

Land Observation Categories (September 2010)	
Land Observation Category	Criteria / Description
Blue	<ul style="list-style-type: none"> <li>• No observed cracks, undulations / deformations at the ground surface, and,</li> <li>• No signs of ejected liquefied material at the ground surface, and,</li> <li>• No apparent lateral movement.</li> </ul>
Green	<ul style="list-style-type: none"> <li>• Shaking-induced damage resulting from cyclic deformation and surface-waves causing ground surface damage. Ground surface damage likely limited to minor cracking (tension) and buckling (compression) and/or minor undulations at the ground surface, and,</li> <li>• No signs of ejected liquefied material at the ground surface, and,</li> <li>• No apparent lateral movement.</li> </ul>
Light Orange	<ul style="list-style-type: none"> <li>• Minor to moderate quantities of ejected liquefied material on ground surface (generally &lt;25% of site covered with ejected material), and/or,</li> <li>• Small cracks from ground oscillations (&lt;50 mm) may be present, but little to no vertical displacement across cracks, and,</li> <li>• No apparent lateral movement.</li> </ul>
Red	<p>Either</p> <ul style="list-style-type: none"> <li>• Large quantities of ejected liquefied material on ground surface (generally &gt;25% of the site covered with ejected material), and/or,</li> <li>• Severe observed ground surface subsidence, and/or;</li> <li>• Small cracks from ground oscillations (&lt;50 mm) may be present, but little to no vertical displacement across cracks, and,</li> <li>• Limited evidence of lateral movement.</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• Moderate to major lateral spreading (&lt;1 m cumulative), and/or,</li> <li>• Large cracks extending across the ground surface, with horizontal and/or vertical displacement (&gt;50 mm, but generally &lt;200 mm).</li> <li>• Ejection of liquefied material at the ground surface may also be observed</li> </ul>
Dark Red	<ul style="list-style-type: none"> <li>• Extensive lateral spreading (<math>\geq 1</math> m cumulative), and/or,</li> <li>• Large open cracks extending through the ground surface, with very severe horizontal and/or vertical displacements (<math>\geq 200</math> mm), and,</li> <li>• Ejection of liquefied material at the ground surface may also be observed.</li> </ul>

Figure A.2A

Land Observation Categories (February 2011 and June 2011)	
Land Observation Category	Criteria / Description
Blue	<ul style="list-style-type: none"> <li>• No observed cracks, undulations / deformations at the ground surface, and,</li> <li>• No signs of ejected liquefied material at the ground surface, and,</li> <li>• No apparent lateral movement.</li> </ul>
Green	<ul style="list-style-type: none"> <li>• Shaking-induced damage resulting from cyclic deformation and surface-waves causing ground surface damage. Ground surface damage likely limited to minor cracking (tension) and buckling (compression) and/or minor undulations at the ground surface, and,</li> <li>• No signs of ejected liquefied material at the ground surface, and,</li> <li>• No apparent lateral movement.</li> </ul>
Light Orange	<ul style="list-style-type: none"> <li>• Minor to moderate quantities of ejected liquefied material on ground surface (generally &lt;25% of site covered with ejected material), and/or,</li> <li>• Small cracks from ground oscillations (&lt;50 mm) may be present, but little to no vertical displacement across cracks, and,</li> <li>• No apparent lateral movement.</li> </ul>
Dark Orange	<ul style="list-style-type: none"> <li>• Large quantities of ejected liquefied material on ground surface (generally &gt;25% of the site covered with ejected material), and/or,</li> <li>• Severe observed ground surface subsidence, and/or;</li> <li>• Small cracks from ground oscillations (&lt;50 mm) may be present, but little to no vertical displacement across cracks, and,</li> <li>• Limited evidence of lateral movement.</li> </ul>
Red	<ul style="list-style-type: none"> <li>• Moderate to major lateral spreading (&lt;1 m cumulative), and/or,</li> <li>• Large cracks extending across the ground surface, with horizontal and/or vertical displacement (&gt;50 mm, but generally &lt;200 mm).</li> <li>• Ejection of liquefied material at the ground surface may also be observed</li> </ul>
Dark Red	<ul style="list-style-type: none"> <li>• Extensive lateral spreading (<math>\geq 1</math> m cumulative), and/or,</li> <li>• Large open cracks extending through the ground surface, with very severe horizontal and/or vertical displacements (<math>\geq 200</math> mm), and,</li> <li>• Ejection of liquefied material at the ground surface may also be observed.</li> </ul>

Figure A.2B