

○ Results of Radioactive Material Monitoring of Aquatic Organisms Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J

< Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Samples collected >

Items locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
I-1	○	○	○	○	○	○
I-2	—	○	—	—	○	—
I-3	○	○	○	—	○	—
I-4	—	○	—	—	○	—
J-1	○	○	○	—	○	—

< Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Site measurement item >

Items Locations	Latitude and longitude of the location		Survey date and time		Water	Sediment				Other		
	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)
I-1	37.5054°	140.1140°	2014/12/4	8:59	9:17	9.2	9.8	Ooze	7.5Y2/1	Plant	12.0	12.0 (Drifting to the bottom)
I-2	37.5005°	140.1411°		—	8:47	—	9.8	Ooze	7.5Y4/2	None	—	—
I-3	37.5086°	140.0270°		9:52	10:00	8.9	9.2	Ooze	7.5Y4/2	None	7.6	7.6 (Drifting to the bottom)
I-4	37.5152°	140.1018°		—	9:28	—	9.1	Sand gravel	7.5Y5/3	Vallisneria denseraculata	—	—
J-1	37.4206°	140.1008°		8:12	8:22	9.7	9.9	Sand	7.5Y4/3	Freshwater clams	5.3	5.3 (Drifting to the bottom)

< Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: General survey items/Analysis of radioactive materials Water >

Items Locations	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
	Latitude	Longitude	Date	Time		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
I-1 (Surface layer)	37.5054°	140.1140°	2014/12/4	8:59	7.0	<0.5	1.4	10.9	11.4	0.07	0.6	1	0.6	0.0049	0.015	—
I-1 (Deep layer)				—	6.9	<0.5	1.3	11.2	11.7	0.07	0.6	1	0.5	0.0043	0.014	0.00085
I-3 (Surface layer)				—	6.9	<0.5	1.1	11.0	11.5	0.07	0.6	<1	0.4	0.0043	0.016	—
I-3 (Deep layer)				—	6.9	<0.5	1.3	11.3	11.5	0.07	0.6	<1	0.4	0.0049	0.015	—
J-1 (Surface layer)				37.4206°	140.1008°	8:12	—	6.9	<0.5	1.4	11.1	11.6	0.07	0.7	1	0.6
J-1 (Deep layer)	—	6.9	<0.5				1.2	11.2	12.3	0.07	0.6	<1	0.4	0.0054	0.017	—

< Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: General survey items/Analysis of radioactive materials Sediment >

Items Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _h (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
	Latitude	Longitude	Date	Time							Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)				Median grain diameter (mm)	Maximum grain diameter (mm)
I-1	37.5054°	140.1140°	2014/12/4	9:17	6.8	55	79.7	13.0	35.9	2.563	0.0	0.1	15.3	43.7	17.9	23.0	0.13	2	170	580	—
I-2				8:47	7.1	215	60.0	6.9	16.6	2.633	0.0	3.1	5.3	43.8	24.6	23.2	0.092	2	150	490	—
I-3				10:00	7.0	194	70.4	10.1	22.7	2.604	0.0	0.1	2.7	24.0	53.6	19.6	0.038	2	26	100	—
I-4				9:28	6.7	279	28.0	1.5	1.8	2.784	16.4	19.9	53.6	9.0	0.9	0.2	0.65	19	19	67	—
J-1				8:22	6.9	323	34.0	2.1	3.0	2.661	0.0	4.5	65.4	23.1	3.4	3.6	0.30	2	57	240	—

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

< Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J. Analysis items Aquatic organisms >

Location	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note			Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)		
	Latitude	Longitude										Growth stage	Stomach contents	Measurement site					
I-1,I-2 (north lakeside)	—	37.5054°,37.5005°	140.1140°,140.1411°	2014/12/3	Course particulate organic matters (CPOMs)	—	—	—	Fallen leaves	Considerable number	0.45	—	—	—	5.9	18	—		
J-1 (south lakeside)	—	37.4206°	140.1008°	2014/12/2	Angiospermae	Dicotyledonae	Nymphaeales	Nymphaeaceae	<i>Nuphar japonicum</i>	Cow lily	Considerable number	0.18	—	—	—	N.D.(0.49)	0.98	—	
					Mollusca	Gastropoda	Sorbococoncha	Pleuroceridae	<i>Semisulcospira libertina</i>	Semisulcospira libertina	22	0.025	Imago	—	—	Molluscan body	2.4	8.2	—
					Mollusca	Gastropoda	Architaenioglossa	Viviparidae	<i>Bellamyia japonica</i>	Japanese mysterysnail	48	0.36	Imago	—	—	Molluscan body	N.D.(0.61)	0.73	—
					Vertebrata	Amphibia	Anura	—	—	Frogs	10	0.016	Larva (tadpoles)	—	—	—	N.D.(2.6)	2.2	—
					Vertebrata	Amphibia	Anura	Ranidae	<i>Rana rugosa</i>	Wrinkled Frog	14	0.062	Imago	—	—	—	N.D.(1.1)	1.5	—
					2014/12/4	Algae/plant	—	—	—	—	Plankton	Considerable number	0.014	—	—	—	—	N.D.(2.9)	9.1

*1: Organisms were collected in or around the targeted water areas.

*2: When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

*3: For a sample made of multiple types of aquatic organisms, the name of the dominant one largest in number is underlined.

*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

*5: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith

*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

*7: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

*9: Activity concentrations include counting errors, but the details are omitted here.