

FY2024 Miyagi Prefecture Survey Results

[Outline of results]

(1) Water

Rivers

Radioactive cesium (Cs-134, Cs-137): ND at all measurement points

Lakes and reservoirs

Radioactive cesium (Cs-134, Cs-137): ND at all measurement points

Coastal areas

Radioactive cesium (Cs-134, Cs-137): ND at all measurement points

(2) Sediments

Rivers

Cs-134: ND - 11 Bq/kg (dry)

Cs-137: ND - 760 Bq/kg (dry)

Lakes and reservoirs

Cs-134: ND - 8.6 Bq/kg (dry)

Cs-137: 1.2 - 660 Bq/kg (dry)

Coastal areas

Cs-134: ND at all measurement points

Cs-137: ND - 290 Bq/kg (dry)

(3) Surrounding Environment

(a) Soil

Rivers

Cs-134: ND - 19 Bq/kg (dry)

Cs-137: ND - 1,100 Bq/kg (dry)

Lakes and reservoirs

Cs-134: ND - 24 Bq/kg (dry)

Cs-137: 7.3 - 1,500 Bq/kg (dry)

(b) Ambient dose rate

Rivers

0.03 - 0.12 μ Sv/h

Lakes and reservoirs

0.03 - 0.13 μ Sv/h

Miyagi River(Water) 1/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks		
	Water Area	Location	Municipality					General items											Activity concentration(Bq/L)	
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137			
1	Shishiori River	Kinzan Bridge	Kesenuma City	2024/5/16	Light Rain	21.0	0.2	13.4	0.0	Colourless	None	>100	14.4	2	0.2	< 0.58	< 0.69			
				2024/8/23	Cloudy	27.3	0.1	17.4	0.0	Colourless	None	>100	14.8	1	0.2	< 0.52	< 0.58			
2024/11/18		Cloudy		8.6	0.1	10.5	0.0	Colourless	None	>100	16.0	<1	0.2	< 0.67	< 0.54					
2025/1/7		Sunny		7.6	0.1	5.9	0.0	Colourless	None	>100	15.3	<1	0.1	< 0.56	< 0.48					
2	Shishiori River	Namiita Bridge	Kesenuma City	2024/5/16	Cloudy	20.7	0.7	18.3	0.0	Grayish greenish yellow	Faint sewage	>100	1,670	3	0.9	< 0.58	< 0.64			
				2024/8/23	Cloudy	27.5	0.4	21.7	0.0	Grayish yellowish green	Faint sewage	>100	838	5	1.9	< 0.52	< 0.48			
2024/11/18		Cloudy		9.5	0.5	15.4	0.0	Grayish yellow green	None	>100	4,090	3	1.3	< 0.45	< 0.61					
2025/1/7		Sunny		10.7	1.3	11.1	0.0	Light grayish yellow green	None	>100	2,860	<1	0.7	< 0.51	< 0.61					
3	Okawa River	Tateyama-ohashi Bridge	Kesenuma City	2024/5/17	Cloudy	16.2	0.3	14.5	0.0	Light grayish yellow	None	>100	12.9	4	1.6	< 0.62	< 0.55			
				2024/8/23	Cloudy	27.0	0.4	21.3	0.0	Light grayish yellow green	None	>100	13.2	2	0.9	< 0.54	< 0.51			
2024/11/18		Sunny		9.2	0.1	12.2	0.0	Light grayish reddish yellow	None	>100	21.6	1	1.3	< 0.47	< 0.65					
2025/1/7		Sunny		11.4	0.5	7.4	0.0	Light grayish reddish yellow	None	>100	15.7	2	2.5	< 0.55	< 0.55					
4	Okawa River	Kamiyama Bridge	Kesenuma City	2024/5/17	Cloudy	18.4	0.6	14.6	0.0	Light grayish reddish yellow	None	>100	162	1	0.5	< 0.62	< 0.58			
				2024/8/23	Cloudy	29.8	0.2	23.0	0.0	Light grayish yellow	None	>100	79.7	9	1.7	< 0.67	< 0.51			
2024/11/18		Sunny		9.2	0.8	13.2	0.0	Light grayish greenish yellow	None	>100	1,480	2	1.8	< 0.62	< 0.44					
2025/1/8		Sunny		4.9	1.2	8.4	0.0	Light grayish yellow	None	>100	2,270	2	0.9	< 0.64	< 0.47					
5	Okawa River	Okawa River Estuary	Kesenuma City	2024/5/17	Cloudy	17.1	0.6	16.1	0.0	Light grayish yellow	None	>100	2,060	3	1.2	< 0.48	< 0.58			
				2024/8/23	Sunny	28.3	0.6	25.3	0.0	Light grayish greenish yellow	None	65	1,770	33	8.0	< 0.67	< 0.69			
2024/11/18		Sunny		8.9	0.5	14.5	0.0	Grayish yellow	None	>100	3,720	2	1.5	< 0.50	< 0.58					
2025/1/8		Sunny		2.3	0.7	10.6	0.0	Grayish yellow green	None	>100	3,680	1	1.0	< 0.66	< 0.58					
6	Omose River	Ozaki Bridge	Kesenuma City	2024/5/16	Cloudy	20.1	0.3	18.2	0.0	Light grayish yellow	None	>100	127	7	2.4	< 0.64	< 0.61			
				2024/8/23	Cloudy	28.0	0.2	25.1	0.0	Colourless	None	>100	578	21	2.7	< 0.57	< 0.64			
2024/11/18		Sunny		9.3	1.0	13.0	0.0	Light grayish greenish yellow	None	>100	1,550	2	1.7	< 0.59	< 0.61					
2025/1/8		Sunny		2.5	0.5	9.9	0.0	Light grayish yellow	None	>100	2,960	3	1.6	< 0.64	< 0.61					
7	Arima River	Unanda Bridge	Kurihara City	2024/5/17	Cloudy	13.3	0.4	15.5	0.0	Grayish yellow	None	21	16.6	20	10	< 0.62	< 0.47			
				2024/8/15	Sunny	32.2	0.4	27.4	0.0	Light grayish yellow	None	68	12.8	4	3.0	< 0.61	< 0.58			
2024/11/12		Cloudy		17.8	0.1	11.4	0.0	Light grayish greenish yellow	None	>100	18.5	<1	0.8	< 0.79	< 0.54					
2025/1/8		Sunny		3.4	0.4	2.8	0.0	Light grayish greenish yellow	None	>100	16.3	2	2.5	< 0.67	< 0.36					
8	Kinryu River	Obata Bridge	Kurihara City	2024/5/17	Cloudy	17.1	0.3	16.7	0.0	Light grayish yellow	None	14	16.0	44	33	< 0.72	< 0.63			
				2024/8/15	Sunny	32.5	0.3	28.7	0.0	Light grayish reddish yellow	None	25	12.8	17	8.9	< 0.62	< 0.60			
2024/11/12		Cloudy		15.4	0.2	11.2	0.0	Light grayish reddish yellow	None	>100	17.2	2	2.0	< 0.59	< 0.61					
2025/1/8		Sunny		5.8	0.3	2.6	0.0	Light grayish yellow green	None	86	14.4	7	4.2	< 0.64	< 0.61					
9	Kitakami River System	Kitakami River	Tome City	2024/5/24	Sunny	27.5	0.5	19.8	0.0	Light grayish reddish yellow	None	63	13.2	15	5.8	< 0.66	< 0.51			
				2024/8/23	Cloudy	30.1	0.5	25.0	0.0	Light grayish reddish yellow	None	>100	13.1	5	1.7	< 0.50	< 0.55			
2024/11/7		Cloudy		14.4	0.3	12.1	0.0	Light grayish yellow	None	>100	25.8	3	0.9	< 0.59	< 0.44					
2025/1/20		Sunny		5.2	0.3	2.9	0.0	Light grayish yellow green	None	>100	25.9	2	1.0	< 0.57	< 0.61					
10	Sanhasama River	Doman Bridge (Kurikoma Dam)	Kurihara City	2024/5/14	Sunny	15.7	1.3	10.7	0.0	Light grayish yellow green	None	>100	9.4	1	0.5	< 0.76	< 0.64			
				2024/8/20	Sunny	28.5	2.1	21.4	0.0	Light grayish greenish yellow	None	>100	11.0	1	0.5	< 0.67	< 0.47			
2024/11/1		Cloudy		17.1	0.6	11.1	0.0	Light grayish yellow green	None	>100	14.7	<1	0.4	< 0.52	< 0.52					
2025/1/7		Cloudy		5.1	0.5	5.2	0.0	Light grayish yellow green	None	>100	13.9	2	1.6	< 0.66	< 0.71					
11	Nihhasama River	Kajiya Bridge	Kurihara City	2024/5/14	Sunny	21.3	0.3	15.3	0.0	Light grayish yellow	None	40	11.3	11	8.6	< 0.64	< 0.64			
				2024/8/19	Cloudy	31.0	0.4	24.7	0.0	Colourless	None	>100	10.1	2	1.4	< 0.73	< 0.54			
2024/11/1		Sunny		17.6	0.1	15.7	0.0	Colourless	None	>100	19.6	<1	0.5	< 0.52	< 0.52					
2025/1/7		Sunny		7.6	0.4	4.4	0.0	Light grayish reddish yellow	None	>100	11.4	3	3.8	< 0.54	< 0.48					
12	Hasama River	Hanayama Dam, inflow area	Kurihara City	2024/5/14	Sunny	19.0	0.4	16.1	0.0	Light grayish yellow green	None	>100	7.3	1	0.6	< 0.51	< 0.54			
				2024/8/19	Sunny	27.5	0.5	21.3	0.0	Light grayish greenish yellow	None	>100	8.8	1	0.5	< 0.71	< 0.64			
2024/11/1		Cloudy		17.4	0.6	13.6	0.0	Light grayish yellow green	None	>100	9.5	<1	0.2	< 0.50	< 0.60					
2025/1/7		Light Rain		6.2	0.5	7.3	0.0	Light grayish greenish yellow	None	>100	9.0	1	0.6	< 0.56	< 0.63					
13	Hasama River	Wakayanagi	Kurihara City	2024/5/27	Cloudy	21.6	0.5	18.7	0.0	Light grayish reddish yellow	None	35	20.0	17	10	< 0.53	< 0.66			
				2024/8/15	Sunny	34.3	0.5	25.5	0.0	Light grayish yellow	None	68	13.2	10	4.0	< 0.59	< 0.63			
2024/11/12		Cloudy		17.0	0.3	11.7	0.0	Grayish yellow	None	>100	18.3	3	1.8	< 0.56	< 0.58					
2025/1/8		Sunny		5.0	0.4	3.8	0.0	Light grayish reddish yellow	None	>100	17.9	5	3.0	< 0.47	< 0.51					

Miyagi River(Water) 2/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks		
	Water Area	Location	Municipality					General items											Activity concentration(Bq/L)	
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium				
																Cs-134	Cs-137			
14	Hasama River	Yamayoshida Bridge	Tome City	2024/5/24	Sunny	28.8	0.5	21.5	0.0	Light grayish yellow	None	22	17.1	37	28	< 0.68	< 0.58			
				2024/8/23	Sunny	31.3	0.4	27.1	0.0	Grayish yellow	None	60	14.9	12	5.5	< 0.62	< 0.52			
15	Eai River	Todoroki Bridge (Todoroki)	Osaki City	2024/11/7	Cloudy	10.3	0.4	11.5	0.0	Light grayish greenish yellow	None	63	19.4	8	4.7	< 0.69	< 0.48			
				2025/1/20	Cloudy	6.3	0.3	2.3	0.0	Light grayish greenish yellow	None	98	18.8	5	2.9	< 0.60	< 0.52			
				2024/5/7	Light Rain	16.8	0.4	13.7	0.0	Grayish yellow green	None	>100	9.3	1	0.8	< 0.62	< 0.54			
		2024/8/5	Cloudy	30.6	0.5	20.1	0.0	Grayish greenish yellow	None	>100	7.0	4	1.8	< 0.66	< 0.55					
		2024/11/1	Cloudy	19.5	0.5	13.5	0.0	Light grayish yellow	None	>100	11.4	<1	0.6	< 0.69	< 0.54					
		2025/1/7	Light Rain	4.5	0.5	5.2	0.0	Light grayish yellow	None	>100	11.9	2	1.4	< 0.66	< 0.61					
16	Eai River	Shimizu lock gate	Osaki City	2024/5/22	Sunny	23.0	0.9	17.1	0.0	Light grayish yellow green	None	90	14.0	5	3.4	< 0.66	< 0.54			
				2024/8/7	Sunny	30.8	0.4	22.4	0.0	Light grayish greenish yellow	None	45	9.8	16	13	< 0.62	< 0.48			
				2024/11/13	Sunny	15.7	0.3	13.7	0.0	Light grayish yellow green	None	>100	17.6	4	1.8	< 0.55	< 0.55			
				2025/1/15	Cloudy	3.3	0.4	5.1	0.0	Light grayish reddish yellow	None	>100	16.7	2	1.9	< 0.44	< 0.52			
17	In Furukawa District, Osaki City	Shinborisaihon, entrance	Osaki City	2024/5/22	Sunny	23.5	0.8	18.6	0.0	Grayish yellow	None	46	21.1	10	6.3	< 0.66	< 0.61			
				2024/8/2	Sunny	30.0	1.0	25.8	0.0	Light grayish yellow	None	20	12.3	22	26	< 0.54	< 0.58			
				2024/11/13	Sunny	16.1	0.7	12.3	0.0	Light grayish yellow	None	>100	24.3	5	2.3	< 0.59	< 0.63			
				2025/1/15	Cloudy	3.1	0.7	4.4	0.0	Light grayish greenish yellow	None	87	26.1	6	5.1	< 0.52	< 0.68			
18	Dekigawa River	Kogota Bridge	Misato Town	2024/5/22	Sunny	20.7	2.1	19.4	0.0	Grayish yellow	None	24	18.0	21	12	< 0.64	< 0.51			
				2024/8/2	Sunny	30.1	1.8	25.0	0.0	Light grayish reddish yellow	None	20	12.7	25	15	< 0.42	< 0.65			
				2024/11/13	Sunny	13.9	0.3	11.3	0.0	Light grayish yellow	None	70	33.1	5	5.0	< 0.52	< 0.56			
				2025/1/15	Cloudy	2.6	0.2	4.5	0.0	Light grayish reddish yellow	None	57	26.9	16	7.8	< 0.62	< 0.43			
19	Eai River	Oikawa Bridge (Tandai)	Wakuya Town /Ishinomaki City	2024/5/24	Cloudy	25.8	0.3	24.2	0.0	Light grayish reddish yellow	None	30	17.3	24	12	< 0.57	< 0.66			
				2024/8/27	Cloudy	28.2	0.5	27.7	0.0	Light grayish reddish yellow	None	30	14.4	21	8.2	< 0.54	< 0.52			
				2024/11/7	Cloudy	10.5	0.6	11.6	0.0	Light grayish greenish yellow	None	97	18.2	5	2.3	< 0.56	< 0.47			
				2025/1/20	Sunny	8.1	0.5	4.5	0.0	Light grayish greenish yellow	None	>100	16.8	7	2.7	< 0.50	< 0.54			
20	Kyu-Kitakami River	Kadonowaki	Ishinomaki City	2024/5/23	Sunny	23.2	2.8	21.2	0.0	Light grayish yellow green	None	37	221	18	9.9	< 0.66	< 0.47			
				2024/8/27	Sunny	31.6	3.6	26.5	0.0	Light grayish yellow	None	65	17.2	8	4.8	< 0.62	< 0.60			
				2024/11/7	Sunny	12.3	2.7	13.1	0.0	Grayish greenish yellow	None	>100	216	3	1.2	< 0.67	< 0.58			
				2025/1/20	Sunny	12.8	2.0	4.4	0.0	Grayish greenish yellow	None	>100	453	3	1.6	< 0.60	< 0.60			
21	Naruse River	Ono Bridge (Ono)	Higashi-Matsushima City	2024/5/23	Sunny	23.5	0.3	22.8	0.0	Light grayish yellow	None	26	20.7	23	14	< 0.64	< 0.64			
				2024/8/27	Cloudy	31.4	0.6	27.0	0.0	Light grayish reddish yellow	None	20	14.0	76	18	< 0.56	< 0.52			
				2024/11/7	Sunny	8.9	0.6	11.8	0.0	Light grayish reddish yellow	None	50	19.1	19	3.4	< 0.54	< 0.54			
				2025/1/20	Sunny	13.2	0.6	5.7	0.0	Grayish yellow	None	70	19.3	11	4.1	< 0.67	< 0.58			
22	Sunaoshi River	Tagajozeki Weir	Tagajo City	2024/5/29	Sunny	23.0	0.8	21.9	0.0	Light grayish reddish yellow	None	30	23.2	34	19	< 0.59	< 0.48			
				2024/8/1	Sunny	30.1	1.5	29.8	0.0	Grayish yellow	None	31	107	17	8.5	< 0.64	< 0.58			
				2024/11/22	Sunny	10.3	0.8	9.7	0.0	Grayish yellow	None	65	738	8	5.0	< 0.61	< 0.55			
				2025/1/22	Sunny	10.1	0.7	5.9	0.0	Light grayish yellow green	None	75	116	8	3.6	< 0.55	< 0.58			
23	Sunaoshi River	Nenbutsu Bridge	Tagajo City	2024/5/21	Sunny	21.4	2.8	21.3	0.0	Light grayish greenish yellow	None	56	3,300	10	7.2	< 0.64	< 0.55			
				2024/8/22	Cloudy	28.5	0.4	28.0	0.0	Light grayish reddish yellow	None	30	3,370	19	14	< 0.69	< 0.66			
				2024/11/22	Cloudy	13.1	0.9	15.6	0.0	Grayish yellow green	None	80	4,200	5	3.0	< 0.61	< 0.58			
				2025/1/16	Sunny	1.7	1.0	4.5	0.0	Light grayish greenish yellow	None	>100	3,930	3	1.8	< 0.50	< 0.55			
24	Teizan-unga Canal(Kyu-sunaoshi River)	Teizan Bridge	Shichigahama Town / Tagajo City	2024/5/21	Sunny	22.0	1.8	22.6	0.0	Grayish yellow green	None	55	2,120	6	4.6	< 0.71	< 0.66			
				2024/8/22	Cloudy	28.9	1.4	28.9	0.0	Grayish yellow	None	40	3,000	11	6.3	< 0.62	< 0.51			
				2024/11/27	Sunny	20.1	2.4	13.3	0.0	Grayish greenish yellow	None	>100	4,410	3	2.0	< 0.64	< 0.58			
				2025/1/16	Sunny	6.2	2.0	6.6	0.0	Light grayish greenish yellow	None	>100	4,110	3	2.1	< 0.62	< 0.61			
25	Nanakita River	Nanakita Bridge	Sendai City	2024/5/21	Cloudy	22.3	0.3	19.0	0.0	Light grayish yellow	None	38	18.3	13	9.3	< 0.68	< 0.47			
				2024/8/26	Cloudy	28.6	0.4	24.2	0.0	Grayish reddish yellow	None	25	12.8	42	17	< 0.59	< 0.61			
				2024/11/22	Sunny	11.1	0.3	9.5	0.0	Light grayish yellow	None	>100	26.0	<1	1.0	< 0.59	< 0.60			
				2025/1/15	Sunny	5.3	0.3	5.5	0.0	Light grayish greenish yellow	None	>100	23.9	2	1.8	< 0.56	< 0.54			
26	Nanakita River	Fukuda-ohashi Bridge	Sendai City	2024/5/15	Cloudy	21.2	0.4	20.3	0.0	Light grayish reddish yellow	None	40	37.1	16	9.9	< 0.57	< 0.61			
				2024/8/1	Sunny	28.6	0.8	29.2	0.0	Grayish yellow	None	37	490	15	7.0	< 0.67	< 0.63			
				2024/11/13	Sunny	14.8	0.4	15.4	0.0	Light grayish yellow	None	>100	1,430	3	2.2	< 0.57	< 0.63			
				2025/1/22	Sunny	5.0	1.0	4.8	0.0	Light grayish greenish yellow	None	>100	424	3	1.2	< 0.41	< 0.58			

Miyagi River(Water) 3/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks		
	Water Area	Location	Municipality					General items											Activity concentration(Bq/L)	
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium				
																Cs-134	Cs-137			
27	Umeda River	Fukuda Bridge	Sendai City	2024/5/15	Sunny	23.4	0.3	23.0	0.0	Light grayish reddish yellow	None	10	20.6	210	130	< 0.71	< 0.47			
				2024/8/1	Sunny	31.3	0.9	27.2	0.0	Light grayish reddish yellow	None	70	20.6	11	4.8	< 0.57	< 0.64			
28	Nanakita River	Takasago Bridge	Sendai City	2024/11/13	Sunny	15.8	0.7	15.6	0.0	Grayish greenish yellow	None	85	1,810	7	3.5	< 0.61	< 0.48			
				2025/1/22	Sunny	4.8	0.6	4.6	0.0	Light grayish yellow green	None	84	1,020	7	3.3	< 0.57	< 0.66			
				2024/5/20	Cloudy	17.5	0.3	21.0	0.0	Light grayish yellow green	None	49	1,630	16	8.4	< 0.67	< 0.55			
				2024/8/1	Sunny	25.3	0.5	29.3	0.0	Yellow greenish pale gray	None	50	16.3	10	7.8	< 0.57	< 0.58			
				2024/11/21	Sunny	14.7	0.3	13.5	0.0	Light grayish yellow	None	>100	2,360	2	2.0	< 0.57	< 0.58			
29	Natori River	Yuriage-ohashi Bridge	Sendai City/Natori City	2025/1/22	Sunny	5.8	0.2	5.0	0.0	Light grayish yellow	None	>100	2,080	3	1.6	< 0.62	< 0.55			
				2024/5/17	Sunny	19.4	0.3	19.4	0.0	Grayish reddish yellow	None	30	1,450	37	11	< 0.62	< 0.63			
				2024/8/1	Sunny	24.2	0.9	27.1	0.0	Grayish greenish yellow	None	65	15.4	9	4.0	< 0.59	< 0.58			
				2024/11/21	Sunny	16.2	0.6	13.4	0.0	Light grayish yellow	None	>100	2,220	5	1.6	< 0.69	< 0.47			
				2025/1/21	Cloudy	12.2	0.5	6.7	0.0	Light grayish yellow	None	>100	640	1	0.7	< 0.47	< 0.65			
30	Masuda River	Yakushi Bridge	Natori City	2024/5/29	Sunny	21.3	0.4	15.9	0.0	Colourless	None	>100	8.5	3	1.4	< 0.69	< 0.52			
				2024/8/26	Sunny	30.1	0.5	22.3	0.0	Light grayish yellow green	None	>100	8.5	3	1.4	< 0.53	< 0.68			
				2024/11/21	Sunny	11.9	0.2	9.1	0.0	Light grayish yellow	None	>100	14.4	<1	0.5	< 0.57	< 0.66			
				2025/1/21	Sunny	4.7	0.1	3.8	0.0	Colourless	None	>100	14.2	1	0.3	< 0.52	< 0.51			
				2024/5/20	Cloudy	17.3	0.6	18.6	0.0	Light grayish yellow	None	39	13.7	18	8.9	< 0.66	< 0.58			
31	Masuda River	Koyama Bridge	Natori City	2024/8/2	Sunny	29.1	0.4	27.2	0.0	Light grayish yellow	None	39	16.7	28	7.8	< 0.54	< 0.58			
				2024/11/21	Sunny	14.2	0.6	10.1	0.0	Light grayish greenish yellow	None	>100	18.1	2	1.4	< 0.64	< 0.61			
				2025/1/21	Sunny	9.6	0.7	3.8	0.0	Light grayish yellow	None	>100	21.2	2	0.7	< 0.59	< 0.60			
				2024/5/20	Cloudy	19.3	0.5	20.7	0.0	Light grayish yellow	None	34	19.6	12	9.7	< 0.55	< 0.54			
				2024/8/2	Sunny	31.7	1.6	31.7	0.0	Light grayish yellow	None	39	342	16	6.6	< 0.53	< 0.58			
32	Masuda River	Bishamon Bridge	Natori City	2024/11/21	Sunny	13.7	1.0	11.6	0.0	Light grayish yellow green	None	90	597	4	2.7	< 0.50	< 0.66			
				2025/1/21	Sunny	12.4	0.9	6.9	0.0	Grayish greenish yellow	None	90	358	5	3.3	< 0.59	< 0.61			
				2024/4/23	Cloudy	16.0	0.4	15.4	0.0	Grayish greenish yellow	None	>100	18.7	7	3.6	< 0.62	< 0.44			
				2024/5/17	Cloudy	19.3	0.8	16.7	0.0	Grayish greenish yellow	None	38	17.2	17	6.9	< 0.53	< 0.52			
				2024/6/10	Sunny	20.4	0.9	21.1	0.0	Light grayish yellow	None	>100	19.2	8	4.7	< 0.67	< 0.58			
33	Abukuma River System	Hadeniwa Bridge	Marumori Town	2024/7/2	Sunny	29.6	0.7	24.1	0.0	Light grayish greenish yellow	None	90	21.3	8	3.5	< 0.64	< 0.54			
				2024/8/9	Sunny	33.2	0.7	27.4	0.0	Light grayish yellow	None	35	15.4	24	7.7	< 0.47	< 0.61			
				2024/9/2	Sunny	31.8	0.6	26.6	0.0	Light grayish reddish yellow	None	30	14.3	28	11	< 0.64	< 0.47			
				2024/10/4	Cloudy	22.5	0.5	20.8	0.0	Grayish greenish yellow	None	>100	20.1	8	2.8	< 0.62	< 0.48			
				2024/12/6	Light Rain	8.9	0.9	8.3	0.0	Light grayish yellow green	None	>100	21.4	3	2.0	< 0.59	< 0.54			
				2025/1/10	Sunny	5.2	0.5	4.0	0.0	Light grayish yellow	None	65	22.7	8	4.1	< 0.66	< 0.48			
				2025/2/3	Cloudy	3.3	0.5	3.9	0.0	Grayish yellow green	None	85	27.3	7	3.5	< 0.62	< 0.60			
				2024/4/23	Cloudy	15.2	0.5	15.8	0.0	Grayish yellow	None	>100	18.6	5	3.7	< 0.65	< 0.44			
				2024/5/17	Sunny	19.2	0.4	17.5	0.0	Grayish reddish yellow	None	50	17.9	17	7.1	< 0.49	< 0.60			
				2024/6/10	Sunny	25.5	0.5	23.1	0.0	Grayish greenish yellow	None	>100	19.6	7	4.5	< 0.66	< 0.51			
				2024/7/2	Cloudy	28.4	0.4	24.4	0.0	Light grayish yellow	None	90	21.0	7	3.3	< 0.62	< 0.39			
				2024/8/9	Sunny	33.4	0.6	28.8	0.0	Grayish reddish yellow	None	58	15.3	12	4.9	< 0.62	< 0.47			
				2024/9/2	Light Rain	29.7	0.7	26.6	0.0	Grayish yellow	None	35	14.3	19	8.9	< 0.60	< 0.51			
				2024/10/4	Cloudy	21.4	0.3	21.4	0.0	Light grayish yellow	None	>100	19.6	4	2.0	< 0.54	< 0.44			
				34	Abukuma River System	Marumori Bridge	Marumori Town	2024/12/16	Sunny	7.6	0.5	5.9	0.0	Light grayish greenish yellow	None	>100	22.4	3	2.8	< 0.62
2025/1/10	Sunny	4.1	0.4					4.4	0.0	Light grayish greenish yellow	None	80	22.6	7	3.6	< 0.45	< 0.44			
2025/2/3	Cloudy	5.2	0.3					4.3	0.0	Grayish greenish yellow	None	80	25.9	7	3.5	< 0.58	< 0.66			
2024/4/23	Light Rain	15.2	0.4					16.1	0.0	Grayish yellow	None	69	17.8	8	4.9	< 0.53	< 0.77			
2024/6/12	Sunny	30.0	0.6					26.6	0.0	Light grayish greenish yellow	None	>100	19.5	9	3.6	< 0.64	< 0.58			
2024/8/26	Cloudy	28.5	0.4					26.3	0.0	Grayish reddish yellow	None	20	12.1	150	70	< 0.59	< 0.51			
2024/10/1	Sunny	27.0	0.5					23.1	0.0	Light grayish yellow red	None	>100	18.5	8	3.3	< 0.62	< 0.61			
2024/12/16	Sunny	6.9	0.6					6.2	0.0	Light grayish yellow green	None	>100	23.6	3	2.8	< 0.69	< 0.52			
2025/1/10	Cloudy	4.1	0.5					5.3	0.0	Grayish greenish yellow	None	75	22.6	9	3.9	< 0.57	< 0.63			
35	Abukuma River System	Higashine Bridge	Kakuda City					2024/4/23	Light Rain	15.2	0.4	16.1	0.0	Grayish yellow	None	69	17.8	8	4.9	< 0.53
				2024/6/12	Sunny	30.0	0.6	26.6	0.0	Light grayish greenish yellow	None	>100	19.5	9	3.6	< 0.64	< 0.58			
				2024/8/26	Cloudy	28.5	0.4	26.3	0.0	Grayish reddish yellow	None	20	12.1	150	70	< 0.59	< 0.51			
				2024/10/1	Sunny	27.0	0.5	23.1	0.0	Light grayish yellow red	None	>100	18.5	8	3.3	< 0.62	< 0.61			
				2024/12/16	Sunny	6.9	0.6	6.2	0.0	Light grayish yellow green	None	>100	23.6	3	2.8	< 0.69	< 0.52			

Miyagi River(Water) 4/4

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks		
	No.	Water Area	Location	Municipality					General items											Activity concentration(Bq/L)	
									Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium				
																	Cs-134	Cs-137			
Abukuma River System	36	Shiroishi River	Before the confluence with Kawaharagoza (Sunaoshi Bridge)	Shiroishi City	2024/4/22	Cloudy	21.0	0.7	10.6	0.0	Grayish yellow green	None	>100	7.9	2	2.3	< 0.67	< 0.68			
					2024/7/4	Sunny	29.3	0.5	20.1	0.0	Light grayish yellow green	None	>100	7.6	3	1.2	< 0.57	< 0.71			
					2024/11/15	Cloudy	15.5	0.5	14.3	0.0	Grayish greenish yellow	None	>100	8.4	3	2.0	< 0.60	< 0.54			
					2025/1/14	Cloudy	4.2	0.3	4.7	0.0	Light grayish yellow green	None	>100	8.6	1	1.2	< 0.66	< 0.47			
	37	Saikawa River	Etsubo Bridge	Shiroishi City	2024/4/22	Cloudy	21.1	0.3	15.1	0.0	Grayish yellow green	None	>100	13.5	3	2.4	< 0.62	< 0.42			
					2024/7/3	Cloudy	28.3	0.5	22.8	0.0	Light grayish yellow green	None	50	11.9	10	6.1	< 0.71	< 0.66			
					2024/11/15	Cloudy	17.6	0.3	12.8	0.0	Grayish greenish yellow	None	>100	13.2	3	1.8	< 0.60	< 0.51			
	38	Matsukawa River	Miya-ohashi Bridge	Zao Town	2025/1/14	Sunny	7.5	0.6	4.1	0.0	Light grayish yellow green	None	>100	17.4	3	1.3	< 0.66	< 0.61			
					2024/4/22	Sunny	19.8	0.5	14.7	0.0	Light grayish yellow green	None	>100	16.3	5	1.6	< 0.60	< 0.58			
					2024/7/3	Cloudy	24.1	0.5	20.9	0.0	Light grayish yellow	None	>100	24.9	2	1.0	< 0.69	< 0.58			
	39	Arakawa River	Niragami Bridge	Murata Town /Ogawara Town	2024/11/15	Cloudy	15.0	0.3	11.9	0.0	Dark grayish greenish yellow	None	>100	23.2	2	1.0	< 0.38	< 0.44			
					2025/1/14	Sunny	8.8	0.3	5.4	0.0	Light grayish reddish yellow	None	26	24.2	29	14	< 0.64	< 0.60			
					2024/5/23	Sunny	23.6	0.4	18.3	0.0	Light grayish reddish yellow	None	10	16.3	50	34	< 0.69	< 0.61			
	40	Shiroishi River	Shirahata Bridge	Shibata Town	2024/8/1	Sunny	29.4	0.5	28.0	0.0	Grayish reddish yellow	None	33	15.1	25	11	< 0.67	< 0.61			
					2024/11/15	Cloudy	16.7	0.6	11.9	0.0	Light grayish greenish yellow	None	>100	27.1	3	2.7	< 0.47	< 0.63			
					2025/1/14	Sunny	10.2	0.3	3.6	0.0	Light grayish yellow green	None	>100	27.7	4	1.8	< 0.43	< 0.54			
	41	Abukuma River	Tsukinoki-ohashi Bridge	Kakuda City /Shibata Town	2024/5/23	Sunny	26.8	0.5	20.2	0.0	Light grayish reddish yellow	None	50	15.9	11	6.4	< 0.69	< 0.55			
					2024/8/1	Sunny	30.4	0.3	26.2	0.0	Light grayish reddish yellow	None	50	15.7	9	4.2	< 0.55	< 0.64			
					2024/11/15	Cloudy	15.3	0.4	12.3	0.0	Light grayish yellow	None	>100	16.2	2	1.4	< 0.55	< 0.52			
	42	Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	Iwanuma City/Watari Town	2025/1/14	Sunny	8.0	0.4	5.2	0.0	Light grayish yellow	None	>100	16.5	6	3.8	< 0.44	< 0.54			
					2024/4/25	Sunny	21.2	0.3	17.7	0.0	Light grayish yellow	None	47	12.7	15	6.6	< 0.71	< 0.61			
					2024/6/12	Sunny	27.0	0.3	25.7	0.0	Light grayish yellow	None	50	16.9	9	6.0	< 0.69	< 0.51			
					2024/8/2	Sunny	26.1	0.3	28.0	0.0	Light grayish yellow	None	38	17.7	18	4.4	< 0.60	< 0.66			
					2024/10/4	Cloudy	20.9	0.3	19.3	0.0	Grayish yellow	None	90	15.2	7	2.4	< 0.56	< 0.51			
					2024/12/16	Sunny	6.1	0.2	6.7	0.0	Light grayish yellow green	None	>100	16.7	2	3.1	< 0.69	< 0.54			
					2025/1/10	Cloudy	4.4	0.2	5.0	0.0	Grayish greenish yellow	None	60	16.2	7	4.3	< 0.52	< 0.60			
					2024/4/26	Sunny	21.8	0.5	17.4	0.0	Grayish greenish yellow	None	>100	20.1	8	3.8	< 0.66	< 0.52			
					2024/5/21	Sunny	21.0	1.0	20.1	0.0	Light grayish reddish yellow	None	45	18.5	16	8.3	< 0.53	< 0.58			
					2024/6/11	Sunny	25.4	1.0	23.6	0.0	Light grayish greenish yellow	None	90	23.8	9	4.9	< 0.62	< 0.61			
	43	Abukuma River	Offshore of Abukuma River Estuary (Watari-ohashi Bridge)	Iwanuma City/Watari Town	2024/7/4	Sunny	31.9	0.6	25.8	0.0	Light grayish greenish yellow	None	70	19.0	10	5.2	< 0.52	< 0.60			
					2024/8/9	Sunny	32.1	0.7	27.9	0.0	Light grayish reddish yellow	None	70	17.5	11	3.7	< 0.71	< 0.58			
					2024/9/2	Sunny	30.3	0.6	27.1	0.0	Light grayish reddish yellow	None	40	15.1	22	8.6	< 0.68	< 0.42			
					2024/10/7	Cloudy	22.5	0.9	20.1	0.0	Grayish greenish yellow	None	95	18.9	5	2.6	< 0.60	< 0.48			
					2024/12/6	Cloudy	7.9	0.6	8.3	0.0	Dark grayish yellow green	None	>100	20.5	6	2.6	< 0.59	< 0.58			
					2025/1/16	Sunny	3.7	0.6	4.6	0.0	Light grayish yellow green	None	>100	36.0	4	2.0	< 0.57	< 0.64			
					2025/2/3	Cloudy	6.8	1.0	4.3	0.0	Dark grayish yellow green	None	>100	22.6	4	2.3	< 0.64	< 0.61			
2024/4/26					Sunny	20.2	0.5	17.6	0.0	Grayish greenish yellow	None	>100	549	6	3.6	< 0.63	< 0.48				
2024/6/11					Sunny	24.3	1.0	23.7	0.0	Light grayish yellow	None	90	686	13	5.0	< 0.66	< 0.65				
2024/8/1					Sunny	31.7	0.9	29.7	0.0	Grayish greenish yellow	None	40	619	10	4.9	< 0.55	< 0.58				
2024/10/7	Cloudy	22.8	1.0	21.2	0.0	Dark grayish yellow	None	63	430	6	3.1	< 0.48	< 0.55								
2024/12/6	Cloudy	8.1	0.8	8.9	0.0	Light grayish greenish yellow	None	98	214	3	2.4	< 0.66	< 0.52								
2025/1/16	Sunny	2.9	0.6	4.5	0.0	Light grayish greenish yellow	None	>100	1,090	3	2.1	< 0.66	< 0.61								

Miyagi River(Sediment) 1/3

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment															Activity concentration [Bq/kg(dry)]			Remarks
									General items										Grain size distribution(%)								
									Sample length (cm)	Color	Odor	Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay	Coarse sand	Medium sand	Fine sand	silt	clay	Cs-134	Cs-137	
Rivers	1	Shishiori River	Kinzan Bridge	2024/5/16	Light Rain	21.0	0.2	13.4	3	Dark grayish yellow	None	0.0	1.9	65.5	20.6	8.4	1.8	1.2	0.6	81.2	2.73	gravel/sand	< 5.7	25 ± 2.9	25		
				2024/8/23	Cloudy	27.3	0.1	17.2	10	Grayish red	None	0.0	4.5	56.1	25.8	9.5	2.0	1.0	1.1	77.4	2.72	gravel/sand	< 5.4	22 ± 2.7	22		
				2024/11/18	Cloudy	8.6	0.1	10.3	5	Olive brown	Faint swamp	0.0	0.1	32.7	29.2	32.4	4.1	0.9	0.6	73.9	2.76	gravel/sand	< 4.3	26 ± 2.6	26		
			2025/1/7	Sunny	7.6	0.1	5.6	3	Yellowish gray	None	0.0	3.1	52.9	34.2	9.1	0.7	0.0	0.0	77.6	2.76	gravel/sand	< 5.3	21 ± 2.9	21			
			2024/5/16	Cloudy	20.7	0.7	18.4	5	Olive black	Faint sewage	0.0	0.0	0.4	0.4	5.1	24.0	51.6	18.5	51.2	2.66	silt	< 6.8	45 ± 4.3	45			
			2024/8/23	Cloudy	27.5	0.4	21.9	1	Olive black	Faint sewage	0.0	0.4	0.6	1.1	5.3	32.1	45.1	15.4	56.3	2.69	silt	< 7.3	43 ± 4.0	43			
	2	Namiita Bridge	Kesennuma City	2024/11/18	Cloudy	9.5	0.5	15.7	5	Olive black	Faint ditch	0.0	0.0	5.2	3.5	6.5	24.7	39.6	20.5	62.9	2.69	silt	< 5.5	38 ± 3.2	38		
				2025/1/7	Sunny	10.7	1.3	12.5	5	Grayish olive	Faint sewage	0.0	21.5	8.8	3.3	6.4	26.5	17.1	16.4	63.8	2.70	silt	< 5.5	31 ± 3.2	31		
				2024/5/17	Cloudy	16.2	0.3	14.6	3	Dark brown	Faint phytoplankton	0.0	0.4	19.3	38.5	39.3	1.4	0.0	1.1	80.2	2.73	sand/gravel	< 5.6	9.3 ± 2.1	9.3		
				2024/8/23	Cloudy	27.0	0.4	21.4	3	Dark brown	None	0.0	0.2	30.9	36.9	28.8	1.3	1.0	0.9	83.3	2.78	sand/gravel	< 5.4	9.1 ± 1.9	9.1		
				2024/11/18	Sunny	9.2	0.1	11.7	5	Olive brown	Faint swamp	0.0	4.5	3.0	22.0	61.8	7.1	0.9	0.7	77.8	2.74	sand/gravel	< 4.9	9.9 ± 1.8	9.9		
				2025/1/7	Sunny	11.4	0.5	9.5	5	Olive brown	Faint swamp	0.0	2.4	7.8	19.1	61.6	7.7	0.8	0.6	75.5	2.77	sand/gravel	< 4.6	19 ± 2.5	19		
				2024/5/17	Cloudy	18.4	0.6	14.7	3	Dark brown	Faint phytoplankton	0.0	0.4	10.7	9.9	54.8	18.3	3.3	2.6	74.3	2.72	sand	< 5.2	23 ± 2.7	23		
				2024/8/23	Cloudy	29.8	0.2	22.9	3	Dark brown	Faint phytoplankton	0.0	0.0	1.0	3.6	75.9	16.1	1.4	2.0	75.8	2.72	sand	< 5.0	22 ± 2.5	22		
				2024/11/18	Sunny	9.2	0.8	14.8	5	Black	Faint ditch	0.0	0.0	7.6	14.9	24.6	28.1	11.4	13.4	64.6	2.74	silt/sand	< 6.0	39 ± 3.3	39		
				2025/1/8	Sunny	4.9	1.2	11.6	3	Dark olive brown	Faint ditch	2.6	12.1	9.6	15.8	21.4	16.8	9.9	11.8	64.0	2.74	silt/sand	< 6.0	36 ± 3.4	36		
3	Okawa River	Kamiyama Bridge	Kesennuma City	2024/5/17	Cloudy	17.1	0.6	16.1	3	Brownish black	Faint sewage	0.0	0.1	7.9	15.3	32.5	22.5	12.5	9.2	70.5	2.71	silt/sand	< 7.6	55 ± 3.8	55		
				2024/8/23	Sunny	28.3	0.6	25.2	3	Brownish black	Faint sewage	0.0	0.1	12.0	12.9	16.0	20.2	24.5	14.3	62.4	2.69	silt/sand	< 6.2	47 ± 4.2	47		
				2024/11/18	Sunny	8.9	0.5	15.6	5	Olive black	Faint swamp	0.0	0.2	3.5	11.2	35.1	24.0	10.9	15.1	68.3	2.71	sand/silt	< 4.3	50 ± 3.4	50		
				2025/1/8	Sunny	2.3	0.7	10.7	5	Olive black	Faint ditch	0.0	9.3	3.9	10.1	32.2	17.8	8.6	18.1	63.8	2.74	silt/sand	< 5.5	46 ± 3.9	46		
				2024/5/16	Cloudy	20.1	0.3	18.4	3	Olive black	Faint sewage	0.0	0.8	14.6	10.9	20.6	22.9	18.9	11.3	61.7	2.69	silt	< 6.3	39 ± 3.7	39		
				2024/8/23	Cloudy	28.0	0.2	26.6	3	Olive black	Faint sewage	0.0	16.9	11.3	6.5	17.2	18.5	17.6	12.0	58.3	2.69	silt	< 9.1	68 ± 6.8	68		
4	Omose River	Ozaki Bridge	Kesennuma City	2024/11/18	Sunny	9.3	1.0	17.5	5	Black	Faint ditch	0.0	0.0	2.2	2.7	10.1	23.1	34.1	27.8	44.5	2.67	silt	< 7.1	47 ± 3.9	47		
				2025/1/8	Sunny	2.5	0.5	12.6	5	Olive black	Faint ditch	0.0	6.4	2.2	3.5	9.7	15.9	30.7	31.6	34.4	2.69	silt	< 7.9	50 ± 4.2	50		
				2024/5/17	Cloudy	13.3	0.4	15.0	3	Dark olive brown	Faint swamp	0.0	0.0	1.6	20.3	70.2	5.3	1.2	1.4	78.2	2.68	sand	< 5.8	34 ± 3.5	34		
				2024/8/15	Sunny	32.2	0.4	27.3	3	Dark grayish yellow	Faint swamp	0.0	1.0	17.4	26.1	43.3	6.7	3.9	1.6	79.5	2.72	sand/gravel	< 5.5	40 ± 3.3	40		
				2024/11/12	Cloudy	17.8	0.1	11.4	5	Dark grayish yellow	None	0.0	0.5	12.2	37.5	47.5	1.7	0.4	0.2	77.6	2.70	sand/gravel	< 4.3	35 ± 3.2	35		
				2025/1/8	Sunny	3.4	0.4	2.9	5	Dull yellow brown	None	0.0	0.5	14.0	39.2	43.0	1.8	0.8	0.7	78.3	2.71	sand/gravel	< 4.5	42 ± 3.3	42		
5	Arima River	Unanda Bridge	Kurihara City	2024/5/17	Cloudy	17.1	0.3	16.4	3	Dark brown	None	0.0	0.1	3.7	8.9	65.8	18.9	1.3	1.3	76.9	2.66	sand	< 6.9	46 ± 4.2	46		
				2024/8/15	Sunny	32.5	0.3	28.7	3	Brownish black	Faint swamp	0.0	0.1	15.5	35.4	36.7	7.8	3.7	0.8	78.7	2.72	sand/gravel	< 4.9	40 ± 3.4	40		
				2024/11/12	Cloudy	15.4	0.2	11.4	5	Dark grayish yellow	None	0.0	0.0	1.1	6.5	67.6	23.6	0.9	0.3	76.5	2.71	sand	< 5.5	52 ± 4.1	52		
				2025/1/8	Sunny	5.8	0.3	2.7	5	Dull yellow brown	None	0.0	0.0	0.4	4.3	66.9	25.6	1.7	1.1	76.8	2.73	sand	< 6.6	56 ± 4.2	56		
				2024/5/24	Sunny	27.5	0.5	19.3	5	Gray	Faint ditch	0.0	0.0	0.9	0.7	3.2	32.5	44.1	18.6	45.3	2.55	silt	< 5.4	47 ± 3.6	47		
				2024/8/23	Cloudy	30.1	0.5	27.3	5	Brownish black	Faint phytoplankton	0.0	0.0	0.3	1.3	32.7	59.3	4.6	1.8	75.7	2.76	sand	< 3.6	13 ± 1.7	13		
6	Kitakami River	Tomeohashi Bridge (Tome)	Tome City	2024/11/7	Cloudy	14.4	0.3	12.2	5	Olive black	None	0.0	0.0	0.5	0.7	77.6	19.7	1.1	0.4	78.5	2.76	sand	< 3.2	9.8 ± 1.7	9.8		
				2025/1/20	Sunny	5.2	0.3	4.0	5	Grayish olive	None	0.0	0.5	1.2	1.6	45.5	47.0	3.1	1.1	70.6	2.71	sand	< 4.1	18 ± 2.1	18		
				2024/5/14	Sunny	15.7	1.3	11.0	5	Brown	None	0.0	0.2	0.6	2.1	49.7	40.9	5.2	1.3	72.3	2.84	sand/gravel	< 5.6	19 ± 2.5	19		
				2024/8/20	Sunny	28.5	2.1	26.1	5	Dull yellow brown	Faint swamp	0.0	0.7	15.9	30.2	46.7	3.2	2.2	1.1	74.1	2.79	sand/gravel	< 4.4	22 ± 2.3	22		
				2024/11/1	Cloudy	17.1	0.6	13.0	5	Dark olive	None	0.0	0.4	14.2	42.6	37.6	2.2	2.0	1.0	67.8	2.70	sand/gravel	< 7.7	28 ± 3.5	28		
				2025/1/7	Cloudy	5.1	0.5	4.0	5	Yellow brown	None	0.0	0.4	9.0	7.5	54.2	23.9	2.8	2.2	72.9	2.88	sand	< 4.9	15 ± 2.5	15		
7	Nihasama River	Kajiya Bridge	Kurihara City	2024/5/14	Sunny	21.3	0.3	16.0	5	Brown	None	0.0	0.2	5.9	11.6	61.5	11.3	6.9	2.6	70.8	2.68	sand	< 4.4	66 ± 3.7	66		
				2024/8/19	Cloudy	31.0	0.4	25.2	5	Grayish red	None	0.0	0.1	2.0	3.7	49.3	33.2	8.2	3.5	72.5	2.64	sand	< 3.8	27 ± 2.2	27		
				2024/11/1	Sunny	17.6	0.1	15.5	5	Dark brown	None	0.0	0.0	0.8	2.5	61.1	28.0	5.2	2.4	67.3	2.69	sand	< 5.3	37 ± 3.2	37		
				2025/1/7	Sunny	7.6	0.4	4.6	5	Dull yellow brown	Faint swamp	0.0	0.0	0.1	2.6	72.2	19.0	4.4	1.7	70.4	2.69	sand	< 6.0	28 ± 3.3	28		
				2024/5/14	Sunny	19.0	0.4	15.2	5	Brownish black	None	0.0	0.3	3.8	17.6	70.3	6.6	0.7	0.7	78.0	2.81	sand	< 3.9	9.8 ± 1.6	9.8		
				2024/8/19	Sunny	27.5	0.5	21.3	5	Dark grayish yellow	None	0.0	0.3	8.3	25.1	60.9	3.6	0.6	1.2	77.1	2.72	sand/gravel	< 4.4	6.2 ± 1.4	6.2		
8	Hanayama Dam, inflow area	Wakayanagi	Kurihara City	2024/11/1	Cloudy	17.4	0.6	13.4	5	Grayish yellow brown	None	0.0	0.0	1.7	16.2	76.8	4.1	0.7	0.5	73.4	2.74	sand/gravel	< 5.3	12 ± 2.2	12		
				2025/1/7	Light Rain	6.2	0.5	6.9	5	Grayish yellow brown	None	0.0	0.0	1.4	20.0	72.9	5.0	0.5	0.2	76.6	2.78	sand	< 4.1	7.6 ± 1.9	7.6		
				2024/5/27	Cloudy	21.6	0.5	19.5	5	Dull yellow brown	None	0.0	1.2	17.2	12.7	54.6	11.5	0.7	2.1	81.6	2.82	sand/gravel	< 4.2	17 ± 2.3	17		
				2024/8/15	Sunny	34.3	0.5	25.5	3	Brownish black	None	0.0	0.4	17.4	23.3	54.6	3.2	0.0	1.1	79.7	2.79	sand	< 4.4	15 ± 2.3	15		
				2024/11/12	Cloudy	17.0	0.3	11.8	5	Dark brown	None	0.0	1.3	17.2	32.5	44.9	3.5	0.4	0.2	82.4	2.99	sand/gravel	< 4.5	11 ± 2.0	11		
				2025/1/8	Sunny	5.0	0.4	4.1	5	Brown	None	0.0	0.8	16.2	11.7	58.9	11.5	0.4	0.5	81.1	2.96	sand/gravel	< 4.9	14 ± 1.9	14		
9	Yamayoshida Bridge	Tome City	Tome City	2024/5/24	Sunny	28.8	0.5	21.2	5	Brownish black	Faint swamp	0.0	0.0	5.8	21.2	60.7	8.7	0.0	3.6	80.2	2.91	sand/gravel	< 5.1	13 ± 2.3	13		
				2024/8/23	Sunny	31.3	0.4	27.0	5	Dark olive brown	None	0.0	2.9	5.2	24.8	59.8	5.4	0.7	1.2	81.4	2.79	sand/gravel	< 4.6	13 ± 2.2	13		
				2024/11/7	Cloudy	10.3	0.4	11.7	5	Dark brown	None	0.0	0.3	6.1	17.4	69.6	6.0	0.4	0.2	79.5	2.91	sand/gravel	< 5.4	21 ± 2.6	21		
				2025/1/20	Cloudy	6.3	0.3	3.2	5	Dark brown	Faint swamp	0.0	0.2	12.7	39.0	42.9	4.2	0.6	0.4	79.4	2.77	sand/gravel	< 4.4	22 ± 2.5	22		
				2024/5/7	Light Rain	16.8	0.4	14.3	5	Olive brown	None	0.0	0.0	0.1	0.3	39.9	47.3	7.9	4.5	67.1	2.65	sand	< 3.7	26 ± 2.0	26		
				2024/8/5	Cloudy	30.6	0.5	20.2	5	Dark grayish yellow	None	0.0	1.8	0.5	1.0	28.4	52.5	13.6	2.2	71.7	2.66	sand	< 4.3	23 ± 2.1	23		
10	Eai River	Todoroki Bridge (Todoroki)	Osaki City	2024/11/1	Cloudy	19.5	0.5	13.3	5	Dark grayish yellow	None	0.0	0.1	0.9	1.4	19.4	66.1	9.3	2.8	72.4	2.69	sand	< 3.8	18 ± 2.1	18		
				2025/1/7	Light Rain	4.5	0.5	4.3																			

Miyagi River(Sediment) 2/3

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment														Activity concentration [Bq/kg(dry)]			Remarks
	Water Area	Location	Municipality						Sample length (cm)	Color	Odor	General items								Sediment content (%)	Density (Mg/m³)	Property	Radioactive cesium			
												Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay				Cs-134	Cs-137	Total	
17	In Furukawa District, Osaki City	Shinborisaihon, entrance	Osaki City	2024/5/22	Sunny	23.5	0.8	18.5	3	Black	Faint ditch	0.0	0.0	2.9	4.0	82.1	5.8	0.6	4.6	73.2	2.65	sand	< 5.5	47 ± 3.8	47	
				2024/8/2	Sunny	30.0	1.0	25.8	3	Black	Faint ditch	0.0	0.0	4.5	7.4	79.6	5.3	1.2	2.0	70.6	2.62	sand	< 5.7	55 ± 4.0	55	
				2024/11/13	Sunny	16.1	0.7	12.7	5	Olive black	Faint algae	0.0	1.1	2.4	6.4	82.6	5.8	1.0	0.7	76.8	2.69	sand	< 4.7	37 ± 3.1	37	
18	Dekigawa River	Kogota Bridge	Misato Town	2025/1/15	Cloudy	3.1	0.7	5.1	5	Olive black	Faint swamp	0.0	1.9	2.7	7.7	82.2	3.5	1.5	0.5	72.1	2.66	sand/silt	< 6.3	45 ± 4.0	45	
				2024/5/22	Sunny	20.7	2.1	17.7	3	Olive black	Faint sewage	0.0	0.0	1.1	6.1	52.0	20.4	13.9	6.5	76.4	2.65	silt/sand	< 3.9	33 ± 2.5	33	
				2024/8/2	Sunny	30.1	1.8	25.0	3	Olive black	Faint sewage	0.0	0.1	2.1	8.9	50.3	20.9	10.5	7.2	76.6	2.65	sand	< 3.5	26 ± 2.2	26	
				2024/11/13	Sunny	13.9	0.3	11.8	5	Olive black	Faint ditch	0.0	0.0	0.0	0.4	71.6	23.9	3.3	0.8	76.2	2.75	sand	< 4.3	23 ± 2.3	23	
				2025/1/15	Cloudy	2.6	0.2	4.3	5	Olive black	Faint ditch	0.0	0.9	0.2	0.8	73.8	19.8	2.5	2.0	72.9	2.71	sand/silt	< 4.7	28 ± 2.7	28	
19	Eai River	Oikawa Bridge (Tandai)	Wakuya Town /Ishinomaki City	2024/5/24	Cloudy	25.8	0.3	22.7	5	Brownish black	Faint swamp	0.0	0.0	1.0	2.1	76.6	15.1	2.1	3.1	75.4	2.68	sand	< 3.4	9.9 ± 1.5	9.9	
				2024/8/27	Cloudy	28.2	0.5	27.5	5	Dark olive brown	None	0.0	0.7	17.5	24.0	49.3	6.4	0.5	1.6	81.6	2.76	sand/gravel	< 3.2	6.0 ± 1.4	6.0	
				2024/11/7	Cloudy	10.5	0.6	11.3	5	Dark grayish yellow	None	0.0	4.0	20.7	22.7	45.4	6.2	0.6	0.4	81.9	2.74	sand/gravel	< 5.2	9.3 ± 2.0	9.3	
				2025/1/20	Sunny	8.1	0.5	4.7	5	Olive brown	None	0.0	2.4	15.5	12.3	57.5	11.4	0.6	0.3	80.8	2.78	sand/gravel	< 3.8	5.0 ± 1.5	5.0	
				2024/5/23	Sunny	23.2	2.8	20.9	3	Olive black	Faint seaweed	0.0	0.0	0.8	1.0	37.4	39.3	12.3	9.2	57.7	2.71	silt	< 6.0	59 ± 4.3	59	
20	Kyu-Kitakami River	Kadonowaki	Ishinomaki City	2024/8/27	Sunny	31.6	3.6	26.4	5	Gray	Faint seaweed	0.0	0.0	0.2	0.5	25.2	48.9	12.4	12.8	63.8	2.64	sand/silt	< 5.2	25 ± 2.6	25	
				2024/11/7	Sunny	12.3	2.7	16.8	5	Olive black	Faint seaweed	0.0	0.0	0.0	0.7	25.6	42.5	14.5	16.7	64.7	2.73	silt	< 5.5	33 ± 3.7	33	
				2025/1/20	Sunny	12.8	2.0	7.6	7	Olive black	Faint swamp	0.0	0.1	0.4	0.6	34.8	37.3	12.3	14.5	45.8	2.68	sand/silt	< 5.2	43 ± 3.5	43	
				2024/5/23	Sunny	23.5	0.3	21.7	3	Brownish black	None	0.0	0.0	3.9	34.1	57.5	0.6	1.4	2.5	78.8	2.70	sand	< 4.6	11 ± 2.1	11	
				2024/8/27	Cloudy	31.4	0.6	26.9	5	Brownish black	None	0.0	0.0	0.6	10.7	82.6	3.4	1.4	1.3	78.0	2.70	sand	< 5.0	12 ± 2.2	12	
21	Naruse River	Ono Bridge (Ono)	Higashi-Matsushima City	2024/11/7	Sunny	8.9	0.6	12.2	5	Olive black	None	0.0	0.0	0.1	0.9	57.1	26.9	7.3	7.7	60.7	2.67	sand/silt	< 6.1	31 ± 3.4	31	
				2025/1/20	Sunny	13.2	0.6	5.3	5	Olive black	Faint ditch	0.0	0.0	0.2	21.9	71.9	2.3	1.3	2.4	73.4	2.69	sand/silt	< 4.0	9.6 ± 1.6	9.6	
				2024/5/29	Sunny	23.0	0.8	21.0	5	Grayish yellow brown	Faint ditch	0.0	0.6	2.7	8.5	38.9	32.7	11.3	5.3	62.5	2.63	sand/gravel	< 6.4	16 ± 2.7	16	
				2024/8/1	Sunny	30.1	1.5	28.7	3	Brownish black	Faint swamp	0.0	0.0	2.7	13.7	49.5	26.1	3.5	4.5	78.3	2.65	silt/sand	< 4.5	11 ± 2.0	11	
				2024/11/22	Sunny	10.3	0.8	10.1	5	Dull yellow brown	Faint swamp	0.0	1.1	1.9	11.7	49.4	27.8	4.0	4.1	75.2	2.68	sand/silt	< 5.1	11 ± 2.1	11	
22	Sunaoshi River	Tagajozeki Weir	Tagajo City	2025/1/22	Sunny	10.1	0.7	6.5	5	Dark brown	Faint swamp	0.0	3.3	2.1	14.9	59.1	16.7	2.9	1.0	58.3	2.70	sand/silt	< 5.6	11 ± 2.9	11	
				2024/5/21	Sunny	21.4	2.8	18.5	3	Black	Faint ditch	0.0	0.0	2.0	4.4	20.0	15.0	43.2	15.4	45.3	2.63	silt	< 8.2	11 ± 3.1	11	
				2024/8/22	Cloudy	29.5	0.4	29.0	5	Gray	Faint ditch	0.0	0.0	1.2	3.5	13.0	19.3	49.0	14.0	40.5	2.57	silt	< 7.3	92 ± 4.9	92	
				2024/11/22	Cloudy	13.1	0.9	16.7	5	Olive black	Faint ditch	0.0	0.0	0.7	4.5	26.5	33.6	12.3	22.4	57.9	2.66	silt	< 5.6	55 ± 3.8	55	
				2025/1/16	Sunny	1.7	1.0	7.8	5	Olive black	None	0.0	1.3	2.0	5.4	27.1	25.1	17.8	21.3	52.2	2.64	silt	< 5.9	78 ± 4.3	78	
23	Nenbutsu Bridge	Tagajo City	Higashi-Matsushima City	2024/5/21	Sunny	22.0	1.8	20.9	3	Olive black	Faint ditch	0.0	0.0	0.9	1.5	47.9	35.8	8.0	5.9	69.3	2.64	silt	< 3.5	13 ± 1.7	13	
				2024/8/22	Cloudy	28.9	1.4	28.9	5	Gray	Faint seaweed	0.0	0.0	0.8	1.3	52.5	31.8	6.1	7.5	70.9	2.65	sand/silt	< 3.8	10 ± 1.6	10	
				2024/11/27	Sunny	20.1	2.4	12.7	5	Olive black	Faint algae	0.0	0.2	1.1	3.2	53.2	24.4	5.9	12.0	63.8	2.66	silt	< 5.4	19 ± 2.5	19	
				2025/1/16	Sunny	6.2	2.0	7.1	5	Black	Faint ditch	0.0	0.0	0.0	0.4	11.6	22.1	35.8	30.1	39.4	2.62	silt	< 7.6	71 ± 4.9	71	
				2024/5/21	Cloudy	22.3	0.3	18.8	3	Brownish black	None	0.0	0.9	24.1	22.1	43.9	7.9	0.0	1.1	80.4	2.71	sand/gravel	< 1.3	19 ± 0.79	19	
24	Teizan-unga Canal(Kyu-sunaoshi River)	Teizan Bridge	Shichigahama Town / Tagajo City	2024/8/22	Cloudy	28.9	1.4	28.9	5	Gray	Faint seaweed	0.0	0.0	0.8	1.3	52.5	31.8	6.1	7.5	70.9	2.65	sand/silt	< 3.8	10 ± 1.6	10	
				2024/11/27	Sunny	20.1	2.4	12.7	5	Olive black	Faint algae	0.0	0.2	1.1	3.2	53.2	24.4	5.9	12.0	63.8	2.66	silt	< 5.4	19 ± 2.5	19	
				2025/1/16	Sunny	6.2	2.0	7.1	5	Black	Faint ditch	0.0	0.0	0.0	0.4	11.6	22.1	35.8	30.1	39.4	2.62	silt	< 7.6	71 ± 4.9	71	
				2024/5/21	Cloudy	22.3	0.3	18.8	3	Brownish black	None	0.0	0.9	24.1	22.1	43.9	7.9	0.0	1.1	80.4	2.71	sand/gravel	< 1.3	19 ± 0.79	19	
				2024/8/26	Cloudy	28.6	0.4	24.3	5	Brownish black	Faint phytoplankton	0.0	1.1	24.8	31.2	36.3	3.6	2.0	1.0	77.2	2.62	sand/gravel	< 1.3	11 ± 0.70	11	
25	Nanakita River	Nanakita Bridge	Sendai City	2024/11/22	Sunny	11.1	0.3	9.7	5	Brownish black	Faint swamp	2.6	0.9	24.0	39.7	30.2	1.7	0.5	0.4	80.6	2.70	sand/gravel	< 1.9	10 ± 0.93	10	
				2025/1/15	Sunny	5.3	0.3	5.5	5	Brownish black	None	0.0	0.1	10.4	62.0	26.5	0.6	0.2	0.2	78.6	2.69	sand	< 2.4	9.4 ± 0.99	9.4	
				2024/5/15	Cloudy	21.2	0.4	20.2	5	Grayish yellow brown	Faint swamp	0.0	0.3	6.2	25.1	52.6	13.3	1.2	1.3	77.5	2.72	sand	< 3.3	5.4 ± 1.4	5.4	
				2024/8/1	Sunny	28.6	0.8	28.2	3	Dark olive brown	None	0.0	0.1	4.9	26.6	54.3	10.2	1.7	2.2	81.8	2.62	sand	< 3.8	5.4 ± 1.4	5.4	
				2024/11/13	Sunny	14.8	0.4	19.9	5	Olive black	Faint seaweed	0.0	1.6	6.1	26.7	41.7	20.1	3.2	0.6	79.7	2.72	sand/gravel	< 3.7	8.5 ± 1.6	8.5	
26	Fukuda-ohashi Bridge	Sendai City	Sendai City	2025/1/22	Sunny	5.0	1.0	8.9	5	Brownish black	Faint algae	0.0	3.7	9.8	25.2	41.5	14.4	2.6	2.8	77.5	2.72	sand/silt	< 3.9	6.8 ± 1.5	6.8	
				2024/5/15	Sunny	23.4	0.3	20.4	5	Brownish black	Faint swamp	0.0	0.0	0.2	0.5	49.1	41.8	3.9	4.5	66.6	2.66	silt/sand	< 6.5	47 ± 4.2	47	
				2024/8/1	Sunny	31.3	0.9	25.2	3	Brownish black	None	0.0	0.9	1.0	2.9	31.7	37.6	20.0	5.9	77.1	2.60	sand	< 4.8	18 ± 2.6	18	
				2024/11/13	Sunny	15.8	0.7	16.6	5	Black	Faint ditch	0.0	0.0	0.1	0.4	41.8	47.8	3.5	6.4	66.2	2.67	sand/silt	< 6.8	44 ± 4.0	44	
				2025/1/22	Sunny	4.8	0.6	5.8	5	Olive black	Faint ditch	0.0	0.0	0.2	0.2	34.4	54.3	5.0	5.9	69.6	2.66	silt/sand	< 5.5	36 ± 3.4	36	
27	Umeda River	Fukuda Bridge	Sendai City	2024/5/20	Cloudy	17.5	0.3	21.0	3	Brownish black	Faint seaweed	0.0	0.0	0.3	0.8	16.7	64.8	12.7	4.7	66.1	2.59	sand	< 4.9	20 ± 2.6	20	
				2024/8/1	Sunny	25.3	0.5	27.7	5	Olive black	Faint seaweed	0.0	0.0	0.3	3.8	80.4	11.4	2.7	1.4	61.4	2.67	sand/silt	< 5.2	28 ± 3.0	28	
				2024/11/21	Sunny	14.7	0.3	13.5	5	Olive black	Faint seaweed	0.0	0.0	0.0	0.7	12.2	60.8	11.7	14.6	61.4	2.58	silt/sand	< 4.6	26 ± 2.6	26	
				2025/1/22	Sunny	5.8	0.2	5.7	5	Olive black	Faint ditch	0.0	1.0	0.5	1.5	14.5	46.0	16.3	20.2	58.1	2.59	silt/sand	< 6.7	31 ± 3.6	31	
				2024/5																						

Miyagi River(Sediment) 3/3

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment														Activity concentration [Bq/kg(dry)]			Remarks					
	No.	Water Area	Location	Municipality						Sample length (cm)	Color	Odor	General items								Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium								
													Grain size distribution(%)					Coarse gravel	Medium gravel	Fine gravel				Coarse sand	Medium sand	Fine sand		silt	clay	Cs-134	Cs-137	Total
													Coarse sand	Medium sand	Fine sand	silt	clay															
Abukuma River System	33	Abukuma River	Hadeniwa Bridge	Marumori Town	2024/4/23	Cloudy	16.0	0.4	14.9	5	Dark brown	None	0.0	0.0	0.0	0.2	75.5	21.2	2.4	0.7	74.1	2.70	sand	< 5.8	78 ± 4.6	78						
					2024/5/17	Cloudy	19.3	0.8	16.7	5	Brownish black	None	0.0	0.0	0.0	0.2	71.3	25.0	2.2	1.3	72.4	2.72	sand	< 5.5	70 ± 4.3	70						
					2024/6/10	Sunny	20.4	0.9	20.7	5	Grayish yellow brown	None	0.0	0.0	0.0	0.1	50.4	22.3	25.8	1.4	73.2	2.71	sand	< 4.6	70 ± 4.2	70						
					2024/7/2	Sunny	29.6	0.7	24.4	5	Olive brown	None	0.0	0.0	0.0	0.3	66.8	29.6	2.0	1.3	72.8	2.80	sand	< 5.9	87 ± 4.5	87						
					2024/8/9	Sunny	33.2	0.7	27.8	5	Olive brown	None	0.0	0.0	0.0	0.4	75.6	21.3	1.4	1.3	73.4	2.69	sand	< 4.8	81 ± 4.2	81						
					2024/9/2	Sunny	31.8	0.6	26.7	5	Dark grayish yellow	Faint swamp	0.0	0.0	0.1	1.0	42.7	48.5	6.1	1.6	71.5	2.72	sand	< 5.1	160 ± 6.0	160						
					2024/10/4	Cloudy	22.5	0.5	20.6	5	Olive brown	None	0.0	0.0	0.1	0.4	87.4	11.9	0.1	0.1	75.0	2.73	sand	< 4.4	71 ± 4.1	71						
					2024/12/6	Light Rain	8.9	0.9	8.8	5	Olive brown	None	0.0	0.0	0.1	0.5	66.4	31.6	1.0	0.4	75.3	2.79	sand	< 4.7	71 ± 4.0	71						
					2025/1/10	Sunny	5.2	0.5	4.8	5	Dark brown	None	0.0	0.0	0.1	0.7	89.9	8.8	0.3	0.2	74.2	2.74	sand	< 4.6	70 ± 3.9	70						
					2025/2/3	Cloudy	3.3	0.5	4.0	5	Olive brown	Faint swamp	0.0	0.0	0.1	0.5	70.5	28.0	0.7	0.2	73.5	2.79	sand	< 6.2	89 ± 4.9	89						
					2024/4/23	Cloudy	15.2	0.5	15.4	5	Brownish black	None	0.0	0.4	39.1	32.3	14.6	11.7	1.1	0.8	84.6	2.68	sand/gravel	< 4.0	33 ± 2.7	33						
					2024/5/17	Sunny	19.2	0.4	17.3	5	Grayish olive	Faint swamp	0.0	0.8	3.9	3.8	20.8	49.4	15.5	5.8	56.0	2.67	sand/silt	< 8.3	220 ± 8.7	220						
					2024/6/10	Sunny	25.5	0.5	23.8	5	Grayish yellow brown	None	3.4	3.8	13.6	14.0	21.6	33.6	8.7	1.3	75.6	2.73	sand/gravel	< 4.8	97 ± 4.5	97						
					2024/7/2	Cloudy	28.4	0.4	25.5	5	Dark grayish yellow	None	0.0	1.2	30.4	53.4	11.9	1.3	0.8	1.0	81.9	2.69	gravel/sand	< 3.8	17 ± 2.0	17						
					2024/8/9	Sunny	33.4	0.6	27.9	5	Yellowish gray	Faint swamp	0.0	0.6	7.9	13.9	59.4	17.0	0.0	1.2	78.9	2.72	sand	< 5.0	58 ± 3.4	58						
	2024/9/2	Light Rain	29.7	0.7	26.8	5	Olive brown	Faint swamp	0.0	0.5	11.3	20.8	57.8	8.4	0.0	1.2	79.7	2.73	sand/gravel	< 3.8	34 ± 2.7	34										
	2024/10/4	Cloudy	21.4	0.3	20.8	5	Olive brown	None	0.0	0.6	7.7	32.7	50.3	7.9	0.3	0.5	78.7	2.70	sand/gravel	< 4.8	39 ± 3.2	39										
	2024/12/16	Sunny	7.6	0.5	7.1	4	Olive brown	Faint swamp	0.0	0.7	6.5	50.9	37.3	4.1	0.3	0.2	81.6	2.68	sand/gravel	< 4.4	26 ± 2.6	26										
	2025/1/10	Sunny	4.1	0.4	4.5	3	Dull yellow brown	Faint swamp	0.0	1.2	18.5	36.3	38.1	5.0	0.6	0.3	80.5	2.73	sand/gravel	< 3.9	31 ± 2.6	31										
	2025/2/3	Cloudy	5.2	0.3	4.6	4	Dark olive	Medium algae	0.0	0.9	12.8	46.6	34.8	4.4	0.3	0.2	81.6	2.72	sand/gravel	< 4.4	27 ± 2.6	27										
	35	Abukuma River	Higashine Bridge	Kakuda City	2024/4/23	Light Rain	15.2	0.4	15.6	5	Grayish brown	None	0.0	0.9	7.7	32.2	55.9	2.0	0.0	1.3	80.7	2.67	sand	< 5.9	20 ± 2.6	20						
					2024/6/12	Sunny	30.0	0.6	26.0	5	Olive brown	Faint swamp	0.0	0.0	0.4	9.1	80.8	8.3	0.7	0.7	74.2	2.68	sand	< 6.2	47 ± 3.7	47						
					2024/8/26	Cloudy	28.5	0.4	26.4	5	Yellow brown	None	0.0	0.8	26.3	36.9	34.3	0.8	0.0	0.9	82.0	2.66	sand/gravel	< 4.2	18 ± 2.5	18						
					2024/10/1	Sunny	27.0	0.5	23.0	5	Dull yellow brown	None	0.0	0.1	7.8	52.1	39.7	0.2	0.0	0.1	78.2	2.66	sand	< 5.7	15 ± 2.9	15						
					2024/12/16	Sunny	6.9	0.6	6.6	5	Olive brown	Faint swamp	0.0	1.1	20.6	49.5	27.2	1.2	0.2	0.2	81.6	2.68	sand/gravel	< 4.5	20 ± 2.8	20						
	36	Shiroishi River	Before the confluence with Kawaharokozawa (Sunaoshi Bridge)	Shiroishi City	2025/1/10	Cloudy	4.1	0.5	5.4	5	Olive brown	None	0.0	0.5	16.2	42.5	38.9	1.4	0.3	0.2	80.9	2.69	sand/gravel	< 4.8	13 ± 2.1	13						
					2024/4/22	Cloudy	21.0	0.7	10.2	5	Dull yellow brown	None	0.0	0.1	15.9	17.0	37.8	20.7	6.5	2.0	76.7	2.66	gravel/sand	< 5.0	92 ± 4.6	92						
					2024/7/4	Sunny	29.3	0.5	20.0	5	Dark grayish yellow	None	0.0	0.1	10.3	17.9	42.8	21.6	3.6	3.7	77.0	2.69	sand	< 4.3	49 ± 3.5	49						
					2024/11/15	Cloudy	15.5	0.5	14.4	5	Dark grayish yellow	None	0.0	0.3	6.5	14.2	49.7	22.0	4.4	2.9	75.9	2.66	sand/gravel	< 5.5	99 ± 5.0	99						
	37	Saikawa River	Etsubo Bridge	Shiroishi City	2025/1/14	Cloudy	4.2	0.3	4.9	5	Grayish yellow brown	None	0.0	0.2	5.2	18.1	53.9	17.7	2.4	2.5	75.1	2.67	sand	< 4.9	71 ± 4.2	71						
					2024/4/22	Cloudy	21.1	0.3	14.1	5	Dull yellow brown	Faint swamp	0.0	0.4	35.4	38.9	22.9	1.5	0.3	0.6	83.1	2.67	gravel/sand	< 4.8	23 ± 2.6	23						
					2024/7/3	Cloudy	28.3	0.5	24.6	5	Olive brown	None	0.0	1.0	55.3	31.9	9.8	1.4	0.0	0.6	85.3	2.66	gravel/sand	< 5.3	25 ± 2.5	25						
	38	Matsukawa River	Miya-ohashi Bridge	Zao Town	2024/11/15	Cloudy	17.6	0.3	13.2	5	Grayish yellow brown	Faint swamp	0.0	1.5	56.1	35.2	6.6	0.4	0.1	0.1	88.9	2.68	gravel/sand	< 4.5	18 ± 2.2	18						
2025/1/14					Sunny	7.5	0.6	4.7	5	Dark olive	Faint swamp	0.0	3.5	65.2	26.9	3.9	0.4	0.0	0.1	80.1	2.69	gravel/sand	< 4.1	16 ± 2.1	16							
2024/4/22					Sunny	19.8	0.5	14.5	8	Brownish black	None	0.0	0.4	21.2	22.0	46.8	6.0	2.4	1.2	82.0	2.81	gravel/sand	< 3.1	63 ± 1.2	63							
2024/7/3					Cloudy	24.1	0.5	21.1	5	Dark grayish yellow	None	0.0	0.0	3.3	14.1	68.9	11.9	0.4	1.4	76.3	2.77	sand/gravel	< 3.6	7.8 ± 1.5	7.8							
39	Arakawa River	Niragami Bridge	Murata Town /Ogawara Town	2024/11/15	Cloudy	15.0	0.3	12.3	5	Brownish black	Faint swamp	0.0	1.2	28.7	34.8	33.9	1.0	0.3	0.1	82.9	2.81	gravel/sand	< 3.0	4.3 ± 1.2	4.3							
				2025/1/14	Sunny	8.8	0.3	6.3	5	Brownish black	Faint phytoplankton	0.0	0.5	25.6	48.4	23.7	0.9	0.5	0.4	78.7	2.76	sand/gravel	< 3.5	8.2 ± 1.6	8.2							
				2024/5/23	Sunny	23.6	0.4	17.9	5	Brownish black	Faint swamp	0.0	0.2	10.3	35.2	47.8	4.0	1.2	1.3	78.2	2.69	sand/gravel	< 3.6	7.9 ± 1.7	7.9							
				2024/8/1	Sunny	29.4	0.5	27.3	5	Brownish black	Faint ditch	0.0	4.0	5.4	13.7	36.8	32.5	5.6	2.0	79.3	2.67	sand	< 3.9	19 ± 2.0	19							
				2024/11/15	Cloudy	16.7	0.6	13.0	5	Olive black	Faint ditch	0.0	3.2	16.9	22.5	45.7	10.0	1.3	0.4	83.1	2.77	sand/gravel	< 1.4	5.8 ± 0.61	5.8							
40	Shiroishi River	Shirahata Bridge	Shibata Town	2025/1/14	Sunny	10.2	0.3	6.3	5	Brownish black	Faint ditch	0.0	0.2	12.2	25.7	48.2	7.7	3.7	2.3	67.1	2.75	sand/silt	< 2.3	9.5 ± 1.1	9.5							
				2024/5/23	Sunny	26.8	0.5	21.3	5	Brownish black	Faint swamp	0.0	0.3	1.6	7.8	76.9	9.4	2.7	1.3	76.6	2.76	sand/gravel	< 4.4	20 ± 2.3	20							
				2024/8/1	Sunny	30.4	0.3	25.9	5	Yellowish gray	Faint algae	0.0	0.0	3.9	7.5	68.9	15.4	3.5	0.8	76.1	2.78	sand	< 4.7	20 ± 2.7	20							
				2024/11/15	Cloudy	15.3	0.4	12.8	5	Olive black	Faint ditch	0.0	0.0	0.5	7.2	80.2	8.1	3.1	0.9	77.0	2.70	sand/gravel	< 5.2	29 ± 3.1	29							
41	Abukuma River	Tsukinoki-ohashi Bridge	Kakuda City /Shibata Town	2025/1/14	Sunny	8.0	0.4	5.5	5	Dull yellow brown	Faint algae	0.0	0.0	1.0	17.5	76.4	3.6	0.9	0.6	74.4	2.73	sand	< 4.3	24 ± 2.8	24							
				2024/4/25	Sunny	21.2	0.3	16.7	5	Olive black	Faint ditch	0.0	0.0	0.1	0.1	5.8	38.3	44.2	11.5	46.5	2.60	silt/sand	< 8.7	150 ± 6.9	150							
				2024/6/12	Sunny	27.0	0.3	24.0	5	Yellowish gray	Faint ditch	0.0	0.1	0.1	0.4	10.7	46.0	33.2	9.5	62.0	2.63	silt/sand	< 5.9	130 ± 5.4	130							
				2024/8/2	Sunny	26.1	0.3	26.8	3	Brownish black	Faint ditch	0.0	0.0	0.1	0.3	12.9	51.6	25.1	10.0	53.9	2.63	silt/sand	< 6.2	130 ± 6.1	130							
				2024/10/4	Cloudy	20.9	0.3	19.9	5	Gray	Faint swamp	0.0	0.0	0.0	0.2	6.2	40.0	29.3	24.3	45.0	2.64	silt	< 7.4	200 ± 7.9	200							
				2024/12/16	Sunny	6.1	0.2	7.8	6	Olive black	Faint ditch	0.0	0.0	0.1	0.3	5.1	48.8	24.6	21.1	48.7	2.64	silt	< 7.0	140 ± 6.1	140							
42	Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	Iwanuma City/Watari Town	2025/1/10	Cloudy	4.4	0.2	6.0	5	Olive black	Faint ditch	0.0	0.0	0.0	0.2	7.5	33.5	31.4	27.4	46.1	2.64	silt	< 6.5	210 ± 7.4	210							
				2024/4/26	Sunny	21.8	0.5	16.2	5	Grayish yellow brown	Faint sewage	0.0	0.3	0.9	4.6	55.9	30.9	5.5	1.9	76.3	2.76	sand	< 7.5	39 ± 3.3	39							
				2024/5/21	Sunny	21.0	1.0	20.1	5	Brownish gray	None	0.0	0.0	0.5	3.1	78.5	16.3	0.9	0.7	76.4	2.78	sand	< 0.58	4.2 ± 0.23	4.2							
				2024/6/11	Sunny	25.4	1.0	23.1	5	Dark grayish yellow	Faint swamp	0.0	0.3	0.7	3.9	47.9	41.3	4.3	1.6	80.2	2.82	sand	< 0.90	25 ± 0.82	25							
				2024/7/4	Sunny	31.9	0.6	26.1	5	Dark grayish yellow	Faint swamp	0.0	0.0	1.0	4.5	57.3	33.6	2.3	1.3	78.3	2.82	sand	< 0.76	20 ± 0.52	20							
				2024/8/9	Sunny	32.1	0.7	28.3	5	Dark grayish yellow	Faint swamp	2.0	4.4	3.7	7.7	45.7	31.9	3.4	1.2	78.5	2.85	sand	< 0.93	29 ± 0.67	29							
				2024/9/2	Sunny	30.3	0.6	27.1	5	Dark grayish yellow	Faint swamp																					

Miyagi River(SE) 1/2

Location				Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil,Air dose)													Remarks			
							Left bank						Right bank										
							Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (µSv/h)	Color	Odor	Property	Activity concentration [Bq/kg(dry)]				Air dose (µSv/h)		
										Radioactive cesium							Radioactive cesium						
Cs-134	Cs-137	Total	Cs-134	Cs-137	Total																		
No.	Water Area	Location	Municipality																				
Rivers	Shishiori River	Kinzan Bridge	Kesennuma City	2024/5/16	Light Rain	21.0	Olive black	Faint earth	loamy	4.7 ± 1.4	92 ± 5.2	96.7	0.06	-	-	-	-	-	-	0.05	(Left bank)Unable to collect samples due to location inaccessibility.*1		
		Namiita Bridge		2024/8/23	Cloudy	27.3	Very dark brown	None	loamy	< 5.2	88 ± 5.0	88	0.06	-	-	-	-	-	-	-	0.05	(Left bank)Unable to collect samples due to location inaccessibility.*1	
				2024/5/16	Cloudy	20.7	-	-	-	-	-	-	-	0.03	-	-	-	-	-	-	-	0.03	Difficult to collect soils due to topography, etc.*2
		2024/8/23		Cloudy	27.5	-	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-	0.03	Difficult to collect soils due to topography, etc.*2	
		2024/5/17		Cloudy	16.2	Dark brown	Faint earth	loamy	< 5.7	49 ± 4.2	49	0.07	Brownish black	Faint earth	Loamy	< 5.3	19 ± 2.7	19	0.06	-	0.06	-	
		2024/8/23		Cloudy	27.0	Dark brown	Faint earth	loamy	< 5.7	44 ± 3.7	44	0.06	Brownish black	Faint earth	Loamy	< 6.0	16 ± 2.5	16	0.06	-	0.04	Difficult to collect soils due to topography, etc.*2	
	Okawa River	Kamiyama Bridge	Kesennuma City	2024/5/17	Cloudy	18.4	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-	-	0.04	Difficult to collect soils due to topography, etc.*2
				2024/8/23	Cloudy	29.8	-	-	-	-	-	-	-	0.03	-	-	-	-	-	-	-	0.03	Difficult to collect soils due to topography, etc.*2
		Okawa River Estuary		2024/5/17	Cloudy	17.1	Brownish black	Faint earth	loamy	< 5.5	10 ± 2.1	10	0.05	-	-	-	-	-	-	-	-	0.03	(Right bank)Difficult to collect soils due to topography, etc.*2
	Omose River	Ozaki Bridge		2024/8/23	Sunny	28.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	(Left bank)Unable to collect samples due to location inaccessibility.*1
				2024/5/16	Cloudy	20.1	-	-	-	-	-	-	-	-	0.03	-	-	-	-	-	-	-	0.04
	Rivers	Arima River	Unanda Bridge	Kurihara City	2024/5/17	Cloudy	13.3	Dark brown	Faint earth	loamy	< 5.6	290 ± 8.2	290	0.06	Dark brown	Faint earth	Loamy	9.1 ± 1.9	440 ± 8.2	449.1	0.07	-	
					2024/8/15	Sunny	32.2	Dark brown	Faint earth	loamy	< 5.7	290 ± 8.4	290	0.07	Dark brown	Faint earth	Loamy	9.1 ± 1.8	490 ± 9.0	499.1	0.07	-	
		Kinryu River	Obata Bridge	Kurihara City	2024/5/17	Cloudy	17.1	Dark brown	Faint earth	loamy	17 ± 2.7	830 ± 14	847	0.07	Dark brown	Faint earth	Loamy	< 7.1	510 ± 12	510	0.07	-	
					2024/8/15	Sunny	32.5	Dark brown	Faint earth	loamy	14 ± 2.4	730 ± 13	744	0.06	Brownish black	Faint earth	Loamy	9.1 ± 2.0	520 ± 10	529.1	0.06	-	
		Kitakami River	Tome-ohashi Bridge (Tome)	Tome City	2024/5/24	Sunny	27.5	Dark brown	Faint earth	loamy	< 5.3	140 ± 5.9	140	0.06	Dull yellow brown	Faint earth	Loamy	< 6.3	170 ± 6.5	170	0.04	-	
					2024/8/23	Cloudy	30.1	Dull yellow brown	Faint earth	loamy	< 6.6	99 ± 5.6	99	0.06	Dull yellow brown	Faint earth	Loamy	< 6.8	520 ± 13	520	0.05	-	
		Sanhasama River	Doman Bridge (Kurikoma)	Kurihara City	2024/5/14	Sunny	15.7	Dark brown	Faint earth	loamy	7.3 ± 4.7	620 ± 13	627.3	0.07	Dark brown	Faint earth	Loamy	< 6.9	430 ± 11	430	0.07	-	
					2024/8/20	Sunny	28.5	Dark brown	Faint earth	loamy	< 6.8	670 ± 12	670	0.06	Dark brown	Faint earth	Loamy	< 7.4	670 ± 12	670	0.07	-	
		Nihamasama River	Kajiya Bridge	Kurihara City	2024/5/14	Sunny	21.3	Dull yellow brown	Faint earth	loamy	9.0 ± 2.0	410 ± 9.5	419.0	0.07	Brown	Faint earth	Loamy	7.8 ± 2.5	530 ± 12	537.8	0.06	-	
					2024/8/19	Cloudy	31.0	Dull yellow brown	Faint earth	loamy	7.1 ± 1.7	350 ± 8.5	357.1	0.06	Brown	Faint earth	Loamy	< 6.9	620 ± 12	620	0.06	-	
		Hasama River	Wakayanagi	Tome City	2024/5/14	Sunny	19.0	Brownish black	Faint earth	loamy	8.6 ± 2.2	510 ± 11	518.6	0.06	Grayish yellow brown	Faint earth	Sandy	< 5.0	15 ± 2.5	15	0.05	-	
					2024/8/19	Sunny	27.5	Grayish yellow brown	Faint earth	loamy	9.1 ± 2.0	640 ± 11	649.1	0.06	Grayish yellow brown	None	Sandy	< 4.9	9.3 ± 1.7	9.3	0.05	-	
		Eai River	Todoroki Bridge (Todoroki)	Osaki City	2024/5/27	Cloudy	21.6	Brownish black	Faint earth	loamy	6.7 ± 1.9	290 ± 6.4	296.7	0.05	Dull yellow brown	None	Sandy	< 3.7	13 ± 1.8	13	0.04	-	
					2024/8/15	Sunny	34.3	Brownish black	Faint earth	loamy	< 5.8	150 ± 6.3	150	0.05	Brownish black	Faint earth	Sandy	< 4.0	17 ± 2.2	17	0.04	-	
		In Furukawa District	Shinborisaihon, entrance	Osaki City	2024/5/24	Sunny	28.8	Brown	Faint earth	loamy	< 5.2	51 ± 3.7	51	0.05	Dull yellow brown	Faint earth	Loamy	< 5.7	210 ± 7.3	210	0.04	-	
					2024/8/23	Sunny	31.3	Brown	Faint earth	loamy	< 6.4	32 ± 3.6	32	0.04	Dull yellow brown	Faint earth	Loamy	< 7.4	440 ± 12	440	0.05	-	
		Eai River	Shimizu lock gate	Osaki City	2024/5/7	Light Rain	16.8	Dull yellow brown	Faint earth	loamy	< 5.3	91 ± 4.6	91	0.06	Brownish black	Faint earth	Loamy	< 5.9	220 ± 7.0	220	0.06	-	
					2024/8/5	Cloudy	30.6	Grayish yellow brown	Faint earth	loamy	< 5.6	130 ± 5.7	130	0.05	Brownish black	Faint earth	Loamy	< 6.7	160 ± 6.6	160	0.06	-	
		Dekigawa River	Kogota Bridge	Misato Town	2024/5/22	Sunny	20.7	Dark brown	Faint earth	loamy	< 7.0	130 ± 5.5	130	0.06	Brownish black	Faint earth	Loamy	5.4 ± 1.6	160 ± 6.1	165.4	0.04	-	
					2024/8/2	Sunny	30.1	Grayish yellow brown	None	sandy	< 7.7	130 ± 5.8	130	0.05	Brownish black	Faint earth	Loamy	< 4.1	9.5 ± 1.6	9.5	0.05	-	
		Eai River	Oikawa Bridge (Tandai)	Wakuya Town / Ishinomaki City	2024/5/24	Cloudy	25.8	Grayish yellow brown	Faint earth	loamy	< 5.3	77 ± 4.2	77	0.05	Grayish yellow brown	Faint earth	Loamy	< 4.8	34 ± 3.1	34	0.05	-	
2024/8/27					Cloudy	28.2	Brownish black	Faint earth	loamy	< 6.2	70 ± 4.5	70	0.05	Dark brown	Faint earth	Loamy	< 5.8	40 ± 3.6	40	0.05	-		
Kyu-Kitakami River		Kadonowaki	Ishinomaki City	2024/5/23	Sunny	23.2	Brown	Faint earth	loamy	< 5.1	< 5.8	-	0.06	Dull yellow brown	Faint earth	Loamy	< 6.2	< 6.9	-	0.05	-		
				2024/8/27	Sunny	31.6	Dull yellow orange	Faint earth	loamy	< 4.7	< 6.6	-	0.05	Yellow brown	Faint earth	Loamy	< 5.6	< 6.4	-	0.04	-		
Naruse River		Ono Bridge (Ono)	Higashi-Matsumae City	2024/5/23	Sunny	23.5	Dark brown	Faint earth	loamy	< 7.0	140 ± 6.9	140	0.05	Dark brown	Faint earth	Loamy	< 6.4	130 ± 5.7	130	0.06	-		
				2024/8/27	Cloudy	31.4	Dark brown	Faint earth	loamy	< 6.8	100 ± 5.8	100	0.05	Dark brown	Faint earth	Loamy	< 5.8	120 ± 5.6	120	0.06	-		
Sunaoshi River		Tagajozeki Weir	Tagajo City	2024/5/29	Sunny	23.0	Brown	Faint earth	loamy	< 5.9	46 ± 3.9	46	0.04	Dull yellow brown	Faint earth	Loamy	< 6.8	160 ± 6.8	160	0.05	-		
				2024/8/1	Sunny	30.1	Dark brown	Faint earth	loamy	< 5.3	10 ± 1.8	10	0.04	Dull yellow brown	Faint earth	Loamy	< 4.7	140 ± 5.8	140	0.04	-		
Nenbutsu Bridge		Tagajo City	Tagajo City	2024/5/21	Sunny	21.4	Dark brown	Faint earth	loamy	< 4.2	91 ± 4.7	91	0.04	Brownish black	Faint earth	Loamy	< 6.1	11 ± 2.1	11	0.04	-		
				2024/8/22	Cloudy	28.5	Grayish yellow brown	Faint earth	loamy	< 5.7	410 ± 11	410	0.04	Grayish yellow brown	Faint earth	Loamy	< 6.5	210 ± 7.8	210	0.03	-		
Teizan-unga Canal (Kyu-sunaoshi River)		Teizan Bridge	Shichigahama Town / Tagajo City	2024/5/21	Sunny	22.0	Dark brown	Faint earth	loamy	< 5.6	9.9 ± 1.9	9.9	0.04	Dark brown	Faint earth	Loamy	< 7.1	120 ± 5.4	120	0.04	-		
				2024/8/22	Cloudy	28.9	Dull yellow brown	Faint earth	loamy	< 6.9	190 ± 7.4	190	0.05	Grayish yellow brown	Faint earth	Loamy	< 5.1	84 ± 5.0	84	0.04	-		
Nanakita River	Nanakita Bridge	Sendai City	2024/5/21	Cloudy	22.3	Brownish black	Faint earth	loamy	< 4.6	7.5 ± 1.7	7.5	0.04	Brownish black	Faint grass	Loamy	< 5.7	150 ± 5.8	150	0.04	-			
			2024/8/26	Cloudy	28.6	Dark brown	Faint earth	loamy	< 5.2	5.8 ± 1.6	5.8	0.04	Dark brown	Faint earth	Loamy	< 6.3	180 ± 6.7	180	0.04	-			
Umeda River	Fukuda-ohashi Bridge	Sendai City	2024/5/15	Cloudy	21.2	Grayish yellow brown	Faint earth	loamy	< 6.9	220 ± 8.2	220	0.04	Brownish black	Faint earth	Loamy	< 6.3	120 ± 5.7	120	0.04	-			
			2024/8/1	Sunny	28.6	Brownish black	Faint earth	loamy	< 4.9	140 ± 6.0	140	0.03	Brownish black	Faint earth	Loamy	< 5.0	110 ± 4.7	110	0.04	-			
Nanakita River	Takasago Bridge	Sendai City	2024/5/15	Sunny	23.4	Dark brown	Faint earth	loamy	7.9 ± 2.0	370 ± 10	377.9	0.05	Brownish black	Faint earth	Loamy	< 6.4	150 ± 6.8	150	0.06	-			
			2024/8/1	Sunny	31.3	Brownish black	Faint earth	loamy	< 5.2	310 ± 8.2	310	0.04	Brownish black	Faint earth	Loamy	< 5.0	160 ± 6.4	160	0.04	-			
Natori River	Yuriage-ohashi Bridge	Sendai City / Natori City	2024/5/20	Cloudy	17.5	Brownish black	Faint earth	loamy	< 4.8	< 5.4	-	0.04	Dark brown	Faint earth	Loamy	< 4.0	< 4.2	-	0.04	-			
			2024/8/1	Sunny	25.3	Dull yellow brown	Faint earth	loamy	< 4.0	5.5 ± 1.5	5.5	0.03	Dull yellow brown	Faint earth	Loamy	< 3.3	< 5.1	-	0.03	-			
Masuda River	Yakushi Bridge	Natori City	2024/5/17	Sunny	19.4	Dark brown	Faint earth	loamy	< 5.6	9.2 ± 2.2	9.2	0.03	Dark brown	Faint earth	Loamy	< 5.2	4.7 ± 1.6	4.7	0.03	-			
			2024/8/1	Sunny	24.2	Brownish black	Faint earth	loamy	< 6.0	11 ± 2.4	11	0.03	Dark brown	Faint earth	Loamy	< 6.5	< 6.4	-	0.04	-			
Bishamon Bridge	Natori City	Natori City	2024/5/29	Sunny	21.3	Dull yellow brown	Faint earth	loamy	< 4.9	42 ± 3.3	42	0.03	Dark brown	Faint earth	Loamy	< 8.9	100 ± 5.3	100	0.05	-			
			2024/8/26	Sunny	30.1	Dull yellow brown	Faint earth	loamy	< 4.9	67 ± 4.1	67	0.04	Dark brown	Faint earth	Loamy	< 5.9	130 ± 5.9	130	0.04	-			
Masuda River	Koyama Bridge	Natori City	2024/5/20	Cloudy	17.3	Dark brown	Faint earth	loamy	12 ± 2.1	390 ± 9.5	402	0.05	Dark brown	Faint earth	Loamy	< 7.8	160 ± 6.0	160	0.06	-			
			2024/8/2	Sunny	29.1	Dark brown	Faint earth	loamy	< 6.5	170 ± 7.0	170	0.07	Dark brown	Faint earth	Loamy	< 6.4	78 ± 4.8	78	0.06	-			
Masuda River	Bishamon Bridge	Natori City	2024/5/20	Cloudy	19.3	Brown	Faint earth	loamy	< 6.1	76 ± 4.9	76	0.04	Brownish black	Faint earth	Loamy	< 5.3	190 ± 6.9	190	0.05	-			
			2024/8/2	Sunny	31.7	Brownish black	Faint earth	loamy	< 4.6	200 ± 6.2	200	0.03	Dark brown	Faint earth	Loamy	< 5.0	190 ± 6.3	190	0.05	-			

Miyagi River(SE) 2/2

Location				Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil,Air dose)											Remarks			
							Left bank					Right bank									
No.	Water Area	Location	Municipality				Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)	Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)	
										Radioactive cesium							Radioactive cesium				
										Cs-134	Cs-137	Total					Cs-134	Cs-137	Total		
Rivers	Abukuma River System	Abukuma River	Hadeniwa Bridge	Marumori Town	2024/4/23	Cloudy	16.0	Dull yellow brown	Faint earth	sandy	< 5.2	170 ± 6.1	170	0.10	Brown	Faint earth	Loamy	< 6.7	430 ± 10	430	0.11
					2024/5/17	Cloudy	19.3	Dull yellow brown	Faint earth	sandy	< 4.1	110 ± 5.0	110	0.12	Dark brown	Faint earth	Loamy	8.8 ± 2.4	620 ± 13	628.8	0.10
					2024/6/10	Sunny	20.4	Dull yellow brown	Faint earth	sandy	< 6.3	79 ± 4.6	79	0.09	Dull yellow brown	Faint earth	Loamy	11 ± 2.7	460 ± 12	471	0.10
					2024/7/2	Sunny	29.6	Dull yellow orange	Faint earth	sandy	< 5.4	56 ± 3.8	56	0.09	Dull yellow brown	Faint earth	Loamy	8.5 ± 2.6	610 ± 13	618.5	0.11
					2024/8/9	Sunny	33.2	Grayish yellow brown	Faint earth	sandy	< 5.3	59 ± 3.6	59	0.09	Dull yellow brown	Faint earth	Loamy	9.6 ± 2.8	770 ± 15	779.6	0.10
					2024/9/2	Sunny	31.8	Brown	Faint earth	sandy	< 5.1	59 ± 3.9	59	0.09	Dull yellow brown	Faint earth	Loamy	< 7.6	450 ± 12	450	0.10
			2024/4/23	Cloudy	15.2	Dull yellow brown	Faint earth	sandy	< 4.8	170 ± 6.6	170	0.08	Dull yellow brown	Faint earth	Loamy	7.3 ± 2.1	370 ± 9.4	377.3	0.08		
			2024/5/17	Sunny	19.2	Dull yellow brown	Faint earth	loamy	< 5.8	150 ± 6.2	150	0.08	Dark brown	Faint earth	Loamy	< 6.0	340 ± 8.9	340	0.09		
			2024/6/10	Sunny	25.5	Dull yellow brown	Faint earth	loamy	< 6.7	190 ± 7.7	190	0.08	Dark brown	Faint earth	Loamy	< 6.2	370 ± 11	370	0.09		
			2024/7/2	Cloudy	28.4	Dull yellow brown	Faint earth	loamy	< 5.3	140 ± 6.2	140	0.08	Dull yellow brown	Faint earth	Loamy	< 7.0	340 ± 9.8	340	0.09		
			2024/8/9	Sunny	33.4	Dull yellow brown	Faint earth	loamy	< 6.6	160 ± 6.4	160	0.08	Dull yellow brown	Faint earth	Loamy	< 7.1	290 ± 9.0	290	0.09		
			2024/9/2	Light Rain	29.7	Brown	Faint earth	sandy	< 6.4	150 ± 6.7	150	0.08	Dull yellow brown	Faint earth	Loamy	7.5 ± 2.1	360 ± 9.5	367.5	0.09		
		2024/4/23	Light Rain	15.2	Grayish yellow brown	Faint earth	loamy	19 ± 2.9	980 ± 16	999	0.12	Dull yellow brown	Faint earth	Sandy	< 4.7	86 ± 4.4	86	0.06			
		2024/6/12	Sunny	30.0	Brown	Faint earth	loamy	12 ± 2.6	800 ± 15	812	0.11	Dull yellow brown	Faint earth	Sandy	< 4.3	120 ± 5.2	120	0.07			
		2024/8/26	Cloudy	28.5	Dark brown	Faint earth	loamy	14 ± 2.5	860 ± 14	874	0.08	Dull yellow brown	Faint earth	Sandy	< 5.0	86 ± 4.4	86	0.08			
		2024/4/22	Cloudy	21.0	Brownish black	Faint earth	loamy	13 ± 2.8	540 ± 12	553	0.09	Brown	Faint earth	Loamy	15 ± 3.1	1,100 ± 15	1,115	0.08			
		2024/7/4	Sunny	29.3	Dark brown	Faint earth	loamy	11 ± 2.2	690 ± 13	701	0.09	Dull yellow brown	Faint earth	Loamy	6.0 ± 2.0	430 ± 10	436.0	0.07			
		2024/4/22	Cloudy	21.1	Brown	None	sandy	< 5.7	250 ± 7.6	250	0.07	Grayish yellow brown	Faint earth	Loamy	< 6.5	550 ± 12	550	0.08			
		2024/7/3	Cloudy	28.3	Dull yellow brown	Faint earth	sandy	< 5.5	190 ± 6.7	190	0.07	Dull yellow brown	Faint earth	Loamy	11 ± 2.7	740 ± 14	751	0.07			
		2024/4/22	Sunny	19.8	Grayish yellow brown	Faint earth	loamy	< 5.7	220 ± 7.2	220	0.06	Dark brown	Faint earth	Loamy	11 ± 2.6	700 ± 14	711	0.07			
		2024/7/3	Cloudy	24.1	Brown	Faint earth	loamy	< 5.4	180 ± 6.4	180	0.06	Dull yellow brown	Faint earth	Loamy	11 ± 2.4	570 ± 12	581	0.07			
		2024/5/23	Sunny	23.6	Dull yellow brown	Faint earth	loamy	7.6 ± 1.8	300 ± 8.9	307.6	0.06	Dull yellow brown	Faint earth	Loamy	< 7.5	370 ± 11	370	0.06			
		2024/8/1	Sunny	29.4	Dull yellow brown	Faint earth	loamy	< 4.2	140 ± 4.8	140	0.05	Dark brown	Faint earth	Loamy	< 5.4	360 ± 8.4	360	0.05			
		2024/5/23	Sunny	26.8	Dull yellow brown	Faint earth	loamy	< 7.1	110 ± 5.9	110	0.05	Dull yellow brown	Faint earth	Loamy	< 6.1	18 ± 2.8	18	0.05			
		2024/8/1	Sunny	30.4	Dark brown	Faint earth	loamy	< 5.4	140 ± 5.7	140	0.06	Dull yellow brown	Faint earth	Loamy	< 4.5	11 ± 1.9	11	0.05			
		2024/4/25	Sunny	21.2	Dark brown	Faint earth	loamy	< 7.7	340 ± 10	340	0.05	Dark brown	Faint earth	Loamy	6.2 ± 2.0	270 ± 8.2	276.2	0.07			
		2024/6/12	Sunny	27.0	Dull yellow brown	Faint earth	sandy	8.6 ± 2.2	350 ± 12	358.6	0.05	Dull yellow brown	Faint earth	Loamy	< 7.1	240 ± 9.1	240	0.06			
		2024/8/2	Sunny	26.1	Dark brown	Faint earth	loamy	< 6.2	180 ± 6.6	180	0.05	Dark brown	Faint earth	Loamy	< 5.1	230 ± 7.3	230	0.07			
2024/4/26	Sunny	21.8	Brownish black	Faint grass	loamy	< 5.2	260 ± 7.3	260	0.06	Dark brown	Faint earth	Loamy	12 ± 2.2	550 ± 12	562	0.08					
2024/5/21	Sunny	21.0	Dark brown	Faint earth	loamy	< 4.7	82 ± 4.2	82	0.06	Dark brown	Faint earth	Loamy	7.8 ± 2.2	470 ± 11	477.8	0.08					
2024/6/11	Sunny	25.4	Dull yellow brown	Faint earth	loamy	< 5.6	100 ± 5.1	100	0.06	Dark brown	Faint earth	Loamy	8.9 ± 2.6	460 ± 12	468.9	0.09					
2024/7/4	Sunny	31.9	Dull yellow brown	Faint earth	loamy	< 6.7	83 ± 4.9	83	0.06	Dull yellow brown	Faint earth	Loamy	< 7.1	350 ± 11	350	0.07					
2024/8/9	Sunny	32.1	Dull yellow brown	Faint earth	loamy	< 7.9	110 ± 6.5	110	0.07	Dull yellow brown	Faint earth	Loamy	< 8.7	490 ± 13	490	0.08					
2024/9/2	Sunny	30.3	Brownish black	Faint earth	loamy	< 4.7	75 ± 4.3	75	0.05	Brownish black	Faint earth	Loamy	7.3 ± 2.1	410 ± 11	417.3	0.07					
2024/4/26	Sunny	20.2	Brownish black	Faint earth	loamy	< 4.9	31 ± 2.9	31	0.06	Dull yellow brown	Faint earth	Loamy	< 4.6	180 ± 6.5	180	0.04					
2024/6/11	Sunny	24.3	Dull yellow brown	Faint earth	loamy	< 6.1	31 ± 3.6	31	0.05	Dull yellow brown	Faint earth	Loamy	< 5.5	50 ± 3.8	50	0.04					
2024/8/1	Sunny	31.7	Dull yellow brown	Faint earth	loamy	< 5.0	26 ± 2.9	26	0.04	Dull yellow brown	Faint earth	Loamy	< 5.0	130 ± 5.4	130	0.05					

*1 Reasons for difficulty in entering the study area include winter closures, winter road closures, typhoons and other disasters, construction, etc.

*2 It may be difficult to collect soils due to artificial soil cover, topography, etc.

Miyagi Lakes (Water) 1/3

No.	Water Area	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks				
		Location	Municipality	Surface layer/Deep layer					General items						Activity concentration(Bq/L)								
									Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137					
44	Kitakami River System	Kurikoma Dam	Dam site	Kurihara City	Surface layer	2024/5/14	Sunny	20.7	0.5	16.3	0.0	Grayish yellow green	None	>0.5	6.3	4	1.6	< 0.69	< 0.61				
					Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
					Surface layer	2024/8/20	Sunny	29.5	0.8	27.2	0.0	Grayish greenish yellow	None	>0.8	10.5	5	3.0	< 0.62	< 0.65				
					Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
					Surface layer	2024/10/9	Cloudy	18.0	0.7	17.3	0.0	Grayish yellow green	None	>0.7	12.6	<1	1.5	< 0.50	< 0.72				
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water			
		Surface layer	2024/12/2		Sunny	10.5	0.8	5.4	0.0	Light grayish greenish yellow	None	>0.8	16.1	1	0.7	< 0.59	< 0.61						
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water			
		45	Kitakami River System		Hanayama Dam	Dam site	Kurihara City	Surface layer	2024/5/13	Light Rain	20.3	16.5	17.7	0.5	Grayish yellow green	None	1.8	5.8	3	2.9	< 0.48	< 0.60	
								Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Surface layer	2024/8/19			Sunny				30.9	17.2	28.5	0.5	Grayish greenish yellow	None	2.0	7.4	2	1.9	< 0.52	< 0.60				
Deep layer	-			-				-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Surface layer	2024/10/9			Cloudy	17.6	15.5		18.6	0.5	Dark grayish yellow green	None	2.7	10.2	2	1.5	< 0.75	< 0.58						
Deep layer	-			-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-			
Surface layer	2024/12/2			Sunny	8.6	15.0		8.5	0.5	Grayish reddish yellow	None	1.4	10.4	5	5.3	< 0.66	< 0.63						
Deep layer	-			-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-			
46	Kitakami River System	Naruko Dam	Dam site	Osaki City	Surface layer	2024/5/7	Cloudy	17.7	59.5	18.0	0.5	Dark grayish yellow green	None	3.5	7.9	2	1.6	< 0.49	< 0.42				
					Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to collect samples due to location inaccessibility.*		
					Surface layer	2024/8/5	Cloudy	29.6	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to collect samples due to location inaccessibility.*	
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
		Surface layer	2024/10/18		Cloudy	16.5	53.0	17.1	0.5	Dark grayish yellow green	None	3.0	10.1	2	1.8	< 0.47	< 0.52						
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
47	Kitakami River System	Lake Izunuma	Lake exit	Tome City	Surface layer	2024/5/16	Light Rain	19.8	0.7	21.5	0.0	Grayish reddish yellow	None	0.2	19.8	50	49	< 0.64	< 0.55				
					Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
		Surface layer	2024/10/16		Cloudy	21.3	0.4	19.6	0.0	Dark grayish yellow	None	0.2	16.0	18	15	< 0.59	< 0.58						
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water			
48	Kitakami River System	Lake Naganuma	Lake exit	Tome City	Surface layer	2024/5/16	Cloudy	20.0	0.8	21.4	0.0	Dark grayish greenish yellow	None	0.7	20.1	10	8.9	< 0.62	< 0.55				
					Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
					Surface layer	2024/8/7	Cloudy	31.6	0.8	32.2	0.0	Dark grayish greenish yellow	None	0.5	16.6	6	6.6	< 0.50	< 0.68				
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water			
		Surface layer	2024/10/16		Cloudy	21.8	1.1	20.1	0.0	Dark grayish greenish yellow	None	0.3	13.5	9	7.9	< 0.55	< 0.58						
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
49	Naruse River System	Shukunosawatameike Pond	Pond exit	Kurihara City	Surface layer	2024/5/16	Cloudy	19.7	0.8	20.4	0.0	Grayish reddish yellow	None	>0.8	10.4	7	2.5	< 0.61	< 0.55				
					Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water	
					Surface layer	2024/8/7	Sunny	31.0	0.7	33.3	0.0	Dark grayish greenish yellow	None	>0.7	10.5	1	1.4	< 0.64	< 0.51				
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water			
		Surface layer	2024/10/16		Cloudy	22.6	0.4	21.2	0.0	Grayish yellow	None	>0.4	10.3	3	1.9	< 0.62	< 0.63						
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
50	Naruse River System	Futatsuishi Dam	Dam site	Kami Town	Surface layer	2024/5/8	Sunny	15.1	42.0	15.1	0.5	Dark grayish greenish yellow	None	2.8	6.7	2	1.8	< 0.62	< 0.43				
					Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water	
					Surface layer	2024/8/6	Sunny	30.1	44.0	28.3	0.5	Light grayish yellow	None	2.5	6.3	6	3.1	< 0.60	< 0.44				
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
		Surface layer	2024/10/15		Sunny	23.8	38.8	18.1	0.5	Grayish yellow green	None	2.3	6.8	<1	1.1	< 0.64	< 0.60						
		Deep layer	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water		
Surface layer	2024/12/3	Sunny	11.4	44.5	9.6	0.5	Dark grayish greenish yellow	None	4.8	7.2	<1	0.8	< 0.70	< 0.54									
Deep layer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water					

Miyagi Lakes (Water) 2/3

No.	Water Area	Location			Surface layer/ Deep layer	Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks
		Location	Municipality	General items							Activity concentration(Bq/L)									
				Water temperature (°C)						Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium			
Cs-134	Cs-137																			
51	Naruse River System	Urushizawa Dam	Dam site	Kami Town	Surface layer	2024/5/8	Sunny	14.2	34.3	14.7	0.5	Grayish yellow green	None	3.0	4.6	2	2.5	< 0.62	< 0.55	
					Deep layer					7.4	33.3	-	None		4.8	2	1.7	< 0.60	< 0.52	
		Surface layer	2024/8/6	Sunny	31.6	34.6	29.5	0.5	Grayish greenish yellow	None	3.9	5.1	2	1.9	< 0.58	< 0.54				
		Deep layer					7.4	33.6	-	None		5.4	3	2.3	< 0.66	< 0.51				
		Surface layer	2024/10/15	Sunny	22.9	33.8	17.9	0.5	Dark grayish reddish yellow	None	2.3	5.8	2	2.4	< 0.67	< 0.58				
		Deep layer					8.9	32.8	-	None		5.7	5	4.8	< 0.38	< 0.40				
Surface layer	2024/12/3	Light Rain	9.1	26.2	7.5	0.5	Dark grayish yellow	None	2.8	6.8	3	3.2	< 0.52	< 0.71						
Deep layer					6.9	25.2	-	None		6.4	3	2.7	< 0.55	< 0.61						
52	Naruse River System	Minamikawa Dam	Dam site	Taiwa Town	Surface layer	2024/5/9	Cloudy	11.5	21.7	15.2	0.5	Grayish yellow green	None	2.5	9.3	<1	1.1	< 0.53	< 0.61	
					Deep layer					8.9	20.7	-	None		9.5	2	1.3	< 0.47	< 0.61	
		Surface layer	2024/8/21	Cloudy	29.3	18.1	29.7	0.5	Dark grayish yellow green	None	1.5	8.7	2	2.5	< 0.52	< 0.48				
		Deep layer					24.2	17.1	-	None		8.6	5	4.9	< 0.55	< 0.58				
		Surface layer	2024/10/11	Sunny	17.1	20.0	19.2	0.5	Grayish greenish yellow	None	1.8	7.7	4	1.7	< 0.50	< 0.68				
		Deep layer					9.5	19.0	-	None		8.0	4	2.4	< 0.45	< 0.60				
Surface layer	2024/12/10	Sunny	7.9	19.6	9.2	0.5	Grayish yellow	None	1.9	11.0	3	4.5	< 0.60	< 0.52						
Deep layer					8.4	18.6	-	None		10.4	5	5.2	< 0.54	< 0.52						
53	Naruse River System	Miyatoko Dam	Dam site	Taiwa Town	Surface layer	2024/5/9	Sunny	17.6	0.7	18.7	0.0	Grayish greenish yellow	None	>0.7	12.3	6	7.5	< 0.64	< 0.66	
					Deep layer					-	-	-	-		-	-	-	-	-	Collect samples from the upper layer due to shallow water
		Surface layer	2024/10/11	Sunny	19.5	0.7	20.3	0.0	Dark grayish greenish yellow	None	>0.7	11.0	2	1.7	< 0.41	< 0.61				
		Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water				
54	Sumaoshi River System	Sounoseki Dam	Dam site	Rifu Town	Surface layer	2024/5/10	Sunny	21.6	7.2	18.4	0.5	Grayish yellow green	None	2.4	19.4	2	0.7	< 0.67	< 0.66	
					Deep layer					13.4	6.2	-	None		20.4	3	1.1	< 0.62	< 0.58	
		Surface layer	2024/8/15	Sunny	35.6	5.0	32.9	0.5	Grayish yellow	None	1.8	18.2	5	1.9	< 0.64	< 0.48				
		Deep layer					23.4	4.0	-	None		20.8	9	4.8	< 0.61	< 0.58				
		Surface layer	2024/10/9	Cloudy	17.5	3.6	19.5	0.5	Grayish yellow	Faint phytoplankton	0.9	16.8	15	7.6	< 0.48	< 0.47				
		Deep layer					19.5	2.6	-	Faint phytoplankton		17.2	15	7.1	< 0.59	< 0.51				
Surface layer	2024/12/11	Light Rain	7.0	4.2	7.1	0.5	Dark grayish yellow	None	1.0	22.2	10	4.7	< 0.54	< 0.52						
Deep layer					6.6	3.2	-	None		22.3	8	4.4	< 0.64	< 0.48						
55	Nanakita River System	Nanakita Dam	Dam site	Sendai City	Surface layer	2024/5/10	Sunny	22.5	0.5	17.5	0.0	Grayish greenish yellow	None	70.5	8.0	3	1.9	< 0.67	< 0.54	
					Deep layer					-	-	-	-		-	-	-	-	-	Collect samples from the upper layer due to shallow water
		Surface layer	2024/8/21	Cloudy	28.2	0.6	27.8	0.0	Light grayish yellow	None	>0.6	9.0	8	4.1	< 0.64	< 0.61				
		Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water				
		Surface layer	2024/10/11	Cloudy	17.6	0.6	19.2	0.0	Grayish greenish yellow	None	>0.6	7.7	3	1.7	< 0.57	< 0.63				
		Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water				
Surface layer	2024/12/4	Cloudy	8.7	0.5	10.4	0.0	Dark grayish yellow green	None	>0.5	8.4	2	1.7	< 0.60	< 0.47						
Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water						
56	Marutazawatameike Pond	Pond exit	Sendai City	Surface layer	2024/5/15	Sunny	23.1	0.2	20.7	0.0	Light grayish reddish yellow	None	>0.2	20.3	19	11	< 0.62	< 0.66		
				Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water		
		Surface layer	2024/8/15	Sunny	32.6	0.1	34.3	0.0	Light grayish reddish yellow	None	>0.1	9.2	7	3.0	< 0.51	< 0.55				
		Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water				
		Surface layer	2024/10/15	Sunny	25.0	0.1	22.0	0.0	Light grayish reddish yellow	None	>0.1	23.8	18	12	< 0.62	< 0.61				
		Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water				
Surface layer	2024/12/5	Sunny	11.7	0.2	8.0	0.0	Light grayish reddish yellow	None	>0.2	27.9	14	7.9	< 0.62	< 0.54						
Deep layer					-	-	-	-		-	-	-	-	Collect samples from the upper layer due to shallow water						
57	Natori River System	Okura Dam	Dam site	Surface layer	2024/5/10	Sunny	20.0	26.6	16.7	0.5	Grayish yellow green	None	3.0	6.4	<1	0.7	< 0.59	< 0.48		
				Deep layer					11.6	25.6	-	None		5.9	3	0.9	< 0.61	< 0.52		
		Surface layer	2024/8/21	Sunny	28.6	21.6	28.2	0.5	Dark grayish yellow green	None	3.0	7.7	<1	0.8	< 0.61	< 0.68				
		Deep layer					22.0	20.6	-	None		7.9	2	1.1	< 0.50	< 0.68				
		Surface layer	2024/10/15	Sunny	22.2	27.4	19.0	0.5	Dark grayish greenish yellow	None	1.8	6.4	2	1.6	< 0.60	< 0.54				
		Deep layer					13.0	26.4	-	None		7.5	15	9.1	< 0.57	< 0.52				
Surface layer	2024/12/11	Light Rain	6.2	18.2	7.7	0.5	Dark grayish greenish yellow	None	1.8	9.2	5	5.2	< 0.47	< 0.40						
Deep layer					7.6	17.2	-	None		8.8	5	5.1	< 0.50	< 0.60						

Miyagi Lakes (Water) 3/3

No.	Water Area	Location			Surface layer/ Deep layer	Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks	
		Location	Municipality	General items							Activity concentration(Bq/L)										
				Water temperature (°C)						Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium				
Cs-134	Cs-137																				
58	Lake Amanuma	Lake exit	Sendai City	Surface layer	2024/5/15	Sunny	21.9	0.3	21.1	0.0	Light grayish reddish yellow	None	>0.3	16.2	7	5.4	< 0.56	< 0.61			
				Deep layer																Collect samples from the upper layer due to shallow water	
				Surface layer	2024/8/15	Sunny	31.0	0.4	27.4	0.0	Light grayish greenish yellow	None	>0.4	15.1	4	1.9	< 0.62	< 0.66			
				Deep layer																Collect samples from the upper layer due to shallow water	
				Surface layer	2024/10/15	Sunny	24.0	0.4	20.2	0.0	Light grayish greenish yellow	None	>0.4	27.3	7	4.1	< 0.55	< 0.51			
	Deep layer																Collect samples from the upper layer due to shallow water				
	Surface layer	2024/12/5	Cloudy	7.9	0.3	9.4	0.0	Grayish yellow	None	>0.3	25.0	2	1.7	< 0.62	< 0.58						
	Deep layer																Collect samples from the upper layer due to shallow water				
	59	Natori River System	Kamafusa Dam	Dam site	Kawasaki Town	Surface layer	2024/5/20	Cloudy	20.3	29.6	16.8	0.5	Grayish yellow green	None	2.1	9.7	4	2.5	< 0.55	< 0.58	
						Deep layer															
Surface layer						2024/8/1	Sunny	29.7	25.7	26.6	0.5	Dark grayish yellow green	None	3.0	10.0	2	1.4	< 0.64	< 0.61		
Deep layer																					
Surface layer						2024/10/3	Cloudy	19.5	26.6	21.0	0.5	Dark grayish greenish yellow	None	2.3	9.1	3	2.3	< 0.55	< 0.61		
Deep layer																					
Surface layer						2024/12/9	Sunny	6.5	23.7	9.1	0.5	Grayish yellow	None	2.5	12.1	4	3.5	< 0.69	< 0.65		
Deep layer																					
60	Natori River System	Tarumizu Dam	Dam site	Natori City	Surface layer	2024/5/29	Cloudy	21.0	0.5	22.2	0.0	Grayish yellow green	None	>0.5	9.5	2	2.0	< 0.69	< 0.55		
					Deep layer															Collect samples from the upper layer due to shallow water	
					Surface layer	2024/10/3	Cloudy	20.5	0.6	22.5	0.0	Dark grayish yellow green	None	>0.6	9.7	2	1.2	< 0.47	< 0.42		
Deep layer																Collect samples from the upper layer due to shallow water					
61	Abukuma River System	Murata Dam	Dam site	Murata Town	Surface layer	2024/5/28	Light Rain	17.6	0.5	19.5	0.0	Grayish greenish yellow	None	>0.5	10.1	6	3.4	< 0.46	< 0.51		
					Deep layer															Collect samples from the upper layer due to shallow water	
					Surface layer	2024/10/2	Sunny	27.8	0.6	25.1	0.0	Light grayish reddish yellow	None	>0.6	9.6	2	1.6	< 0.57	< 0.48		
					Deep layer															Collect samples from the upper layer due to shallow water	
62	Abukuma River System	Kawarago Dam	Dam site	Shiroishi City	Surface layer	2024/5/22	Sunny	21.2	0.8	16.9	0.0	Grayish yellow	None	>0.8	8.2	1	0.6	< 0.64	< 0.47		
					Deep layer															Collect samples from the upper layer due to shallow water	
					Surface layer	2024/8/2	Sunny	28.6	0.4	27.7	0.0	Light grayish greenish yellow	None	>0.4	7.6	4	2.3	< 0.59	< 0.58		
					Deep layer															Collect samples from the upper layer due to shallow water	
					Surface layer	2024/10/2	Sunny	27.3	0.6	19.2	0.0	Light grayish greenish yellow	None	>0.6	8.3	7	3.1	< 0.48	< 0.48		
					Deep layer															Collect samples from the upper layer due to shallow water	
63	Abukuma River System	Shichikasyuku Dam	Dam site	Shichikashuku Town	Surface layer	2024/5/22	Sunny	19.3	34.1	16.7	0.5	Dark grayish yellow green	None	4.8	6.5	2	1.4	< 0.62	< 0.58		
					Deep layer																
					Surface layer	2024/8/2	Sunny	28.5	35.7	26.2	0.5	Dark grayish yellow green	None	6.0	7.0	1	0.5	< 0.73	< 0.47		
					Deep layer																
					Surface layer	2024/10/2	Sunny	24.5	38.0	22.0	0.5	Grayish yellow green	None	4.9	6.8	<1	1.0	< 0.54	< 0.51		
					Deep layer																
64	Lake Bagyunuma	Lake exit	Shiroishi City	Surface layer	2024/5/21	Cloudy	19.9	1.0	20.1	0.0	Light grayish yellow	None	0.7	7.1	11	5.8	< 0.35	< 0.66			
				Deep layer															Collect samples from the upper layer due to shallow water		
				Surface layer	2024/8/2	Sunny	31.9	0.5	31.0	0.0	Light grayish reddish yellow	None	0.4	18.3	30	34	< 0.60	< 0.60			
				Deep layer															Collect samples from the upper layer due to shallow water		
				Surface layer	2024/10/1	Sunny	26.0	1.3	26.3	0.0	Grayish reddish yellow	None	0.6	15.2	18	16	< 0.64	< 0.55			
				Deep layer															Collect samples from the upper layer due to shallow water		
Surface layer	2024/12/9	Sunny	7.1	1.0	6.9	0.0	Light grayish reddish yellow	None	0.4	16.0	22	24	< 0.56	< 0.52							
Deep layer																Collect samples from the upper layer due to shallow water					

* Reasons for difficulty in entering the study area include winter closures, winter road closures, typhoons and other disasters, construction, etc.

Miyagi Lakes (Sediment) 1/2

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment														Activity concentration [Bq/kg(dry)]			Remarks					
No.	Water Area	Location	Municipality					Sediment temperature (°C)	Sample length (cm)	Color	Odor	General items						Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium									
												Grain size distribution(%)									Cs-134	Cs-137	Total							
				Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay																			
44	Kitakami River System	Kurikoma Dam	Dam site	Kurihara City	2024/5/14	Sunny	20.7	0.5	16.5	5	Brown	None	0.0	0.0	1.8	1.1	2.9	15.9	64.7	13.6	47.9	2.56	silt/sand	< 7.3	37 ± 4.0	37				
					2024/8/20	Sunny	29.5	0.8	27.2	5	Brown	Faint swamp	0.0	0.8	1.1	2.9	10.2	31.1	48.6	5.3	54.3	2.60	silt	< 5.7	24 ± 2.7	24				
					2024/10/9	Cloudy	18.0	0.7	17.5	5	Dull yellow brown	Faint swamp	0.0	2.0	17.4	20.1	35.5	10.7	6.8	7.5	63.2	2.90	sand/silt	< 5.3	10 ± 2.0	10				
					2024/12/2	Sunny	10.5	0.8	5.9	3	Brownish black	Faint swamp	0.0	2.5	3.0	4.8	24.3	22.8	27.6	15.0	58.2	2.70	silt/sand	< 6.2	42 ± 3.6	42				
		45		Hanayama Dam	Dam site	Kurihara City	2024/5/13	Light Rain	20.3	16.5	8.2	5	Brownish gray	Faint ditch	0.0	0.0	0.0	0.2	0.4	0.4	56.3	42.7	19.9	2.49	silt	< 8.8	150 ± 6.0	150		
							2024/8/19	Sunny	30.9	17.2	7.5	5	Gray	Faint ditch	0.0	0.0	0.0	0.3	0.3	0.6	66.0	32.8	19.7	2.49	silt	< 7.3	120 ± 5.0	120		
							2024/10/9	Cloudy	17.6	15.5	7.6	5	Grayish olive	Faint ditch	0.0	0.0	0.0	0.1	0.2	0.8	24.5	74.4	19.8	2.54	silt	< 8.5	130 ± 5.6	130		
							2024/12/2	Sunny	8.6	15.0	8.0	6	Olive black	Faint ditch	0.0	0.0	0.0	0.1	0.0	0.1	35.5	64.3	18.7	2.56	silt	< 7.4	140 ± 4.9	140		
		46		Naruko Dam	Dam site	Osaki City	2024/5/7	Cloudy	17.7	59.5	5.1	8	Dark olive	Faint ditch	0.0	0.0	0.0	0.0	0.1	0.4	56.2	43.3	35.8	2.55	silt	< 5.3	53 ± 3.0	53		
							2024/8/5	Cloudy	29.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							2024/10/18	Cloudy	16.5	53.0	7.4	5	Grayish olive	Faint ditch	0.0	0.0	0.0	0.0	0.1	1.0	53.2	45.7	34.0	2.58	silt	< 6.6	69 ± 4.3	69		
							2024/12/4	Light Rain	9.9	56.6	7.5	6	Grayish olive	Faint ditch	0.0	0.0	0.0	0.2	0.7	2.6	33.9	62.6	34.9	2.63	silt	< 7.8	56 ± 4.1	56		
47		Lake Izunuma	Lake exit	Tome City	2024/10/16	Light Rain	19.8	0.7	19.9	5	Olive black	Faint swamp	0.0	0.8	5.3	3.8	16.8	34.2	31.4	7.7	38.0	2.48	silt	< 6.9	58 ± 4.1	58				
					2024/10/16	Cloudy	21.3	0.4	19.9	5	Olive black	Faint ditch	0.0	0.0	0.0	0.6	2.0	22.3	34.7	40.4	28.8	2.47	silt	< 8.0	57 ± 4.5	57				
					2024/5/16	Cloudy	20.0	0.8	19.9	5	Olive black	Faint ditch	0.0	0.1	3.9	2.3	27.6	53.4	8.7	4.0	53.3	2.52	sand/silt	< 4.2	73 ± 3.4	73				
					2024/8/7	Cloudy	31.6	0.8	28.4	5	Gray	Faint ditch	0.0	0.3	4.5	3.5	33.5	47.6	7.1	3.5	60.5	2.55	sand/silt	< 4.5	57 ± 3.2	57				
48		Lake Naganuma	Lake exit	Tome City	2024/10/16	Cloudy	21.8	1.1	19.8	5	Olive black	Faint ditch	0.0	0.0	0.0	2.5	13.3	50.6	18.1	15.5	35.2	2.52	sand/silt	< 7.1	97 ± 5.5	97				
					2024/12/5	Sunny	8.7	1.0	8.7	5	Olive black	Faint swamp	0.0	0.1	1.9	1.5	31.9	53.3	7.4	3.9	55.6	2.59	sand/silt	< 4.3	51 ± 3.0	51				
					2024/5/16	Cloudy	19.7	0.8	20.1	5	Dark brown	Faint swamp	0.0	0.5	11.8	15.2	46.5	16.4	5.6	4.0	76.0	2.62	sand/gravel	< 3.1	43 ± 2.3	43				
					2024/8/7	Sunny	31.0	0.7	31.2	5	Brownish black	Faint ditch	0.0	0.0	12.0	13.8	27.9	14.5	21.4	10.4	74.1	2.59	sand	< 3.8	30 ± 2.3	30				
49		Shukunosawatameike Pond	Pond exit	Kurihara City	2024/10/16	Cloudy	22.6	0.4	21.4	5	Grayish yellow brown	Faint swamp	0.0	4.9	34.5	26.1	24.7	6.6	1.3	1.9	82.1	2.70	sand/gravel	< 3.2	100 ± 3.4	100				
					2024/12/5	Cloudy	8.6	0.6	9.3	3	Olive black	Faint swamp	0.0	0.4	6.6	14.2	48.7	19.6	5.1	5.4	70.8	2.65	sand/silt	< 4.9	65 ± 3.6	65				
					2024/5/8	Sunny	15.1	42.0	7.1	5	Olive black	Faint ditch	0.0	0.0	0.0	0.0	0.5	4.9	68.6	26.0	28.3	2.48	silt	< 7.2	58 ± 3.6	58				
					2024/8/6	Sunny	30.1	44.0	5.2	5	Gray	Faint ditch	0.0	0.0	0.0	0.1	0.2	0.4	61.6	37.7	25.7	2.52	silt	< 9.5	47 ± 4.6	47				
50		Futatsuishi Dam	Dam site	Kami Town	2024/10/15	Sunny	23.8	38.8	8.3	8	Gray	Faint ditch	0.0	0.0	0.0	0.0	0.1	0.1	28.8	71.0	24.3	2.54	silt	< 7.5	44 ± 4.0	44				
					2024/12/3	Sunny	11.4	44.5	5.1	6	Grayish olive	Faint ditch	0.0	0.0	0.0	0.1	0.0	0.3	29.6	70.0	24.2	2.59	silt	< 9.3	91 ± 5.4	91				
					2024/5/8	Sunny	14.2	34.3	5.5	8	Gray	None	0.0	0.0	0.0	0.0	0.1	0.3	63.8	35.8	32.9	2.52	silt	< 3.9	43 ± 2.2	43				
					2024/8/6	Sunny	31.6	34.6	6.4	5	Olive gray	Faint sewage	0.0	0.0	0.0	0.0	0.2	0.4	68.9	30.5	32.3	2.53	silt	< 5.4	34 ± 2.5	34				
51		Urushizawa Dam	Dam site	Kami Town	2024/10/15	Sunny	22.9	33.8	9.1	8	Grayish olive	Faint ditch	0.0	0.0	0.0	0.1	0.0	0.2	37.7	62.0	28.1	2.53	silt	< 6.6	35 ± 3.9	35				
					2024/12/3	Light Rain	9.1	26.2	6.4	6	Grayish olive	Faint ditch	0.0	0.0	0.0	0.2	0.1	0.3	38.1	61.3	29.0	2.57	silt	< 9.4	44 ± 4.2	44				
					2024/5/9	Cloudy	11.5	21.7	6.9	5	Olive black	Faint ditch	0.0	0.0	0.0	0.2	2.2	1.9	76.2	19.5	20.3	2.41	silt	< 6.9	66 ± 3.6	66				
					2024/8/21	Cloudy	29.3	18.1	7.6	5	Gray	Faint ditch	0.0	0.0	0.0	0.3	1.8	2.6	76.3	19.0	20.3	2.42	silt	< 7.7	78 ± 4.1	78				
52		Minamikawa Dam	Dam site	Taiwa Town	2024/10/11	Sunny	17.1	20.0	7.5	5	Grayish olive	Faint ditch	0.0	0.0	0.0	0.1	0.1	0.5	17.6	81.7	20.0	2.50	silt	< 9.9	65 ± 5.0	65				
					2024/12/10	Sunny	7.9	19.6	7.7	6	Grayish olive	Faint sewage	0.0	0.0	0.0	0.1	0.3	0.4	17.3	81.9	17.2	2.44	silt	< 7.1	72 ± 3.7	72				
					2024/5/9	Sunny	17.6	0.7	18.8	5	Brown	Faint swamp	0.0	1.3	27.0	14.1	24.3	19.2	9.7	4.4	67.8	2.65	sand/gravel	< 2.1	4.2 ± 0.72	4.2				
					2024/10/11	Sunny	19.5	0.7	20.3	5	Brown	None	0.0	0.7	30.0	21.3	25.1	14.0	3.2	5.7	73.7	2.68	gravel/sand	< 3.0	3.0 ± 0.78	3.0				
53		Miyatoko Dam	Dam site	Rifu Town	2024/5/10	Sunny	21.6	7.2	21.3	5	Dull yellow brown	None	0.0	0.7	6.8	9.3	56.1	22.2	1.2	3.7	74.3	2.67	sand	< 4.0	8.1 ± 1.6	8.1				
					2024/8/15	Sunny	35.6	5.0	31.1	5	Olive black	Faint swamp	0.0	7.5	11.9	17.5	47.5	13.4	1.1	1.1	77.3	2.70	sand	< 3.8	7.2 ± 1.4	7.2				
					2024/10/9	Cloudy	17.5	3.6	19.6	5	Brownish black	None	0.0	0.8	4.6	13.7	64.3	15.7	0.6	0.3	76.5	2.71	sand	< 3.6	6.5 ± 1.3	6.5				
					2024/12/11	Light Rain	7.0	4.2	6.5	5	Brownish black	Faint swamp	0.0	0.1	3.4	10.5	58.0	25.1	1.5	1.4	63.9	2.69	sand/gravel	< 5.5	12 ± 2.2	12				
54	Sunaoshi River System	Sounoseki Dam	Dam site	Rifu Town	2024/5/10	Sunny	22.5	0.5	17.5	5	Brownish gray	Faint swamp	0.0	0.0	8.0	18.8	43.5	17.7	7.2	4.8	69.3	2.46	sand	< 2.4	10 ± 0.91	10				
					2024/8/21	Cloudy	28.2	0.6	25.8	5	Gray	None	0.0	1.8	22.6	19.7	28.5	14.4	7.6	5.4	51.1	2.37	sand/gravel	< 3.9	15 ± 1.7	15				
					2024/10/11	Cloudy	17.6	0.6	19.5	5	Yellow brown	Faint swamp	0.0	0.1	5.2	12.6	40.7	26.8	7.3	7.3	61.5	2.49	sand	< 0.86	1.4 ± 0.32	1.4				
					2024/12/4	Cloudy	8.7	0.5	10.8	3	Dull yellow	Faint swamp	0.0	1.3	9.2	13.0	38.1	21.8	7.4	9.2	59.9	2.48	sand/gravel	< 0.91	1.4 ± 0.30	1.4				
55	Nanakita River System	Nanakita Dam	Dam site	Sendai City	2024/5/15	Sunny	23.1	0.2	18.5	5	Brownish gray	Faint swamp	0.0	0.7	5.4	4.9	16.8	27.5	38.1	6.6	39.3	2.46	silt/sand	< 7.7	150 ± 6.7	150				
					2024/8/15	Sunny	32.6	0.1	33.5	5	Olive brown	Faint ditch	0.0	0.2	12.2	12.6	11.9	36.5	20.7	5.9	75.1	2.66	silt/sand	< 3.3	26 ± 2.0	26				
					2024/10/15	Sunny	25.0	0.1	22.0	5	Dark grayish yellow	Faint ditch	0.0	0.9	18.3	9.0	15.9	31.7	10.5	13.7	59.4	2.65	silt/sand	< 4.5	40 ± 2.9	40				
					2024/12/5	Sunny	11.7	0.2	8.7	3	Olive black	Faint swamp	0.0	0.0	5.6	7.3	20.5	31.1	19.0	16.5	48.7	2.59	silt/sand	< 5.0	120 ± 5.5	120				
56	Marutazawatameike Pond	Pond exit	Sendai City	2024/5/10	Sunny	20.0	26.6	16.9	5	Brownish gray	Faint swamp	0.0	1.0	29.3	22.9	19.8	19.3	3.9	3.8	76.4	2.56	gravel/sand	< 0.93	1.2 ± 0.29	1.2					
				2024/8/21	Sunny	28.6	21.6	21.6	5	Dark grayish yellow	Faint swamp	0.0	1.3	2.8	6.6	51.1	24.6	7.9	5.7	61.9	2.55	sand/gravel	< 1.4	24 ± 0.84	24					
				2024/10/15	Sunny	22.2	27.4	16.2	5	Brown	None	0.0	0.3	10.8	23.9	47.7	10.7	3.5	3.1	67.5	2.62	sand/gravel	< 1.6	11 ± 0.77	11					
				2024/12/11	Light Rain	6																								

Miyagi Lakes(Sediment) 2/2

	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment																Remarks		
	No.	Water Area	Location	Municipality						Sample length (cm)	Color	Odor	General items								Sediment content (%)	Density (Mg/m ³)	Property	Activity concentration [Bq/kg(dry)]				
													Grain size distribution(%)											Radioactive cesium				
													Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay				Cs-134	Cs-137		Total	
Lakes and Reservoirs	61	Abukuma River System	Murata Dam	Dam site	Murata Town	2024/5/28	Light Rain	17.6	0.5	19.7	5	Grayish yellow brown	Faint swamp	0.0	0.1	11.5	11.6	23.1	20.8	17.5	15.4	63.7	2.57	silt/sand	< 5.3	55 ± 4.1	55	
						2024/10/2	Sunny	27.8	0.6	25.0	5	Brownish black	None	0.0	0.4	10.7	16.2	35.4	20.4	8.2	8.7	63.3	2.60	sand/silt	< 6.3	21 ± 2.9	21	
	62	Abukuma River System	Kawarago Dam	Dam site	Shiroishi City	2024/5/22	Sunny	21.2	0.8	17.1	5	Bright brown	Faint swamp	0.0	0.0	0.3	0.6	3.7	8.1	74.9	12.4	51.1	2.58	silt/sand	< 6.1	12 ± 2.5	12	
						2024/8/2	Sunny	28.6	0.4	30.7	5	Brown	Faint ditch	0.0	0.0	0.6	6.3	30.8	20.4	31.2	10.7	54.4	2.59	sand/silt	< 6.0	43 ± 3.6	43	
						2024/10/2	Sunny	27.3	0.6	18.9	5	Dark brown	None	0.0	0.0	1.9	2.6	8.4	17.4	29.9	39.8	50.4	2.65	sand/silt	< 8.1	41 ± 4.0	41	
	63	Abukuma River System	Shichikasyuku Dam	Dam site	Shichikashuku Town	2024/12/9	Sunny	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2024/5/22	Sunny	19.3	34.1	7.2	5	Gray	Faint ditch	0.0	0.0	0.0	0.0	0.1	0.1	50.3	49.5	34.3	2.57	silt	< 8.3	200 ± 7.4	200	
						2024/8/2	Sunny	28.5	35.7	8.7	5	Gray	Faint ditch	0.0	0.0	0.0	0.0	0.0	0.2	57.5	42.3	31.7	2.61	silt	< 7.6	160 ± 6.9	160	
						2024/10/2	Sunny	24.5	38.0	17.2	8	Grayish olive	Faint ditch	0.0	0.0	0.0	0.0	0.1	0.2	52.3	47.4	32.1	2.66	silt	< 8.9	200 ± 8.1	200	
						2024/12/10	Sunny	5.3	39.4	9.9	5	Gray	Faint ditch	0.0	0.0	0.0	0.1	0.0	0.1	28.0	71.8	34.1	2.67	silt	< 8.6	320 ± 10	320	
	64	Lake Bagyunuma	Lake exit	Shiroishi City	2024/5/21	Cloudy	19.9	1.0	19.0	5	Brownish gray	Faint ditch	0.0	0.0	1.2	3.1	11.9	18.7	51.1	14.0	25.3	2.23	silt	8.6 ± 2.6	550 ± 10	558.6		
					2024/8/2	Sunny	31.9	0.5	30.0	5	Brownish black	Faint ditch	0.0	0.0	4.5	6.5	17.5	20.6	38.5	12.4	21.9	2.29	silt	< 7.5	640 ± 10	640		
					2024/10/1	Sunny	26.0	1.3	22.5	5	Olive black	Faint ditch	0.0	0.0	5.1	6.6	16.4	15.0	18.8	38.1	35.7	2.41	silt	8.6 ± 1.7	420 ± 6.9	428.6		
2024/12/9					Sunny	7.1	1.0	7.3	5	Olive black	Faint sewage	0.0	1.8	5.7	4.1	7.1	10.4	25.4	45.5	21.6	2.31	silt	< 9.7	660 ± 13	660			

* Reasons for difficulty in entering the study area include winter closures, winter road closures, typhoons and other disasters, construction, etc.

Miyagi Lakes (SE) 1/1

No.		Location			Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil, Air dose)							Air dose (μSv/h)	Remarks
								Soil			Activity concentration [Bq/kg(dry)]					
		Color	Odor	Property				Radioactive cesium								
								Cs-134	Cs-137	Total						
Lakes and Reservoirs	Kitakami River System	Kurikoma Dam	Dam site	Kurihara City	2024/5/14	Sunny	20.7	Brownish black	Faint earth	loamy	11 ± 2.6	830 ± 15	841	0.07		
					2024/8/20	Sunny	29.5	Brownish black	Faint earth	loamy	13 ± 2.3	740 ± 12	753	0.07		
		Hanayama Dam	Dam site	Kurihara City	2024/5/13	Light Rain	20.3	Brownish gray	Faint earth	loamy	6.3 ± 1.8	400 ± 9.8	406.3	0.07		
					2024/8/19	Sunny	30.9	Brownish black	Faint earth	loamy	7.1 ± 2.2	670 ± 12	677.1	0.07		
		Naruko Dam	Dam site	Osaki City	2024/5/7	Cloudy	17.7	Brownish black	Faint earth	loamy	< 6.5	290 ± 8.8	290	0.06		
					2024/8/5	Cloudy	29.6	Brownish black	Faint earth	loamy	< 6.0	200 ± 6.3	200	0.05		
		Lake Izunuma	Lake exit	Tome City	2024/5/16	Light Rain	19.8	Dull yellow brown	Faint earth	loamy	< 6.0	7.3 ± 2.3	7.3	0.04		
					2024/5/16	Cloudy	20.0	Black	Faint earth	loamy	6.7 ± 2.0	370 ± 9.5	376.7	0.05		
	Lake Naganuma	Lake exit	Tome City	2024/8/7	Cloudy	31.6	Gray	Faint earth	loamy	< 4.7	210 ± 6.5	210	0.05			
				2024/5/16	Cloudy	19.7	Dull yellow brown	Faint earth	loamy	< 5.1	130 ± 5.7	130	0.05			
	Shukunosawatameike Pond	Pond exit	Kurihara City	2024/8/7	Sunny	31.0	Dull yellow brown	Faint earth	loamy	< 6.1	110 ± 5.5	110	0.04			
				2024/5/8	Sunny	15.1	Brownish black	Faint earth	loamy	< 6.8	280 ± 8.5	280	0.05			
	Naruse River System	Futatsuishi Dam	Dam site	Kami Town	2024/8/6	Sunny	30.1	Dark brown	Faint earth	loamy	< 7.1	300 ± 9.2	300	0.04		
					2024/5/8	Sunny	14.2	Dark brown	Faint earth	loamy	< 5.7	180 ± 6.9	180	0.04		
Urushizawa Dam		Dam site	Kami Town	2024/8/6	Sunny	31.6	Dull yellow brown	Faint earth	loamy	8.4 ± 2.2	200 ± 8.0	208.4	0.05			
				2024/5/9	Cloudy	11.5	Grayish yellow brown	Faint earth	loamy	< 5.4	230 ± 7.4	230	0.03			
Minamikawa Dam		Dam site	Taiwa Town	2024/8/21	Cloudy	29.3	Dark brown	Faint earth	loamy	< 4.0	200 ± 6.3	200	0.03			
				2024/5/9	Sunny	17.6	Dark olive brown	Faint earth	clay-loamy	< 10	240 ± 7.5	240	0.05			
Miyatoko Dam	Dam site	Taiwa Town	2024/5/10	Sunny	21.6	Dull yellow orange	Faint earth	loamy	< 6.3	300 ± 8.7	300	0.05				
Sunaoshi River System	Sounoseki Dam	Dam site	Rifu Town	2024/8/15	Sunny	35.6	Dull yellow brown	Faint earth	loamy	< 7.1	460 ± 11	460	0.04			
				2024/5/10	Sunny	22.5	Brownish black	Faint earth	loamy	< 7.5	130 ± 6.2	130	0.04			
Nanakita River System	Nanakita Dam	Dam site	Sendai City	2024/8/21	Cloudy	28.2	Dull yellow brown	Faint earth	loamy	< 5.1	49 ± 3.3	49	0.04			
				2024/5/15	Sunny	23.1	Dark brown	Faint earth	loamy	< 5.5	150 ± 6.4	150	0.03			
Marutazawatameike Pond			Sendai City	2024/8/15	Sunny	32.6	Dull yellow brown	Faint earth	loamy	< 4.9	39 ± 3.2	39	0.04			
				2024/5/10	Sunny	20.0	Brownish black	Faint earth	loamy	< 7.5	170 ± 7.0	170	0.03			
Natori River System	Okura Dam	Dam site	Sendai City	2024/8/21	Sunny	28.6	Brownish black	Faint earth	loamy	< 4.8	74 ± 3.7	74	0.04			
				2024/5/15	Sunny	21.9	Dark brown	Faint earth	loamy	< 6.0	170 ± 6.7	170	0.05			
Lake Amanuma			Sendai City	2024/8/15	Sunny	31.0	Dark brown	Faint earth	loamy	< 4.9	120 ± 5.8	120	0.05			
				2024/5/20	Cloudy	20.3	Brownish black	Faint earth	loamy	< 4.9	110 ± 5.0	110	0.04			
Natori River System	Kamafusa Dam	Dam site	Kawasaki Town	2024/8/1	Sunny	29.7	Brownish black	Faint earth	loamy	< 5.3	160 ± 6.0	160	0.03			
				2024/5/29	Cloudy	21.0	Dark brown	Faint earth	loamy	< 7.5	240 ± 8.4	240	0.04			
Tatumizu Dam	Dam site	Natori City	Sendai City	2024/5/28	Light Rain	17.6	Brownish black	Faint earth	loamy	7.3 ± 1.6	320 ± 7.5	327.3	0.06			
				2024/5/22	Sunny	21.2	Brownish black	Faint earth	loamy	13 ± 2.4	820 ± 13	833	0.05			
Abukuma River System	Kawarago Dam	Dam site	Shiroishi City	2024/8/2	Sunny	28.6	Brownish black	Faint earth	loamy	6.7 ± 1.7	230 ± 7.0	236.7	0.05			
				2024/5/22	Sunny	19.3	Dull yellow brown	Faint earth	loamy	< 5.2	110 ± 5.3	110	0.09			
Shichikasyuku Dam	Dam site	Shichikashuku Town	Sendai City	2024/8/2	Sunny	28.5	Dull yellow brown	Faint earth	loamy	< 6.1	490 ± 11	490	0.09			
				2024/5/21	Cloudy	19.9	Very dark brown	Faint earth	loamy	19 ± 3.2	1,500 ± 19	1,519	0.11			
Lake Bagyunuma			Shiroishi City	2024/8/2	Sunny	31.9	Brownish black	Faint earth	loamy	24 ± 3.1	1,400 ± 18	1,424	0.13			

Miyagi Coastal(Water) 1/2

No.	Location		Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Activity concentration(Bq/L)		Remarks
							General items							Radioactive cesium					
	Water Area						Surface layer/ Deep layer	Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Salinity (%)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137		
65	Kesenuma Bay (B)	Offshore of Hachigasaki	Surface layer	2024/5/21	Sunny	22.8	16.0	18.1	0.5	Dark grayish yellowish green	None	3.2	32.8	1	2.0	< 0.70	< 0.55		
			Deep layer					13.7	15.0	-	None		34.3	3	1.1	< 0.50	< 0.61		
			Surface layer	2024/8/9	Sunny	27.5	18.5	25.8	0.5	Dark grayish yellow green	None	2.6	31.3	3	3.5	< 0.44	< 0.52		
			Deep layer					20.1	17.5	-	None		33.5	3	0.9	< 0.45	< 0.55		
			Surface layer	2024/11/20	Cloudy	-4.3	17.8	15.9	0.5	Dark grayish green	None	5.0	33.2	3	1.4	< 0.49	< 0.58		
			Deep layer					16.1	16.8	-	None		33.3	5	1.8	< 0.55	< 0.51		
Surface layer	2025/1/23	Sunny	1.3	17.2	9.6	0.5	Dark grayish green	None	6.5	33.6	1	0.5	< 0.59	< 0.52					
Deep layer					10.5	16.2	-	None		33.7	2	0.5	< 0.64	< 0.63					
66	Kesenuma Bay (C)	Offshore of Oshimakita	Surface layer	2024/5/21	Sunny	21.6	37.6	17.6	0.5	Dark grayish blue green	None	4.0	30.3	2	1.7	< 0.59	< 0.51		
			Deep layer					11.7	36.6	-	None		34.3	8	2.3	< 0.67	< 0.61		
			Surface layer	2024/8/9	Sunny	28.2	37.8	26.4	0.5	Dark grayish yellow green	None	5.8	31.9	2	2.1	< 0.60	< 0.55		
			Deep layer					18.6	36.8	-	None		33.7	4	1.3	< 0.72	< 0.69		
			Surface layer	2024/11/20	Cloudy	-4.9	40.2	17.8	0.5	Dark grayish blue green	None	7.5	33.8	3	0.8	< 0.57	< 0.55		
			Deep layer					16.1	39.2	-	None		34.0	4	1.3	< 0.50	< 0.48		
Surface layer	2025/1/23	Sunny	2.8	37.5	12.3	0.5	Dark grayish blue green	None	12.0	34.0	1	0.3	< 0.64	< 0.52					
Deep layer					13.1	36.5	-	None		34.3	4	0.8	< 0.44	< 0.61					
67	Offshore of Tsuyagawa River Estuary	Offshore of Tsuyagawa River Estuary	Surface layer	2024/5/22	Sunny	25.0	9.6	14.4	0.5	Dark grayish yellowish green	None	4.0	34.2	3	1.8	< 0.57	< 0.55		
			Deep layer					12.9	8.6	-	None		34.3	2	0.9	< 0.63	< 0.61		
			Surface layer	2024/11/20	Sunny	9.2	12.2	18.2	0.5	Dark grayish blue green	None	>12.2	34.1	3	0.8	< 0.84	< 0.62		
			Deep layer					18.1	11.2	-	None		34.1	3	0.5	< 0.65	< 0.55		
68	All other neighboring sea areas	Oppa Bay (Jyusanhama Beach)	Surface layer	2024/5/10	Sunny	18.5	16.2	16.4	0.5	Dark grayish bluish green	None	3.5	29.0	3	0.3	< 0.64	< 0.55		
			Deep layer					14.8	15.2	-	None		34.4	2	1.0	< 0.61	< 0.45		
			Surface layer	2024/8/1	Sunny	28.7	16.6	22.1	0.5	Grayish greenish yellow	None	0.9	16.2	10	5.9	< 0.62	< 0.58		
			Deep layer					19.4	15.6	-	None		33.6	4	0.7	< 0.62	< 0.58		
			Surface layer	2024/11/11	Sunny	17.7	16.9	17.7	0.5	Dark grayish green	None	7.5	32.2	1	0.6	< 0.55	< 0.61		
			Deep layer					18.3	15.9	-	None		33.8	<1	0.3	< 0.57	< 0.48		
Surface layer	2025/2/3	Cloudy	6.5	16.2	9.9	0.5	Dark grayish bluish green	None	4.5	30.8	3	1.1	< 0.66	< 0.61					
Deep layer					11.5	15.2	-	None		34.2	3	1.0	< 0.57	< 0.47					
69	Neighboring sea area of Ishinomaki (C)	Lake Mangokuura , M-6 (center)	Surface layer	2024/5/23	Sunny	22.1	2.6	19.0	0.5	Dark grayish yellowish green	None	1.6	33.1	6	3.0	< 0.66	< 0.61		
			Deep layer					17.6	1.6	-	None		33.3	7	3.4	< 0.64	< 0.61		
			Surface layer	2024/8/1	Sunny	27.5	3.3	26.9	0.5	Grayish yellowish green	None	1.8	31.5	6	3.2	< 0.64	< 0.64		
			Deep layer					24.4	2.3	-	None		31.9	7	2.7	< 0.60	< 0.66		
			Surface layer	2024/11/26	Sunny	12.0	3.0	13.9	0.5	Dark grayish yellowish green	None	>3.0	33.6	1	0.9	< 0.66	< 0.58		
			Deep layer					12.5	2.0	-	None		33.5	2	0.9	< 0.51	< 0.64		
Surface layer	2025/1/23	Cloudy	9.2	2.7	8.5	0.5	Dark grayish yellowish green	None	>2.7	33.8	2	0.5	< 0.59	< 0.47					
Deep layer					8.5	1.7	-	None		33.8	3	0.6	< 0.68	< 0.74					
70	Neighboring sea area of Ishinomaki (B-3)	Offshore of Kitakami River Estuary	Surface layer	2024/5/24	Cloudy	21.2	7.9	19.3	0.5	Dark grayish yellow green	None	3.0	23.6	5	3.4	< 0.52	< 0.55		
			Deep layer					17.7	6.9	-	None		33.5	2	1.6	< 0.58	< 0.61		
			Surface layer	2024/8/6	Sunny	29.5	7.2	27.6	0.5	Dark grayish yellow green	None	0.8	17.2	13	5.7	< 0.55	< 0.69		
			Deep layer					26.1	6.2	-	None		30.6	5	2.5	< 0.62	< 0.71		
			Surface layer	2024/11/12	Sunny	13.5	7.5	17.4	0.5	Dark grayish bluish green	None	4.5	28.7	3	1.5	< 0.53	< 0.61		
			Deep layer					18.2	6.5	-	None		33.4	4	1.7	< 0.70	< 0.51		
Surface layer	2025/1/18	Sunny	5.2	6.4	10.2	0.5	Dark grayish yellow green	None	4.0	33.7	3	1.8	< 0.60	< 0.58					
Deep layer					10.4	5.4	-	None		33.9	5	2.1	< 0.66	< 0.51					
71	Neighboring sea area of Ishinomaki (C)	Offshore of Naruse	Surface layer	2024/5/24	Cloudy	22.1	14.4	19.0	0.5	Dark grayish yellowish green	None	2.5	30.9	3	3.5	< 0.53	< 0.58		
			Deep layer					14.3	13.4	-	None		34.2	5	4.2	< 0.55	< 0.69		
			Surface layer	2024/8/6	Cloudy	30.0	12.6	28.2	0.5	Grayish greenish yellow	None	1.0	25.5	4	6.6	< 0.67	< 0.68		
			Deep layer					20.9	11.6	-	None		33.3	2	0.8	< 0.59	< 0.61		
			Surface layer	2024/11/12	Sunny	15.1	14.7	17.7	0.5	Dark grayish bluish green	None	6.5	32.7	1	0.8	< 0.53	< 0.69		
			Deep layer					18.4	13.7	-	None		33.4	15	5.9	< 0.52	< 0.58		
Surface layer	2025/1/18	Sunny	5.3	12.8	12.3	0.5	Dark grayish green	None	7.0	34.2	2	0.5	< 0.60	< 0.51					
Deep layer					12.1	11.8	-	None		34.3	2	0.6	< 0.55	< 0.58					

Coastal areas

Miyagi Coastal(Water) 2/2

No.	Location		Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Activity concentration(Bq/L)		Remarks	
							General items							Radioactive cesium						
	Water Area	Surface layer/Deep layer					Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Salinity (%)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137				
72	Matsushima Bay (B)	Nishihama Beach	Surface layer	2024/5/22	Sunny	17.2	11.9	18.8	0.5	Dark grayish yellow green	None	1.5	32.4	11	5.0	< 0.53	< 0.51			
			Deep layer					16.2	10.9	-	None		33.7	43	18	< 0.53	< 0.64			
				Surface layer	2024/8/20	Sunny	29.5	11.0	29.7	0.5	Grayish yellow green	None	0.9	29.0	12	7.5	< 0.50	< 0.58		
				Deep layer					25.6	10.0	-	None		26.3	9	5.2	< 0.65	< 0.58		
				Surface layer	2024/11/14	Sunny	15.3	12.9	14.4	0.5	Dark grayish yellow green	None	4.6	32.2	3	1.4	< 0.65	< 0.55		
				Deep layer					14.2	11.9	-	None		32.3	4	1.7	< 0.54	< 0.51		
			Surface layer	2025/1/15	Cloudy	4.7	13.1	6.5	0.5	Dark grayish green	None	3.3	33.4	4	2.0	< 0.55	< 0.61			
			Deep layer					6.6	12.1	-	None		33.2	5	2.0	< 0.54	< 0.58			
	73	Neighboring sea area of Sendai Port (A)	Naiko Inner Port, 4-Nai	Surface layer	2024/5/22	Sunny	20.5	16.4	17.3	0.5	Dark grayish green	None	2.0	33.3	4	3.7	< 0.62	< 0.58		
				Deep layer					14.7	15.4	-	None		34.1	6	4.2	< 0.62	< 0.58		
					Surface layer	2024/8/20	Sunny	28.9	15.8	28.9	0.5	Dark grayish yellow green	None	1.5	28.9	6	7.2	< 0.60	< 0.55	
					Deep layer					21.8	14.8	-	None		24.2	9	4.7	< 0.58	< 0.66	
				Surface layer	2024/11/14	Sunny	14.9	17.6	18.0	0.5	Dark grayish yellowish green	None	4.2	32.8	1	1.6	< 0.55	< 0.51		
				Deep layer					18.8	16.6	-	None		33.5	6	2.4	< 0.68	< 0.55		
		Surface layer	2025/1/15	Cloudy	5.1	17.8	10.5	0.5	Dark grayish bluish green	None	3.0	33.8	3	1.5	< 0.58	< 0.55				
		Deep layer					10.5	16.8	-	None		33.9	55	18	< 0.42	< 0.48				
74	Neighboring sea area of Sendai Port (B)	Gamo-3	Surface layer	2024/5/22	Sunny	20.3	16.0	17.5	0.5	Dark grayish yellow green	None	4.5	33.4	<1	1.2	< 0.66	< 0.58			
			Deep layer					14.6	15.0	-	None		34.2	4	2.6	< 0.59	< 0.58			
				Surface layer	2024/8/20	Cloudy	28.8	16.0	29.0	0.5	Dark grayish yellow green	None	1.9	27.1	6	5.6	< 0.54	< 0.63		
				Deep layer					21.9	15.0	-	None		22.1	7	4.1	< 0.63	< 0.48		
				Surface layer	2024/11/14	Sunny	12.7	16.8	18.9	0.5	Dark grayish yellow green	None	4.5	33.0	4	2.6	< 0.62	< 0.47		
				Deep layer					19.3	15.8	-	None		33.7	7	3.3	< 0.51	< 0.61		
		Surface layer	2025/1/15	Cloudy	5.7	16.9	10.7	0.5	Dark grayish green	None	3.2	34.2	3	1.6	< 0.54	< 0.58				
		Deep layer					11.3	15.9	-	None		34.3	11	6.5	< 0.60	< 0.58				
75	All other neighboring sea areas	Ido-5	Surface layer	2024/5/22	Sunny	19.9	4.1	17.2	0.5	Dark grayish yellowish green	None	2.8	32.8	4	2.7	< 0.60	< 0.64			
			Deep layer					17.0	3.1	-	None		33.5	3	1.7	< 0.64	< 0.58			
				Surface layer	2024/8/20	Sunny	31.0	6.2	28.3	0.5	Grayish yellow green	None	2.2	24.4	5	2.6	< 0.65	< 0.63		
				Deep layer					27.5	5.2	-	None		31.9	4	1.6	< 0.57	< 0.48		
				Surface layer	2024/11/14	Sunny	10.7	6.4	18.9	0.5	Dark grayish yellowish green	None	4.3	33.3	3	1.6	< 0.71	< 0.52		
				Deep layer					18.4	5.4	-	None		33.2	8	2.5	< 0.59	< 0.40		
		Surface layer	2025/1/15	Cloudy	5.2	6.2	10.0	0.5	Dark grayish yellow green	None	3.5	33.2	4	2.0	< 0.59	< 0.63				
		Deep layer					10.3	5.2	-	None		34.2	7	2.6	< 0.71	< 0.63				
76	Offshore of Abukuma River Estuary	Offshore of Abukuma River Estuary	Surface layer	2024/5/16	Light Rain	16.5	9.9	17.3	0.5	Dark grayish green	None	3.0	32.7	4	1.7	< 0.69	< 0.63			
			Deep layer					16.5	8.9	-	None		33.6	2	0.5	< 0.77	< 0.58			
					Surface layer	2024/6/6	Sunny	20.3	8.5	19.2	0.5	Grayish yellow green	None	2.0	31.7	6	4.1	< 0.62	< 0.47	
					Deep layer					17.7	7.5	-	None		33.5	4	1.8	< 0.66	< 0.36	
					Surface layer	2024/7/4	Sunny	27.2	9.5	22.6	0.5	Dark grayish yellow green	None	2.5	32.1	3	2.0	< 0.54	< 0.55	
					Deep layer					17.3	8.5	-	None		34.2	2	1.5	< 0.57	< 0.48	
					Surface layer	2024/8/8	Sunny	30.5	9.9	28.2	0.5	Dark grayish yellow green	None	2.0	30.1	3	0.8	< 0.73	< 0.64	
					Deep layer					22.8	8.9	-	None		33.1	4	1.8	< 0.56	< 0.61	
					Surface layer	2024/9/5	Sunny	28.3	9.2	26.3	0.5	Dark grayish yellow green	None	2.4	29.2	6	2.7	< 0.54	< 0.55	
					Deep layer					24.8	8.2	-	None		32.6	3	1.3	< 0.51	< 0.47	
					Surface layer	2024/10/16	Cloudy	22.6	9.1	23.0	0.5	Dark grayish yellow green	None	3.5	33.5	4	1.8	< 0.55	< 0.63	
					Deep layer					23.0	8.1	-	None		33.7	3	2.0	< 0.62	< 0.58	
					Surface layer	2024/11/8	Sunny	9.1	9.7	19.2	0.5	Dark grayish green	None	3.1	32.6	4	1.9	< 0.64	< 0.55	
					Deep layer					20.8	8.7	-	None		33.9	3	0.8	< 0.73	< 0.58	
		Surface layer	2024/12/12	Sunny	6.4	10.0	14.5	0.5	Dark grayish green	None	5.5	33.5	2	1.0	< 0.51	< 0.37				
		Deep layer					15.4	9.0	-	None		34.0	2	1.2	< 0.53	< 0.61				
		Surface layer	2025/1/9	Cloudy	6.0	10.0	11.3	0.5	Grayish green	None	1.5	34.0	5	3.2	< 0.37	< 0.58				
		Deep layer					12.2	9.0	-	None		34.5	8	4.6	< 0.61	< 0.55				
		Surface layer	2025/2/15	Sunny	4.4	9.4	8.9	0.5	Dark grayish blue green	None	5.5	31.1	2	1.4	< 0.52	< 0.55				
		Deep layer					9.1	8.4	-	None		34.2	1	0.9	< 0.57	< 0.63				



Survey Locations (Miyagi Prefecture)