

Results of the FY2016 Analysis of Radioactive Strontium

The analysis of radioactive strontium was conducted for locations where activity concentrations of radioactive cesium in sediments were relatively high.

As a result, activity concentrations of Sr-90 were in the range of not detectable to 100Bq/kg(dry).

Location				Sampling Date	Sediment									
					General items (see above)			Activity concentration [Bq/kg(dry)]						
Prefecture	Water Body/Point				Sample length (cm)	Sediment content (%)	Property	Radioactive cesium (see above)		Radioactive Strontium				
	River						Cs-134	Cs-137	Total	Sr-90				
Miyagi Prefecture	River	Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	2016/4/25	3	51.6	Sand/silt	110	620	730	0.43			
				2016/12/12	3	67.7	Sand/silt	5.1	36	41.1	<0.33			
	Lake and reservoirs	Sounoseki Dam	Dam site		2016/8/13	5	16.3	Silt	290	1,800	2,090	0.92		
					2016/12/15	5	16.6	Silt	220	1,400	1,620	1.3		
		Lake Amanuma	Lake exit		2016/8/3	3	62.5	Sand/silt	210	1,300	1,510	<0.27		
					2016/12/14	3	19.7	Silt	430	2,800	3,230	0.48		
		Shichikasyuku Dam	Dam site		2016/5/26	5	33.3	Silt	510	2,800	3,310	0.84		
					2016/12/13	5	30.7	Silt	480	3,200	3,680	1.1		
	Lake Bagyunuma	Lake exit		2016/5/26	5	17.6	Silt/sand	160	930	1,090	0.97			
				2016/10/13	5	17.5	Silt	130	870	1,000	0.82			
	Coastal area	Offshore of Abukuma River Estuary				2016/7/5	5	71.9	Sand	18	110	128	<0.34	
						2016/10/11	6	74.3	Sand	14	91	105	<0.28	
Fukushima Prefecture	Rivers	Manogawa River	Majima Bridge	2016/8/28	5	69.9	Silt/sand	42	310	352	<0.30			
				2016/10/9	5	56.8	Silt/sand	62	360	422	<0.30			
		Ota River	Masuda Bridge	2016/8/27	5	47.0	Silt/sand	800	4,400	5,200	<0.31			
				2016/12/7	3	72.2	Sand/silt	350	2,100	2,450	<0.32			
		Ukedo River	Murohara Bridge	2016/8/6	3	77.3	Sand/gravel	1,300	7,300	8,600	0.49			
				2016/11/3	3	75.6	Sand/gravel	790	4,800	5,590	0.38			
		Abukuma River	Taisho Bridge	2016/12/8	3	78.6	Sand/gravel	11	74	85	<0.46			
				2016/4/29	3	79.6	Sand/gravel	39	230	269	<0.34			
		Kyu-yukawa River	Awanomiya Bridge	2016/5/7	10	43.1	Silt	87	530	617	0.45			
				2016/12/11	3	26.8	Silt	100	710	810	0.68			
				2016/5/9	7	20.8	Silt	3,300	17,000	20,300	2.3			
				2016/10/14	8	6.9	Silt	3,400	20,000	23,400	1.3			
	Lake and reservoirs	Soso (farm pond)	Ainosawa		2016/5/6	3	45.0	Silt/sand/gravel	13,000	63,000	76,000	3.3		
					2016/12/2	5	42.4	Silt/sand	9,800	57,000	66,800	4.1		
		Ganbe Dam Reservoir			2016/5/10	8	29.7	Silt	10,000	48,000	58,000	3.8		
					2016/12/1	5	31.4	Silt	13,000	79,000	92,000	4.5		
		Fugane Dam			2016/8/20	3	44.2	Silt	3,100	17,000	20,100	5.3		
		Takanokura Dam Reservoir				2016/6/7	10	31.3	Silt	3,900	19,000	22,900	6.6	
						2016/10/20	8	35.5	Silt	4,700	26,000	30,700	7.0	
		Yokokawa Dam Reservoir				2016/6/7	8	36.3	Silt/sand	7,100	37,000	44,100	6.9	
						2016/12/13	5	61.5	Sand/silt	2,400	14,000	16,400	2.3	
		Soso (farm pond)	Ryugasaku		2016/6/3	3	25.5	Silt	2,500	13,000	15,500	3.0		
			Koakuto		2016/12/17	3	27.7	Silt/sand	6,900	43,000	49,900	4.5		
		Ogaki Dam			2016/6/10	5	53.7	Silt/sand	14,000	71,000	85,000	6.3		
					2016/12/17	3	78.0	Gravel/sand	4,400	25,000	29,400	5.1		
		Soso (farm pond)	Heigoiri			2016/8/19	3	27.7	Silt	3,600	19,000	22,600	5.9	
						2016/8/6	3	24.4	Silt	46,000	270,000	316,000	100	
			Joroku				2016/10/26	3	43.3	Silt	3,000	21,000	24,000	5.4
							2016/6/20	3	21.3	Silt	88,000	440,000	528,000	16
			Sawairi No. 1				2016/10/27	3	40.3	Silt	46,000	260,000	306,000	18
							2016/6/22	5	54.8	Silt	14,000	67,000	81,000	2.7
		Suzunai No. 4			2016/12/22	5	43.7	Silt	15,000	88,000	103,000	3.1		
		Nishihaguro			2016/10/27	3	60.5	Silt/sand	2,100	12,000	14,100	1.0		
		Sakashita Dam				2016/6/9	10	30.5	Silt	2,900	15,000	17,900	3.6	
						2016/12/15	8	24.3	Silt/sand	2,100	10,000	12,100	3.2	
		Soso (farm pond)	Yonomori		2016/6/18	5	56.2	Silt/sand	3,400	17,000	20,400	1.5		
					2016/10/23	4	64.0	Silt/sand/gravel	2,300	13,000	15,300	0.72		
		Takikawa Dam			2016/5/18	3	41.7	Silt/sand	5,900	29,000	34,900	3.1		
		Soso (farm pond)	Kamisigeoka No. 1			2016/8/18	3	39.9	Silt/sand	2,500	14,000	16,500	0.69	
						2016/12/20	3	32.7	Silt/sand	2,400	15,000	17,400	1.1	
			Shimosigeoka		2016/5/25	5	27.3	Silt/sand	2,200	12,000	14,200	0.63		
		Kido Dam				2016/8/8	5	26.8	Silt	2,400	12,000	14,400	3.2	
					2016/10/11	5	26.7	Silt	1,300	7,400	8,700	2.4		
	Hokkawa Dam				2016/6/20	7	27.1	Silt	1,300	6,400	7,700	1.8		
					2016/10/3	5	25.7	Silt	920	5,500	6,420	1.6		

Location		Sampling Date	Sediment								
			General items (see above)			Activity concentration [Bq/kg(dry)]					
						Radioactive cesium (see above)		Radioactive Strontium			
Prefecture	Water Body/Point	Sample length (cm)	Sediment content (%)	Property	Cs-134	Cs-137	Total	Sr-90			
Fukushima Prefecture	Coastal areas	Neighboring sea area of Soso Approx. 2,000 m offshore of Tsurushihama Fishing Port	2016/12/5	6	79.1	Sand	<0.51	2.4	2.4	<0.34	
			2016/9/6	5	72.9	Sand	1.2	5.9	7.1	<0.27	
		Matsukawaura sea area Around center of Fishing Right Area-1	2016/5/25	10	61.8	Silt/sand	88	530	618	<0.28	
			2016/10/4	4	73.7	Silt/sand	17	100	117	<0.28	
		Neighboring sea area of Soso Approx. 2,000 m offshore of Manogawa River	2016/8/3	5	73.4	Sand	<5.0	13	13	<0.27	
			2016/10/5	5	73.9	Sand	<4.6	12	12	<0.31	
		Neighboring sea area of Haramachi-shi Approx. 1,000 m offshore of Niida River	2016/9/7	5	72.5	Sand	21	100	121	<0.46	
			2016/11/2	5	73.5	Sand	18	130	148	<0.29	
		Neighboring sea area of Haramachi-shi Approx. 1,000 m offshore of Otagawa River	2016/9/7	4	72.0	Sand	<5.6	29	29	<0.31	
			2016/11/2	5	71.7	Sand	<5.5	29	29	<0.30	
		Neighboring sea area of Soso District Approx. 1,000 m offshore of Odaka River	2016/9/15	5	67.9	Sand	12	71	83	<0.30	
			2016/12/7	5	70.6	Sand	9.2	44	53.2	<0.28	
		Neighboring sea area of Soso District Approx. 2,000 m offshore of Ukedo River	2016/7/6	5	73.1	Sand	45	310	355	<0.34	
			2016/11/4	5	65.5	Sand	34	220	254	<0.29	
		Neighboring sea area of Soso District Approx. 1,000 m offshore of Kumagawa River	2016/5/20	5	73.7	Sand	51	300	351	<0.31	
			2016/11/7	5	73.6	Sand	30	210	240	<0.28	
		Neighboring sea area of Soso District Approx. 1,000 m offshore of Tomioka River	2016/9/12	5	73.5	Sand	59	340	399	<0.27	
			2016/12/5	3	56.0	Sand	86	570	656	<0.26	
		Neighboring sea area of Narahamachi Town Approx. 1,000 m offshore of Kidogawa River	2016/6/16	10	53.0	Sand/silt	120	660	780	0.38	
			2016/10/12	5	67.7	Sand	32	240	272	<0.29	
		Approx. 1,000 m offshore of Asami River Estuary	2016/7/12	6	72.2	Sand	15	87	102	<0.29	
			2016/11/8	4	73.3	Sand	13	67	80	<0.25	
		Approx. 1,000 m offshore of Ohisa River Estuary	2016/9/16	5	72.5	Sand	9.8	51	60.8	<0.26	
			2016/11/8	5	74.2	Sand	8.1	46	54.1	<0.27	
Neighboring sea area of Iwaki-shi Approx. 1,500 m offshore of Natsui River	2016/5/24	10	72.2	Sand	8.7	36	44.7	<0.28			
	2016/10/13	7	72.9	Sand	<4.9	26	26	<0.36			
Onahama Port Approx. 400 m north of Nishibouhatei No. 2	2016/7/13	7	51.9	Silt/sand	93	660	753	0.31			
	2016/12/7	5	44.8	Silt/sand	53	350	403	<0.27			
Joban coastal sea area Approx. 1,000 m offshore of Binda River	2016/9/17	5	68.9	Sand	12	57	69	<0.29			
	2016/12/7	5	67.7	Sand	12	68	80	<0.29			
Ibaraki Prefecture	Rivers	Shinkawa River	Shinten Bridge	2016/5/24	7	24.0	Silt	200	1,100	1,300	0.61
				2016/11/16	7	25.6	Silt	100	640	740	0.69
		Bizen River	Bizengawa Bridge	2016/5/24	5	60.0	Silt/sand	300	1,600	1,900	<0.29
				2016/11/16	3	66.6	Silt/sand	170	1,200	1,370	0.52
	Lake and reservoirs	Lake Kasumigaura	Center	2016/8/26	8	15.3	Silt	88	440	528	0.82
				2016/11/22	8	14.8	Silt	66	440	506	0.68
		Lake Ushikunuma	Center of Lake Ushikunuma	2016/5/24	5	22.3	Silt	110	620	730	0.33
				2016/11/28	5	23.8	Silt	86	530	616	0.44
	Mizunuma Dam	Center	2016/5/10	6	16.8	Silt	450	2,300	2,750	2.5	
			2016/11/22	5	16.6	Silt	340	1,800	2,140	2.0	
Tochigi Prefecture	Lake and reservoir	Ikari Dam Reservoir	Center	2016/8/26	10	31.7	Silt	49	320	369	2.0
				2016/10/18	8	37.4	Silt	40	250	290	0.92
Gunma Prefecture	Lake and reservoirs	Lake Okutone (Yagisawa Dam)	Center	2016/10/14	10	34.7	Silt	190	1,100	1,290	1.3
				2016/8/4	5	26.4	Silt	250	1,600	1,850	1.8
		Lake Naramata (Naramata Dam)	Center	2016/10/14	5	26.9	Silt	230	1,400	1,630	1.6
				2016/5/13	8	37.8	Silt	180	990	1,170	1.4
		Lake Fujiwara (Fujiwara Dam)	Center	2016/12/1	10	34.4	Silt	200	1,300	1,500	1.6
				2016/12/1	10	40.2	Silt	240	1,500	1,740	0.75
		Lake Akaya (Aimata Dam)	Center	2016/8/4	10	13.5	Silt	300	1,900	2,200	2.6
				2016/10/24	10	17.6	Silt	310	1,800	2,110	1.6
Lake Akagionuma	Center	2016/8/31	10	28.4	Silt	410	2,100	2,510	0.71		
		2016/12/19	10	34.6	Silt	140	1,100	1,240	1.0		
Lake Okushima (Shimagawa Dam)	Center	2016/11/21	10	32.6	Silt	270	1,500	1,770	0.72		
		2016/5/20	5	37.0	Silt/sand	440	2,300	2,740	<0.28		
Chiba Prefecture	Rivers	Ohori River	Kitakashwa Bridge	2016/11/18	5	66.1	Silt/sand	200	1,200	1,400	<0.23
				2016/5/20	7	33.4	Silt	350	2,000	2,350	0.30
		Otsu River	Kaminuma Bridge	2016/11/18	5	50.9	Silt	230	1,500	1,730	<0.26
		Inba Discharge Channel (upper reaches)	Yachiyo Bridge	2016/11/18	5	25.9	Silt	150	1,100	1,250	0.30
		Toneunga Canal	Unga Bridge	2016/5/19	5	20.1	Silt/sand	630	3,500	4,130	0.40
				2016/11/15	4	35.3	Silt/sand	350	2,300	2,650	0.53
	Lake and reservoirs	Lake Teganuma	Center area of Teganuma	2016/9/28	13	23.1	Silt	140	890	1,030	0.52
				2016/12/21	10	27.0	Silt	84	810	894	0.43
				2016/6/17	10	32.3	Silt	390	2,100	2,490	0.54
				2016/12/21	10	31.0	Silt	320	2,200	2,520	0.75