

Waste within the Management Areas in Fukushima Prefecture has been disposed of based on the Plan on Waste within the Management Areas, which was revised in December 2013.

Such waste, which includes tsunami rubble, debris of damaged houses, and waste from houses after cleaning-up, has been transported sequentially to Temporary Storage Sites. As of the end of November 2021, a total of approx. 3.17 million tons had already been transported. Transported waste is recycled as much as possible.

It was decided to incinerate inflammable waste to reduce volume at Temporary Incineration Facilities constructed at 11 locations in nine municipalities. As of the end of November 2021, four such facilities were in operation and waste is being steadily incinerated.

Included in this reference material on February 28, 2018 Updated on March 31, 2022



Prepared based on the website, "Information on Disposal of Radioactive Waste," of the Ministry of the Environment

Designated waste includes ash left after incinerating waste contaminated with radioactive materials, sludge generated through sewage treatment, soil generated at water treatment plants to supply tap water (p.40 of Vol. 2, "Waterworks System"), agricultural and forestry waste such as rice straw and pasture grass, etc.

As of the end of September 2021, there was a total of over 380,000 tons of designated waste in 10 prefectures, including Tokyo Metropolis. Such waste is temporarily being stored at incineration facilities, water treatment plants, sewage treatment facilities, farmland, etc., where it was generated, until the national government establishes a proper disposal system.

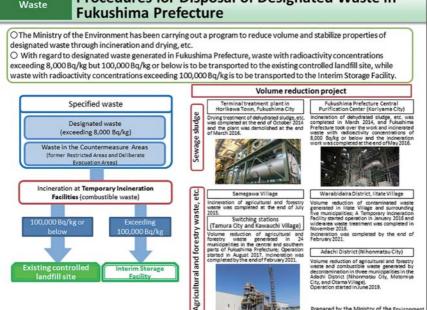
The waste is to be covered with impermeable sheets, etc. to prevent infiltration of rainwater and measures to prevent scattering and runoff of the waste are being taken in line with the guidelines and the Act on Special Measures Concerning the Handling of Environment Pollution by Radioactive Materials. Officials of the Ministry of the Environment visit various locations and check the status of temporary storage periodically to ensure safe and proper storage of designated waste.

Included in this reference material on January 18, 2016 Updated on March 31, 2022

Prepared by the Ministry of the Environment

#### Waste

# Procedures for Disposal of Designated Waste in



In Fukushima Prefecture, designated waste with radioactivity concentration exceeding 8,000 Bq/kg but 100,000 Bq/kg or below is to be transported to the existing controlled landfill site, while designated waste with radioactivity concentration exceeding 100,000 Bg/kg is to be transported to the Interim Storage Facility.

Additionally, designated waste is incinerated, dried or otherwise handled to reduce volume and stabilize their properties in Fukushima Prefecture.

Included in this reference material on January 18, 2016 Updated on March 31, 2022

### Landfill Disposal of Specified Waste at Controlled Landfill Site Waste In the specified waste landfill project, transport of specified waste was commenced on November 17, 2017. Up until now, a total of 209,112 bags of specified waste was carried in (as of the end of December 2021). O Results of the monitoring conducted before and after the commencement of transport show no abnormal increases in air dose rates. ent asked Fukushima Prefecture, Tomiok consent to accept the construction of the ODec. 14, 2013: 11 and Naraha Town for conse the countermeasure area (not exceeding 100,000 Bq/kg): Approx ODec. 4, 2015: Ft ima Prefecture, Tomioka Town, and Naraha Town expressed ste in Fukushima Prefecture (not exceeding 100,000 8q/kg): OApr. 18, 2016: The Controlled Landfill Site (former Fukushima Eco Tech Clean Center) page from 8 Futaba-gun municipalities: Approx. 10 years Waste with radioactivity concentration exceeding 100,000 Bq/kg is transported to the ISF. OJun. 27, 2016: The national government concluded a safety agre Fukushima Prefecture and the two municipalities Landfill site OAug. 24, 2018: Reprun Fukushima, a specified waste landfill information center, was OMar. 20, 2019: Cement solidification facility commenced operation (i) Specified Waste Landfill Facility (ii) Reprun Fukushima, a specified waste landfill information center (iii) Cement solidification facility As of March 10, 2020 Contaminated Was Restricted Areas Temporary Incineration Facilities Prepared by the Ministry of the Enviro

Waste with radioactivity concentrations not exceeding 100,000 Bq/kg generated in Fukushima Prefecture is to be disposed of promptly at the existing controlled landfill site.

In order to implement this project, the national government first asked Fukushima Prefecture for consent to accept the construction of an Interim Storage Facility in December 2013, and then provided explanations to Tomioka Town and Naraha Town, and their assemblies and residents.

In December 2015, consent was obtained from Fukushima Prefecture, Tomioka Town and Naraha Town for the implementation of this project. The national government nationalized the existing controlled landfill site in April 2016 and concluded a safety agreement with Fukushima Prefecture and the two municipalities in June 2016. Preparatory work was conducted thereafter and the transport of waste to the facility was commenced in November 2017. Additionally, the Ministry of the Environment (MOE) has endeavored to provide related information positively through the Reprun Fukushima, a specified waste landfill information center, which commenced operation in August 2018.

In order to steadily facilitate disposal of waste contaminated with radioactive materials, utmost efforts will be continued to properly carry out this project with safety as the top priority and to build a stronger relationship of trust with local residents.

Included in this reference material on January 18, 2016 Updated on March 31, 2022

#### Waste

## Status of the Five Prefectures concerning Designated Waste

Waste				
Miyagi Prefecture	Tochigi Prefecture	Chiba Prefecture	Ibaraki Prefecture	Gunma Prefecture
[Municipal mayor's conference]  Ist to 4th Oct. 2022 to Nov. 2013  Str. Jan. 20, 2014  ** Three candidate sites for detailed survey were presented if Fulsyammadake, Kurihara City, 2015  ** Three candidate sites for detailed survey were presented if Fulsyammadake, Kurihara City, 2015  ** Three dend of the Str. 2015  ** The prefecture governor announced the 3th Properties of the Str. 2015  ** The prefecture governor announced the 3th Properties of 1th Properti	[Municipal mayors conference] 18 to Del Apr. 2018 edu; 2018 4th: Dec. 18, 2018 4th: Dec. 18, 2018 4th: Dec. 18, 2018 4th: Dec. 18, 2018 5 Selection method was determined. Jul. 20, 2014 5 Selection method was determined. Jul. 20, 2014 6 Selection method was determined. Jul. 20, 2014 6 Selection method was determined. Jul. 20, 2014 6 Selection method was determined. Shi and 6 Selection for sel	IMunicipal mayors' conference) 1st to Brits' Apr. 2013 to Jan. 2014  3 tell early 2013 to Jan. 2014  3 tell early 2014  3 tell early 2014  3 tell early 2014  3 tell early 2015  3 this Apr. 2015  4 this Apr. 2015  4 this Apr. 2015  4 this Apr. 2015  5 this Apr. 2015  6 this Apr. 201	[Municipal mayors conference] 1st: Apr. 12, 2013 1st: Apr. 12, 2013 1st: Apr. 12, 2013 1st: Apr. 2015 1st: Apr. 2015 1st: Apr. 2015 [Meeting of mayors of municipalities where waste is temporarily stored] 1st: Apr. 6, 2015 2nd: Feb. 4, 2016 2nd: Feb. 4, 2016 2nd: Feb. 4, 2016 2nd: Feb. 4, 2016 All 1st: Apr. 6, 2015 2nd: Feb. 4, 2016 All 1st: Apr. 6, 2015 2nd: Feb. 4, 2016 All 1st: Apr. 6, 2015	IMunicipal mayors' conference! 1st Apr. 19, 2013 2nd: bil. 1, 2013 3rd: Dec. 25, 2016 → The policyto contino promote staged dispos was determined.

Prefectures other than Fukushima Prefecture which are in urgent need to secure Temporary Storage Sites for designated waste (Miyagi Prefecture, Tochigi Prefecture, Chiba Prefecture, Ibaraki Prefecture and Gunma Prefecture) are taking measures in accordance with the circumstances of respective prefectures. They ascertain the current status through the measurement of radioactivity concentrations, based on discussions at municipal mayors' conferences.

Regarding candidate sites for detailed surveys, Miyagi, Tochigi and Chiba Prefectures followed selection methods determined through discussions at expert meetings and municipal mayors' conferences, and presented selected candidate sites in January 2014, July 2014 and April 2015, respectively. However, detailed surveys have not been conducted due to a failure to obtain understanding of relevant regions.

In the meantime, Miyagi Prefecture determined its policy that each municipality is to make efforts to dispose of contaminated waste with radioactivity concentrations not exceeding 8,000 Bq/kg under the initiative of the prefectural government, and the Ministry of the Environment is offering financial and technical support. As part of such efforts, test incineration was commenced sequentially in four districts (Ishinomaki, Kurokawa, Sennan and Osaki) from March 2018 and was completed by July 2019. As of the end of December 2021, full-fledged incineration was completed in the Ishinomaki district and was underway in the Sennan and Osaki districts. In the Kurokawa district, test incineration was completed, and thereafter, treatment of other waste was completed through plowing-in and composting in October 2021. In the Sennan district, full-fledged incineration was suspended to prioritize disposal of waste generated by the 2019 East Japan Typhoon but was resumed in May 2021.

In November 2018, the national government presented a provisional policy for volume reduction and centralized collection of designated waste by the unit of municipality, targeting Tochigi Prefecture and municipalities storing designated waste, with the aim of easing burdens of farm households that have been storing designated waste by themselves, while maintaining the basic policy to ultimately develop long-term management facilities. Agreement was reached on the provisional policy. Additionally, it was confirmed that the national government will compile its approach for the selection of provisional storage sites and make efforts to select relevant sites as promptly as possible in collaboration with Tochigi Prefecture and municipalities. In June 2021, the Ministry of the Environment asked Nasushiobara City to cooperate in provisional centralized collection of designated waste having been stored by individual farm households. In October 2021, the work to transport designated waste from farm households to the centralized collection site was commenced in the city.

As for Chiba Prefecture, it is also making efforts to obtain understanding of local residents for the implementation of a detailed survey concerning long-term management facilities.

Ibaraki and Gunma Prefectures determined the policies to continue on-site storage and promote staged disposal respectively in February 2016 and December 2016. Based on the determined policies, both prefectures will repair or reinforce storage sites as necessary and will dispose of designated waste whose radioactivity concentrations have reduced to 8,000 Bq/kg or lower at existing disposal facilities in a staged manner.