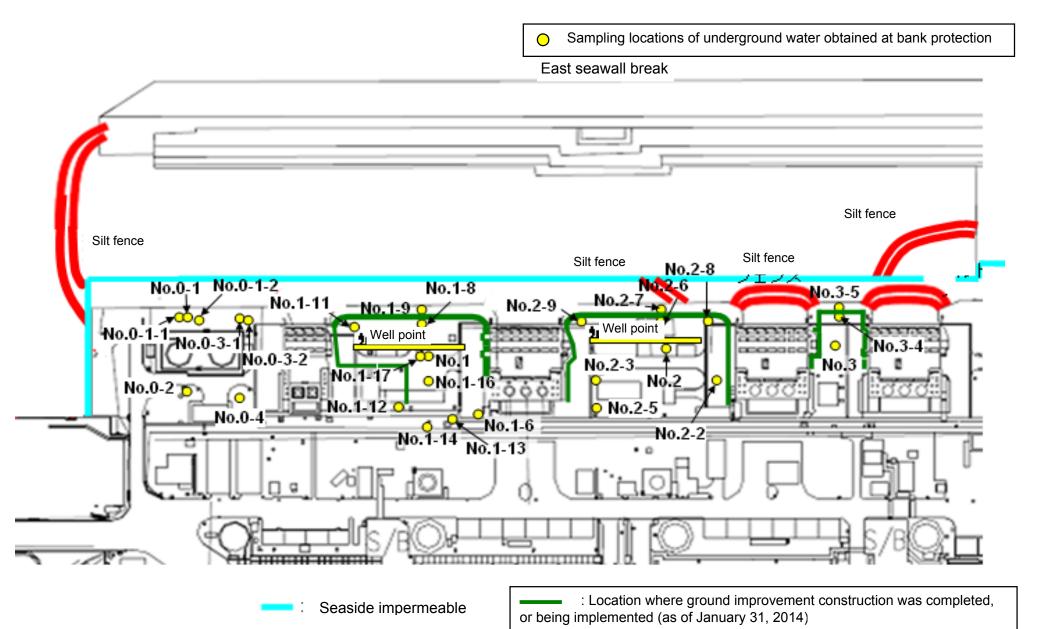
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



## Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/3) Underground Water Obtained at Bank Protection

Unit: Bg/L (exclude chloride)

|         |                         | Underground<br>water observation<br>hole No.0-1 | Underground<br>water observation<br>hole No.0-1-2 | Underground<br>water observation<br>hole No.0-2 | Underground<br>water observation<br>hole No.0-3-1 | Underground<br>water observation<br>hole No.0-3-2 | Underground<br>water observation<br>hole No.0-4 | Underground<br>water observation<br>hole No.1 | Underground<br>water observation<br>hole No.1-6 | Underground<br>water observation<br>hole No.1-8 | Underground<br>water observation<br>hole No.1-9 | Underground<br>water observation<br>hole No.1-11 | Underground<br>water observation<br>hole No.1-12 | Underground<br>water observation<br>hole No.1-14 | Underground<br>water observation<br>hole No.1-16 |
|---------|-------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
|         | Date of sampling        |   | /   | /   | /   | 1 /   | 1   | /   | /   | 1   | 1 /   | /  | 1 /  | 1  | 1  |
|         | Time of sampling        |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|         | Chloride (unit: ppm)    |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| С       | s-134 (Approx. 2 years) |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Cs      | s-137 (Approx.30 years) |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|         |                         |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| The     |                         |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| other y |                         |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|         |                         |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|         | Gross β                 |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ı       | H-3 (Approx. 12 years)  | /   |   | /   | /   |   |   | /   |   |   |   | /  |  |  |  |
| Sı      | r-90 (Approx. 29 years) | /   |   | /   | /   | /   | /   |   |   | /   | /   | /  | /  | /  | /  |

|         |                          | Underground<br>water observation<br>hole No.1-17 | Groundwater<br>pumped up from<br>the well point<br>(between Unit 1<br>and 2) | Underground<br>water observation<br>hole No.2 | Underground<br>water observation<br>hole No.2-2 | Underground<br>water observation<br>hole No.2-3 | Underground<br>water observation<br>hole No.2-5 | Underground<br>water observation<br>hole No.2-6 | Underground<br>water observation<br>hole No.2-7 | Underground<br>water observation<br>hole No.2-8* | Groundwater<br>pumped up from<br>the well point<br>(between Unit 2<br>and 3) | Underground<br>water observation<br>hole No.3 | Underground<br>water observation<br>hole No.3-4 | Underground<br>water observation<br>hole No.3-5 |
|---------|--------------------------|--|--|---|---|---|---|---|---|--|--|---|---|---|
|         | Date of sampling         | /  | /  | Mar 2, 2014                                   | Mar 2, 2014                                     | Mar 2, 2014                                     | /   | /   | Mar 2, 2014                                     | Mar 2, 2014                                      | Mar 2, 2014  | /   | /   | /   |
|         | Time of sampling         |  |  | 10:43 AM                                      | 11:51 AM  | 10:05 AM  |   | /   | 11:05 AM  | 12:45 PM   | 10:00 AM   |   |   |   |
|         | Chloride (unit: ppm)     |  |  | -   | -   | -   |   |   | 800   | -  | -  |   |   |   |
| С       | Cs-134 (Approx. 2 years) |  |  | ND(0.41)                                      | 12  | 0.52  |   |   | 0.77  | -  | ND(0.59)   |   |   |   |
| С       | Cs-137 (Approx.30 years) |  |  | 0.73  | 33  | 1.1   |   |   | 1.5   | -  | 1.0  |   |   |   |
|         |                          |  |  |   |   |   |   |   |   |  |  |   |   |   |
| The     |                          |  |  |   |   |   |   |   |   |  |  |   |   |   |
| other y |                          |  |  |   |   |   |   |   |   |  |  |   |   |   |
|         |                          |  |  |   |   |   |   |   |   |  |  |   |   |   |
|         | Gross β                  |  |  | 340   | 510   | 980   |   |   | 440   | 1,500  | 120,000  |   |   |   |
|         | H-3 (Approx. 12 years)   | /  |  | 700   | 500   | 1,100   |   |   | 790   | 950 <sup>*1</sup>                                | 4,400  | /   |   |   |
| S       | Gr-90 (Approx. 29 years) | /  | /  | -   | -   | -   |   | /   | -   | -  | -  | /   | /   |   |

<sup>\*</sup> Data announced this time is provided in a thick-frame. The other data was announced on March 3.

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

 $<sup>\</sup>mbox{\ensuremath{^{*}}}\mbox{\ensuremath{^{"}}}\mbo$ 

<sup>\*</sup> The results obtained on in the observation hole No.2-8 are for a reference, since the water was highly turbid. (γ and Gross β will be measured after filtration. If filtration takes a long time, γ will not be measured.)

<sup>\*1</sup> The highest measurement value (compared to the previous values provided in the handouts published in 'Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection')

## Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/3) **Underground Water Obtained at Bank Protection**

|                          | Underground<br>water observation<br>hole No.0-1  | Underground<br>water observation<br>hole No.0-1-2                | Underground<br>water observation<br>hole No.0-2 | Underground<br>water observation<br>hole No.0-3-1 | Underground water observation hole No.0-3-2     | Underground<br>water observation<br>hole No.0-4 | Underground water observation hole No.1         | Underground<br>water observation<br>hole No.1-6 | Underground<br>water observation<br>hole No.1-8  | Underground<br>water observation<br>hole No.1-9                              | Underground<br>water observation<br>hole No.1-11 | Underground<br>water observation<br>hole No.1-12 | Underground<br>water observation<br>hole No.1-14 | Underground<br>water observati<br>hole No.1-16 |
|--------------------------|--|--|---|---|---|---|---|---|--|--|--|--|--|--|
| Date of sampling         | ,  | 1  | Λ /   | /   | 1   | /   | /   | 1 /   | ,  | 1 /  | /  | 1  | /  |  |
| Time of sampling         |  |  |   |   |   |   | /   |   | /  |  |  |  |  |  |
| Chloride (unit: ppm)     |  |  |   |   |   |   |   |   |  |  |  |  |  | /  |
| Cs-134 (Approx. 2 years) |  |  |   |   |   |   |   |   |  |  |  |  |  | /  |
| Cs-137 (Approx.30 years) |  |  |   |   |   |   |   |   |  |  |  |  |  |  |
|                          |  |  |   |   |   |   |   |   |  |  |  |  |  |  |
| The                      |  |  |   |   |   |   |   |   |  |  |  |  |  |  |
| other y                  |  |  |   |   |   |   |   |   | /  |  |  |  | /  |  |
|                          | 1/   |  |   |   |   |   |   |   |  |  |  |  |  |  |
| Gross β                  |  |  |   |   |   |   |   |   |  |  |  |  |  |  |
| H-3 (Approx. 12 years)   | 1/   |  | 1/  | /   | /   | /   | /   | /   | /  | /  |  | /  | /  | /  |
| Sr-90 (Approx. 29 years) | /  | /  | /   | /   | /   |   | /   | /   | /  | /  |  | /  | /  |  |
|                          | Underground<br>water observation<br>hole No.1-17 | Groundwater pumped up from the well point (between Unit 1 and 2) | Underground<br>water observation<br>hole No.2   | Underground<br>water observation<br>hole No.2-2   | Underground<br>water observation<br>hole No.2-3 | Underground<br>water observation<br>hole No.2-5 | Underground<br>water observation<br>hole No.2-6 | Underground<br>water observation<br>hole No.2-7 | Underground<br>water observation<br>hole No.2-8* | Groundwater<br>pumped up from<br>the well point<br>(between Unit 2<br>and 3) | Underground<br>water observation<br>hole No.3    | Underground<br>water observation<br>hole No.3-4  | Underground<br>water observation<br>hole No.3-5  |  |
| Date of sampling         |  | 1  | Mar 5, 2014                                     | Mar 5, 2014                                       | Mar 5, 2014                                     | /   | 1   | Mar 5, 2014                                     | Mar 5, 2014                                      | Mar 5, 2014  | Mar 5, 2014                                      | Mar 5, 2014                                      | Mar 5, 2014                                      |  |
| Time of sampling         | /  |  | 9:34 AM   | 10:33 AM  | 9:03 AM   |   |   | 9:53 AM   | 11:25 AM   | 10:00 AM   | 9:59 AM  | 10:30 AM   | 10:22 AM   |  |
| Chloride (unit: ppm)     |  |  | -   | -   | -   |   |   | 800   | -  | -  | -  | -  | 320  |  |
| Cs-134 (Approx. 2 years) |  |  | ND(0.43)  | 14  | 0.53  |   |   | 0.49  | -  | ND(0.54)   | 0.63   | 1.6  | 30   |  |
| Cs-137 (Approx.30 years) |  |  | 0.85  | 33  | 1.2   |   |   | 1.70  | -  | 1.2  | 2.4  | 4.3  | 82   |  |
|                          |  |  |   |   |   |   |   |   |  |  |  |  |  | ]  |
| 1                        | 1 /  | 1 /  | 1   | 1   | 1   | 1 /   | 1 /   | 1   | 1  | 1  | I  | 1  | 1  | I  |

440

Under analysis

2,700\*1

Under analysis

120,000

Under analysis

ND(21)

Under analysis

ND(19)

Under analysis

28

Under analysis

330

Under analysis

Gross B

H-3 (Approx. 12 years)

Sr-90 (Approx. 29 years)

other

510

Under analysis

1,100

Under analysis

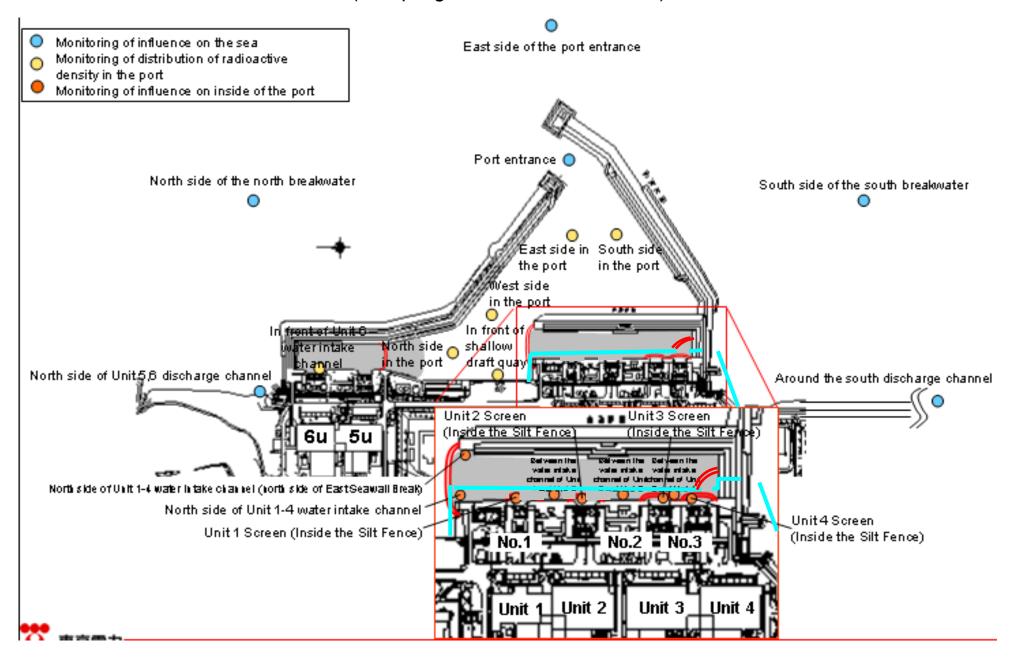
<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.

<sup>\*</sup> The results obtained on in the observation hole No.2-8 are for a reference, since the water was highly turbid. (γ and Gross β will be measured after filtration. If filtration takes a long time, γ will not be measured.)

<sup>\*1</sup> The highest measurement value (compared to the previous values provided in the handouts published in 'Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection')

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Seawater)



## Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/3) Seawater

Unit: Bq/L

|                          | 1F, North side of<br>Unit 5,6<br>discharge<br>channel | 1F, In front of<br>Unit 6 water<br>intake channel | 1F, In front of<br>shallow draft<br>quay | 1F, North side of<br>Unit 1-4 water<br>intake channel | 1F, North side of<br>Unit 1-4 water<br>intake channel<br>(north side of<br>East Seawall<br>Break) | 1F, Unit 1<br>Screen<br>(Inside the Silt<br>Fence) | water intake<br>channel of Unit 1 | 1F, Between the<br>water intake<br>channel of Unit 1<br>and Unit 2 (lower<br>layer) | Screen | 1F, Between the<br>water intake<br>channel of Unit 2<br>and Unit 3 | Screen | 1F, Between the<br>water intake<br>channel of Unit 3<br>and Unit 4 | Specified | WHO<br>Guideline<br>s for<br>drinking-<br>water<br>quality |
|--------------------------|---|---|--|---|---|--|-----------------------------------|---|--------|--|--------|--|-----------|--|
| Date of Sampling         |   | /   | /  |   |   | /  | /                                 |   | /      |  | /      | 1  |           |  |
| Time of sampling         |   |   |  | /   |   |  |                                   |   |        |  |        |  |           |  |
| Cs-134(Approx. 2 years)  |   | /   |  |   |   |  |                                   |   |        |  |        |  | 60        | 10   |
| Cs-137(Approx.30 years)  | /   |   |  |   |   |  |                                   |   |        |  |        |  | 90        | 10   |
| Gross β                  |   |   |  |   |   |  |                                   |   |        |  |        |  |           |  |
| H-3 (Approx. 12 years)   |   |   |  |   | /   |  |                                   |   |        |  |        |  | 60,000    | 10,000   |
| Sr-90 (Approx. 29 years) |   |   |  | /   | /   |  | /                                 | /   |        | /  | /      | /  | 30        | 10   |

|                          |  |  |          |                           |                           |                            |                            |                                    |   |                                |                                     |  | L  | Jnit: Bq/L   |
|--------------------------|--|--|----------|---------------------------|---------------------------|----------------------------|----------------------------|------------------------------------|---|--------------------------------|-------------------------------------|--|--|--|
|                          | 1F, Unit 4<br>Screen<br>(Inside the Silt<br>Fence) | 1F, Around the south discharge channel | I IF POR | 1F, East side in the port | 1F, West side in the port | 1F, North side in the port | 1F, South side in the port | North side of the north breakwater | Northeast side<br>of the port<br>entrance | East side of the port entrance | Southeast side of the port entrance | South side of the<br>south<br>breakwater | Density Limit Specified by the Reactor Regulatio n * | WHO<br>Guideline<br>s for<br>drinking-<br>water<br>quality |
| Date of Sampling         |  | /                                      | /        | /                         | /                         | /                          | /                          | Mar 4, 2014                        | Mar 4, 2014                               | Mar 4, 2014                    | Mar 4, 2014                         | Mar 4, 2014                              |  |  |
| Time of sampling         |  | /                                      | /        | /                         |                           |                            | /                          | 10:17 AM                           | 10:23 AM                                  | 10:30 AM                       | 10:36 AM                            | 10:42 AM                                 |  |  |
| Cs-134(Approx. 2 years)  |  |  | /        |                           |                           | /                          |                            | ND(0.81)                           | ND(0.92)                                  | ND(0.67)                       | ND(0.58)                            | ND(0.73)                                 | 60   | 10   |
| Cs-137(Approx.30 years)  |  | /                                      | /        | /                         | /                         |                            |                            | ND(0.76)                           | ND(0.59)                                  | ND(0.63)                       | ND(0.53)                            | ND(0.62)                                 | 90   | 10   |
| Gross β                  |  |  |          |                           |                           |                            |                            | ND(16)                             | ND(16)                                    | ND(16)                         | ND(16)                              | ND(16)                                   |  |  |
| H-3 (Approx. 12 years)   |  |  | /        |                           | /                         | /                          |                            | Under analysis                     | Under analysis                            | Under analysis                 | Under analysis                      | Under analysis                           | 60,000   | 10,000   |
| Sr-90 (Approx. 29 years) | /  | /                                      | /        | /                         | /                         | /                          | /                          | -                                  | -   | -                              | -                                   | -  | 30   | 10   |

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.

<sup>\*</sup> Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm to Bq/L]).

Groundwater

observation hole

No.0-2

Groundwater

observation hole

No.0-3-1

Groundwater

observation hole

No.0-1-2

Groundwater

observation hole

No.0-1-1

Groundwater

observation hole

No.0-1

|  | В |  |
|--|---|--|
|  |   |  |
|  |   |  |

Groundwater

observation hole

No.1-5

|         |  | *0  |  |   |                             |   |                     |                         |                   |   |                                |                             |                               |  |                             |  |                               |  |  |                                       |                             |   |   |                       |                            | $\overline{}$                                   |                                  |
|---------|--|---|--|---|-----------------------------|---|---------------------|-------------------------|-------------------|---|--------------------------------|-----------------------------|-------------------------------|--|-----------------------------|--|-------------------------------|--|--|---------------------------------------|-----------------------------|---|---|-----------------------|----------------------------|---|----------------------------------|
| С       | s-134 (Approx. 2 years)  | 8.0 *2  |  | 0.61  | <3/2>                       | ND                                      |                     | 0.61                    | [10/13]           | 0.44                                    | [11/24]                        | 0.82                        | <1/14>                        | ND   |                             | 13   | [8/29]                        | 1.9  | [7/8]  | 11,000                                | [7/9]                       | 10  | [9/2]   | 1.5                   | [7/8]                      | 310   | [8/5]                            |
| C       | s-137 (Approx.30 years)  | 20 *2   | <2/23>   | 1.5   | <3/2>                       | 0.51                                    | [11/17]             | 2.2                     | <1/12>            | 0.86                                    | [11/20]                        | 2.1                         | <1/14>                        | 1.4  | <1/12>                      | 31   | [8/29]                        | 3.6  | [7/8]  | 22,000                                | [7/9]                       | 24  | [9/2]   | 3.6                   | [7/8]                      | 650   | [8/5]                            |
|         | Ru-106 (Approx. 370 days)  | ND  |  | ND  |                             | ND                                      |                     | ND                      |                   | ND                                      |                                | ND                          |                               | ND   |                             | 26   | [5/24]                        | 7.9  | [7/8]  | 160                                   | [8/15]                      | 17  | (7/22)<br>(8/8)   | 3.1                   | [8/8]                      | ND  |                                  |
| The     | Mn-54 (Approx. 310 days)   | ND  |  | ND  |                             | ND                                      |                     | ND                      |                   | ND                                      |                                | 0.64                        | <2/20>                        | ND   |                             | ND   |                               | 1.0  | [7/5]  | 62                                    | [7/5]                       | ND  |   | ND                    |                            | ND  |                                  |
| other y | Co-60 (Approx. 5 years)  | ND  |  | ND  |                             | ND                                      |                     | ND                      |                   | ND                                      |                                | ND                          |                               | ND   |                             | 0.50   | [7/19]                        | ND   |  | 3.1                                   | [7/8]                       | ND  |   | ND                    |                            | ND  |                                  |
|         | Sb-125 (Approx. 3 years)   | ND  |  | ND  |                             | ND                                      |                     | ND                      |                   | ND                                      |                                | ND                          |                               | ND   |                             | 1.7  | [7/11]                        | ND   |  | 250                                   | [7/15]                      | 1.4   | (7/12)<br>(8/26)  | ND                    |                            | 12  | [8/8]                            |
|         | Gross β  | 300   | [8/22]   | 21  | [12/7]                      | 21                                      | [11/10]             | 87                      | [10/13]           | ND                                      |                                | 67 <sup>*1</sup>            | [12/11]                       | 29   | [12/29]                     | 1,900  | [5/24]                        | 4,400  | [7/8]  | 900,000                               | (7/5)<br>(7/9)              | 160,000   | (8/12)<br>(8/15)  | 380                   | [8/19]                     | 56,000  | [8/5]                            |
|         | H-3 (Approx. 12 years)   | 45,000  | [8/29]   | 18,000  | [12/7]                      | 74,000                                  | [12/15]<br><1/19>   | 6,800                   | <2/16>            | ND                                      |                                | 76,000                      | <2/6>                         | 56,000   | <2/23>                      | 500,000  | (5/24)<br>(6/7)               | 630,000  | [7/8]  | 430,000                               | [9/16]                      | 290,000   | [7/12]  | 98,000                | (7/11)                     | 72,000  | [8/15]                           |
| S       | r-90(Approx. 29 years)   | 140   | [8/8]  | Under<br>analysis                             |                             | Under<br>analysis                       |                     | 0.73                    | [9/2]             | Under<br>analysis                       |                                | Under<br>analysis           |                               | Under<br>analysis                                    |                             | 1,300  | [8/22]                        | 2,300  | [6/28]   | 5,000,000                             | [7/5]                       | 130,000   | [8/8]   | 200                   | [7/8]                      | 5,100   | [8/22]                           |
|         |  |   |  |   |                             |   |                     |                         |                   |   |                                |                             |                               |  |                             |  |                               |  |  |                                       |                             |   |   |                       |                            |   | Unit: Bg/L                       |
|         |  |   |  |   |                             |   |                     | 1                       |                   |   |                                |                             |                               | 1  |                             | 1  |                               |  |  |                                       |                             | 0   | d   |                       |                            |   | Onit. Dq.E                       |
|         |  | Ground<br>observati<br>No.1                             | on hole  | observa                                       | dwater<br>tion hole<br>.1-8 | Groun<br>observa<br>No                  |                     | Groun<br>observa<br>No. |                   | observa                                 | ndwater<br>ation hole<br>.1-11 | observa                     | dwater<br>tion hole<br>1-12   | observa  | dwater<br>tion hole<br>1-13 |  | tion hole<br>1-14             | Ground<br>observati<br>No.                           | tion hole  | Ground<br>observat<br>No.1            | tion hole                   | Ground<br>pumped<br>the we<br>(betwee                         | up from<br>Il point<br>n Unit 1                             | observa               | dwater<br>tion hole<br>5.2 | Ground<br>observat<br>No.2                      | dwater<br>tion hole              |
| С       | s-134 (Approx. 2 years)  | observati   | on hole  | observa                                       | tion hole                   | observa                                 | tion hole           | observa                 | tion hole         | observa                                 | ation hole                     | observa                     | tion hole                     | observa  | tion hole                   | observa<br>No.                                 | tion hole                     | observa<br>No.                                       | tion hole<br>1-16                                | observat                              | tion hole                   | pumped<br>the we<br>(betwee                                   | up from<br>Il point<br>n Unit 1                             | observa               | tion hole                  | Ground<br>observat                              | dwater<br>tion hole              |
|         | s-134 (Approx. 2 years)<br>-137 (Approx.30 years)                          | observati<br>No.1                                       | on hole<br>1-6   | observa<br>No                                 | tion hole<br>.1-8           | observa<br>No                           | tion hole<br>.1-9   | observa                 | tion hole         | observa<br>No                           | ation hole<br>.1-11            | observa<br>No.              | tion hole<br>1-12             | observa<br>No.                                       | tion hole<br>1-13           | observa<br>No.                                 | tion hole<br>1-14<br>2 <2/27> | observa<br>No.                                       | tion hole<br>1-16                                | observat<br>No.1                      | tion hole<br>1-17           | pumped<br>the we<br>(betwee<br>and                            | up from<br>Il point<br>n Unit 1<br>I 2)                     | observa<br>No         | tion hole<br>o.2           | Ground<br>observat<br>No.2                      | dwater<br>tion hole<br>2-1       |
|         | ****   | observati<br>No.1                                       | on hole<br>1-6<br><3/3>  | observa<br>No<br>47                           | (11/25)                     | observa<br>No<br>170                    | (9/3)               | observa<br>No.          | tion hole         | observa<br>No<br>1.1                    | ation hole<br>.1-11<br><1/13>  | observa<br>No.              | 1-12<br>(10/21)               | observa<br>No.<br>37,000                             | tion hole<br>1-13<br><2/13> | observa<br>No.:                                | tion hole<br>1-14<br>2 <2/27> | observa<br>No.                                       | (12/13)  | observat<br>No.1                      | (12/5)                      | pumped<br>the we<br>(betwee<br>and                            | up from<br>Il point<br>n Unit 1<br>1 2)                     | observa<br>No<br>0.88 | tion hole<br>0.2           | Ground<br>observat<br>No.2                      | dwater<br>tion hole<br>2-1 (9/1) |
|         | s-137 (Approx.30 years)  | observati<br>No.1<br>3,500<br>8,900                     | on hole<br>1-6<br><3/3>  | observa<br>No<br>47<br>110                    | (11/25)                     | observa<br>No<br>170<br>380             | (9/3)               | observa<br>No.          | tion hole         | observa<br>No<br>1.1<br>2.8             | ation hole<br>.1-11<br><1/13>  | observa<br>No.<br>74<br>170 | (10/21)                       | observa<br>No.<br>37,000<br>93,000                   | tion hole<br>1-13<br><2/13> | observa<br>No.<br>88 *2<br>230 *2              | tion hole<br>1-14<br>2 <2/27> | observar<br>No.<br>3.1 *1<br>4.7                     | (12/13)  | observat<br>No.1<br>1.2<br>1.0        | (12/5)                      | pumped<br>the we<br>(betwee<br>and<br>110                     | up from<br>Il point<br>n Unit 1<br>1 2)<br>(9/23)           | 0.88<br>2.5           | tion hole<br>0.2           | Ground<br>observat<br>No.2<br>0.66              | dwater<br>tion hole<br>2-1 (9/1) |
| C       | s-137 (Approx.30 years)<br>Ru-106 (Approx. 370 days)                       | observati<br>No.1<br>3,500<br>8,900<br>ND               | <pre><pre></pre></pre> <pre></pre> <pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><p< td=""><td>observa<br/>No<br/>47<br/>110<br/>ND</td><td>(11/25)</td><td>observa<br/>No<br/>170<br/>380<br/>ND</td><td>(9/3)</td><td>observa<br/>No.</td><td>tion hole</td><td>observa<br/>No<br/>1.1<br/>2.8<br/>ND</td><td>ation hole<br/>.1-11<br/>&lt;1/13&gt;</td><td>74<br/>170<br/>5.4</td><td>(10/21)</td><td>observa<br/>No.<br/>37,000<br/>93,000<br/>ND</td><td>tion hole<br/>1-13<br/>&lt;2/13&gt;</td><td>observa<br/>No.<br/>88 *2<br/>230 *2<br/>ND</td><td>tion hole<br/>1-14<br/>2 &lt;2/27&gt;</td><td>observar<br/>No.*<br/>3.1 *1<br/>4.7<br/>9.2</td><td>(12/13)</td><td>0bservat<br/>No.1<br/>1.2<br/>1.0<br/>4.1</td><td>(12/5)</td><td>pumped<br/>the we<br/>(betwee<br/>and<br/>110<br/>250<br/>25</td><td>up from<br/>Il point<br/>n Unit 1<br/>1 2)<br/>(9/23)<br/>(9/23)</td><td>0.88 2.5 ND</td><td>tion hole<br/>0.2</td><td>Ground<br/>observat<br/>No.2<br/>0.66<br/>1.1</td><td>dwater<br/>tion hole<br/>2-1 (9/1)</td></p<></pre> | observa<br>No<br>47<br>110<br>ND              | (11/25)                     | observa<br>No<br>170<br>380<br>ND       | (9/3)               | observa<br>No.          | tion hole         | observa<br>No<br>1.1<br>2.8<br>ND       | ation hole<br>.1-11<br><1/13>  | 74<br>170<br>5.4            | (10/21)                       | observa<br>No.<br>37,000<br>93,000<br>ND             | tion hole<br>1-13<br><2/13> | observa<br>No.<br>88 *2<br>230 *2<br>ND        | tion hole<br>1-14<br>2 <2/27> | observar<br>No.*<br>3.1 *1<br>4.7<br>9.2             | (12/13)  | 0bservat<br>No.1<br>1.2<br>1.0<br>4.1 | (12/5)                      | pumped<br>the we<br>(betwee<br>and<br>110<br>250<br>25        | up from<br>Il point<br>n Unit 1<br>1 2)<br>(9/23)<br>(9/23) | 0.88 2.5 ND           | tion hole<br>0.2           | Ground<br>observat<br>No.2<br>0.66<br>1.1       | dwater<br>tion hole<br>2-1 (9/1) |
| Cs      | Ru-106 (Approx. 370 days) Mn-54 (Approx. 310 days)                         | observati<br>No.1<br>3,500<br>8,900<br>ND<br>320        | <pre></pre> <pre>&lt;3/3&gt; &lt;3/3&gt; &lt;3/3&gt; &lt;2/13&gt; &lt;2/17&gt;</pre>   | observa<br>No<br>47<br>110<br>ND<br>12        | (11/25)<br>(11/25)<br>(2/3> | observa<br>No<br>170<br>380<br>ND       | (9/3)               | observa<br>No.          | tion hole         | observa<br>No<br>1.1<br>2.8<br>ND       | ation hole<br>.1-11<br><1/13>  | 74<br>170<br>5.4<br>ND      | (10/21)<br>(10/21)<br>(10/28) | 37,000<br>93,000<br>ND                               | tion hole<br>1-13<br><2/13> | observa<br>No.*<br>88 *2<br>230 *2<br>ND       | tion hole<br>1-14<br>2 <2/27> | observa<br>No.:<br>3.1 *1<br>4.7<br>9.2<br>ND        | (12/13)<br><2/17><br>(10/28)<br>(11/7)<br>(12/5) | 1.2<br>1.0<br>4.1<br>ND               | (12/5)<br><2/20><br>(12/12) | pumped<br>the we<br>(betwee<br>and<br>110<br>250<br>25<br>5.9 | up from<br>Il point<br>n Unit 1<br>1 2)<br>(9/23)<br>(9/23) | 0.88 2.5 ND ND        | tion hole<br>0.2           | Ground<br>observat<br>No.2<br>0.66<br>1.1<br>ND | dwater<br>tion hole<br>2-1 (9/1) |
| Cs      | Ru-106 (Approx. 370 days) Mn-54 (Approx. 310 days) Co-60 (Approx. 5 years) | observati<br>No.1<br>3,500<br>8,900<br>ND<br>320<br>830 | <pre></pre> <pre>&lt;3/3&gt; &lt;3/3&gt; &lt;3/3&gt; &lt;2/13&gt; &lt;2/17&gt;</pre>   | observa<br>No<br>47<br>110<br>ND<br>12<br>1.3 | (11/25)<br>(11/25)<br>(2/3> | observa<br>No<br>170<br>380<br>ND<br>ND | (9/3) (9/3) (11/17) | observa No.             | tion hole<br>1-10 | observa<br>No<br>1.1<br>2.8<br>ND<br>ND | ation hole<br>.1-11<br><1/13>  | 74<br>170<br>5.4<br>ND      | (10/21)<br>(10/21)<br>(10/28) | 0bserva<br>No.<br>37,000<br>93,000<br>ND<br>ND<br>ND | tion hole<br>1-13<br><2/13> | observa<br>No.:<br>88 *2<br>230 *2<br>ND<br>ND | tion hole<br>1-14<br>2 <2/27> | observa<br>No.:<br>3.1 *1<br>4.7<br>9.2<br>ND<br>0.9 | (12/13)<br><2/17><br>(10/28)                     | 1.2 1.0 4.1 ND 0.61                   | (12/5)<br><2/20><br>(12/12) | pumped the we (betwee and 110 250 25 5.9 ND                   | up from<br>Il point<br>n Unit 1<br>1 2)<br>(9/23)<br>(9/23) | 0.88 2.5 ND ND        | tion hole<br>0.2           | Ground observat No.2  0.66  1.1  ND  ND         | dwater<br>tion hole<br>2-1 (9/1) |

Groundwater

observation hole

No.0-3-2

Groundwater

observation hole

No.0-4

Groundwater

observation hole

No.1

Groundwater

observation hole

No.1-1

Groundwater

observation hole

No.1-2\*

Groundwater

observation hole

No.1-3

Groundwater

observation hole

No.1-4

[7/25] Unit: Bq/L

[5/31]

5.9

|         |                           | Ground<br>observati<br>No. | tion hole | observa           | idwater<br>ition hole<br>i.2-3 |                   | dwater<br>tion hole<br>2-5 | observa           | dwater<br>tion hole<br>.2-6 | observa           | idwater<br>ition hole<br>.2-7 | Ground<br>observati<br>No.2 | on hole | Ground<br>observat<br>No. | ion hole | pumped<br>the we<br>(between | dwater<br>up from<br>Il point<br>in Unit 2 | observa | ndwater<br>ation hole<br>lo.3 | observa | ndwater<br>ation hole<br>.3-1* | observa | ndwater<br>ation hole<br>0.3-4 | observa | dwater<br>tion hole<br>.3-5 |
|---------|---------------------------|----------------------------|-----------|-------------------|--------------------------------|-------------------|----------------------------|-------------------|-----------------------------|-------------------|-------------------------------|-----------------------------|---------|---------------------------|----------|------------------------------|--|---------|-------------------------------|---------|--------------------------------|---------|--------------------------------|---------|-----------------------------|
| C       | s-134 (Approx. 2 years)   | 15                         | <2/12>    | 2.2               | <2/26>                         | 25                | <2/12>                     | 5.0               | <2/25>                      | 3.5               | <2/23>                        | -                           |         | -                         |          | 1.1                          | [12/12]                                    | 3.5     | [7/25]                        | 1.2     | (7/25)<br>(8/8)                | 1.9     | <1/8>                          | 64      | <1/15>                      |
| С       | s-137 (Approx.30 years)   | 38                         | <2/12>    | 5.5               | <2/26>                         | 62                | <2/12>                     | 12                | <2/25>                      | 9.0               | <2/23>                        | -                           |         | 0.58 *2                   | <2/11>   | 2.6                          | <2/16>                                     | 5.9     | [8/8]                         | 2.6     | [8/1]                          | 4.5     | <2/19>                         | 170     | <1/15>                      |
|         | Ru-106 (Approx. 370 days) | ND                         |           | ND                |                                | ND                |                            | ND                |                             | ND                |                               | -                           |         | 6.5                       | <2/11>   | ND                           |  | ND      |                               | ND      |                                | ND      |                                | -       |                             |
| The     | Mn-54 (Approx. 310 days)  | ND                         |           | 0.29              | [12/6]                         | 0.94              | <1/8>                      | ND                |                             | ND                |                               | -                           |         | -                         |          | ND                           |  | ND      |                               | ND      |                                | 0.54    | [10/30]                        | -       |                             |
| other y | Co-60 (Approx. 5 years)   | ND                         |           | ND                |                                | ND                |                            | ND                |                             | ND                |                               | -                           |         | -                         |          | ND                           |  | ND      |                               | ND      |                                | ND      |                                | -       |                             |
|         | Sb-125 (Approx. 3 years)  | ND                         |           | ND                |                                | 30                | <2/12>                     | ND                |                             | ND                |                               | -                           |         | -                         |          | ND                           |  | 1.6     | <1/1>                         | ND      |                                | ND      |                                | -       |                             |
|         | Gross β                   | 540                        | <1/29>    | 1,500             | [12/6]                         | 150,000           | <2/12>                     | 3,200             | [12/5]                      | 500               | <2/26>                        | 1,500*2                     | <3/2>   | 1,700*2                   | <2/7>    | 240,000                      | [12/12]                                    | 1,400   | [7/11]                        | 180     | [8/1]                          | 17      | <2/12>                         | 69      | <1/29>                      |
|         | H-3 (Approx. 12 years)    | 660                        | <1/8>     | 1,700             | [12/6]                         | 6,300             | [12/4]                     | 1,200             | [11/24]<br>[11/27]          | 1,100             | <1/17>                        | *2<br>600                   | <2/26>  | *2<br>13,000              | <2/7>    | 5,100                        | [12/6]                                     | 3,200   | (2012/12/<br>12)              | 460     | [8/1]                          | 170     | [9/18]                         | 170     | <1/8>                       |
|         | Gr-90(Approx. 29 years)   | Under<br>analysis          |           | Under<br>analysis |                                | Under<br>analysis |                            | Under<br>analysis |                             | Under<br>analysis |                               | -                           |         | -                         |          | -                            |  | 8.3     | [2012/12/<br>12]              | 4.4     | [7/23]                         | ND      |                                | -       |                             |

Under

[9/13]

Under

analysis

Under

analysis

Under

analysis

Under

analysis

1,300

[9/16]

170

[9/3]

Sr-90(Approx. 29 years)

<sup>•</sup> Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

<sup>\*1</sup> Analysis result of pumped water.

<sup>\*2</sup> The results are for a reference, since the water was highly turbid. (γ and Gross β were measured after filtration.)

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit.

<sup>\*</sup> Date of sampling is provided in parentheses. ( ): 2013, <>: 2014
\* "\*" is provided next to the name of the holes where the sampling could not be performed due to the chemical injection of ground improvement.

## <Reference> The Highest Dose Until the Previous Measurement\* (Seawater)

Unit: Bq/L

|                          |     | side of Unit 5,6<br>rge channel |     | ont of Unit 6<br>ake channel |     | t of shallow<br>quay |       | de of Unit 1-4<br>ke channel | water into | ide of Unit 1-4<br>ake channel<br>ide of East<br>all Break) | 1F, Uni | t 1 Screen<br>e Silt Fence) | intake char | en the water<br>inel of Unit 1<br>surface layer | intake cha |         |       | 2 Screen<br>e Silt Fence) | intake char | en the water<br>nnel of Unit 2<br>Unit 3 |       | 3 Screen<br>e Silt Fence) | intake cha | en the water<br>nnel of Unit 3<br>Unit 4 |
|--------------------------|-----|---------------------------------|-----|------------------------------|-----|----------------------|-------|------------------------------|------------|---|---------|-----------------------------|-------------|---|------------|---------|-------|---------------------------|-------------|--|-------|---------------------------|------------|--|
| Cs-134(Approx. 2 years)  | 1.8 | [6/21]                          | 2.8 | [12/2]                       | 5.3 | [8/5]                | 89    | [10/10]                      | 32         | [10/11]   | 73      | [10/10]                     | 87          | [10/10]   | 93         | [10/10] | 370   | [10/9]                    | 52          | [12/21]                                  | 350   | (7/15)                    | 28         | [9/16]                                   |
| Cs-137(Approx.30 years)  | 3.3 | [6/26]                          | 5.8 | [12/2]                       | 8.6 | [8/5]                | 190   | (10/10)                      | 73         | [10/11]   | 170     | [10/10]                     | 200         | [10/10]   | 200        | [10/10] | 830   | [10/9]                    | 110         | (10/11)<br>(12/21)                       | 770   | (7/15)                    | 53         | [12/16]                                  |
| Gross β                  | 17  | <1/6>                           | 46  | [8/19]                       | 40  | [7/3]                | 1,400 | [11/7]                       | 320        | (8/12)  | 740     | [10/28]                     | 1,200       | [12/8]  | 450        | [7/16]  | 1,700 | [10/9]                    | 480         | [10/7]                                   | 1,000 | (7/15)                    | 390        | [8/12]                                   |
| H-3 (Approx. 12 years)   | 8.6 | [6/26]                          | 24  | [8/19]                       | 340 | [6/26]               | 4,800 | [11/7]                       | 510        | [9/2]   | 2,800   | [10/28]                     | 2,800       | [12/8]  | 1,600      | [9/1]   | 2,100 | [10/28]                   | 1,200       | [10/7]                                   | 410   | [9/2]                     | 650        | [8/12]                                   |
| Sr-90 (Approx. 29 years) | 5.8 | *1<br>[6/26]                    | -   |                              | 7.4 | (6/26)               | 720   | [9/22]                       | 220        | (8/19)  | 480     | [10/14]                     | 480         | [8/22]  | 290        | [10/20] | 430   | [10/14]                   | 340         | [10/14]                                  | 120   | [9/23]                    | 190        | [9/23]                                   |

Unit: Bq/L

|                          |     | 4 Screen<br>e Silt Fence) |      | nd the south<br>ge channel | 1F, Por | rt entrance | 1F, East s | ide in the port | 1F, West s | ide in the port | 1F, North s | side in the por | 1F, South s | ide in the por | North side of the north<br>breakwater | Northeast side of the port entrance | East side of the south breakwater | Southeast side of the north breakwater | South side of the south breakwater |
|--------------------------|-----|---------------------------|------|----------------------------|---------|-------------|------------|-----------------|------------|-----------------|-------------|-----------------|-------------|----------------|---------------------------------------|-------------------------------------|-----------------------------------|--|------------------------------------|
| Cs-134(Approx. 2 years)  | 62  | (9/16)                    | ND   |                            | 3.3     | [12/24]     | 3.3        | [10/17]         | 4.4        | [12/24]         | 5.0         | [12/2]          | 3.5         | [10/17]        | ND                                    | ND                                  | ND                                | ND                                     | ND                                 |
| Cs-137(Approx.30 years)  | 140 | [9/16]                    | 3.0  | [7/15]                     | 7.3     | [10/11]     | 9.0        | [10/17]         | 10         | [12/24]         | 8.4         | [12/2]          | 7.8         | [10/17]        | ND                                    | ND                                  | 1.6 (10/18)                       | ND                                     | ND                                 |
| Gross β                  | 360 | [10/7]                    | 15   | <1/13>                     | 69      | [8/19]      | 74         | (8/19)          | 60         | (7/4)           | 69          | [8/19]          | 79          | [8/19]         | ND                                    | ND                                  | ND                                | ND                                     | ND                                 |
| H-3 (Approx. 12 years)   | 400 | (8/12)<br>(10/7)          | 1.9  | [11/25]                    | 68      | [8/19]      | 67         | (8/19)          | 59         | [8/19]          | 52          | [8/19]          | 60          | [8/19]         | 4.7 [8/14]                            | ND                                  | 6.4 [10/8]                        | ND                                     | ND                                 |
| Sr-90 (Approx. 29 years) | 130 | [9/23]                    | 0.36 | *1<br>[6/26]               | 49      | [8/19]      | -          |                 | -          |                 | -           |                 | -           |                | ÷                                     | -                                   | -                                 | -                                      | -                                  |

<sup>\*</sup> The highest result announced in "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection" or the other handouts is provided.

As for "1F, North side of Unit 1-4 water intake channel", the data is obtained since January 14, 2013. For the other locations, the data is obtained since June 14.

[Reference] Standard values

Unit: Bq/L

|   | Cs-134 | Cs-137 | H-3    | Sr-90 |
|---|--------|--------|--------|-------|
| Density Limit Specified by the Rule for the Installation,<br>Operation, etc. of Commercial Nuclear Power Reactors (the<br>density limit in the water outside the surrounding monitored<br>areas is provided in section 6 of Appendix 2) | 60     | 90     | 60,000 | 30    |
| WHO Guidelines for drinking-water quality   | 10     | 10     | 10,000 | 10    |

<sup>•</sup> Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

<sup>\*1</sup> Since reanalysis is ongoing, the figures are just for a reference.

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit.

<sup>\*</sup> Date of sampling is provided in parentheses. ( ): 2013, <>: 2014

<sup>\* &</sup>quot;-" indicates that the measurement was out of range.