**Dissoved Ni**

<table>
<thead>
<tr>
<th>Deployments</th>
<th>Distribution to dissolved Ni</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1.9 μg/L 1.3 μg/L 3.4 μg/L 4.6 μg/L 3.3 μg/L 14 μg/L 18 μg/L 2.5 μg/L 12 μg/L</td>
</tr>
</tbody>
</table>

**Dissoved Zn**

<table>
<thead>
<tr>
<th>Deployments</th>
<th>Distribution to dissolved Zn</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>9.53 μg/L 4.0 μg/L 10 μg/L 13 μg/L 16 μg/L 6.2 μg/L 6.2 μg/L 14 μg/L 6.4 μg/L</td>
</tr>
</tbody>
</table>

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Supplementary Material (ESI) for Journal of Environmental Monitoring

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**Fig. 1** DGT-labile metal concentrations as fractions of the total dissolved concentration

- DGT-RG labile concentration (DGT-RG excludes most organic species; thus, DGT-RG labile concentration may be defined as labile inorganics
- the difference of DGT-APA and DGT-RG–labile concentrations (DGT-APA labile– and DGT-RG–labile); this difference can be defined as the concentration of labile metal organic species.
- non-labile portion

Values given for dissolved metal concentrations are the average concentrations of hourly samples collected within the deployment periods.

Deployment No. 1 was excluded, because 13 samples out of 24 were not collected owing to trouble with the automatic sampler.
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Fig. 2 Graphical relationships among metal concentrations on dry days and after rain events

Rain 2 and Rain 3 samples were limited to the rainy hours at the sampling site. For Rain 1, hourly samples collected when the water level at the sampling site was high were selected and compared.

DL detection limit
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**Fig. 3** Average metal concentrations vs. average flow rate in DGT deployment periods (average concentrations and flow rates were determined for 10 DGT deployment periods; eight out of 10 were 48-h periods and the rest were 72-h periods).

The average flow rate for each deployment period was calculated by averaging the flow rates determined hourly throughout the deployment period.

▲ dissolved metal concentration

□ DGT-APA–labile metal concentration

♦ DGT-RG–labile metal concentration

□ metal loads in the period that included rain events

♦♦ concentration and load in the period after Rain 3