

19-05-2011

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

**Your order reference:**

I-131, Cs-134 and Cs-137 in seaweed from Japan

**Your Sample Ref:**

L\_1\_20110503

**Our Reference:**

2826-5373-1

**Reference Date:**

03-05-2011

**Sample Description**

Hikado Port in Motoyoshi  
N 38'48'23.5" E 141'33'27.82"  
sea weed  
Laminaria Religiosa

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	180	15	Bq/kg				
<sup>134</sup> Cs	2.62	0.29	Bq/kg				
<sup>137</sup> Cs	2.11	0.38	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

(1) All reported uncertainties refer to the expanded uncertainty (coverage factor of k=2), providing a level of confidence of approximately 95%.

(2) Analysis based on High Resolution Gamma-ray Spectroscopy using the laboratory specific method MT.RNM.0001.

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19-05-2011

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in seaweed from Japan

### Your Sample Ref:

L\_9\_20110504

### Our Reference:

2826-5374-1

### Reference Date:

04-05-2011

### Sample Description

Tsurushihama-Port, (Shinchi) Fukushima  
N 37 52.562 E 140 56.256  
sea weed  
Undaria Pinnatifida

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	149	12	Bq/kg				
<sup>134</sup> Cs	7.7	0.6	Bq/kg				
<sup>137</sup> Cs	7.9	1.1	Bq/kg				

**Analysed By :** Michel Bruggeman

**Approved by :** Michel Bruggeman

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19-05-2011

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

**Your order reference:**

I-131, Cs-134 and Cs-137 in seaweed from Japan

**Your Sample Ref:**

L\_12\_20110504

**Our Reference:**

2826-5375-1

**Reference Date:**

04-05-2011

**Sample Description**

Tsurushihama-Port, (Shinchi) Fukushima  
N 37 52.562 E 140 56.256  
sea weed  
Sargassum Horneri

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	2190	170	Bq/kg				
<sup>134</sup> Cs	17.5	1.4	Bq/kg				
<sup>137</sup> Cs	15.3	1.8	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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18/05/2011

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

**Your order reference:**

I-131, Cs-134 and Cs-137 in seaweed from Japan

**Your Sample Ref:**

L\_23\_20110505

**Our Reference:**

2826-5376-0

**Reference Date:**

5/05/2011

**Sample Description**

Yotsukura Port  
N 37 06.527 E 140 59.877  
sea weed  
Laminaria Religiosa

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	107000	8000	Bq/kg				
<sup>134</sup> Cs	980	50	Bq/kg				
<sup>137</sup> Cs	990	60	Bq/kg				

**Analysed By :** Leen Verheyen

**Approved by :** Michel Bruggeman

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19-05-2011

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

**Your order reference:**

I-131, Cs-134 and Cs-137 in seaweed from Japan

**Your Sample Ref:**

L\_M\_20110509

**Our Reference:**

2826-5377-1

**Reference Date:**

09-05-2011

**Sample Description**

Kawarago Port, Ibaraki  
N 36 32.950 E 140 38.730  
sea weed  
Sargassum Horneri

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	620	50	Bq/kg				
<sup>134</sup> Cs	8.1	0.6	Bq/kg				
<sup>137</sup> Cs	7.8	0.8	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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19-05-2011

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

**Your order reference:**

I-131, Cs-134 and Cs-137 in seaweed from Japan

**Your Sample Ref:**

RW\_s5\_20110504

**Our Reference:**

2826-5378-1

**Reference Date:**

04-05-2011 11:11:00

**Sample Description**

collected from RW, 65 km south of Daiichi NPP  
36.45.506N 141 12.098E  
sea weed, smelly  
Sargassum Horneri

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	8.8	1.4	Bq/kg				
<sup>134</sup> Cs	< 0.8		Bq/kg				
<sup>137</sup> Cs	< 0.9		Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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(2) Analysis based on High Resolution Gamma-ray Spectroscopy using the laboratory specific method MT.RNM.0001.

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19-05-2011

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in seaweed from Japan

### Your Sample Ref:

RW\_s14\_20110505

### Our Reference:

2826-5379-1

### Reference Date:

05-05-2011 11:25:00

### Sample Description

collected from RW, 42 km north-east of Daiichi NPP  
37 34.165N 141 23.264E  
sea weed, fresh  
Sargassum Horneri

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	1750	140	Bq/kg				
<sup>134</sup> Cs	5.8	0.8	Bq/kg				
<sup>137</sup> Cs	4.0	1.3	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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2011-05-23

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in fish from Japan

### Your Sample Ref:

L\_C\_20110509

### Our Reference:

2834-5390-0

### Reference Date:

2011-05-09

### Sample Description

Offshore Nakoso Port (N36-52-223, E104-57-897), Fukushima  
N 36 52.223 E 104 57.897  
Anchovy  
Engraulis japonica

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	67	6	Bq/kg				
<sup>134</sup> Cs	608	28	Bq/kg				
<sup>137</sup> Cs	611	37	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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(2) Analysis based on High Resolution Gamma-ray Spectroscopy using the laboratory specific method MT.RNM.0001.

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2011-05-23

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in fish from Japan

### Your Sample Ref:

L\_T\_20110509

### Our Reference:

2834-5391-0

### Reference Date:

2011-05-09

### Sample Description

offshore Kuji port, Ibaraki

Morid Fish

Physiculus maximowiczi

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	< 1.8		Bq/kg				
<sup>134</sup> Cs	6.0	0.5	Bq/kg				
<sup>137</sup> Cs	6.0	1.1	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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2011-05-23

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in fish from Japan

### Your Sample Ref:

L\_13\_20110504

### Our Reference:

2834-5392-0

### Reference Date:

2011-05-04

### Sample Description

Tsurushihama-Port, (Shinchi) Fukushima  
N 37 52.562 E 140 56.256  
starfish  
Cellana toreuma

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	168	14	Bq/kg				
<sup>134</sup> Cs	467	21	Bq/kg				
<sup>137</sup> Cs	474	29	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

**Your order reference:**

I-131, Cs-134 and Cs-137 in fish from Japan

**Your Sample Ref:**

L\_18\_20110505

**Our Reference:**

2834-5393-0

**Reference Date:**

2011-05-05

**Sample Description**

Hisanohama-Port, Fukushima  
N 37 08.856 E 141 00.107  
Sea Cucumber  
Stichopus japonica Celenka

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	1240	100	Bq/kg				
<sup>134</sup> Cs	646	30	Bq/kg				
<sup>137</sup> Cs	639	39	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in fish from Japan

### Your Sample Ref:

L\_21\_20110505

### Our Reference:

2834-5394-0

### Reference Date:

2011-05-05

### Sample Description

Yotsukura-Port, Fukushima  
N 37 06.527 E 140 59.877  
Oysters  
Crassostrea gigas or Crassostrea nippona

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	417	35	Bq/kg				
<sup>134</sup> Cs	378	18	Bq/kg				
<sup>137</sup> Cs	362	23	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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2011-05-23

## Analysis Report<sup>2</sup>

Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in fish from Japan

### Your Sample Ref:

L\_24\_20110505

### Our Reference:

2834-5395-0

### Reference Date:

2011-05-05

### Sample Description

Offshore structure at Onahama-Port  
N 36 55.233 E 140 53.041  
Morid fish  
Physiculus maximowiczi

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	60	8	Bq/kg				
<sup>134</sup> Cs	427	20	Bq/kg				
<sup>137</sup> Cs	430	27	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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Vande Putte Jan  
Greenpeace Belgium  
Haachtsesteenweg 159  
1030 Brussel

### Your order reference:

I-131, Cs-134 and Cs-137 in fish from Japan

### Your Sample Ref:

L\_27\_20110505

### Our Reference:

2834-5396-0

### Reference Date:

2011-05-05

### Sample Description

Ena-Port, Fukushima  
N 36 58.231 E 140 57.708  
Shurigai  
Septifer virgatus or Mytilus galloprovincialis

Nuclide	Activity	Uncert. <sup>1</sup>	Unit	Nuclide	Activity	Uncert. <sup>1</sup>	Unit
<sup>131</sup> I	950	80	Bq/kg				
<sup>134</sup> Cs	400	18	Bq/kg				
<sup>137</sup> Cs	406	25	Bq/kg				

**Analysed By :** Katrien Smits

**Approved by :** Michel Bruggeman

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