Jul 31, 2011

# Nuclide Analysis Results of Sub-drain Water in the Surroundings of "Centralized Radiation Waste Treatment Facility"

I-131(Bq/cm$^3$)

| Sampling point | After transfer | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7/10 | 7/11 | 7/12 | 7/13 | 7/14 | 7/15 | 7/16 | 7/17 | 7/18 | 7/19 | 7/20 | 7/21 | 7/22 | 7/23 | 7/24 | 7/25 | 7/26 | 7/27 | 7/28 | 7/29 | 7/30 |
| ① | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ② | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ③ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ④ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ⑥ | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - |
| ⑦ | ND | ND | ND | ND | ND | 0.017 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ⑧ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Cs-134(Bq/cm$^3$)

| Sampling point | After transfer | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7/10 | 7/11 | 7/12 | 7/13 | 7/14 | 7/15 | 7/16 | 7/17 | 7/18 | 7/19 | 7/20 | 7/21 | 7/22 | 7/23 | 7/24 | 7/25 | 7/26 | 7/27 | 7/28 | 7/29 | 7/30 |
| ① | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.17 | 0.12 | 0.13 | ND | ND | ND | 0.067 | 0.027 | 0.096 | 0.095 |
| ② | ND | ND | ND | 0.049 | 0.029 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ③ | ND | ND | ND | ND | ND | ND | ND | 0.052 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ④ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | ND | 0.08 | 0.043 | 0.081 | ND | 0.06 | 0.055 | 0.045 | 0.044 | 0.027 | ND | ND | ND | ND | ND | ND | 0.036 | 0.046 | ND | ND | ND |
| ⑥ | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - |
| ⑦ | 0.27 | 0.53 | 0.31 | 0.48 | 0.3 | 0.25 | 0.28 | 0.24 | 0.33 | 0.27 | 0.24 | 0.31 | 0.43 | 0.48 | 0.4 | 0.27 | 0.21 | 0.25 | 0.37 | 0.31 | 0.22 |
| ⑧ | ND | 0.028 | ND | ND | 0.041 | ND | 0.048 | 0.028 | ND | ND | 0.038 | 0.16 | 0.068 | ND | ND | ND | ND | ND | 0.044 | ND | ND |

Cs-137(Bq/cm$^3$)

| Sampling point | After transfer | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7/10 | 7/11 | 7/12 | 7/13 | 7/14 | 7/15 | 7/16 | 7/17 | 7/18 | 7/19 | 7/20 | 7/21 | 7/22 | 7/23 | 7/24 | 7/25 | 7/26 | 7/27 | 7/28 | 7/29 | 7/30 |
| ① | ND | ND | ND | ND | ND | 0.035 | ND | ND | ND | ND | ND | 0.17 | 0.13 | 0.13 | 0.046 | ND | ND | 0.081 | ND | 0.099 | 0.094 |
| ② | ND | ND | ND | 0.037 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ③ | ND | ND | ND | ND | ND | ND | ND | 0.054 | ND | ND | ND | 0.04 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ④ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | ND | 0.12 | 0.039 | 0.083 | 0.049 | 0.047 | 0.042 | 0.034 | 0.039 | ND | ND | ND | 0.029 | ND | ND | ND | 0.038 | ND | 0.037 | ND | ND |
| ⑥ | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - |
| ⑦ | 0.32 | 0.58 | 0.34 | 0.52 | 0.32 | 0.31 | 0.31 | 0.31 | 0.37 | 0.3 | 0.24 | 0.33 | 0.48 | 0.5 | 0.43 | 0.34 | 0.26 | 0.31 | 0.39 | 0.34 | 0.26 |
| ⑧ | ND | 0.051 | ND | ND | 0.035 | ND | 0.037 | ND | ND | 0.063 | 0.036 | 0.16 | 0.087 | ND | ND | ND | ND | ND | 0.039 | ND | 0.029 |

* Hyphen "-" indicates that neither sampling nor measurements were implemented.
* ⑥ was conducted as upstream of the groundwater once a week from April 29 since it was unable to sample
* In this analysis, "ND" means that the results fall bellow the measurable threshold.
  (I-131: approx. 0.02Bq/cm3, Cs-134: approx. 0.03Bq/cm3, and Cs-137: approx. 0.04Bq/cm3)
  (as of July 27).
  Please note that these nuclides are sometimes detected even when they are below the threshold, contingent on the detector or samples.

* We have been sampling at ⑦ since May 26, for it is located downstream of the groundwater.
* We have been sampling at ⑧ since May 30.

<Place of sampling>
①Southeast part of Unit 4 Turbine Building
②Northeast part of Process Main Building
③Southeast part of Process Main Building
④Southwest part of Process Main Building
⑤South part of Miscellaneous Solid Waste Volume Reduction Treatment Building
⑥Southwest part of On-site Bunker Building
⑦West part of Incineration Workshop Building
⑧North part of Miscellaneous Solid Waste Volume Reduction Treatment Building