

Reference year 2024

ENVIRONMENTAL BULLETIN OF KERKIRA “IOANNIS KAPODISTRIAS” AIRPORT (CFU)

Issue Year: 2025

Fraport Regional Airports of Greece A.S.A.



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1. INTRODUCTION

1.1 Location

Kerkira Airport "Ioannis Kapodistrias" is located S-SW of the city of Kerkira and east of Chalikiopoulos lagoon in an area of approximately 760 acres.

1.2 Administration

The Airport administratively belongs to the Regional Unit of Kerkira of the Region of the Ionian Islands in the Municipal Unit of Kerkira of the Municipality of Kerkira.

1.3 Environmental licensing

Approved Environmental Terms

E.T. Decision Reference number	11945/08.03.2017
	7208/30.03.2018
E.T. Amendment Decision Reference Number	123235/8107/23.11.2022
	56546/3776/02.04.2024
Other	101562/7151/20.03.2024

1.4 Airport Basic Data

Airport name IATA / ICAO	CFU / LGKR
Airport location – Airport Reference Point (ARP)	Latitude: 39° 36' 07" N Longitude: 19° 54' 42" E
Altitude	2m
Number of runways	1
Operation hours (summer)	00:00 – 23:59
Operation hours (winter)	07:30 – 22:30



Runways	Length/Width	Code			
Runway	2,373m x 45m	16/34			
Full length of parallel taxiway	N/A				
Number of taxiways	3				
Apron capacity	A	B	C	D	E
	-	-	8	2	-



Terminal	
Total area (m ²)	31.696



Other buildings and service/storage areas

RFF Station (m ²)	1.606
Guard House (m ²)	77



Employees	High season (31.08.2024)	Low season (30.11.2024)
Fraport Greece (FG) employees	59	48
Employees of other companies	1188	463



Parking Areas	
Car parking spaces	350
Bus parking spaces	28
Taxi parking spaces	55

1.5 Airport facilities

1.5.1 Fuel Handlers

Number of fuel handler companies

Number of fuel handler companies operating at the Airport	2
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Installations inside the airport	EKO	GISSCO	HAFCO
Environmental Management System (EMS)	YES	YES	Not operating at the airport

1.5.2 Ground Handlers

Number of ground handler companies


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


2. TRAFFIC DATA STATISTICS

2.1 Annual Traffic Data

Annual Traffic Data for the year 2024

 Overall Annual Air Traffic Movements¹
31.474

 Annual passenger traffic
4.343.748

 Annual cargo transferred (tn)
39

Percent of increase or decrease in relation to the previous year

 **7,0%**

 **6,8%**

 **-30%**

¹ Military and training flights not included.

Aircraft types

Prevailing aircraft types for domestic flights

Aircraft type	No. of flights
AT76	1.734
A320	1.069
A21N	314
B738	268
AT45	210
A20N	172
A321	82
C56X	46
E55P	33
CL35	29
Other	550

Prevailing aircraft types for international flights

Aircraft type	No. of flights
B738	12.772
A320	6.996
A20N	1.361
A21N	926
A321	828
A319	652
B737	511
E55P	209
C56X	190
DH8D	182
Other	2.342

2.2 High season traffic data

High season traffic data (June-September)

Highest traffic month	August
Air traffic movements during the month with highest traffic	6.414
Air traffic movements daily average number during the month with highest traffic	208

2.3 Low season traffic data

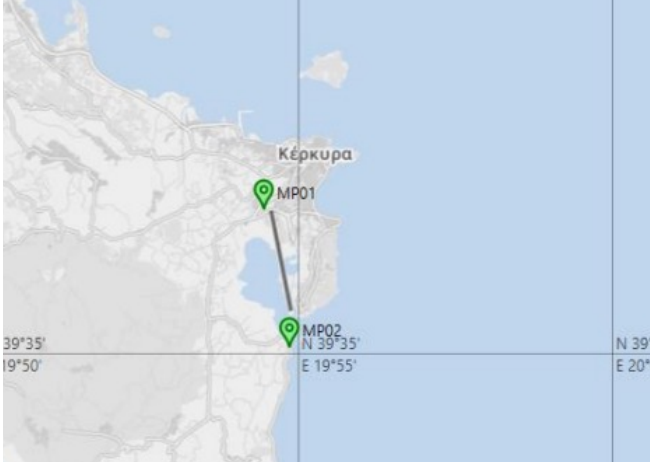
Low season traffic data (October-May)

Lowest traffic month	January
Air traffic movements during the month with lowest traffic	188
Air traffic movements daily average number during the month with lowest traffic	11

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
MP01: 39° 36' 45.43" N 19° 54' 26.84" E	East of the airport, in KTEO parking lot, 500 meters distance.
MP02: 39° 35' 04.03" N 19° 54' 51.22" E	Located in Perama, south of the runway in the garden of a hotel. Affected by departures from runway 17 and arrivals on runway 35.
Measurement period	01.01.2024 – 14.11.2024*
Noise indicators	L_{den} , L_{night}

*The operation of NMTs was interrupted on 15.11.2024 in order to calibrate the sound level meters to an accredited laboratory. The calibration was completed in accordance with the instructions of the Joint Ministerial Decision 211773/2012. The re-operation of both stations began in January 2025.

Noise complaints: 1

One complaint was received regarding aircraft noise from a tourist, which was promptly responded to.

Summary of measurement results

Noise levels are monitored according to the airport's monitoring program.

MP01: L_{den} = 72,0 dB(A) & L_{night} = 64,3 dB(A)

MP02: L_{den} = 61,8dB(A) & L_{night} = 53,8 dB (A)

Exceedance of the noise indicators levels $L_{den} > 70$ dB(A) and $L_{night} > 60$ dB(A) in MP01 was observed.

Aircraft noise exceedances are due to Airport operations; however, noise abatement measures and procedures are being considered. In addition, according to E.T 5.5.1.6, YPEN/DIPA/56546/3776/02.04.2024 "a special noise study will be prepared through technical cooperation between the airport operator, the Hellenic Aviation Service Provider (HASP) and the Hellenic Civil Aviation Authority (HCAA) for the examination of measures and to mitigate the aircraft noise, as provided for in European Regulation EC 598/2014 for the imposition of operating restrictions due to noise at the airports of Union within a balanced approach. The study will be submitted for approval to the competent authorities."

3.2 Noise levels calculation based on noise simulation software

Aircraft noise levels calculation based on noise simulation software

NO

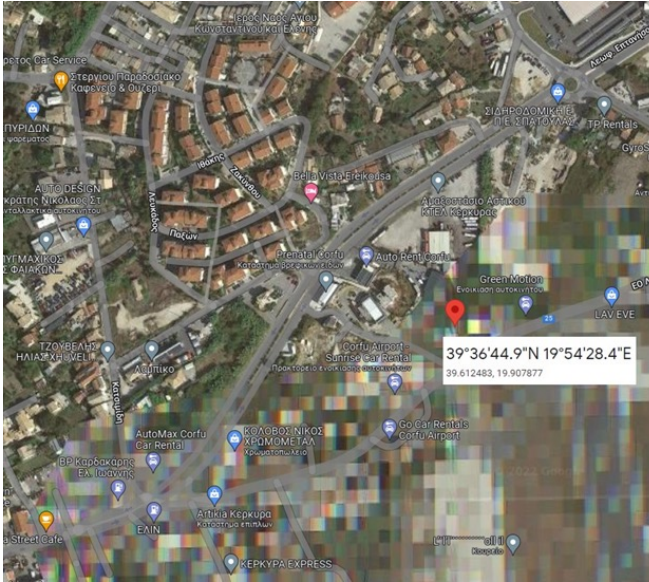
Summary of results

According to the approved ET, there is no obligation for the preparation of a noise simulation software for year 2024.

4. AIR QUALITY

4.1 Air quality measurements during the reference year

Air Quality Monitoring Network



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

Measurement points	Measurement points description
Position: 39° 36' 44.9" N 19° 54' 28.4" E	East of the airport, in KTEO parking lot, 500 meters distance.
Measurement period	01.01.2024 – 31.12.2024
Pollutants measured	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , C ₆ H ₆ , O ₃

Summary of results

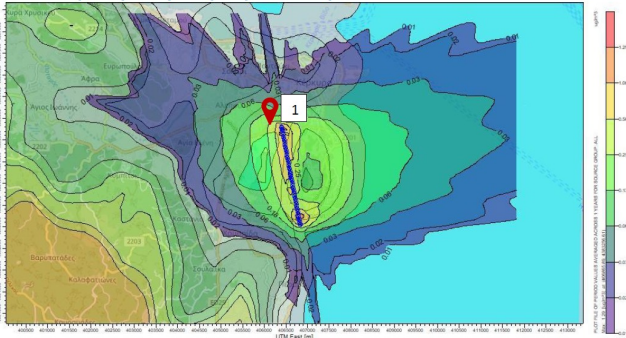
Air quality is monitored according to the airport's monitoring program.

Exceedances in PM₁₀ were observed, from the operation of one asphalt plant outside airport's boundaries.

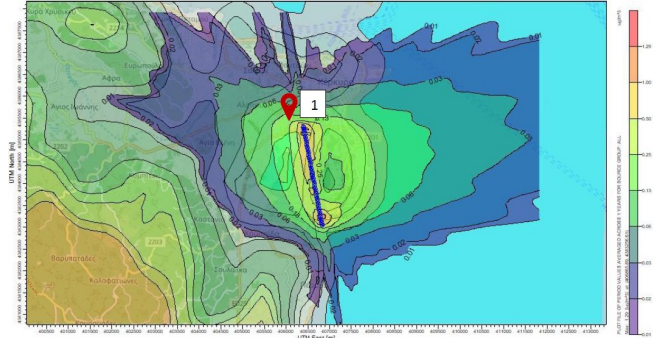
4.2 Air pollutants emission and dispersion modelling

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 ₆ H ₆ , CO

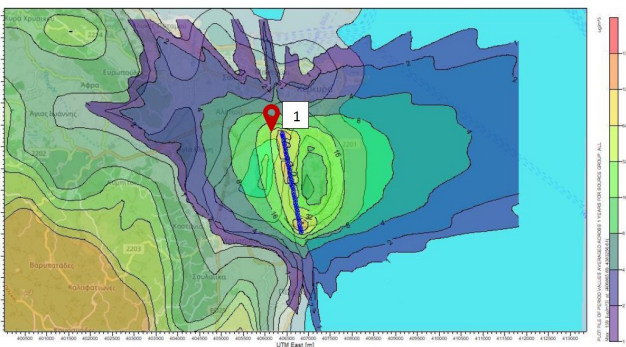
PM₁₀



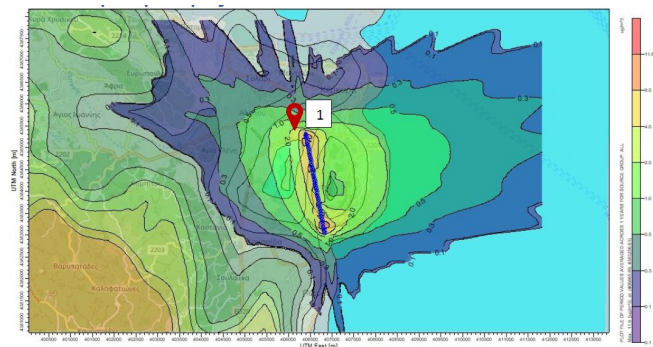
PM_{2.5}



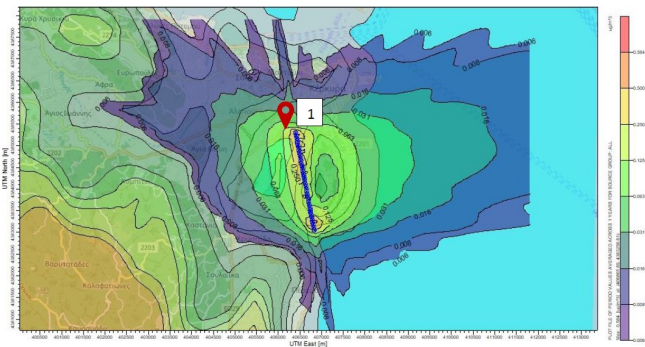
NO_x



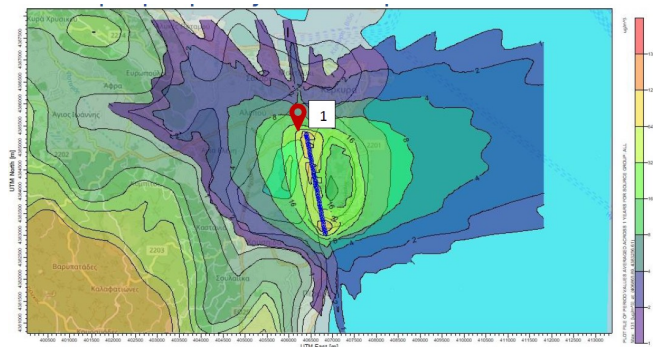
SO_x



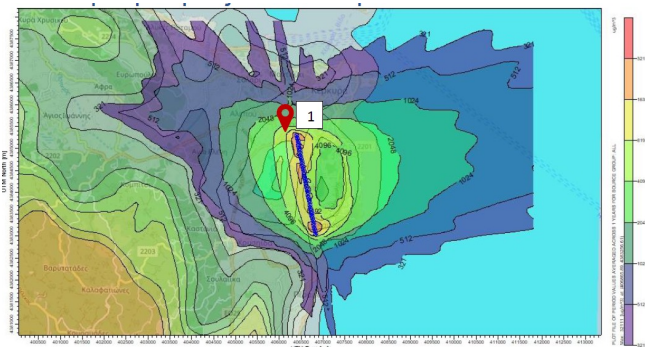
Benzine (C₆H₆)



CO



CO₂



Summary of results

Air modeling is executed according to the approved Environmental Terms.
No exceedances were observed.

5. WASTE MANAGEMENT

Waste	Collection	Management/Disposal
<i>Recyclables (paper, plastic, metals, glass)</i>	<i>Separate collection by appropriately licensed private company</i>	<i>Disposal at Kerkira material recovery facility for recycling</i>
<i>Residues (Mixed Waste) and Bulky Waste</i>	<i>Separate collection by appropriately licensed private company</i>	<i>Disposal at Kerkira material recovery facility for materials recovery and disposal to landfill afterwards</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 A (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 A, after Tender process according to the provisions of the legislation in force.
4. In the year 2024, Fraport Greece A in CFU managed a total of 132,25 tons of Hazardous waste (CFU FG A 122,88 tn, third parties 9.37 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 A 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:

Kerkira Airport "Ioannis Kapodistrias" is near to the Natura 2000 site:

- GR2230005 Paraktia Thalassia Zoni Apo Kanoni Eos Mesongi (Area: 867.29 ha)



Fauna

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

YES

(if YES) Short description:

Kerkira Airport "Ioannis Kapodistrias" is near to the

- Important Bird Area GR083 Lagoons of Kerkyra island (Area: 1.993,74 ha)
- Important Marine Mammal Area Ionian Archipelago (Area: 960.600 ha) where the species *Delphinus delphis* and *Monachus monachus* are recorded
- Important Marine Mammal Area Hellenic Trench (Aea: 566.0000 ha) where the species *Physeter microcephalus* and *Ziphius cavirostris* are recorded

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

Avocet (*Recurvirostra avosetta*), Black-throated loon (*Gavia arctica*), Black-winged stilt (*Himantopus himantopus*), Collared pratincole (*Glareola pratincola*), Common crane (*Grus grus*), Common tern (*Sterna hirundo*), Eurasian sparrowhawk (*Accipiter nisus*), Eurasian spoonbill (*Platalea leucorodia*), Eurasian stone-curlew (*Burhinus oedicnemus*), European kingfisher (*Alcedo atthis*), Flamingo (*Phoenicopterus roseus*), Glossy ibis (*Plegadis falcinellus*), Golden plover (*Pluvialis apricaria*), Great egret (*Casmerodius albus*), Hen harrier (*Circus cyaneus*), Little egret (*Egretta garzetta*), Marsh harrier (*Circus aeruginosus*), Mediterranean gull (*Larus melanocephalus*), Osprey (*Pandion haliaetus*), Pallid harrier (*Circus macrourus*), Peregrine falcon (*Falco peregrinus*), Purple heron (*Ardea purpurea*), Red-backed shrike (*Lanius collurio*), Red-footed falcon (*Falco vespertinus*), Ruff (*Philomachus pugnax*), Sandwich tern (*Sterna sandvicensis*), Squacco heron (*Ardeola ralloides*), Tawny pipit (*Anthus campestris*), Wood sandpiper (*Tringa glareola*).

7. WILDLIFE HAZARD MANAGEMENT

Wildlife strikes and wildlife hazard management measures

Wildlife species that suffered a strike	Strikes (%)
Hérons	50%
Ducks	22%
Small passerines	7%
Gulls	7%
Pheasants	7%
Pigeons	7%

Wildlife strike risk mitigation measures

The presence and behavior of wildlife species at Kerkira airport is monitored in regular intervals, daily, from dawn to dusk. Some of the wildlife control methods applied at Kerkira airport are: distress calls (bioacoustics), digital sounds, anti-bird laser, pyrotechnics, selective culling using firearms (only after the application of the previous measures) etc. Preventive long-term actions that are mainly related to habitat management measures (e.g. grass cutting, water body management, ground levelling) 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)	5.000.873,40*
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*Third parties' consumption is excluded.



9.4 Fuel consumption for generator

Fuel consumption

Total annual consumption (lt)	10.004,62
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9.5 Water consumption

Water consumption

Total annual consumption (m ³)	4.407,16*
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*The quantity of annual consumptions corresponds to half the year, as water bills from DEYAK were not yet received.



9.2 Fuel consumption

Fuel consumption

Number of FG vehicles at the airport	22	
Total annual fuel consumption	Diesel (lt)	22.890,13
	Unleaded gasoline (lt)	9.611,65



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)	83,7	83,7
Direct emissions from fuel used for generators (scope 1)	26,4	26,4
Direct emissions from refrigerants (scope 1)	0,0	0,0
Indirect emissions from electricity consumption (scope 2)	2.503,6	1.828,9
Total (t)	2.613,7	1.939,0
Kg CO₂e /passenger	0,60	0,45

Notes

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

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)
- 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)	Municipal Water & Sewage Company of Kerkira
Is sampling of the airport's water network performed?	YES
(if YES) Sampling frequency	Quarterly

Summary of results

The results of the chemical analyses show that the water provided by the Municipal Water & Sewage Company of Kerkira is non potable due to high concentration of sulphates. Airport users are informed. The rest of the results of the microbiological and chemical analyses show that the 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		Annual
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 2024 was performed and the quality of the water is in accordance with the IFC guidelines. However, presence of hydrocarbons (C₁₀-C₄₀) (µg/l) and detergents is recorded, and the monitoring of the phenomenon will continue.

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	Annual
Parameters analyzed: TPH, BTEX, MTBE, PAH	

Summary of results

Groundwater monitoring within airport boundary - Fraport Greece

Groundwater quality is monitored according to the airport's monitoring program from boreholes managed by Fraport Greece. The results show increased hydrocarbon values (C₁₀-C₄₀) (mg/lt), exceedances in heavy metals (Zinc) and high concentrations in fats and oils. The area around the borehole that presented the exceedances will be further investigated for the appropriate corrective actions.

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

According to the approved environmental terms, monitoring of groundwater and soil from the Fuel Handlers was performed by both EKO (2024) and GISSCO (2024). Results are satisfactory with no exceedances.

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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