	0.00	0.02	0.00
7.74	2.00	0.00	0.00	0.02	0.00	7.76	2.00	0.00	0.00	0.02	0.00
7.78	2.00	0.00	0.00	0.02	0.00	7.80	2.00	0.00	0.00	0.02	0.00
7.82	2.00	0.00	0.00	0.02	0.00	7.84	2.00	0.00	0.00	0.02	0.00
7.86	2.00	0.00	0.00	0.02	0.00	7.88	2.00	0.00	0.00	0.02	0.00
7.90	2.00	0.00	0.00	0.02	0.00	7.92	2.00	0.00	0.00	0.02	0.00
7.94	2.00	0.00	0.00	0.02	0.00	7.96	2.00	0.00	0.00	0.02	0.00
7.98	2.00	0.00	0.00	0.02	0.00	8.00	2.00	0.00	0.00	0.02	0.00
8.02	2.00	0.00	0.00	0.02	0.00	8.04	2.00	0.00	0.00	0.02	0.00
8.06	2.00	0.00	0.00	0.02	0.00	8.08	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
8.10	2.00	0.00	0.00	0.02	0.00	8.12	2.00	0.00	0.00	0.02	0.00
8.14	2.00	0.00	0.00	0.02	0.00	8.16	2.00	0.00	0.00	0.02	0.00
8.18	2.00	0.00	0.00	0.02	0.00	8.20	2.00	0.00	0.00	0.02	0.00
8.22	2.00	0.00	0.00	0.02	0.00	8.24	2.00	0.00	0.00	0.02	0.00
8.26	2.00	0.00	0.00	0.02	0.00	8.28	2.00	0.00	0.00	0.02	0.00
8.30	2.00	0.00	0.00	0.02	0.00	8.32	2.00	0.00	0.00	0.02	0.00
8.34	2.00	0.00	0.00	0.02	0.00	8.36	2.00	0.00	0.00	0.02	0.00
8.38	2.00	0.00	0.00	0.02	0.00	8.40	2.00	0.00	0.00	0.02	0.00
8.42	2.00	0.00	0.00	0.02	0.00	8.44	2.00	0.00	0.00	0.02	0.00
8.46	2.00	0.00	0.00	0.02	0.00	8.48	2.00	0.00	0.00	0.02	0.00
8.50	2.00	0.00	0.00	0.02	0.00	8.52	2.00	0.00	0.00	0.02	0.00
8.54	2.00	0.00	0.00	0.02	0.00	8.56	2.00	0.00	0.00	0.02	0.00
8.58	2.00	0.00	0.00	0.02	0.00	8.60	2.00	0.00	0.00	0.02	0.00
8.62	2.00	0.00	0.00	0.02	0.00	8.64	2.00	0.00	0.00	0.02	0.00
8.66	2.00	0.00	0.00	0.02	0.00	8.68	2.00	0.00	0.00	0.02	0.00
8.70	2.00	0.00	0.00	0.02	0.00	8.72	2.00	0.00	0.00	0.02	0.00
8.74	2.00	0.00	0.00	0.02	0.00	8.76	2.00	0.00	0.00	0.02	0.00
8.78	2.00	0.00	0.00	0.02	0.00	8.80	2.00	0.00	0.00	0.02	0.00
8.82	2.00	0.00	0.00	0.02	0.00	8.84	2.00	0.00	0.00	0.02	0.00
8.86	2.00	0.00	0.00	0.02	0.00	8.88	2.00	0.00	0.00	0.02	0.00
8.90	2.00	0.00	0.00	0.02	0.00	8.92	2.00	0.00	0.00	0.02	0.00
8.94	2.00	0.00	0.00	0.02	0.00	8.96	2.00	0.00	0.00	0.02	0.00
8.98	2.00	0.00	0.00	0.02	0.00	9.00	2.00	0.00	0.00	0.02	0.00
9.02	2.00	0.00	0.00	0.02	0.00	9.04	2.00	0.00	0.00	0.02	0.00
9.06	2.00	0.00	0.00	0.02	0.00	9.08	2.00	0.00	0.00	0.02	0.00
9.10	2.00	0.00	0.00	0.02	0.00	9.12	2.00	0.00	0.00	0.02	0.00
9.14	2.00	0.00	0.00	0.02	0.00	9.16	2.00	0.00	0.00	0.02	0.00
9.18	2.00	0.00	0.00	0.02	0.00	9.20	2.00	0.00	0.00	0.02	0.00
9.22	2.00	0.00	0.00	0.02	0.00	9.24	2.00	0.00	0.00	0.02	0.00
9.26	2.00	0.00	0.00	0.02	0.00	9.28	2.00	0.00	0.00	0.02	0.00
9.30	0.45	0.55	0.42	0.02	0.06	9.32	2.00	0.00	0.00	0.02	0.00
9.34	2.00	0.00	0.00	0.02	0.00	9.36	2.00	0.00	0.00	0.02	0.00
9.38	2.00	0.00	0.00	0.02	0.00	9.40	2.00	0.00	0.00	0.02	0.00
9.42	2.00	0.00	0.00	0.02	0.00	9.44	2.00	0.00	0.00	0.02	0.00
9.46	2.00	0.00	0.00	0.02	0.00	9.48	2.00	0.00	0.00	0.02	0.00
9.50	2.00	0.00	0.00	0.02	0.00	9.52	2.00	0.00	0.00	0.02	0.00
9.54	2.00	0.00	0.00	0.02	0.00	9.56	2.00	0.00	0.00	0.02	0.00
9.58	2.00	0.00	0.00	0.02	0.00	9.60	2.00	0.00	0.00	0.02	0.00
9.62	2.00	0.00	0.00	0.02	0.00	9.64	2.00	0.00	0.00	0.02	0.00
9.66	2.00	0.00	0.00	0.02	0.00	9.68	2.00	0.00	0.00	0.02	0.00
9.70	2.00	0.00	0.00	0.02	0.00	9.72	2.00	0.00	0.00	0.02	0.00
9.74	2.00	0.00	0.00	0.02	0.00	9.76	2.00	0.00	0.00	0.02	0.00
9.78	2.00	0.00	0.00	0.02	0.00	9.80	2.00	0.00	0.00	0.02	0.00
9.82	2.00	0.00	0.00	0.02	0.00	9.84	2.00	0.00	0.00	0.02	0.00
9.86	2.00	0.00	0.00	0.02	0.00	9.88	2.00	0.00	0.00	0.02	0.00
9.90	2.00	0.00	0.00	0.02	0.00	9.92	2.00	0.00	0.00	0.02	0.00
9.94	2.00	0.00	0.00	0.02	0.00	9.96	2.00	0.00	0.00	0.02	0.00
9.98	2.00	0.00	0.00	0.02	0.00	10.00	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
10.02	2.00	0.00	0.00	0.02	0.00	10.04	2.00	0.00	0.00	0.02	0.00
10.06	2.00	0.00	0.00	0.02	0.00	10.08	2.00	0.00	0.00	0.02	0.00
10.10	2.00	0.00	0.00	0.02	0.00	10.12	2.00	0.00	0.00	0.02	0.00
10.14	2.00	0.00	0.00	0.02	0.00	10.16	2.00	0.00	0.00	0.02	0.00
10.18	2.00	0.00	0.00	0.02	0.00	10.20	2.00	0.00	0.00	0.02	0.00
10.22	2.00	0.00	0.00	0.02	0.00	10.24	2.00	0.00	0.00	0.02	0.00
10.26	2.00	0.00	0.00	0.02	0.00	10.28	2.00	0.00	0.00	0.02	0.00
10.30	2.00	0.00	0.00	0.02	0.00	10.32	2.00	0.00	0.00	0.02	0.00
10.34	2.00	0.00	0.00	0.02	0.00	10.36	2.00	0.00	0.00	0.02	0.00
10.38	2.00	0.00	0.00	0.02	0.00	10.40	2.00	0.00	0.00	0.02	0.00
10.42	2.00	0.00	0.00	0.02	0.00	10.44	2.00	0.00	0.00	0.02	0.00
10.46	2.00	0.00	0.00	0.02	0.00	10.48	2.00	0.00	0.00	0.02	0.00
10.50	2.00	0.00	0.00	0.02	0.00	10.52	2.00	0.00	0.00	0.02	0.00
10.54	2.00	0.00	0.00	0.02	0.00	10.56	2.00	0.00	0.00	0.02	0.00
10.58	2.00	0.00	0.00	0.02	0.00	10.60	2.00	0.00	0.00	0.02	0.00
10.62	2.00	0.00	0.00	0.02	0.00	10.64	2.00	0.00	0.00	0.02	0.00
10.66	2.00	0.00	0.00	0.02	0.00	10.68	2.00	0.00	0.00	0.02	0.00
10.70	2.00	0.00	0.00	0.02	0.00	10.72	2.00	0.00	0.00	0.02	0.00
10.74	2.00	0.00	0.00	0.02	0.00	10.76	2.00	0.00	0.00	0.02	0.00
10.78	2.00	0.00	0.00	0.02	0.00	10.80	2.00	0.00	0.00	0.02	0.00
10.82	2.00	0.00	0.00	0.02	0.00	10.84	2.00	0.00	0.00	0.02	0.00
10.86	2.00	0.00	0.00	0.02	0.00	10.88	2.00	0.00	0.00	0.02	0.00
10.90	2.00	0.00	0.00	0.02	0.00	10.92	2.00	0.00	0.00	0.02	0.00
10.94	2.00	0.00	0.00	0.02	0.00	10.96	2.00	0.00	0.00	0.02	0.00
10.98	2.00	0.00	0.00	0.02	0.00	11.00	2.00	0.00	0.00	0.02	0.00
11.02	2.00	0.00	0.00	0.02	0.00	11.04	2.00	0.00	0.00	0.02	0.00
11.06	2.00	0.00	0.00	0.02	0.00	11.08	2.00	0.00	0.00	0.02	0.00
11.10	2.00	0.00	0.00	0.02	0.00	11.12	2.00	0.00	0.00	0.02	0.00
11.14	2.00	0.00	0.00	0.02	0.00	11.16	2.00	0.00	0.00	0.02	0.00
11.18	2.00	0.00	0.00	0.02	0.00	11.20	2.00	0.00	0.00	0.02	0.00
11.22	2.00	0.00	0.00	0.02	0.00	11.24	2.00	0.00	0.00	0.02	0.00
11.26	2.00	0.00	0.00	0.02	0.00	11.28	2.00	0.00	0.00	0.02	0.00
11.30	2.00	0.00	0.00	0.02	0.00	11.32	2.00	0.00	0.00	0.02	0.00
11.34	2.00	0.00	0.00	0.02	0.00	11.36	2.00	0.00	0.00	0.02	0.00
11.38	2.00	0.00	0.00	0.02	0.00	11.40	2.00	0.00	0.00	0.02	0.00
11.42	2.00	0.00	0.00	0.02	0.00	11.44	2.00	0.00	0.00	0.02	0.00
11.46	2.00	0.00	0.00	0.02	0.00	11.48	2.00	0.00	0.00	0.02	0.00
11.50	2.00	0.00	0.00	0.02	0.00	11.52	2.00	0.00	0.00	0.02	0.00
11.54	2.00	0.00	0.00	0.02	0.00	11.56	2.00	0.00	0.00	0.02	0.00
11.58	2.00	0.00	0.00	0.02	0.00	11.60	2.00	0.00	0.00	0.02	0.00
11.62	2.00	0.00	0.00	0.02	0.00	11.64	2.00	0.00	0.00	0.02	0.00
11.66	2.00	0.00	0.00	0.02	0.00	11.68	2.00	0.00	0.00	0.02	0.00
11.70	2.00	0.00	0.00	0.02	0.00	11.72	2.00	0.00	0.00	0.02	0.00
11.74	2.00	0.00	0.00	0.02	0.00	11.76	2.00	0.00	0.00	0.02	0.00
11.78	2.00	0.00	0.00	0.02	0.00	11.80	2.00	0.00	0.00	0.02	0.00
11.82	2.00	0.00	0.00	0.02	0.00	11.84	2.00	0.00	0.00	0.02	0.00
11.86	2.00	0.00	0.00	0.02	0.00	11.88	2.00	0.00	0.00	0.02	0.00
11.90	2.00	0.00	0.00	0.02	0.00	11.92	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
11.94	2.00	0.00	0.00	0.02	0.00	11.96	2.00	0.00	0.00	0.02	0.00
11.98	2.00	0.00	0.00	0.02	0.00	12.00	2.00	0.00	0.00	0.02	0.00
12.02	2.00	0.00	0.00	0.02	0.00	12.04	2.00	0.00	0.00	0.02	0.00
12.06	2.00	0.00	0.00	0.02	0.00	12.08	2.00	0.00	0.00	0.02	0.00
12.10	2.00	0.00	0.00	0.02	0.00	12.12	2.00	0.00	0.00	0.02	0.00
12.14	2.00	0.00	0.00	0.02	0.00	12.16	2.00	0.00	0.00	0.02	0.00
12.18	2.00	0.00	0.00	0.02	0.00	12.20	2.00	0.00	0.00	0.02	0.00
12.22	2.00	0.00	0.00	0.02	0.00	12.24	2.00	0.00	0.00	0.02	0.00
12.26	2.00	0.00	0.00	0.02	0.00	12.28	2.00	0.00	0.00	0.02	0.00
12.30	2.00	0.00	0.00	0.02	0.00	12.32	2.00	0.00	0.00	0.02	0.00
12.34	2.00	0.00	0.00	0.02	0.00	12.36	2.00	0.00	0.00	0.02	0.00
12.38	2.00	0.00	0.00	0.02	0.00	12.40	2.00	0.00	0.00	0.02	0.00
12.42	2.00	0.00	0.00	0.02	0.00	12.44	2.00	0.00	0.00	0.02	0.00
12.46	2.00	0.00	0.00	0.02	0.00	12.48	2.00	0.00	0.00	0.02	0.00
12.50	2.00	0.00	0.00	0.02	0.00	12.52	2.00	0.00	0.00	0.02	0.00
12.54	2.00	0.00	0.00	0.02	0.00	12.56	2.00	0.00	0.00	0.02	0.00
12.58	2.00	0.00	0.00	0.02	0.00	12.60	2.00	0.00	0.00	0.02	0.00
12.62	2.00	0.00	0.00	0.02	0.00	12.64	2.00	0.00	0.00	0.02	0.00
12.66	2.00	0.00	0.00	0.02	0.00	12.68	2.00	0.00	0.00	0.02	0.00
12.70	2.00	0.00	0.00	0.02	0.00	12.72	2.00	0.00	0.00	0.02	0.00
12.74	2.00	0.00	0.00	0.02	0.00	12.76	2.00	0.00	0.00	0.02	0.00
12.78	2.00	0.00	0.00	0.02	0.00	12.80	2.00	0.00	0.00	0.02	0.00
12.82	2.00	0.00	0.00	0.02	0.00	12.84	2.00	0.00	0.00	0.02	0.00
12.86	2.00	0.00	0.00	0.02	0.00	12.88	2.00	0.00	0.00	0.02	0.00
12.90	2.00	0.00	0.00	0.02	0.00	12.92	2.00	0.00	0.00	0.02	0.00
12.94	2.00	0.00	0.00	0.02	0.00	12.96	2.00	0.00	0.00	0.02	0.00
12.98	2.00	0.00	0.00	0.02	0.00	13.00	2.00	0.00	0.00	0.02	0.00
13.02	2.00	0.00	0.00	0.02	0.00	13.04	2.00	0.00	0.00	0.02	0.00
13.06	2.00	0.00	0.00	0.02	0.00	13.08	2.00	0.00	0.00	0.02	0.00
13.10	2.00	0.00	0.00	0.02	0.00	13.12	2.00	0.00	0.00	0.02	0.00
13.14	2.00	0.00	0.00	0.02	0.00	13.16	2.00	0.00	0.00	0.02	0.00
13.18	2.00	0.00	0.00	0.02	0.00	13.20	2.00	0.00	0.00	0.02	0.00
13.22	2.00	0.00	0.00	0.02	0.00	13.24	2.00	0.00	0.00	0.02	0.00
13.26	2.00	0.00	0.00	0.02	0.00	13.28	2.00	0.00	0.00	0.02	0.00
13.30	2.00	0.00	0.00	0.02	0.00	13.32	2.00	0.00	0.00	0.02	0.00
13.34	2.00	0.00	0.00	0.02	0.00	13.36	2.00	0.00	0.00	0.02	0.00
13.38	2.00	0.00	0.00	0.02	0.00	13.40	2.00	0.00	0.00	0.02	0.00
13.42	2.00	0.00	0.00	0.02	0.00	13.44	2.00	0.00	0.00	0.02	0.00
13.46	2.00	0.00	0.00	0.02	0.00	13.48	2.00	0.00	0.00	0.02	0.00
13.50	2.00	0.00	0.00	0.02	0.00	13.52	2.00	0.00	0.00	0.02	0.00
13.54	2.00	0.00	0.00	0.02	0.00	13.56	2.00	0.00	0.00	0.02	0.00
13.58	2.00	0.00	0.00	0.02	0.00	13.60	2.00	0.00	0.00	0.02	0.00
13.62	2.00	0.00	0.00	0.02	0.00	13.64	2.00	0.00	0.00	0.02	0.00
13.66	2.00	0.00	0.00	0.02	0.00	13.68	2.00	0.00	0.00	0.02	0.00
13.70	2.00	0.00	0.00	0.02	0.00	13.72	2.00	0.00	0.00	0.02	0.00
13.74	2.00	0.00	0.00	0.02	0.00	13.76	2.00	0.00	0.00	0.02	0.00
13.78	2.00	0.00	0.00	0.02	0.00	13.80	2.00	0.00	0.00	0.02	0.00
13.82	2.00	0.00	0.00	0.02	0.00	13.84	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
13.86	2.00	0.00	0.00	0.02	0.00	13.88	2.00	0.00	0.00	0.02	0.00
13.90	2.00	0.00	0.00	0.02	0.00	13.92	2.00	0.00	0.00	0.02	0.00
13.94	2.00	0.00	0.00	0.02	0.00	13.96	2.00	0.00	0.00	0.02	0.00
13.98	2.00	0.00	0.00	0.02	0.00	14.00	2.00	0.00	0.00	0.02	0.00
14.02	2.00	0.00	0.00	0.02	0.00	14.04	2.00	0.00	0.00	0.02	0.00
14.06	2.00	0.00	0.00	0.02	0.00	14.08	2.00	0.00	0.00	0.02	0.00
14.10	2.00	0.00	0.00	0.02	0.00	14.12	2.00	0.00	0.00	0.02	0.00
14.14	2.00	0.00	0.00	0.02	0.00	14.16	2.00	0.00	0.00	0.02	0.00
14.18	2.00	0.00	0.00	0.02	0.00	14.20	2.00	0.00	0.00	0.02	0.00
14.22	2.00	0.00	0.00	0.02	0.00	14.24	2.00	0.00	0.00	0.02	0.00
14.26	2.00	0.00	0.00	0.02	0.00	14.28	2.00	0.00	0.00	0.02	0.00
14.30	2.00	0.00	0.00	0.02	0.00	14.32	2.00	0.00	0.00	0.02	0.00
14.34	2.00	0.00	0.00	0.02	0.00	14.36	2.00	0.00	0.00	0.02	0.00
14.38	2.00	0.00	0.00	0.02	0.00	14.40	2.00	0.00	0.00	0.02	0.00
14.42	2.00	0.00	0.00	0.02	0.00	14.44	2.00	0.00	0.00	0.02	0.00
14.46	2.00	0.00	0.00	0.02	0.00	14.48	2.00	0.00	0.00	0.02	0.00
14.50	2.00	0.00	0.00	0.02	0.00	14.52	2.00	0.00	0.00	0.02	0.00
14.54	2.00	0.00	0.00	0.02	0.00	14.56	2.00	0.00	0.00	0.02	0.00
14.58	2.00	0.00	0.00	0.02	0.00	14.60	2.00	0.00	0.00	0.02	0.00
14.62	2.00	0.00	0.00	0.02	0.00	14.64	2.00	0.00	0.00	0.02	0.00
14.66	2.00	0.00	0.00	0.02	0.00	14.68	2.00	0.00	0.00	0.02	0.00
14.70	2.00	0.00	0.00	0.02	0.00	14.72	2.00	0.00	0.00	0.02	0.00
14.74	2.00	0.00	0.00	0.02	0.00	14.76	2.00	0.00	0.00	0.02	0.00
14.78	2.00	0.00	0.00	0.02	0.00	14.80	2.00	0.00	0.00	0.02	0.00
14.82	2.00	0.00	0.00	0.02	0.00	14.84	2.00	0.00	0.00	0.02	0.00
14.86	2.00	0.00	0.00	0.02	0.00	14.88	2.00	0.00	0.00	0.02	0.00
14.90	2.00	0.00	0.00	0.02	0.00	14.92	2.00	0.00	0.00	0.02	0.00
14.94	2.00	0.00	0.00	0.02	0.00	14.96	2.00	0.00	0.00	0.02	0.00
14.98	2.00	0.00	0.00	0.02	0.00	15.00	2.00	0.00	0.00	0.02	0.00
15.02	2.00	0.00	0.00	0.02	0.00	15.04	2.00	0.00	0.00	0.02	0.00
15.06	2.00	0.00	0.00	0.02	0.00	15.08	2.00	0.00	0.00	0.02	0.00
15.10	2.00	0.00	0.00	0.02	0.00	15.12	2.00	0.00	0.00	0.02	0.00
15.14	2.00	0.00	0.00	0.02	0.00	15.16	2.00	0.00	0.00	0.02	0.00
15.18	0.49	0.51	0.46	0.02	0.02	15.20	0.53	0.47	0.51	0.02	0.02
15.22	0.55	0.45	0.54	0.02	0.02	15.24	0.57	0.43	0.57	0.02	0.02
15.26	0.57	0.43	0.57	0.02	0.02	15.28	0.59	0.41	0.61	0.02	0.02
15.30	0.58	0.42	0.59	0.02	0.02	15.32	0.59	0.41	0.61	0.02	0.02
15.34	0.60	0.40	0.63	0.02	0.02	15.36	2.00	0.00	0.00	0.02	0.00
15.38	2.00	0.00	0.00	0.02	0.00	15.40	2.00	0.00	0.00	0.02	0.00
15.42	2.00	0.00	0.00	0.02	0.00	15.44	2.00	0.00	0.00	0.02	0.00
15.46	2.00	0.00	0.00	0.02	0.00	15.48	2.00	0.00	0.00	0.02	0.00
15.50	2.00	0.00	0.00	0.02	0.00	15.52	2.00	0.00	0.00	0.02	0.00
15.54	2.00	0.00	0.00	0.02	0.00	15.56	2.00	0.00	0.00	0.02	0.00
15.58	2.00	0.00	0.00	0.02	0.00	15.60	2.00	0.00	0.00	0.02	0.00
15.62	2.00	0.00	0.00	0.02	0.00	15.64	2.00	0.00	0.00	0.02	0.00
15.66	2.00	0.00	0.00	0.02	0.00	15.68	2.00	0.00	0.00	0.02	0.00
15.70	2.00	0.00	0.00	0.02	0.00	15.72	2.00	0.00	0.00	0.02	0.00
15.74	2.00	0.00	0.00	0.02	0.00	15.76	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
15.78	2.00	0.00	0.00	0.02	0.00	15.80	2.00	0.00	0.00	0.02	0.00
15.82	2.00	0.00	0.00	0.02	0.00	15.84	2.00	0.00	0.00	0.02	0.00
15.86	2.00	0.00	0.00	0.02	0.00	15.88	2.00	0.00	0.00	0.02	0.00
15.90	2.00	0.00	0.00	0.02	0.00	15.92	2.00	0.00	0.00	0.02	0.00
15.94	2.00	0.00	0.00	0.02	0.00	15.96	2.00	0.00	0.00	0.02	0.00
15.98	2.00	0.00	0.00	0.02	0.00	16.00	2.00	0.00	0.00	0.02	0.00
16.02	2.00	0.00	0.00	0.02	0.00	16.04	2.00	0.00	0.00	0.02	0.00
16.06	2.00	0.00	0.00	0.02	0.00	16.08	2.00	0.00	0.00	0.02	0.00
16.10	2.00	0.00	0.00	0.02	0.00	16.12	2.00	0.00	0.00	0.02	0.00
16.14	2.00	0.00	0.00	0.02	0.00	16.16	2.00	0.00	0.00	0.02	0.00
16.18	2.00	0.00	0.00	0.02	0.00	16.20	2.00	0.00	0.00	0.02	0.00
16.22	2.00	0.00	0.00	0.02	0.00	16.24	2.00	0.00	0.00	0.02	0.00
16.26	2.00	0.00	0.00	0.02	0.00	16.28	2.00	0.00	0.00	0.02	0.00
16.30	2.00	0.00	0.00	0.02	0.00	16.32	2.00	0.00	0.00	0.02	0.00
16.34	2.00	0.00	0.00	0.02	0.00	16.36	2.00	0.00	0.00	0.02	0.00
16.38	2.00	0.00	0.00	0.02	0.00	16.40	2.00	0.00	0.00	0.02	0.00
16.42	2.00	0.00	0.00	0.02	0.00	16.44	2.00	0.00	0.00	0.02	0.00
16.46	2.00	0.00	0.00	0.02	0.00	16.48	2.00	0.00	0.00	0.02	0.00
16.50	2.00	0.00	0.00	0.02	0.00	16.52	2.00	0.00	0.00	0.02	0.00
16.54	2.00	0.00	0.00	0.02	0.00	16.56	2.00	0.00	0.00	0.02	0.00
16.58	2.00	0.00	0.00	0.02	0.00	16.60	2.00	0.00	0.00	0.02	0.00
16.62	2.00	0.00	0.00	0.02	0.00	16.64	2.00	0.00	0.00	0.02	0.00
16.66	2.00	0.00	0.00	0.02	0.00	16.68	2.00	0.00	0.00	0.02	0.00
16.70	2.00	0.00	0.00	0.02	0.00	16.72	2.00	0.00	0.00	0.02	0.00
16.74	2.00	0.00	0.00	0.02	0.00	16.76	2.00	0.00	0.00	0.02	0.00
16.78	2.00	0.00	0.00	0.02	0.00	16.80	2.00	0.00	0.00	0.02	0.00
16.82	2.00	0.00	0.00	0.02	0.00	16.84	2.00	0.00	0.00	0.02	0.00
16.86	2.00	0.00	0.00	0.02	0.00	16.88	2.00	0.00	0.00	0.02	0.00
16.90	2.00	0.00	0.00	0.02	0.00	16.92	2.00	0.00	0.00	0.02	0.00
16.94	2.00	0.00	0.00	0.02	0.00	16.96	2.00	0.00	0.00	0.02	0.00
16.98	2.00	0.00	0.00	0.02	0.00	17.00	2.00	0.00	0.00	0.02	0.00
17.02	2.00	0.00	0.00	0.02	0.00	17.04	2.00	0.00	0.00	0.02	0.00
17.06	2.00	0.00	0.00	0.02	0.00	17.08	2.00	0.00	0.00	0.02	0.00
17.10	2.00	0.00	0.00	0.02	0.00	17.12	2.00	0.00	0.00	0.02	0.00
17.14	2.00	0.00	0.00	0.02	0.00	17.16	2.00	0.00	0.00	0.02	0.00
17.18	2.00	0.00	0.00	0.02	0.00	17.20	2.00	0.00	0.00	0.02	0.00
17.22	2.00	0.00	0.00	0.02	0.00	17.24	2.00	0.00	0.00	0.02	0.00
17.26	2.00	0.00	0.00	0.02	0.00	17.28	2.00	0.00	0.00	0.02	0.00
17.30	2.00	0.00	0.00	0.02	0.00	17.32	2.00	0.00	0.00	0.02	0.00
17.34	2.00	0.00	0.00	0.02	0.00	17.36	2.00	0.00	0.00	0.02	0.00
17.38	2.00	0.00	0.00	0.02	0.00	17.40	2.00	0.00	0.00	0.02	0.00
17.42	2.00	0.00	0.00	0.02	0.00	17.44	2.00	0.00	0.00	0.02	0.00
17.46	2.00	0.00	0.00	0.02	0.00	17.48	2.00	0.00	0.00	0.02	0.00
17.50	2.00	0.00	0.00	0.02	0.00	17.52	2.00	0.00	0.00	0.02	0.00
17.54	2.00	0.00	0.00	0.02	0.00	17.56	2.00	0.00	0.00	0.02	0.00
17.58	2.00	0.00	0.00	0.02	0.00	17.60	2.00	0.00	0.00	0.02	0.00
17.62	2.00	0.00	0.00	0.02	0.00	17.64	2.00	0.00	0.00	0.02	0.00
17.66	2.00	0.00	0.00	0.02	0.00	17.68	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
17.70	2.00	0.00	0.00	0.02	0.00	17.72	2.00	0.00	0.00	0.02	0.00
17.74	2.00	0.00	0.00	0.02	0.00	17.76	2.00	0.00	0.00	0.02	0.00
17.78	2.00	0.00	0.00	0.02	0.00	17.80	2.00	0.00	0.00	0.02	0.00
17.82	2.00	0.00	0.00	0.02	0.00	17.84	2.00	0.00	0.00	0.02	0.00
17.86	2.00	0.00	0.00	0.02	0.00	17.88	2.00	0.00	0.00	0.02	0.00
17.90	2.00	0.00	0.00	0.02	0.00	17.92	2.00	0.00	0.00	0.02	0.00
17.94	2.00	0.00	0.00	0.02	0.00	17.96	2.00	0.00	0.00	0.02	0.00
17.98	2.00	0.00	0.00	0.02	0.00	18.00	2.00	0.00	0.00	0.02	0.00
18.02	2.00	0.00	0.00	0.02	0.00	18.04	2.00	0.00	0.00	0.02	0.00
18.06	2.00	0.00	0.00	0.02	0.00	18.08	2.00	0.00	0.00	0.02	0.00
18.10	2.00	0.00	0.00	0.02	0.00	18.12	2.00	0.00	0.00	0.02	0.00
18.14	2.00	0.00	0.00	0.02	0.00	18.16	2.00	0.00	0.00	0.02	0.00
18.18	2.00	0.00	0.00	0.02	0.00	18.20	2.00	0.00	0.00	0.02	0.00
18.22	2.00	0.00	0.00	0.02	0.00	18.24	2.00	0.00	0.00	0.02	0.00
18.26	2.00	0.00	0.00	0.02	0.00	18.28	2.00	0.00	0.00	0.02	0.00
18.30	2.00	0.00	0.00	0.02	0.00	18.32	2.00	0.00	0.00	0.02	0.00
18.34	2.00	0.00	0.00	0.02	0.00	18.36	2.00	0.00	0.00	0.02	0.00
18.38	2.00	0.00	0.00	0.02	0.00	18.40	2.00	0.00	0.00	0.02	0.00
18.42	2.00	0.00	0.00	0.02	0.00	18.44	2.00	0.00	0.00	0.02	0.00
18.46	2.00	0.00	0.00	0.02	0.00	18.48	2.00	0.00	0.00	0.02	0.00
18.50	2.00	0.00	0.00	0.02	0.00	18.52	2.00	0.00	0.00	0.02	0.00
18.54	2.00	0.00	0.00	0.02	0.00	18.56	2.00	0.00	0.00	0.02	0.00
18.58	2.00	0.00	0.00	0.02	0.00	18.60	2.00	0.00	0.00	0.02	0.00
18.62	2.00	0.00	0.00	0.02	0.00	18.64	2.00	0.00	0.00	0.02	0.00
18.66	2.00	0.00	0.00	0.02	0.00	18.68	2.00	0.00	0.00	0.02	0.00
18.70	2.00	0.00	0.00	0.02	0.00	18.72	2.00	0.00	0.00	0.02	0.00
18.74	2.00	0.00	0.00	0.02	0.00	18.76	2.00	0.00	0.00	0.02	0.00
18.78	2.00	0.00	0.00	0.02	0.00	18.80	2.00	0.00	0.00	0.02	0.00
18.82	2.00	0.00	0.00	0.02	0.00	18.84	2.00	0.00	0.00	0.02	0.00
18.86	2.00	0.00	0.00	0.02	0.00	18.88	2.00	0.00	0.00	0.02	0.00
18.90	2.00	0.00	0.00	0.02	0.00	18.92	2.00	0.00	0.00	0.02	0.00
18.94	2.00	0.00	0.00	0.02	0.00	18.96	2.00	0.00	0.00	0.02	0.00
18.98	2.00	0.00	0.00	0.02	0.00	19.00	2.00	0.00	0.00	0.02	0.00
19.02	2.00	0.00	0.00	0.02	0.00	19.04	2.00	0.00	0.00	0.02	0.00
19.06	2.00	0.00	0.00	0.02	0.00	19.08	2.00	0.00	0.00	0.02	0.00
19.10	2.00	0.00	0.00	0.02	0.00	19.12	2.00	0.00	0.00	0.02	0.00
19.14	2.00	0.00	0.00	0.02	0.00	19.16	2.00	0.00	0.00	0.02	0.00
19.18	2.00	0.00	0.00	0.02	0.00	19.20	2.00	0.00	0.00	0.02	0.00
19.22	2.00	0.00	0.00	0.02	0.00	19.24	2.00	0.00	0.00	0.02	0.00
19.26	2.00	0.00	0.00	0.02	0.00	19.28	2.00	0.00	0.00	0.02	0.00
19.30	2.00	0.00	0.00	0.02	0.00	19.32	2.00	0.00	0.00	0.02	0.00
19.34	2.00	0.00	0.00	0.02	0.00	19.36	2.00	0.00	0.00	0.02	0.00
19.38	2.00	0.00	0.00	0.02	0.00	19.40	2.00	0.00	0.00	0.02	0.00
19.42	2.00	0.00	0.00	0.02	0.00	19.44	2.00	0.00	0.00	0.02	0.00
19.46	2.00	0.00	0.00	0.02	0.00	19.48	2.00	0.00	0.00	0.02	0.00
19.50	2.00	0.00	0.00	0.02	0.00	19.52	2.00	0.00	0.00	0.02	0.00
19.54	2.00	0.00	0.00	0.02	0.00	19.56	2.00	0.00	0.00	0.02	0.00
19.58	2.00	0.00	0.00	0.02	0.00	19.60	2.00	0.00	0.00	0.02	0.00

:: Liquefaction Potential Index calculation data ::

Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}	Depth (m)	FS	m(FS)	H_1*m(FS)	d_z	LPI_{ISH}
19.62	2.00	0.00	0.00	0.02	0.00	19.64	2.00	0.00	0.00	0.02	0.00
19.66	2.00	0.00	0.00	0.02	0.00	19.68	2.00	0.00	0.00	0.02	0.00
19.70	2.00	0.00	0.00	0.02	0.00	19.72	2.00	0.00	0.00	0.02	0.00
19.74	2.00	0.00	0.00	0.02	0.00	19.76	2.00	0.00	0.00	0.02	0.00
19.78	2.00	0.00	0.00	0.02	0.00	19.80	2.00	0.00	0.00	0.02	0.00
19.82	2.00	0.00	0.00	0.02	0.00	19.84	2.00	0.00	0.00	0.02	0.00
19.86	2.00	0.00	0.00	0.02	0.00	19.88	2.00	0.00	0.00	0.02	0.00
19.90	2.00	0.00	0.00	0.02	0.00	19.92	2.00	0.00	0.00	0.02	0.00
19.94	2.00	0.00	0.00	0.02	0.00	19.96	2.00	0.00	0.00	0.02	0.00
19.98	2.00	0.00	0.00	0.02	0.00	20.00	2.00	0.00	0.00	0.02	0.00

Overall liquefaction potential: 4.16

LPI_{ISH} > 5.0 - Liquefaction manifestation is expected

Abbreviations

FS: Calculated factor of safety for test point
d_z: Layer thickness (m)
LPI: Liquefaction potential index value for test point