## Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 1/2 >

(Data summarized on August 23)

### Offshore of Minamisanriku (T-MG0)

<table>
<thead>
<tr>
<th>Place of Sampling (Place No.)</th>
<th>Offshore of Minamisanriku (T-MG0)</th>
<th>Ishinomaki Bay (T-MG1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper Layer</td>
<td>Middle Layer</td>
</tr>
<tr>
<td>Time of Sampling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jul 2, 2013 8:36 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detected Nuclides (Half-life)</td>
<td>Density of Sample (Bq/L)</td>
<td>Scaling Factor (①/②)</td>
</tr>
<tr>
<td>Cs-134 (Approx. 2 years)</td>
<td>ND</td>
<td>-</td>
</tr>
<tr>
<td>Cs-137 (Approx. 30 years)</td>
<td>0.0019</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>0.0016</td>
<td>0.00</td>
</tr>
</tbody>
</table>

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* "ND" indicates that the measurement result is below the detection limit.
* Cs-134: Approx. 0.0015Bq/L
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.
* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)
* Analyzed by: THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.
Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 2/2 >
(Data summarized on August 23)

<table>
<thead>
<tr>
<th>Place of Sampling (Place No.)</th>
<th>Offshore of Shichigahama (T-MG4)</th>
<th>Central Area of Sendai Bay (T-MG5)</th>
<th>② Density Limit Specified by the Reactor Regulation (Bq/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper Layer</td>
<td>Middle Layer</td>
<td>Lower Layer</td>
</tr>
<tr>
<td>Detected Nuclides (Half-life)</td>
<td>① Density of Sample (Bq/L)</td>
<td>① Density of Sample (Bq/L)</td>
<td>① Density of Sample (Bq/L)</td>
</tr>
<tr>
<td></td>
<td>Scaling Factor (①/②)</td>
<td>Scaling Factor (①/②)</td>
<td>Scaling Factor (①/②)</td>
</tr>
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<td>① Density of Sample (Bq/L)</td>
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</tr>
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<td></td>
<td>Scaling Factor (①/②)</td>
<td>Scaling Factor (①/②)</td>
<td>Scaling Factor (①/②)</td>
</tr>
<tr>
<td>Cs-134 (Approx. 2 years)</td>
<td>0.0040 0.00 0.0036 0.00 0.0050 0.00</td>
<td>0.0027 0.00 0.0083 0.00 0.010 0.00</td>
<td>0.0027 0.00 0.0083 0.00 0.010 0.00</td>
</tr>
<tr>
<td>Cs-137 (Approx. 30 years)</td>
<td>0.010 0.00 0.0074 0.00 0.010 0.00</td>
<td>0.0068 0.00 0.0068 0.00 0.010 0.00</td>
<td>0.0068 0.00 0.0068 0.00 0.010 0.00</td>
</tr>
</tbody>
</table>

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* "ND" indicates that the measurement result is below the detection limit.
* Analyzed by: THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

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Cs-134: Approx.0.0015Bq/L
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

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<table>
<thead>
<tr>
<th>Place of Sampling (Place No.)</th>
<th>Offshore of Abukuma River (T-MG6)</th>
<th>② Density Limit Specified by the Reactor Regulation (Bq/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper Layer</td>
<td>Middle Layer</td>
</tr>
<tr>
<td>Detected Nuclides (Half-life)</td>
<td>① Density of Sample (Bq/L)</td>
<td>① Density of Sample (Bq/L)</td>
</tr>
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<td>Scaling Factor (①/②)</td>
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</tr>
<tr>
<td></td>
<td>Scaling Factor (①/②)</td>
<td>Scaling Factor (①/②)</td>
</tr>
<tr>
<td>Cs-134 (Approx. 2 years)</td>
<td>0.0040 0.00 ND - 0.0046 0.00</td>
<td>0.0083 - 0.0046 0.00</td>
</tr>
<tr>
<td>Cs-137 (Approx. 30 years)</td>
<td>0.0010 0.00 0.0021 0.00 0.0010 0.00</td>
<td>0.0069 0.00</td>
</tr>
</tbody>
</table>

* "ND" indicates that the measurement result is below the detection limit.

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*Cs-134: Approx.0.0015Bq/L*
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Upper Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Middle Layer (Bq/L)

- Cs-134 Density: 60 Bq/L
- Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Lower Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Upper Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Middle Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Lower Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Upper Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Middle Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Lower Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Upper Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Middle Layer (Bq/L)

- Cs-134 Density: 60 Bq/L
- Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Lower Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Upper Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Middle Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Lower Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Upper Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Middle Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Lower Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Upper Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Middle Layer (Bq/L)

Cs-134 Density: 60 Bq/L
Cs-137 Density: 90 Bq/L
Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Lower Layer (Bq/L)

Graph showing the radioactivity density of Cs-134 and Cs-137 over the period from May 10 to August 23. The Cs-134 density is shown with an 'X' marker, and the Cs-137 density is shown with a black dot. The density values are in Bq/L, with Cs-134 density reaching 60 Bq/L and Cs-137 density reaching 90 Bq/L.