

<Reference>

# Condition of Radioactive Density of the Groundwater and the Seawater at the East Side of Turbine Buildings

September 13, 2013

Tokyo Electric Power Company

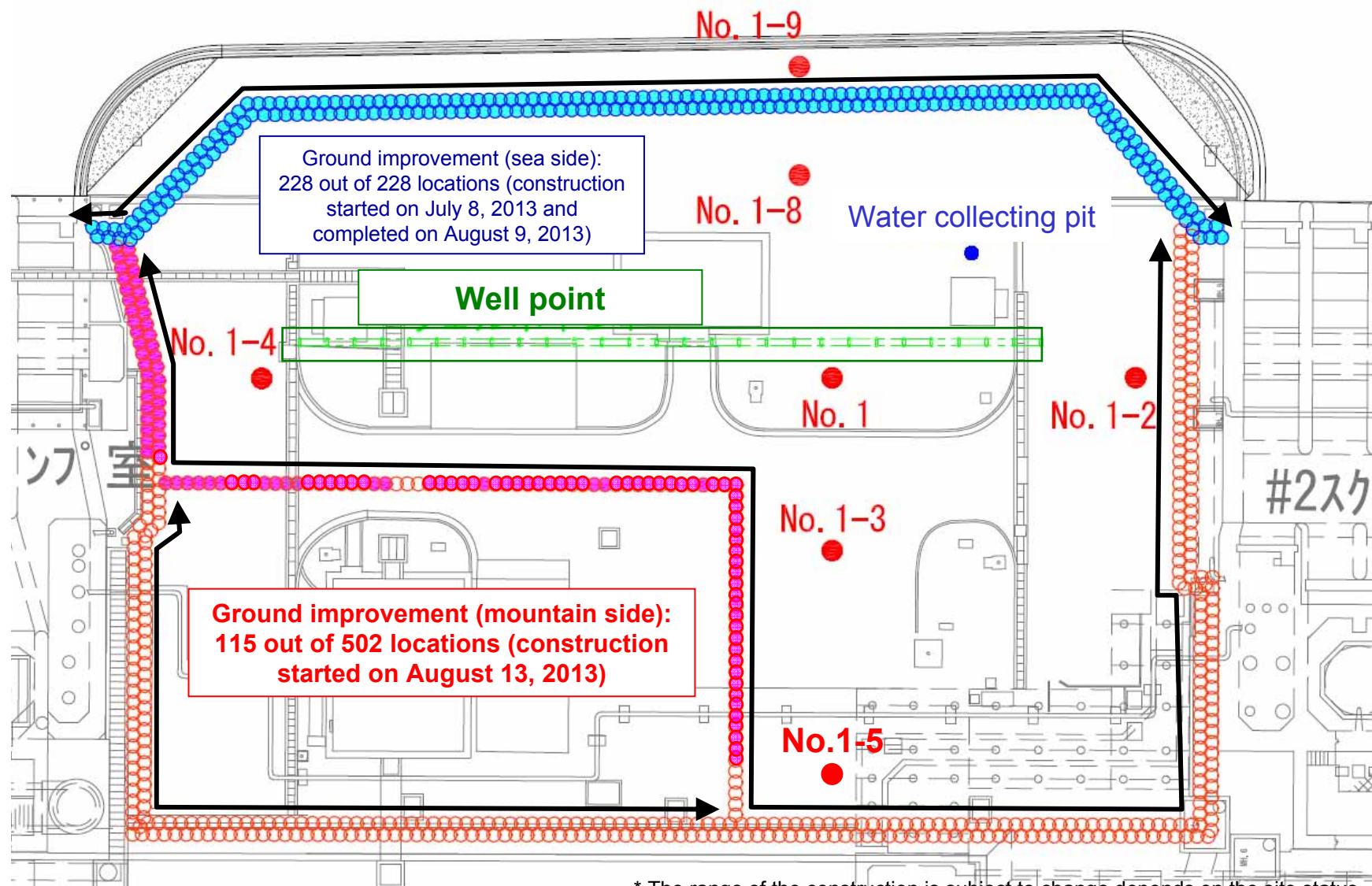


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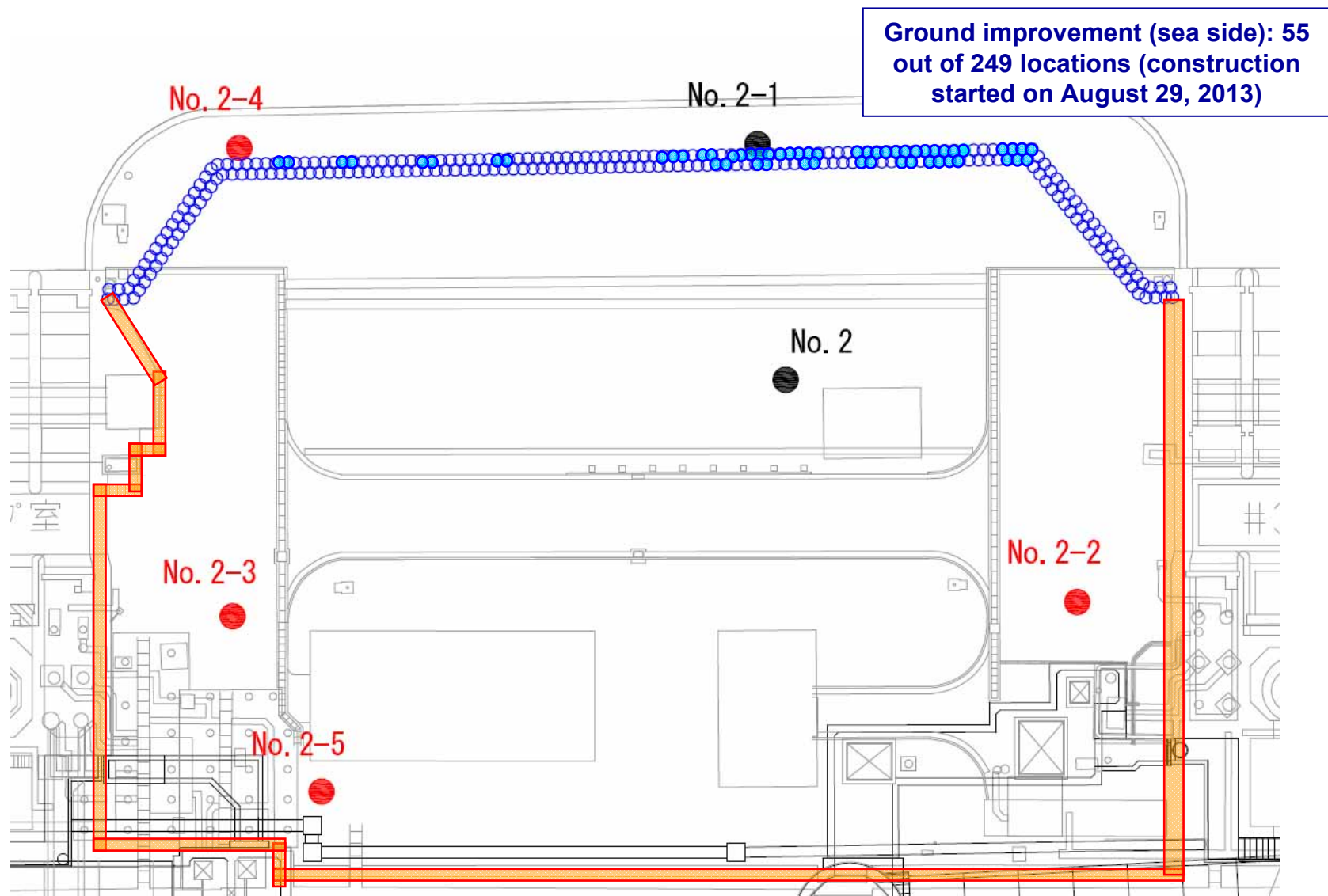
TEPCO

# Progress Status of Ground Improvement Construction between Unit 1 and 2 (As of the Morning on September 13)



\* The range of the construction is subject to change depends on the site status.

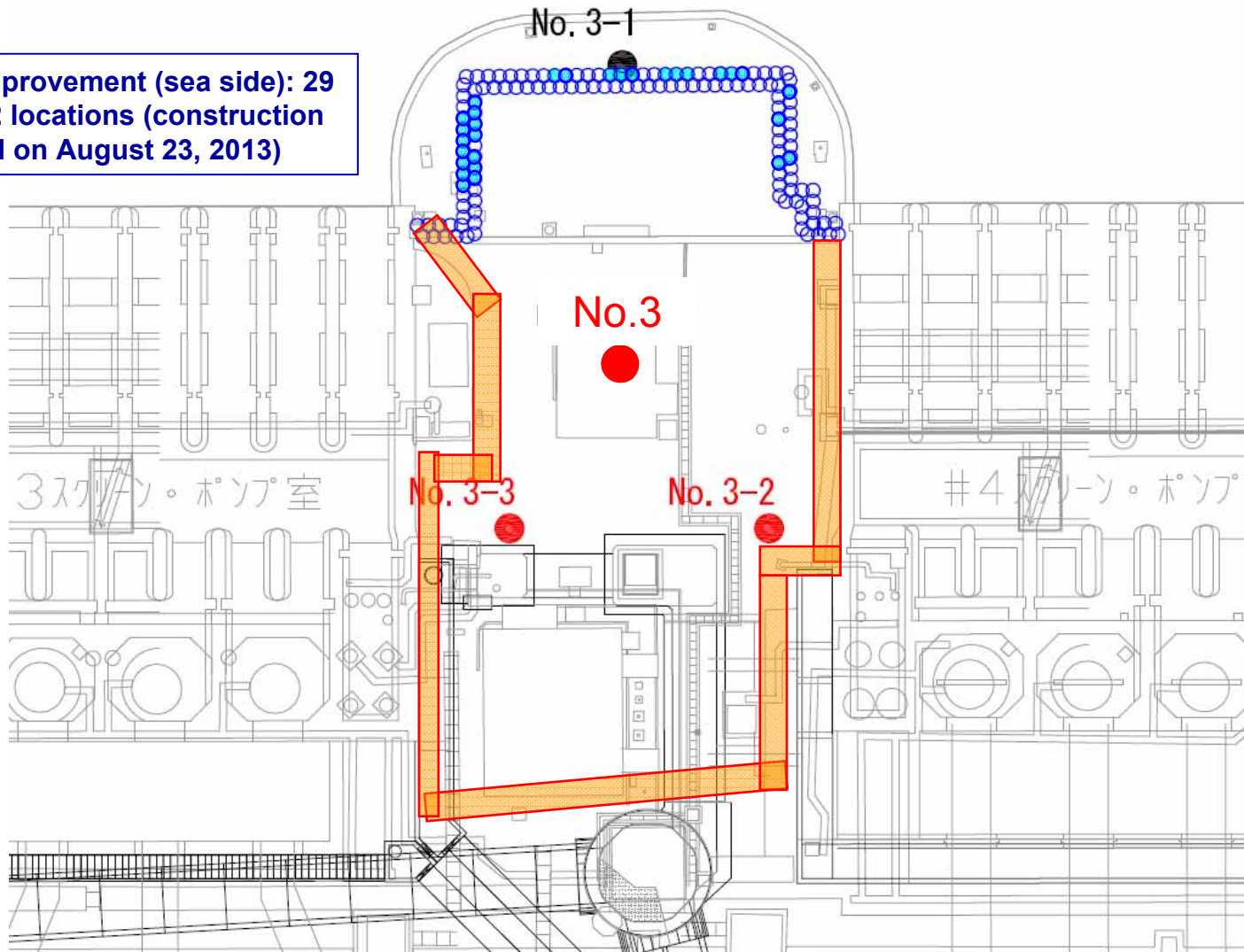
## Progress Status of Ground Improvement Construction between Unit 2 and 3 (As of the Morning on September 13)



\* The range of the construction is subject to change depends on the site status.

# Progress Status of Ground Improvement Construction between Unit 3 and 4 (As of the Morning on September 13)

Ground improvement (sea side): 29  
out of 132 locations (construction  
started on August 23, 2013)



\*1 The range of the construction is subject to change depends on the site status.

\*2 Groundwater observation hole No.3-1 will be not in use due to the ground improvement construction.

# Monitoring Plan (Sampling Locations)

- □ Monitoring of influence in the port
- ▲ ■ Monitoring of groundwater density
- Monitoring of sub-drain (groundwater)

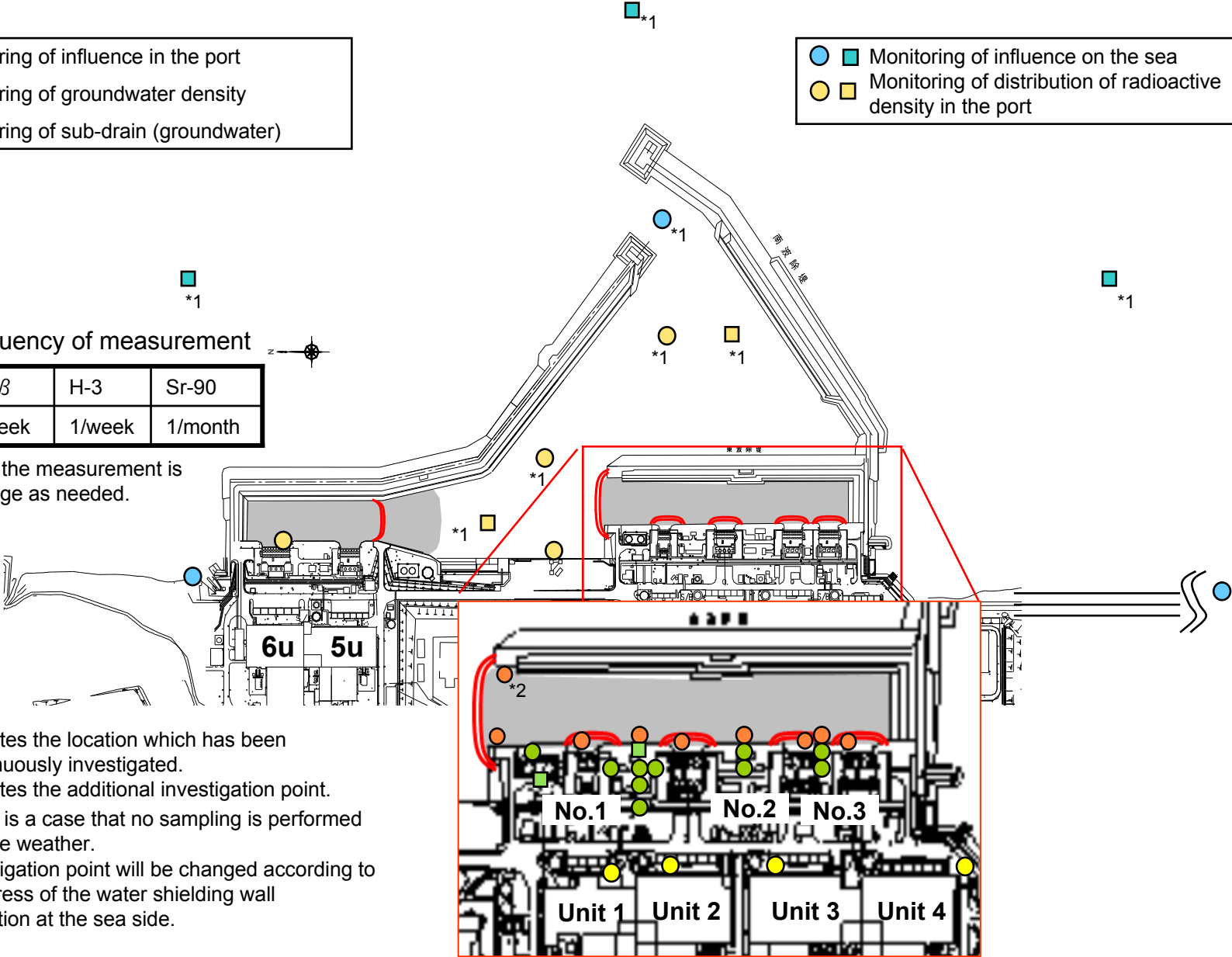
- ■ Monitoring of influence on the sea
- ■ Monitoring of distribution of radioactive density in the port

Item and frequency of measurement

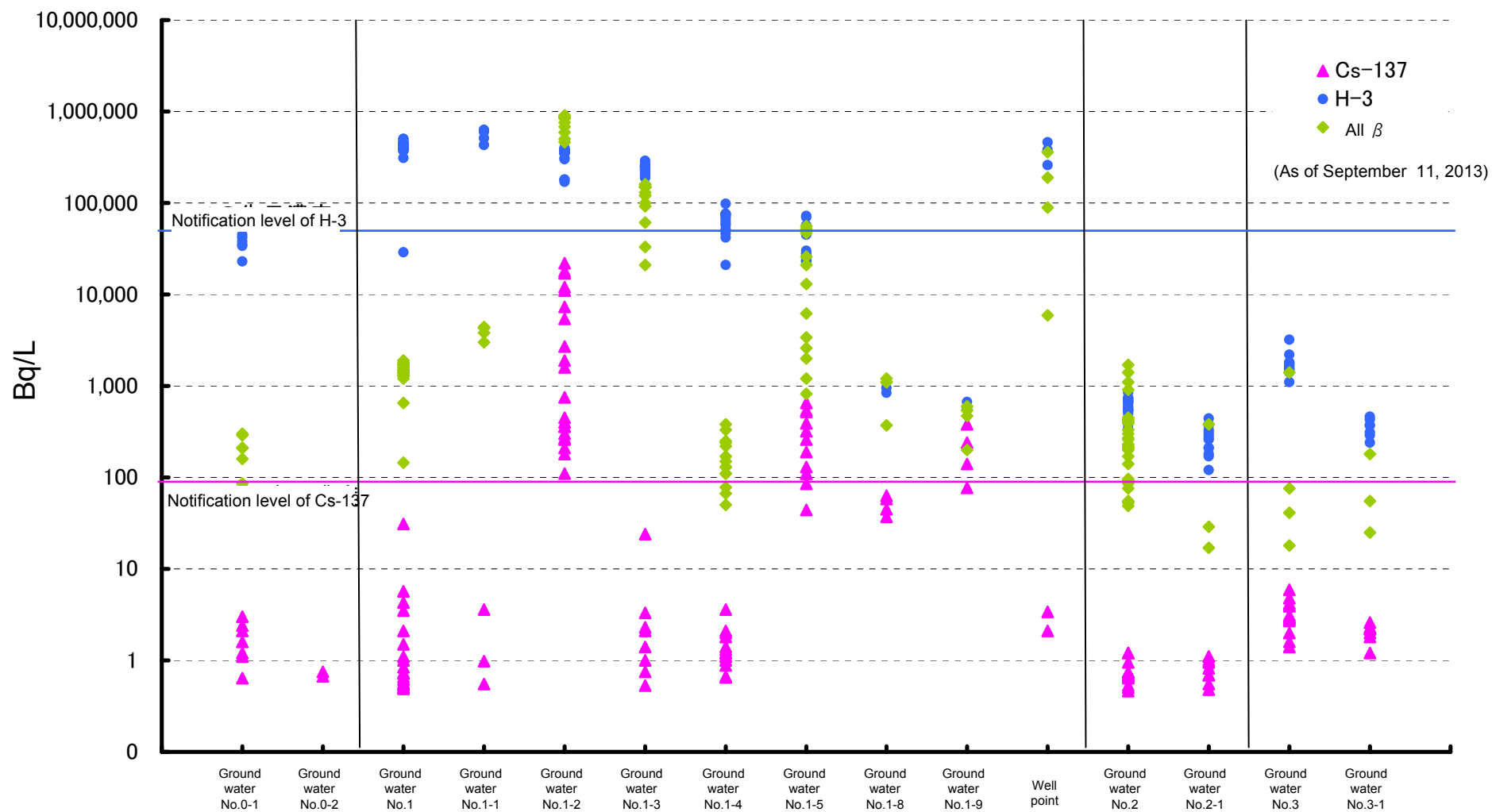
$\gamma$ ray	All $\beta$	H-3	Sr-90
1/week	1/week	1/week	1/month

\* Frequency of the measurement is subject to change as needed.

- indicates the location which has been continuously investigated.
- indicates the additional investigation point.
- \*1 There is a case that no sampling is performed due to the weather.
- \*2 Investigation point will be changed according to the progress of the water shielding wall construction at the sea side.



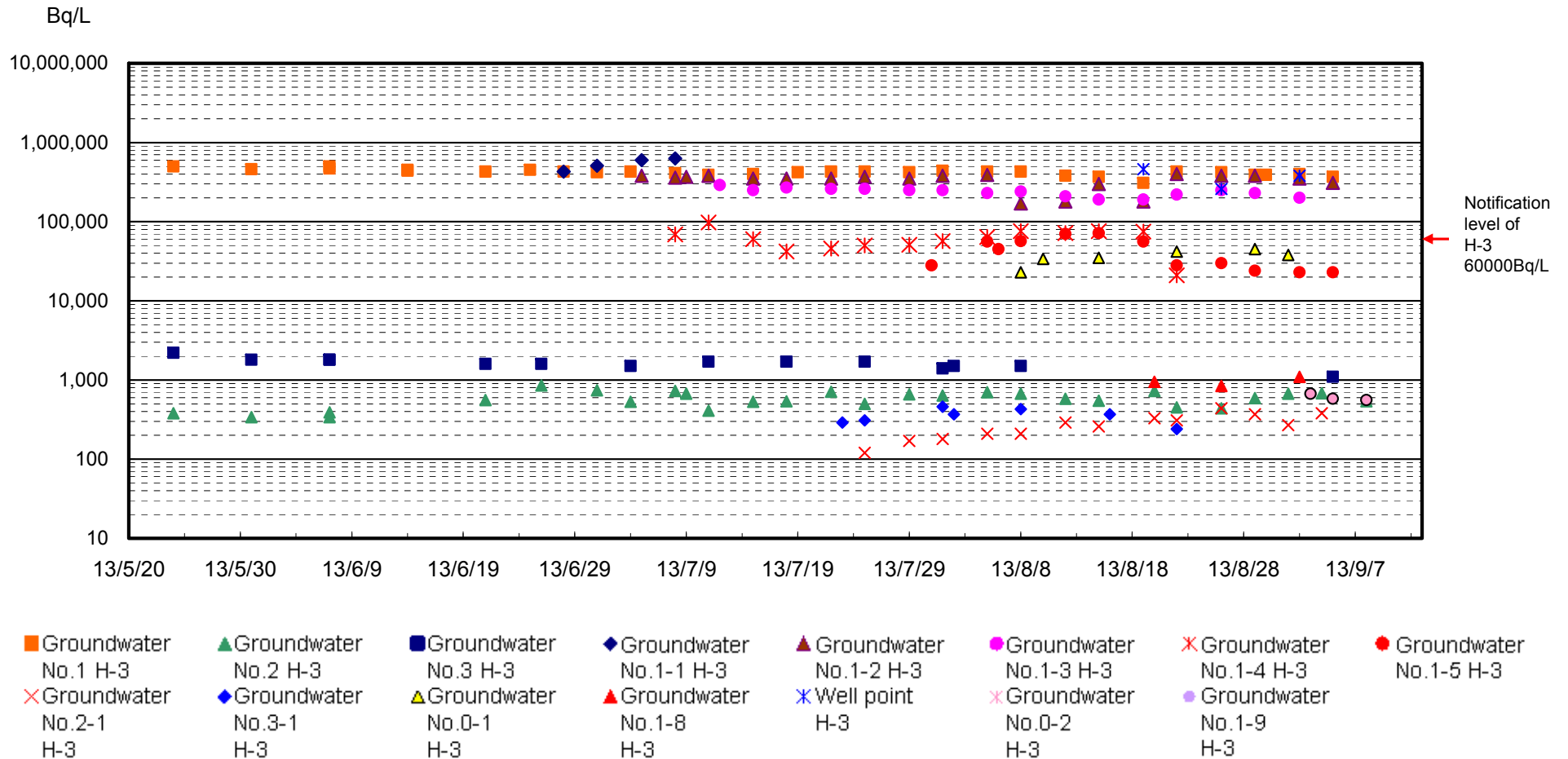
# Density Distribution of the Groundwater (Comparison by the Sampling Point)





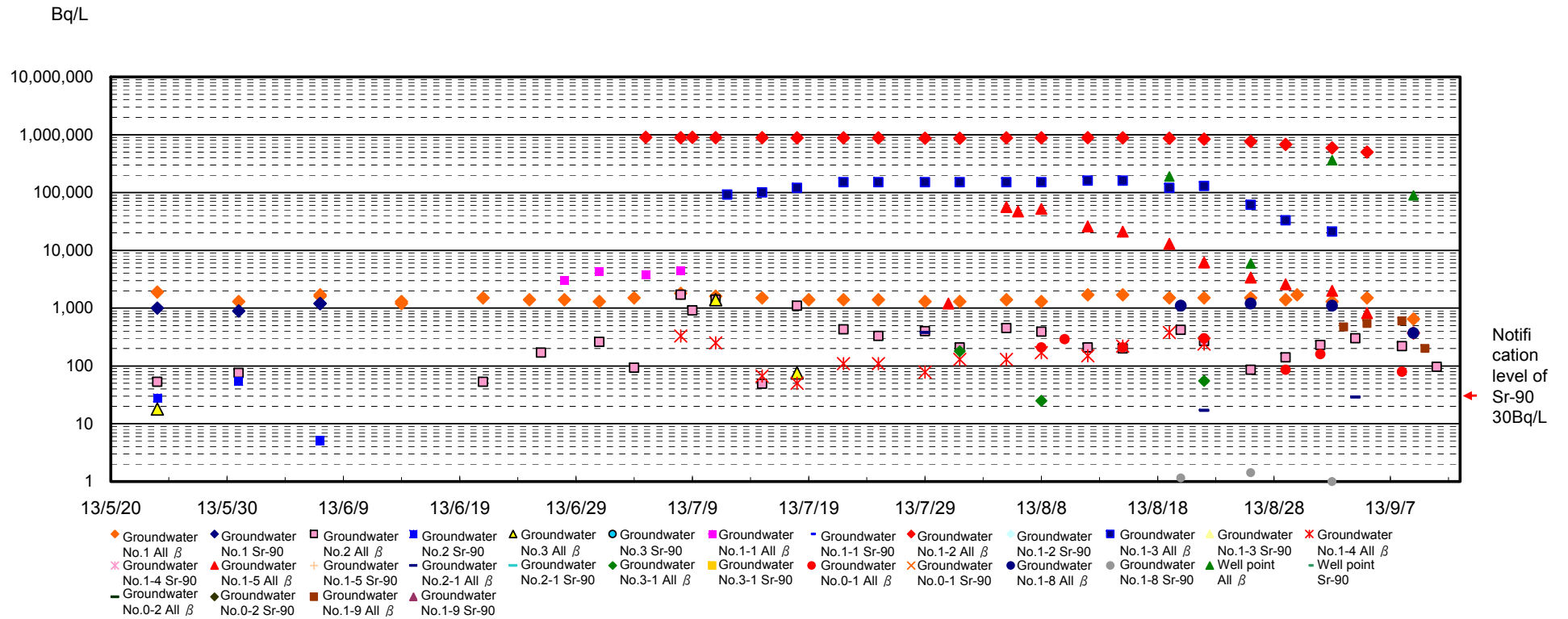
# Density Transition of Tritium in the Groundwater

As of September 12, 2013



# Density Transition of All $\beta$ and Strontium in the Groundwater

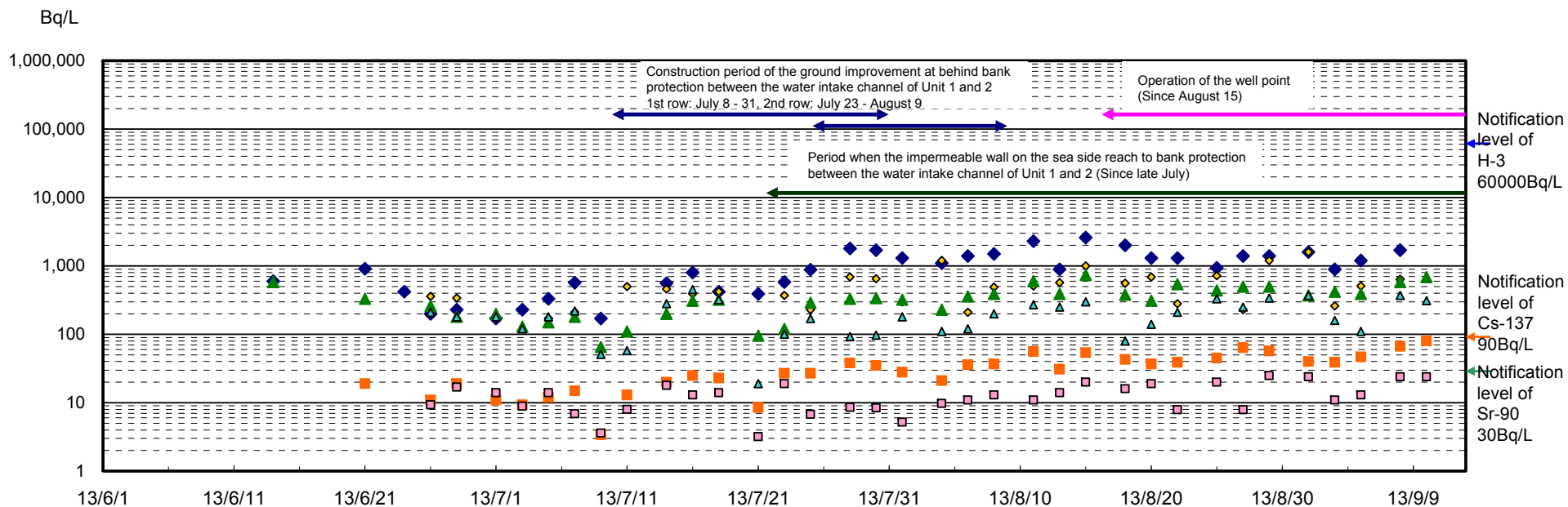
As of September 12, 2013





# Density Transition in the Seawater Obtained at Water Intake Channel between Unit 1 and Unit 2

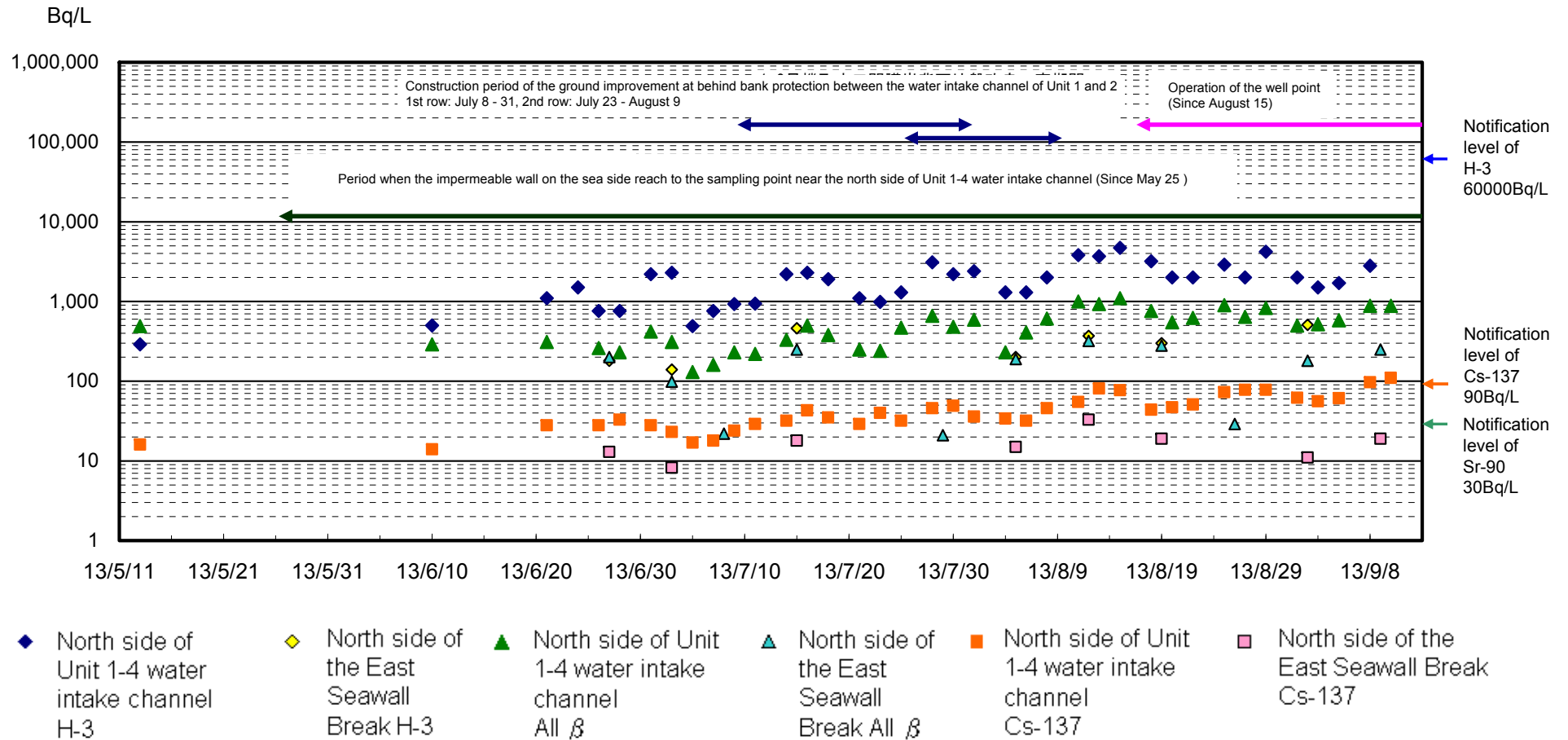
As of September 12, 2013



- ◆ Between the water intake channel of Unit 1 and 2, surface layer, H-3
- ◆ Between the water intake channel of Unit 1 and 2, lower layer, H-3
- Between the water intake channel of Unit 1 and 2, surface layer, Cs-137
- Between the water intake channel of Unit 1 and 2, lower layer, Cs-137
- ▲ Between the water intake channel of Unit 1 and 2, surface layer, All  $\beta$
- ▲ Between the water intake channel of Unit 1 and 2, lower layer, All  $\beta$

# Density Transition in the Seawater Obtained at Unit 1-4 Water Intake Channel and the North Side of the East Seawall Break

As of September 12, 2013



**Groundwater observation hole No.0-1 (Bq/L)**

Sampling date	2013/8/8	2013/8/8 (Remeasurement)	2013/8/10	2013/8/15	2013/8/22	2013/8/29	2013/9/1	2013/9/8
Sampling time	2:15 PM	2:15 PM	9:35 AM	10:52 AM	9:41 AM	9:50 AM	11:03 AM	12:02 PM
Cs-134	0.61		0.66	0.39	ND (0.42)	1.4	0.80	0.92
Cs-137	1.6		1.2	1.1	0.64	3.0	2.1	2.4
Ru-106	ND		ND	ND	ND	ND	ND	ND
Mn-54	ND		ND	ND	ND	ND	ND	ND
Co-60	ND		ND	ND	ND	ND	ND	ND
Sb-125	ND		ND	ND	ND	ND	ND	ND
All β	210		290	210	300	86	160	79
H-3	23,000	23,000	34,000	35,000	42,000	45,000	38,000	Under measurement
Sr-90	Under measurement		-	-	-	-	-	-

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

**Groundwater observation hole No.0-2 (Bq/L)**

Sampling date	2013/9/2	2013/9/8
Sampling time	9:51 AM	12:35 PM
Cs-134	ND (0.47)	ND (0.46)
Cs-137	0.75	0.67
Ru-106	ND	ND
Mn-54	ND	ND
Co-60	ND	ND
Sb-125	ND	ND
All β	ND (24)	ND (17)
H-3	ND (120)	Under measurement
Sr-90	Under measurement	-

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

**Groundwater observation hole No.1 (Bq/L)**

Sampling date	2012/12/8 <sup>1,2</sup>	2013/5/24	2013/5/31	2013/6/7 (1)	2013/6/7 (2)	2013/6/14 (1)	2013/6/14 (2)	2013/6/21	2013/6/25	2013/6/28	2013/7/1
Sampling time	11:00 AM	4:19 PM	3:01 PM	3:45 PM	3:45 PM	2:29 PM	2:29 PM	9:01 AM	1:39 PM	5:50 PM	3:05 PM
Cs-134	ND (0.59)	ND (0.45)	0.53	ND (0.42)	ND (0.40)	ND (0.37)	ND (0.37)	ND (0.36)	ND (0.39)	ND (0.40)	1.1
Cs-137	ND (0.72)	ND (0.45)	0.57	ND (0.53)	0.49	ND (0.43)	0.51	0.53	ND (0.49)	ND (0.43)	1.5
Ru-106	ND	26	19	19	21	18	19	16	20	16	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	150	1,900	1,300	1,700	1,600	1,200	1,300	1,500	1,400	1,400	1,300
H-3	29,000	500,000	460,000	500,000	470,000	450,000	440,000	430,000	450,000	430,000	420,000
Sr-90	8.6	1,000	890	1,200	1,200	Under measurement	Under measurement	Under measurement	-	-	-

\*1 "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

\*2 As of γ nuclide measurement, the amount is lower than true value since the high BG is in use.

Sampling date	2013/7/4	2013/7/8	2013/7/11	2013/7/15	2013/7/19	2013/7/22	2013/7/25	2013/7/29	2013/8/1	2013/8/5	2013/8/8
Sampling time	11:50 AM	1:30 PM	12:51 PM	1:00 PM	8:02 AM	1:21 PM	1:15 PM	11:50 AM	11:55 AM	12:23 PM	11:29 AM
Cs-134	ND (0.64)	ND (0.50)	ND (0.61)	ND (0.43)	ND (0.48)	ND (0.42)	ND (0.42)	ND (0.46)	ND (0.44)	ND (0.52)	0.52
Cs-137	ND (0.47)	ND (0.47)	1.0	ND (0.49)	0.73	ND (0.45)	ND (0.55)	ND (0.51)	0.55	0.62	1.1
Ru-106	24	16	15	18	17	ND	12	17	14	17	15
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	0.50	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND
All β	1,500	1,800	1,600	1,500	1,400	1,400	1,400	1,300	1,300	1,400	1,300
H-3	430,000	410,000	390,000	400,000	420,000	430,000	430,000	420,000	440,000	430,000	430,000
Sr-90	-	-	-	-	-	-	Under measurement	-	-	-	-

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

Sampling date	2013/8/12	2013/8/15	2013/8/19	2013/8/22	2013/8/26	2013/8/29	2013/8/30	2013/9/2	2013/9/5	2013/9/9
Sampling time	10:46 AM	12:01 PM	10:21 AM	10:58 AM	10:36 AM	10:15 AM	11:25 AM	10:07 AM	9:40 AM	10:51 AM
Cs-134	ND (0.42)	ND (0.54)	3.2	ND (0.57)	ND (0.47)	13	0.98	1.5	2.5	ND (0.40)
Cs-137	0.50	ND (0.49)	4.3	0.66	0.84	31	2.1	3.5	5.7	0.72
Ru-106	12	11	14	7.9	14	17	17	11	12	12
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	1,700	1,700	1,500	1,500	1,500	1,400	1,700	1,300	1,500	650
H-3	380,000	370,000	310,000	430,000	420,000	390,000	390,000	400,000	370,000	Under measurement
Sr-90	-	-	-	Under measurement	-	-	-	-	-	-

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

**Groundwater observation hole No.1-1 (Bq/L)**

Sampling date	2013/6/28	2013/7/1	2013/7/5	2013/7/8
Sampling time	4:40 PM	4:05 PM	11:00 AM	2:35 PM
Cs-134	ND (0.41)	ND (0.44)	ND (0.42)	1.9
Cs-137	ND (0.51)	0.98	0.55	3.6
Ru-106	-	7.8	7.7	7.9
Mn-54	0.52	0.92	1.0	0.78
Co-60	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND
All β	3,000	4,300	3,800	4,400
H-3	430,000	510,000	600,000	630,000
Sr-90	Under measurement	-	-	-

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

**Groundwater observation hole No.1-2 (Bq/L)**

Sampling date	2013/7/5	2013/7/8	2013/7/8 (Filtration)	2013/7/9	2013/7/9 (Filtration)	2013/7/9 (Residue)	2013/7/11	2013/7/11 (Filtration)	2013/7/15	2013/7/15 (Filtration)
Sampling time	12:10 PM	2:00 PM	2:00 PM	1:00 PM	1:00 PM	1:00 PM	1:25 PM	1:25 PM	1:23 PM	1:23 PM
Cs-134	99	9,000	94	11,000	130	10,000	8,200	98	5,900	ND (21)
Cs-137	210	18,000	190	22,000	270	20,000	17,000	150	12,000	ND (21)
Ru-106	95	ND	/	ND	/	/	ND	/	ND	/
Mn-54	62	25	/	ND	/	/	ND	/	ND	/
Co-60	1.2	3.1	/	ND	/	/	ND	/	ND	/
Sb-125	35	ND	/	ND	/	/	ND	/	250	/
All β	900,000	890,000	920,000	900,000	890,000	/	890,000	/	890,000	/
H-3	380,000	360,000	/	370,000	/	/	380,000	/	350,000	/
Sr-90	Under measurement	-	/	-	/	/	-	/	-	/

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

Sampling date	2013/7/18	2013/7/18 (Filtration)	2013/7/22	2013/7/22 (Filtration)	2013/7/25	2013/7/25 (Filtration)	2013/7/29	2013/7/29 (Filtration)	2013/8/1	2013/8/1 (Filtration)
Sampling time	1:23 PM	1:23 PM	1:47 PM	1:47 PM	2:00 PM	2:00 PM	12:10 PM	12:10 PM	12:25 PM	12:25 PM
Cs-134	5,400	ND (25)	3,500	50	2,600	ND (22)	1,300	ND (18)	760	ND (26)
Cs-137	11,000	ND (25)	7,300	71	5,400	25	2,700	ND (21)	1,600	45
Ru-106	ND	/	ND	/	ND	/	ND	/	ND	/
Mn-54	ND	/	ND	/	ND	/	ND	/	ND	/
Co-60	ND	/	ND	/	ND	/	ND	/	ND	/
Sb-125	ND	/	ND	/	ND	/	180	/	110	/
All β	880,000	/	880,000	/	880,000	/	870,000	/	870,000	/
H-3	350,000	/	350,000	/	370,000	/	350,000	/	380,000	/
Sr-90	-	/	-	/	-	/	-	/	-	/

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

Sampling date	2013/8/5	2013/8/5 (Filtration)	2013/8/8	2013/8/8 (Filtration)	2013/8/12	2013/8/12 (Filtration)	2013/8/15	2013/8/15 (Filtration)	2013/8/19	2013/8/19 (Filtration)
Sampling time	12:46 PM	12:46 PM	1:38 PM	1:38 PM	12:27 PM	12:27 PM	1:35 PM	1:35 PM	12:06 PM	12:06 PM
Cs-134	350	ND (18)	200	19	180	ND (20)	150	ND (18)	880	53
Cs-137	750	ND (22)	400	29	400	ND (23)	360	38	1,900	97
Ru-106	ND	/	ND	/	ND	/	160	/	ND	/
Mn-54	ND	/	ND	/	ND	/	ND	/	ND	/
Co-60	ND	/	ND	/	ND	/	ND	/	ND	/
Sb-125	110	/	170	/	130	/	95	/	200	/
All β	880,000	/	880,000	/	890,000	/	880,000	/	870,000	/
H-3	390,000	/	170,000	/	180,000	/	300,000	/	180,000	/
Sr-90	-	/	Under measurement	/	-	/	-	/	-	/

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

Sampling date	2013/8/22	2013/8/22 (Filtration)	2013/8/26	2013/8/26 (Filtration)	2013/8/29	2013/8/29 (Filtration)	2013/9/2	2013/9/2 (Filtration)	2013/9/5	2013/9/5 (Filtration)
Sampling time	12:33 PM	12:33 PM	12:35 PM	12:35 PM	11:42 AM	11:42 AM	11:56 AM	11:56 AM	1:40 PM	1:40 PM
Cs-134	150	110	110	80	120	75	140	66	82	52
Cs-137	360	230	270	170	260	160	300	150	180	100
Ru-106	ND	/	ND	/	ND	/	ND	/	ND	/
Mn-54	ND	/	ND	/	ND	/	ND	/	ND	/
Co-60	ND	/	ND	/	ND	/	ND	/	ND	/
Sb-125	ND	/	ND	/	ND	/	ND	/	ND	/
All β	840,000	/	760,000	/	680,000	/	590,000	/	500,000	/
H-3	400,000	/	380,000	/	380,000	/	350,000	/	310,000	/
Sr-90	-	/	-	/	-	/	-	/	-	/

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

Sampling date	2013/9/9	2013/9/9 (Filtration)
Sampling time	1:37 PM	1:37 PM
Cs-134	54	41
Cs-137	110	94
Ru-106	ND	/
Mn-54	ND	/
Co-60	ND	/
Sb-125	ND	/
All β	460,000	/
H-3	Under measurement	/
Sr-90	-	/

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

**Groundwater observation hole No.1-3 (Bq/L)**

Sampling date	2013/7/12	2013/7/15	2013/7/18	2013/7/22	2013/7/25	2013/7/29	2013/8/1	2013/8/5	2013/8/8	2013/8/12	2013/8/15
Sampling time	12:20 PM	1:20 PM	12:36 PM	12:33 PM	12:45 PM	11:26 AM	11:20 AM	11:18 AM	12:18 PM	11:20 AM	12:26 PM
Cs-134	ND (0.66)	ND (0.46)	ND (0.39)	ND (0.46)	ND (0.44)	ND (0.44)	ND (0.50)	ND (0.61)	ND (0.55)	ND (0.55)	ND (0.64)
Cs-137	1.4 (0.54)	ND (0.54)	0.53 (0.39)	ND (0.58)	ND (0.62)	ND (0.47)	0.75 (0.50)	ND (0.60)	1.0 (0.67)	ND (0.67)	ND (0.76)
Ru-106	16	14	15	17	11	16	15	11	17	12	11
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	92,000	100,000	120,000	150,000	150,000	150,000	150,000	150,000	150,000	160,000	160,000
H-3	290,000	250,000	270,000	260,000	260,000	250,000	250,000	230,000	240,000	210,000	190,000
Sr-90	Under measurement	-	-	-	-	-	-	-	Under measurement	-	-

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

Sampling date	2013/8/19	2013/8/22	2013/8/26	2013/8/29	2013/9/2
Sampling time	10:54 AM	11:25 AM	11:18 AM	10:38 AM	10:37 AM
Cs-134	ND (0.56)	1.0	1.1	1.3	10
Cs-137	ND (0.65)	2.3	2.1	3.3	24
Ru-106	14	12	5.1	4.6	ND
Mn-54	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND
Sb-125	ND	ND	1.4	ND	ND
All β	120,000	130,000	61,000	33,000	21,000
H-3	190,000	220,000	250,000	230,000	200,000
Sr-90	-	-	-	-	-

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

**Groundwater observation hole No.1-4 (Bq/L)**

Sampling date	2013/7/8	2013/7/11	2013/7/15	2013/7/18	2013/7/22	2013/7/25	2013/7/29	2013/8/1	2013/8/5	2013/8/8	2013/8/12
Sampling time	3:30 PM	12:25 PM	11:55 AM	12:03 PM	12:18 PM	12:00 PM	10:51 AM	10:43 AM	10:40 AM	11:00 AM	10:21 AM
Cs-134	1.5	0.91	ND (0.41)	0.67	ND (0.43)	0.49	0.48	0.50	ND (0.46)	0.55	ND (0.41)
Cs-137	3.6	2.0	0.67	1.0	1.1	0.88	1.1	1.4	0.65	1.2	1.3
Ru-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	330	250	67	50	110	110	78	130	130	170	150
H-3	69,000	98,000	60,000	42,000	46,000	50,000	51,000	57,000	64,000	76,000	72,000
Sr-90	Under measurement	-	-	-	-	-	-	-	-	Under measurement	-

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

Sampling date	2013/8/15	2013/8/19	2013/8/22
Sampling time	11:30 AM	9:50 AM	10:20 AM
Cs-134	ND (0.47)	1.1	1.0
Cs-137	1.2	2.1	1.8
Ru-106	ND	ND	ND
Mn-54	ND	ND	ND
Co-60	ND	ND	ND
Sb-125	ND	ND	ND
All β	220	380	240
H-3	76,000	75,000	21,000
Sr-90	-	-	-

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

**Groundwater observation hole No.1-5 (Bq/L)**

Sampling date	2013/7/31	2013/8/5	2013/8/6	2013/8/8	2013/8/12	2013/8/15	2013/8/19	2013/8/22	2013/8/26	2013/8/29	2013/9/2
Sampling time	1:05 PM	11:55 AM	10:38 AM	1:05 PM	12:00 PM	1:02 PM	11:40 AM	12:00 PM	12:00 PM	11:13 AM	11:16 AM
Cs-134	21	310	260	250	190	150	130	91	53	62	40
Cs-137	44	650	540	520	390	320	260	190	110	130	85
Ru-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	6.7	12	8.9	9.3	ND	ND	ND	ND	ND
All β	1,200	56,000	47,000	52,000	26,000	21,000	13,000	6,200	3,400	2,600	2,000
H-3	28,000	56,000	45,000	57,000	70,000	72,000	56,000	28,000	30,000	24,000	23,000
Sr-90	Under measurement	-	-	-	-	-	-	Under measurement	-	-	-

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

Sampling date	2013/9/5
Sampling time	12:58 PM
Cs-134	50
Cs-137	110
Ru-106	ND
Mn-54	ND
Co-60	ND
Sb-125	ND
All β	820
H-3	23,000
Sr-90	-

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

**Groundwater observation hole No.1-8 (Bq/L)**

Sampling date	2013/8/20	2013/8/26	2013/9/2	2013/9/9
Sampling time	9:40 AM	9:36 AM	9:37 AM	10:15 AM
Cs-134	21	26	30	17
Cs-137	45	58	63	37
Ru-106	ND	ND	ND	ND
Mn-54	ND	0.52	ND	ND
Co-60	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND
All β	1,100	1,200	1,100	370
H-3	950	840	1,100	Under measurement
Sr-90	Under measurement	-	-	-

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

**Groundwater pumped up from the well point (Bq/L)**

Sampling date	2013/8/19	2013/8/26	2013/9/2	2013/9/9
Sampling time	11:20 AM	10:30 AM	9:35 AM	1:30 PM
Cs-134	1.5	1.0	ND (1.6)	ND (0.63)
Cs-137	3.4	2.1	ND (1.6)	ND (0.68)
Ru-106	17	9.7	25	9.0
Mn-54	ND	ND	ND	ND
Co-60	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND
All β	190,000	5,900	360,000	89,000
H-3	460,000	260,000	380,000	Under measurement
Sr-90	-	-	-	-

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

**Groundwater observation hole No.1-9 (Bq/L)**

Sampling date	2013/9/3	2013/9/3 (Filtration)	2013/9/5	2013/9/5 (Filtration)	2013/9/8	2013/9/10
Sampling time	10:20 AM	10:20 AM	10:20 AM	10:20 AM	8:40 AM	6:20 AM
Cs-134	170	66	110	41	59	33
Cs-137	380	120	240	110	140	77
Ru-106	ND	/	ND	/	ND	ND
Mn-54	ND	/	ND	/	ND	ND
Co-60	ND	/	ND	/	ND	ND
Sb-125	ND	/	ND	/	ND	ND
All β	470	/	540	/	600	200
H-3	670	/	580	/	560	Under measurement
Sr-90	Under measurement	/	-	/	-	-

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

**Groundwater observation hole No.2 (Bq/L)**

Sampling date	2012/12/8 <sup>①</sup>	2013/5/24	2013/5/31	2013/6/7 (①)	2013/6/7 (②)	2013/6/21	2013/6/26	2013/7/1	2013/7/4	2013/7/8	2013/7/9
Sampling time	11:00 AM	4:12 PM	3:16 PM	4:05 PM	4:05 PM	5:44 PM	2:30 PM	4:55 PM	1:05 PM	1:00 PM	12:25 PM
Cs-134	ND (0.61)	ND (0.37)	ND (0.41)	0.47	ND (0.37)	ND (0.32)	ND (0.40)	0.48	ND (0.39)	ND (0.49)	0.50
Cs-137	ND (0.81)	ND (0.41)	0.95	0.73	ND (0.48)	ND (0.37)	ND (0.48)	0.66	ND (0.46)	0.74	0.74
Ru-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	55	53	76	ND (18)	ND (18)	53	170	260	93	1,700	910
H-3	410	380	340	390	340	560	850	740	530	730	670
Sr-90	8.2	28	54	5.2	5.1	Under measurement	-	-	-	-	-

\*1 "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

\*2 As of γ nuclide measurement, the amount is lower than true value since the high BG is in use.

Sampling date	2013/7/11	2013/7/15	2013/7/18	2013/7/22	2013/7/25	2013/7/29	2013/8/1	2013/8/5	2013/8/8	2013/8/12	2013/8/15
Sampling time	11:30 AM	10:50 AM	11:22 AM	11:37 AM	11:04 AM	11:30 AM	12:05 PM	11:18 AM	11:36 AM	11:10 AM	11:32 AM
Cs-134	ND (0.47)	ND (0.37)	ND (0.36)	ND (0.44)	ND (0.39)	ND (0.40)	ND (0.35)	ND (0.42)	ND (0.39)	ND (0.38)	ND (0.46)
Cs-137	1.2	ND (0.44)	0.50	ND (0.53)	0.46	ND (0.47)	1.2	ND (0.53)	ND (0.49)	ND (0.48)	ND (0.53)
Ru-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	1,400	49	1,100	430	330	400	210	450	390	210	200
H-3	410	530	540	710	500	660	640	700	670	580	550
Sr-90	-	-	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/8/19	2013/8/22	2013/8/26	2013/8/29	2013/9/1	2013/9/4	2013/9/8	2013/9/11
Sampling time	9:57 AM	9:25 AM	10:15 AM	10:10 AM	10:00 AM	10:10 AM	11:50 AM	9:27 AM
Cs-134	ND (0.42)	ND (0.41)	ND (0.43)	ND (0.43)	ND (0.41)	ND (0.44)	ND (0.47)	0.36
Cs-137	0.68	0.74	0.66	ND (0.54)	ND (0.55)	0.53	0.70	0.64
Ru-106	ND	ND	ND	ND	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND
All β	420	270	86	140	230	300	220	96
H-3	730	450	440	590	670	680	540	Under measurement
Sr-90	-	-	-	-	-	-	-	-

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



**Groundwater observation hole No.2-1 (Bq/L)**

Sampling date	2013/7/25	2013/7/29	2013/8/1	2013/8/5	2013/8/8	2013/8/12	2013/8/15	2013/8/19	2013/8/22	2013/8/26	2013/8/29
Sampling time	11:28 AM	10:53 AM	11:19 AM	10:40 AM	11:05 AM	10:34 AM	10:56 AM	9:18 AM	9:57 AM	9:45 AM	9:36 AM
Cs-134	ND (0.42)	ND (0.43)	0.44	ND (0.44)	ND (0.40)	ND (0.43)	ND (0.37)	ND (0.45)	ND (0.43)	ND (0.43)	ND (0.43)
Cs-137	0.69	1.0	0.95	0.55	0.69	0.48	ND (0.52)	ND (0.61)	ND (0.56)	ND (0.54)	1.1
Ru-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	ND (17)	380	ND (17)	ND (22)	ND (18)	ND (19)	ND (18)	ND (18)	17	ND (18)	ND (20)
H-3	120	170	180	210	210	290	260	330	310	440	370
Sr-90	Under measurement	-	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/9/1	2013/9/4
Sampling time	9:30 AM	9:40 AM
Cs-134	0.66	ND (0.40)
Cs-137	1	0.82
Ru-106	ND	ND
Mn-54	ND	ND
Co-60	ND	ND
Sb-125	ND	ND
All β	ND (19)	29
H-3	270	380
Sr-90	-	-

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

**Groundwater observation hole No.3 (Bq/L)**

Sampling date	2012/12/12 <sup>2</sup>	2013/5/24	2013/5/31	2013/6/7 (1)	2013/6/7 (2)	2013/6/21	2013/6/26	2013/7/4	2013/7/11	2013/7/18	2013/7/25
Sampling time	11:00 AM	4:52 PM	3:32 PM	3:58 PM	3:58 PM	5:01 PM	3:50 PM	2:00 PM	10:55 AM	10:45 AM	1:30 PM
Cs-134	ND (0.60)	0.87	1.6	0.9	0.5	1.7	0.96	1.5	1.9	1.2	3.5
Cs-137	ND (0.79)	1.4	2.7	2.0	1.6	2.9	2.9	2.8	4.8	3.1	3.9
Ru-106	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All β	41	18	ND (17)	ND (18)	ND (18)	ND (17)	ND (21)	ND (18)	1,400	76	ND (17)
H-3	3,200	2,200	1,800	1,800	1,800	1,600	1,600	1,500	1,700	1,700	1,700
Sr-90	8.3	ND (1.0)	0.25	ND (0.24)	ND (0.27)	Under measurement	-	-	-	-	-

\*1 "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

\*2 As of γ nuclide measurement, the amount is lower than true value since the high BG is in use.

Sampling date	2013/8/1	2013/8/2	2013/8/8	2013/9/5
Sampling time	12:59 PM	2:25 PM	2:19 PM	9:20 AM
Cs-134	1.8	2.4	2.2	3.0
Cs-137	4.2	4.0	5.9	3.0
Ru-106	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND
Co-60	ND	ND	ND	ND
Sb-125	ND	ND	ND	1.1
All β	ND (17)	ND (18)	ND (18)	ND (24)
H-3	1,400	1,500	1,500	1,100
Sr-90	-	-	-	-

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

**Groundwater observation hole No.3-1 (Bq/L)**

Sampling date	2013/7/23	2013/7/25	2013/8/1	2013/8/2	2013/8/8	2013/8/16	2013/8/22
Sampling time	11:10 AM	3:15 PM	1:38 PM	3:45 PM	3:04 PM	12:21 PM	11:55 AM
Cs-134	1.1	1.2	1.1	1.0	1.2	0.67	0.68
Cs-137	2.2	2.2	2.6	2.3	2.0	1.8	1.2
Ru-106	ND	ND	ND	ND	ND	ND	ND
Mn-54	ND	ND	ND	ND	ND	ND	ND
Co-60	ND	ND	ND	ND	ND	ND	ND
Sb-125	ND	ND	ND	ND	ND	ND	ND
All β	ND (19)	ND (18)	180	ND (18)	25	ND (20)	55
H-3	290	310	460	370	430	370	240
Sr-90	Under measurement	-	-	-	-	-	-

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

**North side of Unit 5.6 discharge channel (Bq/L)**

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26
Sampling time	7:25 AM	11:25 AM	6:55 AM	6:15 AM	6:05 AM	5:50 AM	5:55 AM	6:55 AM	6:30 AM	6:10 AM	6:00 AM
Cs-134	1.8	ND (1.9)	ND (1.2)	1.4	ND (1.2)	ND (1.3)	ND (0.92)	ND (1.4)	ND (0.93)	ND (1.4)	ND (1.2)
Cs-137	2.1	3.3	1.2	2.5	1.5	2.5	ND (1.4)	ND (1.5)	1.4	ND (1.5)	ND (1.7)
All β	-	ND (22)	ND (17)	ND (19)	ND (22)	ND (23)	ND (19)	ND (22)	ND (19)	ND (18)	ND (19)
H-3	-	8.6	4.9	3.7	5.5	ND (3.2)	ND (2.9)	3.7	4.7	5.4	8.3
Sr-90	-	5.8	-	-	-	Under measurement	-	-	-	Under measurement	-

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

Sampling date	2013/9/2	2013/9/9
Sampling time	6:00 AM	6:05 AM
Cs-134	ND (1.1)	ND (1.1)
Cs-137	ND (1.4)	ND (1.1)
All β	ND (16)	ND (16)
H-3	ND (1.8)	Under measurement
Sr-90	-	-

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

**In front of Unit 6 water intake channel, seawater (Bq/L)**

Sampling date	2013/6/25	2013/7/2	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26	2013/9/2
Sampling time	7:15 AM	6:25 AM	6:30 AM	6:15 AM	5:50 AM	6:15 AM	6:10 AM	6:20 AM	6:30 AM	5:50 AM	5:50 AM
Cs-134	ND (3.3)	ND (1.7)	ND (2.2)	ND (1.6)	ND (1.4)	ND (2.4)	ND (2.0)	ND (2.4)	2.4	ND (2.0)	ND (3.2)
Cs-137	ND (2.1)	2.6	ND (1.9)	3.1	ND (1.3)	ND (2.3)	ND (2.7)	ND (2.5)	4.7	ND (2.5)	2.4
All β	ND (18)	20	ND (17)	ND (22)	ND (21)	ND (19)	ND (22)	ND (19)	46	ND (21)	ND (19)
H-3	6.0	8.2	ND (3.1)	11	ND (3.2)	ND (2.9)	4.1	8.8	24	5.9	8.6
Sr-90	-	-	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/9/9
Sampling time	5:55 AM
Cs-134	ND (2.3)
Cs-137	ND (2.7)
All β	ND (17)
H-3	Under measurement
Sr-90	-

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

**In front of shallow draft quay, seawater (Bq/L)**

Sampling date	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26	2013/9/2
Sampling time	6:06 AM	6:03 AM	5:31 AM	5:30 AM	5:25 AM	5:34 AM	6:00 AM	6:10 AM	5:53 AM	5:48 AM	5:49 AM
Cs-134	ND (1.8)	1.9	ND (1.8)	ND (2.3)	ND (1.9)	ND (1.7)	5.3	3.5	3.3	ND (2.0)	ND (1.9)
Cs-137	2.3	5.6	5.1	5.7	ND (2.2)	2.2	8.6	7.9	7.4	ND (2.2)	ND (2.5)
All β	ND (18)	40	19	35	ND (21)	ND (19)	31	25	28	28	ND (19)
H-3	340	ND (120)	ND (120)	ND (120)	ND (120)	ND (120)	ND (130)	ND (120)	ND (120)	ND (120)	ND (130)
Sr-90	7.4	-	-	-	Under measurement	-	-	-	Under measurement	-	-

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

Sampling date	2013/9/9
Sampling time	5:50 AM
Cs-134	2.3
Cs-137	4.5
All β	ND (17)
H-3	Under measurement
Sr-90	-

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

**North side of Unit 1-4 water intake channel, seawater (Bq/L)**

Sampling date	2013/1/14	2013/2/11	2013.3.11	2013/4/15	2013/5/13	2013/6/10	2013/6/21	2013/6/24	2013/6/26	2013/6/28	2013/7/1
Sampling time	7:00 AM	6:32 AM	6:27 AM	6:12 AM	5:59 AM	6:01 AM	6:18 AM	5:50 PM	6:13 AM	6:27 AM	6:26 AM
Cs-134	3.5	3.7	31	ND (2.5)	9.2	7.3	12	-	18	15	13
Cs-137	5.7	10	56	6.0	16	14	28	-	28	33	28
All β	170	260	230	140	490	290	310	-	260	230	420
H-3	110	170	120	110	290	500	1,100	1,500	760	760	2,200
Sr-90	-	-	-	-	-	-	Under measurement	-	-	-	-

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

Sampling date	2013/7/3	2013/7/5	2013/7/7	2013/7/9	2013/7/11	2013/7/14	2013/7/16	2013/7/18	2013/7/21	2013/7/23	2013/7/25
Sampling time	6:08 AM	6:17 AM	6:11 AM	6:09 AM	6:46 AM	6:11 AM	6:08 AM	6:06 AM	5:51 AM	6:23 AM	6:11 AM
Cs-134	13	6.3	8.0	11	12	14	19	14	16	18	18
Cs-137	23	17	18	24	29	32	43	35	29	40	32
All β	310	130	160	230	220	330	500	380	250	240	470
H-3	2,300	490	760	930	940	2,200	2,300	1,900	1,100	990	1,300
Sr-90	-	-	-	-	-	-	-	-	-	Under measurement	-

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

Sampling date	2013/7/28	2013/7/30	2013/8/1	2013/8/4	2013/8/6	2013/8/8	2013/8/11	2013/8/13	2013/8/15	2013/8/18	2013/8/20
Sampling time	6:13 AM	6:04 AM	6:23 AM	6:13 AM	6:05 AM	6:02 AM	6:04 AM	6:11 AM	6:15 AM	6:05 AM	6:33 AM
Cs-134	24	21	19	14	13	17	27	34	32	18	22
Cs-137	46	49	36	34	32	46	55	81	77	44	47
All β	660	480	590	230	410	610	1,000	930	1,100	760	550
H-3	3,100	2,200	2,400	1,300	1,300	2,000	3,800	3,700	4,700	3,200	2,000
Sr-90	-	-	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/8/22	2013/8/25	2013/8/27	2013/8/29	2013/9/1	2013/9/3	2013/9/5	2013/9/8	2013/9/10
Sampling time	6:09 AM	5:58 AM	6:07 AM	6:13 AM	6:05 AM	6:03 AM	6:02 AM	5:58 AM	6:06 AM
Cs-134	24	33	33	35	28	28	28	39	54
Cs-137	51	73	78	78	62	56	61	97	110
All β	620	900	640	830	500	520	580	880	880
H-3	2,000	2,900	2,000	4,200	2,000	1,500	1,700	2,800	Under measurement
Sr-90	Under measurement	-	-	-	-	-	-	-	-

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

**North side of Unit 1-4 water intake channel (north side of the east seawall break), seawater (Bq/L)**

Sampling date	2013/6/27	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26	2013/9/2
Sampling time	9:50 AM	6:50 AM	6:17 AM	6:12 AM	6:14 AM	6:15 AM	6:42 AM	6:58 AM	6:43 AM	6:28 AM	6:17 AM
Cs-134	6.1	3.3	ND (1.4)	7.7	ND (1.8)	ND (2.5)	7.9	16	8.0	ND (2.1)	4.8
Cs-137	13	8.2	ND (1.7)	18	ND (1.8)	ND (1.9)	15	33	19	ND (2.2)	11
All β	200	99	22	250	ND (2.1)	21	190	320	280	29	180
H-3	180	140	ND (120)	460	ND (120)	ND (120)	200	370	300	ND (120)	510
Sr-90	Under measurement	-	-	-	Under measurement	-	-	-	Under measurement	-	-

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

Sampling date	2013/9/9
Sampling time	6:31 AM
Cs-134	12
Cs-137	19
All β	250
H-3	Under measurement
Sr-90	-

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

**Unit 1 screen (inside the silt fence), seawater (Bq/L)**

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26
Sampling time	6:23 AM	6:18 AM	6:13 AM	5:45 AM	5:43 AM	5:38 AM	5:44 AM	6:10 AM	6:20 AM	6:09 AM	5:58 AM
Cs-134	6.9	8.9	5.4	3.4	17	4.8	16	12	24	24	23
Cs-137	15	20	13	12	37	8.4	34	28	51	41	50
All β	160	170	140	89	320	79	330	260	700	540	530
H-3	480	530	420	180	1,300	320	1,500	1,200	2,500	1,800	1,400
Sr-90	Under measurement	-	-	-	-	Under measurement	-	-	-	Under measurement	-

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

Sampling date	2013/9/2	2013/9/9
Sampling time	5:57 AM	6:01 AM
Cs-134	24	31
Cs-137	50	68
All β	540	550
H-3	1400	Under measurement
Sr-90	-	-

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

**Between the water intake channel of Unit 1 and Unit 2, seawater (Surface layer) (Bq/L)**

Sampling date	2013/7/14	2013/6/21	2013/6/24	2013/6/26	2013/6/28	2013/7/1	2013/7/3	2013/7/5	2013/7/7	2013/7/9	2013/7/11
Sampling time	1:20 PM	11:00 AM	6:00 PM	4:55 PM	11:34 AM	6:04 AM	6:15 AM	6:25 AM	6:22 AM	6:18 AM	6:58 AM
Cs-134	-	9.4	-	6.2	8.5	4.9	5.3	5.6	6.8	ND (2.1)	5.6
Cs-137	-	19	-	11	19	11	9.3	12	15	3.4	13
All β	-	330	-	260	180	200	130	150	180	65	110
H-3	600	910	420	200	230	170	230	330	570	170	ND (120)
Sr-90	-	Under measurement	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/7/14	2013/7/16	2013/7/18	2013/7/21	2013/7/23	2013/7/25	2013/7/28	2013/7/30	2013/8/1	2013/8/4	2013/8/6
Sampling time	6:20 AM	6:16 AM	6:14 AM	5:59 AM	6:33 AM	6:26 AM	6:22 AM	6:13 AM	6:34 AM	6:25 AM	6:13 AM
Cs-134	7.9	11	9.5	3.3	15	14	15	17	13	11	19
Cs-137	20	25	23	8.5	27	27	38	35	28	21	36
All β	200	310	320	96	120	290	330	340	320	230	360
H-3	560	800	420	390	580	880	1,800	1,700	1,300	1,100	1,400
Sr-90	-	-	-	-	Under measurement	-	-	-	-	-	-

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

Sampling date	2013/8/8	2013/8/11	2013/8/13	2013/8/15	2013/8/18	2013/8/20	2013/8/22	2013/8/25	2013/8/27	2013/8/29	2013/9/1
Sampling time	6:08 AM	6:15 AM	6:19 AM	6:27 AM	6:13 AM	6:41 AM	6:31 AM	6:12 AM	6:15 AM	6:25 AM	6:12 AM
Cs-134	18	27	15	25	21	16	20	17	26	26	23
Cs-137	37	56	31	54	43	37	39	45	64	57	40
All β	390	600	390	740	380	310	540	440	500	500	370
H-3	1,500	2,300	890	2,800	2,000	1,300	1,300	940	1400	1400	1600
Sr-90	-	-	-	-	-	-	Under measurement	-	-	-	-

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

Sampling date	2013/9/3	2013/9/5	2013/9/8	2013/9/10
Sampling time	6:11 AM	6:15 AM	6:05 AM	6:16 AM
Cs-134	16	17	30	39
Cs-137	39	47	67	80
All β	420	390	580	690
H-3	890	1,200	1,700	Under measurement
Sr-90	-	-	-	-

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

**Between the water intake channel of Unit 1 and Unit 2, seawater (Lower layer) (Bq/L)**

Sampling date	2013/6/26	2013/6/28	2013/7/1	2013/7/3	2013/7/5	2013/7/7	2013/7/9	2013/7/11	2013/7/14	2013/7/16	2013/7/18
Sampling time	4:55 PM	11:36 AM	6:04 AM	6:15 AM	6:25 AM	6:22 AM	6:18 AM	6:58 AM	6:20 AM	6:16 AM	6:14 AM
Cs-134	6.2	7.5	5.7	3.0	6.8	4.9	2.0	2.6	9.6	7.5	7.0
Cs-137	9.3	17	14	8.9	14	6.9	3.6	8.0	18	13	14
All β	210	180	180	120	180	220	51	58	180	450	320
H-3	360	340	ND (120)	ND (120)	170	210	ND (120)	500	460	390	420
Sr-90	Under measurement	-	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/7/21	2013/7/23	2013/7/25	2013/7/28	2013/7/30	2013/7/31	2013/8/4	2013/8/6	2013/8/8	2013/8/11	2013/8/13
Sampling time	5:59 AM	6:33 AM	6:26 AM	6:22 AM	6:13 AM	6:34 AM	6:25 AM	6:13 AM	6:08 AM	6:15 AM	6:19 AM
Cs-134	ND (1.6)	9.9	4.3	2.3	2.5	4.0	5.8	4.2	6.0	5.7	6.1
Cs-137	3.2	19	6.8	8.6	8.4	5.2	9.8	11	13	11	14
All β	19	100	170	93	97	180	110	120	200	270	250
H-3	ND (120)	370	230	690	650	300	1,200	210	490	510	570
Sr-90	-	Under measurement	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/8/15	2013/8/18	2013/8/20	2013/8/22	2013/8/25	2013/8/27	2013/8/29	2013/9/1	2013/9/3	2013/9/5	2013/9/8
Sampling time	6:27 AM	6:13 AM	6:41 AM	6:31 AM	6:12 AM	6:15 AM	6:25 AM	6:12 AM	6:11 AM	6:15 AM	6:05 AM
Cs-134	8.9	5.1	8.3	5.2	9.4	3.4	13	11	3.4	7.0	12
Cs-137	20	16	19	7.9	20	7.9	25	24	11	13	24
All β	300	80	140	210	330	250	340	370	160	110	370
H-3	1,000	560	690	280	720	230	1,200	1,600	260	510	640
Sr-90	-	-	-	Under measurement	-	-	-	-	-	-	-

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

Sampling date	2013/9/10
Sampling time	6:16 AM
Cs-134	11
Cs-137	24
All β	310
H-3	Under measurement
Sr-90	-

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

**Unit 2 screen (inside the silt fence), seawater (Bq/L)**

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26
Sampling time	6:29 AM	6:24 AM	6:27 AM	5:51 AM	5:48 AM	5:45 AM	5:50 AM	6:15 AM	6:31 AM	6:17 AM	6:04 AM
Cs-134	7.1	11	16	ND (1.8)	14	ND (1.9)	6.8	11	20	26	12
Cs-137	14	23	34	5.1	27	ND (1.9)	18	24	42	52	35
All β	230	260	220	26	250	ND (21)	140	240	370	490	280
H-3	290	320	250	ND (120)	440	ND (120)	370	500	570	820	380
Sr-90	Under measurement	-	-	-	-	Under measurement	-	-	-	Under measurement	-

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

Sampling date	2013/9/2	2013/9/9
Sampling time	6:01 AM	6:05 AM
Cs-134	15	25
Cs-137	36	49
All β	300	520
H-3	520	Under measurement
Sr-90	-	-

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

**Between the water intake channel of Unit 2 and Unit 3, seawater (Bq/L)**

Sampling date	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/20 Surface layer	2013/8/20 Lower layer
Sampling time	6:51 AM	6:30 AM	5:56 AM	5:53 AM	5:49 AM	5:54 AM	6:19 AM	6:37 AM	6:21 AM	10:55 AM	11:10 AM
Cs-134	8.8	6.0	4.6	9.3	ND (1.7)	8.4	15	21	12	5.2	3.5
Cs-137	18	14	15	18	ND (1.8)	23	34	37	30	14	9.8
All β	220	140	40	250	ND (21)	160	210	410	310	230	85
H-3	350	ND (120)	ND (120)	460	ND (120)	660	320	720	240	-	-
Sr-90	Under measurement	-	-	-	Under measurement	-	-	-	Under measurement	-	-

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

Sampling date	2013/8/26	2013/9/2	2013/9/9
Sampling time	6:08 AM	6:03 AM	6:11 AM
Cs-134	8.2	10	19
Cs-137	24	24	38
All β	280	300	450
H-3	350	420	Under measurement
Sr-90	-	-	-

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

**Unit 3 screen (inside the silt fence), seawater (Bq/L)**

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/16	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19
Sampling time	6:33 AM	6:30 AM	6:36 AM	6:01 AM	5:59 AM	6:32 AM	11:13 AM	5:57 AM	6:25 AM	6:41 AM	6:28 AM
Cs-134	64	59	32	8.3	350	190	31	7.6	69	39	68
Cs-137	110	120	68	16	770	380	63	19	140	82	140
All β	270	310	230	72	1,000	610	120	96	290	340	270
H-3	220	190	ND (120)	ND (120)	ND (120)	-	ND (120)	200	240	380	160
Sr-90	Under measurement	-	-	-	-	-	Under measurement	-	-	-	Under measurement

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

Sampling date	2013/8/26	2013/9/2	2013/9/9
Sampling time	6:14 AM	6:06 AM	6:15 AM
Cs-134	14	17	21
Cs-137	43	32	38
All β	300	220	270
H-3	260	410	Under measurement
Sr-90	-	-	-

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

**Between the water intake channel of Unit 3 and Unit 4, seawater (Bq/L)**

Sampling date	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/20 Surface layer	2013/8/20 Lower layer
Sampling time	6:47 AM	6:38 AM	6:06 AM	6:00 AM	6:02 AM	6:02 AM	6:29 AM	6:48 AM	6:32 AM	11:16 AM	11:25 AM
Cs-134	9.9	7.3	2.6	12	ND (2.0)	11	12	22	20	14	4.8
Cs-137	23	16	7.0	26	ND (2.0)	22	28	45	43	30	7.7
All β	230	130	18	260	ND (21)	120	210	390	160	180	57
H-3	250	ND (120)	ND (120)	430	ND (120)	280	280	650	270	-	-
Sr-90	Under measurement	-	-	-	Under measurement	-	-	-	Under measurement	-	-

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

Sampling date	2013/8/26	2013/9/2	2013/9/9
Sampling time	6:20 AM	6:08 AM	6:20 AM
Cs-134	12	9.8	14
Cs-137	26	22	36
All β	320	250	280
H-3	310	430	Under measurement
Sr-90	-	-	-

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

**Unit 4 screen (inside the silt fence), seawater (Bq/L)**

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26
Sampling time	6:37 AM	6:35 AM	6:42 AM	6:04 AM	6:02 AM	11:16 AM	6:00 AM	6:28 AM	6:44 AM	6:37 AM	6:18 AM
Cs-134	31	34	17	46	43	12	30	27	30	20	13
Cs-137	70	65	36	93	89	26	64	58	62	49	34
All β	250	220	160	130	300	49	200	210	310	200	270
H-3	ND (210)	260	ND (120)	ND (120)	180	ND (120)	260	210	400	ND (120)	280
Sr-90	Under measurement	-	-	-	-	Under measurement	-	-	-	Under measurement	-

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

Sampling date	2013/9/2	2013/9/9
Sampling time	6:12 AM	6:18 AM
Cs-134	16	21
Cs-137	28	45
All β	230	210
H-3	360	Under measurement
Sr-90	-	-

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

**Around the south discharge channel (Bq/L)**

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/22	2013/7/29	2013/8/5	2013/8/12	2013/8/19	2013/8/26
Sampling time	7:15 AM	11:15 AM	5:10 AM	5:15 AM	10:45 AM	5:15 AM	5:15 AM	5:20 AM	5:40 AM	5:20 AM	5:20 AM
Cs-134	ND (1.0)	ND (1.1)	ND (1.2)	ND (0.93)	ND (1.2)	ND (1.2)	ND (1.0)	ND (1.3)	ND (1.2)	ND (1.4)	ND (1.1)
Cs-137	2.0	ND (1.3)	ND (1.2)	ND (1.1)	3.0	ND (1.4)	ND (1.3)	ND (1.6)	ND (1.4)	ND (1.5)	ND (1.0)
All β	ND (19)	ND (22)	ND (18)	ND (18)	ND (21)	ND (20)	ND (21)	ND (18)	ND (19)	ND (18)	ND (19)
H-3	-	ND (2.9)	ND (3.0)	ND (3.1)	ND (2.9)	ND (3.2)	ND (2.9)	ND (3.1)	ND (2.9)	ND (3.0)	ND (1.7)
Sr-90	-	0.36	-	-	-	Under measurement	-	-	-	Under measurement	-

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

Sampling date	2013/9/2	2013/9/9
Sampling time	5:20 AM	5:20 AM
Cs-134	ND (1.4)	ND (1.3)
Cs-137	ND (1.3)	ND (1.5)
All β	ND (21)	ND (15)
H-3	ND (1.8)	Under measurement
Sr-90	-	-

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

**Port entrance, seawater (Bq/L)**

Sampling date	2013/6/20	2013/6/26	2013/7/4	2013/7/9	2013/7/17	2013/7/22	2013/7/31	2013/8/5	2013/8/12	2013/8/19	2013/8/28
Sampling time	1:18 PM	2:19 PM	3:19 PM	10:29 AM	12:20 PM	11:32 AM	7:38 AM	11:54 AM	9:14 AM	7:22 AM	7:21 AM
Cs-134	ND (1.3)	ND (1.9)	ND (1.7)	ND (2.0)	ND (2.2)	ND (1.9)	ND (2.1)	ND (1.9)	ND (1.4)	1.6	ND (2.0)
Cs-137	ND (1.2)	3.7	ND (2.0)	ND (2.6)	ND (2.0)	ND (2.0)	ND (1.9)	ND (2.4)	ND (1.5)	4.7	ND (1.6)
All β	15	31	(22)	(19)	(20)	(18)	(20)	(20)	(21)	69	(17)
H-3	5.0	29	ND (3.6)	4.2	4.8	ND (3.0)	ND (3.1)	3.8	ND (2.8)	68	4.0
Sr-90	3.5	-	-	-	-	Under measurement	-	-	-	Under measurement	-

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

Sampling date	2013/9/3	2013/9/9
Sampling time	7:52 AM	8:46 AM
Cs-134	ND (1.2)	ND (1.2)
Cs-137	ND (1.0)	ND (0.90)
All β	ND (16)	ND (16)
H-3	ND (1.6)	Under measurement
Sr-90	-	-

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

**East side in the port, seawater (Bq/L)**

Sampling date	2013/6/26	2013/7/4	2013/7/9	2013/7/17	2013/7/22	2013/7/31	2013/8/5	2013/8/12	2013/8/19	2013/8/28	2013/9/3
Sampling time	2:22 PM	10:32 AM	10:34 AM	2:40 PM	11:41 AM	7:43 AM	11:58 AM	9:20 AM	7:30 AM	7:28 AM	8:00 AM
Cs-134	ND (2.4)	ND (2.3)	ND (2.0)	ND (1.7)	ND (2.3)	ND (1.6)	ND (1.4)	ND (1.8)	2.9	ND (1.1)	ND (1.3)
Cs-137	ND (2.4)	3.3	ND (2.4)	ND (2.5)	ND (2.1)	ND (2.4)	ND (2.0)	ND (1.9)	6.6	1.9	ND (1.0)
All β	33	40	ND (19)	ND (20)	ND (18)	ND (20)	ND (20)	ND (18)	74	ND (17)	ND (16)
H-3	14	44	ND (2.9)	7.0	ND (3.0)	ND (3.1)	ND (3.1)	ND (2.8)	67	6.6	ND (1.6)
Sr-90	Under measurement	-	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/9/9
Sampling time	8:54 AM
Cs-134	ND (2.1)
Cs-137	1.3
All β	ND (16)
H-3	Under measurement
Sr-90	-

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



**West side in the port, seawater (Bq/L)**

Sampling date	2013/6/26	2013/7/4	2013/7/9	2013/7/17	2013/7/22	2013/7/31	2013/8/5	2013/8/12	2013/8/19	2013/8/28	2013/9/3
Sampling time	2:25 PM	10:37 AM	10:38 AM	2:47 PM	11:50 AM	7:48 AM	12:02 PM	9:02 AM	7:33 AM	7:38 AM	8:49 AM
Cs-134	ND (2.5)	ND (2.2)	ND (2.0)	ND (2.2)	ND (2.2)	ND (1.5)	ND (1.8)	ND (2.0)	2.6	ND (1.1)	ND (1.3)
Cs-137	3.3 (2.6)	ND (2.6)	ND (1.9)	2.4 (2.2)	ND (2.2)	ND (1.9)	ND (2.4)	ND (2.3)	6.5	1.6	ND (1.2)
All β	43	60	ND (19)	ND (20)	ND (18)	ND (20)	ND (20)	ND (18)	57	ND (17)	ND (16)
H-3	26	37	4.7	20	ND (3.0)	6.3	4.2	4.8	59	5.3	ND (1.6)
Sr-90	Under measurement	-	-	-	-	-	-	-	-	-	-

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

Sampling date	2013/9/9
Sampling time	8:59 AM
Cs-134	1.2
Cs-137	2.8
All β	ND (16)
H-3	Under measurement
Sr-90	-

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

**North side in the port, seawater (Bq/L)**

Sampling date	2013/8/12	2013/8/19	2013/8/28	2013/9/3	2013/9/9
Sampling time	9:31 AM	7:36 AM	7:35 AM	8:53 AM	9:01 AM
Cs-134	ND (1.8)	ND (2.0)	ND (2.1)	ND (1.1)	ND (1.3)
Cs-137	ND (2.1)	4.7	1.8	ND (1.1)	1.1
All β	ND (21)	69	ND (17)	ND (16)	ND (16)
H-3	6.5	52	7.3	2.2	Under measurement
Sr-90	-	-	-	-	-

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

**South side in the port, seawater (Bq/L)**

Sampling date	2013/8/12	2013/8/19	2013/8/28	2013/9/3	2013/9/9
Sampling time	9:24 AM	7:27 AM	7:24 AM	7:57 AM	8:50 AM
Cs-134	ND (2.0)	2.1	1.1	ND (1.5)	ND (0.81)
Cs-137	ND (2.3)	4.6	3.4	ND (1.3)	1.1
All β	ND (18)	79	ND (17)	ND (16)	ND (16)
H-3	3.4	60	3.2	ND (1.6)	Under measurement
Sr-90	-	-	-	-	-

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

**North side of the north breakwater (Bq/L)**

Sampling date	2013/8/14	2013/8/21	2013/8/27	2013/9/3
Sampling time	8:17 AM	8:09 AM	8:14 AM	8:39 AM
Cs-134	ND (1.5)	ND (1.1)	ND (0.66)	ND (0.88)
Cs-137	ND (1.4)	ND (1.4)	ND (0.49)	ND (0.58)
All β	ND (18)	ND (20)	ND (17)	ND (16)
H-3	4.7	ND (2.9)	ND (2.0)	ND (1.8)
Sr-90	-	-	-	-

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

**East side of the port entrance (Bq/L)**

Sampling date	2013/8/14	2013/8/21	2013/8/27	2013/9/3
Sampling time	8:21 AM	8:16 AM	8:20 AM	8:39 AM
Cs-134	ND (1.1)	ND (1.0)	ND (0.84)	ND (0.63)
Cs-137	ND (1.1)	ND (1.3)	ND (0.69)	ND (0.69)
All β	ND (18)	ND (20)	ND (17)	ND (16)
H-3	ND (2.9)	ND (2.9)	ND (2.0)	ND (1.8)
Sr-90	-	-	-	-

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

**South side of the south breakwater (Bq/L)**

Sampling date	2013/8/14	2013/8/21	2013/8/27	2013/9/3
Sampling time	8:09 AM	8:01 AM	8:07 AM	8:31 AM
Cs-134	ND (1.5)	ND (1.0)	ND (0.69)	ND (0.43)
Cs-137	ND (1.1)	ND (1.4)	ND (0.68)	ND (0.66)
All β	ND (18)	ND (20)	ND (17)	ND (16)
H-3	ND (2.9)	ND (2.9)	ND (2.0)	ND (1.8)
Sr-90	-	-	-	-

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