The following supplement accompanies the article

Habitat alteration and community-level effects of an invasive ecosystem engineer: a case study along the coast of NSW, Australia

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Supplement. Abundances of meiofaunal higher taxa and nematode morphospecies at each habitat within each site and results from permutational analysis of multivariate dispersion for meiofauna and nematode assemblages.

Table S1. Mean abundances of meiofaunal taxa (ind. 10 cm⁻²) at each habitat (unvegetated sediments and sediments underneath Caulerpa taxifolia or Zostera capricorni) within each site.

<table>
<thead>
<tr>
<th>Taxa</th>
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<th>Pittwater</th>
<th>Port Hacking</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C. taxifolia</td>
<td>Unvegetated</td>
<td>Z. capri-corni</td>
</tr>
<tr>
<td>Nematodes</td>
<td>1760</td>
<td>2537</td>
<td>1031</td>
</tr>
<tr>
<td>Copepods</td>
<td>372</td>
<td>331</td>
<td>239</td>
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<tr>
<td>Nauplii</td>
<td>73</td>
<td>239</td>
<td>185</td>
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<td>3</td>
<td>357</td>
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<td>10</td>
<td>6</td>
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<td>Amphipods</td>
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<td>54</td>
<td>0</td>
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<tr>
<td>Oligochaetes</td>
<td>3</td>
<td>10</td>
<td>0</td>
</tr>
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<td>Tardigrades</td>
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<td>54</td>
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<td>3</td>
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<td>Tanaids</td>
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<td>Gastrotrichia</td>
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<td>Gastropoda</td>
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<td>Isopoda</td>
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<td>0</td>
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<td>Sipuncula</td>
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Table S2. Results from permutational analysis of multivariate dispersion (PERMDISP) analysis for multivariate structure of meiofauna and nematode assemblages. LC: Lake Conjola; PW: Pittwater; PH: Port Hacking. Significant values in **bold**

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<thead>
<tr>
<th><strong>Meiofauna</strong></th>
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<tr>
<td>Habitat</td>
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<td>0.185</td>
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<td>Site ▽ Habitat</td>
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<td>0.284</td>
</tr>
</tbody>
</table>

<table>
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<th><strong>Pair-wise (Site)</strong></th>
<th><strong>t</strong></th>
<th><strong>p</strong></th>
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</thead>
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<tr>
<td>LC ▽ PW</td>
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<td><strong>0.001</strong></td>
</tr>
<tr>
<td>LC ▽ PH</td>
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<td><strong>0.001</strong></td>
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<td>PW ▽ PH</td>
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<th><strong>p</strong></th>
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</thead>
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<td><strong>0.014</strong></td>
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<td>Site ▽ Habitat</td>
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<td><strong>0.002</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Pair-wise (Site ▽ Habitat)</strong></th>
<th><strong>C. taxifolia</strong></th>
<th><strong>Z. capricorni</strong></th>
<th><strong>Unvegetated</strong></th>
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</thead>
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<td></td>
<td><strong>t</strong></td>
<td><strong>p</strong></td>
<td><strong>t</strong></td>
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<td>LC ▽ PW</td>
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<td>PW ▽ PH</td>
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<table>
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<th><strong>Pittwater</strong></th>
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</thead>
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<tr>
<td><strong>t</strong></td>
<td><strong>p</strong></td>
<td><strong>t</strong></td>
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Table S3. Relative abundances (average of 4 replicates) of nematode morphospecies at each habitat (unvegetated sediments and sediments underneath *Caulerpa taxifolia* or *Zostera capricorni*) within each site.

<table>
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<th><strong>Lake Conjola</strong></th>
<th><strong>Port Hacking</strong></th>
<th><strong>Pittwater</strong></th>
</tr>
</thead>
<tbody>
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<td><strong>Unvegetated</strong></td>
<td><strong>Z. Capri -corni</strong></td>
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<td><em>Viscosia</em> sp.1</td>
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<td>7.9</td>
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<td>Dichromadora sp.2</td>
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<td>Sabatieria sp.2</td>
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