



2019
ATOMEXPO XI

ENVIRONMENTAL MONITORING OF AUBE DISPOSAL FACILITY

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MONITORING OF AUBE DISPOSAL FACILITY

- **CSA is:**
 - Surface disposal for low- and intermediate-level short-lived waste
 - Managed by Andra
 - Nuclear base facility (according to French Law)
 - In operation since 1992
- **Throughout the facility operation, Andra carries out environmental monitoring of the facility and its surroundings, in order to:**
 - Verify compliance with regulatory requirements
 - Assess the impact of the activities of the CSA on its environment
 - Detect all abnormal situations or developments (operational safety)



ENVIRONMENTAL MONITORING PROGRAMME – ON-SITE AND OFF-SITE

- **Radiological monitoring**
 - **Nearly 12 000 analyses of surface water, groundwater, air, sediments, food chain, vegetation, gaseous / liquid effluents**
- **Non-radiological monitoring**
 - **Chemical and physical-chemical analyses of water, noise and vibration, etc.**
- **Monitoring the ecology of the surrounding environment**



Statutory plan approved by the French nuclear safety authority

Both on-site and off-site environments are surveyed

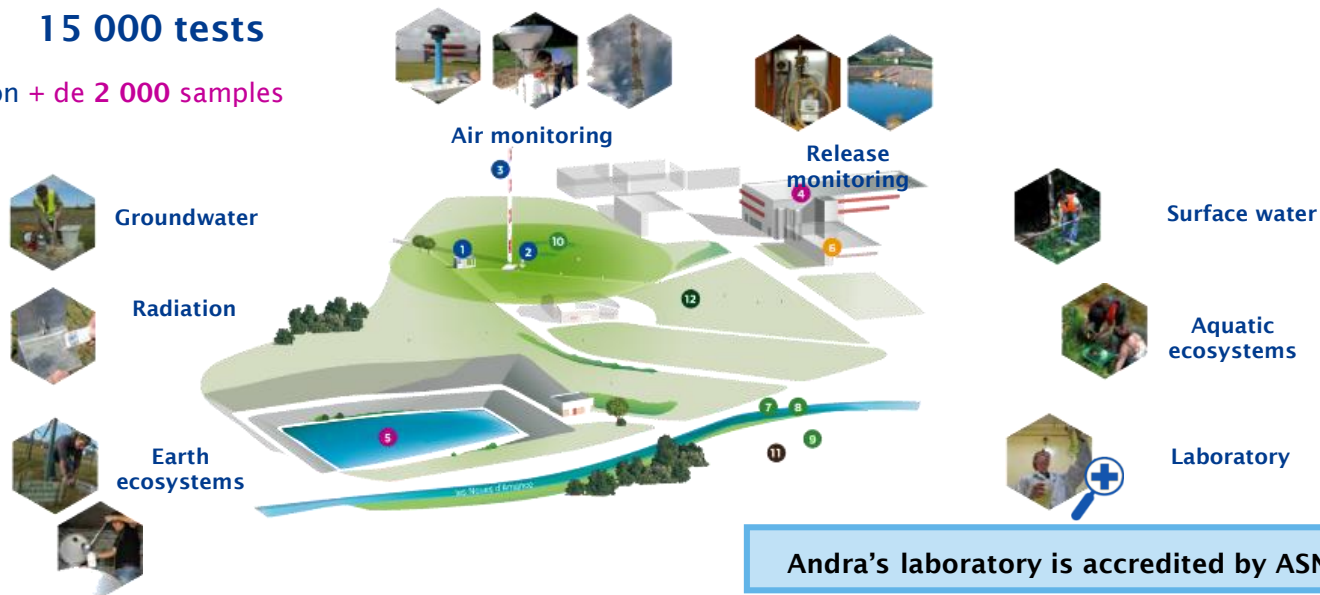


ENVIRONMENTAL MEDIA SUBJECT TO MONITORING



15 000 tests

on + de 2 000 samples



DISTRIBUTION OF MONITORING RESULTS

- **The French nuclear safety authority**
 - Monthly records
 - Annual report
- **Public**
 - ANDRA website: www.andra.fr
 - Annual report (in accordance with Article 21 of the TSN Law)
 - Annual meeting with the Local Information Committee
 - Open days and group visits
 - National environmental measurements network

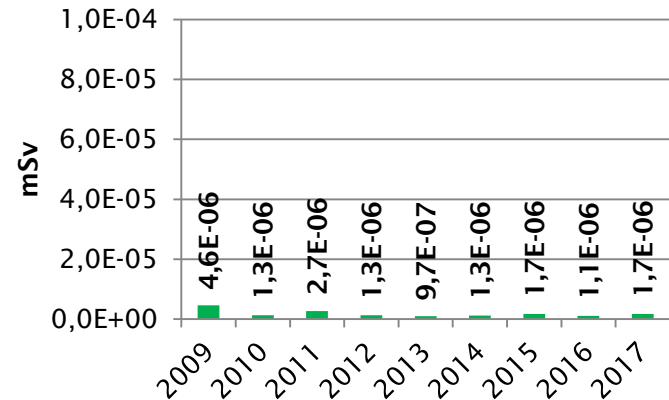


réseau national

Réseau national de mesures de la radioactivité de l'environnement

RADIOLOGICAL IMPACT OF THE CSA

RADIOLOGICAL IMPACT ON THE REFERENCE GROUP IN 2017 is 0.0017 microsieverts / year, i.e. less than one 500 000th of the authorised dose for the general public (1 millisievert / year)



***Reference group: The adult population living close to the Noues d'Amance along the D24 road – Assumed to be fully independent.**

INDEPENDENT MONITORING - COUNTERCHECKING

- **Independently from Andra, the Local Information Commission can also conduct its own environmental surveys using independent accredited laboratories**
 - **Vine, milk and other bio-indicators were checked in the vicinity of the CSA and no impact was observed**
 - **Andra is the first nuclear facility operator in France to allow the Local Information Commission to conduct its own environmental surveys ON-SITE: beehives were installed not far from disposal vaults to check bees and their produce for radioactivity traces**
- **Nuclear Safety Authority (ASN) can also conduct alternative independent environmental surveys to countercheck Andra's results.**





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АТОМЕХРО XI

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THANK YOU FOR YOUR ATTENTION !

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