## Appendix J: Liquefaction Vulnerability Parameter Sensitivity Analyses

Table J1.1 – Classifications used for CPT and borehole log review CPT Examples J1 – J11 This appendix presents examples of each of the classifications used for the review of CPT and boreholes during the Stage 2 ILV qualification process. The different classifications are presented in Table J1.1 followed by the examples.

Symbol	Description	Example		
~	Post-CES median LSN at M6 0.3g greater than or equal to 16 and $\triangle LSN$ greater than or equal to 5			
×	Post-CES median and mean LSN at M6 0.3g less than or equal to 14; or Post-CES median and mean LSN at M6 0.3g between 14 and 16 and $\Delta$ LSN less than 5.			
Mean√	Post-CES mean LSN at M6 0.3g greater than or equal to 16 and mean $\Delta LSN$ greater than or equal to 5			
NC	Post-CES median and mean LSN at M6 0.3g greater than or equal to 16 and $\triangle$ LSN less than 4.			
М	Post-CES LSN at M6 0.3g greater than or equal to 16 and △LSN between 4 and 5; or Post-CES median and mean LSN at M6 0.3g between 14 and 16 and △LSN greater than or equal to 5	J5.1 J5.2		
חפ	Predrill on CPT affects I SN result	16		
?	CPT data quality is questionable	J7		
SC	Stress Change – $\triangle$ LSN at M6 0.3g is less than 5; but $\triangle$ LSN is greater than or equal to 5 for any M6 PGA less than 0.3g where the corresponding post-CES LSN is greater than 16	8L		
S	CPT depth is less than 5m	19		
√h	LSN > 16 and $\Delta$ LSN > 5 at M6 0.3g but LSN is hypersensitive to very small changes in depth of groundwater (typically where groundwater is shallower than 0.5m)	J10		
GW issue	Significant difference between the mean and median groundwater levels noted			

Table J1.1:	Classifications	used for CPT	and borehole	review
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