

Reference year 2024

ENVIRONMENTAL BULLETIN OF MIKONOS AIRPORT (JMK)

ΑΕΡΟΛΙΜΕΝΑΣ ΜΥΚΟΝΟΥ

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1. INTRODUCTION

1.1 Location

The airport of Mikonos, with an IATA code JMK, has been operating since 1971 and is located at 1.2 km to the south-east from the Town of Mikonos and at a very short distance of approximately 1.5km from the coastline of the island.

1.2 Administration

The airport administratively belongs to the Municipal Community of Mikonos, of the Municipality of Mykonos of the homonym Regional Unit that belongs to the Region of South Aegean.

1.3 Environmental licensing

Approved Environmental Terms

<i>E.T. Decision Reference number</i>	32650/04.11.1994
	103324/18.04.2016
	175511/15.10.2014
	39773/26.09.2017
<i>E.T. Amendment Decision Reference Number</i>	2976/02.02.2018
	24442/1574/14.03.2022
	38064/2593/06.04.2023

1.4 Airport Basic Data

<i>Airport name IATA / ICAO</i>	JMK / LGMK
<i>Airport location – Airport Reference Point (ARP)</i>	Latitude: 37° 26' 14" N Longitude: 25° 20' 50" E
<i>Altitude</i>	123.45m
<i>Number of runways</i>	1
<i>Operation hours (summer)</i>	00:00 – 23:59
<i>Operation hours (winter)</i>	Monday / Tuesday / Thursday / Saturday / Sunday 9:00 – 19:00 Wednesday / Friday 07:30 - 19:00



<i>Runways</i>	<i>Length/Width</i>	<i>Code</i>			
Runway	1.902m x 30m	16/34			
Full length of parallel taxiway	N/A				
Number of taxiways	2				
Apron capacity	A	B	C	D	E
	-	-	5	-	-



<i>Terminal</i>	
Total area (m ²)	14.304



<i>Other buildings and service/storage areas</i>	
RFF Station (m ²)	1.144



<i>Parking Areas</i>	
Car parking spaces	73
Bus parking spaces	33
Taxi parking spaces	15



<i>Employees</i>	<i>High season (31.08.2024)</i>	<i>Low season (30.11.2024)</i>
Fraport Greece (FG) employees	43	33
Employees of other companies	526	272

1.5 Airport facilities

1.5.1 Fuel Handlers

Number of fuel handler companies

<i>Number of fuel handler companies operating at the Airport</i>	2
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<i>Installations inside the airport</i>	<i>EKO</i>	<i>GISS-CO</i>	<i>HAFCO</i>
<i>Environmental Management System (EMS)</i>	YES	YES	Not operating at the airport

1.5.2 Ground Handlers

Number of ground handler companies

<i>Number of ground handler companies operating at the Airport</i>	3
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<i>Installations inside the airport</i>	<i>SKYSERV</i>	<i>SWISSPORT</i>	<i>GOLDAIR</i>
<i>Environmental Management System (EMS)</i>	YES	YES	YES

2. TRAFFIC DATA STATISTICS

2.1 Annual Traffic Data

Annual Traffic Data for the year 2024



Overall Annual Air Traffic Movements¹
17.286



Annual passenger traffic
1.613.638



Annual cargo transferred (tn)
66

Percent of increase or decrease in relation to the previous year



-5,2%



-2,7%



12%

¹ Military and training flights not included.

Aircraft types

Prevailing aircraft types for domestic flights

Aircraft type	No. of flights
AT76	2.730
A320	2.398
AT46	232
A319	229
A20N	76
PAY2	72
GLF5	67
C56X	66
CL35	65
A109	58
Other	1.135

Prevailing aircraft types for international flights

Aircraft type	No. of flights
A320	3.148
B738	1.777
A20N	778
A319	361
E190	347
C56X	304
A21N	258
A321	234
E35L	225
E55P	197
Other	2.784

2.2 High season traffic data

High season traffic data (June-September)

Highest traffic month	July
Air traffic movements during the month with highest traffic	4.162
Air traffic movements daily average number during the month with highest traffic	108

2.3 Low season traffic data

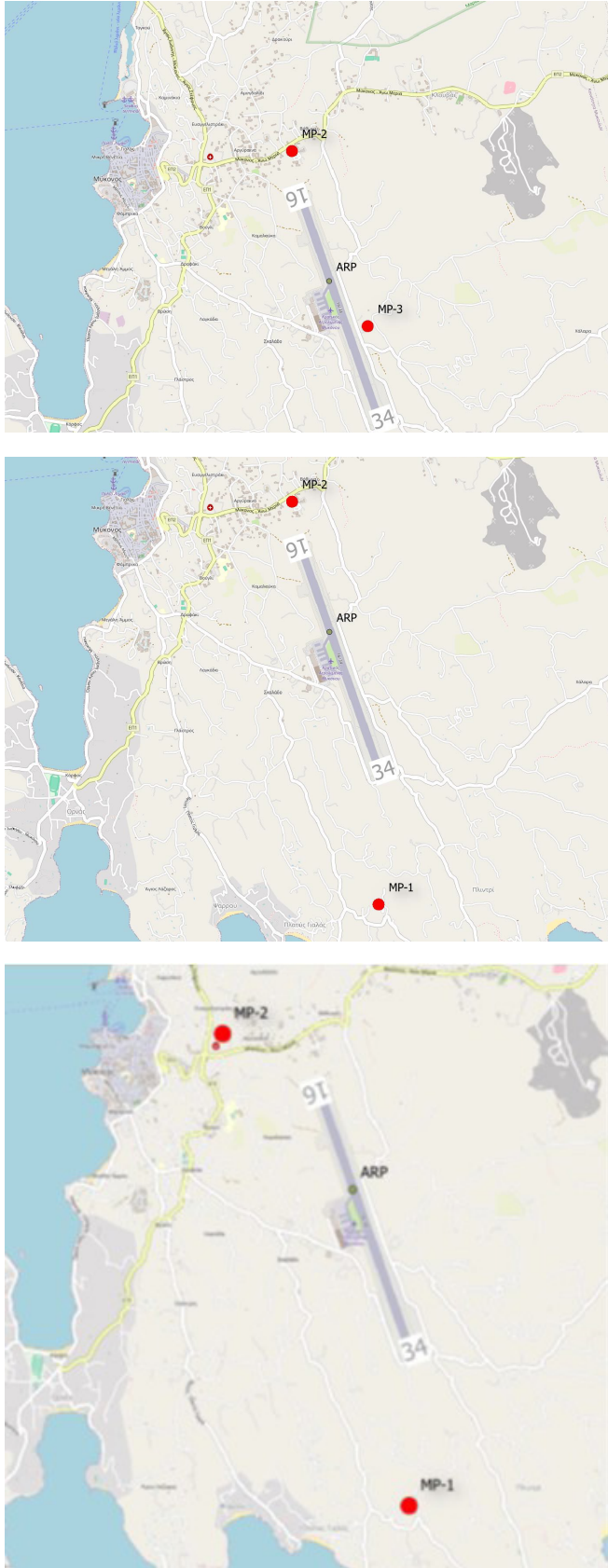
Low season traffic data (October-May)

Lowest traffic month	December
Air traffic movements during the month with lowest traffic	173
Air traffic movements daily average number during the month with lowest traffic	6

3. AIRCRAFT NOISE

3.1 Noise measurements during the reference year

Noise Monitoring Stations



Have noise measurements at the airport's surrounding area been performed during the reference year? YES

Measurement points coordinates	Measurement points description
MP-1: 36° 23' 02" N 25° 29' 05" E	Located in Mykonos, south of the runway in the yard of a hotel. The area is affected by arrivals on RWY 34 and departures on RWY 16.
MP-2: 36° 25' 14" N 25° 28' 11" E	Located in Argiraina, northwest of the runway in the yard of a hotel. The area is affected by arrivals on RWY 16 and departures on RWY 34.
MP-2: 37° 26' 50" N 25° 29' 37" E	Located in Mykonos, north of the runway on the balcony of a supermarket. The area is affected by arrivals on RWY 16 and departures on RWY 34.
MP-3: 36° 22' 59" N 25° 29' 10" E	Located in Mykonos, east of the runway on the balcony of a hotel. The area is affected by arrivals on RWY 34 and departures on RWY 16.
Measurement period	18.06.2024 – 14.06.2024 20.07.2024 – 26.07.2024 20.08.2024 – 26.08.2024
Noise indicators	L_{den} L_{night}

Noise complaints: 0

Summary of measurement results

Noise levels are monitored according to the airport's monitoring program and new approved environmental terms.

In June, the maximum permitted noise levels according to Ministerial Decision 211773/2012 were not exceeded.

In July, the maximum permitted noise levels according to Ministerial Decision 211773/2012 were not exceeded. However, the maximum permitted noise levels were exceeded at MP-2 on day 1, day 2, day 3 and day 4 without affecting the average.

In August, the maximum permitted noise levels according to Ministerial Decision 211773/2012 were exceeded by the average of the week once on MP-2 (LNight). In addition, LNight was exceeded at MP-2 on day 2 and day 7.

3.2 Noise levels calculation based on noise simulation software

Aircraft noise levels calculation based on noise simulation software

YES

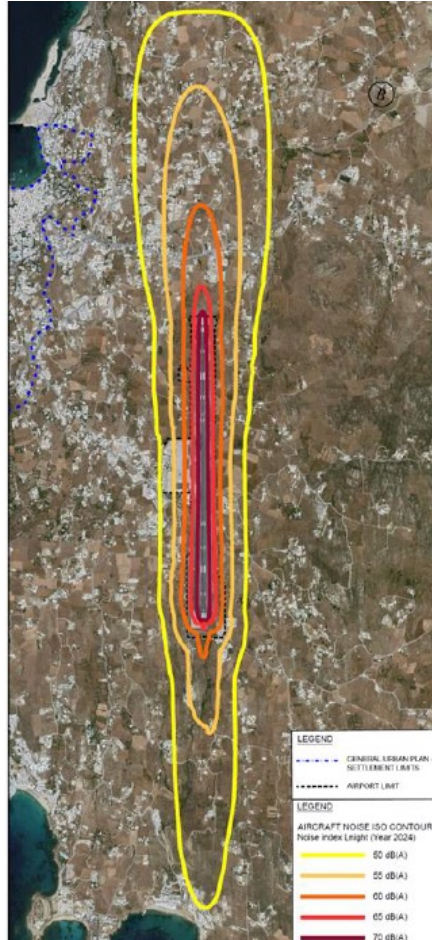
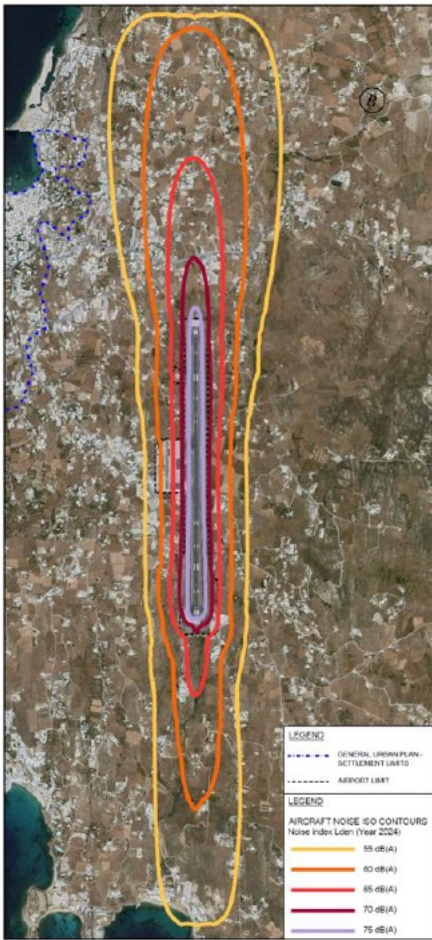
Software used

IMMI Premium 2021

Noise indicators and respective contours calculation

L_{den} L_{night}

Noise contours



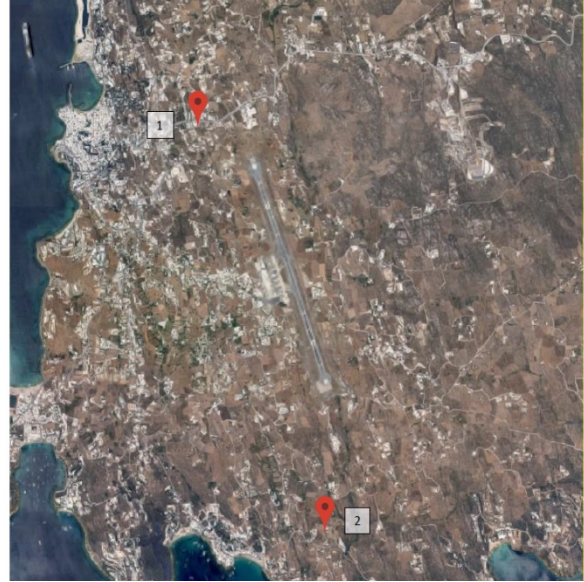
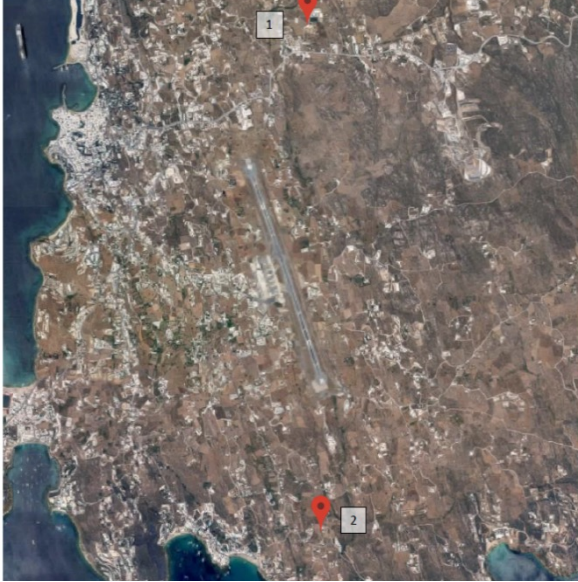
Summary of results

For the year 2024 no buildings inside official settlement boundaries were found to be exposed to noise levels higher than the limits $L_{den} = 70$ dB(A) and $L_{night} = 60$ dB(A).

4. AIR QUALITY

4.1 Air quality measurements during the reference year

Measurement points



Have air quality measurements at the airport's surrounding area been performed during the reference year? **YES**

Measurement points	Measurement points description
Position 1	Hotel area at a distance of approximately 1.6km
Position 2	At a distance of approximately 1. km, to the north of the airport in hotel area
Measurement period	09.05.2024 – 24.05.2024 18.06.2024 – 02.07.2024 03.07.2024 – 17.07.2024 19.08.2024 – 03.09.2024
Pollutants measured	CO, C ₆ H ₆ , NO, NO ₂ , O ₃ , PM ₁₀ , PM _{2.5} , SO ₂

Summary of results

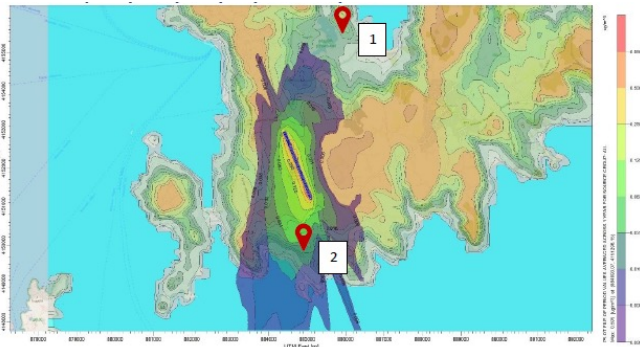
Air quality is monitored according to the airport's monitoring program and new approved environmental terms.

No exceedance of the air quality limits was observed.

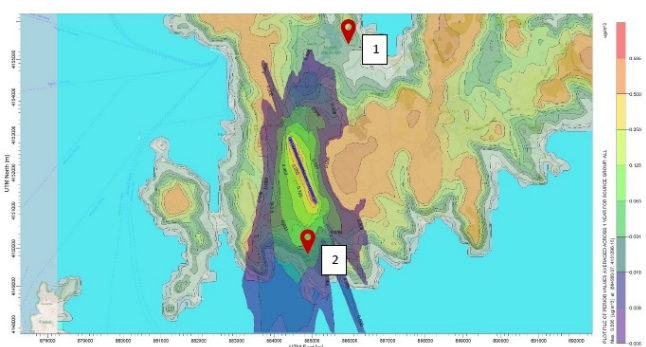
4.2 Air pollutants emission and dispersion modelling

Calculation of air pollutants concentrations based on an emission and dispersion modelling software	YES
Software used	Aviation Environmental Design Tool (AEDT) - US Federal Aviation Administration & US Environmental Protection Agency AERMOD
Pollutants concentrations and respective contours calculation	PM_{10} , $PM_{2.5}$, NO_x , SO_x , C_6H_6 , CO, CO_2

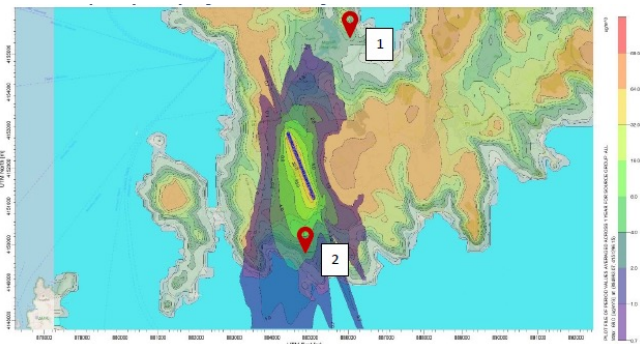
PM₁₀



PM_{2.5}



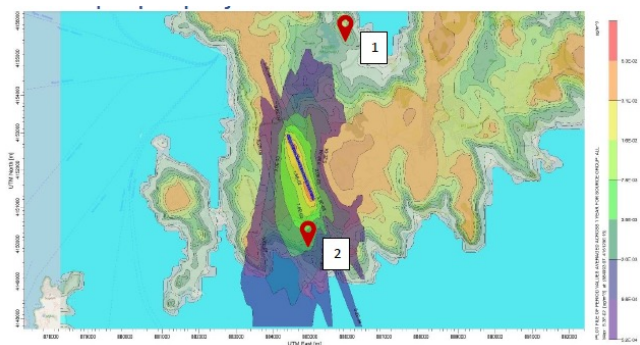
NO_x



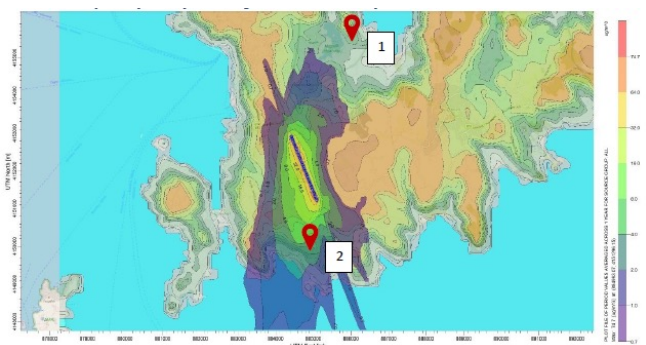
SO_x



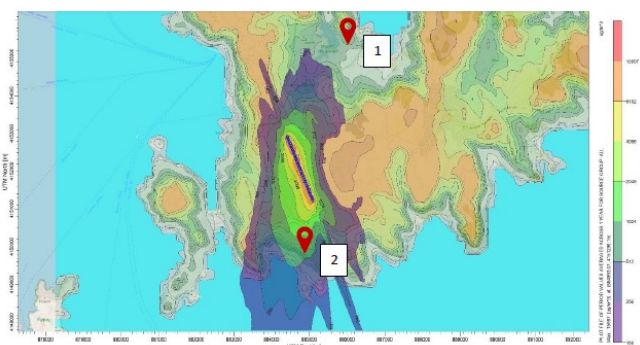
Benzene (C₆H₆)



CO



CO₂



Summary of results

Air quality is monitored according to the airport's monitoring program.

No exceedance of the air quality limits was observed.

5. WASTE MANAGEMENT

<i>Waste</i>	<i>Collection</i>	<i>Management/Disposal</i>
<i>Recyclables (paper, plastic, metals, glass)</i>	<i>Separate collection by appropriately licensed private company</i>	<i>Disposal at material recovery facility for recycling</i>
<i>Residues (Mixed Waste) and Bulky Waste</i>	<i>Collection by appropriately licensed private company</i>	<i>Disposal in landfill</i>

Notes:

1. Regarding the different categories of the MSW (recyclables, mixed waste, bulky waste), the Airport Users handle their waste together with Fraport Greece B (central management).

2. Regarding the “alternative management’ waste categories (Waste lubricant oil WLO, WEEE, etc.):

i. Waste Lubricant Oil (WLO): Collection and management by authorized collector “CYTOP S.A.”

ii. Waste Electrical & Electronic Equipment (WEEE): Collection and management by alternative management system “Appliances Recycling S.A.”

iii. Accumulators: Collection and management by alternative management system “Re-Battery S.A.”

iv. Small batteries: Collection and management by alternative management system “AFIS S.A.”

v. Used tires: Collection and management by alternative management system “ECOELASTIKA S.A.”

3. The total quantities of the hazardous waste further to the above-mentioned and produced at the airport, are managed by licensed private companies which have a contract with Fraport Greece B, after a tender process according to the provisions of the legislation in force.

4. In the year 2024, Fraport Greece B in JMK managed a total of 67,39 tons of Hazardous waste (JMK FG B 66,04 tn, third parties 1,35 tn).

5. The total quantities of the produced waste by category resulting from all activities of the airport, the collectors and final recipients, are recorded by Fraport Greece B and submitted in the Electronic Waste Registry of the Ministry for Environment and Energy via the Annual Waste Producer Report according to the provisions of the legislation in force.

6. ECOSYSTEM AROUND THE AIRPORT

6.1 Flora – Fauna



Flora

Are there protected zones of vegetation/habitats in the broader airport area?

YES

(if YES) Short description: Mikonos Airport is near to the Natura 2000 site:

- GR4220027 - Nisides Mykonou (Rineia, Chtapodia, Tragonisi) (Area:18,508.59ha)



Fauna

Are there protected species of fauna/birds in the broader airport area?

YES

(if YES) Short description: Mikonos Airport is near to the

- Important Bird Area GR197: Rineia, Chtapodia and Tragonisi islets, Mykonos (Area: 18.564,25 ha)
- Important Marine Mammal Area Central Aegean (Area: 5.826.500 ha) where the species *Monachus monachus* is recorded

The protected bird species (listed under Annex I of Directive 2009/147/EC) that have been observed at Mikonos broader airport area since April 2017 are presented below:

Black-winged stilt (*Himantopus himantopus*), Collared pratincole (*Glareola pratincola*), Dalmatian pelican (*Pelecanus crispus*), Eleonora's falcon (*Falco eleonora*), Eurasian sparrowhawk (*Accipiter nisus*), European nightjar (*Caprimulgus europaeus*), Hen harrier (*Circus cyaneus*), Little egret (*Egretta garzetta*), Long-legged buzzard (*Buteo rufinus*), Marsh harrier (*Circus aeruginosus*), Peregrine falcon (*Falco peregrinus*), Red-backed shrike (*Lanius collurio*), Red-footed falcon (*Falco vespertinus*), Ruff (*Philomachus pugnax*), Squacco heron (*Ardeola ralloides*), White stork (*Ciconia ciconia*), Wood sandpiper (*Tringa glareola*)

7. WILDLIFE HAZARD MANAGEMENT

Wildlife strikes and wildlife hazard management measures

Wildlife species that suffered a strike	Strikes (%)
Gulls	34%
Waders	33%
Pigeons	33%

Wildlife strike risk mitigation measures

The presence and behavior of wildlife species at Mikonos airport is monitored in regular intervals, daily, from dawn to dusk. Some of the wildlife control methods applied at Mikonos airport are: distress calls (bioacoustics), digital sounds, anti-bird laser, etc. Preventive long-term actions that are mainly related to habitat management measures (e.g. grass cutting, water body management) are also taken to further reduce the presence of hazardous wildlife species constituting a risk to flight safety. In addition, a NOTAM is published and regularly updated.

8. CULTURAL HERITAGE

Have new cultural heritage properties been discovered during the reporting period?

NO

9. RESOURCES CONSUMPTION



9.1 Energy consumption

Energy consumption (monthly electric energy consumption, in Kwh)

Total annual electric energy consumption (in Kwh)	2.906.394,12*
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*Third parties' consumption is excluded.



9.4 Fuel consumption for generator

Fuel consumption

Total annual consumption (lt)	1.977,83
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9.5 Water consumption

Water consumption

Total annual consumption (m ³)	10.538,00
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9.2 Fuel consumption

Fuel consumption

Number of FG vehicles at the airport	14	
Total annual fuel consumption	Diesel (lt)	4.495,24
	Unleaded gasoline (lt)	5.313,15



9.3 Heating oil or natural gas consumption

Heating oil or natural gas consumption

Total annual heating oil consumption (lt)	-*
Total annual heating natural gas consumption (m ³)	N/A

*Heating and air conditioning is performed via heat pumps.

10. GREENHOUSE GAS EMISSIONS & CARBON FOOTPRINT

Greenhouse gas emissions that were included in the carbon footprint calculation are the CO₂, CH₄ & N₂O emissions included in scope 1 & 2 of the GHG protocol:

- Scope 1: Direct GHG emissions that occur from sources that are owned and/or controlled by the airport,
- Scope 2: Indirect GHG emissions from the generation of purchased electricity, steam, heat or cooling consumed by the airport.

Source Flows	Total CO ₂ e Emissions (t) 2024	
	Location based	Market based
Direct emissions from heating fuel (scope 1)	0,0	0,0
Direct emissions from fuel used for fleet vehicles (scope 1)	24,6	24,6
Direct emissions from fuel from refrigerants (scope 1)	5,2	5,2
Direct emissions from fuel used for generators (scope 1)	0,0	0,0
Indirect emissions from electricity consumption (scope 2)	1.455,0	1.062,9
Total (t)	1.484,8	1.092,7
Kg CO₂e /passenger	0,92	0,68

Notes

Fraport Greece B is committed to the monitoring, management and reduction of its airports carbon footprint.

In order for this target to be achieved:

- Direct and indirect carbon emissions from all the emission sources in the airports' boundaries are calculated and reported, based on the GHG Protocol (scope 1 & 2)
- The airport is certified according to ACA (Airport Carbon Accreditation), Level-1.

11. HUMAN CONSUMPTION WATER MONITORING PROGRAM



Human consumption water quality

Water supply (public water network or airport's boreholes)	DEYA Mykonou - Private borehole - Airport's borehole
Is sampling of the airport's water network performed?	YES
(if YES) Sampling frequency	Quarterly

* During summer, there is also a supply from a private tank.

Summary of results

The results of the chemical analyses show that the water supplied from the private drilling is not potable due to the existence of high concentrations of Sodium and Chlorine (brackish water). Airport users are informed. The results of the microbiological and chemical analyses show that the rest of parameters analyzed as regards the airport's water network are within the legislative limits defined by the Ministerial Decision Δ1(δ)/ΓΠ οικ. 27829/2023 (GG 3525/B` 25.5.2023) regarding the quality of human consumption water.

12. RAINWATER

RAINWATER (collection, treatment disposal and recipient)

Area	Collection/treatment/disposal	[YES/ NO]
Apron and manoeuvring area	Collected in drainage ditches leading to the sea	YES
Other runoffs (runway etc.)	Collected in drainage ditches leading to the sea	YES
Treatment of rainwater by oil-separator		YES

Rainwater quality

Is sampling of the airport's rainwater performed?	YES
(if YES) Sampling frequency	Yearly
Parameters analyzed: pH, conductivity, TSS, DO, NO ₃ , NO ₂ , Oil & grease, BOD, COD, Total Petroleum Hydrocarbons (TPH), PAHs, BTEX, Heavy metals, Detergents	

Summary of results

Surface rainwater quality is monitored according to the airport's monitoring program. Due to the absence of designated recipients and relevant national quality limits for surface rainwater, the Environmental Health & Safety Guidelines of the International Finance Corporation (IFC) are adopted. Surface rainwater monitoring for 2023, was performed and the quality of the water is in accordance with the IFC guidelines. The quality of the water is considered satisfactory.

13. GROUNDWATER AND/OR SOIL AND/OR SOIL GAS MONITORING



Groundwater and/or soil and/or soil gas quality

Is sampling of the airport's groundwater and/or soil and/or soil gas performed?	YES
(if YES) Sampling frequency	Yearly
Parameters analyzed: Volatile hydrocarbons, pH, conductivity, TSS, DO, NO ₃ , NO ₂ , λίπη και έλαια, BOD, COD, TPH), heavy metals (As, Pb, Cd, Cr, Cu, Ni, Hg,) PAHs, PCB	

Summary of results

Groundwater monitoring within airport boundary - Fraport Greece

Groundwater quality is monitored according to the airport's monitoring program from the airport's water borehole managed by Fraport Greece.

Groundwater and/or soil and/or soil gas monitoring at fuel farms – Fuel Handlers

According to the approved Environmental Terms, groundwater and soil monitoring is every two years, so for 2024 there are no results.

14. SEWAGE TREATMENT AND DISPOSAL



Sewage

Sewage network to the municipal wastewater treatment plant (WWTP)	YES
Autonomous airport's wastewater treatment plant (WWTP)	NO

Blue water

Collection and disposal: Collection in watertight tank and disposal to the municipal sewage network.

Waste water treatment plant description (where applicable)

Description of characteristics and condition of the airport's WWTP including possible problems. Type and frequency of the effluent quality measurements

Degree of treatment of airport's WWTP	N/A
Treatment method	N/A
Disposal of treated wastewater	N/A
Sludge disposal	N/A
Sampling frequency of WWTP effluent	N/A
Parameters analyzed	N/A
Summary of quality of WWTP effluent	N/A

Contact

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