

<Reference>

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

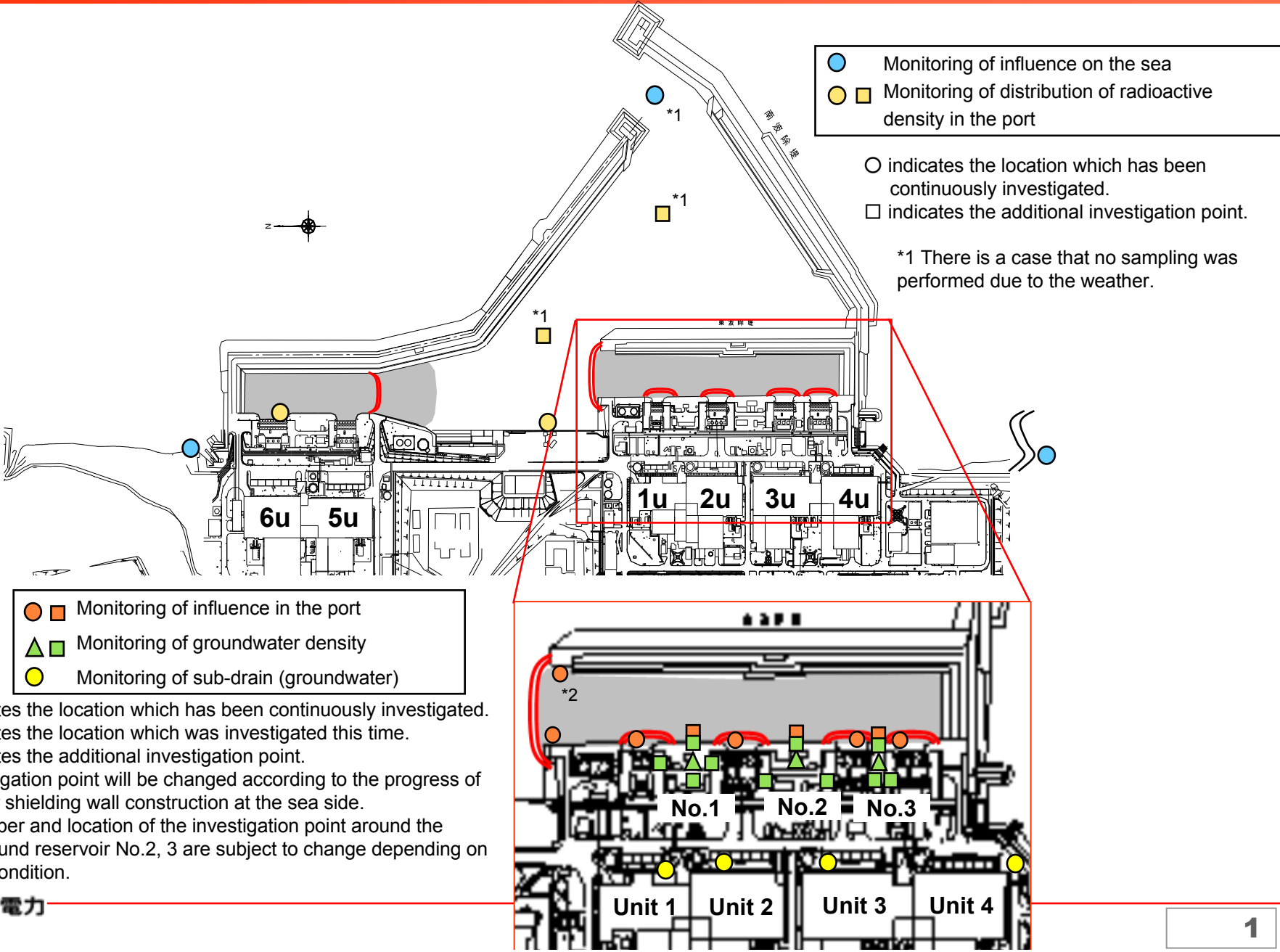
July 19, 2013

Tokyo Electric Power Company



東京電力

Monitoring Plan (Sampling Locations)



Monitoring Plan (Analysis Item, Frequency)

Area	Sampling location	Current analysis item and frequency				Contents of the change ⁴			
		γ ray	Tritium (3H)	All β	Sr-90	γ ray	H-3	All β	Sr-90
Around Unit 1-4 water intake channel	Between the water intake channel of Unit 1 and Unit 2 (surface layer)	-	-	-	-	1 time a week (3 times a week ⁵)	1 time a week (3 times a week ⁵)	1 time a week (3 times a week ⁵)	1 time a month
	Between the water intake channel of Unit 1 and Unit 2 (lower layer)	-	-	-	-				
	Inside the silt fence of Unit 1	1 time a day	-	-	-	1 time a day	1 time a week	1 time a week	1 time a month
	Inside the silt fence of Unit 2								
	North side of Unit 1-4 water intake channel ¹	1 time a day	1 time a month	1 time a week	2 times a month	1 time a day	1 time a week	1 time a week	1 time a month ⁶
	Outside the silt fence of Unit 1	1 time a day	-	-	-	1 time a day	-	-	-
	Outside the silt fence of Unit 2								
	Between the water intake channel of Unit 2 and Unit 3 (surface layer)	-	-	-	-	1 time a week	1 time a week	1 time a week	1 time a month
	Between the water intake channel of Unit 3 and Unit 4 (surface layer)	-	-	-	-	1 time a week	1 time a week	1 time a week	1 time a month
	Inside the silt fence of Unit 3	1 time a day	-	-	2 times a month	1 time a day	1 time a week	1 time a week	1 time a month ⁶
	Inside the silt fence of Unit 4								
	Outside the silt fence of Unit 3	1 time a day	-	-	-	1 time a day	-	-	-
	Outside the silt fence of Unit 4								
South side of Unit 1-4 water intake channel									
In the port	In front of shallow draft quay	1 time a day	-	-	-	1 time a day	1 time a week	1 time a week	1 time a month
	In front of Unit 6 water intake channel	1 time a week	-	-	-	1 time a week	1 time a week	1 time a week	-
	West side in the port ²	-	-	-	-	1 time a week	1 time a week	1 time a week	-
	East side in the port ²								
	Port entrance ²	Non-regular ³	-	-	-	1 time a week	1 time a week	1 time a week	1 time a month
Around the north/south discharge channel	North side of Unit 5,6 discharge channel	1 time a day	1 time a month	1 time a month	1 time a month	1 time a day	1 time a week	1 time a week	1 time a month
	Around the south discharge channel	1 time a day	1 time a month	1 time a day	1 time a month	1 time a day	1 time a week	1 time a day	1 time a month
Land area (sea side of Unit 1-4 Turbine Building)	Underground reservoir No.1 (includes additional boring)	-	-	-	-	1 time a week (2 times a week ⁵)	1 time a week (2 times a week ⁵)	1 time a week (2 times a week ⁵)	1 time a month
	Underground reservoir No.2 (includes additional boring)	-	-	-	-	1 time a week	1 time a week	1 time a week	Only for the first time
	Underground reservoir No.3 (includes additional boring)	-	-	-	-				
	Unit 1 sub-drain	3 times a week	2 times a year	2 times a year	2 times a year	3 times a week	2 times a year	2 times a year	2 times a year
	Unit 2 sub-drain	3 times a week	1 time a month	1 time a month	1 time a month	3 times a week	1 time a month	1 time a month	1 time a month
	Unit 3 sub-drain	3 times a week	2 times a year	2 times a year	2 times a year	3 times a week	2 times a year	2 times a year	2 times a year
Unit 4 sub-drain									

←Measurement of tritium (3H) and all β will be performed “3 times a week” for a while due to the rising trend of tritium (3H).

←Measurement of γ ray, tritium (3H) and all β will be performed “2 times a week” for a while at the underground reservoir No.2 due to the rising trend of all β .

*1 Sampling point will be changed according to the progress of the water shielding wall construction at the sea side.

*2 There is a case that we cannot sample due to the weather.

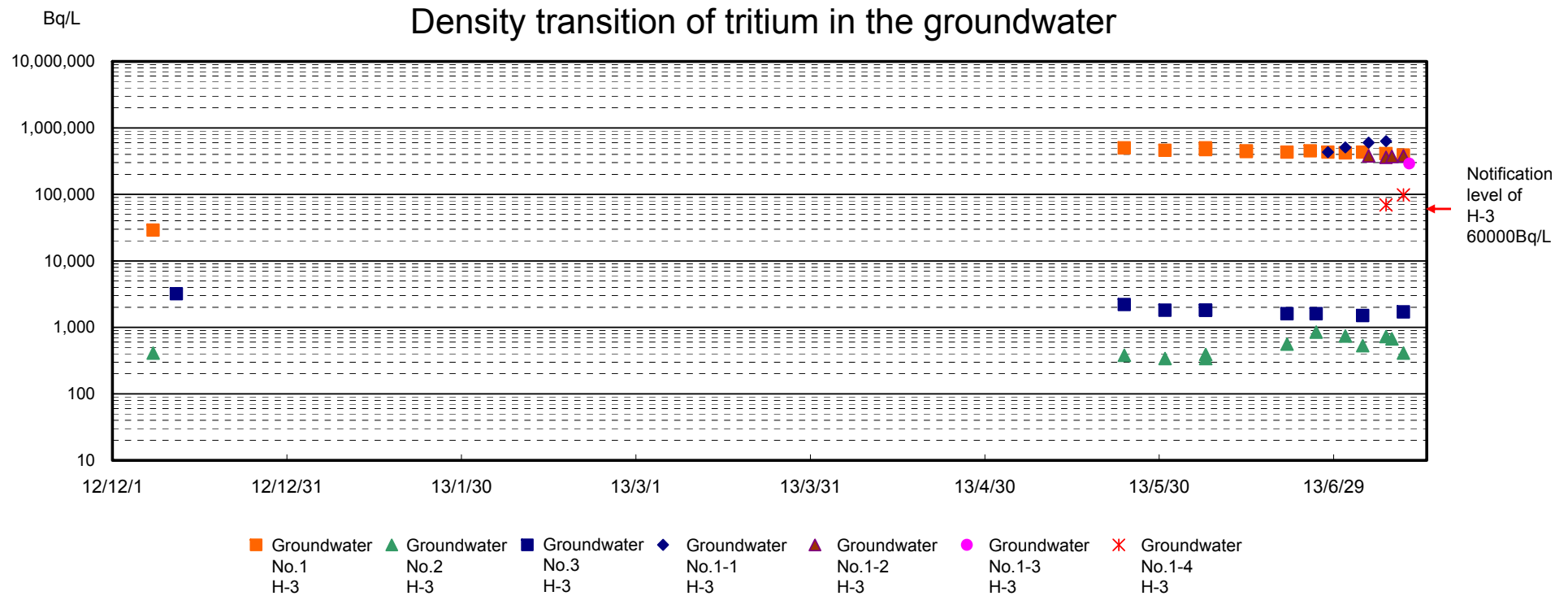
*3 Sampling and measurement will be performed in case vessel enters the water intake channel.

*4 Measurement of γ ray, 3H and all β will be performed in order to monitor leakage to the sea. Measurement of strontium will be performed in order to compare with the notification level and to evaluate the exposure dose.

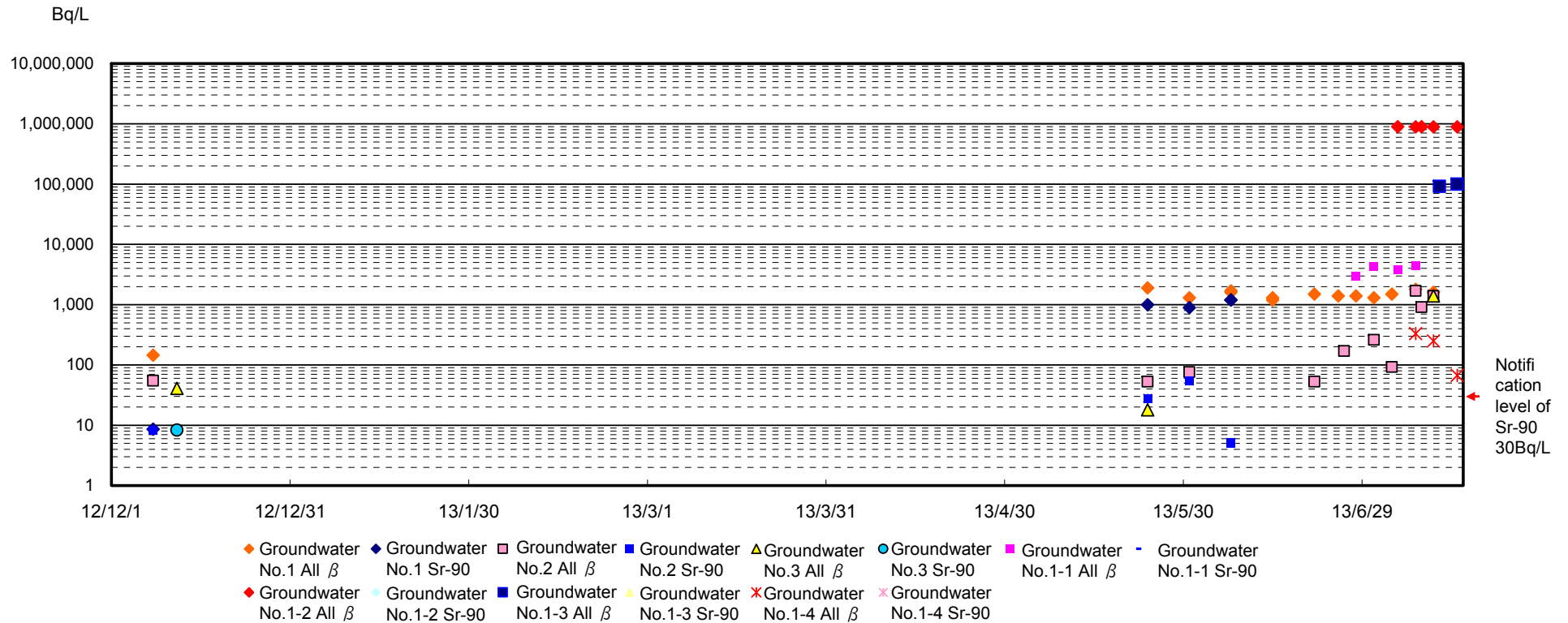
*5 Monitoring will be enhanced until ground improvement at the bank protection between the water intake channel of Unit 1 and Unit 2 will be finished.

*6 All β will be substituted for the monitoring of strontium taking analysis capacity into consideration.

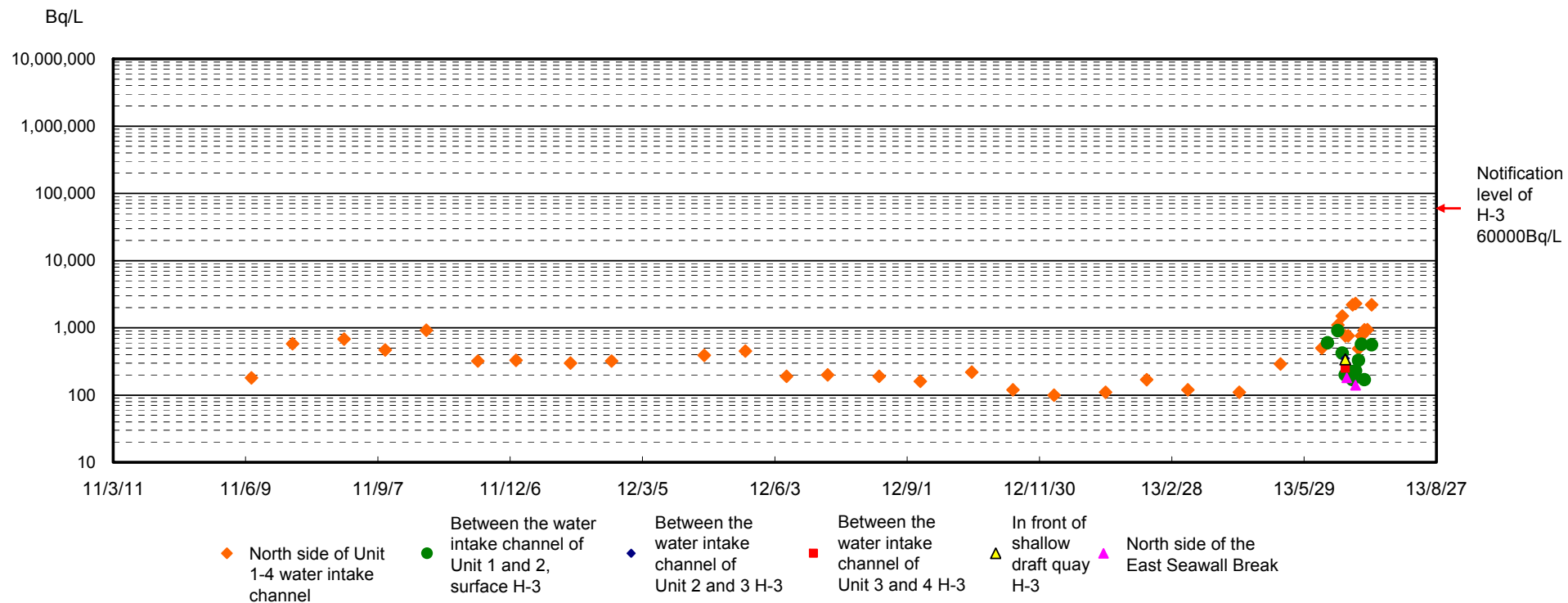
Density Transition of Tritium in the Groundwater



Density Transition of All β and Strontium in the Groundwater

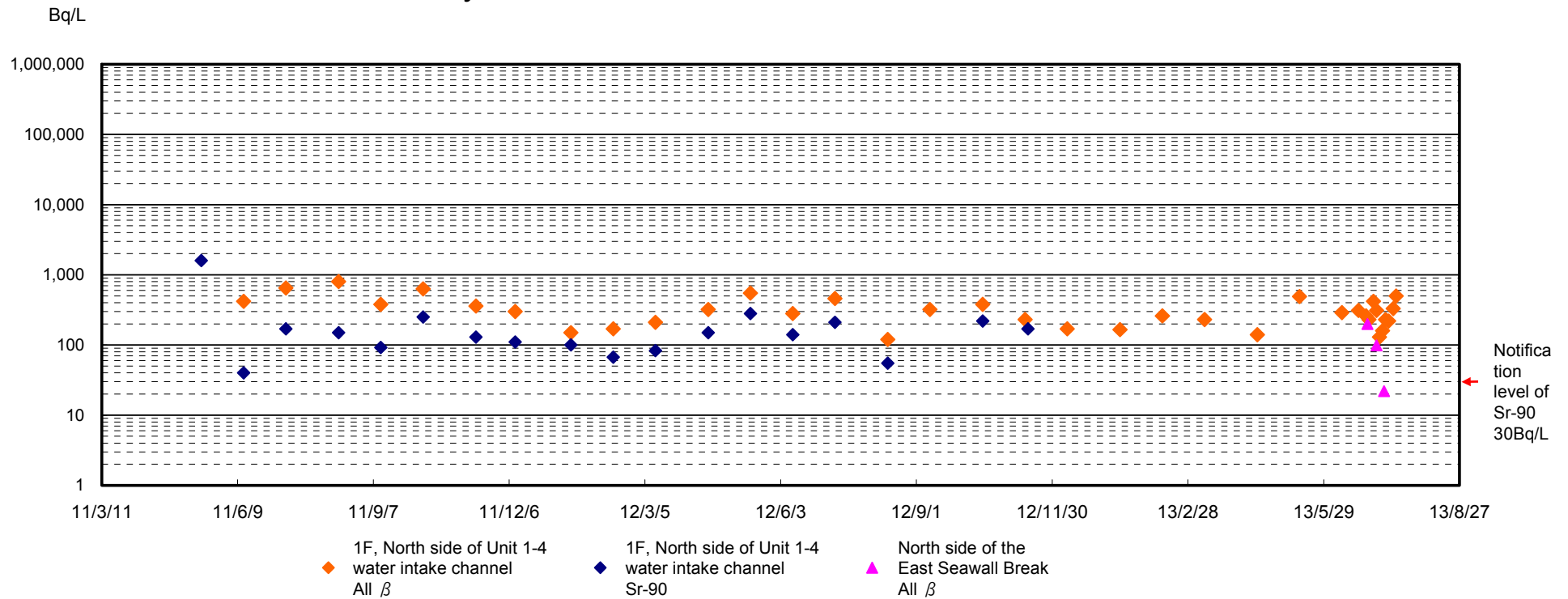


Density Transition of Tritium in the Seawater



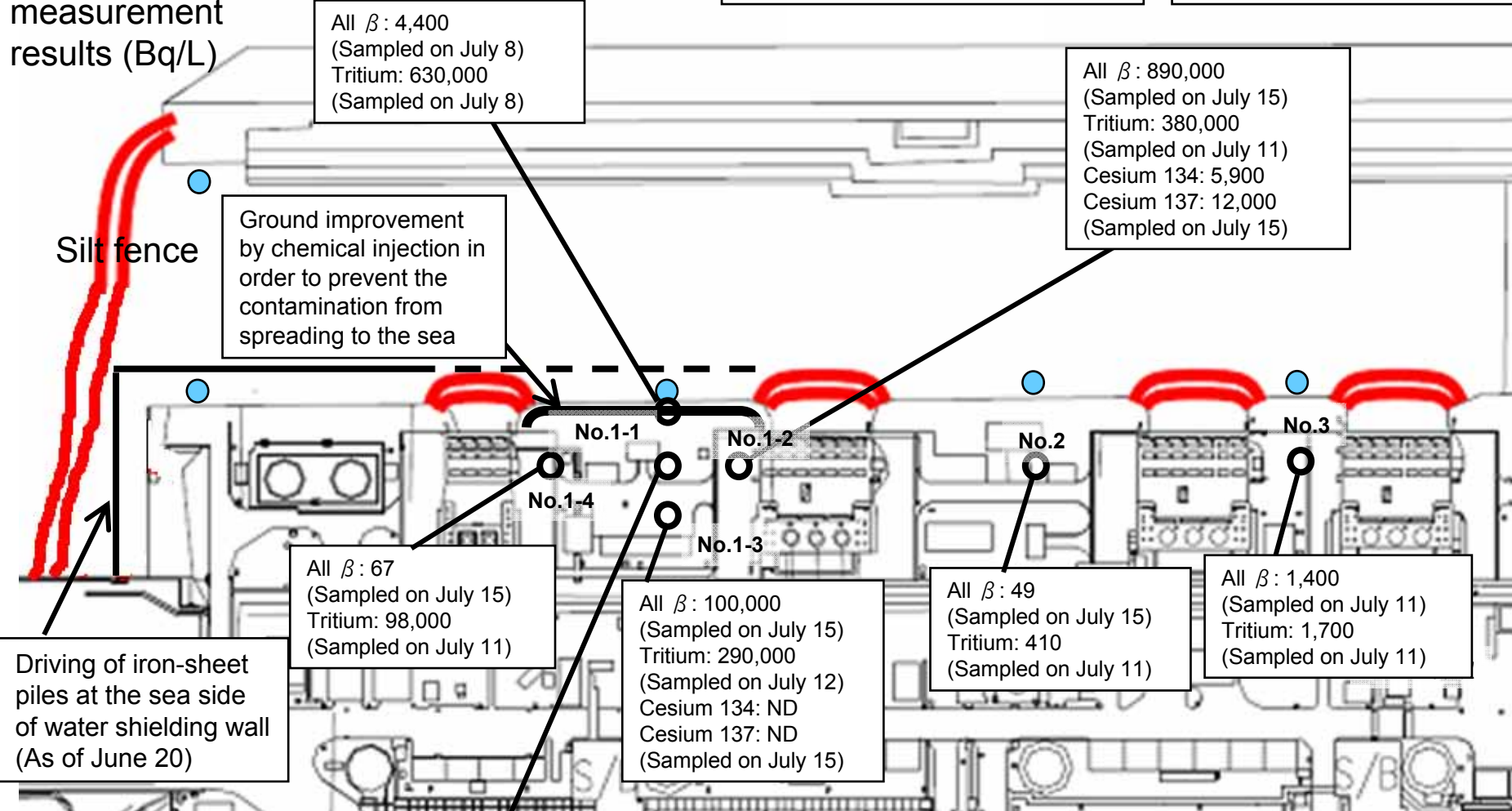
Density Transition of All β and Strontium in the Seawater

Density transition of all β and strontium in the seawater



Measurement Results of Groundwater Obtained at the East Side of the Turbine Building

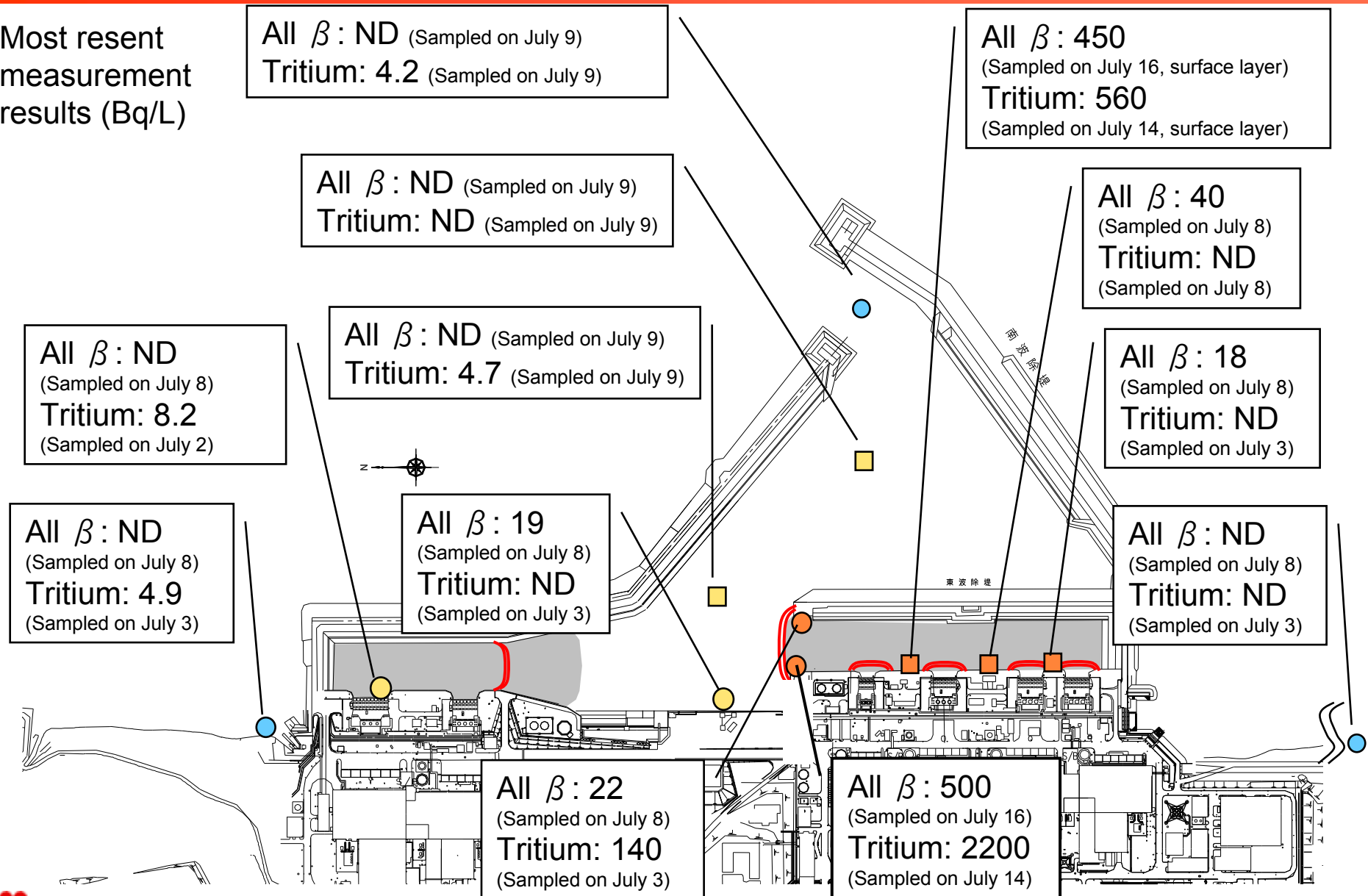
Most recent measurement results (Bq/L)



Groundwater observation hole (No.1) All β : 1,500 (Sampled on July 15)
(400,000 - 500,000Bq/L of high density tritium was detected) Tritium: 390,000 (Sampled on July 11)

Measurement Results of the Seawater Inside/Outside the Port

Most recent measurement results (Bq/L)



[Reference] Measurement Results of the Groundwater Observation Hole No.1 (Includes Additional Sampling)

Groundwater observation hole No.1 (Bq/L)

Sampling date	2012/12/8 ^{*2}	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	2013/7/4	2013/7/8	2013/7/11	2013/7/15
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	11:50 AM	1:30 PM	12:51 PM	1:00 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	ND (0.64)	ND (0.50)	ND (0.61)	ND (0.43)
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	ND (0.47)	ND (0.47)	1.0	ND (0.49)
Ru-106	ND	26	19	19	21	18	19	16	20	16	ND	24	16	15	18
All β	150	1,900	1,300	1,700	1,600	1,200	1,300	1,500	1,400	1,400	1,300	1,500	1,800	1,600	1,500
H-3	29,000	500,000	460,000	500,000	470,000	450,000	440,000	430,000	450,000	430,000	420,000	430,000	410,000	390,000	Under measurement
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.

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
All β	3,000	4,300	3,800	4,400
H-3	430,000	510,000	600,000	630,000
Sr-90	Under measurement	—	—	—

*3 Sampling was not performed due to the chemical injection for ground improvement since July 10.

[Reference] Measurement Results of the Groundwater Observation Hole No.1 (Includes Additional Sampling)

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

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

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

Sampling date	2013/7/12	2013/7/15
Sampling time	12:20 PM	12:30 PM
Cs-134	ND (0.66)	ND (0.46)
Cs-137	1.4	ND (0.54)
Ru-106	16	14
Mn-54	-	-
Co-60	-	-
Sb-125	1.4	ND
All β	92,000	100,000
H-3	290,000	Under measurement
Sr-90	Under measurement	-

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

Sampling date	2013/7/8	2013/7/11	2013/7/15
Sampling time	3:30 PM	12:25 PM	11:55 AM
Cs-134	1.5	0.91	ND (0.41)
Cs-137	3.6	2	0.67
Ru-106	ND	ND	ND
Mn-54	ND	-	-
Co-60	ND	-	-
Sb-125	ND	ND	ND
All β	330	250	67
H-3	69,000	98,000	Under measurement
Sr-90	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.

[Reference] Measurement Results of the Groundwater Observation Hole No.2 and No.3

Groundwater observation hole No.2 (Bq/L)

Sampling date	2012/12/8*2	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	2013/7/11	2013/7/15
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	11:30 AM	10:50 AM
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	ND (0.47)	ND (0.37)
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	1.2	ND (0.44)
Ru-106	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	1,400	49
H-3	410	380	340	390	340	560	850	740	530	730	670	410	Under measurement
Sr-90	8.2	28	54	5.2	5.1	Under measurement	–	–	–	–	–	–	–

Groundwater observation hole No.3 (Bq/L)

Sampling date	2012/12/12*2	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
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
Cs-134	ND (0.60)	0.87	1.6	0.9	0.5	1.7	0.96	1.5	1.9
Cs-137	ND (0.79)	1.4	2.7	2.0	1.6	2.9	2.9	2.8	4.8
Ru-106	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
H-3	3,200	2,200	1,800	1,800	1,800	1,600	1,600	1,500	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.

[Reference] Measurement Results of between the Water Intake Channel of Unit 1 and Unit 2

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

Sampling date	2013/6/14	2013/6/21	2013/6/24	2013/6/26 Surface layer	2013/6/28 Surface layer	2013/7/1 Surface layer	2013/7/3 Surface layer	2013/7/5 Surface layer	2013/7/7 Surface layer	2013/7/9 Surface layer	2013/7/11 Surface layer	2013/7/14 Surface layer	2013/7/16 Surface layer
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	6:20 AM	6:16 AM
Cs-134	–	9.4	–	6.2	8.5	4.9	5.3	5.6	6.8	ND (2.1)	5.6	7.9	11
Cs-137	–	19	–	11	19	11	9.3	12	15	3.4	13	20	25
All β	–	330	–	260	180	200	130	150	180	65	110	200	310
H-3	600	910	420	200	230	170	230	330	570	170	ND (120)	560	Under measurement
Sr-90	–	Under measurement	–	–	–	–	–	–	–	–	–	–	–

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

Sampling date	2013/6/26 Lower layer	2013/6/28 Lower layer	2013/7/1 Lower layer	2013/7/3 Lower layer	2013/7/5 Lower layer	2013/7/7 Lower layer	2013/7/9 Lower layer	2013/7/11 Lower layer	2013/7/14 Lower layer	2013/7/16 Lower layer
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
Cs-134	6.2	7.5	5.7	3.0	6.8	4.9	2.0	2.6	9.6	7.5
Cs-137	9.3	17	14	8.9	14	6.9	3.6	8.0	18	13
All β	210	180	180	120	180	220	51	58	180	450
H-3	360	340	ND (120)	ND (120)	170	210	ND (120)	500	460	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.

[Reference] Measurement Results of between the Water Intake Channel of Unit 2 and Unit 3, Unit 3 and Unit 4

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

Sampling date	2013/6/26	2013/7/3	2013/7/8	2013/7/15
Sampling time	6:51 AM	6:30 AM	5:56 AM	5:53 AM
Cs-134	8.8	6.0	4.6	9.3
Cs-137	18	14	15	18
All β	220	140	40	250
H-3	350	ND (120)	ND (120)	Under measurement
Sr-90	Under measurement	—	—	—

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

Sampling date	2013/6/26	2013/7/3	2013/7/8	2013/7/15
Sampling time	6:47 AM	6:38 AM	6:06 AM	6:00 AM
Cs-134	9.9	7.3	2.6	12.0
Cs-137	23	16	7.0	26
All β	230	130	18	260
H-3	250	ND (120)	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.

[Reference] Measurement Results of Inside the Silt Fence at Unit 1-4

Inside the silt fence at Unit 1 (Bq/L)

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15
Sampling time	6:23 AM	6:18 AM	6:13 AM	5:45 AM	5:43 AM
Cs-134	6.9	8.9	5.4	3.4	17
Cs-137	15	20	13	12	37
All β	160	170	140	89	320
H-3	480	530	420	180	Under measurement
Sr-90	Under measurement	—	—	—	—

Inside the silt fence at Unit 2 (Bq/L)

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15
Sampling time	6:29 AM	6:24 AM	6:27 AM	5:51 AM	5:48 AM
Cs-134	7.1	11	16	ND (1.8)	14
Cs-137	14	23	34	5.1	27
All β	230	260	220	26	250
H-3	290	320	250	ND (120)	Under measurement
Sr-90	Under measurement	—	—	—	—

Inside the silt fence at Unit 3 (Bq/L)

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15	2013/7/16
Sampling time	6:33 AM	6:30 AM	6:36 AM	6:01 AM	5:59 AM	6:32 AM
Cs-134	64	59	32	8.3	350	190
Cs-137	110	120	68	16	770	380
All β	270	310	230	72	1,000	610
H-3	220	190	ND (120)	ND (120)	Under measurement	—
Sr-90	Under measurement	—	—	—	—	—

Inside the silt fence at Unit 4 (Bq/L)

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15
Sampling time	6:37 AM	6:35 AM	6:42 AM	6:04 AM	6:02 AM
Cs-134	31	34	17	46	43
Cs-137	70	65	36	93	89
All β	250	220	160	130	300
H-3	ND (210)	260	ND (120)	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.

[Reference] Measurement Results of the North Side of the Water Intake Channel

North side of Unit 1-4 water intake channel (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	1500	760	760	2,200
Sr-90	—	—	—	—	—	—	Under measurement	—	—	—	—

North side of the East Seawall Break (Bq/L)

Sampling date	2013/7/3	2013/7/5	2013/7/7	2013/7/9	2013/7/11	2013/7/14	2013/7/16	Sampling date	2013/6/27	2013/7/3	2013/7/8	2013/7/15
Sampling time	6:08 AM	6:17 AM	6:11 AM	6:09 AM	6:46 AM	6:11 AM	6:08 AM	Sampling time	9:50 AM	6:50 AM	6:17 AM	6:12 AM
Cs-134	13	6.3	8.0	11	12	14	19	Cs-134	6.1	3.3	ND (1.4)	7.7
Cs-137	23	17	18	24	29	32	43	Cs-137	13	8.2	ND (1.7)	18
All β	310	130	160	230	220	330	500	All β	200	99	22	250
H-3	2,300	490	760	930	940	2,200	Under measurement	H-3	180	140	ND (120)	Under measurement
Sr-90	—	—	—	—	—	—	—	Sr-90	Under measurement	—	—	—

[Reference] Measurement Results of Inside the Port

In front of shallow draft quay (Bq/L)

Sampling date	2013/6/26	2013/7/3	2013/7/8	2013/7/15
Sampling time	6:06 AM	6:03 AM	5:31 AM	5:30 AM
Cs-134	ND (1.8)	1.9	ND (1.8)	ND (2.3)
Cs-137	2.3	5.6	5.1	5.7
All β	ND (18)	40	19	35
H-3	340	ND (120)	ND (120)	Under measurement
Sr-90	Under measurement	—	—	—

In front of Unit 6 water intake

Sampling date	2013/6/25	2013/7/2	2013/7/8	2013/7/15
Sampling time	7:15 AM	6:25 AM	6:30 AM	6:15 AM
Cs-134	ND (3.3)	ND (1.7)	ND (2.2)	ND (1.6)
Cs-137	ND (2.1)	2.6	ND (1.9)	3.1
All β	ND (18)	20	ND (17)	ND (22)
H-3	6.0	8.2	ND (3.1)	Under measurement
Sr-90	—	—	—	—

West side in the port (Bq/L)

Sampling date	2013/6/26	2013/7/4	2013/7/9	2013/7/17
Sampling time	2:25 PM	10:37 AM	10:38 AM	2:47 PM
Cs-134	ND (2.5)	ND (2.2)	ND (2.0)	ND (2.2)
Cs-137	3.3	ND (2.6)	ND (1.9)	2.4
All β	43	60	ND (19)	ND (20)
H-3	26	37	4.7	Under measurement
Sr-90	Under measurement	—	—	—

East side in the port (Bq/L)

Sampling date	2013/6/26	2013/7/4	2013/7/9	2013/7/17
Sampling time	2:22 PM	10:32 AM	10:34 AM	2:40 PM
Cs-134	ND (2.4)	ND (2.3)	ND (2.0)	ND (1.7)
Cs-137	ND (2.4)	3.3	ND (2.4)	ND (2.5)
All β	33	40	ND (19)	ND (20)
H-3	14	14	ND (2.9)	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.

[Reference] Measurement Results of Inside/Outside the Port

Port Entrance (Bq/L)

Sampling date	2013/6/20	2013/6/26	2013/7/4	2013/7/9	2013/7/17
Sampling time	1:18 PM	2:19 PM	3:19 PM	10:29 AM	12:20 PM
Cs-134	ND (1.3)	ND (1.9)	ND (1.7)	ND (2.0)	ND (2.2)
Cs-137	ND (1.2)	3.7	ND (2.0)	ND (2.6)	ND (2.0)
All β	15	31	ND (22)	ND (19)	ND (20)
H-3	5.0	29	ND (3.6)	4.2	Under measurement
Sr-90	Under measurement	—	—	—	—

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
Sampling time	7:25 AM	11:25 AM	6:55 AM	6:15 AM	6:05 AM
Cs-134	1.8	ND (1.9)	ND (1.2)	1.4	ND (1.2)
Cs-137	2.1	3.3	1.2	2.5	1.5
All β	—	ND (22)	ND (17)	ND (19)	ND (22)
H-3	—	8.6	4.9	3.7	Under measurement
Sr-90	—	Under measurement	—	—	—

Around the south discharge channel (Bq/L)

Sampling date	2013/6/21	2013/6/26	2013/7/3	2013/7/8	2013/7/15
Sampling time	7:15 AM	11:15 AM	5:10 AM	5:15 AM	10:45 AM
Cs-134	ND (1.0)	ND (1.1)	ND (1.2)	ND (0.93)	ND (1.2)
Cs-137	2.0	ND (1.3)	ND (1.2)	ND (1.1)	3.0
All β	ND (19)	ND (22)	ND (18)	ND (18)	ND (21)
H-3	—	ND (2.9)	ND (3.0)	ND (3.1)	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.

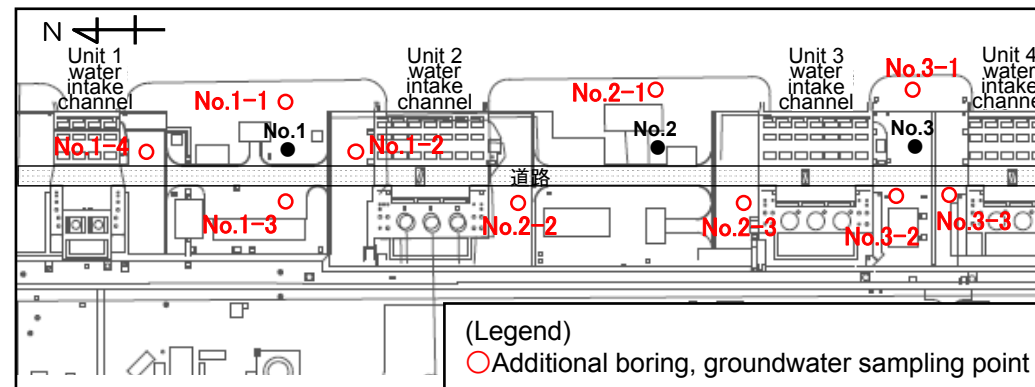
Construction Schedule of Additional Observation Holes

Progress status

Boring No.	Completion date of drilling	Commencement date of sampling
1-1	June 27 (Thu)	June 28 (Fri)
1-2	July 3 (Wed)	July 5 (Fri)
1-3	July 11 (Thu)	July 12 (Fri)
1-4	July 6 (Sat)	July 8 (Mon)
2-1	Being drilled	Not yet determined
3-1	July 18 (Thu)	Scheduled on July 21 (Sun)

* Boring No.1-5, 2-2, 2-3, 3-2 and 3-3 are under consideration, including the location.

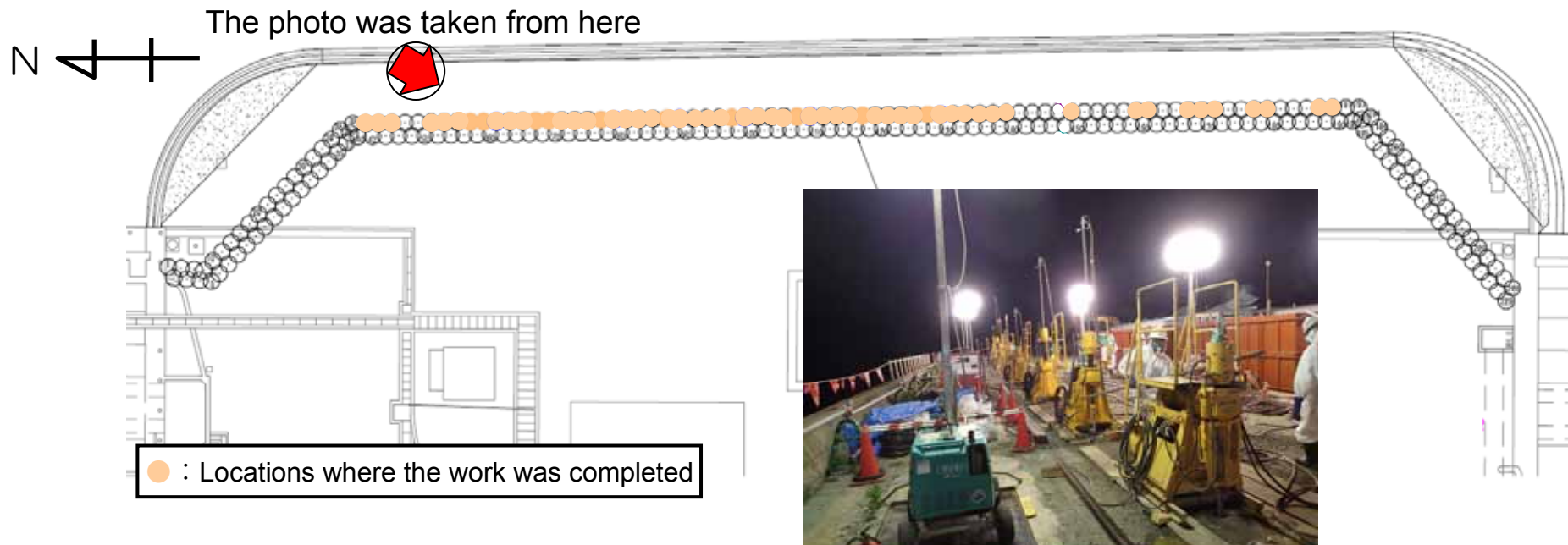
* Water sampling is performed 2 times a week since July 1 (Mon).



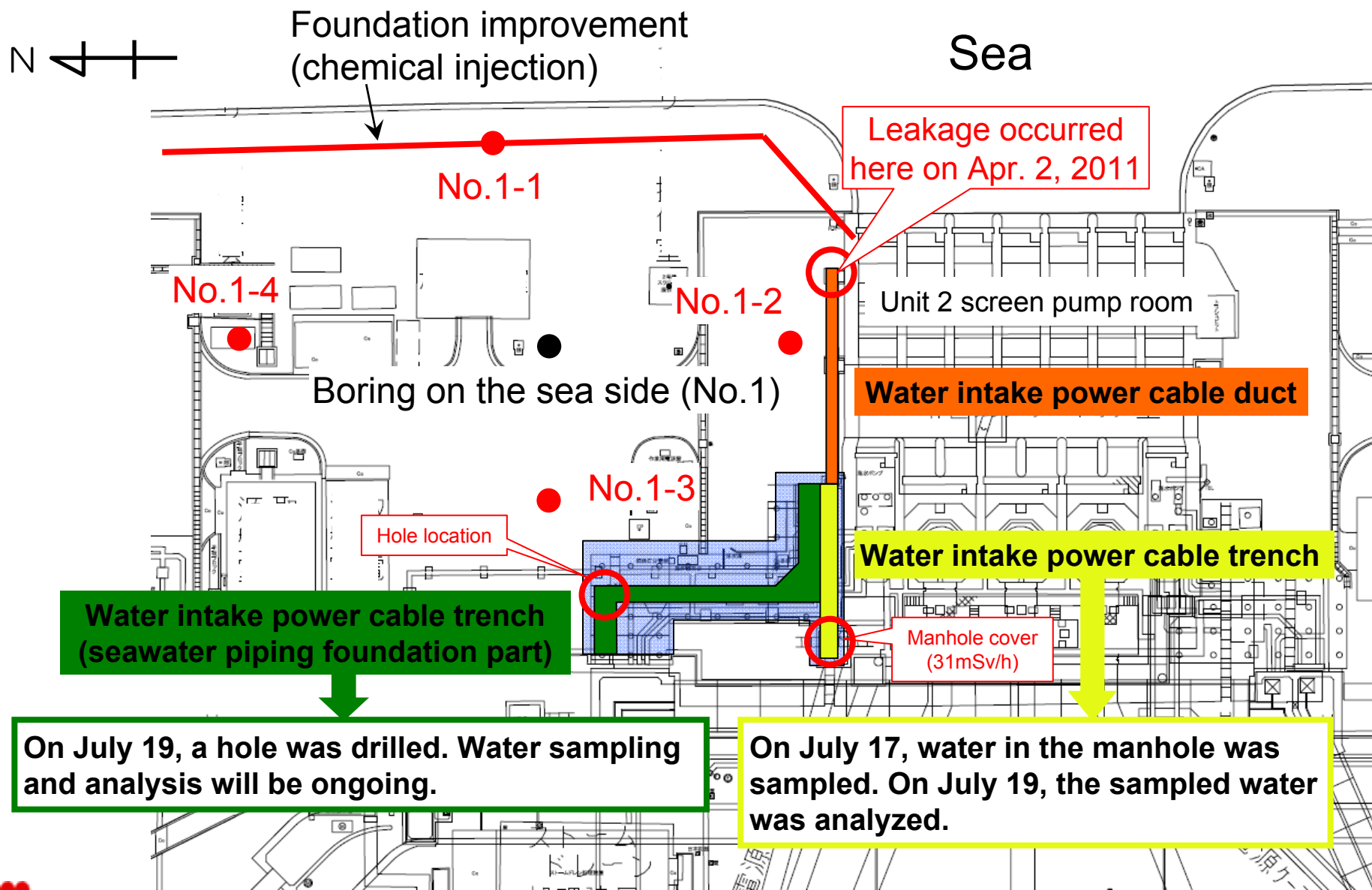
[Tentative distribution of the observation holes]

Progress Status of Bank Protection Foundation Improvement Work between Water Intakes of Units 1 and 2

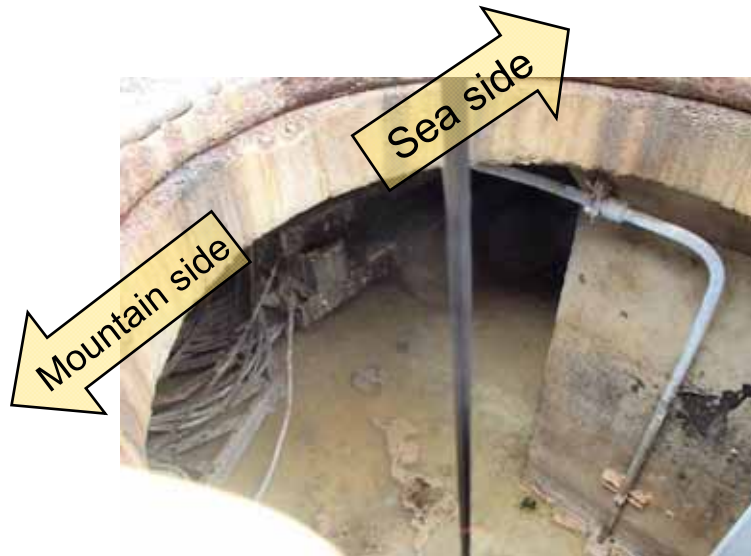
- The foundation improvement was started on July 8, and is currently underway by use of eight foundation improvement machines. (The work starts at 7:00 PM each day and ends at 7:00 AM next day.)
- By the morning of July 19, the work was completed in 58 locations on the sea side line. (The work is planned to cover a total of 231 locations (117 on the sea side line and 114 on the mountain side line))
- We will increase the number of foundation improvement machines to 10 as soon as the additional machines are ready.



[Conduction of Inspections of Water Intake Power Cable Trenches]



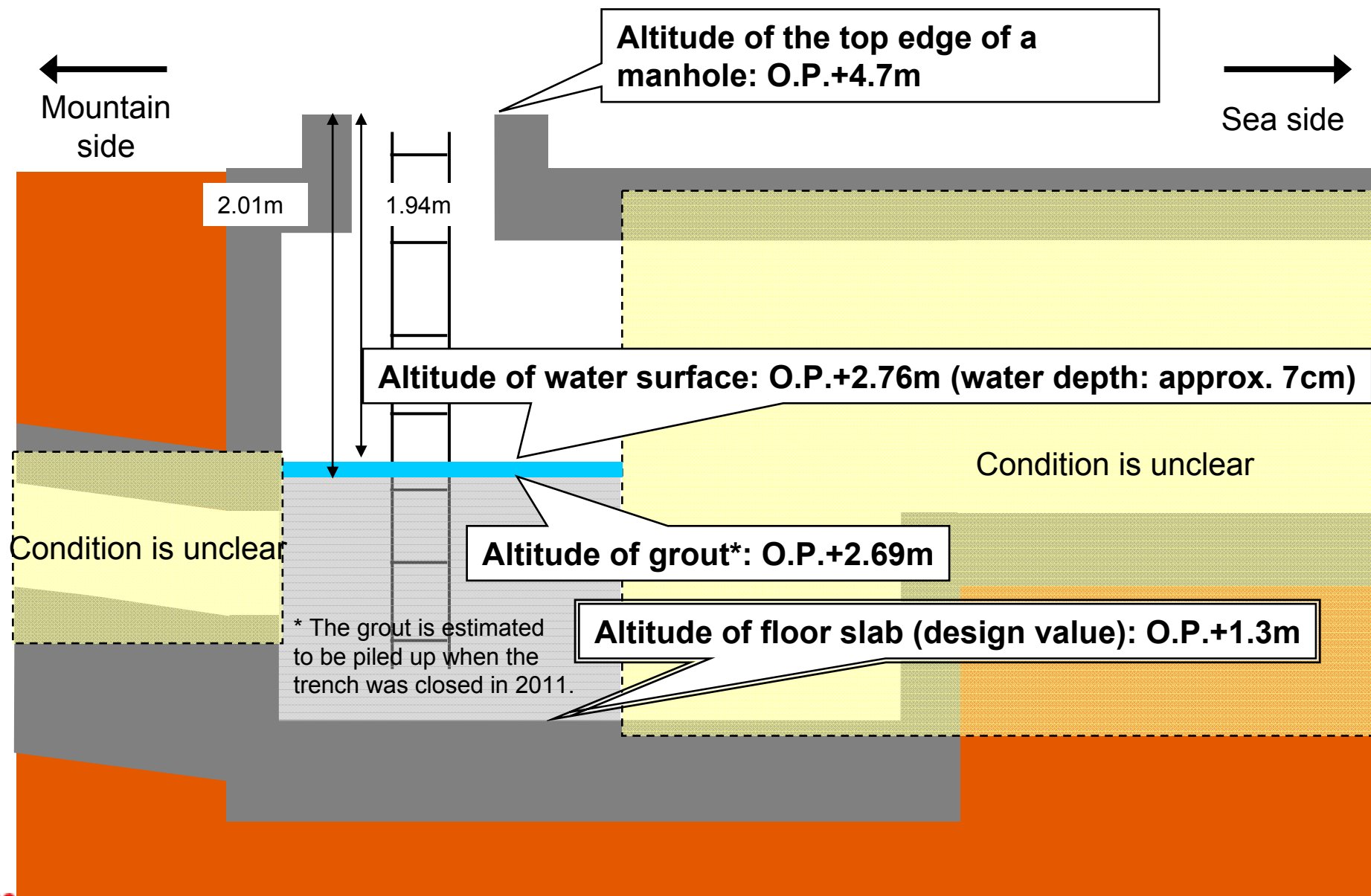
Sampling Survey Method



- Survey: July 17, 2013
- Analysis: July 19, 2013
- A water sample dipper was in use
- Maximum exposure dose = 0.14mSv/person



Condition Inside the Water Intake Power Cable Trench (Image)



Sampling Survey Results

- Analysis results of main γ nuclides and all β at Unit 2 water intake power cable trench

Location	Saline (ppm)	Cs-134 (Bq/cm ³)	Cs-137 (Bq/cm ³)	All β (Bq/cm ³)
Unit 2 water intake power cable trench	70	1.2×10^4	2.4×10^4	2.3×10^4

- Analysis results of main γ nuclides and all β at Unit 3 vertical shaft A

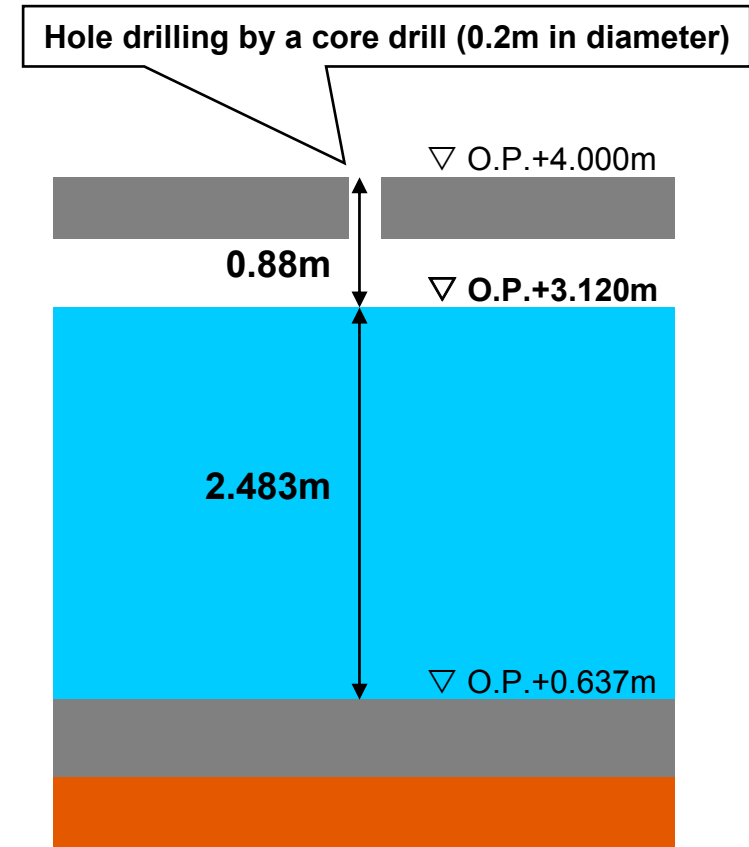
Location (Water depth)	Saline (ppm)	Cs-134 (Bq/cm ³)	Cs-137 (Bq/cm ³)	All β (Bq/cm ³)
Unit 3 vertical shaft (1m)	11,000	5.0×10^4	1.0×10^5	6.7×10^5
Unit 3 vertical shaft (7m)	7,500	3.4×10^4	6.9×10^4	5.7×10^5
Unit 3 vertical shaft (13m)	7,000	3.1×10^4	6.2×10^4	5.3×10^5

- Analysis of tritium will be ongoing.

Drilling Condition of a Hole of the Water Intake Power Cable Trench (Seawater Piping Foundation Part)



Cross-section of the trench of which the hole was drilled



* Altitude of the structure is displayed in design value.

■ Water sampling and sampling survey will be ongoing.