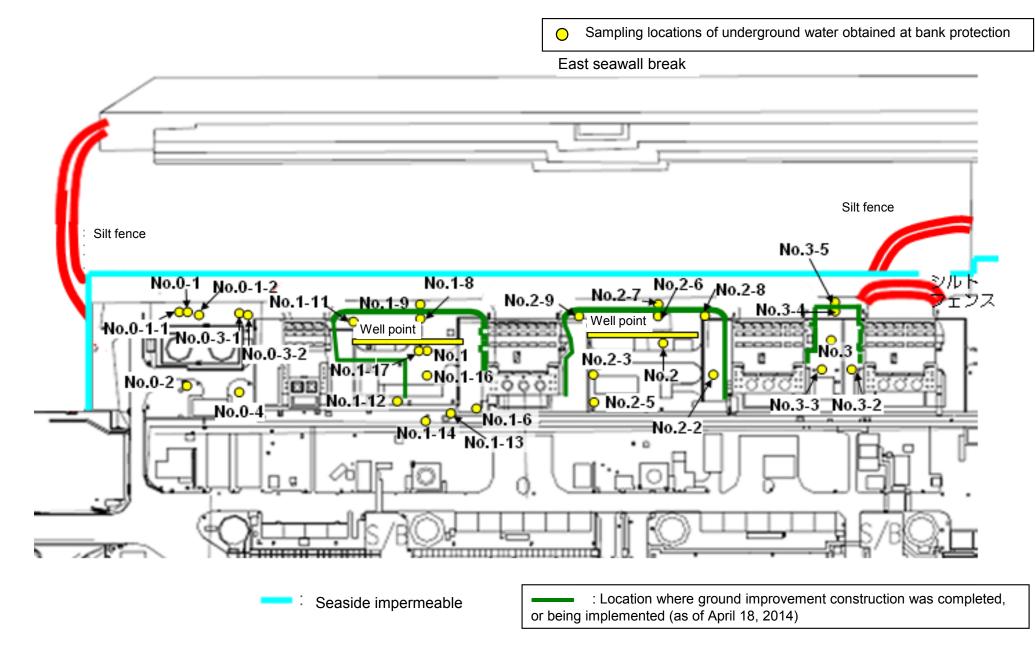
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/2) Underground Water Obtained at Bank Protection

| | | | | | | | | | | | | | | | Unit: Bq/ | L (exclude chloride) |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| | | Underground water observation hole No.0-1 | Underground water observation hole No.0-1-2 | Underground water observation hole No.0-2 | Underground water observation hole No.0-3-1 | Underground water observation hole No.0-3-2 | Underground water observation hole No.0-4 | Underground water observation hole No.1 | Underground water observation hole No.1-6 | Underground water observation hole No.1-8 | Underground water observation hole No.1-9 | Underground water observation hole No.1-11 | Underground water observation hole No.1-12 | Underground water observation hole No.1-14 | Underground water observation hole No.1-16 | Underground water observation hole No.1-17 |
| | Date of sampling | / | | / | / | / | / | / / | / | 1 / | Jul 17, 2014 | | | / / | / | / |
| Time of sampling Chloride (unit: ppm) Cs-134 (Approx. 2 years) | | | / | / | / | / | / | / | / | / | 7:26 AM | / | / | / | / | / |
| | | | | / | / | / | / | / | | / | 27 | | | | / | |
| | | | / | / | | / | | / | / | | 1.1 | / | | | | |
| Cs | s-137 (Approx.30 years) | | | / | / | / | / | / | / | / | 2.9 | / | | | / | / |
| | | | | / | / | / | / | | / | | | / | | | / | / |
| The | | | | / | / | | | / | / | / | | | | | / | / |
| other $\boldsymbol{\gamma}$ | | | | | / | / | | | / | | | / | | | | / |
| | | | | | / | | | | | | | / | | | | / |
| | Gross β | | | / | | | | | | | ND(17) | | | | / | |
| ŀ | H-3 (Approx. 12 years) | 1/ | / | / | / | / | / | / | / | / | ND(100) | / | 1/ | / | / | / |
| Sr | r-90 (Approx. 29 years) | / | / | / | V | V | / | / | V | / | - | V | V | / | / | V |

| | | Groundwater pumped up from the well point (between Unit 1 and 2) | Underground water observation hole No.2 | Underground water observation hole No.2-2* | Underground water observation hole No.2-3 | Underground water observation hole No.2-5 | Underground water observation hole No.2-6 | Underground water observation hole No.2-7 | Underground water observation hole No.2-8 | Groundwater pumped up from the well point (between Unit 2 and 3) | Underground water observation hole No.3 | Underground water observation hole No.3-2 | Underground water observation hole No.3-3 | Underground water observation hole No.3-4 | Underground water observation hole No.3-5 |
|---------|--------------------------|--|---|--|---|---|---|---|---|--|---|---|---|---|---|
| | Date of sampling | / | Jul 16, 2014 | Jul 16, 2014 | Jul 16, 2014 | / | Jul 17, 2014 | Jul 18, 2014 | Jul 16, 2014 | Jul 16, 2014 | Jul 16, 2014 | Jul 16, 2014 | Jul 16, 2014 | Jul 16, 2014 | Jul 16, 2014 |
| | Time of sampling | / | 9:58 AM | 11:37 AM | 9:31 AM | / | 9:34 AM | 9:59 AM | 10:44 AM | 10:05 AM | 10:49 AM | 12:09 PM | 12:35 PM | 11:17 AM | 11:18 AM |
| | Chloride (unit: ppm) | / | - | - | - | / | - | 1,000 | - | - | - | - | - | - | 980 |
| C | Cs-134 (Approx. 2 years) | / | ND(0.38) | 8.5 | 0.35 | / | ND(0.36) | 1.0 | ND(0.39) | ND(0.68) | 0.56 | 17 | 150 | 3.2 | 86 |
| С | s-137 (Approx.30 years) | / | 0.58 | 22 | 0.51 | / | ND(0.56) | 1.8 | 0.52 | 1.7 | 1.4 | 52 | 420 | 9.5 | 250 |
| | | / | | | | / | | | | | | | | | |
| The | | / | | | | | | | | | | | | | |
| other y | | / | | | | / | | | | | | | | | |
| | | | | | | / | | | | | | | | | |
| | Gross β | / | 180 | 380 | 800 | | 2,200 | 870 | 5,300 | 100,000 | ND(18) | 2,800 | 8,700 | 21 | 510 |
| | H-3 (Approx. 12 years) | / | 750 | 450 | 840 | / | 970 | 700 | 1,400 | 7,100 ^{*1} | 170 | 3,500 | 3,900 | ND(110) | 120 |
| S | r-90 (Approx. 29 years) | / | - | - | - | / | - | - | - | - | - | - | - | - | - |

* Data announced this time is provided in a thick-frame. The other data was announced on June 17, 18, and 19.

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

* "-" indicates that the measurement was out of range.

* The results obtained in the observation hole No.2-2 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.)

*1 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 (2/2) Underground Water Obtained at Bank Protection

| | | | | | | | | | | | | | | | Unit: Bq/ | L (exclude chloride) |
|--------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| | | Underground water observation hole No.0-1 | Underground water observation hole No.0-1-2 | Underground water observation hole No.0-2 | Underground water observation hole No.0-3-1 | Underground water observation hole No.0-3-2 | Underground water observation hole No.0-4 | Underground water observation hole No.1 | Underground water observation hole No.1-6 | Underground water observation hole No.1-8 | Underground water observation hole No.1-9 | Underground water observation hole No.1-11 | Underground water observation hole No.1-12 | Underground water observation hole No.1-14 | Underground water observation hole No.1-16 | Underground water observation hole No.1-17 |
| | Date of sampling | Jul 20, 2014 | 41,840 | Jul 20, 2014 | Jul 20, 2014 | / | Jul 20, 2014 | / | / | | Jul 20, 2014 | | / | / / | / | / |
| Time of sampling | | 12:17 PM | 11:29 AM | 10:53 AM | 11:12 AM | / | 9:53 AM | / | / | / | 6:20 AM | / | / | / | / | / |
| | Chloride (unit: ppm) | - | - | - | - | / | - | | / | | 26 | / | | | / | / |
| Cs-134 (Approx. 2 years) | | 19 | ND(0.43) | ND(0.40) | ND(0.42) | / | ND(0.35) | | / | | 0.99 | / | | | / | / |
| С | s-137 (Approx.30 years) | 51 | ND(0.55) | ND(0.49) | ND(0.57) | / | ND(0.50) | / | / | | 2.5 | / | | / | | / |
| | | | | | | / | | / | / | | | / | | | / | / |
| The | | | | | | | | / | / | | | | | | / | / |
| other y | | | | | | / | | / | | | | | | | | |
| | | | | | | | | | | | | / | | | | / |
| | Gross β | 170 | ND(18) | ND(18) | ND(18) | | ND(18) | | | 1/ | 50 | | | | | |
| | H-3 (Approx. 12 years) | Under analysis | Under analysis | Under analysis | Under analysis | 7 | Under analysis | / | / | / | Under analysis | / | 1/ | / | / | / |
| S | r-90 (Approx. 29 years) | - | - | - | - | / | - | V | V | / | - | V | V | / | V | Ý |

| | | Groundwater pumped up from the well point (between Unit 1 and 2) | Underground water observation hole No.2 | ervation water observation water observation water observation water of | | Underground water observation hole No.2-6 | Underground water observation hole No.2-7 | Underground water observation hole No.2-8 | Groundwater pumped up from the well point (between Unit 2 and 3) | Underground water observation hole No.3 | Underground water observation hole No.3-2 | Underground water observation hole No.3-3 | Underground water observation hole No.3-4 | Underground water observation hole No.3-5 | |
|------------------|--------------------------|--|---|---|----------------|---|---|---|--|---|---|---|---|---|---|
| Date of sampling | | / | Jul 20, 2014 | Jul 20, 2014 | Jul 20, 2014 | | / | Jul 20, 2014 | Jul 20, 2014 | Jul 20, 2014 | / | / | / | / | / |
| | Time of sampling | / 10:12 AM | | 11:16 AM | 9:35 AM | / | / | 10:35 AM | 10:55 AM | 10:00 AM | / | / | / | / | / |
| | Chloride (unit: ppm) | / | - | - | - | / | / | 850 | - | - | / | / | / | / | |
| С | Cs-134 (Approx. 2 years) | / | 0.66 | 8.0 | ND(0.39) | / | / | 0.79 | 1.3 ^{*1} | ND(0.75) | / | / | / | / | / |
| С | s-137 (Approx.30 years) | / | 2.1 | 21 | ND(0.61) | / | / | 1.3 | 3.4 ^{*1} | 1.6 | / | / | / | / | / |
| | | / | | | | / | / | | | | | / | / | | / |
| The | | / | | | | / | / | | | | | / | / | / | / |
| other y | 7 | / | | | | / | / | | | | | / | / | / | |
| | | | | | | / | / | | | | | | | / | |
| | Gross β | / | 160 | 390 | 860 | / | / | 980 | 5,200 | 120,000 | / | / | / | / | |
| | H-3 (Approx. 12 years) | / | Under analysis | Under analysis | Under analysis | / | / | Under analysis | Under analysis | Under analysis | / | / | / | / | / |
| S | sr-90 (Approx. 29 years) | / | - | - | - | / | / | - | - | - | / | / | V | / | / |

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

* "-" indicates that the measurement was out of range.

*1 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')

<Reference> The Highest Dose Until the Previous Measurement (Groundwater Obtained at Bank Protection)

| | | observa | ndwater ation hole 0.0-1 | | dwater tion hole 0-1-1 | observa | dwater tion hole)-1-2 | observa | dwater tion hole .0-2 | observa | ndwater ation hole 0-3-1 | | dwater tion hole)-3-2 | observa | dwater tion hole .0-4 | observa | idwater ition hole o.1 | observa | dwater tion hole .1-1* | observa | idwater ition hole .1-2* | | dwater tion hole 1-3 | observa | dwater tion hole 1-4 [*] | observa | idwater ition hole .1-5 [*] | Grour observa | Unit: Bq/ idwater ition hole | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---------------------------|---|--------------------------------|-------------------------------|------------------------------|--------------------------------|------------------------------|---|-----------------------------|---|---|---|------------------------------|---|-----------------------------|---|------------------------------|---------------------------------------|------------------------------|------------------|--------------------------------|------------------|-----------------------------|---------|---|-------------|--|------------------|------------------------------------|---------|--------------------------------|--|-----------------------------|--|-----------------------------|---------|-------------------------------|---------|-----------------------------|---------|-------------------------------|-----------------------------|---|--|----------------------------|--|--|---------|-------------------------------|
| С | s-134 (Approx. 2 years) | 29 | <5/25> | ND | | 0.61 | <3/2> | 0.61 | [10/13] | 0.64 | <4/6> | 0.82 | <1/14> | 0.70 | <6/29> | 13 | [8/29] | 1.9 | [7/8] | 11,000 | [7/9] | 10 | [9/2] | 1.5 | [7/8] | 310 | [8/5] | 8,800 | <7/3> | | | | | | | | | | | | | | | | | | | | |
| | s-137 (Approx.30 years) | 78 | <5/25> | ND | | 1.5 | <3/2> | 2.2 | <1/12> | 1.1 | <4/6> | 2.1 | <1/14> | 1.6 | <6/29> | 31 | [8/29] | 3.6 | [7/8] | 22,000 | [7/9] | 24 | [9/2] | 3.6 | [7/8] | 650 | [8/5] | 24,000 | <7/3> | | | | | | | | | | | | | | | | | | | | |
| | 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] [8/8] | 3.1 | [8/8] | ND | | 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 | [0/0] | ND | | ND | | 320 | <2/13> <2/17> | | | | | | | | | | | | | | | | | | | | |
| 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 | | 830 | <2/20> | | | | | | | | | | | | | | | | | | | | |
| | Sb-125 (Approx. 3 years) | ND | | ND | | ND | | ND | | ND | | ND | | ND | | 1.7 | [7/11] | ND | | 250 | [7/15] | 1.4 | [7/12] [8/26] | ND | | 12 | [8/8] | 34 | <5/19> | | | | | | | | | | | | | | | | | | | | |
| | Gross β | 300 | [8/29] <5/18> | 21 | [12/7] | 24 | <6/22> | 87 | [10/13] | ND | | 67 ^{*1} | [12/11] | 44 | <6/22> | 1,900 | [5/24] | 4,400 | [7/8] | 9,300,000 | [7/8] | 160,000 | [8/12] [8/15] | 380 | [8/19] | 56,000 | [8/5] | 1,100,000 | <7/10> | | | | | | | | | | | | | | | | | | | | |
| ł | H-3 (Approx. 12 years) | 45,000 | [8/29] | 18,000 | [12/7] | 74,000 | [12/15] <1/19> | 6,800 | <2/16> | ND | | 76,000 | <2/6> | 56,000 | <2/23> | 500,000 | [5/24] [6/7] | 630,000 | [7/8] | 430,000 | [9/16] | 290,000 | [7/12] | 98,000 | [7/11] | 72,000 | [8/15] | *2 110,000 | <2/6> | | | | | | | | | | | | | | | | | | | | |
| S | Sr-90(Approx. 29 years) | 140 | [8/8] | 7.9 | [12/7] | 2.6 | [11/10] | 0.73 | [9/2] | 1.5 | [11/20] | 2.3 | [12/6] | ND(0.83) | [10/27] | 1,300 | [8/22] | 2,300 | [6/28] | 5,000,000 | [7/5] | 130,000 | [8/8] | 200 | [7/8] | 5,100 | [8/22] | - | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | r | | | | 1 | | | | | | r | | | | | | - | | | | | | | Unit: Bq/ | | | | | | | | | | | | | | | | | | | | |
| | | Groundwater observation hole No.1-8 | | observation hole | | observation hole | | observation hole | | observation hole | | observation hole | | observation hole | | observation hole | | observation hole | | observation hole | | observation hole | | observa | dwater tion hole .1-9 | observa | dwater tion hole 1-10 | | dwater tion hole 1-11 | observa | ndwater ation hole .1-12 | | dwater tion hole 1-13 | | dwater tion hole 1-14 | observa | idwater ition hole 1-15 | observa | dwater tion hole 1-16 | observa | idwater ition hole 1-17 | pumped the we (betwee | dwater l up from ell point en Unit 1 d 2) | | dwater tion hole p.2 | | idwater ition hole .2-1 [*] | observa | idwater ition hole .2-2 |
| С | cs-134 (Approx. 2 years) | 47 | [11/25] | 170 | [9/3] | - | | 1.1 | <1/13> | 74 | [10/21] | 37,000 | <2/13> | 88 *2 | 2 <2/27> | ND *1 | | 3.1 | [12/13] | 1.4 | <7/7> | 110.00 | [9/23] | 0.88 | <2/26> | 0.66 | [9/1] | 15 | <2/12> | | | | | | | | | | | | | | | | | | | | |
| C | s-137 (Approx.30 years) | 110 | [11/25] | 380 | [9/3] | - | | 3.4 | <4/28> | 170 | [10/21] | 93,000 | <2/13> | 230 *2 | 2 <2/27> | 0.88 | <7/10> | 6.5 | <6/26> | 2.8 | <4/28> | 250 | [9/23] | 2.5 | <2/26> | 1.1 | [8/29] [9/1] | 38 | <2/12> | | | | | | | | | | | | | | | | | | | | |
| | Ru-106 (Approx. 370 days) | ND | | ND | | - | | ND | | 5.4 | [10/28] | ND | | ND | | ND | | 9.2 | [10/28] | 5.5 | <4/21> <5/1> | 25 | [9/2] | ND | | ND | | ND | | | | | | | | | | | | | | | | | | | | | |
| The | Mn-54 (Approx. 310 days) | 12 | <2/3> | ND | | - | | ND | | ND | | ND | | 0.65 | <7/3> <7/14> | ND | | ND | | ND | | 8.5 | <4/28> | ND | | ND | | ND | | | | | | | | | | | | | | | | | | | | | |
| other y | Co-60 (Approx. 5 years) | 1.3 | <2/3> | ND | | - | | ND | | 0.51 | [10/24] | ND | | 0.44 | <5/29> | ND | | 0.9 | [11/7] | 0.61 | [11/25] | 0.61 | <6/9> | ND | | ND | | ND | | | | | | | | | | | | | | | | | | | | | |
| | Sb-125 (Approx. 3 years) | ND | | ND | | - | | ND | | 61 | [10/21] | ND | | ND | | ND | | 24 | <6/16> | 2.1 | [11/25] | ND | | ND | | ND | | ND | | | | | | | | | | | | | | | | | | | | | |
| | Gross β | 59,000 | <2/3> | 2,100 *2 | [11/17] | 78 *2 | <1/27> | 2,300 | [12/26] | 1,100 | <5/5> | 260,000 | <2/12> <2/13> | 9,300 | <7/14> | 110 | <7/10> | 3,100,000 | <1/20> <1/30> <2/3> | 99,000 | <6/30> | 1,900,000 | [9/23] | 1,700 | [7/8] | 380 | [7/29] | 600 | <4/16> | | | | | | | | | | | | | | | | | | | | |
| ł | H-3 (Approx. 12 years) | 33,000 | <6/2> | 860 *2 | [11/14] | 270,000 | <1/27> | 85,000 | [9/13] | 440,000 | [10/31] | 88,000 | <2/12> | 23,000 | <2/13> | 74,000 | <7/10> | 43,000 | [9/26] | 32,000 | <1/20> | 460,000 | [8/19] | 1,000 | <2/23> | 440 | [8/26] | 660 | <1/8> | | | | | | | | | | | | | | | | | | | | |
| S | Sr-90(Approx. 29 years) | 20,000 | [12/9] | 300 | [10/3] | - | | 18 | [10/21] | 290 | [10/21] | Under analysis | | 98 | [12/9] | Under analysis | | 1,400,000 | [12/9] | 9.5 | [12/9] | - | | 54 | [5/31] | 5.9 | [7/25] | 320 | [12/25] | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Unit: Bq/L | | | | | | | | | | | | | | | | | | | | | | |
| | | Groundwater observation hole No.2-3 | | servation hole observation ho | | ervation hole observation hole | | Groundwater observation hole No.2-7 | | Groundwater observation hole No.2-8 | | Groundwater observation hole No.2-9 | | Groundwater pumped up fro the well point (between Unit and 3) | | Groundwater observation hole No.3 | | Groundwate observation h No.3-1 | | observa | idwater ition hole .3-2 | observa | dwater tion hole .3-3 | observa | ndwater ation hole o.3-4 | Groundwater | | | | | | | | | | | | | | | | | | | | | | | |
| С | cs-134 (Approx. 2 years) | 2.2 | <2/26> | 41 | <5/7> | 17 | <3/11> | 3.5 | <2/23> | 0.47 | <4/9> | ND | | 2.0 | <4/23> | 3.5 | [7/25] | 1.2 | [7/25] [8/8] | 18 | <7/2> <7/9> | 180 | <7/2> | 3.9 | <6/18> <7/9> | 86 | <7/16> | | | | | | | | | | | | | | | | | | | | | | |
| C | s-137 (Approx.30 years) | 5.5 | <2/26> | 110 | <5/7> | 50 | <3/11> | 9.0 | <2/23> | 1.3 * | 2 <4/9> | 0.58 | <2/11> | 4.7 | <4/23> | 5.9 | [8/8] | 2.6 | [8/1] | 54 | <7/9> | 500 | <7/2> | 12 | <6/11> | 250 | <7/16> | | | | | | | | | | | | | | | | | | | | | | |
| | Ru-106 (Approx. 370 days) | ND | | ND | | ND | | ND | | ND ^{*2} | 2 | 6.5 | <2/11> | ND | | ND | | ND | | ND | | ND | | ND | | - | | | | | | | | | | | | | | | | | | | | | | | |
| The | Mn-54 (Approx. 310 days) | 0.29 | [12/6] | 0.95 | <6/4> | ND | | ND | | ND | | ND | | 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 | | ND | | ND | | ND | | - | | | | | | | | | | | | | | | | | | | | | | | |
| | Sb-125 (Approx. 3 years) | ND | | 74 | <5/7> | ND | | ND | | ND | <7/2> | ND | | ND | | 1.6 | <1/1> | ND | | ND | ~E/005 | ND | | ND | | - | | | | | | | | | | | | | | | | | | | | | | | |
| | Gross β | 1,500 | [12/6] <1/8> | 150,000 | <2/12> | 3,200 | [12/5] | 1,300 | <6/20> | *2 5,300 | <pre><!--/2--> <7/6> <7/16></pre> | 1,700 | <2/7> | 240,000 | [12/12] | 1,400 | [7/11] | *2 180 | [8/1] | 2,800 | <5/28> <7/2> <7/16> | 8900 | <7/2> | 33 | <6/11> <7/9> | 510 | <7/16> | | | | | | | | | | | | | | | | | | | | | | |
| ł | H-3 (Approx. 12 years) | 1,700 | [12/6] | 7,900 | <4/9> | 1,200 | [11/24] [11/27] | 1,100 | <1/19> | 1,700*2 | 2 <4/6> <6/8> | 13,000 | <2/7> <2/11> | 6,800 | <7/2> <7/9> | 3,200 | [2012 12/12] | 460 | [8/1] | 3,700 | <7/9> | 8,000 | <5/7> | 170 | [9/18] | 170 | <1/8> | | | | | | | | | | | | | | | | | | | | | | |
| Sr-90(Approx. 29 years) | | | | Under | | Under | | | | Under | | Under | | | | 8.3 | [2012 | | | Under | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.
 *1 Analysis result of pumped water.
 *2 The results are for a reference, since the water was highly turbid. (γ and Gross β were measured after filtration.)

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

* 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.