

○ Results of Radioactive Material Monitoring of Aquatic Organisms (Location A along the Abukuma River)

< Location A along the Abukuma River: Samples collected >

| Location | General items | | Radioactive materials | | | |
|----------|---------------|----------|-----------------------|------------|---------------|---------------|
| | Water | Sediment | water (Cs) | water (Sr) | Sediment (Cs) | Sediment (Sr) |
| A-1 | — | ○ | — | — | — | — |
| A-2 | ○ | ○ | ○ | ○ | ○ | ○ |
| A-3 | — | ○ | — | — | — | — |
| A-4 | ○ | ○ | ○ | ○ | ○ | ○ |
| A-5 | — | ○ | — | — | ○ | — |

< Location A along the Abukuma River: Site measurement item >

| Location | Survey date and time | Latitude and longitude of the location | | Water | | | | | | Sediment | | Other | |
|----------|----------------------|--|-----------|-------------------|----------------------|----------|----------------------|------------------------|--------------|---------------------|-------------|-------|--|
| | | Latitude | Longitude | Water temperature | Sediment temperature | Property | Color | Odor | Contaminants | Transparency | Water depth | | |
| A-1 | H23.12.27 | 13:24 | 37.59127 | 140.49438 | 1.7 | 1.6 | Sand | Olive black | None | Sandy sediments | >50 | 0.5 | |
| A-2 | | 12:00 | 37.61680 | 140.52063 | 1.4 | 2.1 | Sand/sediment | Olive brown | None | Sandy sediments | >50 | 2.3 | |
| A-3 | | 11:40 | 37.62100 | 140.52178 | 1.7 | 2.5 | Sand/sediment | Olive black | None | Fallen leaves/Twigs | >50 | 6.4 | |
| A-4 | | 11:20 | 37.63358 | 140.52365 | 2.1 | 1.7 | Sand | Olive brown | None | Fallen leaves/Twigs | >50 | 7.0 | |
| A-5 | | 10:33 | 37.64265 | 140.52767 | 1.7 | 2.1 | Sand/gravel/sediment | Faint hydrogen sulfide | None | Sandy sediments | >50 | 12.0 | |

< Location A along the Abukuma River: Analysis items Water >

| Location | Survey date and time | Latitude and longitude of the location | | pH | BOD (mg/L) | COD (mg/L) | DO (mg/L) | Electrical conductivity (mS/m) | Salinity | TOC (mg/L) | SS (mg/L) | Turbidity (FNU) | Cs-134 (Bq/L) | Cs-137 (Bq/L) | Sr-90 (Bq/L) | |
|----------|----------------------|--|-----------|-----------|------------|------------|-----------|--------------------------------|----------|------------|-----------|-----------------|---------------|---------------|--------------|--------|
| | | Latitude | Longitude | | | | | | | | | | | | | |
| A-1 | H23.12.27 | 13:24 | 37.59127 | 140.49438 | - | - | - | - | - | - | - | - | - | - | - | |
| A-2 | | 12:00 | 37.61680 | 140.52063 | 7.4 | 1.3 | 2.4 | 13.4 | 21.5 | 0.10 | 1.4 | 1 | 1.1 | 0.061 | 0.077 | 0.0012 |
| A-3 | | 11:40 | 37.62100 | 140.52178 | - | - | - | - | - | - | - | - | - | - | - | - |
| A-4 | | 11:20 | 37.63358 | 140.52365 | 7.5 | 0.9 | 2.2 | 13.3 | 21.6 | 0.10 | 1.2 | <1 | 0.9 | 0.047 | 0.061 | 0.0011 |
| A-5 | | 10:33 | 37.64265 | 140.52767 | - | - | - | - | - | - | - | - | - | - | - | - |

< Location A along the Abukuma River: Analysis items Sediment >

| Location | Survey date and time | Latitude and longitude of the location | | pH | Redox potential E _{NH/E} (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 | | | | | | | 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) | | | | |
| A-1 | H23.12.27 | 13:24 | 37.59127 | 140.49438 | 7.0 | 352 | 35.3 | 2.3 | 2 | 2.692 | 0.1 | 0.8 | 47.4 | 45.9 | 3.8 | 2.0 | 0.2448 | 4.75 | 770 | 1,000 | — |
| A-2 | | 12:00 | 37.61680 | 140.52063 | 7.1 | 201 | 29.9 | 1.9 | 4 | 2.703 | 1.2 | 14.4 | 59.6 | 18.2 | 4.2 | 2.4 | 0.3962 | 9.5 | 650 | 870 | 0.23 |
| A-3 | | 11:40 | 37.62100 | 140.52178 | 7.0 | 46 | 34.4 | 2.6 | 9 | 2.749 | 7.5 | 3.4 | 55.0 | 22.6 | 7.5 | 4.0 | 0.3212 | 19 | 800 | 1,100 | — |
| A-4 | | 11:20 | 37.63358 | 140.52365 | 7.2 | 416 | 34.2 | 3.0 | 3 | 2.698 | 6.0 | 3.8 | 37.8 | 43.9 | 5.7 | 2.8 | 0.2414 | 19 | 780 | 1,100 | 0.32 |
| A-5 | | 10:33 | 37.64265 | 140.52767 | 6.9 | 6 | 29.5 | 1.5 | 3 | 2.671 | 50.6 | 32.5 | 11.1 | 2.0 | 2.6 | 1.2 | 2.0253 | 19 | 310 | 440 | — |

< Location A along the Abukuma River: Samples collected Aquatic organisms >

| Location | Sampling Date | Latitude and longitude of the location | | Division | Class | Order | Family | Species name | English name | Population | Sample weight (kg.wet) | Cs-134 (Bq/kg.wet) | Cs-137 (Bq/kg.wet) | Sr-90 (Bq/kg.wet) | *Stomach contents |
|----------|---------------|--|-----------|------------|--------------|---------------|----------------|-----------------------------------|----------------------------|----------------------------|------------------------|--------------------|--------------------|-------------------|-------------------|
| | | Latitude | Longitude | | | | | | | | | | | | |
| A-6 | H24.2.8 | 37.56668 | 140.39467 | — | — | — | — | — | CPOM | — | 2 | 390 | 530 | — | — |
| | | | | Arthropoda | Insecta | Plecoptera | Perlidae | <i>Ovamia sp.</i> | Ovamia sp. | Many (approx. 800) abalone | 0.13 | 140 | 200 | — | — |
| | | | | Arthropod | Insecta | Odonata | Gomphidae | <i>Onychogomphus viridicostus</i> | Onychogomphus viridicostus | | | | | | |
| | | | | Arthropod | Insecta | Trichoptera | Stenopsychidae | <i>Stenopsyche marmorata</i> | Stenopsyche marmorata | | | | | | |
| | | | | Arthropoda | Malacostraca | Decapoda | Atyidae | <i>Neocaridina denticulata</i> | Freshwater shrimp | 600 | 0.31 | 56 | 100 | — | — |
| | | | | Vertebrata | Osteichthyes | Cypriniformes | Cobitidae | <i>Noemacheilus barbatulus</i> | Stone loach | 75 | 0.43 | 26 | 35 | — | — |
| | | | | Vertebrata | Osteichthyes | Cypriniformes | Cyprinidae | <i>Nipponocypris temminckii</i> | Dark chub | 215 | 0.23 | 62 | 85 | — | — |
| | | | | Vertebrata | Osteichthyes | Cypriniformes | Cyprinidae | <i>Phoxinus lagowskii</i> | Amur Minnow | 72 | 0.14 | 72 | 99 | — | — |