

Additional File 3 - Comprehensive lists of environmental outcomes

Table 1: Measured weather data [1].

Mean wind direction (every hour)	Daily minimum temperature at 10 cm height and timing	Daily maximum atmospheric pressure and timing
Mean wind velocity (every hour)	Sunshine duration	Daily minimum atmospheric pressure and timing
Daily mean wind velocity	Percentage of sunshine duration	Minimum sight and timing
Highest daily mean wind velocity and timing	Global duration	Maximum sight and timing
Highest gust and timing	Rain duration	Daily mean cloud cover
Daily mean temperature	The daily sum of rain amount	Daily mean humidity
Daily minimum temperature and timing	Daily maximum rain amount and timing	Daily maximum humidity and timing
Daily maximum temperature and timing	Daily mean atmospheric pressure	Daily minimum humidity and timing

Table 2: Measured air quality metrics [2].

Ammonia	Naphthalene	Particulate matter 10	Toluene
Benzene	Nitric oxide	Particulate matter 2.5	Ultra-fine particles
Carbon monoxide	Nitrogen dioxide	Soot	Xylene
Hydrogen sulfide	Ozone	Sulfur dioxide	

Table 3: Measured grass, tree, and plant pollen [3,4].

Poaceae	Hornbeam	Sea-buckthorn	Apiaceae
Cyperaceae	Beech	Holly	Brassicaceae
Hazel	Oak	Elder	Rumex
Alder	Horse-chestnut	Privet	Plantago
Cypress	Walnut	Juncaceae	Urtica
Iep	Maple	Ericaceae	Amaranthaceae
Poplar	Platanus	Rosaceae	Artemisia
Ash	Pine tree	Ragged-Robin	Hops
Willow	Sweet-chestnut	Asteraceae	
Birch	Linden	Buttercup	

References

[1] KNMI. Dagwaarden van weerstations. Dagwaarden van Weerstations 2022. <https://www.daggegevens.knmi.nl/klimatologie/daggegevens> (accessed March 7, 2024).

[2] RIVM; Luchtmeetnet dataset 2023. <https://data.rivm.nl/data/luchtmeetnet/> (accessed January 18, 2024).

[3] Elkerliek. Pollentellingen n.d. <https://www.elkerliek.nl/elkerliek/hooikoorts/pollentellingen> (accessed January 9, 2024).

[4] LUMC. Pollen en hooikoorts n.d. <https://www.lumc.nl/patientenzorg/specialistische-centra/hart-long-centrum/voor-patienten/pollen-en-hooikoorts/> (accessed January 9, 2024).