

○ Results (water)

| Locations  |                    |          | 2020 August Survey |     |               |               |              |                                 |          |               |              |                    |                  |                  |                 |
|--|--------------------|----------|--------------------|-----|---------------|---------------|--------------|---------------------------------|----------|---------------|--------------|--------------------|------------------|------------------|-----------------|
|  |                    | Latitude | Longitude          | pH  | BOD<br>(mg/L) | COD<br>(mg/L) | DO<br>(mg/L) | Electric conductivity<br>(mS/m) | Salinity | TOC<br>(mg/L) | SS<br>(mg/L) | Turbidity<br>(FNU) | Cs-134<br>(Bq/L) | Cs-137<br>(Bq/L) | Sr-90<br>(Bq/L) |
| Abukuma River System   | A-1(Surface layer) | 37.6210° | 140.5218°          | 7.3 | 1.2           | 4.4           | 7.6          | 17.0                            | 0.09     | 1.9           | 4            | 3.0                | N.D.(0.0014)     | 0.013            | 0.0011          |
|  | A-1(Bottom layer)  | 37.6210° | 140.5218°          | 7.4 | 1.2           | 4.6           | 7.8          | 17.5                            | 0.09     | 1.9           | 6            | 3.2                | N.D.(0.0015)     | 0.029            | -               |
|  | A-2                | 37.5673° | 140.3946°          | 7.6 | 0.7           | 2.9           | 9.3          | 11.2                            | 0.06     | 1.0           | 4            | 2.8                | N.D.(0.0015)     | 0.012            | -               |
|  | B-2                | 37.8121° | 140.5058°          | 7.6 | 1.2           | 4.4           | 9.4          | 19.0                            | 0.11     | 1.6           | 10           | 3.7                | 0.0018           | 0.026            | -               |
|  | B-3                | 37.8182° | 140.4679°          | 8.1 | 0.7           | 3.5           | 10.2         | 8.9                             | 0.05     | 1.4           | 3            | 1.9                | N.D.(0.0015)     | 0.0042           | -               |
| Uda River  | C-6                | 37.7764° | 140.8877°          | 7.9 | <0.5          | 2.3           | 11.1         | 10.7                            | 0.06     | 1.0           | 2            | 1.1                | N.D.(0.0016)     | 0.0053           | 0.00067         |
| Mano River   | D-4 a              | 37.7308° | 140.9081°          | 7.4 | <0.5          | 2.6           | 10.0         | 10.0                            | 0.05     | 1.1           | 2            | 1.4                | N.D.(0.0015)     | 0.039            | 0.00078         |
| Niida River  | E-2 a              | 37.6640° | 140.9447°          | 7.8 | <0.5          | 2.5           | 9.7          | 7.6                             | 0.04     | 0.9           | 2            | 1.8                | N.D.(0.0014)     | 0.024            | 0.0015          |
| Ota River  | F-1                | 37.5975° | 140.9252°          | 7.7 | <0.5          | 2.7           | 9.5          | 5.4                             | 0.03     | 0.9           | 1            | 1.2                | 0.0041           | 0.086            | 0.0031          |
| Lake Hayama<br>(Mano Dam)  | G-1(Surface layer) | 37.7348° | 140.8102°          | 7.7 | 0.6           | 3.9           | 8.1          | 7.1                             | 0.04     | 1.8           | 3            | 3.5                | N.D.(0.0015)     | 0.012            | -               |
|  | G-1(Bottom layer)  | 37.7348° | 140.8102°          | 7.4 | 0.6           | 3.7           | 7.7          | 7.6                             | 0.04     | 1.5           | 5            | 3.6                | 0.0020           | 0.032            | 0.00062         |
|  | G-2(Surface layer) | 37.7267° | 140.8223°          | 7.9 | 0.6           | 3.5           | 8.5          | 6.9                             | 0.04     | 1.9           | 1            | 1.8                | N.D.(0.0014)     | 0.011            | -               |
|  | G-2(Bottom layer)  | 37.7267° | 140.8223°          | 7.0 | 1.4           | 4.0           | 6.9          | 6.9                             | 0.04     | 2.5           | 2            | 3.1                | N.D.(0.0016)     | 0.020            | -               |
|  | G-4                | 37.7382° | 140.8035°          | 7.8 | <0.5          | 2.3           | 8.8          | 7.4                             | 0.04     | 0.9           | <1           | 0.9                | N.D.(0.0014)     | 0.0099           | -               |
| Lake Akimoto   | H-1(Surface layer) | 37.6575° | 140.1264°          | 7.2 | 0.7           | 3.6           | 8.8          | 4.8                             | 0.03     | 1.7           | 2            | 2.4                | 0.0013           | 0.020            | -               |
|  | H-1(Bottom layer)  | 37.6575° | 140.1264°          | 6.9 | 0.8           | 4.1           | 7.1          | 4.1                             | 0.03     | 2.0           | 8            | 8.2                | N.D.(0.0016)     | 0.016            | 0.0011          |
|  | H-2(Surface layer) | 37.6616° | 140.1226°          | 7.1 | 0.7           | 3.6           | 8.8          | 4.9                             | 0.03     | 1.8           | 2            | 2.5                | N.D.(0.0015)     | 0.020            | -               |
|  | H-2(Bottom layer)  | 37.6616° | 140.1226°          | 6.6 | 0.9           | 3.2           | 2.4          | 6.7                             | 0.04     | 1.3           | 4            | 3.2                | 0.0017           | 0.033            | -               |
| Lake Inawashiro  | J-1(Surface layer) | 37.4203° | 140.1008°          | 7.2 | 0.9           | 1.9           | 9.2          | 10.7                            | 0.06     | 0.8           | <1           | 0.9                | N.D.(0.0014)     | 0.0043           | -               |
|  | J-1(Bottom layer)  | 37.4203° | 140.1008°          | 7.1 | 0.6           | 2.2           | 9.2          | 10.9                            | 0.06     | 1.3           | <1           | 0.9                | N.D.(0.0014)     | 0.0051           | 0.00076         |
| Off the mouth of<br>the Abukuma River<br>(Sea Area in front of the<br>mouth of the Abukuma<br>River) | K-3(Surface layer) | 38.0458° | 140.9518°          | 8.0 | 1.0           | 3.0           | 7.0          | 4600                            | 29.91    | 1.6           | 1            | 0.9                | N.D.(0.0015)     | 0.0021           | -               |
|  | K-3(Bottom layer)  | 38.0458° | 140.9518°          | 7.9 | 0.6           | 1.8           | 7.8          | 5020                            | 33.02    | 1.1           | 1            | 0.7                | N.D.(0.0017)     | 0.0030           | 0.00070         |
| Off Soma City<br>(Matsukawaura)  | L-2                | 37.8155° | 140.9763°          | 8.0 | 0.9           | 2.5           | 7.1          | 4520                            | 29.43    | 1.3           | 3            | 1.2                | N.D.(0.0012)     | 0.0047           | 0.00089         |
| Off Iwaki City<br>(Hisanohama)   | M-2(Surface layer) | 37.1996° | 141.0853°          | 8.1 | <0.5          | 1.8           | 8.2          | 4840                            | 33.34    | 1.2           | <1           | 0.4                | N.D.(0.0013)     | 0.0015           | -               |
|  | M-2(Bottom layer)  | 37.1996° | 141.0853°          | 8.1 | <0.5          | 1.1           | 8.5          | 4910                            | 33.65    | 1.1           | 2            | 0.7                | N.D.(0.0015)     | 0.0022           | 0.00081         |

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

○ Results (sediments)

| Locations  |          |           | 2020 August Survey |   |                         |           |                   |   |                           |                                  |                                     |                                    |                                |                                    |                                  |                                   |                       |                       |                      |            |
|--|----------|-----------|--------------------|---|-------------------------|-----------|-------------------|---|---------------------------|----------------------------------|-------------------------------------|------------------------------------|--------------------------------|------------------------------------|----------------------------------|-----------------------------------|-----------------------|-----------------------|----------------------|------------|
| Location   | Latitude | Longitude | pH                 | Redox potential<br>E <sub>N,H/E</sub><br>(mV) | Water<br>content<br>(%) | IL<br>(%) | TOC<br>(mg/g-dry) | Soil particle density<br>(g/cm <sup>3</sup> ) | Grain size distribution   |                                  |                                     |                                    |                                |                                    |                                  |                                   | Cs-134<br>(Bq/kg-dry) | Cs-137<br>(Bq/kg-dry) | Sr-90<br>(Bq/kg-dry) |            |
|  |          |           |                    |   |                         |           |                   |   | Gravel<br>(2-75mm)<br>(%) | Coarse sand<br>(0.85-2mm)<br>(%) | Medium sand<br>(0.25-0.85mm)<br>(%) | Fine sand<br>(0.075-0.25mm)<br>(%) | Silt<br>(0.005-0.075mm)<br>(%) | Clay<br>(Less than 0.005mm)<br>(%) | Median grain<br>diameter<br>(mm) | Maximum<br>grain diameter<br>(mm) |                       |                       |                      |            |
| Abukuma River System   | A-1      | 37.6210°  | 140.5218°          | 7.4   | 192                     | 22.9      | 2.5               | 5.5   | 2.696                     | 0.7                              | 19.5                                | 42.1                               | 30.0                           | 4.1                                | 3.6                              | 0.42                              | 4.8                   | 6.5                   | 120                  | 0.17       |
|  | A-2      | 37.5673°  | 140.3946°          | 7.3   | 481                     | 17.6      | 1.4               | 2.1   | 2.773                     | 28.7                             | 40.4                                | 25.5                               | 3.6                            | 1.8                                | 1.3                              | 9.5                               | 1.9                   | 40                    | -                    |            |
|  | B-2      | 37.8121°  | 140.5058°          | 7.3   | 469                     | 22.1      | 1.3               | 1.8   | 2.762                     | 0.0                              | 0.5                                 | 59.4                               | 37.8                           | 2.3                                | 0.28                             | 4.8                               | 4.2                   | 64                    | -                    |            |
|  | B-3      | 37.8182°  | 140.4679°          | 7.4   | 490                     | 17.0      | 1.0               | 1.2   | 2.646                     | 22.5                             | 58.2                                | 17.5                               | 1.5                            | 0.3                                | 1.4                              | 9.5                               | 1.7                   | 29                    | -                    |            |
| Uda River  | C-6      | 37.7764°  | 140.8877°          | 7.5   | 460                     | 16.5      | 0.7               | 1.5   | 2.728                     | 39.8                             | 41.4                                | 18.0                               | 0.6                            | 0.2                                | 1.7                              | 9.5                               | 2.1                   | 34                    | 0.23                 |            |
| Mano River   | D-4 a    | 37.7308°  | 140.9081°          | 7.2   | 448                     | 14.5      | 1.8               | 2.2   | 2.712                     | 70.5                             | 27.9                                | 0.6                                | 0.6                            | 0.4                                | 2.6                              | 19                                | 4.8                   | 120                   | 0.66                 |            |
| Niida River  | E-2 a    | 37.6640°  | 140.9447°          | 7.4   | 456                     | 18.8      | 1.1               | 2.4   | 2.673                     | 6.8                              | 52.0                                | 32.3                               | 6.7                            | 2.2                                | 0.98                             | 9.5                               | 12                    | 240                   | 0.18                 |            |
| Ota River  | F-1      | 37.5975°  | 140.9252°          | 7.0   | 500                     | 18.7      | 1.3               | 2.6   | 2.678                     | 10.5                             | 20.7                                | 44.9                               | 17.2                           | 2.7                                | 4.0                              | 0.48                              | 4.8                   | 18                    | 310                  | 0.85       |
| Lake Hayama<br>(Mano Dam)  | G-1      | 37.7348°  | 140.8102°          | 7.4   | 99                      | 47.5      | 9.7               | 26.4  | 2.598                     | -                                | 0.0                                 | 2.2                                | 42.1                           | 36.7                               | 19.0                             | 0.063                             | 2.0                   | 75                    | 1500                 | 2.3        |
|  | G-2      | 37.7267°  | 140.8223°          | 7.3   | 113                     | 45.6      | 8.6               | 23.8  | 2.614                     | 1.0                              | 1.1                                 | 3.8                                | 22.3                           | 46.4                               | 25.4                             | 0.034                             | 19                    | 91                    | 1600                 | -          |
|  | G-4      | 37.7382°  | 140.8035°          | 7.6   | 476                     | 23.9      | 2.3               | 2.9   | 2.692                     | 18.9                             | 54.6                                | 22.4                               | 2.2                            | 1.9                                | 1.2                              | 9.5                               | 12                    | 210                   | -                    |            |
| Lake Akimoto   | H-1      | 37.6575°  | 140.1264°          | 6.8   | 36                      | 58.8      | 9.2               | 26.3  | 2.570                     | -                                | -                                   | 0.2                                | 0.4                            | 49.6                               | 49.8                             | 0.0051                            | 0.85                  | 38                    | 660                  | 1.5        |
|  | H-2      | 37.6616°  | 140.1226°          | 6.9   | 26                      | 74.4      | 14.2              | 46.2  | 2.445                     | -                                | -                                   | 0.5                                | 0.2                            | 28.6                               | 70.7                             | -                                 | 0.85                  | 110                   | 2000                 | -          |
| Lake Inawashiro  | J-1      | 37.4203°  | 140.1008°          | 7.0   | 363                     | 25.9      | 1.9               | 2.8   | 2.715                     | 0.6                              | 1.3                                 | 37.5                               | 56.1                           | 2.2                                | 2.3                              | 0.22                              | 9.5                   | 7.7                   | 170                  | 0.25       |
| Off the mouth of<br>the Abukuma River<br>(Sea Area in front of the<br>mouth of the Abukuma<br>River) | K-3      | 38.0458°  | 140.9518°          | 7.7   | 246                     | 31.8      | 4.0               | 7.3   | 2.703                     | 0.0                              | 0.0                                 | 0.5                                | 47.0                           | 40.3                               | 12.2                             | 0.071                             | 4.8                   | 6.6                   | 120                  | N.D.(0.15) |
| Off Soma City<br>(Matsukawaura)  | L-2      | 37.8155°  | 140.9763°          | 7.7   | 324                     | 18.8      | 1.2               | 2.4   | 2.747                     | 2.7                              | 4.6                                 | 61.2                               | 29.2                           | 2.3                                | 0.31                             | 9.5                               | 1.1                   | 21                    | N.D.(0.13)           |            |
| Off Iwaki City<br>(Hisanohama)   | M-2      | 37.1996°  | 141.0853°          | 7.7   | 345                     | 22.1      | 1.7               | 3.0   | 2.773                     | -                                | -                                   | 2.4                                | 93.9                           | 1.8                                | 1.9                              | 0.16                              | 0.85                  | 1.8                   | 32                   | N.D.(0.16) |

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

○ Results (aquatic organisms)

| Location                          | Sampling point | Sampling date                        | Division   | Class        | Order                    | Family               | Scientific name                         | English name                         | Population                        | Sample weight (kg-wet) | Note                       |                            |                                  | Radioactive cesium (Bq/kg-wet) |        |            | Sr-90 (Bq/kg-wet) |           |      |
|-----------------------------------|----------------|--------------------------------------|------------|--------------|--------------------------|----------------------|---|--------------------------------------|-----------------------------------|------------------------|----------------------------|----------------------------|----------------------------------|--------------------------------|--------|------------|-------------------|-----------|------|
|                                   |                |                                      |            |              |                          |                      |   |                                      |                                   |                        | Growth stage               | Stomach contents           | Measurement site                 | Total                          | Cs-134 | Cs-137     |                   |           |      |
| Abukuma River System              | A-1            | The main stream of the Abukuma River | 2020/8/3   | Vertebrata   | Osteichthyes             | Cypriniformes        | Cyprinidae                              | <i>Carassius auratus</i>             | Carassius auratus langsdorfii     | 5                      | 3.3                        | Mature fish                | Obscure digesta                  | Viscera removed                | 2.8    | N.D.(0.34) | 2.8               | 0.32      |      |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Cypriniformes        | Cyprinidae                              | <i>Hemibarbus barbus</i>             | Hemibarbus barbus                 | 3                      | 1.6                        | Immature fish, Mature fish | Obscure digesta                  | Viscera removed                | 3.2    | N.D.(0.27) | 3.2               | 0.24      |      |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Perciformes          | Centrarchidae                           | <i>Micropterus dolomieu</i>          | Small mouth bass                  | 2                      | 0.96                       | Mature fish                | Fish                             | Viscera removed                | 7.22   | 0.62       | 6.6               | 0.19      |      |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Siluriformes         | Ictaluridae                             | <i>Ictalurus punctatus</i>           | Channel catfish                   | 4                      | 4.2                        | Immature fish, Mature fish | Large brown cicada, Drone beetle | Viscera removed                | 23     | N.D.(1.3)  | 23                | 0.25      |      |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Siluriformes         | Siluridae                               | <i>Silurus asotus</i>                | Amur catfish                      | 1                      | 2.3                        | Mature fish                | Empty stomach                    | Viscera removed                | 11.52  | 0.52       | 11                | 0.23      |      |
|                                   | A-2            | Harase River                         | 2020/8/2   | Algae/plant  | -                        | -                    | -                                       | -                                    | Riverbed Deposits (Include algae) | -                      | 0.013                      | -                          | -                                | -                              | 76.4   | 5.4        | 71                | -         |      |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Trichoptera          | Stenopsychidae                          | <i>Stenopsyche marmorata</i>         | Stenopsyche marmorata             | 46                     | 0.015                      | Larva                      | -                                | -                              | -      | 13         | N.D.(3.9)         | 13        | -    |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Odonata              | Corduliidae                             | <i>Macromia amphigena</i>            | Macromia amphigena                | 103                    | 0.045                      | Larva(Dragonfly larva)     | -                                | -                              | -      | 5.0        | N.D.(2.5)         | 5.0       | -    |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Odonata              | Cordulegastriidae                       | <i>Anotogaster sieboldii</i>         | Anotogaster sieboldii             |                        |                            |                            |                                  |                                |        |            |                   |           |      |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Odonata              | Gomphidae                               | <i>Melligomphus viridicostus</i>     | Melligomphus viridicostus         |                        |                            |                            |                                  |                                |        |            |                   |           |      |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Odonata              | Gomphidae                               | <i>Sieboldius albardae</i>           | Sieboldius albardae               |                        |                            |                            |                                  |                                |        |            |                   |           |      |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Odonata              | Gomphidae                               | <i>Davidius sp.</i>                  | Davidius                          |                        |                            |                            |                                  |                                |        |            |                   |           |      |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Odonata              | Gomphidae                               | <i>Asiagomphus melaenops</i>         | Asiagomphus melaenops             |                        |                            |                            |                                  |                                |        |            |                   |           |      |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Odonata              | Libellulidae                            | <i>Sympetrum sp.</i>                 | Sympetrum                         |                        |                            |                            |                                  |                                |        |            |                   |           |      |
|                                   |                |                                      |            | Arthropoda   | Insecta                  | Megaloptera          | Corydalidae                             | <i>Protohermes grandis</i>           | Protohermes grandis               | 13                     | 0.0055                     | Larva                      | -                                | -                              | -      | N.D.       | N.D.(3.5)         | N.D.(2.0) | -    |
|                                   |                |                                      |            | Arthropoda   | Malacostraca             | Decapoda             | Cambaridae                              | <i>Procambarus clarkii</i>           | Red swamp crawfish                | 5                      | 0.016                      | Juvenile                   | -                                | -                              | -      | 14         | N.D.(4.0)         | 14        | -    |
|                                   |                |                                      |            | Arthropoda   | Malacostraca             | Decapoda             | Potamidae                               | <i>Geothelphusa dehaani</i>          | Japanese freshwater crab          | 15                     | 0.030                      | Juvenile                   | -                                | -                              | -      | 9.4        | N.D.(1.8)         | 9.4       | -    |
|                                   |                |                                      |            | Arthropoda   | Malacostraca             | Decapoda             | Atyidae                                 | <i>Neocaridina sp.</i>               | Neocaridina                       | 133                    | 0.031                      | Juvenile, Imago            | -                                | -                              | -      | 6.6        | N.D.(4.4)         | 6.6       | -    |
|                                   |                |                                      | Mollusca   | Gastropoda   | Discopoda                | Pleuroceridae        | <i>Semisulcospira libertina</i>         | Semisulcospira libertina             | 30                                | 0.025                  | Imago                      | -                          | Molluscos part                   | -                              | 6.0    | N.D.(3.3)  | 6.0               | -         |      |
|                                   |                |                                      | Vertebrata | Osteichthyes | Cypriniformes            | Cyprinidae           | <i>Phoxinus lagowskii steindachneri</i> | Amur minnow                          | 42                                | 0.20                   | Immature fish, Mature fish | -                          | -                                | -                              | 6.9    | N.D.(1.1)  | 6.9               | -         |      |
|                                   |                |                                      | 2020/8/4   | Vertebrata   | Osteichthyes             | Cypriniformes        | Cyprinidae                              | <i>Tribolodon hakonensis</i>         | Japanese dace                     | 1                      | 0.015                      | Immature fish              | -                                | -                              | -      | 14         | N.D.(2.8)         | 14        | -    |
|                                   |                |                                      | 2020/8/2   | Vertebrata   | Osteichthyes             | Cypriniformes        | Cyprinidae                              | <i>Opsariichthys platypus</i>        | Pale chub                         | 53                     | 0.50                       | Immature fish, Mature fish | -                                | -                              | -      | 16.98      | 0.98              | 16        | -    |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Cypriniformes        | Cyprinidae                              | <i>Pseudogobio esocinus esocinus</i> | Pseudogobio esocinus esocinus     | 7                      | 0.088                      | Immature fish, Mature fish | -                                | -                              | -      | 6.5        | N.D.(1.0)         | 6.5       | -    |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Cypriniformes        | Cyprinidae                              | <i>Candidia temminckii</i>           | Dark chub                         | 10                     | 0.075                      | Immature fish              | -                                | -                              | -      | 7.2        | N.D.(2.4)         | 7.2       | -    |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Cypriniformes        | Cobitidae                               | <i>Misgurnus anguillicaudatus</i>    | Oriental weatherfish              | 46                     | 0.27                       | Immature fish, Mature fish | -                                | -                              | -      | 5.9        | N.D.(0.32)        | 5.9       | -    |
|                                   |                |                                      |            | Vertebrata   | Osteichthyes             | Cypriniformes        | Cobitidae                               | <i>Nemacheilus toni</i>              | Stone loach                       | 121                    | 0.84                       | Immature fish              | -                                | -                              | -      | 3.4        | N.D.(1.9)         | 3.4       | 0.18 |
|                                   |                |                                      | 2020/8/4   | Vertebrata   | Cephalaspidomorpha       | Petromyzontiformes   | Petromyzontidae                         | <i>Lethenteron reissneri</i>         | Far eastern brook lamprey         | 3                      | 0.013                      | Ammocoetes(larva)          | -                                | -                              | -      | N.D.       | N.D.(6.7)         | N.D.(5.7) | -    |
|                                   |                |                                      | 2020/8/2   | Vertebrata   | Amphibia                 | Anura                | -                                       | -                                    | Frog                              | 11                     | 0.012                      | Larva(Tadpole)             | -                                | -                              | -      | 52         | N.D.(3.6)         | 52        | -    |
| Vertebrata                        | Amphibia       | Anura                                |            | Hylidae      | <i>Hyla japonica</i>     | Japanese tree frog   | 3                                       | 0.0071                               | Imago                             | -                      | -                          | -                          | 8.2                              | N.D.(5.6)                      | 8.2    | -          |                   |           |      |
| Vertebrata                        | Amphibia       | Anura                                |            | Glandirana   | <i>Glandirana rugosa</i> | Wrinkled frog        |   |                                      |                                   |                        |                            |                            |                                  |                                |        |            |                   |           |      |
| Coarse Particulate Organic Matter | -              | -                                    |            | -            | -                        | Bottom fallen leaves | -                                       | 0.24                                 | -                                 | -                      | -                          | -                          | 22                               | N.D.(0.83)                     | 22     | -          |                   |           |      |

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

\*6: 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.

\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.

| Location             | Sampling point                    | Sampling date                        | Division   | Class                             | Order                          | Family               | Scientific name                 | English name                            | Population                        | Sample weight (kg-wet) | Note         |                            |  | Radioactive cesium (Bq/kg-wet) |           |            | Sr-90 (Bq/kg-wet) |       |      |                 |       |   |     |            |           |    |
|----------------------|-----------------------------------|--------------------------------------|------------|-----------------------------------|--------------------------------|----------------------|---------------------------------|---|-----------------------------------|------------------------|--------------|----------------------------|--|--------------------------------|-----------|------------|-------------------|-------|------|-----------------|-------|---|-----|------------|-----------|----|
|                      |                                   |                                      |            |                                   |                                |                      |                                 |   |                                   |                        | Growth stage | Stomach contents           | Measurement site                       | Total                          | Cs-134    | Cs-137     |                   |       |      |                 |       |   |     |            |           |    |
| Abukuma River System | B-2                               | The main stream of the Abukuma River | 2020/8/5   | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cyprinidae                      | <i>Tribolodon hakonensis</i>            | Japanese dace                     | 6                      | 1.7          | Mature fish                | Obscure digesta                        | Viscera removed                | 5.7       | N.D.(0.50) | 5.7               | 0.20  |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cyprinidae                      | <i>Hemibarbus barbus</i>                | Hemibarbus barbus                 | 2                      | 2.2          | Mature fish                | Empty stomach                          | Viscera removed                | 4.1       | N.D.(0.33) | 4.1               | 0.53  |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Salmoniformes        | Osmeridae                       | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                         | 1                      | 0.059        | Mature fish                | -                                      | -                              | 2.4       | N.D.(1.2)  | 2.4               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Perciformes          | Centrarchidae                   | <i>Micropterus dolomieu</i>             | Small mouth bass                  | 3                      | 0.46         | Immature fish              | Obscure digesta                        | Viscera removed                | 4.4       | N.D.(0.96) | 4.4               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Siluriformes         | Ictaluridae                     | <i>Ictalurus punctatus</i>              | Channel catfish                   | 6                      | 6.5          | Immature fish, Mature fish | Red swamp crawfish, Terrestrial insect | Viscera removed                | 11.75     | 0.75       | 11                | 0.21  |      |                 |       |   |     |            |           |    |
|                      | B-3                               | Surikami River                       | 2020/8/21  | Algae/plant                       | -                              | -                    | -                               | -                                       | Riverbed Deposits (Include algae) | -                      | 0.0087       | -                          | -                                      | -                              | 34        | N.D.(4.3)  | 34                | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      | 2020/8/5   | Arthropoda                        | Insecta                        | Trichoptera          | Stenopsychidae                  | <i>Stenopsyche marmorata</i>            | <i>Stenopsyche marmorata</i>      | 100                    | 0.027        | Larva                      | -                                      | -                              | -         | 8.4        | N.D.(2.9)         | 8.4   | -    |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Corduliidae                     | <i>Macromia amphigena amphigena</i>     | <i>Macromia amphigena</i>         | 89                     | 0.030        | Larva(Dragonfly larva)     | -                                      | -                              | N.D.      | N.D.(4.9)  | N.D.(2.8)         | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Gomphidae                       | <i>Stylogomphus suzukii</i>             | <i>Stylogomphus suzukii</i>       |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Gomphidae                       | <i>Melligomphus viridicostus</i>        | <i>Melligomphus viridicostus</i>  |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Gomphidae                       | <i>Sieboldius albardae</i>              | <i>Sieboldius albardae</i>        |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Gomphidae                       | <i>Davidius sp.</i>                     | <i>Davidius</i>                   |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Gomphidae                       | <i>Asiagomphus melaenops</i>            | <i>Asiagomphus melaenops</i>      |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Libellulidae                    | <i>Sympetrum sp.</i>                    | <i>Sympetrum</i>                  |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Odonata              | Aeshnidae                       | <i>Boyeria maclachlani</i>              | <i>Boyeria maclachlani</i>        |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Arthropoda                        | Insecta                        | Megaloptera          | Corydalidae                     | <i>Protohermes grandis</i>              | <i>Protohermes grandis</i>        |                        |              |                            |  |                                |           |            |                   |       | 13   | 0.0071          | Larva | - | -   | 13         | N.D.(7.0) | 13 |
|                      |                                   |                                      | Arthropoda | Malacostraca                      | Decapoda                       | Cambaridae           | <i>Procambarus clarkii</i>      | Red swamp crawfish                      | 10                                |                        |              |                            |  |                                |           |            |                   |       | 0.12 | Juvenile, Imago | -     | - | 4.9 | N.D.(0.46) | 4.9       | -  |
|                      |                                   |                                      | Mollusca   | Gastropoda                        | Discopoda                      | Pleuroceridae        | <i>Semisulcospira libertina</i> | <i>Semisulcospira libertina</i>         | 26                                | 0.0078                 | Imago        | -                          | Molluscous part                        | 4.0                            | N.D.(4.2) | 4.0        | -                 |       |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      | 2020/8/21  | Vertebrata                        | Osteichthyes                   | Anguilliformes       | Anguillidae                     | <i>Anguilla japonica</i>                | Japanese eel                      | 1                      | 0.079        | Immature fish              | Obscure digesta                        | Viscera removed                | 1.9       | N.D.(1.3)  | 1.9               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      | 2020/8/5   | Vertebrata                        | Osteichthyes                   | Scorpaeniformes      | Cottidae                        | <i>Cottus pollux</i>                    | Japanese fluvial sculpin          | 10                     | 0.076        | Immature fish              | -                                      | -                              | 5.2       | N.D.(1.5)  | 5.2               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cyprinidae                      | <i>Phoxinus lagowskii steindachneri</i> | Amur minnow                       | 27                     | 0.21         | Immature fish, Mature fish | -                                      | -                              | 4.3       | N.D.(0.34) | 4.3               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cyprinidae                      | <i>Tribolodon hakonensis</i>            | Japanese dace                     | 28                     | 0.13         | Immature fish              | -                                      | -                              | 5.4       | N.D.(1.1)  | 5.4               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      | 2020/8/21  | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cyprinidae                      | <i>Opsariichthys platypus</i>           | Pale chub                         | 5                      | 0.029        | Immature fish              | -                                      | -                              | 3.0       | N.D.(3.0)  | 3.0               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      | 2020/8/5   | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cyprinidae                      | <i>Candidia temminckii</i>              | Dark chub                         | 29                     | 0.067        | Immature fish              | -                                      | -                              | 5.6       | N.D.(2.1)  | 5.6               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cobitidae                       | <i>Misgurnus anguillicaudatus</i>       | Oriental weatherfish              | 42                     | 0.20         | Immature fish, Mature fish | -                                      | -                              | 3.5       | N.D.(1.1)  | 3.5               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Cypriniformes        | Cobitidae                       | <i>Nemacheilus toni</i>                 | Stone loach                       | 49                     | 0.48         | Immature fish              | -                                      | -                              | 3.9       | N.D.(1.1)  | 3.9               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Salmoniformes        | Osmeridae                       | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                         | 41                     | 1.5          | Immature fish, Mature fish | -                                      | -                              | 1.4       | N.D.(0.92) | 1.4               | 0.047 |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Salmoniformes        | Salmonidae                      | <i>Oncorhynchus masou</i>               | Yamame trout                      | 1                      | 0.12         | Immature fish              | Terrestrial insect                     | Viscera removed                | 6.9       | N.D.(1.6)  | 6.9               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Osteichthyes                   | Siluriformes         | Bagridae                        | <i>Tachysurus tokiensis</i>             | Cut-tailed bullhead               | 1                      | 0.0056       | Immature fish              | -                                      | -                              | 8.5       | N.D.(7.9)  | 8.5               | -     |      |                 |       |   |     |            |           |    |
|                      |                                   |                                      |            | Vertebrata                        | Amphibia                       | Anura                | -                               | -                                       | Frog                              | 12                     | 0.0064       | Larva(Tadpole)             | -                                      | -                              | 101.6     | 6.6        | 95                | -     |      |                 |       |   |     |            |           |    |
| Vertebrata           | Amphibia                          | Anura                                |            | Lithobates                        | <i>Lithobates catesbeianus</i> | American bullfrog    | 2                               | 0.45                                    | Imago                             | -                      | -            | 5.3                        | N.D.(1.2)                              | 5.3                            | -         |            |                   |       |      |                 |       |   |     |            |           |    |
| Vertebrata           | Amphibia                          | Anura                                |            | Glandirana                        | <i>Glandirana rugosa</i>       | <u>Wrinkled frog</u> | 8                               | 0.036                                   | Imago                             | -                      | -            | 10                         | N.D.(3.0)                              | 10                             | -         |            |                   |       |      |                 |       |   |     |            |           |    |
| Vertebrata           | Amphibia                          | Anura                                | Pelophylax | <i>Pelophylax porosus porosus</i> | Tokyo daruma pond frog         |                      |                                 |   |                                   |                        |              |                            |  |                                |           |            |                   |       |      |                 |       |   |     |            |           |    |
| 2020/8/21            | Coarse Particulate Organic Matter | -                                    | -          | -                                 | -                              | Bottom fallen leaves | -                               | 0.23                                    | -                                 | -                      | -            | 3.8                        | N.D.(0.49)                             | 3.8                            | -         |            |                   |       |      |                 |       |   |     |            |           |    |

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\*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.

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\*8: Activity concentrations include counting errors, but the details are omitted here.

| Location  | Sampling point | Sampling date                    | Division | Class                             | Order              | Family             | Scientific name | English name                            | Population                 | Sample weight (kg-wet) | Note         |                            |                  | Radioactive cesium (Bq/kg-wet) |          |            | Sr-90 (Bq/kg-wet) |      |
|-----------|----------------|----------------------------------|----------|-----------------------------------|--------------------|--------------------|-----------------|---|----------------------------|------------------------|--------------|----------------------------|------------------|--------------------------------|----------|------------|-------------------|------|
|           |                |                                  |          |                                   |                    |                    |                 |   |                            |                        | Growth stage | Stomach contents           | Measurement site | Total                          | Cs-134   | Cs-137     |                   |      |
| Uda River | C-6            | The main stream of the Uda River | 2020/8/5 | Algae/plant                       | -                  | -                  | -               | Riverbed Deposits (Include algae)       | -                          | 0.0021                 | -            | -                          | -                | 33                             | N.D.(15) | 33         | -                 |      |
|           |                |                                  | 2020/8/6 | Arthropoda                        | Insecta            | Megaloptera        | Corydalidae     | <i>Parachauliodes sp.</i>               | <u>Parachauliodes</u>      | 17                     | 0.0099       | Larva                      | -                | -                              | 4.6      | N.D.(4.8)  | 4.6               | -    |
|           |                |                                  | 2020/8/5 | Arthropoda                        | Malacostraca       | Decapoda           | Cambaridae      | <i>Procambarus clarkii</i>              | Red swamp crawfish         | 2                      | 0.026        | Imago                      | -                | -                              | 3.1      | N.D.(1.8)  | 3.1               | -    |
|           |                |                                  |          | Arthropoda                        | Malacostraca       | Decapoda           | Palaemonidae    | <i>Palaemon paucidens</i>               | Common prawn               | 35                     | 0.045        | Imago                      | -                | -                              | 2.0      | N.D.(2.3)  | 2.0               | -    |
|           |                |                                  | 2020/8/6 | Arthropoda                        | Malacostraca       | Decapoda           | Atyidae         | <i>Paratya improvisa</i>                | Freshwater shrimp          | 65                     | 0.013        | Juvenile, Imago            | -                | -                              | 4.1      | N.D.(2.6)  | 4.1               | -    |
|           |                |                                  | 2020/8/5 | Arthropoda                        | Malacostraca       | Decapoda           | Varunidae       | <i>Eriocheir japonica</i>               | Japanese mitten crab       | 12                     | 0.20         | Juvenile                   | -                | -                              | 5.0      | N.D.(0.41) | 5.0               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Anguilliformes     | Anguillidae     | <i>Anguilla japonica</i>                | Japanese eel               | 2                      | 0.45         | Immature fish, Mature fish | Empty stomach    | Viscera removed                | 15.72    | 0.72       | 15                | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Cypriniformes      | Cyprinidae      | <i>Tribolodon hakonensis</i>            | Japanese dace              | 8                      | 0.13         | Immature fish              | -                | -                              | 2.9      | N.D.(0.44) | 2.9               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Cypriniformes      | Cyprinidae      | <i>Opsariichthys platypus</i>           | Pale chub                  | 5                      | 0.061        | Immature fish              | -                | -                              | 4.8      | N.D.(2.2)  | 4.8               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Cypriniformes      | Cyprinidae      | <i>Candidia temminckii</i>              | Dark chub                  | 20                     | 0.23         | Immature fish, Mature fish | -                | -                              | 4.1      | N.D.(0.44) | 4.1               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Cypriniformes      | Cyprinidae      | <i>Cyprinus carpio</i>                  | Common carp                | 3                      | 0.011        | Immature fish              | -                | -                              | 7.4      | N.D.(9.0)  | 7.4               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Cypriniformes      | Cobitidae       | <i>Cobitis biwae</i>                    | Cobitis biwae              | 13                     | 0.038        | Mature fish                | -                | -                              | 2.6      | N.D.(1.9)  | 2.6               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Salmoniformes      | Osmeridae       | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                  | 34                     | 0.44         | Immature fish, Mature fish | -                | -                              | 15.82    | 0.82       | 15                | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Perciformes        | Gobiidae        | <i>Gymnogobius urotaenia</i>            | Goby                       | 14                     | 0.11         | Immature fish              | -                | -                              | 6.5      | N.D.(0.53) | 6.5               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Perciformes        | Gobiidae        | <i>Rhinogobius fluviatilis</i>          | Rhinogobius fluviatilis    | 34                     | 0.087        | Immature fish, Mature fish | -                | -                              | 5.3      | N.D.(0.99) | 5.3               | -    |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Perciformes        | Gobiidae        | <i>Rhinogobius nagoyae</i>              | <u>Rhinogobius nagoyae</u> |                        |              |                            |                  |                                |          |            |                   |      |
|           |                |                                  |          | Vertebrata                        | Osteichthyes       | Siluriformes       | Bagridae        | <i>Tachysurus tokiensis</i>             | Cut-tailed bullhead        | 1                      | 0.020        | Mature fish                | -                | -                              | 4.9      | N.D.(2.6)  | 4.9               | -    |
|           |                |                                  |          | Vertebrata                        | Cephalaspidomorpha | Petromyzontiformes | Petromyzontidae | <i>Lethenteron reissneri</i>            | Far eastern brook lamprey  | 3                      | 0.0086       | Ammocoetes(larva)          | -                | -                              | N.D.     | N.D.(4.4)  | N.D.(4.1)         | -    |
|           |                |                                  |          | Coarse Particulate Organic Matter | -                  | -                  | -               | -                                       | -                          | Bottom fallen leaves   | -            | 0.18                       | -                | -                              | -        | 0.82       | N.D.(0.46)        | 0.82 |

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\*8: Activity concentrations include counting errors, but the details are omitted here.

| Location   | Sampling point | Sampling date                     | Division      | Class                             | Order                             | Family             | Scientific name                         | English name                            | Population                        | Sample weight (kg-wet) | Note                         |   |                  | Radioactive cesium (Bq/kg-wet) |           |           | Sr-90 (Bq/kg-wet) |           |           |    |
|------------|----------------|-----------------------------------|---------------|-----------------------------------|-----------------------------------|--------------------|---|---|-----------------------------------|------------------------|------------------------------|---|------------------|--------------------------------|-----------|-----------|-------------------|-----------|-----------|----|
|            |                |                                   |               |                                   |                                   |                    |   |   |                                   |                        | Growth stage                 | Stomach contents                            | Measurement site | Total                          | Cs-134    | Cs-137    |                   |           |           |    |
| Mano River | D-3            | 2020/8/6                          | Arthropoda    | Malacostraca                      | Decapoda                          | Cambaridae         | <i>Procambarus clarkii</i>              | Red swamp crawfish                      | 1                                 | 0.0042                 | Juvenile                     | -   | -                | 3.2                            | N.D.(4.1) | 3.2       | -                 |           |           |    |
|            |                |                                   | Vertebrata    | Osteichthyes                      | Anguilliformes                    | Anguillidae        | <i>Anguilla japonica</i>                | Japanese eel                            | 4                                 | 1.3                    | Immature fish,Mature fish    | Fish  | Viscera removed  | 20.3                           | 1.3       | 19        | 0.097             |           |           |    |
|            |                |                                   | Vertebrata    | Osteichthyes                      | Scorpaeniformes                   | Cottidae           | <i>Cottus reinii</i>                    | Sculpin                                 | 2                                 | 0.064                  | Immature fish                | Roe   | Viscera removed  | 6.5                            | N.D.(2.9) | 6.5       | -                 |           |           |    |
|            |                | 2020/8/24                         | Vertebrata    | Osteichthyes                      | Cypriniformes                     | Cyprinidae         | <i>Tribolodon hakonensis</i>            | Japanese dace                           | 1                                 | 0.020                  | Immature fish                | -   | -                | 8.1                            | N.D.(7.0) | 8.1       | -                 |           |           |    |
|            |                |                                   | Vertebrata    | Osteichthyes                      | Cypriniformes                     | Cyprinidae         | <i>Opsariichthys platypus</i>           | Pale chub                               | 4                                 | 0.037                  | Immature fish                | -   | -                | 5.0                            | N.D.(3.7) | 5.0       | -                 |           |           |    |
|            |                |                                   | Vertebrata    | Osteichthyes                      | Cypriniformes                     | Cyprinidae         | <i>Gnathopogon elongatus elongatus</i>  | Gnathopogon elongatus elongatus         | 2                                 | 0.018                  | Mature fish                  | -   | -                | 4.3                            | N.D.(2.7) | 4.3       | -                 |           |           |    |
|            |                | 2020/8/6                          | Vertebrata    | Osteichthyes                      | Salmoniformes                     | Osmeridae          | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                               | 91                                | 1.5                    | Immature fish,Mature fish    | -   | -                | 10                             | N.D.(1.1) | 10        | 0.16              |           |           |    |
|            |                |                                   | Vertebrata    | Osteichthyes                      | Salmoniformes                     | Osmeridae          | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                               | 53                                | 0.94                   | Immature fish,Mature fish    | -   | -                | 19                             | N.D.(1.2) | 19        | 0.20              |           |           |    |
|            |                |                                   | Vertebrata    | Amphibia                          | Anura                             | Lithobates         | <i>Lithobates catesbeianus</i>          | American bullfrog                       | 2                                 | 0.015                  | Larva(Tadpole)               | -   | -                | 78                             | N.D.(5.9) | 78        | -                 |           |           |    |
|            | D-4 b          | The main stream of the Mano River | 2020/8/6      | Algae/plant                       | -                                 | -                  | -                                       | -                                       | Riverbed Deposits (Include algae) | -                      | 0.0041                       | -   | -                | -                              | 8.9       | N.D.(7.3) | 8.9               | -         |           |    |
|            |                |                                   |               | Arthropoda                        | Insecta                           | Odonata            | Corduliidae                             | <i>Macromia amphigena amphigena</i>     | Macromia amphigena                | 69                     | 0.0092                       | Larva(Dragonfly larva)                      | -                | -                              | 8.7       | N.D.(9.8) | 8.7               | -         |           |    |
|            |                |                                   |               | Arthropoda                        | Insecta                           | Odonata            | Cordulegasteridae                       | <i>Anotogaster sieboldii</i>            | Anotogaster sieboldii             |                        |                              |   |                  |                                |           |           |                   |           |           |    |
|            |                |                                   |               | Arthropoda                        | Insecta                           | Odonata            | Gomphidae                               | <i>Sieboldius albardae</i>              | Sieboldius albardae               |                        |                              |   |                  |                                |           |           |                   |           |           |    |
|            |                |                                   |               | Arthropoda                        | Insecta                           | Odonata            | Gomphidae                               | <i>Davidius sp.</i>                     | Davidius                          |                        |                              |   |                  |                                |           |           |                   |           |           |    |
|            |                |                                   |               | Arthropoda                        | Insecta                           | Odonata            | Aeshnidae                               | <i>Boyeria maclachlani</i>              | Boyeria maclachlani               |                        |                              |   |                  |                                |           |           |                   |           |           |    |
|            |                |                                   |               | Arthropoda                        | Insecta                           | Megaloptera        | Corydalidae                             | <i>Protohermes grandis</i>              | Protohermes grandis               | 14                     | 0.0080                       | Larva                                       | -                | -                              | 4.5       | N.D.(4.6) | 4.5               | -         |           |    |
|            |                |                                   |               | Arthropoda                        | Malacostraca                      | Decapoda           | Palaemonidae                            | <i>Palaemon paucidens</i>               | Common prawn                      | 27                     | 0.032                        | Imago                                       | -                | -                              | 7.9       | N.D.(3.4) | 7.9               | -         |           |    |
|            |                |                                   |               | Arthropoda                        | Malacostraca                      | Decapoda           | Atyidae                                 | <i>Paratya improvisa</i>                | Freshwater shrimp                 | 45                     | 0.0097                       | Juvenile,Imago                              | -                | -                              | 8.4       | N.D.(7.2) | 8.4               | -         |           |    |
|            |                |                                   |               | Arthropoda                        | Malacostraca                      | Decapoda           | Varunidae                               | <i>Eriocheir japonica</i>               | Japanese mitten crab              | 1                      | 0.050                        | Juvenile                                    | -                | -                              | 14        | N.D.(3.6) | 14                | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Anguilliformes     | Anguillidae                             | <i>Anguilla japonica</i>                | Japanese eel                      | 1                      | 0.63                         | Mature fish                                 | Obscure digesta  | Viscera removed                | 35.8      | 1.8       | 34                | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Cypriniformes      | Cyprinidae                              | <i>Phoxinus lagowskii steindachneri</i> | Amur minnow                       | 6                      | 0.0092                       | Immature fish,Mature fish                   | -                | -                              | 8.1       | N.D.(4.7) | 8.1               | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Cypriniformes      | Cyprinidae                              | <i>Tribolodon hakonensis</i>            | Japanese dace                     | 2                      | 0.031                        | Immature fish                               | -                | -                              | 12        | N.D.(4.1) | 12                | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Cypriniformes      | Cyprinidae                              | <i>Opsariichthys platypus</i>           | Pale chub                         | 21                     | 0.18                         | Immature fish,Mature fish                   | -                | -                              | 9.3       | N.D.(1.4) | 9.3               | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Cypriniformes      | Cyprinidae                              | <i>Gnathopogon elongatus elongatus</i>  | Gnathopogon elongatus elongatus   | 7                      | 0.013                        | Immature fish                               | -                | -                              | 12        | N.D.(8.3) | 12                | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Cypriniformes      | Cobitidae                               | <i>Misgurnus anguillicaudatus</i>       | Oriental weatherfish              | 4                      | 0.033                        | Immature fish,Mature fish                   | -                | -                              | 3.5       | N.D.(3.1) | 3.5               | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Salmoniformes      | Osmeridae                               | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                         | 68                     | 0.99                         | Immature fish,Mature fish                   | -                | -                              | 27        | N.D.(2.0) | 27                | 0.25      |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Perciformes        | Centrarchidae                           | <i>Micropterus dolomieu</i>             | Small mouth bass                  | 1                      | 0.60                         | Mature fish                                 | Fish             | Viscera removed                | 115.6     | 5.6       | 110               | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Perciformes        | Centrarchidae                           | <i>Lepomis macrochirus</i>              | Bluegill                          | 1                      | 0.018                        | Immature fish                               | -                | -                              | 25        | N.D.(2.4) | 25                | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Perciformes        | Gobiidae                                | <i>Gymnogobius urotaenia</i>            | Goby                              | 3                      | 0.021                        | Immature fish                               | -                | -                              | 6.5       | N.D.(5.7) | 6.5               | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Perciformes        | Gobiidae                                | <i>Rhinogobius nagoyae</i>              | Rhinogobius nagoyae               | 8                      | 0.024                        | Immature fish,Mature fish                   | -                | -                              | 16        | N.D.(4.0) | 16                | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Perciformes        | Gobiidae                                | <i>Rhinogobius kurodai</i>              | Rhinogobius kurodai               |                        |                              |   |                  |                                |           |           |                   |           |           |    |
|            |                |                                   |               | Vertebrata                        | Osteichthyes                      | Siluriformes       | Siluridae                               | <i>Silurus asotus</i>                   | Amur catfish                      | 1                      | 0.54                         | Mature fish                                 | Obscure digesta  | Viscera removed                | 71.5      | 3.5       | 68                | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Cephalaspidomorphi                | Petromyzontiformes | Petromyzontidae                         | <i>Lethenteron reissneri</i>            | Far eastern brook lamprey         | 8                      | 0.023                        | Ammocoetes(larva)                           | -                | -                              | 4.0       | N.D.(2.8) | 4.0               | -         |           |    |
|            |                |                                   |               | Vertebrata                        | Amphibia                          | Anura              | Ranidae                                 | <i>Rana japonica</i>                    | Japanese brown frog               | 1                      | 0.016                        | Imago                                       | -                | -                              | 8.5       | N.D.(5.6) | 8.5               | -         |           |    |
|            |                |                                   |               | Coarse Particulate Organic Matter | -                                 | -                  | -                                       | -                                       | -                                 | -                      | 0.20                         | Bottom fallen leaves                        | -                | -                              | -         | -         | 3.9               | N.D.(1.7) | 3.9       | -  |
|            |                |                                   |               | D-5                               | The main stream of the Mano River | 2020/8/6           | Arthropoda                              | Insecta                                 | Trichoptera                       | Stenopsychidae         | <i>Stenopsyche marmorata</i> | Stenopsyche marmorata                       | 104              | 0.024                          | Larva     | -         | -                 | 35        | N.D.(6.2) | 35 |
| Arthropoda | Insecta        | Megaloptera                       | Corydalidae   |                                   |                                   |                    | <i>Protohermes grandis</i>              | Protohermes grandis                     | 47                                | 0.026                  | Larva                        | -   | -                | 4.8                            | N.D.(5.3) | 4.8       | -                 |           |           |    |
| Vertebrata | Osteichthyes   | Anguilliformes                    | Anguillidae   |                                   |                                   |                    | <i>Anguilla japonica</i>                | Japanese eel                            | 1                                 | 0.029                  | Immature fish                | Ephemeroptera                               | Viscera removed  | 5.1                            | N.D.(5.3) | 5.1       | -                 |           |           |    |
| Vertebrata | Osteichthyes   | Cypriniformes                     | Cyprinidae    |                                   |                                   |                    | <i>Tribolodon hakonensis</i>            | Japanese dace                           | 90                                | 0.13                   | Immature fish                | -   | -                | 8.2                            | N.D.(1.2) | 8.2       | -                 |           |           |    |
| Vertebrata | Osteichthyes   | Cypriniformes                     | Cyprinidae    |                                   |                                   |                    | <i>Opsariichthys platypus</i>           | Pale chub                               | 1                                 | 0.012                  | Immature fish                | -   | -                | 17                             | N.D.(4.4) | 17        | -                 |           |           |    |
| Vertebrata | Osteichthyes   | Perciformes                       | Centrarchidae |                                   |                                   |                    | <i>Lepomis macrochirus</i>              | Bluegill                                | 1                                 | 0.0087                 | Immature fish                | -   | -                | 20                             | N.D.(8.0) | 20        | -                 |           |           |    |
| Vertebrata | Osteichthyes   | Siluriformes                      | Bagridae      |                                   |                                   |                    | <i>Tachysurus tokiensis</i>             | Cut-tailed bullhead                     | 1                                 | 0.018                  | Immature fish                | -   | -                | 7.9                            | N.D.(5.4) | 7.9       | -                 |           |           |    |
| Vertebrata | Osteichthyes   | Siluriformes                      | Siluridae     |                                   |                                   |                    | <i>Silurus asotus</i>                   | Amur catfish                            | 3                                 | 0.86                   | Immature fish,Mature fish    | Worm,Oriental weatherfish,Freshwater shrimp | Viscera removed  | 15                             | N.D.(1.0) | 15        | -                 |           |           |    |
| Vertebrata | Amphibia       | Anura                             | Lithobates    |                                   |                                   |                    | <i>Lithobates catesbeianus</i>          | American bullfrog                       | 1                                 | 0.49                   | Imago                        | -   | -                | 35                             | N.D.(2.5) | 35        | -                 |           |           |    |

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\*3: For a sample made of multiple types of aquatic organisms, the English 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: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

\*6: 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.

\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.

| Location    | Sampling point                     | Sampling date                      | Division                          | Class              | Order              | Family          | Scientific name                         | English name                                   | Population                                     | Sample weight (kg-wet) | Note                      |                           |                  | Radioactive cesium (Bq/kg-wet) |           |           | Sr-90 (Bq/kg-wet) |   |
|-------------|------------------------------------|------------------------------------|-----------------------------------|--------------------|--------------------|-----------------|---|--|--|------------------------|---------------------------|---------------------------|------------------|--------------------------------|-----------|-----------|-------------------|---|
|             |                                    |                                    |                                   |                    |                    |                 |   |  |  |                        | Growth stage              | Stomach contents          | Measurement site | Total                          | Cs-134    | Cs-137    |                   |   |
| Niida River | E-2 b                              | The main stream of the Niida River | 2020/8/7                          | Algae/plant        | -                  | -               | -                                       | Riverbed Deposits (Include algae)              | -  | 0.0030                 | -                         | -                         | -                | 160                            | N.D.(26)  | 160       | -                 |   |
|             |                                    |                                    | 2020/8/22                         | Arthropoda         | Insecta            | Ephemeroptera   | Isonychiidae                            | <i>Isonychia valida</i>                        | <i>Isonychia valida</i>                        | 303                    | 0.021                     | Larva                     | -                | -                              | 178.5     | 8.5       | 170               | - |
|             |                                    |                                    | 2020/8/7                          | Arthropoda         | Insecta            | Trichoptera     | Stenopsychidae                          | <i>Stenopsyche marmorata</i>                   | <i>Stenopsyche marmorata</i>                   | 21                     | 0.0035                    | Larva                     | -                | -                              | 80        | N.D.(14)  | 80                | - |
|             |                                    |                                    |                                   | Arthropoda         | Insecta            | Megaloptera     | Corydalidae                             | <i>Protohermes grandis</i>                     | <i>Protohermes grandis</i>                     | 67                     | 0.033                     | Larva                     | -                | -                              | 13        | N.D.(6.1) | 13                | - |
|             |                                    |                                    |                                   | Arthropoda         | Malacostraca       | Decapoda        | Cambaridae                              | <i>Procambarus clarkii</i>                     | Red swamp crawfish                             | 1                      | 0.012                     | Imago                     | -                | -                              | 23        | N.D.(9.4) | 23                | - |
|             |                                    |                                    |                                   | Arthropoda         | Malacostraca       | Decapoda        | Palaemonidae                            | <i>Palaemon paucidens</i>                      | Common prawn                                   | 56                     | 0.061                     | Imago                     | -                | -                              | 15        | N.D.(4.2) | 15                | - |
|             |                                    |                                    |                                   | Arthropoda         | Malacostraca       | Decapoda        | Varunidae                               | <i>Eriocheir japonica</i>                      | Japanese mitten crab                           | 15                     | 0.15                      | Juvenile                  | -                | -                              | 32        | N.D.(1.3) | 32                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Anguilliformes  | Anguillidae                             | <i>Anguilla japonica</i>                       | Japanese eel                                   | 2                      | 0.55                      | Immature fish,Mature fish | Obscure digesta  | Viscera removed                | 57.0      | 3.0       | 54                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Scorpaeniformes | Cottidae                                | <i>Cottus pollux</i>                           | Japanese fluvial sculpin                       | 2                      | 0.031                     | Immature fish             | -                | -                              | 14        | N.D.(4.9) | 14                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cyprinidae                              | <i>Tribolodon hakonensis</i>                   | Japanese dace                                  | 68                     | 0.12                      | Immature fish             | -                | -                              | 17        | N.D.(2.0) | 17                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cyprinidae                              | <i>Opsariichthys platypus</i>                  | Pale chub                                      | 26                     | 0.16                      | Immature fish,Mature fish | -                | -                              | 13        | N.D.(1.1) | 13                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cyprinidae                              | <i>Sarcocheilichthys variegatus variegatus</i> | <i>Sarcocheilichthys variegatus variegatus</i> | 1                      | 0.0078                    | Immature fish             | -                | -                              | 18        | N.D.(18)  | 18                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cyprinidae                              | <i>Candidia temminckii</i>                     | Dark chub                                      | 1                      | 0.031                     | Mature fish               | -                | -                              | 18        | N.D.(4.0) | 18                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cyprinidae                              | <i>Carassius auratus</i>                       | <i>Carassius auratus langsdorfi</i>            | 1                      | 0.027                     | Mature fish               | -                | -                              | 24        | N.D.(3.9) | 24                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cyprinidae                              | <i>Hemibarbus barbus</i>                       | Hemibarbus barbus                              | 31                     | 0.039                     | Immature fish             | -                | -                              | 6.4       | N.D.(3.9) | 6.4               | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cobitidae                               | <i>Cobitis biwae</i>                           | <i>Cobitis biwae</i>                           | 3                      | 0.0091                    | Immature fish,Mature fish | -                | -                              | 21        | N.D.(9.1) | 21                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Cypriniformes   | Cobitidae                               | <i>Misgurnus anguillicaudatus</i>              | Oriental weatherfish                           | 3                      | 0.026                     | Immature fish,Mature fish | -                | -                              | 17        | N.D.(5.2) | 17                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Salmoniformes   | Osmeridae                               | <i>Plecoglossus altivelis altivelis</i>        | Sweetfish                                      | 15                     | 0.37                      | Immature fish,Mature fish | -                | -                              | 80.0      | 3.0       | 77                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Perciformes     | Gobiidae                                | <i>Rhinogobius fluviatilis</i>                 | <u>Rhinogobius fluviatilis</u>                 | 16                     | 0.055                     | Mature fish               | -                | -                              | 24        | N.D.(4.4) | 24                | - |
|             |                                    |                                    |                                   | Vertebrata         | Osteichthyes       | Perciformes     | Gobiidae                                | <i>Rhinogobius nagoyae</i>                     | <u>Rhinogobius nagoyae</u>                     |                        |                           |                           |                  |                                |           |           |                   |   |
|             |                                    |                                    | Vertebrata                        | Osteichthyes       | Siluriformes       | Siluridae       | <i>Silurus asotus</i>                   | Amur catfish                                   | 2  | 2.0                    | Mature fish               | Empty stomach             | Viscera removed  | 76.0                           | 4.0       | 72        | 0.93              |   |
|             |                                    |                                    | Vertebrata                        | Cephalaspidomorpha | Petromyzontiformes | Petromyzontidae | <i>Lethenteron reissneri</i>            | Far eastern brook lamprey                      | 9  | 0.024                  | Ammocoetes(larva)         | -                         | -                | 14                             | N.D.(6.3) | 14        | -                 |   |
|             |                                    |                                    | Vertebrata                        | Amphibia           | Anura              | -               | -                                       | Frog   | 116  | 0.12                   | Larva(Tadpole)            | -                         | -                | 538                            | 28        | 510       | -                 |   |
|             |                                    |                                    | Coarse Particulate Organic Matter | -                  | -                  | -               | -                                       | Bottom fallen leaves                           | -  | 0.21                   | -                         | -                         | -                | 40.7                           | 1.7       | 39        | -                 |   |
| E-3         | The main stream of the Niida River | 2020/8/25                          | Vertebrata                        | Osteichthyes       | Cypriniformes      | Cyprinidae      | <i>Pseudogobio esocinus esocinus</i>    | <i>Pseudogobio esocinus esocinus</i>           | 2  | 0.045                  | Mature fish               | -                         | -                | 6.1                            | N.D.(3.6) | 6.1       | -                 |   |
|             |                                    |                                    | Vertebrata                        | Osteichthyes       | Salmoniformes      | Osmeridae       | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                                      | 19   | 0.61                   | Immature fish,Mature fish | -                         | -                | 38.9                           | 1.9       | 37        | -                 |   |

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\*3: For a sample made of multiple types of aquatic organisms, the English 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.

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\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.

| Location   | Sampling point                    | Sampling date                    | Division  | Class                      | Order                          | Family               | Scientific name                         | English name                            | Population                     | Sample weight (kg-wet) | Note                      |                           |   | Radioactive cesium (Bq/kg-wet) |           |           | Sr-90 (Bq/kg-wet) |      |   |
|------------|-----------------------------------|----------------------------------|-----------|----------------------------|--------------------------------|----------------------|---|---|--------------------------------|------------------------|---------------------------|---------------------------|---|--------------------------------|-----------|-----------|-------------------|------|---|
|            |                                   |                                  |           |                            |                                |                      |   |   |                                |                        | Growth stage              | Stomach contents          | Measurement site  | Total                          | Cs-134    | Cs-137    |                   |      |   |
| Ota River  | F-1                               | The main stream of the Ota River | 2020/8/8  | Algae/plant                | -                              | -                    | -                                       | Riverbed Deposits (Include algae)       | -                              | 0.0056                 | -                         | -                         | -   | 312                            | 22        | 290       | -                 |      |   |
|            |                                   |                                  |           | Algae/plant                | Zygnematophyceae               | Zygnematales         | Zygnemataceae                           | <i>Spirogyra sp.</i>                    | Spirogyra                      | -                      | 0.065                     | -                         | -   | -                              | 115.9     | 5.9       | 110               | -    |   |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Trichoptera          | Stenopsychidae                          | <i>Stenopsyche marmorata</i>            | Stenopsyche marmorata          | 64                     | 0.0083                    | Larva                     | -   | -                              | -         | 120       | N.D.(20)          | 120  | - |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Odonata              | Corduliidae                             | <i>Macromia amphigena amphigena</i>     | Macromia amphigena             | 32                     | 0.0090                    | Larva(Dragonfly larva)    | -   | -                              | -         | 35        | N.D.(5.3)         | 35   | - |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Odonata              | Cordulegastriidae                       | <i>Anotogaster sieboldii</i>            | Anotogaster sieboldii          |                        |                           |                           |   |                                |           |           |                   |      |   |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Odonata              | Gomphidae                               | <i>Stylogomphus suzukii</i>             | Stylogomphus suzukii           |                        |                           |                           |   |                                |           |           |                   |      |   |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Odonata              | Gomphidae                               | <i>Sieboldius albardae</i>              | Sieboldius albardae            |                        |                           |                           |   |                                |           |           |                   |      |   |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Odonata              | Gomphidae                               | <i>Davidius sp.</i>                     | Davidius                       |                        |                           |                           |   |                                |           |           |                   |      |   |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Odonata              | Gomphidae                               | <i>Asiagomphus melaenops</i>            | Asiagomphus melaenops          |                        |                           |                           |   |                                |           |           |                   |      |   |
|            |                                   |                                  |           | Arthropoda                 | Insecta                        | Odonata              | Libellulidae                            | <i>Orthemtrum albistylum speciosum</i>  | Common skimmer                 |                        |                           |                           |   |                                |           |           |                   |      |   |
|            |                                   |                                  |           | Arthropoda                 | Malacostraca                   | Decapoda             | Palaemonidae                            | <i>Palaemon paucidens</i>               | Common prawn                   | 59                     | 0.089                     | Imago                     | -   | -                              | -         | 125.0     | 5.0               | 120  | - |
|            |                                   |                                  |           | Arthropoda                 | Malacostraca                   | Decapoda             | Varunidae                               | <i>Eriocheir japonica</i>               | Japanese mitten crab           | 7                      | 0.15                      | Juvenile                  | -   | -                              | -         | 169.3     | 9.3               | 160  | - |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Anguilliformes       | Anguillidae                             | <i>Anguilla japonica</i>                | Japanese eel                   | 12                     | 3.1                       | Immature fish,Mature fish | Worm,Fish,Spiders, Macromia amphigena,Stenopsyche marmorata | Viscera removed                | 727       | 37        | 690               | 0.85 |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Cypriniformes        | Cyprinidae                              | <i>Tribolodon hakonensis</i>            | Japanese dace                  | 4                      | 0.14                      | Immature fish,Mature fish | -   | -                              | 219.2     | 9.2       | 210               | -    |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Cypriniformes        | Cyprinidae                              | <i>Carassius auratus</i>                | Carassius auratus langsdorffii | 2                      | 0.0099                    | Immature fish             | -   | -                              | 73        | N.D.(19)  | 73                | -    |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Cypriniformes        | Cobitidae                               | <i>Cobitis biwae</i>                    | Cobitis biwae                  | 16                     | 0.047                     | Immature fish,Mature fish | -   | -                              | 68        | N.D.(5.2) | 68                | -    |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Salmoniformes        | Osmeridae                               | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                      | 48                     | 1.7                       | Immature fish,Mature fish | -   | -                              | 253       | 13        | 240               | 1.5  |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Perciformes          | Gobiidae                                | <i>Rhinogobius fluviatilis</i>          | Rhinogobius fluviatilis        | 9                      | 0.036                     | Immature fish,Mature fish | -   | -                              | 309       | 19        | 290               | -    |   |
|            | Vertebrata                        | Amphibia                         | Anura     | Ranidae                    | <i>Rana japonica</i>           | Japanese brown frog  | 3                                       | 0.034                                   | Imago                          | -                      | -                         | 65.4                      | 3.4   | 62                             | -         |           |                   |      |   |
|            | Vertebrata                        | Amphibia                         | Anura     | Lithobates                 | <i>Lithobates catesbeianus</i> | American bullfrog    | 67                                      | 0.71                                    | Larva(Tadpole)                 | -                      | -                         | 230                       | 10  | 220                            | -         |           |                   |      |   |
|            | Vertebrata                        | Amphibia                         | Anura     | Lithobates                 | <i>Lithobates catesbeianus</i> | American bullfrog    | 1                                       | 0.13                                    | Imago                          | -                      | -                         | 42.5                      | 2.5   | 40                             | -         |           |                   |      |   |
|            | Coarse Particulate Organic Matter | -                                | -         | -                          | -                              | Bottom fallen leaves | -                                       | 0.25                                    | -                              | -                      | -                         | 98.6                      | 4.6   | 94                             | -         |           |                   |      |   |
|            | F-3                               | The main stream of the Ota River | 2020/8/8  | Vertebrata                 | Osteichthyes                   | Anguilliformes       | Anguillidae                             | <i>Anguilla japonica</i>                | Japanese eel                   | 3                      | 1.0                       | Mature fish               | Fish,Worm   | Viscera removed                | 337       | 17        | 320               | 0.55 |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Scorpaeniformes      | Cottidae                                | <i>Cottus reinii</i>                    | Sculpin                        | 1                      | 0.051                     | Immature fish             | Fish  | Viscera removed                | 117.3     | 7.3       | 110               | -    |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Cypriniformes        | Cyprinidae                              | <i>Tribolodon hakonensis</i>            | Japanese dace                  | 20                     | 0.022                     | Immature fish             | -   | -                              | 110       | N.D.(13)  | 110               | -    |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Cypriniformes        | Cyprinidae                              | <i>Opsariichthys platypus</i>           | Pale chub                      | 1                      | 0.0069                    | Immature fish             | -   | -                              | 96        | N.D.(19)  | 96                | -    |   |
|            |                                   |                                  |           | Vertebrata                 | Osteichthyes                   | Cypriniformes        | Cyprinidae                              | <i>Candidia temminckii</i>              | Dark chub                      | 13                     | 0.029                     | Immature fish             | -   | -                              | 26        | N.D.(10)  | 26                | -    |   |
|            | F-5                               | The main stream of the Ota River | 2020/8/22 | Arthropoda                 | Malacostraca                   | Decapoda             | Cambaridae                              | <i>Procambarus clarkii</i>              | Red swamp crawfish             | 2                      | 0.012                     | Juvenile,Imago            | -   | -                              | 82        | N.D.(3.4) | 82                | -    |   |
| Vertebrata |                                   |                                  |           | Osteichthyes               | Anguilliformes                 | Anguillidae          | <i>Anguilla japonica</i>                | Japanese eel                            | 12                             | 2.0                    | Immature fish,Mature fish | Worm                      | Viscera removed   | 59.0                           | 3.0       | 56        | 0.40              |      |   |
| Vertebrata |                                   |                                  |           | Osteichthyes               | Cypriniformes                  | Cyprinidae           | <i>Tribolodon hakonensis</i>            | Japanese dace                           | 149                            | 0.24                   | Immature fish             | -                         | -   | 40.9                           | 1.9       | 39        | -                 |      |   |
| Vertebrata |                                   |                                  |           | Osteichthyes               | Salmoniformes                  | Osmeridae            | <i>Plecoglossus altivelis altivelis</i> | Sweetfish                               | 51                             | 1.4                    | Immature fish,Mature fish | -                         | -   | 99.8                           | 4.8       | 95        | 0.81              |      |   |
| Vertebrata |                                   |                                  |           | Osteichthyes               | Perciformes                    | Gobiidae             | <i>Rhinogobius nagoyae</i>              | <u>Rhinogobius nagoyae</u>              | 15                             | 0.026                  | Immature fish,Mature fish | -                         | -   | 61                             | N.D.(5.0) | 61        | -                 |      |   |
| Vertebrata | Osteichthyes                      | Perciformes                      | Gobiidae  | <i>Rhinogobius kurodai</i> | Rhinogobius kurodai            |                      |   |   |                                |                        |                           |                           |   |                                |           |           |                   |      |   |

\*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.

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

\*6: 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.

\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.



| Location                          | Sampling point    | Sampling date | Division                          | Class         | Order                       | Family           | Scientific name                             | English name                            | Population                   | Sample weight (kg-wet)            | Note                      |                           |  | Radioactive cesium (Bq/kg-wet) |                 |           | Sr-90 (Bq/kg-wet) |      |      |
|-----------------------------------|-------------------|---------------|-----------------------------------|---------------|-----------------------------|------------------|---|---|------------------------------|-----------------------------------|---------------------------|---------------------------|--|--------------------------------|-----------------|-----------|-------------------|------|------|
|                                   |                   |               |                                   |               |                             |                  |   |   |                              |                                   | Growth stage              | Stomach contents          | Measurement site                                     | Total                          | Cs-134          | Cs-137    |                   |      |      |
| Lake Hayama                       | G-1<br>G-2<br>G-3 | In the lake   | 2020/8/24                         | Algae/plant   | -                           | -                | -   | -                                       | Plankton (Planktonic algae)  | -                                 | 0.021                     | -                         | -  | -                              | N.D.            | N.D.(1.9) | N.D.(1.8)         | -    |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Cypriniformes               | Cyprinidae       | <i>Cyprinus carpio</i>                      | Common carp                             | 1                            | 0.55                              | Mature fish               | Obscure digesta           | Viscera removed                                      | 11                             | N.D.(1.4)       | 11        | -                 |      |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Cypriniformes               | Cyprinidae       | <i>Cyprinus carpio</i>                      | Common carp                             | 5                            | 1.8                               | Immature fish,Mature fish | Obscure digesta           | Viscera removed                                      | 14                             | N.D.(0.95)      | 14        | 0.51              |      |      |
|                                   |                   |               | 2020/8/22                         | Vertebrata    | Osteichthyes                | Perciformes      | Centrarchidae                               | <i>Micropterus dolomieu</i>             | Small mouth bass             | 2                                 | 1.3                       | Mature fish               | Cicada,Fish  | Viscera removed                | 147.2           | 7.2       | 140               | 0.89 |      |
|                                   |                   |               | 2020/8/24                         | Vertebrata    | Osteichthyes                | Perciformes      | Centrarchidae                               | <i>Micropterus dolomieu</i>             | Small mouth bass             | 2                                 | 1.4                       | Mature fish               | Shrimp   | Viscera removed                | 147.6           | 7.6       | 140               | 0.87 |      |
|                                   |                   |               |                                   | 2020/8/22     | Vertebrata                  | Osteichthyes     | Perciformes                                 | Centrarchidae                           |                              |                                   |                           |                           |  |                                |                 |           |                   |      |      |
|                                   |                   |               |                                   | 2020/8/24     | Vertebrata                  | Osteichthyes     | Siluriformes                                | Siluridae                               | <i>Silurus asotus</i>        | Amur catfish                      | 1                         | 1.2                       | Mature fish  | Obscure digesta                | Viscera removed | 209.2     | 9.2               | 200  | 0.92 |
|                                   |                   | G-4           | Inflowing rivers                  | 2020/8/7      | Algae/plant                 | -                | -   | -                                       | -                            | Riverbed Deposits (Include algae) | -                         | 0.0028                    | -  | -                              | -               | 140       | N.D.(16)          | 140  | -    |
|                                   | Arthropoda        |               |                                   |               | Insecta                     | Ephemeroptera    | Isonychiidae                                | <i>Isonychia valida</i>                 | <u>Isonychia valida</u>      | 747                               | 0.024                     | Larva                     | -  | -                              | -               | 65        | N.D.(5.4)         | 65   | -    |
|                                   | Arthropoda        |               |                                   |               | Insecta                     | Megaloptera      | Corydalidae                                 | <i>Protohermes grandis</i>              | <u>Protohermes grandis</u>   | 8                                 | 0.0053                    | Larva                     | -  | -                              | -               | 5.6       | N.D.(7.1)         | 5.6  | -    |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Cypriniformes    | Cyprinidae                                  | <i>Phoxinus lagowskii steindachneri</i> | Amur minnow                  | 3                                 | 0.013                     | Immature fish,Mature fish | -  | -                              | -               | 11        | N.D.(6.2)         | 11   | -    |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Cypriniformes    | Cyprinidae                                  | <i>Tribolodon hakonensis</i>            | Japanese dace                | 90                                | 1.0                       | Immature fish             | -  | -                              | -               | 16.0      | 1.0               | 15   | 0.24 |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Cypriniformes    | Cyprinidae                                  | <i>Opsariichthys platypus</i>           | Pale chub                    | 2                                 | 0.025                     | Immature fish             | -  | -                              | -               | 25        | N.D.(2.2)         | 25   | -    |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Cypriniformes    | Cobitidae                                   | <i>Cobitis biwae</i>                    | Cobitis biwae                | 2                                 | 0.0059                    | Mature fish               | -  | -                              | -               | 25        | N.D.(15)          | 25   | -    |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Salmoniformes    | Salmonidae                                  | <i>Salvelinus leucomaenis</i>           | Char                         | 1                                 | 0.0042                    | Immature fish             | -  | -                              | -               | 20        | N.D.(15)          | 20   | -    |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Salmoniformes    | Salmonidae                                  | <i>Oncorhynchus masou</i>               | Yamame trout                 | 1                                 | 0.019                     | Immature fish             | -  | -                              | -               | 26        | N.D.(2.1)         | 26   | -    |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Perciformes      | Centrarchidae                               | <i>Micropterus dolomieu</i>             | Small mouth bass             | 3                                 | 4.1                       | Mature fish               | Japanese katydid,Frog,Fish,Isonychia japonica,Shrimp | Viscera removed                | 127.3           | 7.3       | 120               | 0.76 |      |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Perciformes      | Gobiidae                                    | <i>Rhinogobius fluviatilis</i>          | Rhinogobius fluviatilis      | 10                                | 0.025                     | Immature fish,Mature fish | -  | -                              | -               | 19        | N.D.(4.5)         | 19   | -    |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Perciformes      | Gobiidae                                    | <i>Rhinogobius flumineus</i>            | <u>Rhinogobius flumineus</u> |                                   |                           |                           |  |                                |                 |           |                   |      |      |
|                                   | Vertebrata        |               |                                   |               | Osteichthyes                | Siluriformes     | Siluridae                                   | <i>Silurus asotus</i>                   | Amur catfish                 | 1                                 | 1.3                       | Mature fish               | Rhaphidophoridae                                     | Viscera removed                | 211             | 11        | 200               | 0.95 |      |
| Vertebrata                        | Amphibia          |               |                                   |               | Anura                       | Bufo             | <i>Bufo japonicus formosus</i>              | Japanese toad                           | 1                            | 0.22                              | Imago                     | -                         | -  | -                              | 274             | 14        | 260               | -    |      |
| Coarse Particulate Organic Matter | -                 |               |                                   |               | -                           | -                | -   | -                                       | Bottom fallen leaves         | -                                 | 0.21                      | -                         | -  | -                              | 11              | N.D.(1.6) | 11                | -    |      |
| Lake Akimoto                      | H-1<br>H-2<br>H-3 | In the lake   | 2020/8/4                          | Algae/plant   | -                           | -                | -   | -                                       | Plankton (Planktonic algae)  | -                                 | 0.019                     | -                         | -  | -                              | 4.7             | N.D.(2.2) | 4.7               | -    |      |
|                                   |                   |               | Arthropoda                        | Malacostraca  | Decapoda                    | Astacidae        | <i>Pacifastacus leniusculus trowbridgii</i> | Signal crayfish                         | 5                            | 0.40                              | Imago                     | -                         | -  | -                              | 12              | N.D.(1.3) | 12                | -    |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Cypriniformes               | Cyprinidae       | <i>Tribolodon hakonensis</i>                | Japanese dace                           | 20                           | 3.3                               | Mature fish               | Obscure digesta           | Viscera removed                                      | 27.2                           | 1.2             | 26        | 0.59              |      |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Cypriniformes               | Cyprinidae       | <i>Carassius auratus</i>                    | <u>Carassius auratus langsdorffii</u>   | 4                            | 2.8                               | Mature fish               | Obscure digesta           | Viscera removed                                      | 20                             | N.D.(1.4)       | 20        | 1.2               |      |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Cypriniformes               | Cyprinidae       | <i>Cyprinus carpio</i>                      | Common carp                             | 1                            | 4.1                               | Mature fish               | Obscure digesta           | Viscera removed                                      | 11.73                          | 0.73            | 11        | 0.84              |      |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Cypriniformes               | Cyprinidae       | <i>Hemibarbus barbus</i>                    | Hemibarbus barbus                       | 2                            | 1.0                               | Mature fish               | Obscure digesta           | Viscera removed                                      | 39                             | N.D.(2.2)       | 39        | 1.2               |      |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Salmoniformes               | Osmeridae        | <i>Hypomesus nipponensis</i>                | Japanese smelt                          | 27                           | 0.14                              | Mature fish               | -                         | -  | -                              | 8.57            | 0.47      | 8.1               | -    |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Salmoniformes               | Salmonidae       | <i>Salvelinus leucomaenis</i>               | Char                                    | 5                            | 0.71                              | Mature fish               | Obscure digesta           | Viscera removed                                      | 20.2                           | 1.2             | 19        | -                 |      |      |
|                                   |                   |               | Vertebrata                        | Osteichthyes  | Salmoniformes               | Salmonidae       | <i>Oncorhynchus masou masou</i>             | Scema                                   | 1                            | 0.29                              | Immature fish             | Empty stomach             | Viscera removed                                      | 19.91                          | 0.91            | 19        | -                 |      |      |
|                                   | Vertebrata        | Osteichthyes  | Perciformes                       | Centrarchidae | <i>Micropterus dolomieu</i> | Small mouth bass | 10  | 2.3                                     | Immature fish,Mature fish    | Empty stomach                     | Viscera removed           | 44.7                      | 1.7  | 43                             | 1.0             |           |                   |      |      |
|                                   |                   |               | 2020/8/4                          | Vertebrata    | Osteichthyes                | Perciformes      | Centrarchidae                               | <i>Lepomis macrochirus</i>              | Bluegill                     | 1                                 | 0.043                     | Immature fish             | Obscure digesta                                      | Viscera removed                | 9.8             | 1.1       | 8.7               | -    |      |
| H-3                               | Inflowing rivers  | 2020/8/4      | Coarse Particulate Organic Matter | -             | -                           | -                | -   | -                                       | Bottom fallen leaves         | -                                 | 0.20                      | -                         | -  | -                              | 20.3            | 1.3       | 19                | -    |      |

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\*8: Activity concentrations include counting errors, but the details are omitted here.

| Location        | Sampling point                 | Sampling date                    | Division                               | Class                             | Order                             | Family                     | Scientific name   | English name                                | Population                        | Sample weight (kg-wet)      | Note              |                           |                           | Radioactive cesium (Bq/kg-wet) |                 |                 | Sr-90 (Bq/kg-wet) |           |      |
|-----------------|--------------------------------|----------------------------------|--|-----------------------------------|-----------------------------------|----------------------------|-------------------|---|-----------------------------------|-----------------------------|-------------------|---------------------------|---------------------------|--------------------------------|-----------------|-----------------|-------------------|-----------|------|
|                 |                                |                                  |  |                                   |                                   |                            |                   |   |                                   |                             | Growth stage      | Stomach contents          | Measurement site          | Total                          | Cs-134          | Cs-137          |                   |           |      |
| Lake Inawashiro | I-1<br>I-2<br>(north lakeside) | Within the lake and Nagase River | 2020/8/4                               | Arthropoda                        | Insecta                           | Odonata                    | Corduliidae       | <i>Macromia amphigena amphigena</i>         | Macromia amphigena                | 75                          | 0.023             | Larva(Dragonfly larva)    | -                         | -                              | 2.1             | N.D.(2.4)       | 2.1               | -         |      |
|                 |                                |                                  |  | Arthropoda                        | Insecta                           | Odonata                    | Gomphidae         | <i>Asiagomphus melaenops</i>                | Asiagomphus melaenops             |                             |                   |                           |                           |                                |                 |                 |                   |           |      |
|                 |                                |                                  |  | Arthropoda                        | Insecta                           | Odonata                    | Libellulidae      | <i>Sympetrum sp.</i>                        | <u>Sympetrum</u>                  |                             |                   |                           |                           |                                |                 |                 |                   |           |      |
|                 |                                |                                  |  | Arthropoda                        | Insecta                           | Odonata                    | Libellulidae      | <i>Orthetrum albistylum speciosum</i>       | Common skimmer                    |                             |                   |                           |                           |                                |                 |                 |                   |           |      |
|                 |                                |                                  |  | Arthropoda                        | Insecta                           | Odonata                    | Aeshnidae         | <i>Anax parthenope julius</i>               | Anax parthenope julius            |                             |                   |                           |                           |                                |                 |                 |                   |           |      |
|                 |                                |                                  |  | Arthropoda                        | Malacostraca                      | Decapoda                   | Cambaridae        | <i>Procambarus clarkii</i>                  | Red swamp crawfish                | 5                           | 0.049             | Juvenile,Imago            | -                         | -                              | 5.0             | N.D.(3.5)       | 5.0               | -         |      |
|                 |                                |                                  |  | Arthropoda                        | Malacostraca                      | Decapoda                   | Astacidae         | <i>Pacifastacus leniusculus trowbridgii</i> | Signal crayfish                   | 5                           | 0.058             | Juvenile,Imago            | -                         | -                              | 4.7             | N.D.(2.0)       | 4.7               | -         |      |
|                 |                                |                                  |  | Mollusca                          | Bivalvia                          | Unionoidea                 | Unionidae         | <i>Sinanodonta japonica</i>                 | Sinanodonta japonica              | 2                           | 0.011             | Juvenile,Imago            | -                         | Molluscos part                 | N.D.            | N.D.(4.0)       | N.D.(3.3)         | -         |      |
|                 |                                |                                  |  | Mollusca                          | Bivalvia                          | Veneroidea                 | Corbicula         | <i>Corbicula.sp</i>                         | Corbicula                         | 93                          | 0.015             | Imago                     | -                         | Molluscos part                 | 5.3             | N.D.(2.7)       | 5.3               | -         |      |
|                 |                                |                                  |  | Mollusca                          | Gastropoda                        | Discopoda                  | Pleuroceridae     | <i>Semisulcospira libertina</i>             | Semisulcospira libertina          | 30                          | 0.023             | Imago                     | -                         | Molluscos part                 | 2.4             | N.D.(2.3)       | 2.4               | -         |      |
|                 |                                |                                  |  | Vertebrata                        | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Tribolodon hakonensis</i>                | Japanese dace                     | 2                           | 0.023             | Immature fish             | -                         | -                              | 4.1             | N.D.(2.4)       | 4.1               | -         |      |
|                 |                                |                                  |  | Vertebrata                        | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Opsariichthys platypus</i>               | Pale chub                         | 1                           | 0.014             | Mature fish               | -                         | -                              | 2.8             | N.D.(3.0)       | 2.8               | -         |      |
|                 |                                |                                  |  | Vertebrata                        | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Carassius auratus langsdorfii</i>        | Carassius auratus langsdorfii     | 3                           | 0.067             | Immature fish,Mature fish | Obscure digesta           | Viscera removed                | 2.3             | N.D.(1.2)       | 2.3               | -         |      |
|                 |                                |                                  |  | Vertebrata                        | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Hemibarbus barbus</i>                    | Hemibarbus barbus                 | 2                           | 4.3               | Mature fish               | Obscure digesta           | Viscera removed                | 6.2             | N.D.(0.96)      | 6.2               | 0.32      |      |
|                 |                                |                                  |  | Vertebrata                        | Osteichthyes                      | Cypriniformes              | Cobitidae         | <i>Misgurnus anguillicaudatus</i>           | Oriental weatherfish              | 28                          | 0.051             | Immature fish,Mature fish | -                         | -                              | N.D.            | N.D.(1.8)       | N.D.(1.8)         | -         |      |
|                 |                                |                                  |  | Vertebrata                        | Osteichthyes                      | Perciformes                | Gobiidae          | <i>Gymnogobius urotaenia</i>                | Goby                              | 35                          | 0.20              | Immature fish             | -                         | -                              | 5.9             | N.D.(1.0)       | 5.9               | -         |      |
|                 |                                |                                  |  | Vertebrata                        | Osteichthyes                      | Siluriformes               | Siluridae         | <i>Silurus asotus</i>                       | Amur catfish                      | 1                           | 2.0               | Mature fish               | Lepidoptera(larva),Frog   | Viscera removed                | 22.2            | 1.2             | 21                | 0.24      |      |
|                 | Vertebrata                     | Amphibia                         | Anura                                  | Ranidae                           | <i>Rana japonica</i>              | <u>Japanese brown frog</u> | 5                 | 0.031                                       | Imago                             | -                           | -                 | 3.3                       | N.D.(2.3)                 | 3.3                            | -               |                 |                   |           |      |
|                 | Vertebrata                     | Amphibia                         | Anura                                  | Glandirana                        | <i>Glandirana rugosa</i>          | Wrinkled frog              |                   |   |                                   |                             |                   |                           |                           |                                |                 |                 |                   |           |      |
|                 |                                |                                  | 2020/8/3                               | Coarse Particulate Organic Matter | -                                 | -                          | -                 | -   | Bottom fallen leaves              | -                           | 0.18              | -                         | -                         | -                              | 0.61            | N.D.(0.52)      | 0.61              | -         |      |
|                 |                                | J-1<br>(south lakeside)          | Within the lake and around the Oninuma | 2020/8/3                          | Algae/plant                       | -                          | -                 | -   | -                                 | Plankton (Planktonic algae) | -                 | 0.013                     | -                         | -                              | -               | N.D.            | N.D.(3.4)         | N.D.(2.6) | -    |
|                 | Algae/plant                    |                                  |  |                                   | Dicotyledoneae                    | Nymphaeales                | Nymphaeaceae      | <i>Nuphar japonicum</i>                     | Cow lily                          | -                           | 0.30              | -                         | -                         | -                              | 1.1             | N.D.(0.69)      | 1.1               | -         |      |
|                 | Algae/plant                    |                                  |  |                                   | Dicotyledoneae                    | Solanales                  | Menyanthaceae     | <i>Nymphoides peltata</i>                   | Fringed water-lily                | -                           | 0.28              | -                         | -                         | -                              | 0.33            | N.D.(0.38)      | 0.33              | -         |      |
|                 | Algae/plant                    |                                  |  |                                   | Monocotyledoneae                  | Alismatales                | Hydrocharitaceae  | <i>Elodea nuttallii</i>                     | Western waterweed                 | -                           | 0.040             | -                         | -                         | -                              | N.D.            | N.D.(1.4)       | N.D.(1.1)         | -         |      |
|                 | Arthropoda                     |                                  |  |                                   | Insecta                           | Odonata                    | Cordulegastriidae | <i>Anotogaster sieboldii</i>                | <u>Anotogaster sieboldii</u>      | 5                           | 0.0069            | Larva(Dragonfly larva)    | -                         | -                              | N.D.            | N.D.(5.0)       | N.D.(2.6)         | -         |      |
|                 | Arthropoda                     |                                  |  |                                   | Insecta                           | Odonata                    | Aeshnidae         | <i>Polycanthagyna melanictera</i>           | <u>Polycanthagyna melanictera</u> |                             |                   |                           |                           |                                |                 |                 |                   |           |      |
|                 | Arthropoda                     |                                  |  |                                   | Malacostraca                      | Decapoda                   | Palaemonidae      | <i>Palaemon paucidens</i>                   | Common prawn                      | 350                         | 0.11              | Imago                     | -                         | -                              | 4.8             | N.D.(2.2)       | 4.8               | -         |      |
|                 | Mollusca                       |                                  |  |                                   | Gastropoda                        | Architaenioglossa          | Viviparidae       | <i>Cipangopaludina japonica</i>             | Japanese mysterysnail             | 26                          | 0.044             | Juvenile,Imago            | -                         | Molluscos part                 | 3.9             | N.D.(2.9)       | 3.9               | -         |      |
|                 | Vertebrata                     |                                  |  |                                   | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Tribolodon hakonensis</i>                | Japanese dace                     | 8                           | 0.0076            | Immature fish             | -                         | -                              | N.D.            | N.D.(8.8)       | N.D.(2.8)         | -         |      |
|                 | Vertebrata                     |                                  |  |                                   | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Opsariichthys platypus</i>               | Pale chub                         | 3                           | 0.013             | Immature fish             | -                         | -                              | 7.1             | N.D.(4.1)       | 7.1               | -         |      |
|                 | Vertebrata                     |                                  |  |                                   | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Pseudogobio esocinus esocinus</i>        | Pseudogobio esocinus esocinus     | 24                          | 0.15              | Immature fish             | -                         | -                              | 2.6             | N.D.(0.42)      | 2.6               | -         |      |
|                 | Vertebrata                     |                                  |  |                                   | Osteichthyes                      | Cypriniformes              | Cyprinidae        | <i>Carassius auratus</i>                    | Carassius auratus langsdorfii     | 7                           | 2.1               | Mature fish               | Obscure digesta           | Viscera removed                | 29              | N.D.(1.3)       | 29                | 0.41      |      |
|                 |                                |                                  |  |                                   | 2020/8/4                          | Vertebrata                 | Osteichthyes      | Cypriniformes                               | Cyprinidae                        | <i>Hemibarbus barbus</i>    | Hemibarbus barbus | 5                         | 4.7                       | Mature fish                    | Obscure digesta | Viscera removed | 23.5              | 1.5       | 22   |
|                 | 2020/8/3                       |                                  |  |                                   | Vertebrata                        | Osteichthyes               | Cypriniformes     | Cobitidae                                   | <i>Misgurnus anguillicaudatus</i> | Oriental weatherfish        | 16                | 0.022                     | Immature fish             | -                              | -               | N.D.            | N.D.(2.5)         | N.D.(2.1) | -    |
|                 | 2020/8/4                       |                                  |  |                                   | Vertebrata                        | Osteichthyes               | Perciformes       | Centrarchidae                               | <i>Micropterus dolomieu</i>       | Small mouth bass            | 16                | 7.9                       | Immature fish,Mature fish | Fish,Common prawn              | Viscera removed | 37.7            | 1.7               | 36        | 0.25 |
|                 | 2020/8/3                       |                                  |  |                                   | Vertebrata                        | Osteichthyes               | Perciformes       | Gobiidae                                    | <i>Gymnogobius urotaenia</i>      | Goby                        | 37                | 0.045                     | Immature fish             | -                              | -               | 5.3             | N.D.(3.1)         | 5.3       | -    |
| Vertebrata      |                                | Osteichthyes                     | Perciformes                            | Gobiidae                          | <i>Rhinogobius kurodai</i>        | Rhinogobius kurodai        | 31                | 0.023                                       | Immature fish,Mature fish         | -                           | -                 | 2.2                       | N.D.(2.0)                 | 2.2                            | -               |                 |                   |           |      |
|                 | 2020/8/4                       | Vertebrata                       | Osteichthyes                           | Siluriformes                      | Siluridae                         | <i>Silurus asotus</i>      | Amur catfish      | 1   | 0.90                              | Mature fish                 | Obscure digesta   | Viscera removed           | 26.2                      | 1.2                            | 25              | -               |                   |           |      |
|                 | 2020/8/3                       | Vertebrata                       | Amphibia                               | Anura                             | -                                 | -                          | -                 | Frog  | 7                                 | 0.0039                      | Larva(Tadpole)    | -                         | -                         | 6.9                            | N.D.(8.5)       | 6.9             | -                 |           |      |
| Vertebrata      |                                | Amphibia                         | Anura                                  | Glandirana                        | <i>Glandirana rugosa</i>          | Wrinkled frog              | 5                 | 0.035                                       | Imago                             | -                           | -                 | N.D.                      | N.D.(1.7)                 | N.D.(1.6)                      | -               |                 |                   |           |      |
| Vertebrata      |                                | Amphibia                         | Anura                                  | Pelophylax                        | <i>Pelophylax porosus porosus</i> | Tokyo daruma pond frog     |                   |   |                                   |                             |                   |                           |                           |                                |                 |                 |                   |           |      |
| Vertebrata      |                                | Amphibia                         | Caudata                                | Salamandridae                     | <i>Cynops pyrrhogaster</i>        | Cynops pyrrhogaster        | 17                | 0.073                                       | Imago                             | -                           | -                 | 1.8                       | N.D.(1.5)                 | 1.8                            | -               |                 |                   |           |      |

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

\*6: 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.

\*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*8: Activity concentrations include counting errors, but the details are omitted here.

| Location                           |   | Sampling point                                 | Sampling date     | Division       | Class                           | Order              | Family                       | Scientific name                 | English name                   | Population      | Sample weight (kg-wet) | Note                       |                  |                  | Radioactive cesium (Bq/kg-wet) |             |            | Sr-90 (Bq/kg-wet) |       |
|------------------------------------|---|--|-------------------|----------------|---------------------------------|--------------------|------------------------------|---------------------------------|--------------------------------|-----------------|------------------------|----------------------------|------------------|------------------|--------------------------------|-------------|------------|-------------------|-------|
|                                    |   |  |                   |                |                                 |                    |                              |                                 |                                |                 |                        | Growth stage               | Stomach contents | Measurement site | Total                          | Cs-134      | Cs-137     |                   |       |
| Off the mouth of the Abukuma River | Surrounding water area off the mouth of the Abukuma River | Sea area in front of the Abukuma River Estuary | 2020/8/7          | Vertebrata     | Osteichthyes                    | Perciformes        | Carangidae                   | <i>Seriola quinqueradiata</i>   | Japanese amberjack             | 2               | 2.1                    | Immature fish              | Obscure digesta  | Viscera removed  | 0.50                           | N.D.(0.51)  | 0.50       | N.D.(0.017)       |       |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Perciformes        | Scombridae                   | <i>Scomber japonicus</i>        | Chub mackerel                  | 7               | 2.8                    | Mature fish                | Empty stomach    | Viscera removed  | N.D.                           | N.D.(0.36)  | N.D.(0.32) | N.D.(0.016)       |       |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Perciformes        | Sciaenidae                   | <i>Pennahia argentata</i>       | White croaker                  | 3               | 0.53                   | Mature fish                | Empty stomach    | Viscera removed  | 0.49                           | N.D.(0.30)  | 0.49       | -                 |       |
| Off Soma City                      | L-1<br>L-2<br>L-3   | Matsukawaura Lagoon                            | 2020/8/7          | Algae/plant    | -                               | -                  | -                            | -                               | Plankton (Planktonic algae)    | -               | 0.013                  | -                          | -                | -                | 3.0                            | N.D.(3.0)   | 3.0        | -                 |       |
|                                    |   |  | 2020/8/25         | Algae/plant    | Monocotyledoneae                | Najadales          | Zosteraceae                  | <i>Zostera marina</i>           | Eel grass                      | -               | 0.27                   | -                          | -                | -                | -                              | 0.59        | N.D.(0.29) | 0.59              | -     |
|                                    |   |  | 2020/8/5          | Annelida       | Polychaeta                      | Eunicida           | Lumbrineridae                | <i>Lumbrineridae</i>            | Lumbrineridae                  | 251             | 0.14                   | Juvenile, Imago            | -                | -                | -                              | 1.8         | N.D.(0.41) | 1.8               | -     |
|                                    |   |  |                   | Annelida       | Polychaeta                      | Phyllodocida       | Nereididae                   | <i>Nereididae</i>               | Nereididae                     |                 |                        |                            |                  |                  |                                |             |            |                   |       |
|                                    |   |  |                   | Annelida       | Polychaeta                      | Spionida           | Cirratulidae                 | <i>Cirratulida</i>              | Polychaeta                     |                 |                        |                            |                  |                  |                                |             |            |                   |       |
|                                    |   |  | 2020/8/12         | Arthropoda     | Malacostraca                    | Decapoda           | Varunidae                    | <i>Hemigrapsus sp.</i>          | Hemigrapsus                    | 25              | 0.053                  | Juvenile, Imago            | -                | -                | -                              | 2.4         | N.D.(0.86) | 2.4               | -     |
|                                    |   |  |                   | Arthropoda     | Malacostraca                    | Decapoda           | Portunidae                   | <i>Charybdis japonica</i>       | Shore swimming crab            | 19              | 0.99                   | Juvenile, Imago            | -                | -                | -                              | 0.92        | N.D.(0.45) | 0.92              | 0.055 |
|                                    |   |  | 2020/8/5          | Mollusca       | Bivalvia                        | Veneroida          | Veneridae                    | <i>Ruditapes philippinarum</i>  | Japanese littleneck            | 85              | 0.15                   | Juvenile, Imago            | -                | Molluscos part   | -                              | 4.2         | N.D.(0.40) | 4.2               | -     |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Pleuronectiformes  | Paralichthyidae              | <i>Paralichthys olivaceus</i>   | Bastard halibut                | 1               | 0.014                  | Immature fish              | -                | -                | -                              | N.D.        | N.D.(4.3)  | N.D.(3.6)         | -     |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Perciformes        | Lateolabridae                | <i>Lateolabrax japonicus</i>    | Japanese sea bass              | 3               | 0.024                  | Immature fish              | -                | -                | -                              | N.D.        | N.D.(1.8)  | N.D.(1.5)         | -     |
|                                    |   |  | 2020/8/7          | Vertebrata     | Osteichthyes                    | Perciformes        | Sparidae                     | <i>Acanthopagrus schlegelii</i> | Japanese black porgy           | 11              | 0.10                   | Immature fish              | -                | -                | -                              | 1.0         | N.D.(0.49) | 1.0               | -     |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Perciformes        | Gobiidae                     | <i>Tridentiger obscurus</i>     | Dusky tripletooth goby         | 12              | 0.023                  | Immature fish              | -                | -                | -                              | N.D.        | N.D.(2.2)  | N.D.(1.7)         | -     |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Perciformes        | Gobiidae                     | <i>Favonigobius gymnauchen</i>  | <u>Favonigobius gymnauchen</u> |                 |                        |                            |                  |                  |                                |             |            |                   |       |
|                                    |   |  | Vertebrata        | Osteichthyes   | Perciformes                     | Gobiidae           | <i>Gymnogobius breunigii</i> | Chestnut goby                   |                                |                 |                        |                            |                  |                  |                                |             |            |                   |       |
| 2020/8/5                           | Vertebrata  | Osteichthyes                                   | Perciformes       | Gobiidae       | <i>Acanthogobius flavimanus</i> | Yellowfin Goby     | 12                           | 0.12                            | Immature fish, Mature fish     | -               | -                      | -                          | 0.76             | N.D.(0.49)       | 0.76                           | -           |            |                   |       |
| 2020/8/7                           | Vertebrata  | Osteichthyes                                   | Perciformes       | Mugilidae      | <i>Mugil cephalus cephalus</i>  | Flathead mullet    | 159                          | 0.85                            | Immature fish                  | -               | -                      | -                          | 3.0              | N.D.(0.93)       | 3.0                            | N.D.(0.019) |            |                   |       |
| 2020/8/7                           | Vertebrata  | Osteichthyes                                   | Tetraodontiformes | Tetraodontidae | <i>Takifugu niphobles</i>       | Takifugu niphobles | 1                            | 0.10                            | Mature fish                    | Obscure digesta | Viscera removed        | -                          | 1.2              | N.D.(0.76)       | 1.2                            | -           |            |                   |       |
| Off Iwaki City                     | M-1<br>M-2<br>M-3   | Offshore of Hisanohama                         | 2020/8/22         | Vertebrata     | Osteichthyes                    | Pleuronectiformes  | Pleuronectidae               | <i>Kareius bicoloratus</i>      | Stone flounder                 | 1               | 0.60                   | Immature fish              | Shellfish        | Viscera removed  | 0.83                           | N.D.(0.49)  | 0.83       | -                 |       |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Pleuronectiformes  | Paralichthyidae              | <i>Paralichthys olivaceus</i>   | Bastard halibut                | 4               | 2.9                    | Immature fish, Mature fish | Empty stomach    | Viscera removed  | 0.43                           | N.D.(0.27)  | 0.43       | N.D.(0.018)       |       |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Perciformes        | Sparidae                     | <i>Eynniss japonica</i>         | Crimson sea-bream              | 7               | 1.7                    | Immature fish              | Shrimp, Crab     | Viscera removed  | 0.54                           | N.D.(0.49)  | 0.54       | -                 |       |
|                                    |   |  |                   | Vertebrata     | Chondrichthyes                  | Squatiformes       | Squatinae                    | <i>Squatina japonica</i>        | Japanese angelshark            | 1               | 4.3                    | Immature fish              | Squid            | Viscera removed  | 3.3                            | N.D.(1.4)   | 3.3        | N.D.(0.021)       |       |
|                                    |   |  |                   | Vertebrata     | Chondrichthyes                  | Carcharhiniformes  | Triakidae                    | <i>Mustelus manazo</i>          | Starspotted smooth-hound       | 2               | 2.0                    | Immature fish              | Crab             | Viscera removed  | 0.43                           | N.D.(0.32)  | 0.43       | -                 |       |
|                                    | M-4   | Hisanohama Coastal areas                       | 2020/8/22         | Algae/plant    | Phaeophyceae                    | Laminariales       | Laminariaceae                | <i>Eisenia bicyclis</i>         | Eisenia bicyclis               | -               | 0.33                   | -                          | -                | -                | 0.27                           | N.D.(0.29)  | 0.27       | -                 |       |
|                                    |   |  |                   | Algae/plant    | Phaeophyceae                    | Laminariales       | Laminariaceae                | <i>Saccharina japonica</i>      | Japanese tangle                | -               | 0.28                   | -                          | -                | -                | 0.43                           | N.D.(0.35)  | 0.43       | -                 |       |
|                                    |   |  |                   | Mollusca       | Gastropoda                      | Archaeogastropoda  | Haliotidae                   | <i>Haliotis sp.</i>             | Abalone                        | 3               | 0.26                   | Imago                      | -                | Molluscos part   | -                              | N.D.        | N.D.(0.36) | N.D.(0.31)        | -     |
|                                    |   |  |                   | Echinodermata  | Echinoidea                      | Echinoidea         | Strongylocentrotidae         | <i>Strongylocentrotus nudus</i> | Northern sea urchin            | 6               | 0.68                   | Imago                      | -                | -                | -                              | N.D.        | N.D.(0.26) | N.D.(0.24)        | -     |
|                                    |   |  |                   | Vertebrata     | Osteichthyes                    | Scorpaeniformes    | Scorpaenidae                 | <i>Sebastes cheni</i>           | Rockfish                       | 3               | 0.029                  | Immature fish              | -                | -                | -                              | N.D.        | N.D.(1.8)  | N.D.(1.6)         | -     |
| 2020/8/22                          | Vertebrata  | Osteichthyes                                   | Tetraodontiformes | Tetraodontidae | <i>Takifugu poecilonotus</i>    | Pufferfish         | 38                           | 0.32                            | Immature fish                  | -               | -                      | -                          | 0.47             | N.D.(0.34)       | 0.47                           | -           |            |                   |       |

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