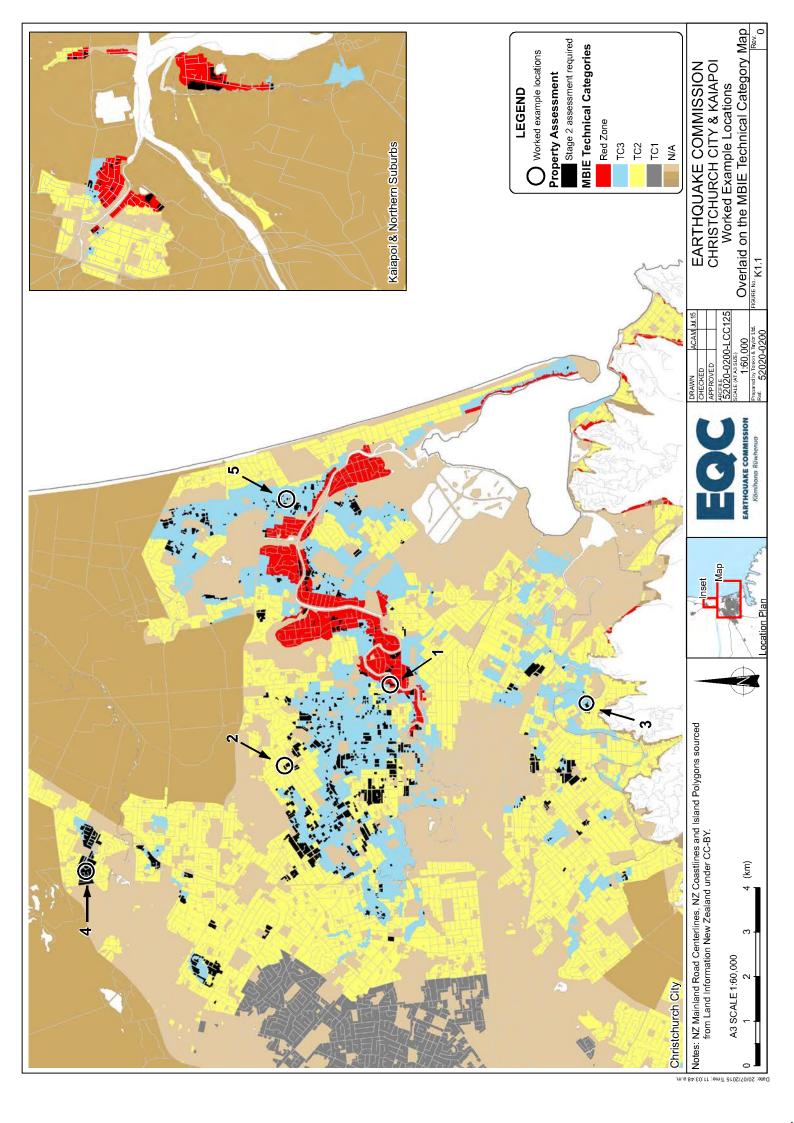
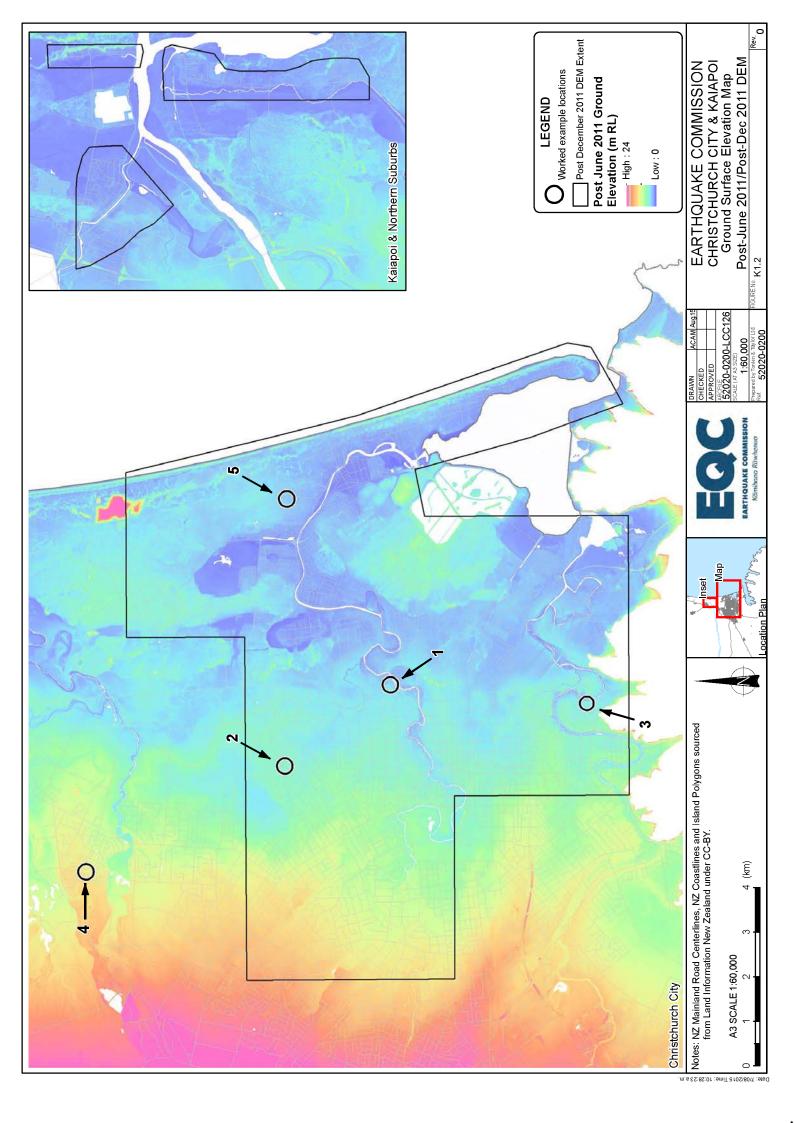
**Appendix K:** Maps used for the Regional

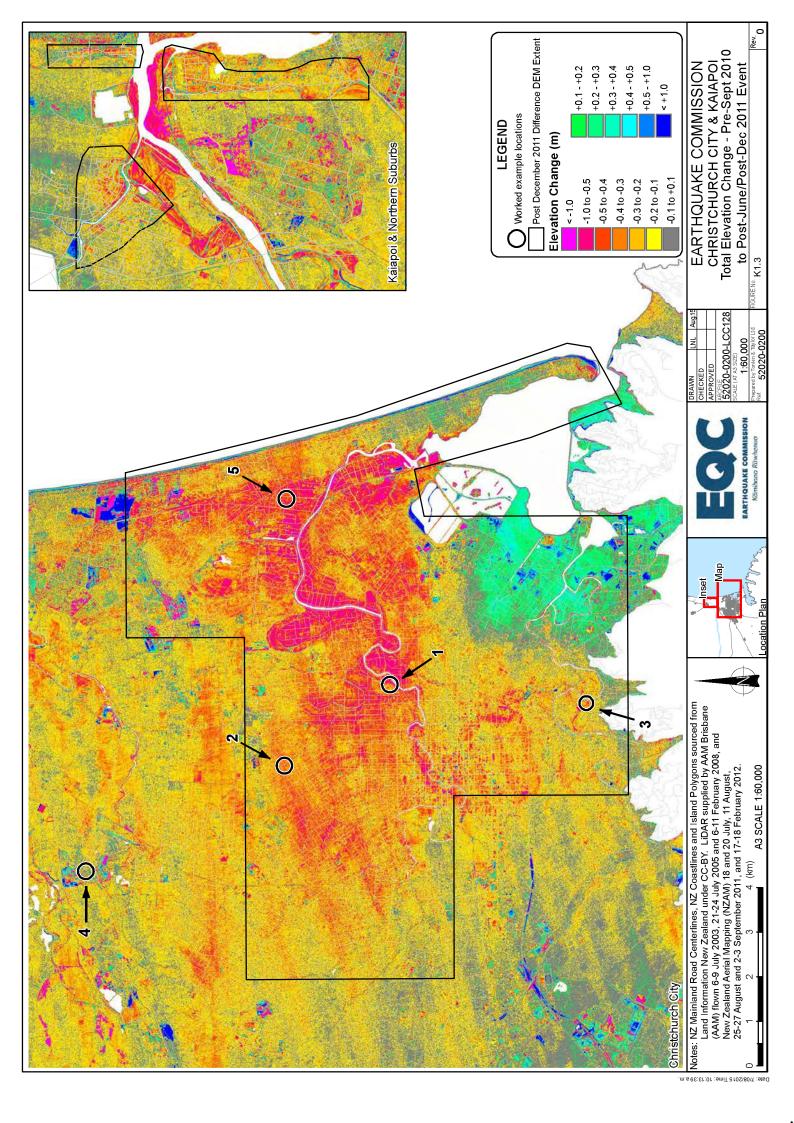
**Assessment of ILV** 

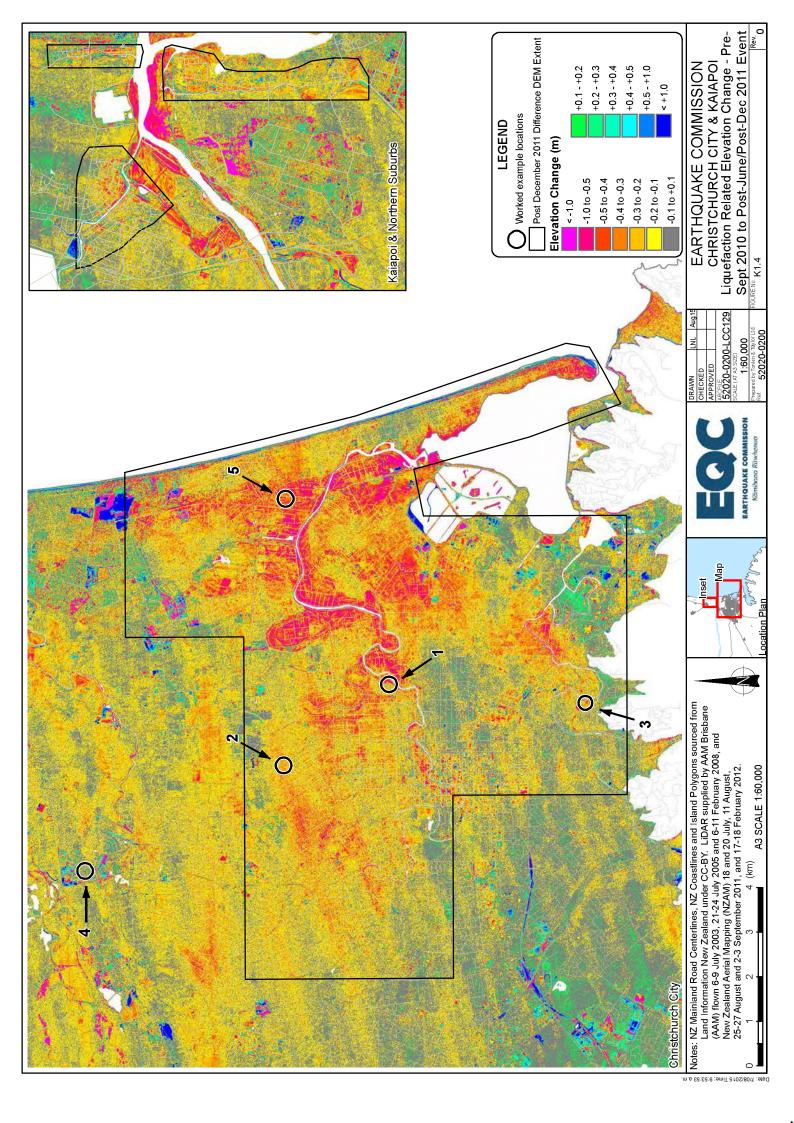
## Appendix K1 - Maps used for Regional Assessment of ILV

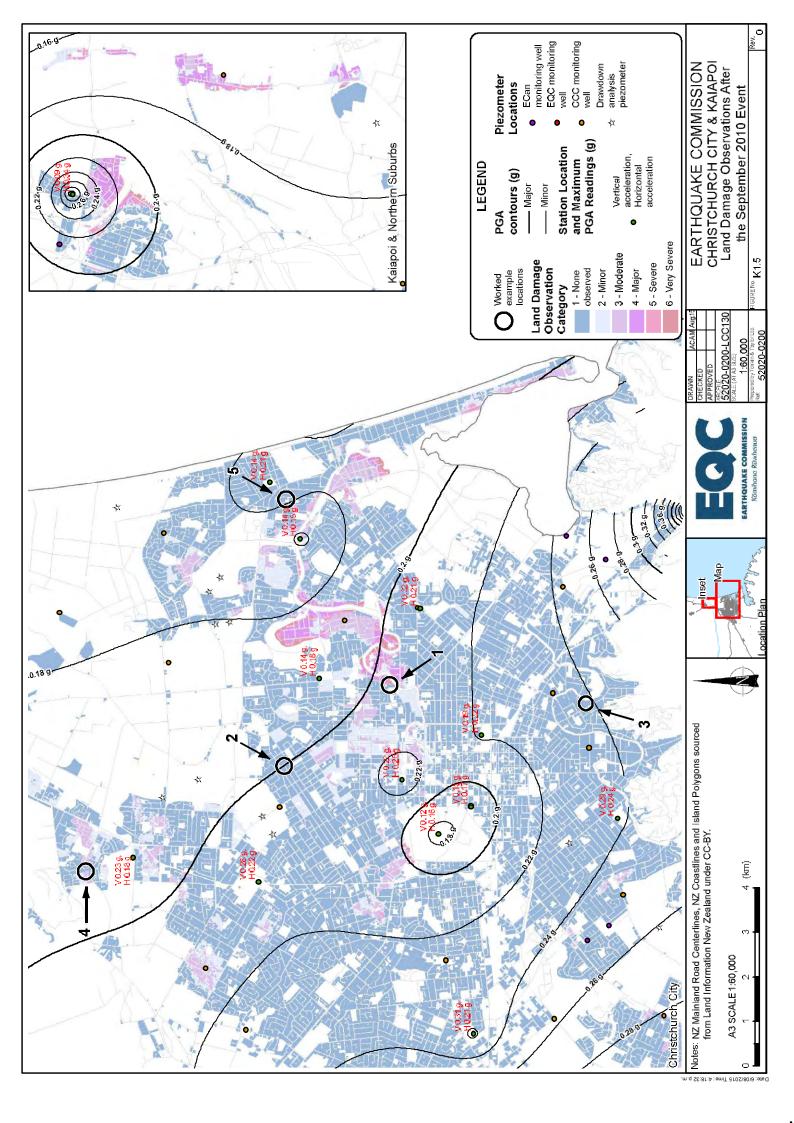
- Figure K1.1 MBIE Technical Category Map
- Figure K1.2 Ground Surface Elevation Map Post-June 2011/Post-Dec 2011 DEM
- Figure K1.3 Total Elevation Change Pre-Sept 2010 to Post-June/Post-Dec 2011
- Figure K1.4 Liquefaction Related Elevation Change Pre-Sept 2010 to Post-June/Post-Dec 2011
- Figure K1.5 to K1.8 Land Damage Observations After the September 2010,
  February 2011, June 2011 and December 2011 Events
- Figure K1.9 to K 1.11 Depth to Ground Water Contour: 15<sup>th</sup>, 50<sup>th</sup> and 85<sup>th</sup> Percentile Surface
- Figure K1.12 Depth to Ground Water Contour: Difference Between the 15<sup>th</sup> and 85<sup>th</sup> Percentile
- Figures K1.13 to K1.17 Median Normalised CPT Tip Resistance (q<sub>C1N</sub>) at 1m intervals: Depth 0m to 5m
- Figures K1.18 to K1.22 Median Soil Behaviour Type Index (I<sub>c</sub>) at 1m intervals: Depth 0m to 5m
- Figure K1.23 Depth to First Hard Layer Greater than 0.5m Thick
- Figures K1.24 to K1.26 Sensitivity of LSN to PGA: PGA=0.28 to 0.32g; M<sub>w</sub> = 6.0
- Figures K1.27 to K1.29 Sensitivity of LSN to  $P_L$ :  $P_L = 15^{th}$ ,  $50^{th}$  and  $85^{th}$  percentile
- Figure K1.30 to K1.31 Liquefaction Susceptibility Criteria Banded by the Soil Behaviour Type Index: Depth 0m to 5m and Depth 5m to 10m
- Figure K1.32 to K1.33 Comparison of Fines Content Banded by the Soil Behaviour
  Type Index: Depth from 0m to 5m and 5m to 10m
- Figures K1.34 to K1.39 Sensitivity of LSN to C<sub>FC</sub> and I<sub>C</sub> Cutoff: C<sub>FC</sub> = 0 and 0.2; I<sub>C</sub> Cutoff = 2.4, 2.6 and 2.8

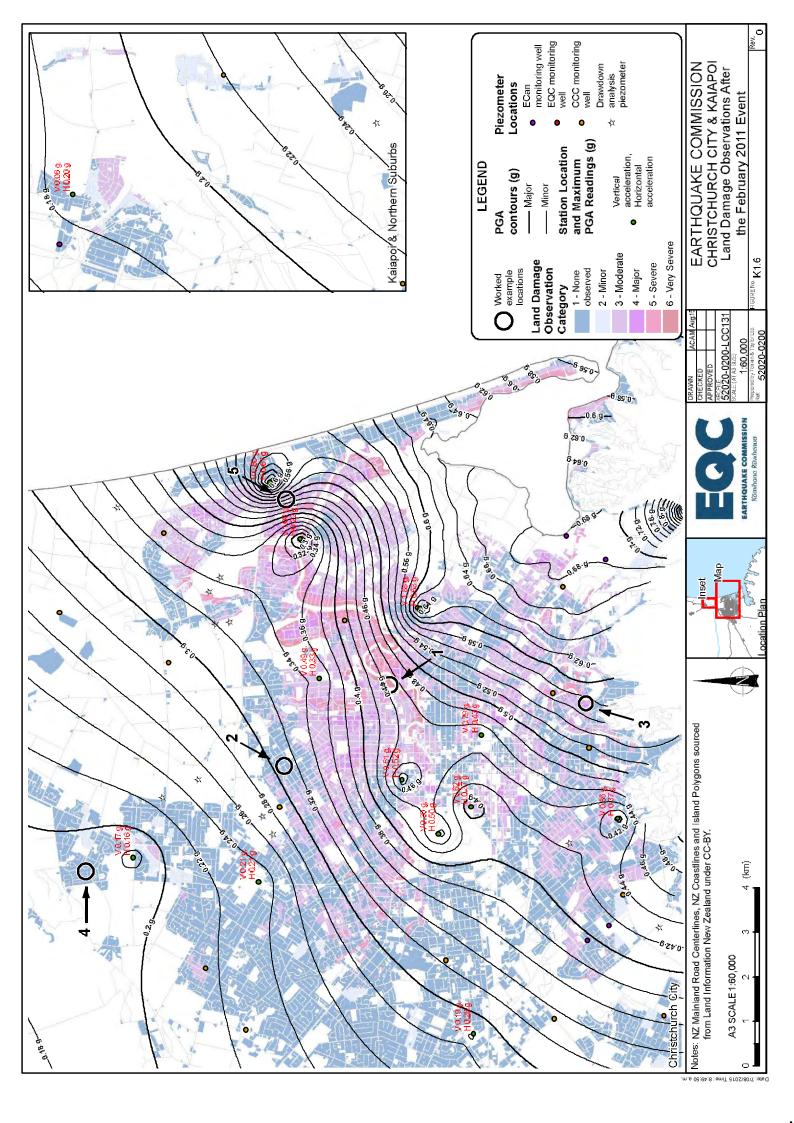


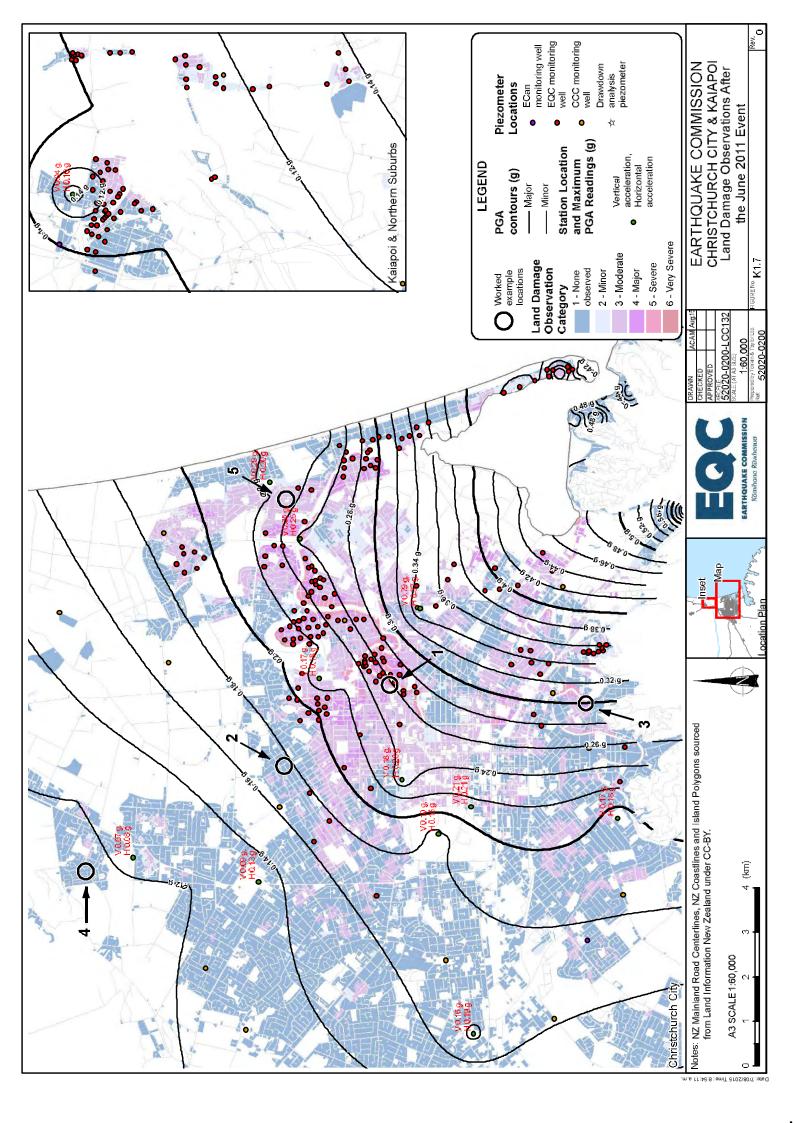


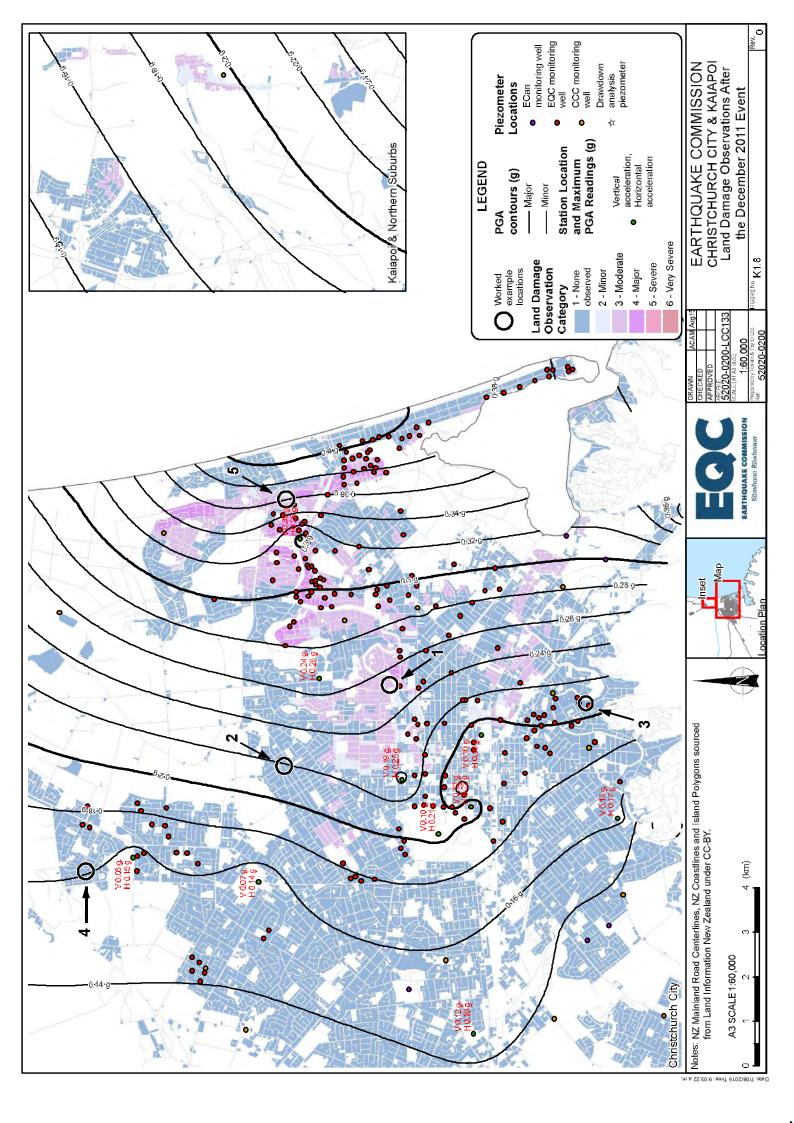


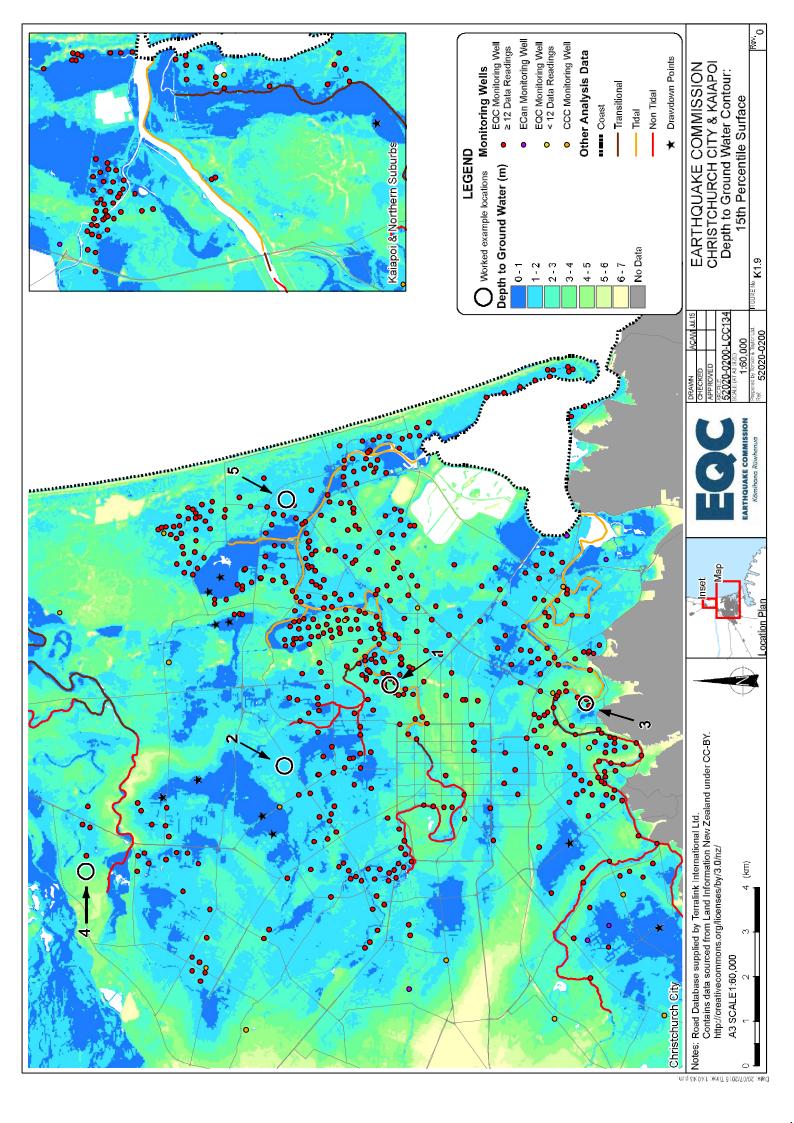


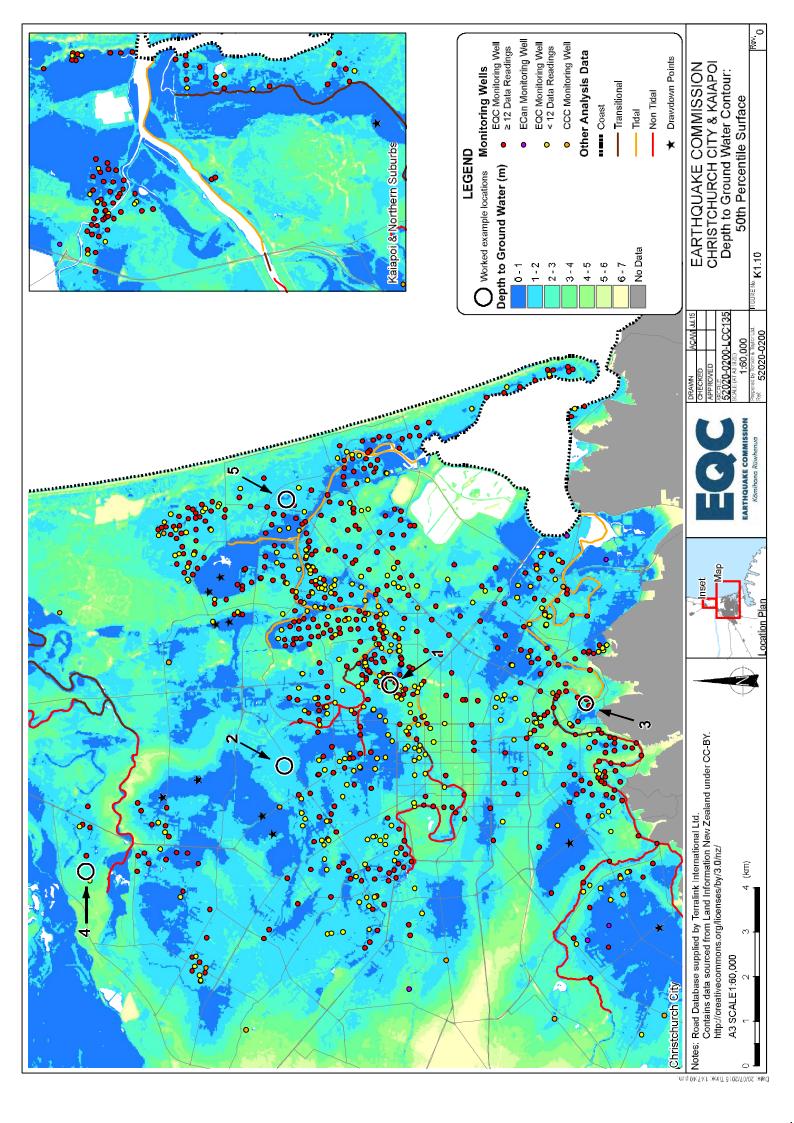


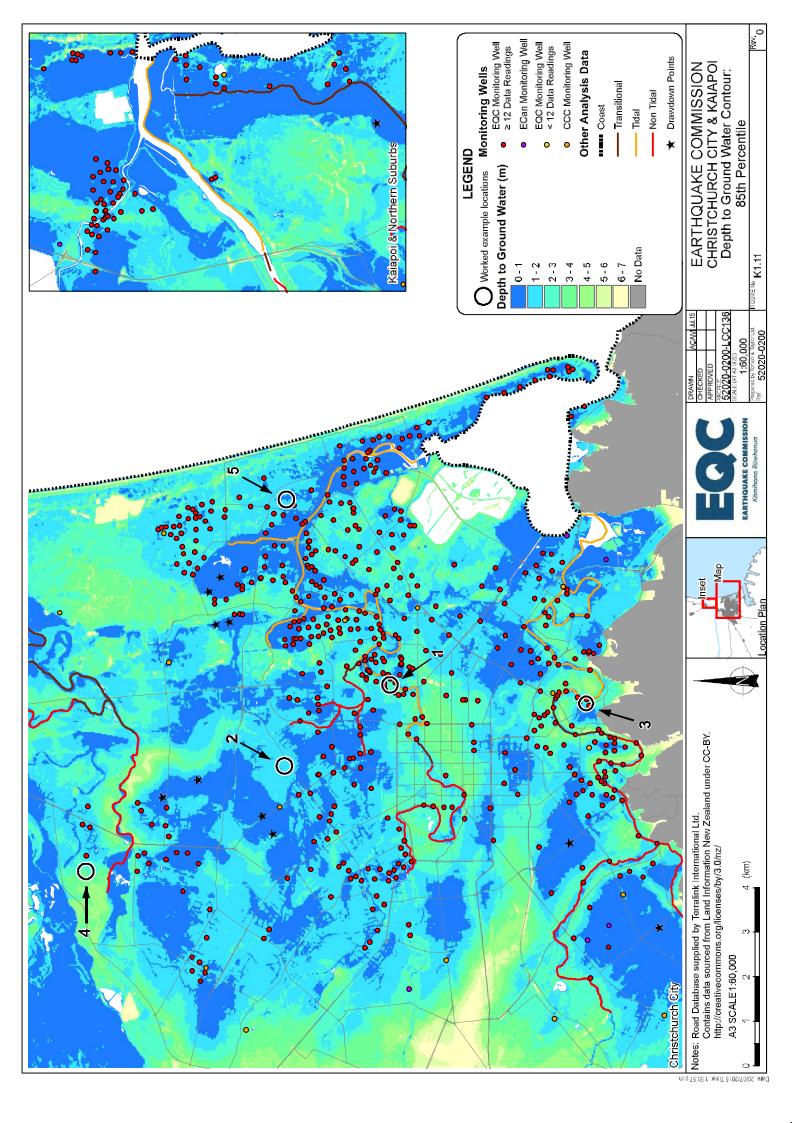


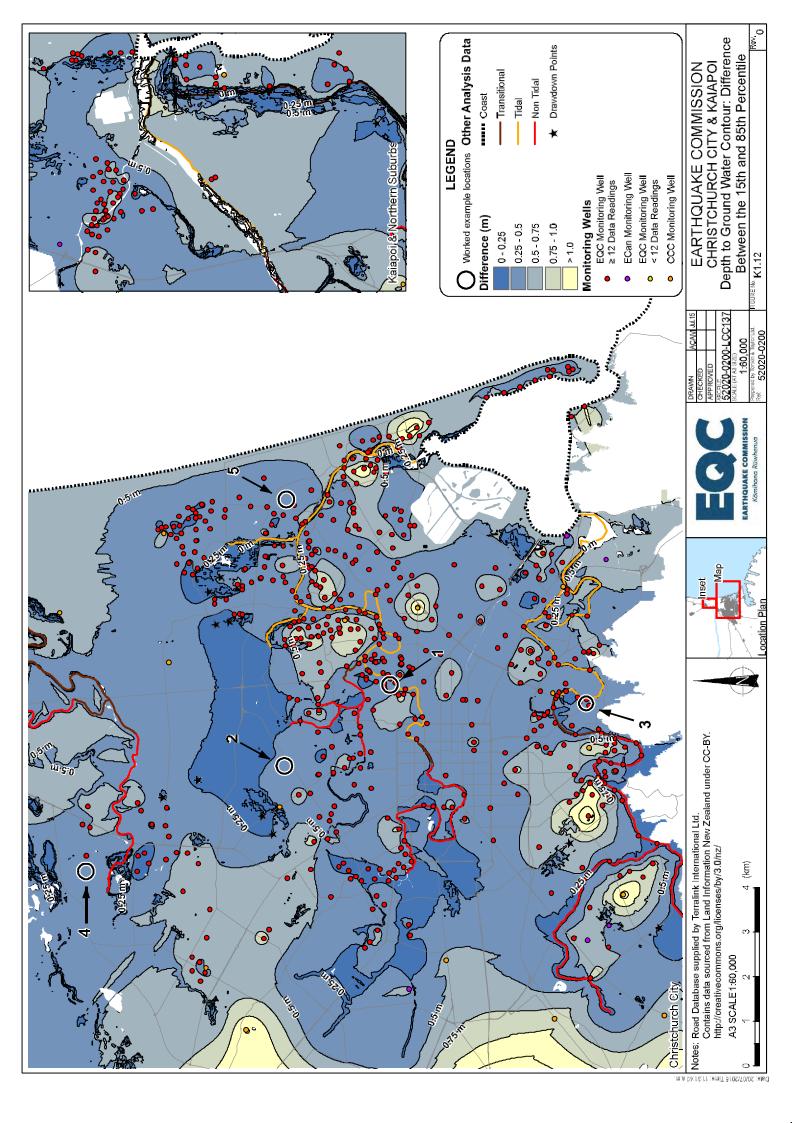


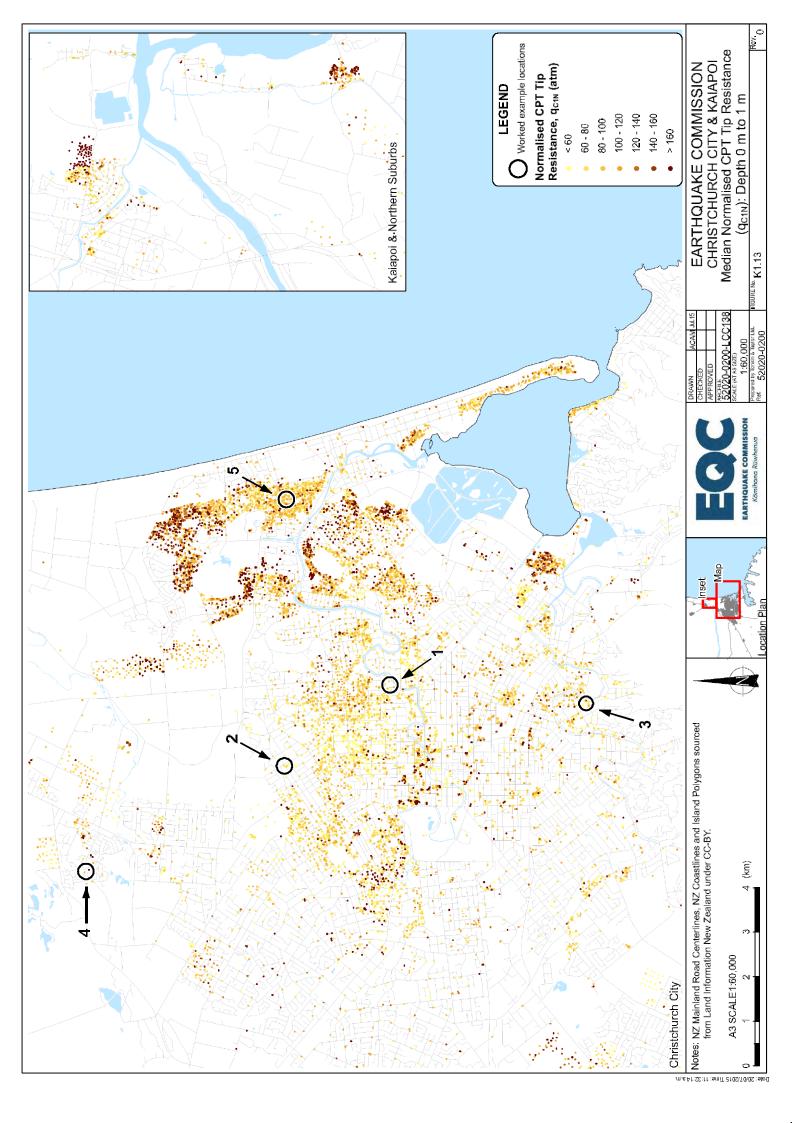


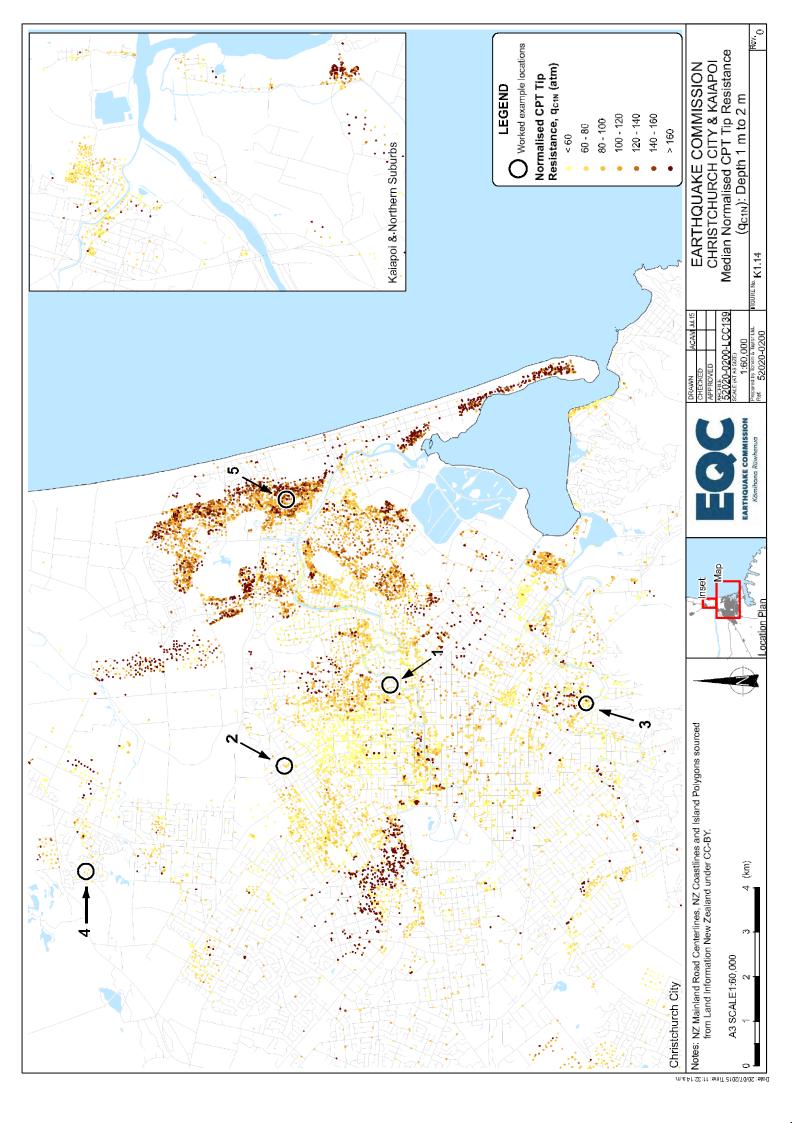


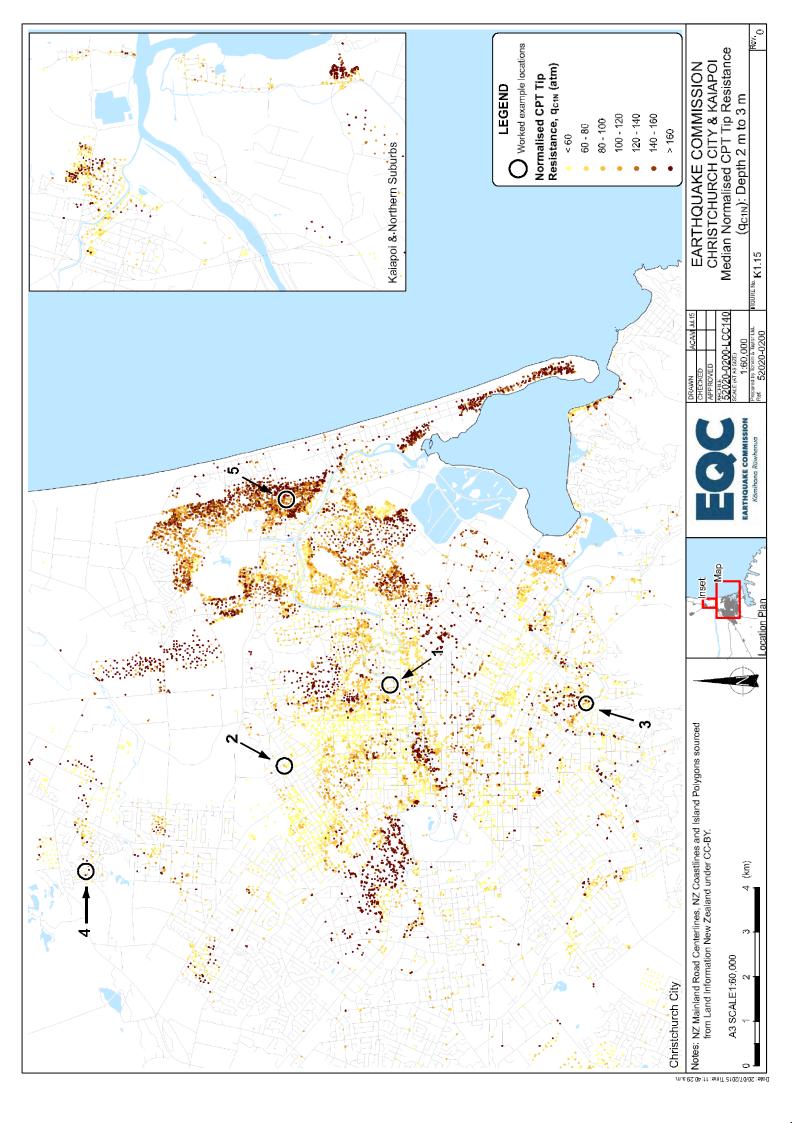


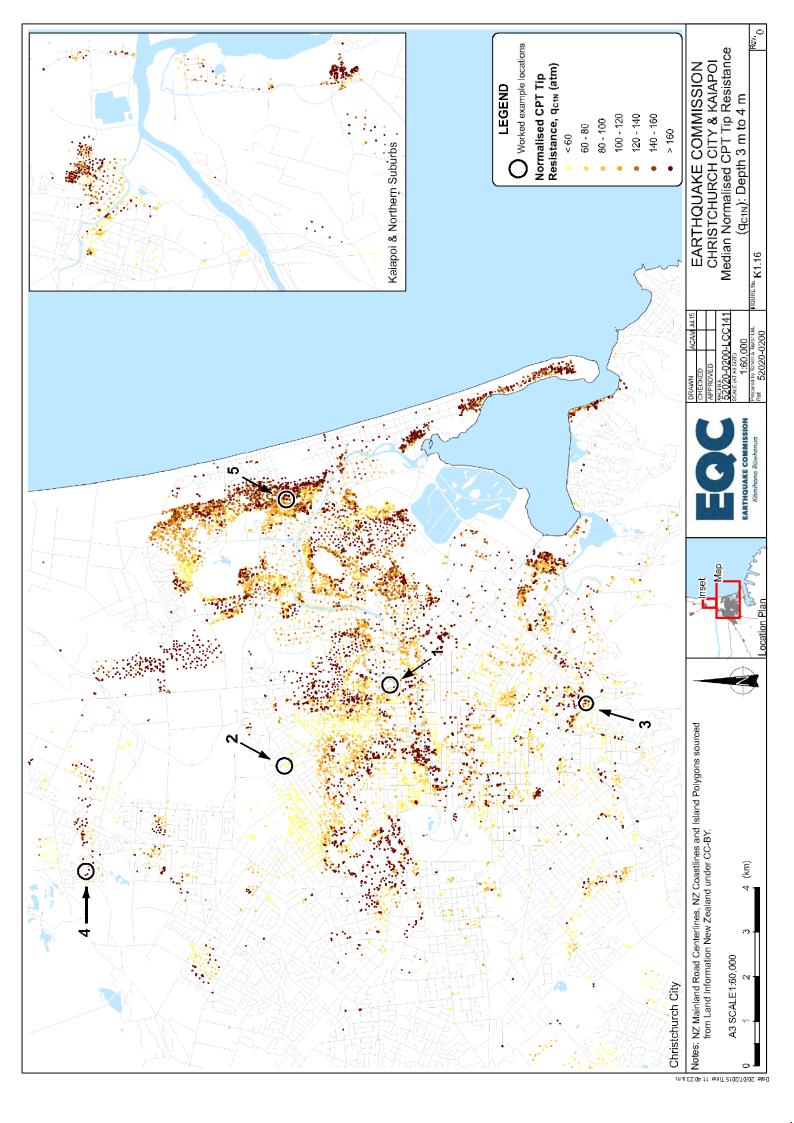


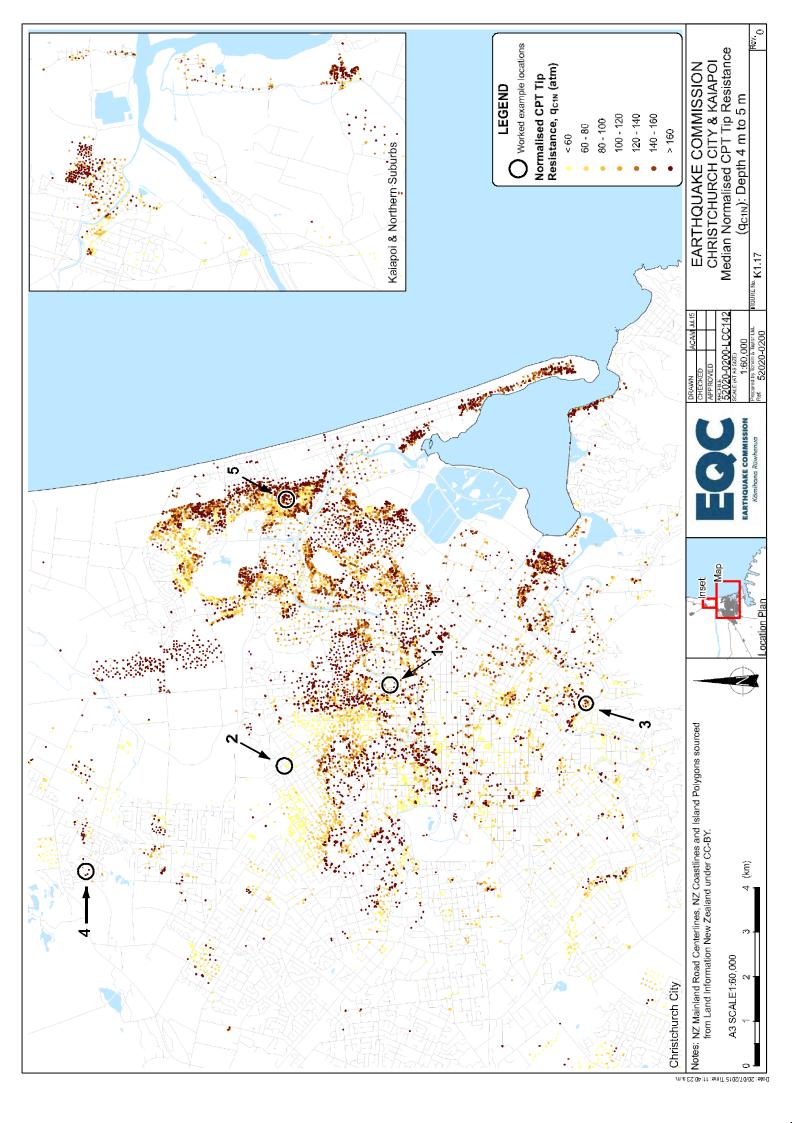


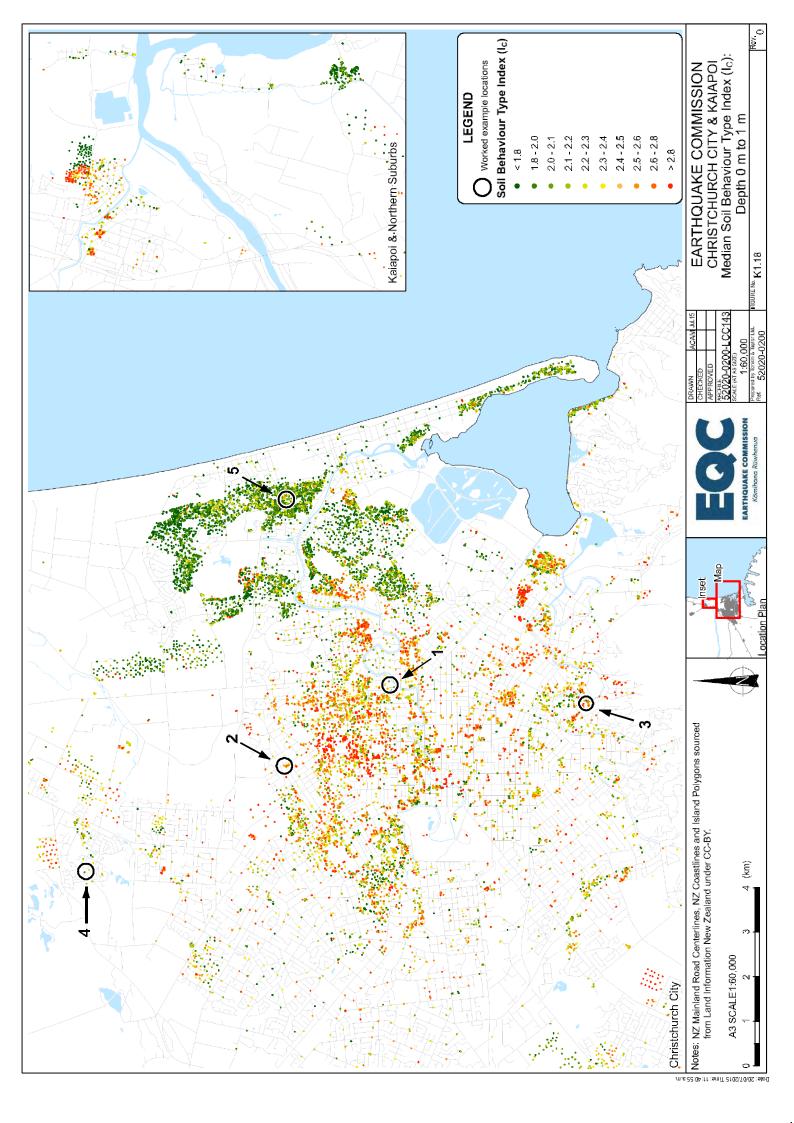


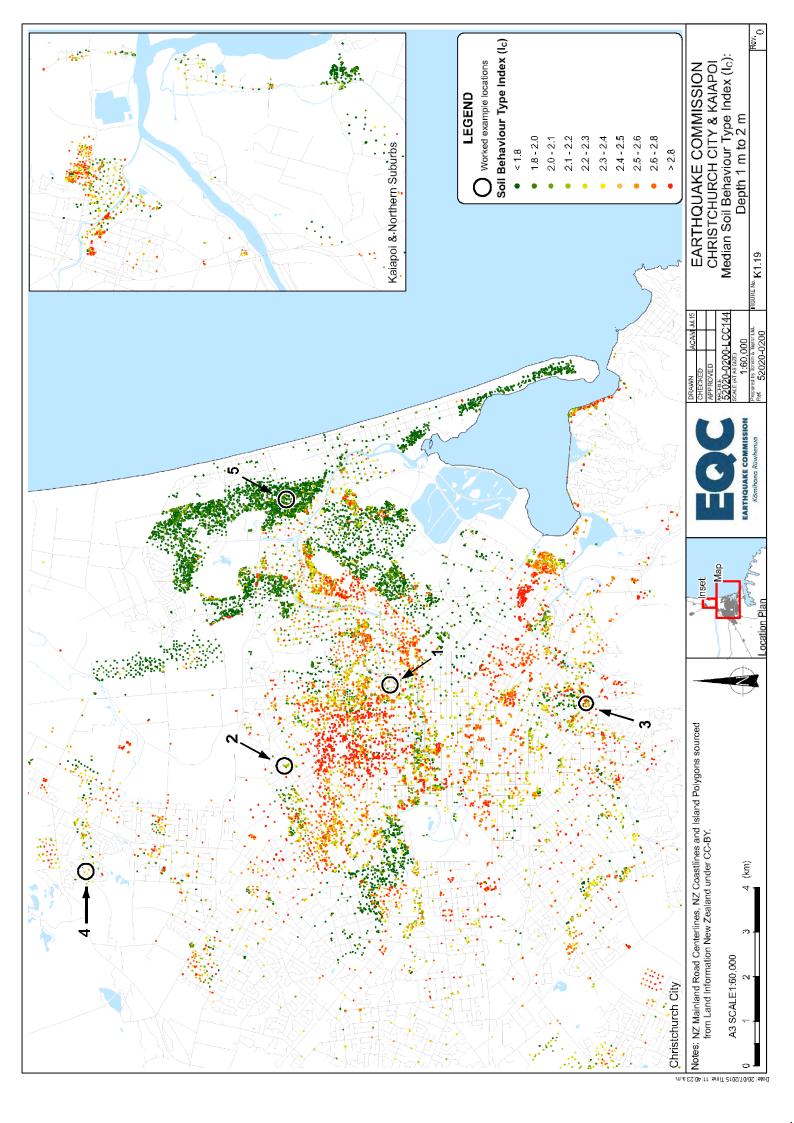


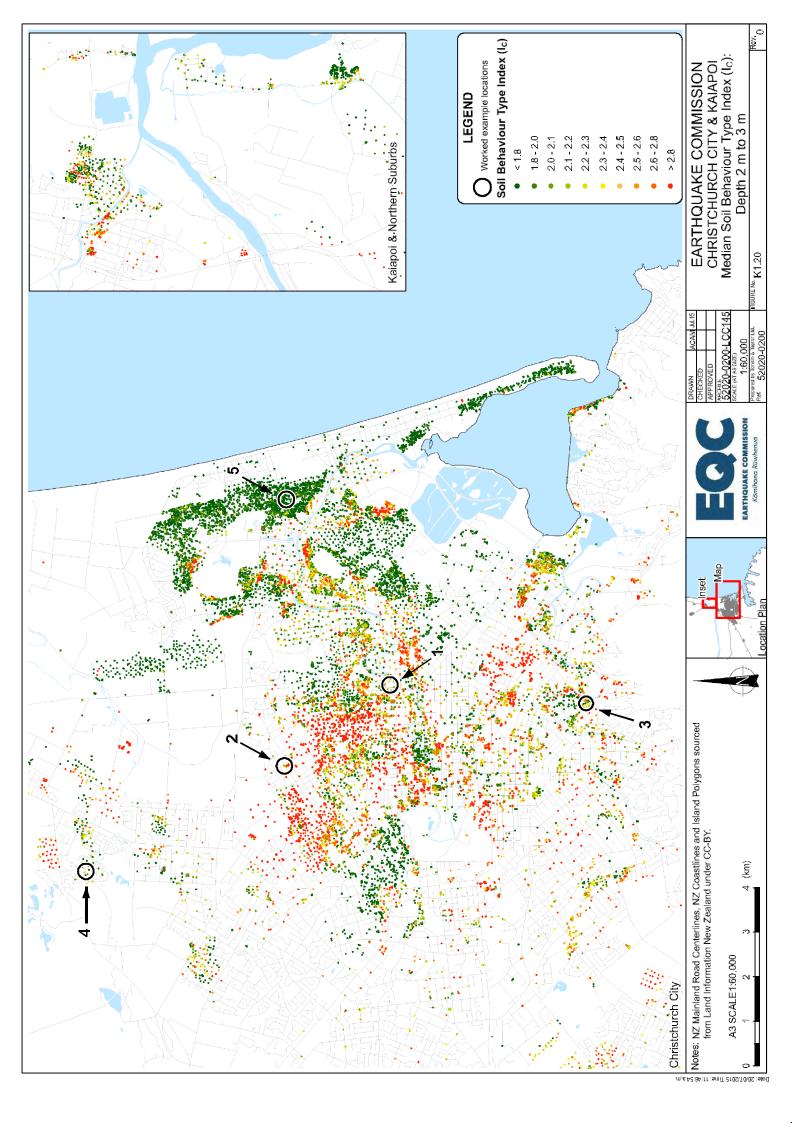


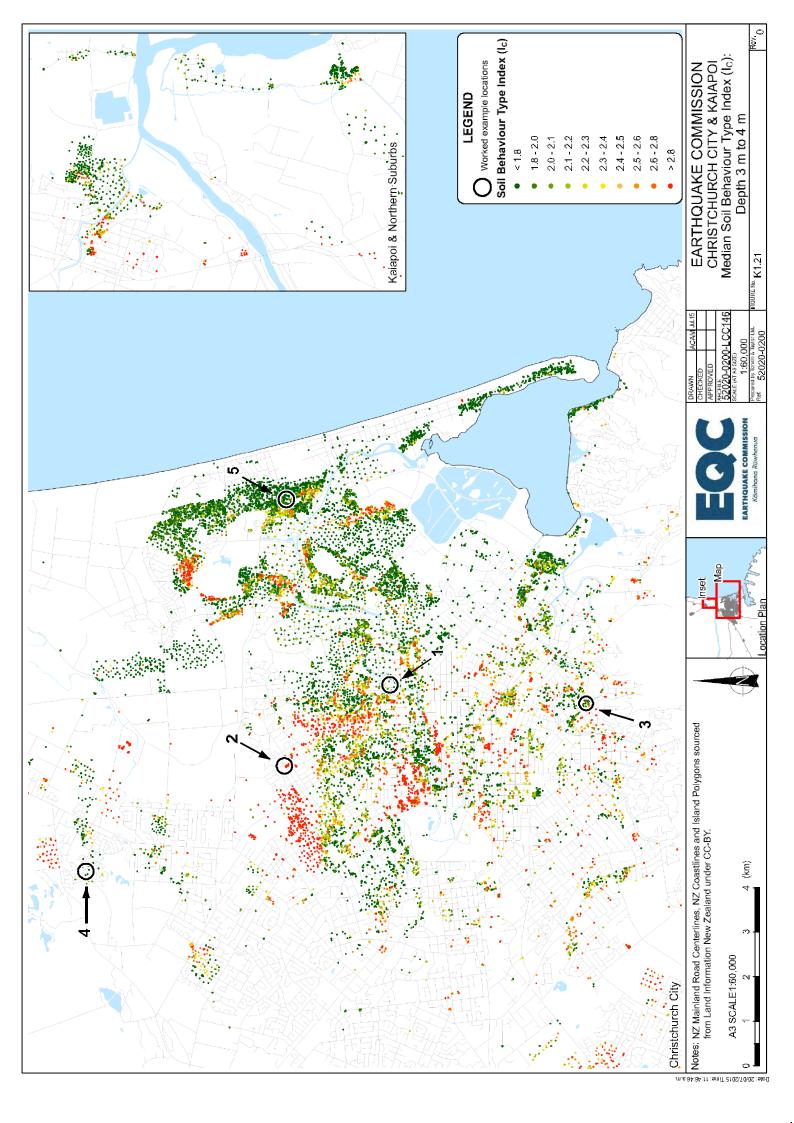


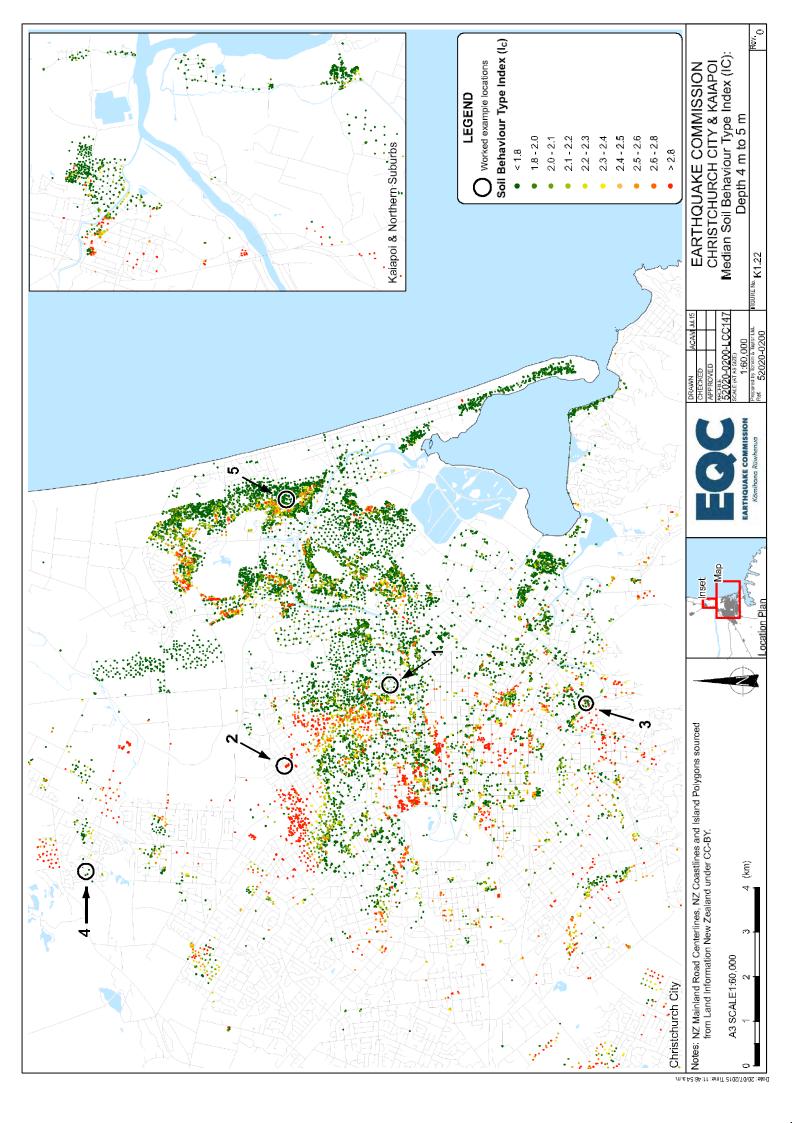


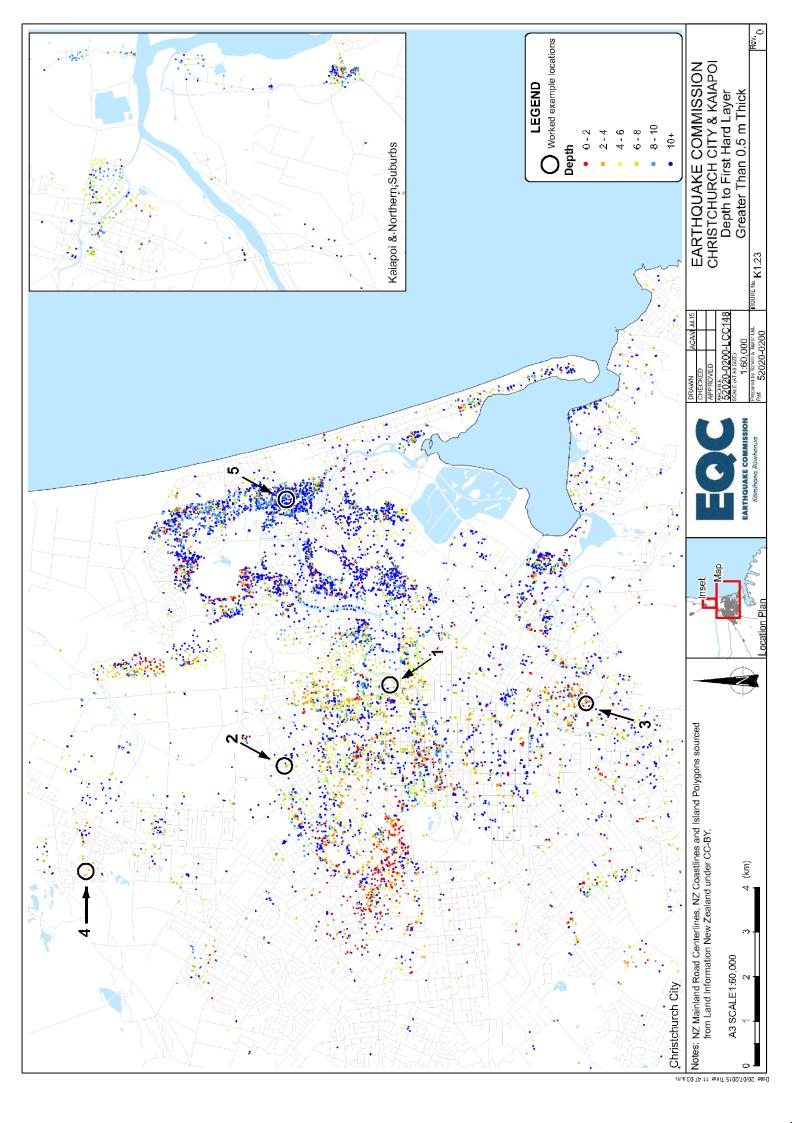


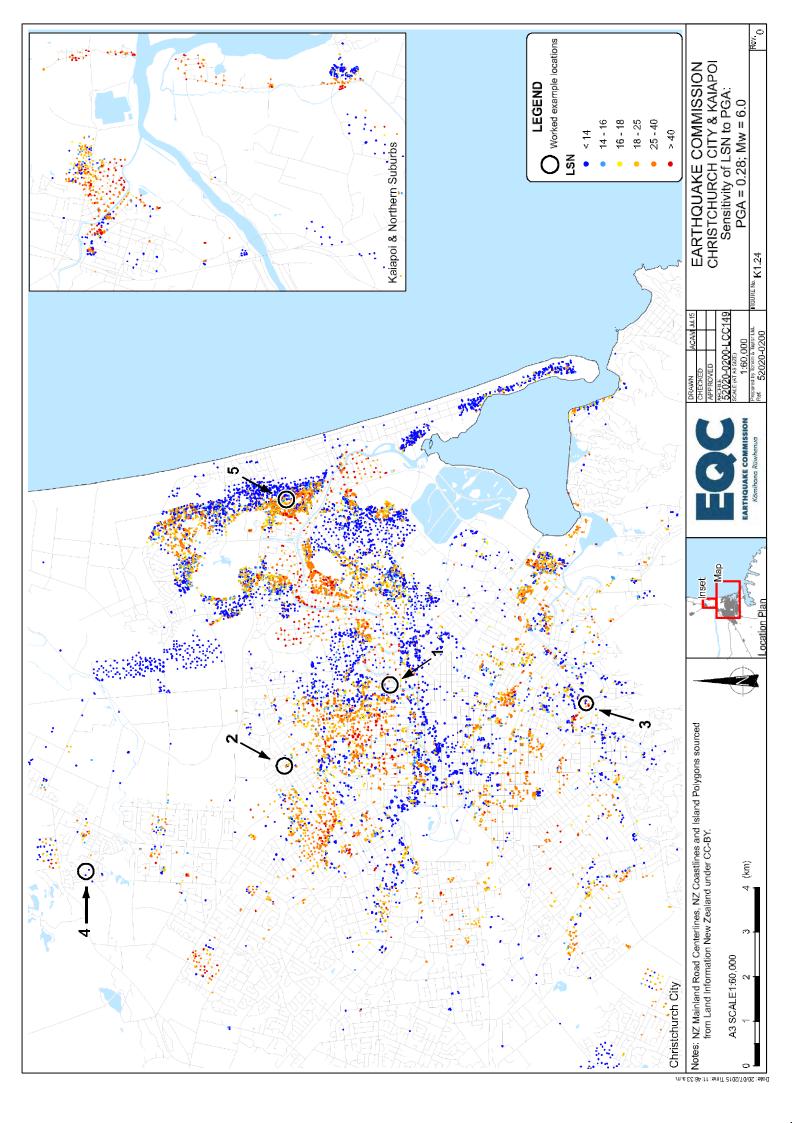


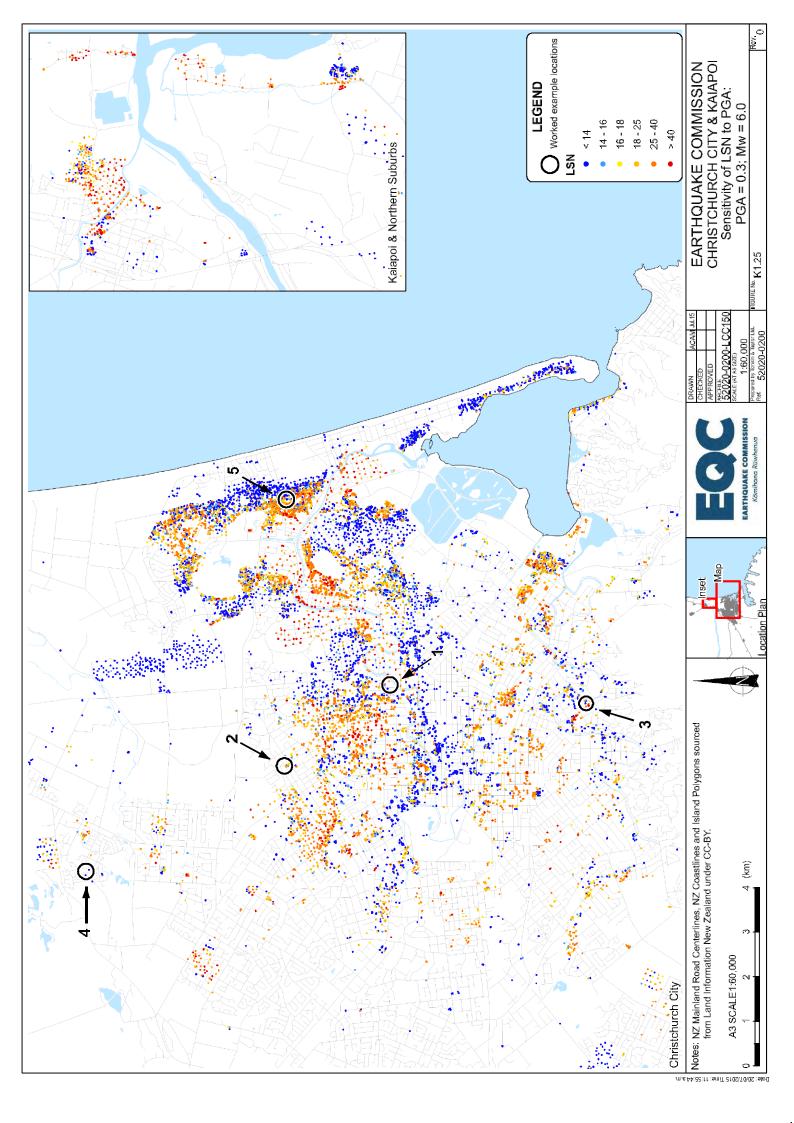


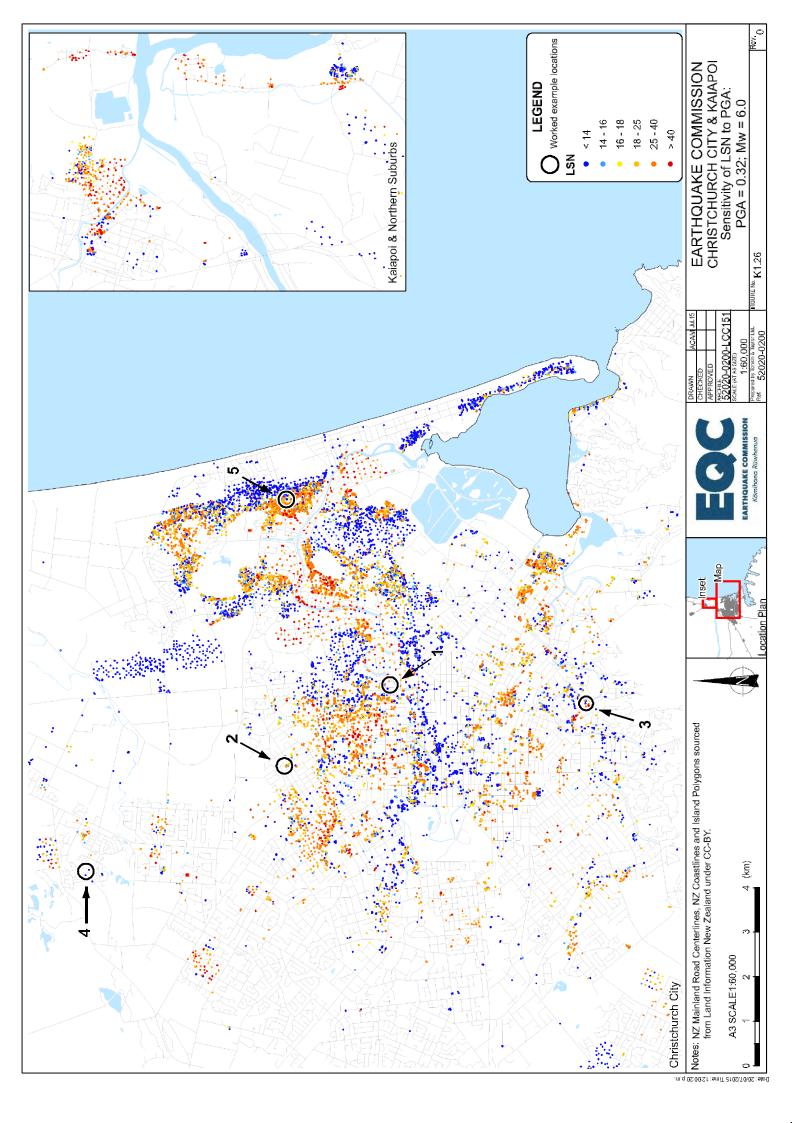


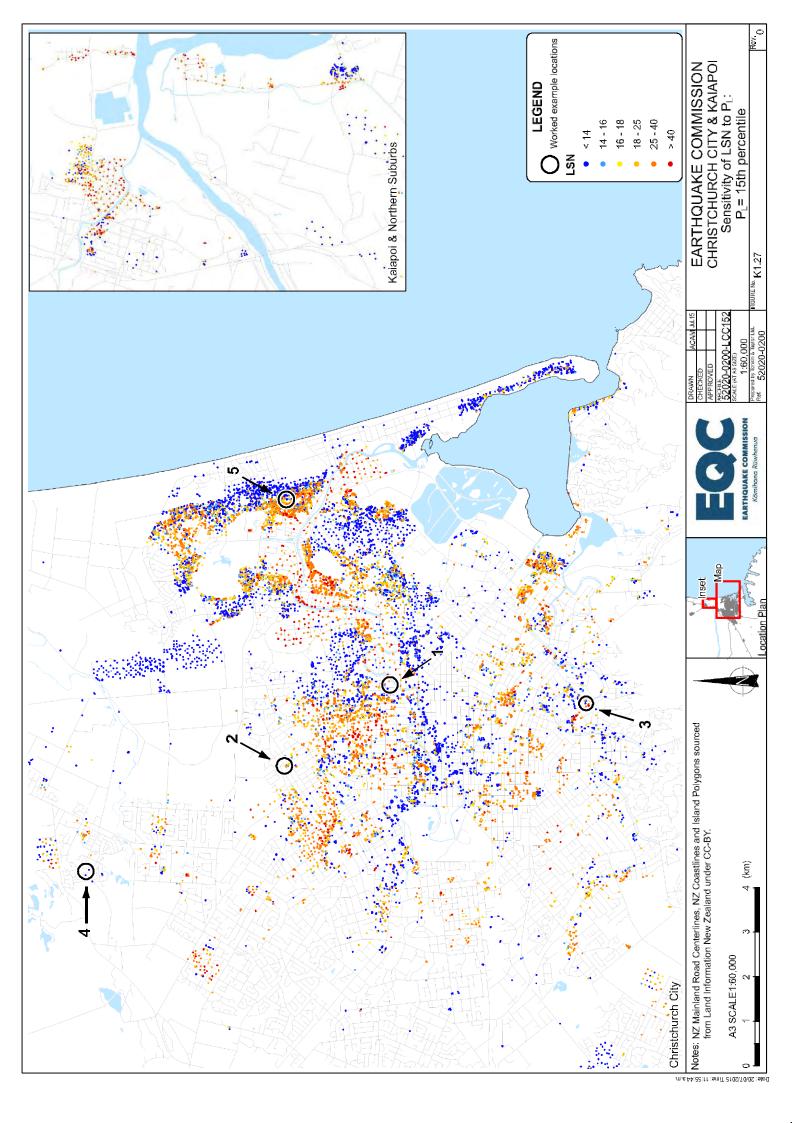


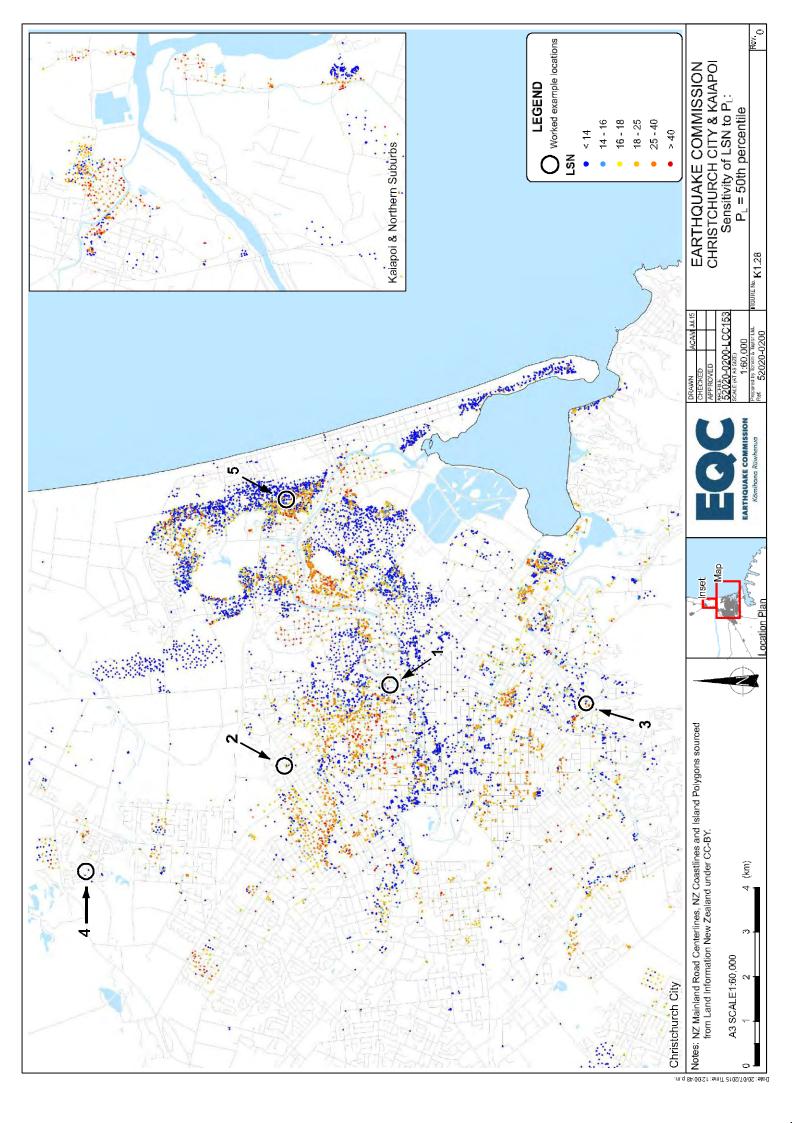


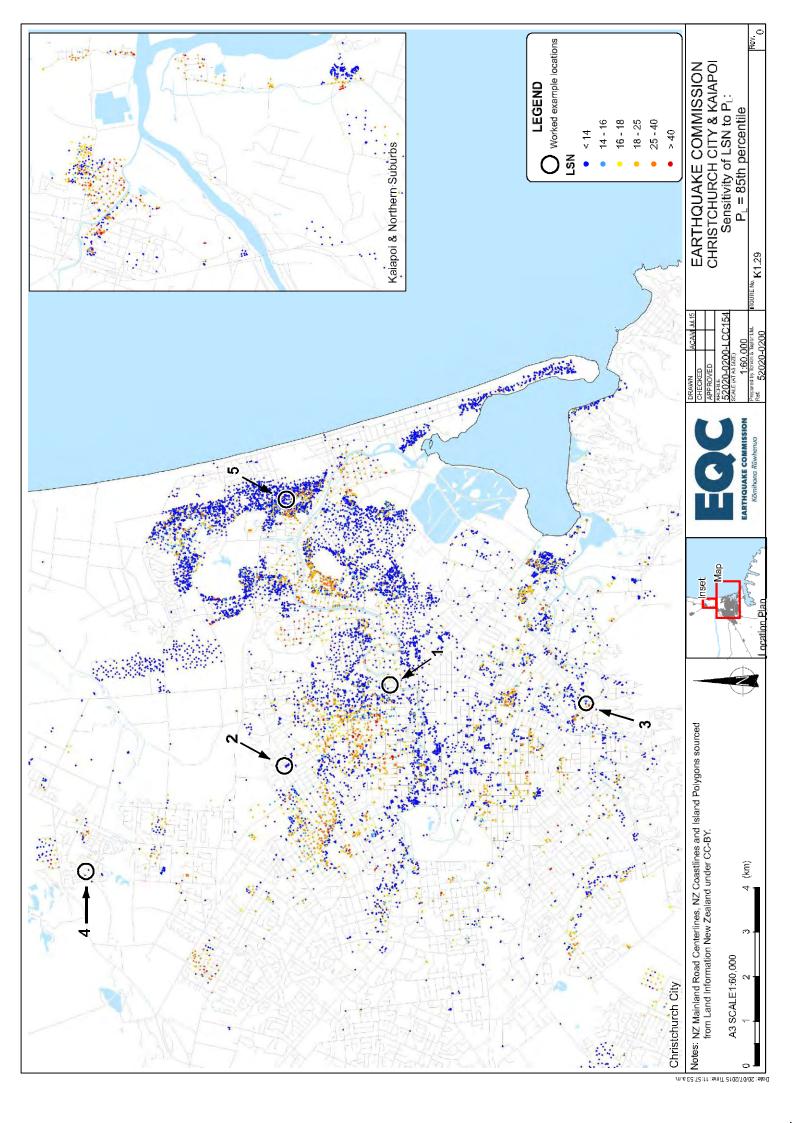


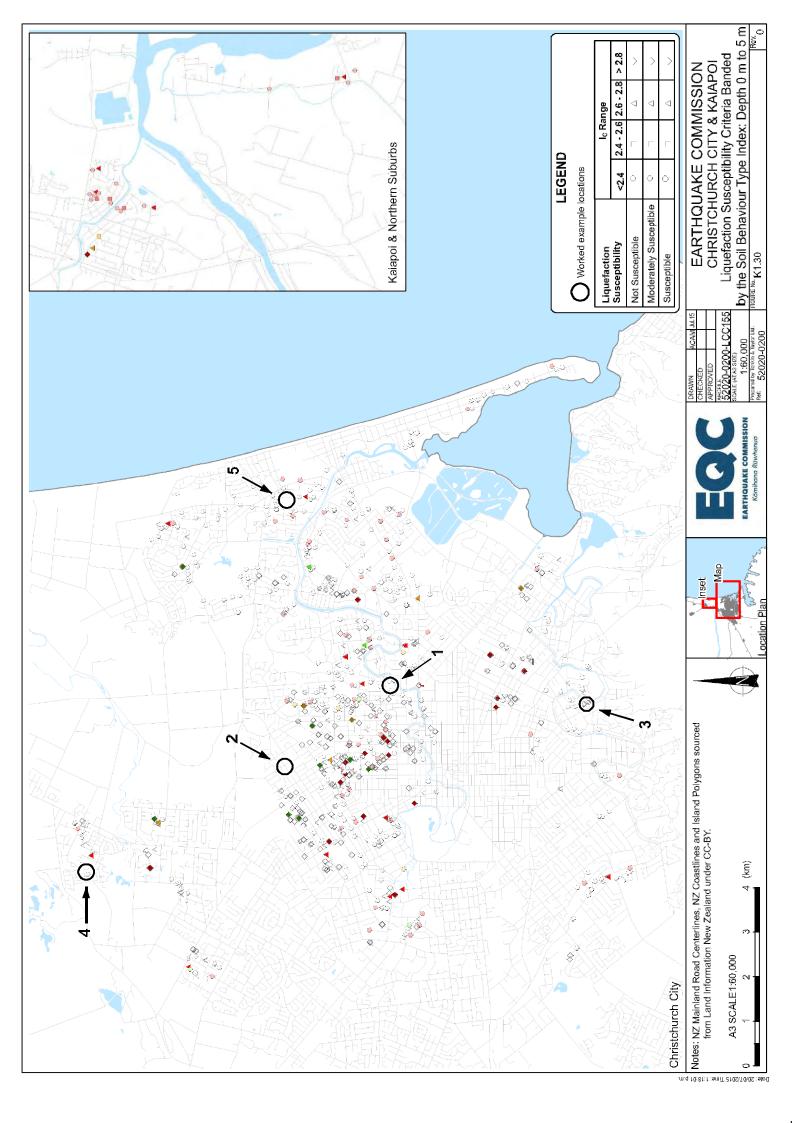


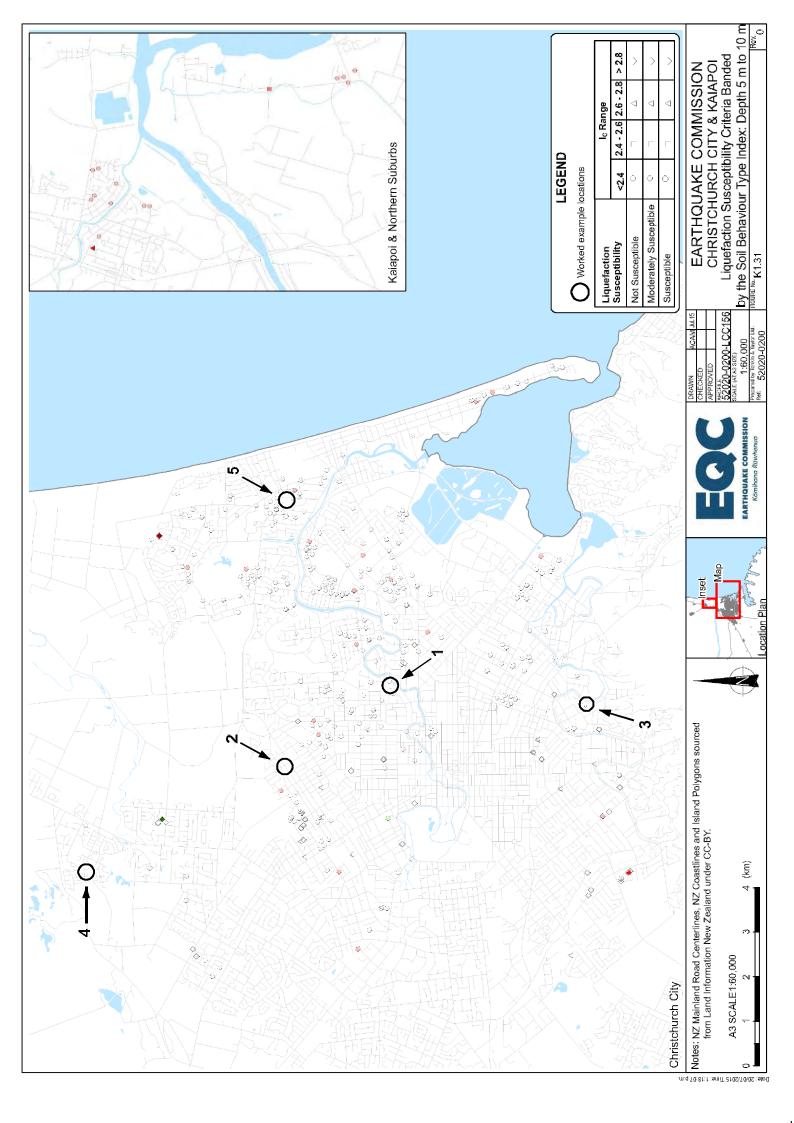


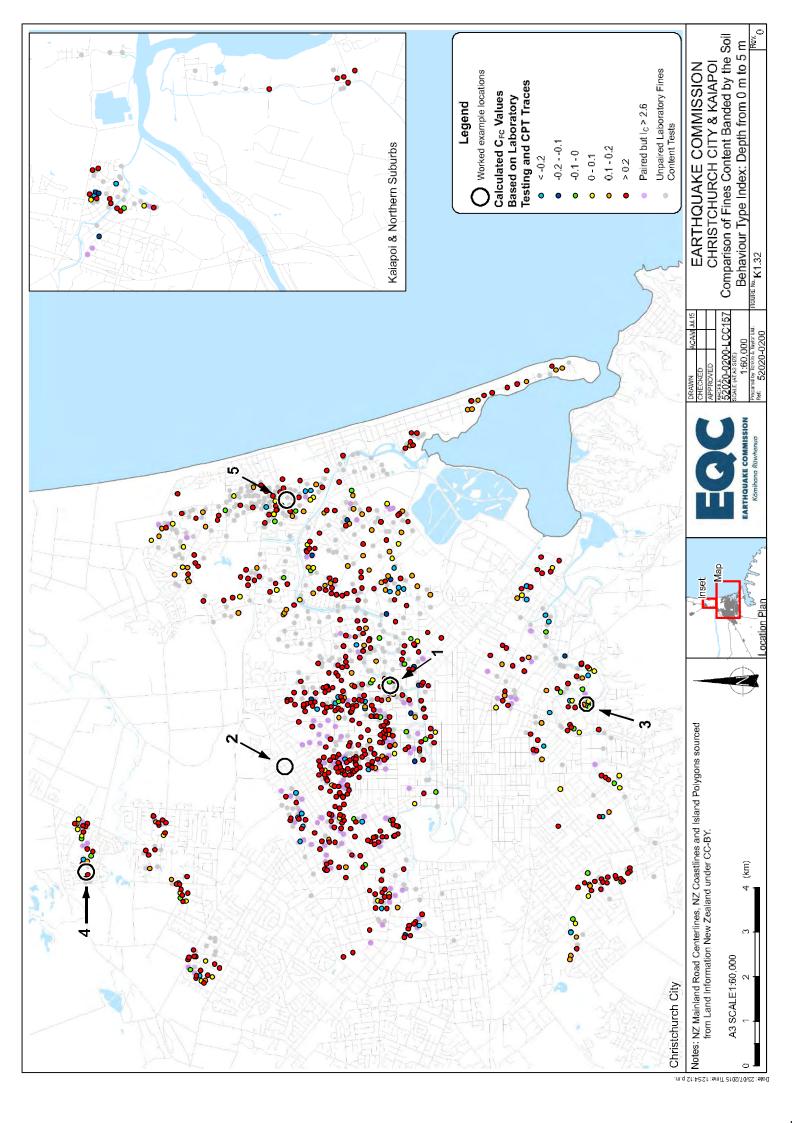


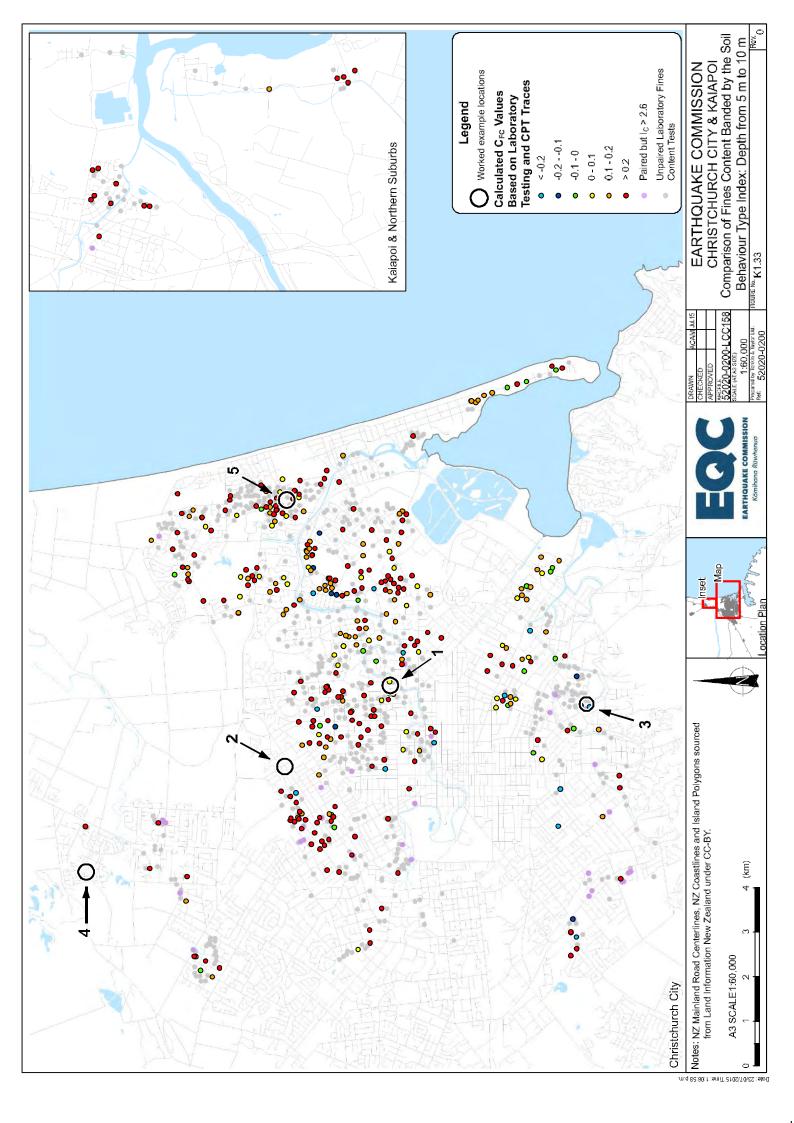


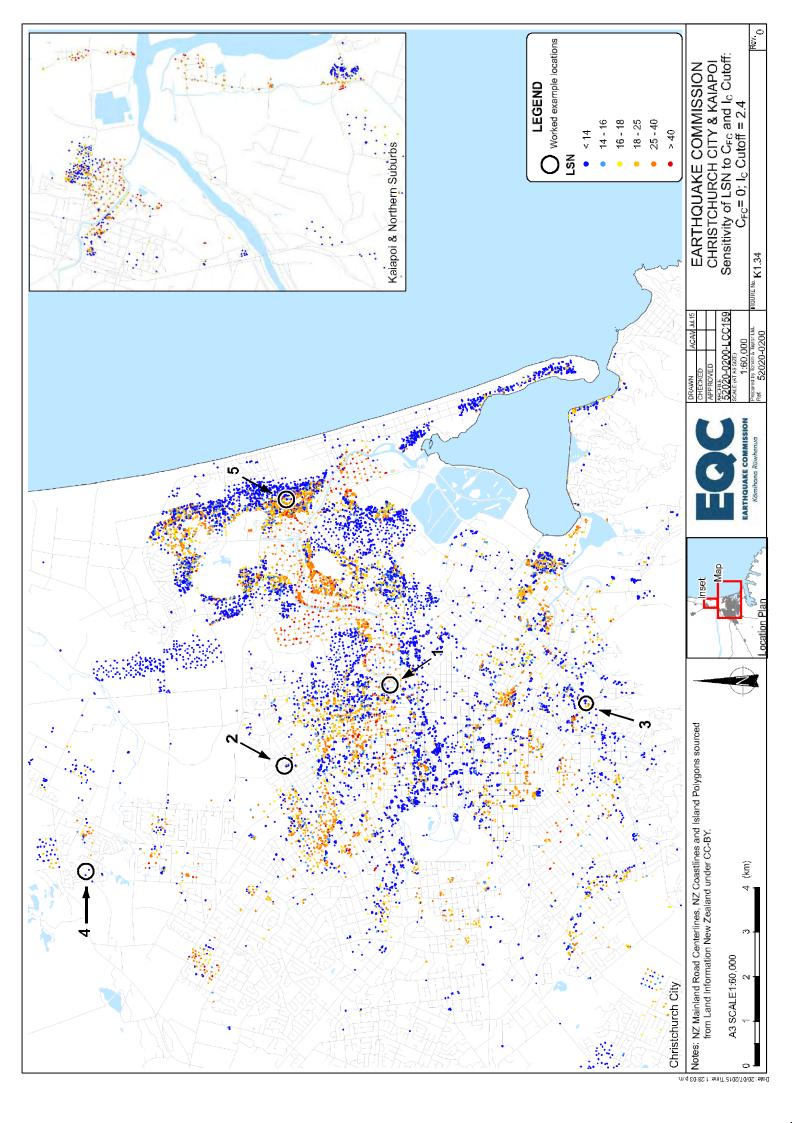


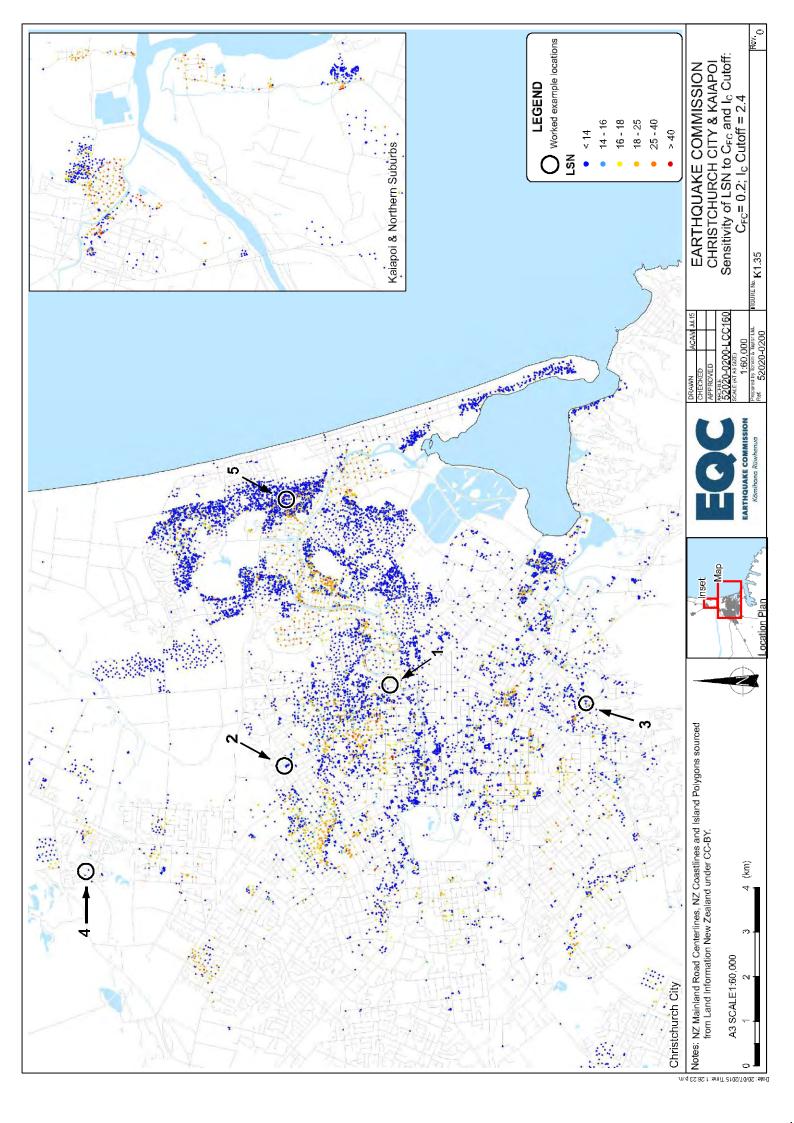


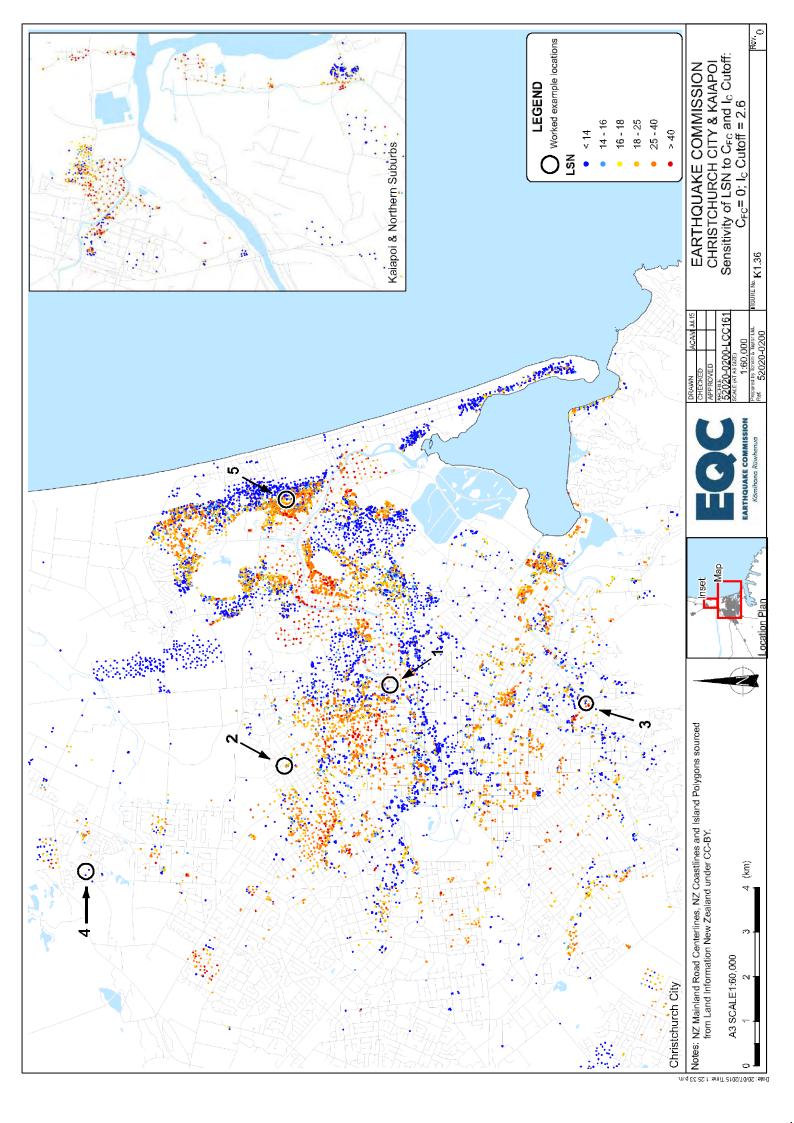


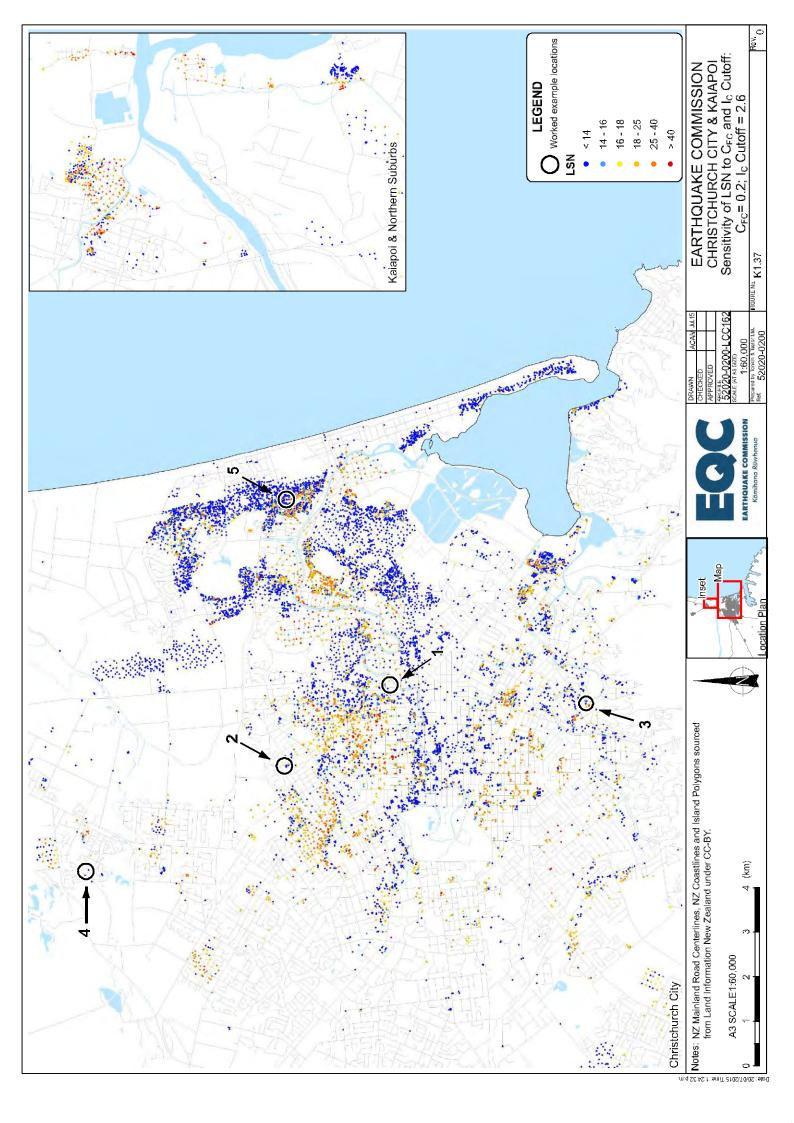


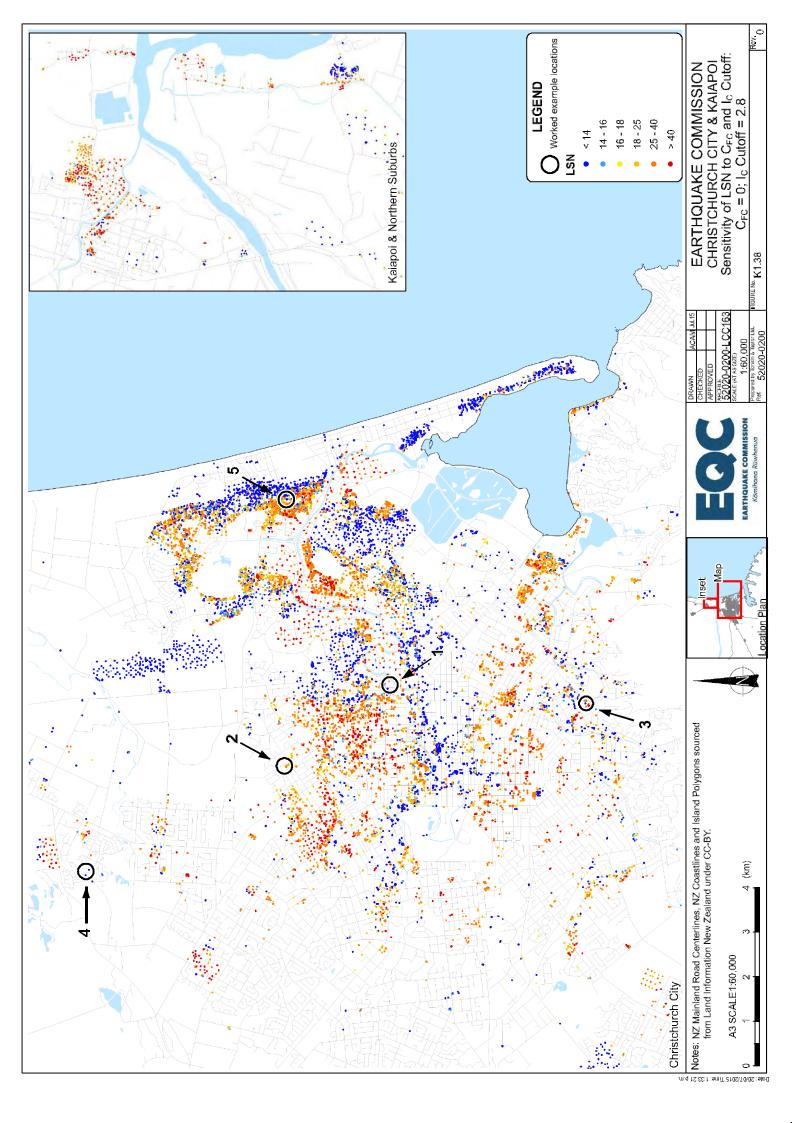


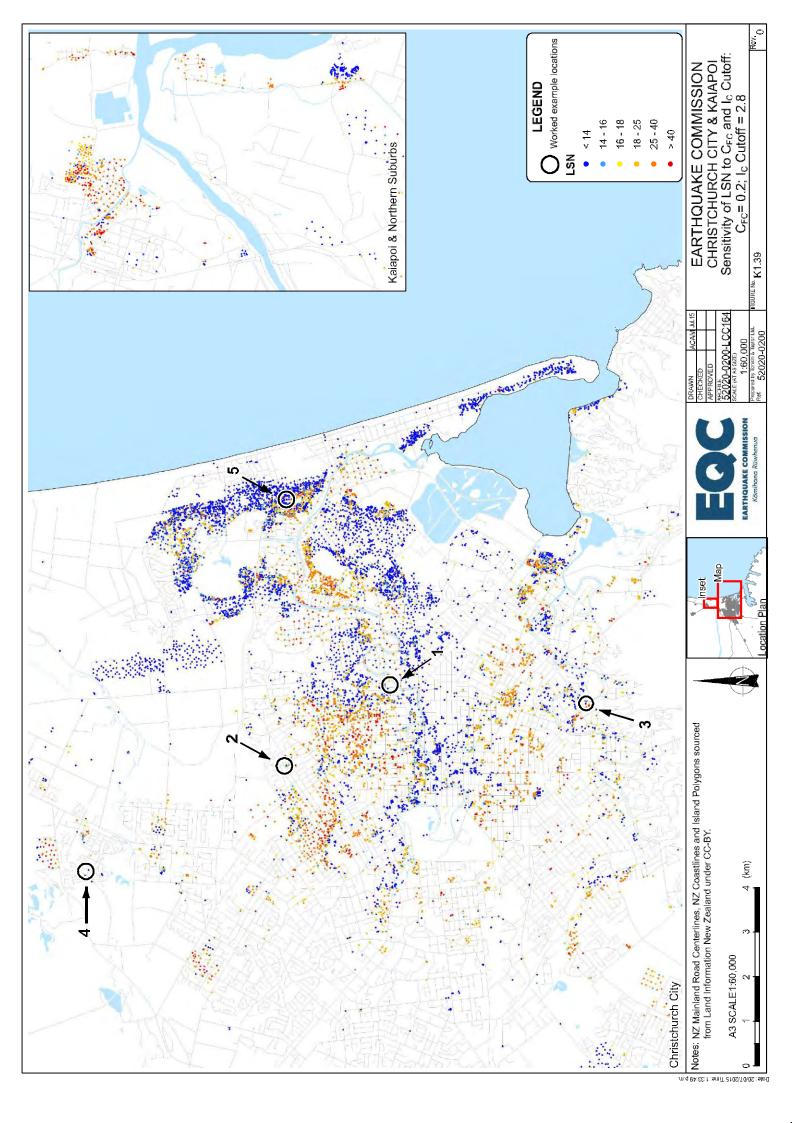












## Appendix K2 – Additional Maps Relevant To the ILV Assessment Process

- Figure K2.1 Overall Differential Foundation Settlement
- Figure K2.2 Building Damage Ratio (BDR)
- Figure K2.3 Liquefaction Severity Number
- Figure K2.4 Change in Liquefaction Severity Number
- Figure K2.5 Automated ILV Model (BI2014)
- Figure K2.6 Liquefaction Vulnerability

