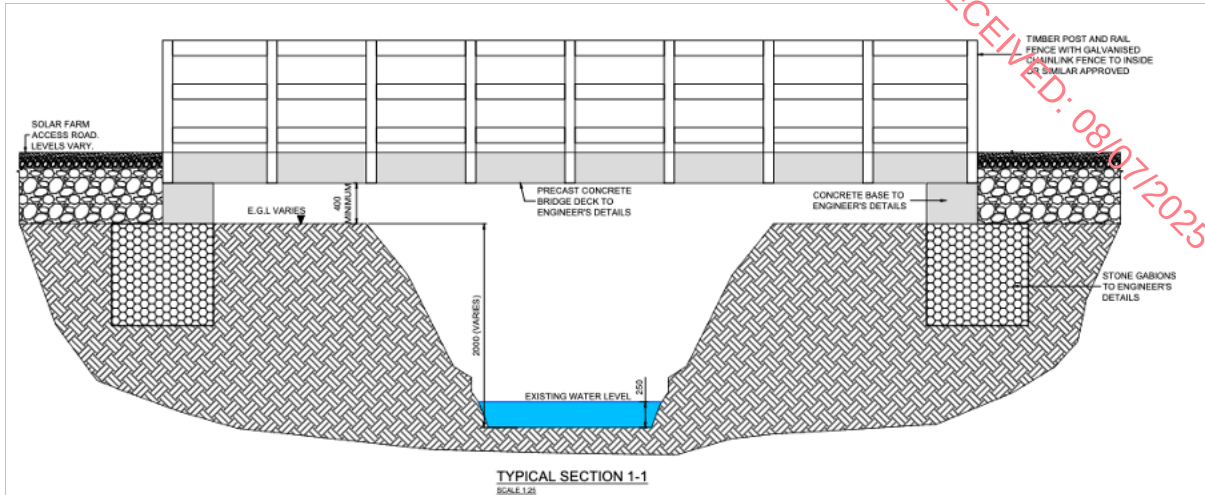


Plate 6 – Proposed Bridge Design

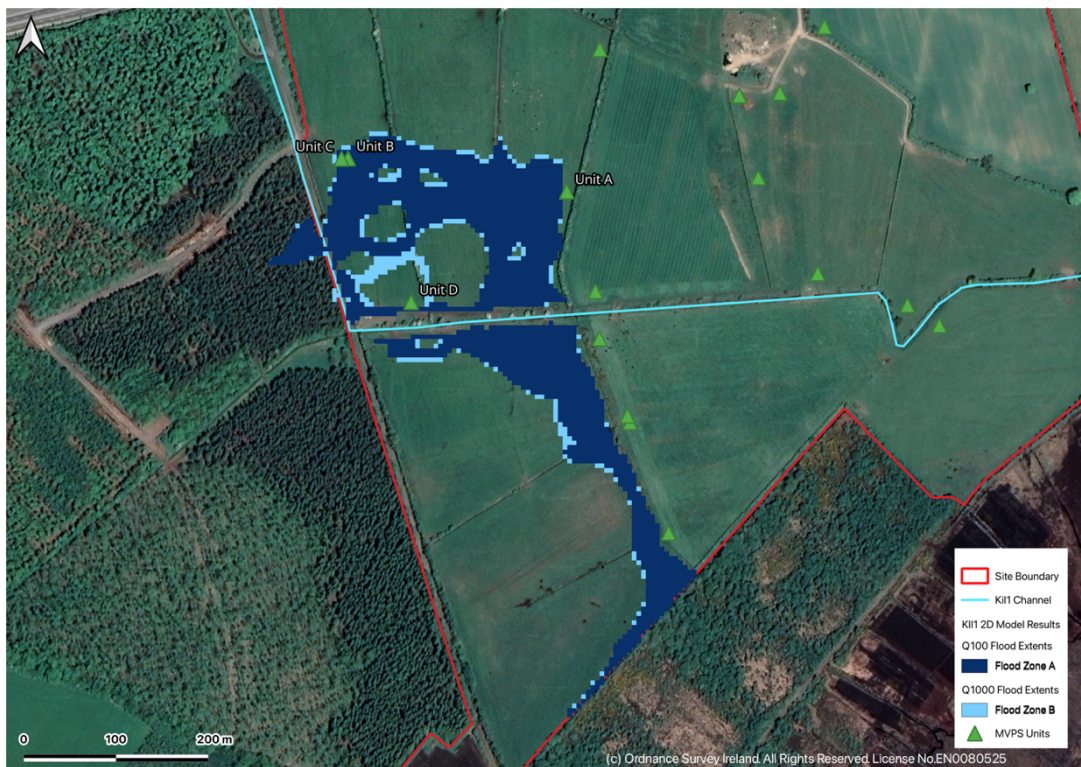


6 MITIGATION

6.1 MVPS UNITS

When the flood extent polygon for the Kil1 channel is overlain onto the site layout map it becomes apparent that 4 of the proposed MVPS units are potentially at risk of flooding. These MVPSs are referred to as Unit A, Unit B, Unit C and Unit D and are located in the southern portion of the site.

Figure 17 - Location of Proposed MVPS units in Southern Site Portion



Summary details are included in Table 20. Results show that maximum flood depths during a Q_{100+cc} and Q_{1000} will not exceed 0.11 m depth.

Table 20 - Predicted surface water elevations at Potentially Affected MVPS units

MVPS unit	Easting, m	Northing, m	GL, mOD	Q_{100} , mOD	Q_{1000} , mOD	Max. Flood Depth, m	Recommended Minimum FFL, mOD	Proposed FFL, mOD
Unit A	645,882	738,594	85.01	85.10	85.12	0.11	85.42	85.81
Unit B	645,646	738,628	85.90	85.92	85.94	0.04	86.24	86.5
Unit C	645,637	738,627	85.91	85.93	85.94	0.03	86.24	86.51
Unit D	645,713	738,473	85.54	85.65	85.65	0.11	85.95	86.14

As per the Flood Risk Guidelines (2009) minimum recommended finished floor level of any MVPS units should be a minimum 300 mm above the predicted Q_{100} elevation, with a 20% allowance included for climate change. The minimum recommended finished floor level of all MVPS enclosures is set at 300 mm above Q_{1000} . The proposed FFL is 600 mm above ground level. Hence, the proposed FFL of each MVPS exceeds the minimum recommended FFL, satisfying the OPW criteria in design proposals.

The MVPS unit has dimensions 6 m x 2.4 m and sits on 3 concrete pads, akin to lintels. The loss of active floodplain lost by constructing MVPS units A – D within Flood Zone A/B will potentially < 1 m³ of active floodplain storage in the area. This is considered negligible in terms of the overall flood plain area.

The flood model showed that the floodplain is functioning as a conveyance route. The conveyance of flood waters shall not be impeded by the construction of MVPS units A – D.

All other proposed MVPS units and buildings within the application site are in Flood Zone C and hence the site layout design is in accordance with the Flood Risk Guidelines (2009).

6.2 SOLAR PANELS

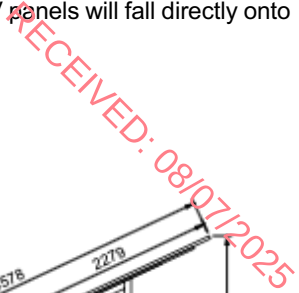
The solar panel modules will be fixed in position so there will be no moving parts. The panels use galvanised steel framing piles driven into the ground and the PV panels will be arranged in south facing rows ranging from 2 m to 6 m apart within existing field boundaries. The overall Solar PV contains full table solar panel arrays (29.98 m long x 4.6 m wide x 2.8 m high) and half table solar Panel arrays (14.98 m long x 4.58 m wide x 2.8 m high). The proposed Solar PV Solar Development will have a capacity of approximately 170 MWp thereby supplying approximately 140,000 MWh per annum of renewable power to the national grid which will assist in the secure supply of energy in the region and provide a valuable contribution to cutting greenhouse gas emissions.

Solar panels will be mounted on metal stakes that will be buried approximately 1,500 mm into the ground. The panels are mounted on the stakes at an angle such that the lower end sits 800 mm above ground and the upper end will be 2,735 mm above ground (Plate 7).

Solar panels will be mounted on a frame above ground level with no requirement to alter the existing topographical profile of the site. The lowest part of the panel will be 800 mm above ground, which exceeds the predicted

panels will fall directly onto

panels will fall directly onto



panels will fall directly onto

panels will fall directly onto

- panels will fall directly onto

panels will fall directly onto

panels will fall directly onto

6.5 IN-STREAM WORKS METHOD STATEMENT

6.5.1 Introduction

The following method statement shall be made available to Westmeath County Council, National Parks and Wildlife Service, and Inland Fisheries Ireland for review prior to works commencing.

The method statement intends to describe programme of works relating to the construction of two bridges, outlining in broad terms the manner in which the different aspects of the work will be undertaken. These works are required to accommodate development works as part of Project Admiral.

The aim of this programme of works are as follows:

- a. Construction of two bridges along the Kil1 Channel
- b. Maximise potential for development of ecological habitat along all river channels within the site boundary. This will include suitability for fish passage, and provision of areas suitable for spawning;
- c. Minimise the amount of damage to existing habitat during construction of the two proposed bridges.

6.5.2 Cleaning Original Channels

There are certain sections of river bank and channel bed of the Kil1, Kil2 and Cas1 channel that are overgrown and require cleaning. Blockages of vegetation along the field drains previously mentioned will be also removed. This is necessary to ensure the cross-sectional area provides adequate conveyance capacity to transmit flood flows. All vegetation and excess silt in the channels will be removed using an excavator. It is acknowledged that there will be a temporary adverse impact to habitat associated with the removal of this vegetation. Once new vegetation is established, the longer-term impact will be positive.

6.5.3 Mitigation Measures: Bridge Construction Phase

Any works involving the Kil1 channel and its banks will commence from the downstream end. It is deemed unnecessary and impractical to divert the flow in the Kil1 channel during the construction phase. A cofferdam should be placed 100 m downstream of each construction area to trap excess sediment and prevent it entering the watercourses downstream of the site. Straw bales can be placed at increments along the Kil1 channel to trap sediment. Sediment removal can occur periodically over the first number of weeks following completion of the construction phase.

6.5.4 General Channel Modifications

The gradient across the Kil1 channel route is moderate to high which means there is potential for introducing oxygen to the stream by way of cascades and turbulent zones. Velocity, and turbulence, can be increased slightly at minor narrowed sections in a low flow channel, as per Plate 8.

Rows of larger stones/boulders will be placed on the stream bed in flatter sections to create riffles. Where possible, the channel will be deepened on the outer side of any bends to create pools.

Plate 8 – Narrow river channel in low flow (IFI & OPW, 2010)



6.5.5 Channel Cross Sections

In the event that any unforeseen channel modifications are required during the bridge construction phase the following will be adhered to. The width of the river channel will be reduced from the river bed to a height of 300 mm. This reduced width will be around 0.5 – 1.0 m. This has the effect of maintaining higher velocities in the wetted channel during normal and low flow regimes. The upper section of the profile will be wider, to provide a conveyance capacity capable of transmitting flood flows. A schematic is presented in Plate 9. The inside of any channel bends will be landscaped with sloping marginal benches, as shown in Plate 10.

Plate 9 - Schematic of stream cross sectional profile (ERFB, 2011)

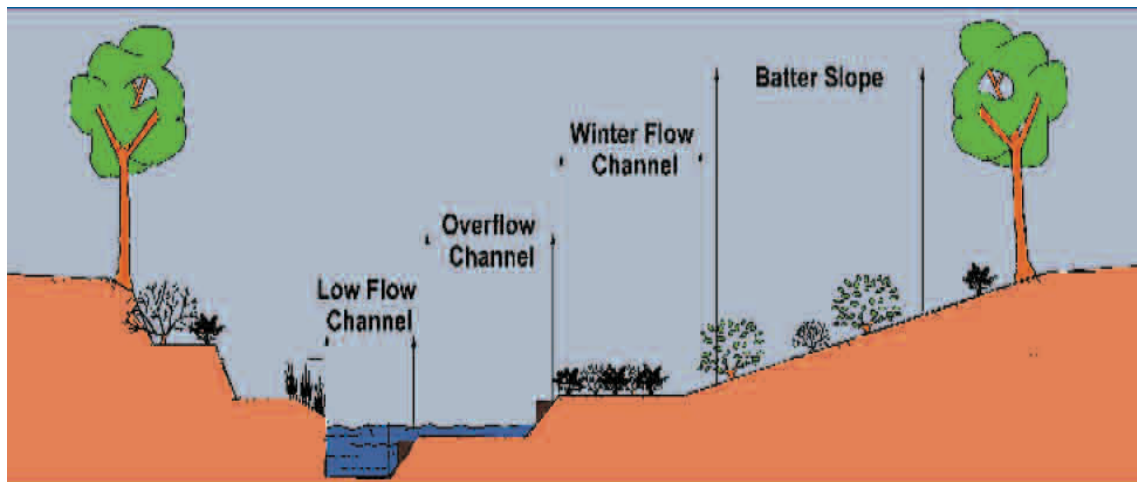


Plate 10 – Example of stepped bend of river bend



6.5.6 [Channel Bank Vegetation](#)

Any excavated soils will be stockpiled temporarily and used to cap the banks of the rehabilitated channel. This will promote establishment of vegetation. The rehabilitated channel bank will be planted with native species that can be controlled/maintained to ensure conveyance capacity of channel is not significantly reduced by overgrowth in future. Grass and juvenile, native trees are deemed suitable. Trees will provide cover to pooled sections of the river channel. Bank gradients should be such that no bank failure or slippages will occur in future.

6.5.7 [Hydrocarbons](#)

Hydrocarbon spill kits will be on-site during works. Any fuels and lubricants will be stored in bunded compounds. Refuelling will be carried out safely and securely away from the river environs. Machinery will be fully inspected prior to, and during, the course of works for suitability. Support vehicles will remain on the tarmac / hard-core roadway.

6.5.8 [Timing of Works](#)

All works within the river channel shall be carried out between the months of August to September, to coincide with low stream flows and to avoid interference with spawning runs. Bank maintenance works on existing sections, primarily involving the removal of scrub, should take place between October and March.

6.5.9 [Invasive Species](#)

Standard precautionary measures to be practiced for protection against risk of invasive species. Any machinery, including excavator and dumper will be cleaned with a pressure washer prior to arriving on site, and upon leaving site.

7 JUSTIFICATION TEST

Based on the information above the proposed development works will take place within Fluvial Flood Zones A, B and C.

Revisiting the Planning System and Flood Risk Management Guidelines (2009) 'energy infrastructure' is considered highly vulnerable development and is considered appropriate in Flood Zone C. Solar farms can be considered as 'less vulnerable' or 'water compatible' given that they are essentially inert structures mounted 800 mm above ground. Less vulnerable development is considered appropriate in Flood Zone B and Flood Zone C, and requires a Justification Test in Flood Zone A. Water compatible development is considered appropriate in all Flood Zones. Nevertheless, in taking a conservative approach the Justification Test shall be applied.

7.1 DEVELOPMENT MANAGEMENT JUSTIFICATION TEST

The Development Management Justification Test is used at the planning stage where it is intended to develop land at moderate or high risk of flooding for uses or development vulnerable to flooding that would generally be inappropriate for that land.

The Development Management Justification Test is an assessment of whether a development proposal within an area at risk of flooding meets specific criteria for proper planning and sustainable development and demonstrates that it will not be subject to unacceptable risk nor will it increase flood risk elsewhere. According to the County Westmeath Land Use Zonings Map for County Development Plan 2021 – 2027 the application area is not zoned.

In line with the Flood Risk Guidelines (DoEHLG, 2009) where a planning authority is considering proposals for new development in areas at a high or moderate risk of flooding that include types of development that are vulnerable to flooding and that would generally be inappropriate, the planning authority must be satisfied that the development satisfies all of the criteria of the Justification Test as it applies to development management outlined in Table 21.

All other proposed MVPS units and buildings within the application site are in Flood Zone C and hence the site layout design is in accordance with the Flood Risk Guidelines (2009).

Table 21 - Requirements of Part 1 of the Justification Test

Requirement		Site Specific Response
Part 1		
	The subject lands have been zoned or otherwise designated for the particular use or form of development in an operative development plan, which has been adopted or varied taking account of the flood risk guidelines.	In accordance with the Westmeath County Development Plan 2021 – 2027 the application site is not zoned. Given energy infrastructure and solar farms are typically located in rural areas this lack of zoning is standard. Planning permission for energy infrastructure in this area has been approved in the past.
Part 2		

(i)	The development proposed will not increase flood risk elsewhere and, if possible, will reduce overall flood risk.	The flood risk assessment demonstrates that development can take place on the site without increasing flood risk elsewhere. The flood model showed that the floodplain is functioning as a conveyance route. The conveyance of flood waters shall not be impeded by the construction of MVPS units A – D. The loss of floodplain due to solar farm mounting legs is considered to be negligible. The MVPS unit has dimensions 6 m x 2.4 m and sits on 3 concrete pads, akin to lintels. The loss of active floodplain lost by constructing MVPS units A – D within Flood Zone A/B will potentially < 1 m³ of active floodplain storage in the area. This is considered negligible in terms of the overall flood plain area.
(ii)	The development proposal includes measures to minimise flood risk to people, property and the economy and the environment as far as reasonably possible.	The development proposal includes for construction of two new bridges. The design specifications are in compliance with OPW Section 50 guidelines and incorporate recommended freeboard.
(iii)	The development proposal includes measures to ensure that residual risks to the area and/or development can be managed to an acceptable level as regards the adequacy of existing flood protection measures of the design, implementation and funding of any future flood risk management measures and provisions for emergency services access.	There will be no residual impacts in terms of flood risk as a result of the proposed development. All rainfall-runoff will leave the application site at greenfield runoff rates.
(iv)	The development proposed addresses the above in a manner that is also compatible with the achievement of wider planning objectives in relation to development of good urban design and vibrant and active streetscapes.	As per the Westmeath County Council Development Plan 2021 – 2027 SFRA permitting the proposed development will avoid any unnecessary restriction of national, regional or local economic and social growth.

Table 21 above is provided to demonstrate how the proposed development on the application site passes the Justification Test for Development Management. This has been informed by a Stage 3 flood risk assessment which has been carried out to the appropriate level of detail to demonstrate that flood risk to and from the development can or will adequately be managed at the site.

8 SUMMARY

Development works are proposed at a site in the townlands of Kiltotan and Collinstown, Oldtown, Gneevebane and Farthingstown, Co. Westmeath. The development consists of a data centre campus and a decentralised energy resource comprising of a Solid Oxide Fuel Cell (SOFC) power system, Battery Energy Storage System (BESS), Solar Photovoltaic (PV) installation and a grid connection to the high voltage (220 kV) electricity network.

Following groundtruthing it was confirmed that the proposed development site drains to two separate surface water catchments, these being the Castlejordan River to the north, and the Mongagh River (EPA Name: Kiltotan & Collinstown) to the south. For reporting purposes these two watercourses have been divided into two sub-catchments, referred to by Envirologic as Cas1 and Cas2, and Kil1 and Kil2.

The site slopes generally from west-east/northwest-southeast and is bisected by the east-west M6 Motorway. According to desktop resources soils in the area are relatively well-drained and underlain by limestone till and pure limestones, resulting in moderate recharge rates. Parts of the application site on the southern side of the M6 are underlain by cut peat.

The desktop study also showed that there are no obvious indicators of flood risk in the area with no evidence of flooding on historical maps, and no historical events on the OPW flood event database. Infill resulting from M6 motorway construction appears to have been deposited on the low-lying peat deposits such that ground elevations on some of the lands in the southern portion of the site are now higher than surrounding greenfield areas.

Some of the drainage channels are maintained as part of an OPW arterial drainage scheme and these were noted as being deep and steep-sided. The main Castlejordan River channel (Cas1) flows in a southeasterly direction adjacent to the northern site boundary. It is culverted beneath the R446 and continues towards the southern side of Rochfortbridge. It is fed by a small tributary on the eastern side of the site, and has a small catchment of 2.6 km² to its downstream surveyed extent.

The main Kiltotan Stream channel rises on the southern boundary of the central site area and flows eastwards for a short distance before being culverted beneath the M6. South of the M6 it flows adjacent to a minor access road before turning eastwards and flowing through the centre of the southern portion of the site. A tributary that runs along the southern site boundary outfalls to this main channel close to the southeastern corner of the site.

Envirologic carried out extensive channel and cross section survey works to compile 1D-2D linked hydraulic models for the drainage network. Off-site flooding was noted on the Castlejordan River where it is culverted underneath the R446. On-site flooding fluvial flooding is predicted in the southern portion of the site; this is due to Kil1 surcharging at a culvert beneath a forestry access point (Kil1_02) and adjacent to a local access road (Kil1_04). This flooding inundates lands in the southern portion of the application site, to a maximum depth of 0.61 m.

A number of mitigation measures have been recommended with a view to facilitating the development. There are no proposals to install flood defences or raise riverbanks as this would displace floodwaters elsewhere. Instead the hydrological regime of the site will not be altered in any way. Solar panels are all raised above flood levels by way of mounting legs. Proposed finished floor levels of all MVPS units shall be a minimum 300 mm above Q₁₀₀₀ flood elevations.

Specifications have been presented elsewhere for SuDS devices which will facilitate disposal of rainfall-runoff generated on hardstanding areas.

The northern and central portions of the site are in Flood Zone C and highly vulnerable development is appropriate here. Part of the solar farm in the southern portion of the site will be in Flood Zone A. As the solar farm has been designed to be a water compatible land use, due to all solar panels being raised above maximum predicted flood level, this form of development is deemed appropriate to progress in Flood Zones A, B and C. The floodplain in this part of the site is functioning as a conveyance route and there will be no increase in flood risk due to these works.

In line with the Flood Risk Guidelines (DoEHLG, 2009), the flood risk assessment demonstrates that the site and proposed site activities satisfy Part 1 of the Justification Test. Hence the Justification Test can proceed to Part 2. The flood risk assessment, which was performed at an appropriate scale, has shown that the proposed site layout design is deemed to have passed Part 2 of the Justification Test.

It can be concluded that the proposed development will not have a negative impact, in terms of flood risk, on the local drainage network, on local private property, or to the surrounding environment and human health.

Subject to the proposed works being carried out in accordance with the specifications presented in this assessment, it can be concluded that the proposed development will not have a negative impact, in terms of flood risk, on the local drainage network, on local private property, or to the surrounding environment and human health.

Permission for the proposed bridges shall be sought from the OPW by way of Section 50 license applications.

9 REFERENCES

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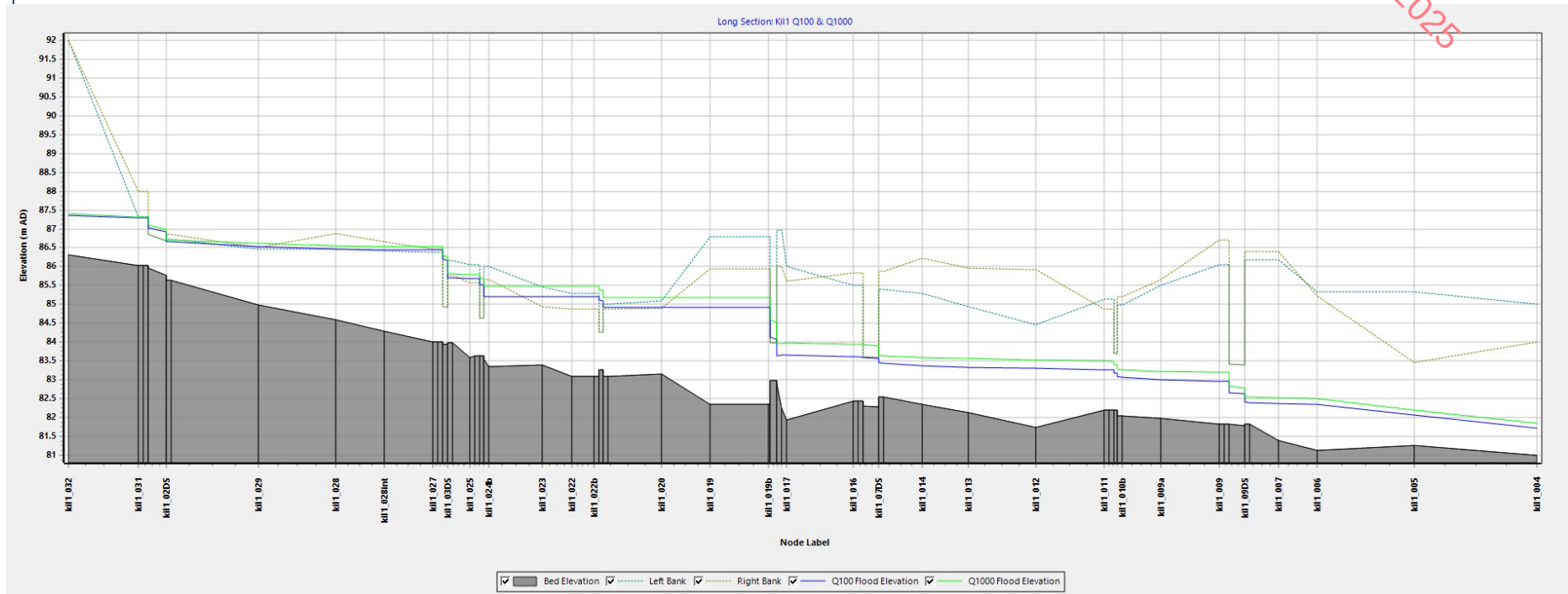
OPW, 2012. The National preliminary flood risk assessment (pfra): Designation of the areas of further assessment. Office of Public Works, Dublin, March 2012.

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This report refers, within the limitations stated, to the condition of the site(s) at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the sites(s). The report is based on a visual site inspection and the physical investigation as detailed. Envirologic take no responsibility for conditions that have not been revealed due to lack of access. Whilst every effort has been made to interpret the conditions observed, such information is only indicative, and liability cannot be accepted for its lack of accuracy in representing geological/hydrological/hydrogeological conditions.

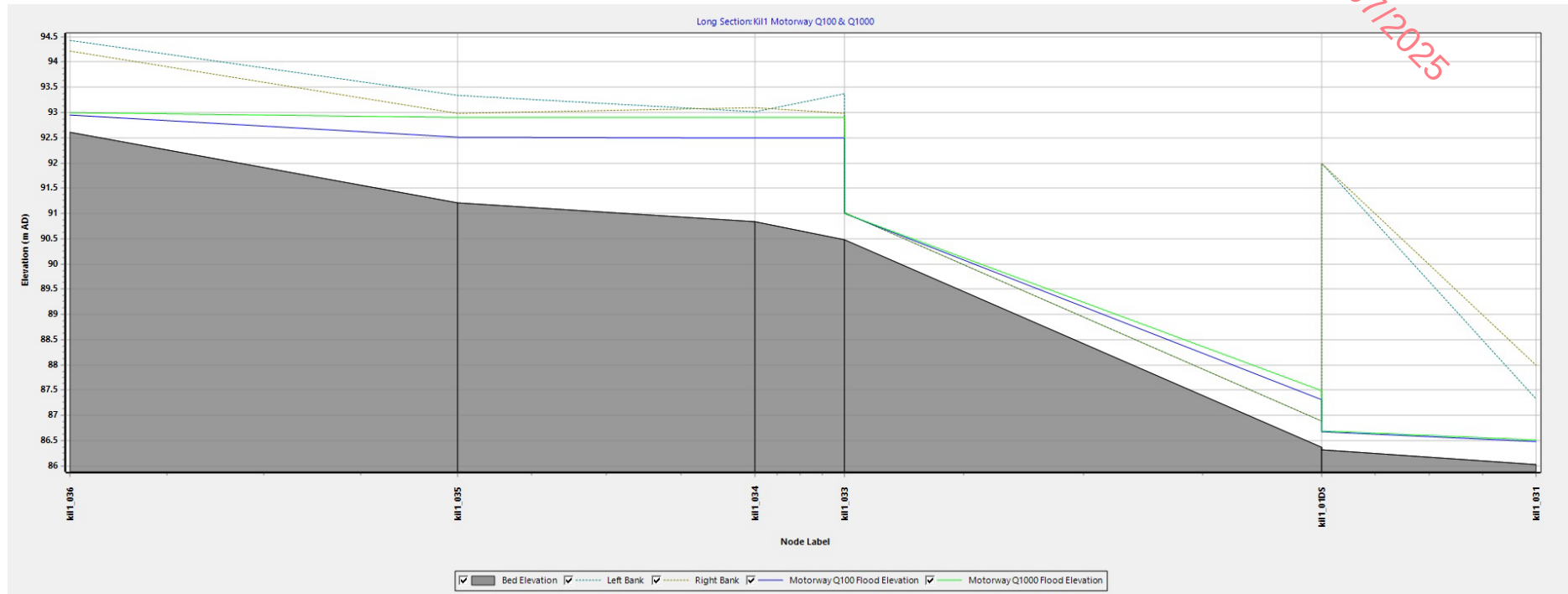
APPENDIX A

LONGITUDINAL PROFILE: KIL1 – DOWNSTREAM OF M6 CULVERT



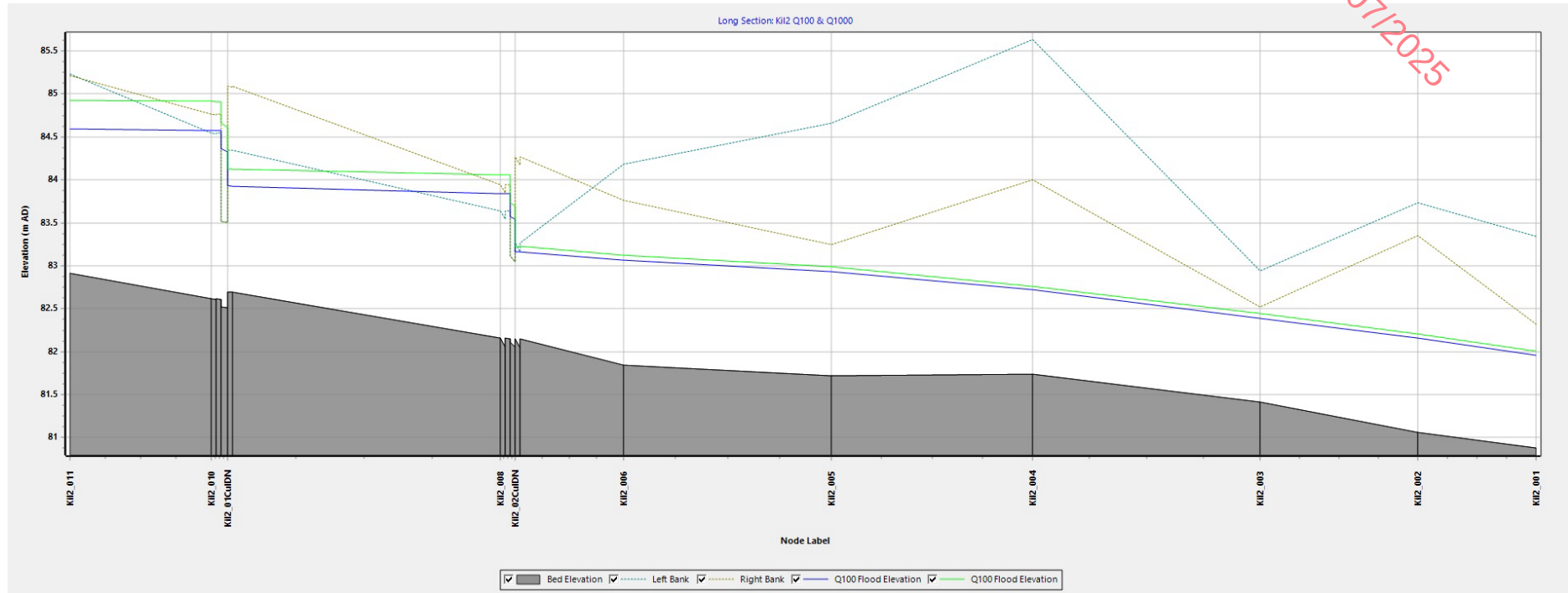
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LONGITUDINAL PROFILE: KIL1 – UPSTREAM OF M6 CULVERT

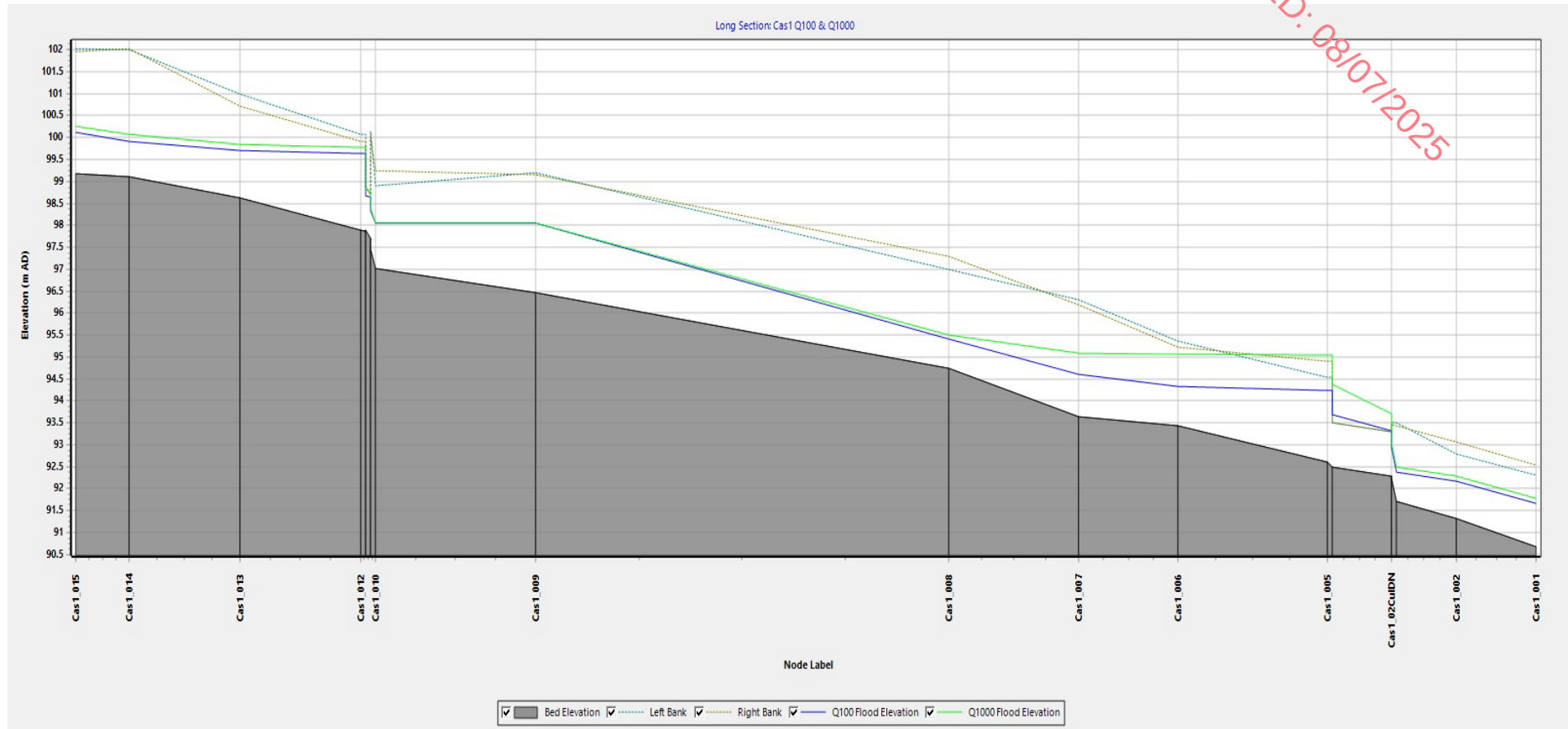


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LONGITUDINAL PROFILE: KIL2

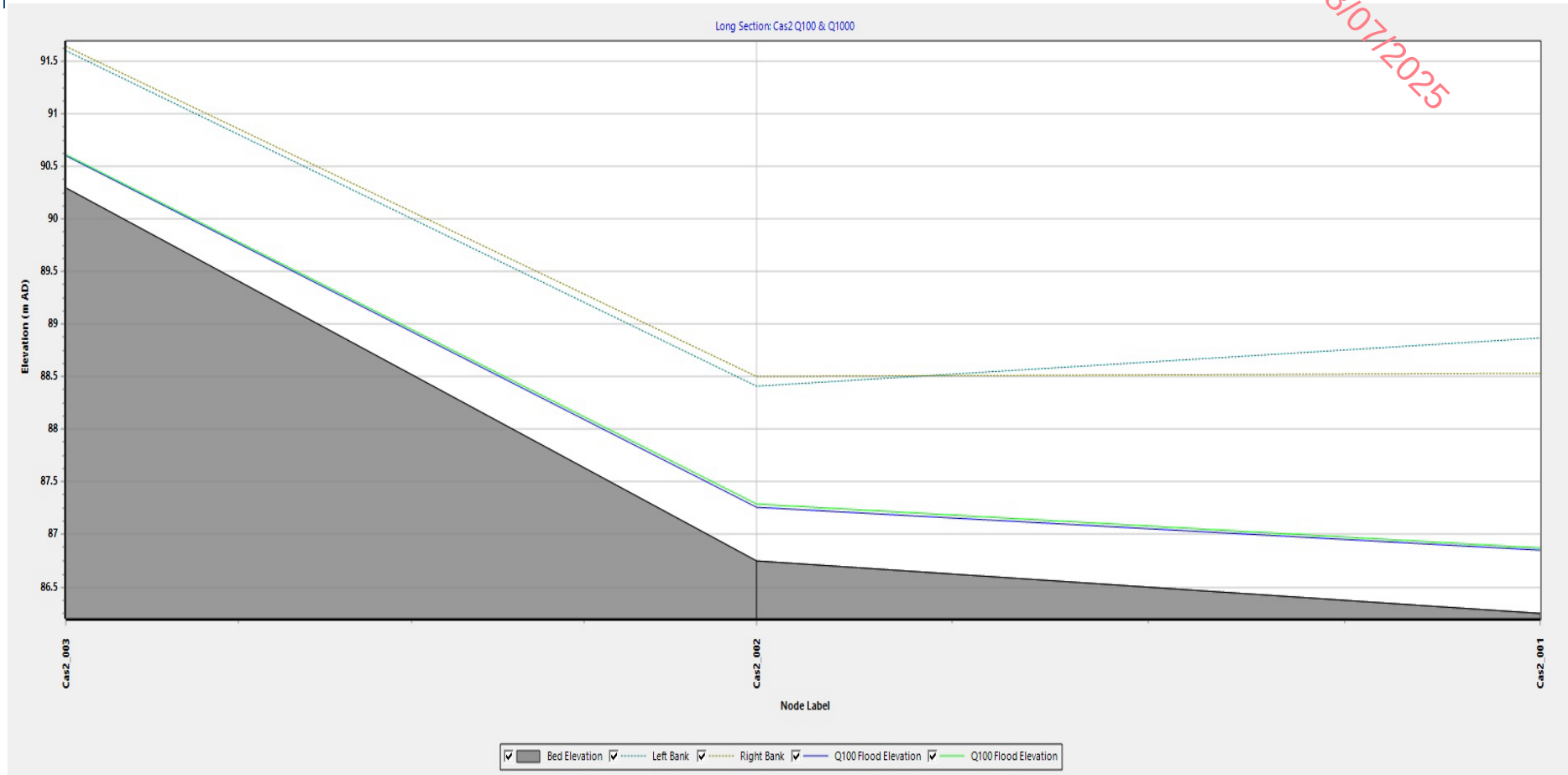


LONGITUDINAL PROFILE: CAS1



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LONGITUDINAL PROFILE: CAS2



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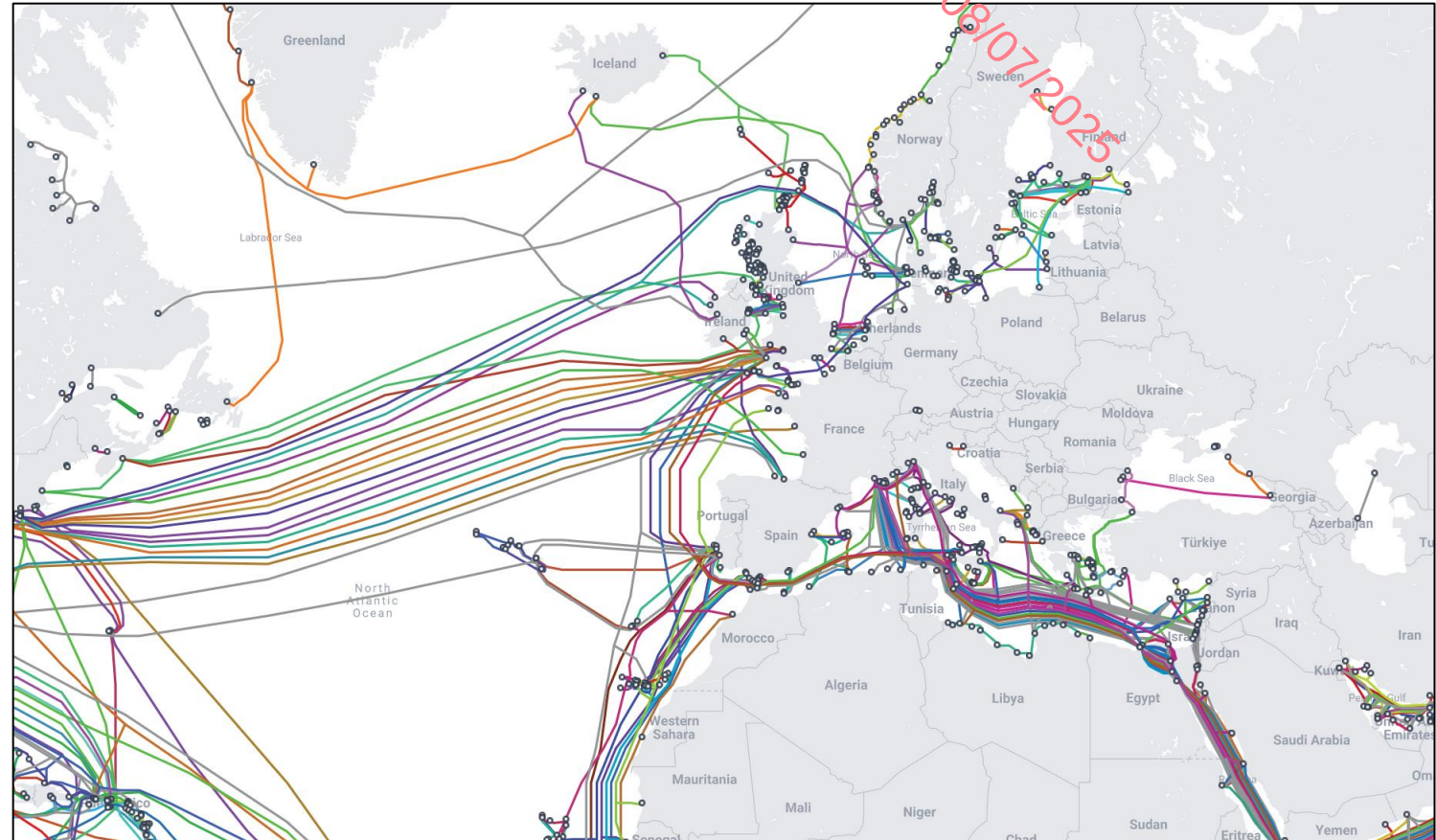
APPENDIX 9.1

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Overview of Telecommunications Infrastructure serving the Red Admiral DC

International submarine Cables

- Ireland is well served by international submarine fibre cables
- Multiple submarine cables connecting Ireland directly (and indirectly) to:
 - United States
 - UK
 - Europe
- Connectivity to international datacentre clusters such as:
 - Frankfurt
 - London
 - Amsterdam
 - Paris
 - New York
 - North Virginia



National Fibre Networks

- Several wholesale fibre networks in Ireland, with some offering dark fibre:
 - Aurora
 - BT Wholesale
 - e net
 - ESB Telecoms
 - Open eir
 - PiPiper
- Networks generally follow the existing transport routes and utility network routes
- Datacentres prefer dark fibre to meet their requirements to control capacity and performance.
- Connection to multiple providers with multiple routes to achieve fully diverse fibre connectivity is also preferred to provide redundancy.

- Examples of wholesale fibre networks:





Dark Fibre connectivity serving the Red Admiral DC site

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- Several dark fibre options available near the site which meet the capacity and performance requirements.
- Aurora
 - Direct private access to low latency high-capacity dark fibre network which runs along the gas pipeline route to the site.
 - Ring network provides diverse fibre routes feeding the Dublin datacentre cluster.
 - Multiple designated fibre pairs available.
- PiPiper
 - Direct private access to low latency high-capacity network which is planned along the M6 motorway to the south of the proposed development.
 - Ring networks provides diverse fibre routes feeding the Dublin datacentre cluster.
 - Multiple designated fibre pairs available.

	Aurora	PiPiper
Direct Access	< 100m	< 50m
Ultra Low Latency	< 1ms	< 1ms
Very High Capacity	> 1 TB/s	> 1 TB/s
Route Diversity	Gas Pipeline	Motorway
Dark Fibre	Yes	Yes
Designated Fibre pair(s)	Multiple	Multiple
Dedicated fibre network	Yes	Yes

Dark Fibre network map at the Red Admiral DC site

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APPENDIX 10.1

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Appendix 10.1

BASELINE AIR QUALITY SURVEY LABORATORY TEST CERTS

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NOx (NO+NO2) Nitrogen oxides measurement by means of passive sampler

customer information

customer: TMS Environment Ltd
customer ID: IDT
contact person: Graham Adams
project: No.1
reference: 2 weeks

passive samplers

date received: 24.04.2025
type: tube (Palms)
pollutant: NOx (NO+NO2)
protective filter: yes
limit of detection: NO: 2.5 ug/m3 (14 days)
NO2: 0.5 ug/m3 (14 days)

analysis

method: SP12-S photometer, Salzmann
analyte: [NO]-
date: 02.05.2025
place: passam ag

test report

created on: 02.05.2025
created by: U. Kunz
checked on: 02.05.2025
checked by: N. Spichtig
file name: IDT12-S-2501
pages: 1



note: applies to the sample as received; results below the detection limit are indicated with "<" and the associated value; this method is accredited to ISO/IEC 17025
measurement uncertainty <30%; sampling rate related to 20 °C; further information at www.passam.ch

measuring site	passive sampler				measuring period			result						Comment on the analysis
	label		lot no.		start		exp. time	m / sampler			Conc			
	NO2	NOx	NO2	NOx	date	time	h	NO ug	NO2 ug	NOx ug	NO ug/m3	NO2 ug/m3	NOx ug/m3	
AS-101	IDT-2	IDT-12	45713	45740	04/04/2025	11:43	333.1	0.06	0.09	0.16	3.4	6.4	9.7	
AS-102	IDT-6	IDT-8	45713	45740	04/04/2025	11:25	333.8	0.20	0.14	0.34	10.3	9.8	20.1	
AS-103	IDT-5	IDT-11	45713	45740	04/04/2025	11:10	335.0	0.05	0.11	0.16	2.8	7.2	10.0	
AS-104	IDT-4	IDT-6	45713	45740	04/04/2025	11:59	333.8	0.11	0.14	0.25	5.8	9.2	15.0	
AS-105	IDT-3	IDT-10	45713	45740	04/04/2025	10:40	335.8	0.11	0.07	0.18	5.7	5.0	10.6	
BLANK	IDT-10	IDT-5	45713	45740	04/04/2025	12:15	334.8	< 0.05	< 0.01	< 0.04	< 2.5	< 0.5	< 2.5	

Sampling information

Annex: Test Report Air Pollution Measurement IDT12-S-2501

passam ag

air quality monitoring

NOx (NO+NO2) Nitrogen oxides measurement by means of passive sampler

measuring site	passive sampler		measuring period				Optional information		
	label	label	start		end		Temp	air pressure	Comment on sampling
	NO2	NOx	date	time	date	time	[°C]	[hPa]	
AS-101	IDT-2	IDT-12	04/04/2025	11:43	18/04/2025	08:47	7	101.2	
AS-102	IDT-6	IDT-8	04/04/2025	11:25	18/04/2025	09:15	7	101.2	
AS-103	IDT-5	IDT-11	04/04/2025	11:10	18/04/2025	10:09	7	101.2	
AS-104	IDT-4	IDT-6	04/04/2025	11:59	18/04/2025	09:44	7	101.2	
AS-105	IDT-3	IDT-10	04/04/2025	10:40	18/04/2025	10:27	7	101.2	
BLANK	IDT-10	IDT-5	04/04/2025	12:15	18/04/2025	11:00	7	101.2	

NOx (NO+NO2) Nitrogen oxides measurement by means of passive sampler

customer information

customer: TMS Environment Ltd
customer ID: IDT
contact person: Graham Adams
project: No.2
reference: 2 weeks

passive samplers

date received: 09.05.2025
type: tube (Palms)
pollutant: NOx (NO+NO2)
protective filter: yes
limit of detection: NO: 2.5 ug/m3 (14 days)
NO2: 0.5 ug/m3 (14 days)

analysis

method: SP12-S photometer, Salzmann
analyte: [NO]-
date: 13.05.2025
place: passam ag

test report

created on: 13.05.2025
created by: N. Sprichtig
checked on: 13.05.2025
checked by: T. Hangartner
file name: IDT12-S-2502
pages: 1



note: applies to the sample as received; results below the detection limit are indicated with "<" and the associated value; this method is accredited to ISO/IEC 17025
measurement uncertainty <30%; sampling rate related to 20 °C; further information at www.passam.ch

measuring site	passive sampler				measuring period			result						Comment on the analysis
	label		lot no.		start		exp. time	m / sampler			Conc			
	NO2	NOx	NO2	NOx	date	time	h	NO ug	NO2 ug	NOx ug	NO ug/m3	NO2 ug/m3	NOx ug/m3	
AS-101	IDT-1	IDT-4	45713	45740	18/04/2025	08:47	336.1	0.06	0.07	0.12	3.0	4.5	7.5	
AS-102	IDT-12	IDT-2	45713	45740	18/04/2025	09:15	336.1	0.08	0.10	0.18	4.4	6.6	11.0	
AS-103	IDT-9	IDT-7	45713	45740	18/04/2025	10:09	336.6	0.09	0.08	0.18	4.8	5.5	10.4	
AS-104	IDT-8	IDT-9	45713	45740	18/04/2025	09:44	336.4	< 0.05	0.09	0.09	< 2.5	6.1	6.1	
AS-105	IDT-7	IDT-3	45713	45740	18/04/2025	10:27	337.1	0.31	0.15	0.46	16.2	10.0	26.2	
BLANK	IDT-11	IDT-1	45713	45740	18/04/2025	11:00	336.7	< 0.05	< 0.01	< 0.04	< 2.5	< 0.5	< 2.5	

Sampling information

Annex: Test Report Air Pollution Measurement IDT12-S-2502

passam ag

air quality monitoring

NOx (NO+NO2) Nitrogen oxides measurement by means of passive sampler

measuring site	passive sampler		measuring period				Optional information		
	label	label	start		end		Temp	air pressure	Comment on sampling
	NO2	NOx	date	time	date	time	[°C]	[hPa]	
AS-101	IDT-1	IDT-4	18/04/2025	08:47	02/05/2025	08:50	10	101.1	
AS-102	IDT-12	IDT-2	18/04/2025	09:15	02/05/2025	09:20	10	101.1	
AS-103	IDT-9	IDT-7	18/04/2025	10:09	02/05/2025	10:43	10	101.1	
AS-104	IDT-8	IDT-9	18/04/2025	09:44	02/05/2025	10:10	10	101.1	
AS-105	IDT-7	IDT-3	18/04/2025	10:27	02/05/2025	11:30	10	101.1	
BLANK	IDT-11	IDT-1	18/04/2025	11:00	02/05/2025	11:40	10	101.1	

NOx (NO+NO2) Nitrogen oxides measurement by means of passive sampler

customer information

customer: TMS Environment Ltd
customer ID: IDT
contact person: Graham Adams
project: No.3
reference: 2 weeks

passive samplers

date received: 20.05.2025
type: tube (Palms)
pollutant: NOx (NO+NO2)
protective filter: yes
limit of detection: NO: 2.5 ug/m3 (14 days)
NO2: 0.5 ug/m3 (14 days)

analysis

method: SP12-S photometer, Salzmann
analyte: [NO]-
date: 27.05.2025
place: passam ag

test report

created on: 28.05.2025
created by: C. Panier
checked on: 28.05.2025
checked by: T. Hangartner
file name: IDT12-S-2503
pages: 1



note: applies to the sample as received; results below the detection limit are indicated with "<" and the associated value; this method is accredited to ISO/IEC 17025
measurement uncertainty <30%; sampling rate related to 20 °C; further information at www.passam.ch

measuring site	passive sampler				measuring period			result						Comment on the analysis
	label		lot no.		start		exp. time	m / sampler			Conc			
	NO2	NOx	NO2	NOx	date	time	h	NO ug	NO2 ug	NOx ug	NO ug/m3	NO2 ug/m3	NOx ug/m3	
AS-101	IDT-16	IDT-16	45713	45755	02/05/2025	10:23	336.2	0.15	0.10	0.25	7.6	7.1	14.7	
AS-102	IDT-13	IDT-13	45713	45755	02/05/2025	10:07	336.2	0.17	0.11	0.28	8.6	7.5	16.1	
AS-103	IDT-14	IDT-14	45713	45755	02/05/2025	09:34	336.2	< 0.05	0.08	0.08	< 2.5	5.7	5.7	
AS-104	IDT-15	IDT-15	45713	45755	02/05/2025	09:52	336.2	0.10	0.08	0.18	5.3	5.3	10.6	
AS-105	IDT-	IDT-	45713	45755	02/05/2025	09:15	336.3							sampler not received
BLANK	IDT-17	IDT-17	45713	45755	02/05/2025	11:00	336.0	< 0.05	< 0.01	< 0.04	< 2.5	< 0.5	< 2.5	

Sampling information

Annex: Test Report Air Pollution Measurement IDT12-S-2503

NOx (NO+NO2) Nitrogen oxides measurement by means of passive sampler

measuring site	passive sampler		measuring period				Optional information		
	label	label	start		end		Temp	air pressure	Comment on sampling
	NO2	NOx	date	time	date	time	[°C]	[hPa]	
AS-101	IDT-16	IDT-16	02/05/2025	10:23	16/05/2025	10:33	15	1016	N/A
AS-102	IDT-13	IDT-13	02/05/2025	10:07	16/05/2025	10:18	15	1016	N/A
AS-103	IDT-14	IDT-14	02/05/2025	09:34	16/05/2025	09:47	15	1016	N/A
AS-104	IDT-15	IDT-15	02/05/2025	09:52	16/05/2025	10:06	15	1016	N/A
AS-105	IDT-	IDT-	02/05/2025	09:15	16/05/2025	09:35	15	1016	Tubes vandalised or stolen
BLANK	IDT-17	IDT-17	02/05/2025	11:00	16/05/2025	11:00	15	1016	N/A

APPENDIX 10.2

RECEIVED: 08/07/2025

Appendix 10.2

AIR QUALITY IMPACT ASSESSMENT DISPERSION MODELLING REPORT

RECEIVED: 08/07/2025





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***DISPERSION MODELLING ASSESSMENT OF AIR QUALITY IMPACTS
OF PROPOSED DATA CENTER AND DECENTRALISED ENERGY RESOURCE
AT
CASTLELOST***

Report Ref. 34469-2

TMS Environment Ltd.

June 2025

Approved By:

Imelda Shanahan

Dr Imelda Shanahan

Technical Manager

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1.0 INTRODUCTION AND SCOPE

This report deals with an assessment of the potential impacts on air quality of emission to atmosphere from the proposed Data Centre facility at Castlelost. The purpose of the report is to provide information in relation to the quantitative assessment of air quality impacts associated with the emissions from the facility. The report presents the results of air quality dispersion modelling to evaluate the impact of potential emissions from the facility on ambient air quality, human health and ecosystems.

2.0 DESCRIPTION OF PROCESS AND SOURCES OF EMISSIONS TO ATMOSPHERE

2.1 Site location and layout

The facility is located on lands at Collinstown Oldtown, Co. Westmeath. The general layout of the site is shown in Figure 2.1 which shows the final layout. The facility will be constructed in phases over 5 years.

2.2 Process Description

The proposed development will consist of a Data Centre, which will be constructed and secured within a 48ha site which includes six two-storey data halls – each 225m(l) x 65m(w) x 22m(h), and a Decentralised Energy Resource (DER), which will be constructed across 192ha and comprise a number of power assets which will provide, store and manage electricity close to the Data Centre rather than relying on the existing electricity network. A detailed description of the proposed development is presented in Chapter 2 of this EIAR.

The DER comprises the following assets:

1. Solid Oxide Fuel Cell (SOFC) Power System (hereafter referred to as Fuel Cell),
2. Battery Energy Storage System (BESS),
3. Solar PV installation, and
4. Grid connection.

The proposed development to be located on a 240-hectare (ha) site which is greenfield and currently in agricultural use.

2.2 Sources and characteristics of emissions to atmosphere

The most significant potential impacts remain the same as those associated with existing activities at and in the vicinity of the site - emissions of particulate matter and combustion gases such as carbon monoxide (CO), sulfur dioxide (SO₂) and nitrogen oxides (NO₂) from traffic. There is no combustion process associated with the proposed SOFC and therefore emissions to atmosphere are negligible. There are six fuel cell towers from which a small amount of nitrogen oxides is released, the amount being proportional to the power output of the plant.

There is a 1MW generator that will operate for less than 100 hours per year. The operation will be to ensure ongoing operability in the event of an emergency requirement. There are emissions of particulate matter and combustion gases such as carbon monoxide (CO), sulfur dioxide (SO₂) and nitrogen oxides (NO₂) associated with operation of the generator.

There are no emissions to atmosphere associated with operation of the Battery Energy Storage System (BESS) or the solar farm.

The emissions to atmosphere arise due to the combustion process for the emergency generator and as a by-product of the fuel cell activity. The generator may be required in emergency situations to provide power in the event of an emergency; their operation is therefore very limited and will not exceed 100 hours per year.

The dispersion model considered the following operating scenario.

(i) Operating Scenario: Normal Operation at full load

A conservative assumption of 100 operating hours per year was made for the emergency generator. An assumption of 2 hours operation per week during the morning (06:00 – 08:00) or evening (16:00 – 19:00) peak demand periods was made.

Continuous operation of the fuel cells with a low level emission of NO_x was assumed. For this scenario, 1.4MkWhr/year results in a low emission rate of 1.081 tonne NO_x emitted per year.

(ii) Operating Scenario: Normal Operation at 10% base load and intermittent full load

A conservative assumption of 100 operating hours per year was made for the emergency generator. An assumption of 2 hours operation per week during the morning (06:00 – 08:00) or evening (16:00 – 19:00) peak demand periods was made.

Continuous operation of the fuel cells with a low level emission of NO_x was assumed. For this scenario, 10% baseload operation and intermittent full load for ca 50% of the time was assumed. This scenario results in a low emission rate of 0.594 tonne NO_x emitted per year.

The only pollutant of concern is NO₂ and NO_x so these pollutants are modelled due to the potential impact on ambient air quality and the ecological environment. The emissions from the emergency generator are insignificant given the very limited operating hours so only nitrogen dioxide and nitrogen oxides from the generator are modelled due to the potential for cumulative impacts with the low level emissions from the fuel cell.

3.0 AIR QUALITY IMPACT ASSESSMENT METHODOLOGY

3.1 Impact assessment methodology

The impact of emissions to atmosphere on air quality is assessed using a dispersion modelling assessment approach. This approach involves computation of predicted incremental contributions to ground level concentrations of pollutants over defined averaging intervals as a result of emissions from the combustion plant. The predictions are then compared with relevant Air Quality Standards to determine whether the impact on air quality meets the requirements of the Standards. The general approach is summarised as follows:

- Review of local air quality data in the area surrounding the site;
- Review of the nearest building arrangements and locations of human receptors in the area;
- Identification of non-statutory ecological receptors within 2 km of the site and statutory ecological receptors within 15 km of the site;
- Dispersion modelling of combustion plant emissions to predict process contributions (PCs) at identified sensitive receptors for comparison against relevant Air Quality Standards;

Guidance on air emissions risk assessments was published by the UK Government for developments which require an environmental permit under the Environmental Permitting (as Amended) Regulations 2016 (EPR). For those emissions that cannot be screened out the guidance states that detailed modelling must be carried out of the emissions. The screening assessment screened out emissions of particulate matter (including PM₁₀ and PM_{2.5}), carbon

monoxide and sulfur dioxide as insignificant. Nitrogen oxides were considered relevant as they are regulated pollutants and a detailed dispersion modelling assessment was carried out for those pollutants.

Guidance has also been issued by the EPA in the AG4 Guidance Note and this Guidance was followed in the assessment.

3.2 Impact assessment criteria

The assessment of impact significance is based on a comparison of predicted impacts with air quality standards and guidelines, and consideration of the magnitude and duration of the potential impact.

Air Quality Standards in Ireland have been defined to ensure compliance with EC Directives; they are developed at different levels for different purposes. European legislation on air quality has been framed in terms of two categories, limit values and guide values. Limit values are concentrations that cannot be exceeded and are based on WHO guidelines for the protection of human health. Guide values are set as a long-term precautionary measure for the protection of human health and the environment. The WHO guidelines differ from EU air quality standards in that they are primarily set to protect public health from the effects of air pollution, whereas Air Quality Standards are recommended by governments, and other factors such as socio-economic factors, may be considered in setting the standards.

Directive 2008/50/EC of the European Parliament and of the Council of 21 May 2008 on ambient air quality and cleaner air for Europe (Clean Air for Europe Directive) is an amalgamation of Council Directive 96/62/EC of 27 September 1996 on ambient air quality assessment and management (Air Quality Framework Directive) and its subsequent daughter Directives and sets out limit and target values for named air quality parameters. The Clean Air for Europe Directive was transposed into Irish legislation by the Ambient Air Quality Standards Regulations 2022 (S.I. No. 739 of 2022) published on January 10th, 2023. Directive 2004/107/EC of the European Parliament and of the Council of 15 December 2004 relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air (Fourth Daughter Directive) was transposed into Irish legislation by the Arsenic, Cadmium,

Mercury, Nickel and Polycyclic Aromatic Hydrocarbons in Ambient Air Quality Standards Regulations 2022 (S.I. No. 739 of 2022). These Directives and the Irish Regulations set out the main standards against which the potential impacts of the proposed project on air quality are assessed, as summarised in Table 3.1.

In addition to the Ambient Air Quality Standards Regulations 2022 and the Clean Air for Europe Directive standards, it is also appropriate to consider the WHO Guidelines. These Guidelines were developed by the WHO to provide appropriate air quality targets worldwide, based on the latest health information available. The air quality guidelines for PM₁₀, NO₂ and SO₂, and PM_{2.5} are considered in this Chapter. While the WHO Guidelines are not mandatory, they represent the current informed opinion on the levels to which we should be aspiring in order to minimise the adverse health impacts of air pollution. The WHO guidelines referenced in this report are summarised in Table 3.2. The potential impact of the emissions on ecosystems is considered using the gaseous nitrogen oxides concentration. An Air Quality Standard expressed in concentration terms has been defined for the protection of vegetation and this standard is one of the benchmarks against which the impact of the facility is assessed.

The potential impact of nitrogen deposition in sensitive ecosystems was evaluated by comparing the modelled nitrogen deposition rate with the critical loads for the relevant habitat. The most sensitive habitat for this purpose is bog ecosystems and a recommendation of 5kg N ha⁻¹ year⁻¹ has been made as the critical load for habitat protection [UNECE 5 – 10 kg N ha⁻¹ year⁻¹ and EPA Research Report 390: Nitrogen–Sulfur Critical Loads: Assessment of the Impacts of Air Pollution on Habitats (2016-CCRP-MS.43) 5kg N ha⁻¹ year⁻¹].

3.3 Dispersion Model Selection

Computerised mathematical dispersion models are used to predict the incremental additions to ground level concentrations of relevant criteria pollutants as a result of emissions from a given development. A detailed modelling assessment was undertaken using the US EPA Model AERMOD Prime, AERMOD, which is the current regulatory version of this Model. AERMOD is currently the most widely used air quality modelling tool and has been widely used in studies of this type in relation to regulated facilities.

The model computes average ground-level concentrations of pollutants emitted from either elevated or ground-level emission sources. Separate utilities associated with the dispersion

modelling software allow computation of ground-level concentrations of pollutants over defined statistical averaging periods, and additional features permit suitable consideration to be given to building downwash effects and the effects of elevated terrain in the vicinity of the plant.

Table 3.1 Air Quality Standards Regulations 2011 (based on EU Clean Air For Europe [CAFE] Directive 2008/50/EC)

Pollutant	EU Regulation	Limit Type	Margin of Tolerance	Value
Nitrogen Dioxide	2008/50/EC	Hourly limit for protection of human health - not to be exceeded more than 18 times/year	None	200 µg/m ³ NO ₂
		Annual limit for protection of human health	None	40 µg/m ³ NO ₂
		Annual limit for protection of vegetation	None	30 µg/m ³ NO + NO ₂
Sulfur Dioxide	2008/50/EC	Hourly limit for protection of human health - not to be exceeded more than 24 times/year	150 µg/m ³	350 µg/m ³
		Daily limit for protection of human health - not to be exceeded more than 3 times/year	None	125 µg/m ³
		Annual & Winter limit for the protection of human health and ecosystems	None	20 µg/m ³
Particulate Matter (as PM ₁₀)	2008/50/EC	24-hour limit for protection of human health - not to be exceeded more than 35 times/year	50%	50 µg/m ³
		Annual limit for protection of human health	20%	40 µg/m ³
Particulate Matter (as PM _{2.5})	2008/50/EC	Annual limit for protection of human health (Stage 1)	20% from June 2008. Decreasing linearly to 0% by 2015	25 µg/m ³
		Annual limit for protection of human health (Stage 2)	None To be achieved by 2020	20 µg/m ³
Carbon Monoxide	2008/50/EC	8-hour limit (on a rolling basis) for protection of human health	60%	10 mg/m ³ (8.6 ppm)

NOTE

The Air Quality Standards Regulations 2011 (SI 180 of 2011) transposed EU Directive 2008/50/EC (CAFE) into Irish law.

Table 3.2 WHO Air Quality Standards

Pollutant	Limit Type	Value
Nitrogen Dioxide	Hourly limit for protection of human health	200 $\mu\text{g}/\text{m}^3$
	Annual limit for protection of human health	10 $\mu\text{g}/\text{m}^3$
Sulfur Dioxide	Daily limit for protection of human health	40 $\mu\text{g}/\text{m}^3$
	10-minute limit for protection of human health	500 $\mu\text{g}/\text{m}^3$
Particulate matter (as PM_{10})	24-hour limit for protection of human health	45 $\mu\text{g}/\text{m}^3$
	Annual limit for protection of human health	15 $\mu\text{g}/\text{m}^3$
Particulate matter (as $\text{PM}_{2.5}$)	24-hour limit for protection of human health	15 $\mu\text{g}/\text{m}^3$
	Annual limit for protection of human health	5 $\mu\text{g}/\text{m}^3$
Carbon Monoxide (CO)	8-hour limit for protection of human health	10,000 $\mu\text{g}/\text{m}^3$
	1-hour limit for protection of human health	35,000 $\mu\text{g}/\text{m}^3$
	15-minute limit for protection of human health	100 mg/m^3

3.4 Dispersion Model Assumptions and Limitations

The inherent assumptions of the dispersion Model and associated limitations are summarised as follows.

- The model is based on a five-year meteorological dataset collected from the nearest meteorological stations. Since the meteorological data are not collected at the specific facility location being assessed, this is a limitation of the Model. This is not a significant factor for the current study as the data was sourced from a nearby recording station which is considered representative of the site.
- The model assumes steady-state meteorological conditions that are invariant over the entire model space for each hour modelled, and as such, has reduced accuracy in areas where significant variations in meteorological conditions exist. For instance, AERMOD cannot be used to incorporate highly variable wind patterns caused by changes in terrain elevations, and modelling across complex terrains may result in over-predictions. This is not a significant factor for the current study.
- AERMOD is the Gaussian model recommended by the US EPA for short-range transport of pollutants, up to 50 km from the source. At distances beyond 50 km, steady-state Gaussian plume models like AERMOD tend to over-estimate pollutant ground concentrations, because the model maintains constant wind patterns that are unlikely to persist over long distances. This is not considered significant for the current study due to the relatively low stack height and emission rates and the anticipated dispersion pattern.
- The model cannot be used to model reactive pollutants (e.g., ozone). This is not significant for the current study.

An evaluation of the impact of these limitations concluded that there is no significant adverse impact on the reliability of the Model for the current study.

3.5 Dispersion Modelling Protocol

3.5.1 Dispersion Model Inputs

Evaluation of the impact of a proposed development on air quality using dispersion modelling requires information on the following:

- Emissions characteristics
- Site layout and topography
- Meteorological data
- Averaging intervals
- Receptor locations

Of these, the most significant input parameters are the emissions characteristics and the site layout and topography and surrounding terrain features.

3.5.2 Emissions Characteristics and special treatments

Emission characteristics predicted for the emission sources are summarised in Section 2.2. Information on dimensions and physical characteristics of the main emission sources was obtained from the developer and from a consideration of the nature and scale of the processes that will be carried out at the plant, the chemical composition of the fuels, information supplied by the manufacturers of the plant, and consideration of the levels of emissions that would normally be expected from a plant of this type.

The worst possible emissions scenario is one where the maximum permissible emission rates from the plant occur. For the purposes of modelling and air quality impact assessment, the maximum possible emission values were used in accordance with relevant Guidance. Best practice guidance requires that the impact assessment must represent a worst-case emissions scenario, thereby determining the maximum potential impact of plant emissions on ground level concentrations of pollutants in the vicinity of the plant. The only pollutant of significance is nitrogen oxides and this is what was modelled in the assessment.

In most combustion processes, NO_x is emitted almost totally in the form of nitric oxide (NO). Nitrogen oxides are very reactive and also contribute, due to the formation of nitrogen dioxide from nitric oxide, to the phenomenon of photochemical ozone formation. These transformations are generally of greatest concern in the areas where the highest ozone

concentrations occur – for example, in rural areas in late afternoon in summer time. Unless photochemical dispersion models are used for the assessment of impacts associated with the release of nitrogen oxides from point emissions sources, then assumptions must be made regarding the rate and extent of conversion of NO to NO₂. For the current study, Guidance from the EPA taken from the Air Dispersion Modelling Guidance Note AG4 was followed whereby default annual ratio of 1.00 and a default 1-hour NO₂/NO_x ratio of 0.50 was used for the conversion of NO_x to NO₂.

The EPA Guidance notes that a site-specific ratio at the point of maximum concentration may be used if extensive continuous monitoring data (one-year or greater) is available at this location, but the site-specific ratio will only be valid for locations which are a similar distance from the source as the monitoring station. The limited on-site data suggests a ratio close to 1 for the long term data which is consistent with the EPA default values.

3.5.3 Site Layout and Topography

The layout and area of the site and the dimensions of the various buildings on site were taken from the drawings of the site. Topographical information was obtained from a site survey and from Ordnance Survey maps and from digital terrain data. Building downwash effects might be expected as a result of the proximity of the buildings on site to the plant stack. These effects were modelled using the modelling facility, BPIP, which is part of the AERMOD modelling suite.

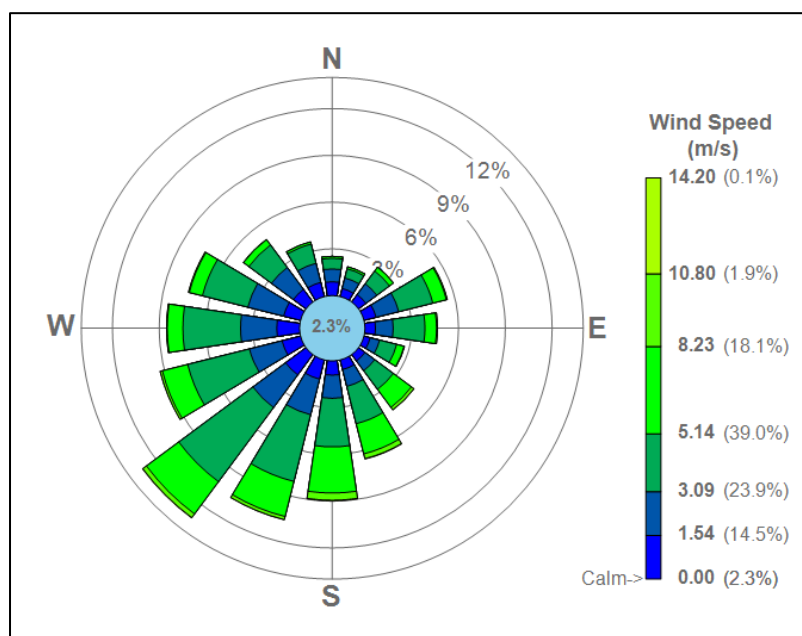
The presence of complex terrain features can lead to significantly higher ambient concentrations than would occur in the absence of terrain features, especially if there is a significant relative difference in elevation between the source and off-site receptors. International Guidance suggests that when modelling in a region of flat terrain, no digital mapping of terrain will be necessary. General guidance is that digital mapping of terrain should be conducted where terrain features are greater than 10% of the effective stack height within 5km of the stack (for effective stack heights of 100m or less). From a review it is concluded that digital terrain data is required to ensure that a reliable assessment is completed. This data was acquired and used in the dispersion model.

3.5.4 Meteorological Data

The magnitude of potential impacts of emissions from the facility will be substantially influenced by the local meteorological conditions, in particular by wind speed and direction and also by precipitation rates. Comprehensive monitoring data is available for Mullingar which is located approximately 16km north of the facility. The wind roses are presented in Appendix II and a representative windrose for 2016 - 2020 is shown in Figure 3.1. The dominant wind direction is from the south west quadrant.

For the purpose of obtaining information about the climatological conditions at the site, five years of meteorological data for the period 2016 - 2020 was analysed. This data was selected for use in the dispersion modelling study for the facility, and is expected to be a reliable indicator of conditions at the site. Analysis of the monitoring data shows that the dominant wind direction is from the S-SW-W quadrant, with in excess of 50% of wind directions in this quadrant. Individual Windroses for each of the years 2016 - 2020 are presented in Appendix II.

Figure 3.1 2016 - 2020 composite Windrose for Mullingar



3.5.5 Averaging Intervals

The dispersion model was used to predict the incremental additions to ground level concentrations of the main pollutants emitted from the plant over defined averaging periods. These averaging periods were chosen to allow direct comparison of predicted ground level concentrations with the relevant assessment criteria as outlined in Table 3.5. In particular, 15-hour, 24-hour and annual average ground level concentrations (GLCs) of various pollutants were calculated at various distances from the site; percentiles of these average GLCs were also computed for comparison with the relevant Air Quality Standards.

3.5.6 Receptor Locations

Two nested uniform cartesian receptor grids centred on the site were used for the modelling domain as follows:

- A coarse outer grid of 15 km x 15 km of receptors with a spacing of 250 meters was used to cover the whole study area
- A fine inner grid of 4 km x 4 km of 6,561 receptors (81 x 81 receptors with a spacing of 50 meters) was used to better characterise the zones where the maximum predicted air quality impact from the Project emissions are expected.

In line with expectations, the highest predicted ground level concentrations occur at the receptors closer to the source.

Sensitive receptors in the vicinity of the plant were also input to the Model to evaluate the impact on air quality at those sensitive locations. These sensitive receptors are shown in Figure 3.2.

3.6 Background ambient air quality

The site is located in agricultural fields immediately south west of Rochfortbridge. The M6 Motorway runs east-west along the southern boundary of the site. The dominant influences on air quality in the area are emissions from domestic heating and traffic. Emissions from traffic sources are expected to be the principal contributors to ambient air quality in the vicinity of the site.

The main substances which are of interest in terms of existing air quality are sulfur dioxide, nitrogen oxides (nitric oxide, NO and nitrogen dioxide NO₂, collectively referred to as NO_x), fine particulate matter including PM₁₀ and PM_{2.5} which could originate from combustion sources and traffic. Carbon monoxide is also potentially of interest, and benzene may also be of interest from traffic sources. There are no significant new substances expected to be present in emissions released from the proposed development relative to the existing situation.

A description of existing levels of the various substances in ambient air is required to allow completion of the evaluation of air quality impacts associated with the development. The available data from the National Ambient Air Quality Network is a reliable data set for consideration in this study.

The Environmental Protection Agency (EPA) and local authorities maintain and operate a number of ambient air quality monitoring stations throughout Ireland in order to implement EU Directives and to assess the country's compliance with national air quality standards. Ireland's small population and generally good air quality means that a relatively small number of monitoring stations are sufficient across the country for the purposes of implementing the EU Air Directives. For ambient air quality management and monitoring in Ireland, four zones, A, B, C and D are defined in the Ambient Air Quality Standards (AQS) Regulations (S.I. No. 739 of 2022) and are defined as follows:

- Zone A: Dublin Conurbation.
- Zone B: Cork Conurbation.
- Zone C: 24 cities and large towns. Includes Limerick, Galway, Waterford, Drogheda, Dundalk, Bray, Navan, Ennis, Tralee, Kilkenny, Carlow, Naas, Sligo, Newbridge, Mullingar, Wexford, Letterkenny, Athlone, Celbridge, Clonmel, Balbriggan, Greystones, Leixlip and Portlaoise.
- Zone D Rural Ireland, i.e. the remainder of the State excluding Zones A, B & C.

The Proposed Development site is located within County Westmeath and Air Quality Data from representative air monitoring stations in Zone D are therefore considered representative

of air quality at the subject site. The EPA publishes Ambient Air Quality Reports every year which details the air quality in each of the four zones. The most recent report, published by the EPA in 2024, is the Air Quality in Ireland 2023, which contains monitoring data collected during 2023. Best practice requires that an average of at least three years of recent monitoring data is used for assessments of this type and therefore data from 2021 to 2023 has been reviewed.

The EPA maintains monitoring stations in a number of rural locations including Castlebar, Claremorris, Emo, Enniscorthy, Kilkitt and Longford to monitor rural background air quality. Other monitoring stations have operated at various times and some new stations have been added to the network, but long-term data is available for the above stations. Data from the Air Quality Monitoring Annual reports for 2021 to 2023 was reviewed and a summary of the data for representative stations for the three most recent years is presented for each parameter of interest in Table 3.3.

The approach taken is to take the average of the three most recent years for each of the Zone D rural stations detailed above and the averages of the values for the stations are reported in Table 3.3. This is the data set which is used in the assessment of the potential impact of the proposed development on air quality. A graphical presentation comparing the data with the relevant Air Quality Standards (discussed further below) is presented in Figure 3.2.

It is noted from the data that existing ambient air quality is good for all health-related pollutants. All concentration levels are well within the EU Standards for all parameters of interest.

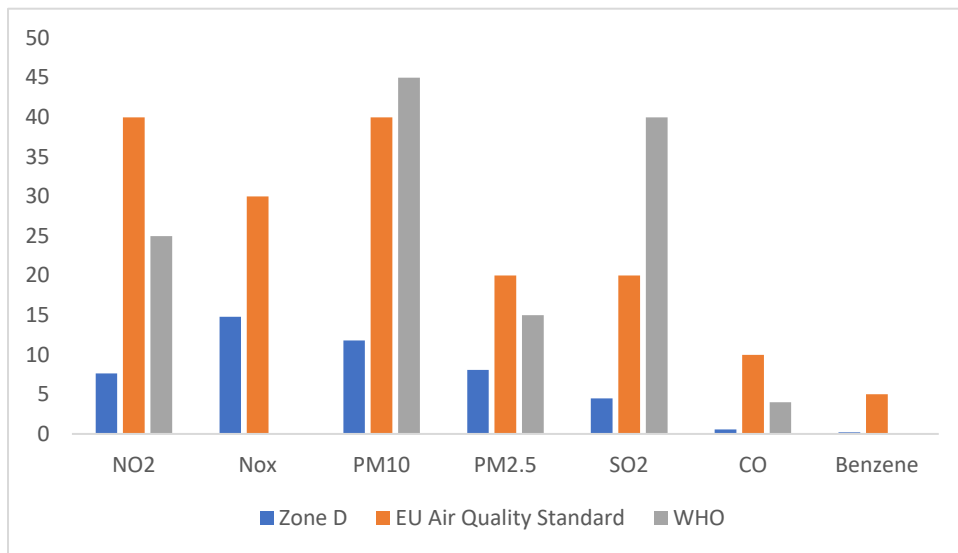
Table 3.3: Summary Background Air Quality for Stations in Zone D (2021-2023)

Data Set	Parameter and Averaging Interval		Concentration µg/m³
Rural Ireland (Zone D)	Nitrogen dioxide NO ₂	Annual Mean, µg/m ³	7.7
Rural Ireland (Zone D)	Nitrogen oxides, NO _x	Annual Mean, µg/m ³	14.8
Rural Ireland (Zone D)	Particulate Matter PM ₁₀	Annual Mean, µg/m ³	11.8
Rural Ireland (Zone D)	Particulate Matter PM _{2.5}	Annual Mean, µg/m ³	8.1
Rural Ireland (Zone D)	Sulfur dioxide, SO ₂	Annual Mean, µg/m ³	4.5
Rural Ireland (Zone D)	Carbon Monoxide CO	Annual Mean 8- hour, mg/m ³	0.6
Kilkenny (Zone C) ²	Benzene	Annual Mean, µg/m ³	0.2

NOTE

1. Data summarised from the EPA Annual Ambient Air Quality Monitoring Reports 2021 to 2023.
2. No Zone D measurements recorded during this interval but a value of 0.2 µg/m³ was recorded for Zone C.

Figure 3.2: Comparison of Zone D Background Air Quality Data with Ambient Air Quality Standards



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4.0 DISPERSION MODELLING PREDICTIONS

4.1 Modelling predictions

Model executions were completed to assess the incremental additions to ground level concentrations of NO₂ and NO_x over specified averaging intervals to allow comparison of the predictions with the relevant Air Quality Standards, which have been defined for all of these pollutants as set out in Table 3. These pollutants have been selected as a screening analysis identified these as the most sensitive parameters for assessing the impact on air quality of the emissions.

4.2 Assessment of air quality impact on human health

A summary of the dispersion modelling results for the maximum predicted Process Contributions using the worst case meteorological year is presented in Table 4.1. The results are presented for the worst case operating scenario. The most sensitive pollutant is nitrogen dioxide so the detailed discussion presented here is for nitrogen dioxide. All other substances are emitted at lower concentrations and the impacts are insignificant.

The modelling predictions show that the predicted concentrations are all significantly lower than the relevant air quality standard. For the most sensitive pollutant, nitrogen dioxide, the predicted ambient concentrations expressed as the Process Contribution for the 99.8-percentile of 1-hour concentrations will not exceed 0.1% of the air quality standard.

The cumulative air quality impact expressed in terms of the Predicted Environmental Concentration (PEC) is assessed by considering the background air quality in the area and the incremental contribution to ambient concentrations from the proposed process. The modelling predictions indicate that the cumulative impact of the operation of the facility with existing activities will not exceed the Air Quality Standards. The highest predicted Process Contributions (PCs) are close to the facility with concentrations reducing with distance from the source as expected.

Table 4.1 Predicted NO₂ concentrations for Normal Operation (Scenario #1)

Met data	Averaging interval	Process Contribution (PC) µg/m ³	Background concentration µg/m ³	Predicted Environmental Concentration (PEC) µg/m ³	Air Quality Standard µg/m ³	PC as % of Air Quality Standard
2016	99.8 th %ile of 1-hour means	0.21	15.4	15.6	200	0.1
	Annual mean	0.11	7.7	7.8	40	0.3
2017	99.8 th %ile of 1-hour means	0.22	15.4	15.6	200	0.1
	Annual mean	0.11	7.7	7.8	40	0.3
2018	99.8 th %ile of 1-hour means	0.22	15.4	15.6	200	0.1
	Annual mean	0.12	7.7	7.8	40	0.3
2019	99.8 th %ile of 1-hour means	0.27	15.4	15.7	200	0.1
	Annual mean	0.11	7.7	7.8	40	0.3
2020	99.8 th %ile of 1-hour means	0.20	15.4	15.6	200	0.1
	Annual mean	0.13	7.7	7.8	40	0.3

NOTE

The background concentration is the annual mean when evaluating annual or daily predictions.
The background concentration is twice the annual mean when evaluating hourly predictions.

4.3 Impact of emissions to atmosphere on ecosystems

The impact of nitrogen oxides (NO_x) emissions on sensitive ecosystems was assessed by modelling the NO_x emissions from the worst case operating scenario with maximum emissions. The impact predictions are presented in Table 4.2.

The assessment of impact is based on consideration of the predicted ground level airborne concentration of nitrogen oxides on the environment and on designated ecological sites as well as considering the impact of nitrogen deposition on the environment and on designated ecological sites. One element of the assessment considered all receptors outside the site boundary regardless of designated status, and the second element of the assessment considered the designated sites specifically.

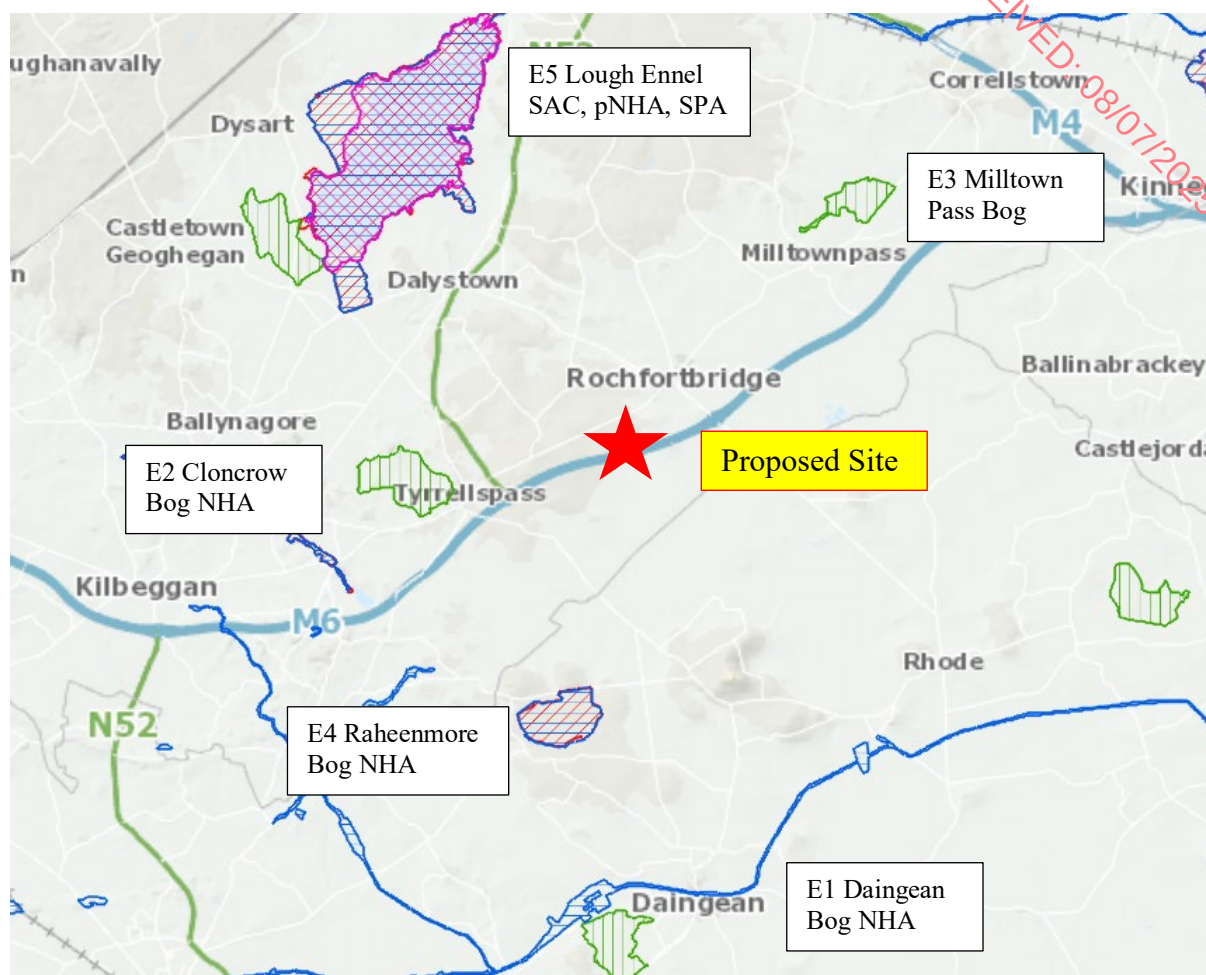
Designated ecological sites within 15km of the site were identified and included in the assessment. There were five designated ecological sites selected for inclusion in the assessment as follows and as shown in Figure 4.1:

- E1 Daingean Bog NHA;
- E2 Cloncrow Bog NHA;
- E3 Milltown Pass Bog NHA;
- E4 Raheenmore Bog SAC, pNHA;
- E5 Lough Ennel SAC, SPA, pNHA;

Receptors within these designated sites were included in the dispersion modelling assessments. The maximum predicted Process Contributions are considered with the background concentrations to arrive at a PEC. The background concentration selected is for the areas closest to the site where maximum predicted PCs arise which is likely to be conservative given the surrounding land uses and the dominating influence of traffic from the motorway on ambient air quality.

The impact predictions for the concentration of nitrogen oxides in air at ground level are presented in Table 4.2. The predictions are the highest concentrations predicted at any location at the ecological sites .

Figure 4.1 Ecological receptors for detailed study



The maximum predicted Process Contributions are considered with the background concentrations to arrive at a Predicted Environmental Concentration (PEC). The background concentration selected is for the areas closest to the site where maximum predicted Process Contributions (PCs) arise which is likely to be conservative given the surrounding land uses and the dominating influence of traffic from the motorway on ambient air quality.

The results indicate that the cumulative impact of the proposed development with existing activities will not exceed the air quality standard of $30 \mu\text{g}/\text{m}^3$ expressed as an annual mean for ground level concentration of NO_x . The results therefore indicate that the emissions from the facility will not exert a significant adverse impact on any receptor outside the site boundary or, specifically, any designated ecosystems. The maximum predicted process contribution to ground level concentration as a result of the proposed development is 1% of the Air Quality

Standard for full time operation at any ecological receptor.

Table 4.2 Predicted NO_x concentrations for Worst Case Operation

Meteorological data	Averaging interval	Process Contribution (PC) µg/m ³	Background concentration µg/m ³	Predicted Environmental Concentration (PEC) µg/m ³	Air Quality Standard µg/m ³	PC as % of Air Quality Standard
2016	Annual mean	0.11	14.8	14.9	30	1.1
2017	Annual mean	0.11	14.8	14.9	30	1.1
2018	Annual mean	0.12	14.8	14.9	30	1.1
2019	Annual mean	0.11	14.8	14.9	30	1.1
2020	Annual mean	0.13	14.8	14.9	30	1.1

NOTE

The background concentration is the annual mean when evaluating annual or daily predictions.

The results indicate that the cumulative impact of the proposed development with existing activities will not exceed the air quality standard. The results therefore indicate that the emissions from the facility will not exert a significant adverse impact on ecosystems. The maximum values predicted for the representative ecological receptors are below a level that could be differentiated from background contributions.

4.4 Impact of nitrogen deposition from the proposed facility on ecosystems

The potential impact of the emissions on ecosystems is also considered using the projected nitrogen deposition rate which is derived from the gaseous nitrogen oxides concentration. The most sensitive habitat for this purpose is bog ecosystems and a recommendation of 5kg N ha⁻¹ year⁻¹ has been made [UNECE 5 – 10 kg N ha⁻¹ year⁻¹ and EPA *Research Report 390: Nitrogen–Sulfur Critical Loads: Assessment of the Impacts of Air Pollution on Habitats (2016-CCRP-MS.43) 5kg N ha⁻¹ year⁻¹] as the critical load for habitat protection. The maximum rate of deposition of total nitrogen at any of the designated ecological receptors within 15km of the proposed site was determined from dispersion modelling as follows with data provided for the highest concentration predicted from the five years of meteorological data for any receptor at the designated ecological sites represented by E1 – E5.*

Table 4.3 Total Nitrogen deposition at designated ecological sites as a result of emissions from the proposed facility

Maximum impacted Ecological Receptor	Maximum Total nitrogen deposition, kg N ha ⁻¹ year ⁻¹	
	Deposition velocity 0.0015m/sec	Deposition velocity 0.003m/sec
Process Contribution	0.055	0.11
Total environmental contribution	2.3	4.4

The predicted deposition rates for the worst case scenarios are well within the critical loads. The contribution from the process to the nitrogen deposition rate is less than 2% of the recommended level under maximum adverse conditions. The levels may also be considered in the context of measured nitrogen deposition rates at Valentia Observatory [EPA *Research Report 390: Nitrogen–Sulfur Critical Loads: Assessment of the Impacts of Air Pollution on Habitats (2016-CCRP-MS.43)*]. This study estimated deposition rates of 8.3 kg N ha⁻¹ y⁻¹ for 2006 - 2015, with a maximum deposition of 19.3 kg N ha⁻¹ y⁻¹ during 2009. The Research Report found that dry deposition made up 40% of total deposition, which was dominated by reduced species (56%), that is, wet ammonium, dry particulate ammonium and dry gaseous ammonia. None of these species are significant in the current study but it is useful to note that nitrogen oxides are not the dominant contributor to nitrogen deposition in Ireland. Agricultural emissions are a much more significant source of deposition in rural environments than traffic or any facility of the type proposed here.

When these concentrations are converted to nitrogen deposition rates following the methodology outlined in the EPA Guidance Note AG4, and using the specified deposition velocities of 0.0015 (grassland) or 0.003 (forest), the assessment predicted a maximum potential nitrogen deposition rate at ecological sites as shown in Table 4.3. The data presented in Table 4.3 shows that even if the plant runs continuously, the maximum potential impact at any location in the protected ecological sites, is significantly lower than the relevant critical loads as set out above.

4.5 Sensitivity analysis

Sensitivity checks on the modelling assumptions were checked as follows:

- Meteorological data selection
- Influence of terrain

The detailed results of those assessments demonstrate that in this facility there is no significant influence on the predictions.

5.0 CONCLUSIONS

The impact of emissions to atmosphere has been investigated using a dispersion modelling approach. The assessment shows that the predicted concentrations are not predicted to exceed the Air Quality Standards for the normal and conservative worst-case operating scenarios assessed. There is therefore predicted to be no significant adverse impact on human health or on ecosystems as a result of the emissions.

APPENDIX 11.1

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Location **NMP1**



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Location **NMP2**



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Location **NMP3**



Location **NMP4**



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APPENDIX 11.2

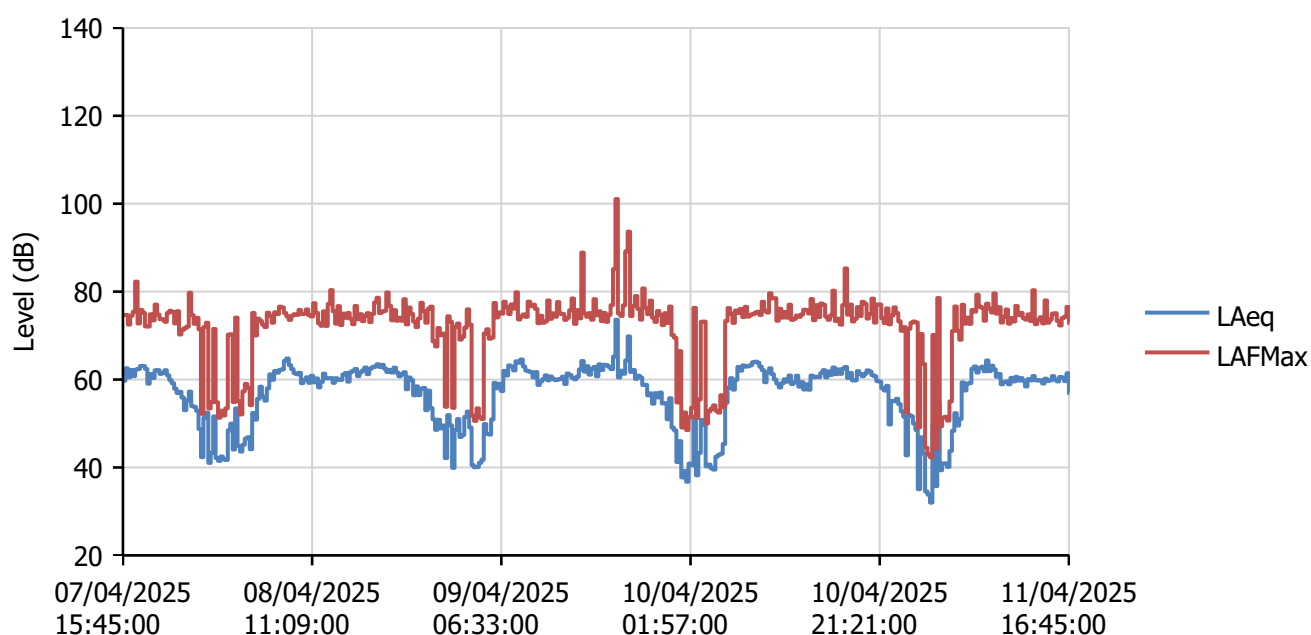
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Measurement List Report

Name NMP 1
Start Time 07/04/2025 15:45:00
End Time 11/04/2025 16:47:23

Calibration Before	07/04/2025 15:33:09	Offset	0.12 dB
Calibration After	11/04/2025 16:47:38	Offset	0.09 dB



Start Time	End Time	Duration	LAeq (dB)	LAFMax	Ln1	Ln2	Ln3	Ln4	Ln5	Ln6	Ln7
07/04/2025 15:45:00	07/04/2025 16:00:00	00:15:00	59.7	74.7	70.4	67.2	64.6	49.9	39.9	39.0	37.9
07/04/2025 16:00:01	07/04/2025 16:15:01	00:15:00	62.6	74.7	71.4	68.9	67.2	57.7	45.8	42.1	38.8
07/04/2025 16:15:01	07/04/2025 16:30:01	00:15:00	60.5	72.5	69.7	67.4	65.3	53.9	44.2	42.7	41.1
07/04/2025 16:30:02	07/04/2025 16:45:02	00:15:00	62.2	74.5	71.2	68.9	67.1	55.6	45.4	43.8	42.0
07/04/2025 16:45:01	07/04/2025 17:00:01	00:15:00	60.8	75.4	70.4	67.8	66.0	52.5	44.6	43.0	41.3

ReportId


07/04/2025 17:00:01	07/04/2025 17:15:01	00:15:00	62.3	82.3	71.1	68.5	66.7	55.2	44.8	43.8	42.4
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ReportId



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ReportId



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08/04/2025 08:15:01	08/04/2025 08:30:01	00:15:00	64.2	75.1	71.7	70.0	68.6	60.7	55.1	54.2	53.2
08/04/2025 08:30:01	08/04/2025 08:45:01	00:15:00	64.8	74.4	72.2	70.4	69.3	61.1	55.0	54.1	52.7
08/04/2025 08:45:01	08/04/2025 09:00:01	00:15:00	63.3	73.6	71.5	69.5	67.9	59.0	53.9	53.2	52.2
08/04/2025 09:00:02	08/04/2025 09:15:02	00:15:00	62.4	74.5	71.3	69.1	67.3	55.9	50.8	49.8	48.4
08/04/2025 09:15:01	08/04/2025 09:30:01	00:15:00	61.5	74.9	70.7	68.4	66.1	54.4	50.6	49.7	48.2
08/04/2025 09:30:01	08/04/2025 09:45:01	00:15:00	61.2	74.7	71.1	68.1	66.2	53.0	48.0	47.2	46.0
08/04/2025 09:45:01	08/04/2025 10:00:01	00:15:00	61.5	75.8	72.2	68.6	66.2	52.6	46.0	45.1	43.7
08/04/2025 10:00:02	08/04/2025 10:15:02	00:15:00	59.2	74.9	70.1	66.8	63.6	49.1	44.0	43.2	41.3
08/04/2025 10:15:01	08/04/2025 10:30:01	00:15:00	59.9	75.0	70.9	67.6	64.5	50.1	42.9	41.8	40.6
08/04/2025 10:30:01	08/04/2025 10:45:01	00:15:00	60.5	76.0	71.8	67.6	65.3	49.1	41.1	40.0	37.8
08/04/2025 10:45:02	08/04/2025 11:00:02	00:15:00	59.3	74.6	69.8	66.7	64.0	49.2	42.3	40.7	38.6
08/04/2025 11:00:01	08/04/2025 11:15:01	00:15:00	60.9	74.4	71.0	67.8	65.7	53.0	42.8	41.4	39.9
08/04/2025 11:15:01	08/04/2025 11:30:01	00:15:00	59.4	77.4	71.4	66.7	62.7	46.9	40.3	39.5	38.6
08/04/2025 11:30:01	08/04/2025 11:45:01	00:15:00	60.3	75.2	70.9	67.5	64.5	52.7	44.2	42.7	41.0
08/04/2025 11:45:01	08/04/2025 12:00:01	00:15:00	58.2	72.8	69.2	65.7	62.9	48.5	42.3	41.3	40.1
08/04/2025 12:00:01	08/04/2025 12:15:01	00:15:00	59.4	72.2	69.6	67.1	64.4	50.1	42.9	41.6	40.2
08/04/2025 12:15:01	08/04/2025 12:30:01	00:15:00	61.3	75.5	71.0	68.1	66.3	53.8	43.0	41.3	38.8

ReportId



08/04/2025 12:30:01	08/04/2025 12:45:01	00:15:00	60.3	72.2	69.8	67.7	65.7	50.1	40.8	39.7	38.1
08/04/2025 12:45:02	08/04/2025 13:00:02	00:15:00	60.3	77.2	70.2	67.4	65.4	49.1	40.4	39.1	37.8
08/04/2025 13:00:01	08/04/2025 13:15:01	00:15:00	60.3	80.4	71.0	67.1	64.3	47.5	39.0	38.0	36.3
08/04/2025 13:15:01	08/04/2025 13:30:01	00:15:00	59.3	75.5	70.2	66.6	63.9	48.7	42.4	41.0	39.0
08/04/2025 13:30:02	08/04/2025 13:45:02	00:15:00	60.3	72.7	69.9	67.3	65.5	52.6	43.3	41.7	39.7
08/04/2025 13:45:01	08/04/2025 14:00:01	00:15:00	60.0	76.7	70.0	66.9	64.8	50.6	41.4	39.6	37.1
08/04/2025 14:00:01	08/04/2025 14:15:01	00:15:00	59.9	72.4	69.7	67.1	65.0	51.7	42.5	40.9	38.6
08/04/2025 14:15:02	08/04/2025 14:30:02	00:15:00	61.1	75.0	70.3	67.7	65.8	54.4	41.8	39.9	37.5
08/04/2025 14:30:01	08/04/2025 14:45:01	00:15:00	61.5	74.0	70.5	68.2	66.3	55.9	46.8	44.4	40.0
08/04/2025 14:45:01	08/04/2025 15:00:01	00:15:00	59.5	75.1	69.7	66.5	64.2	52.4	40.3	38.9	37.9
08/04/2025 15:00:01	08/04/2025 15:15:01	00:15:00	61.7	73.8	70.2	67.9	66.3	56.4	45.3	43.1	40.3
08/04/2025 15:15:02	08/04/2025 15:30:02	00:15:00	62.0	72.6	70.2	68.4	66.9	56.6	43.8	42.3	39.8
08/04/2025 15:30:01	08/04/2025 15:45:01	00:15:00	62.4	76.7	72.4	69.1	67.0	55.2	43.9	42.7	40.0
08/04/2025 15:45:01	08/04/2025 16:00:01	00:15:00	60.8	73.7	70.7	67.5	65.4	53.4	44.5	42.7	40.7
08/04/2025 16:00:02	08/04/2025 16:15:02	00:15:00	61.6	74.9	71.3	68.3	66.4	54.7	44.2	42.7	40.3
08/04/2025 16:15:01	08/04/2025 16:30:01	00:15:00	62.1	73.3	70.4	68.2	66.9	56.6	45.0	43.5	40.1
08/04/2025 16:30:01	08/04/2025 16:45:01	00:15:00	62.7	74.5	71.6	69.2	67.6	56.8	43.0	40.9	39.1
08/04/2025 16:45:01	08/04/2025 17:00:01	00:15:00	61.2	75.1	70.9	67.9	66.1	52.8	40.5	39.1	37.4
08/04/2025 17:00:02	08/04/2025 17:15:02	00:15:00	62.5	73.1	71.3	69.0	67.3	57.3	45.3	42.6	39.9
08/04/2025 17:15:01	08/04/2025 17:30:01	00:15:00	62.8	74.9	71.1	68.7	67.3	58.3	44.4	42.9	40.6
08/04/2025 17:30:01	08/04/2025 17:45:01	00:15:00	63.0	77.5	71.7	69.6	68.1	54.1	44.6	43.4	41.8
08/04/2025 17:45:01	08/04/2025 18:00:01	00:15:00	63.5	78.6	72.0	69.4	68.2	56.9	46.8	45.5	42.8
08/04/2025 18:00:02	08/04/2025 18:15:02	00:15:00	62.9	75.1	71.9	69.5	67.9	54.5	44.3	43.3	41.4
08/04/2025 18:15:01	08/04/2025 18:30:01	00:15:00	63.4	75.5	71.8	69.6	68.1	57.3	47.1	44.8	42.1
08/04/2025 18:30:01	08/04/2025 18:45:01	00:15:00	62.5	75.6	71.3	69.1	67.6	54.9	44.6	43.6	42.4
08/04/2025 18:45:01	08/04/2025 19:00:01	00:15:00	61.7	79.8	71.3	68.5	66.5	52.2	44.7	43.8	42.4

ReportId



08/04/2025 19:00:01	08/04/2025 19:15:01	00:15:00	62.2	76.8	70.5	68.7	67.1	55.6	45.2	44.1	42.8
08/04/2025 19:15:01	08/04/2025 19:30:01	00:15:00	61.6	73.5	70.8	68.5	66.9	53.8	43.3	42.3	41.3
08/04/2025 19:30:01	08/04/2025 19:45:01	00:15:00	62.7	75.8	71.8	69.4	67.5	56.0	44.7	43.1	41.8
08/04/2025 19:45:02	08/04/2025 20:00:02	00:15:00	61.6	73.4	70.7	68.4	66.4	54.6	44.2	43.3	41.7
08/04/2025 20:00:01	08/04/2025 20:15:01	00:15:00	60.7	74.1	71.4	67.7	65.3	52.3	43.5	42.5	41.1
08/04/2025 20:15:02	08/04/2025 20:30:02	00:15:00	61.2	73.4	71.5	68.2	65.9	51.7	44.0	42.9	41.1
08/04/2025 20:30:01	08/04/2025 20:45:01	00:15:00	61.7	78.3	73.5	68.6	65.8	52.0	45.1	43.3	40.9
08/04/2025 20:45:01	08/04/2025 21:00:01	00:15:00	57.8	72.6	69.3	65.7	62.4	47.4	41.4	40.2	37.1
08/04/2025 21:00:01	08/04/2025 21:15:01	00:15:00	60.5	76.4	72.3	67.1	64.5	50.1	43.6	42.1	40.0
08/04/2025 21:15:02	08/04/2025 21:30:02	00:15:00	59.9	74.9	69.7	67.1	64.8	49.2	43.4	42.3	40.3
08/04/2025 21:30:01	08/04/2025 21:45:01	00:15:00	56.4	73.2	69.3	64.1	57.7	44.2	38.3	36.6	34.0
08/04/2025 21:45:01	08/04/2025 22:00:01	00:15:00	58.5	71.9	69.7	66.0	63.5	46.1	40.3	38.7	37.0
08/04/2025 22:00:01	08/04/2025 22:15:01	00:15:00	56.4	73.9	69.1	63.8	58.8	44.3	38.1	36.9	34.9
08/04/2025 22:15:02	08/04/2025 22:30:02	00:15:00	57.9	77.5	69.9	65.3	61.3	44.8	39.8	38.1	35.3
08/04/2025 22:30:01	08/04/2025 22:45:01	00:15:00	58.1	75.6	70.4	65.2	62.1	44.7	38.6	37.0	34.7
08/04/2025 22:45:01	08/04/2025 23:00:01	00:15:00	53.0	72.9	66.6	59.0	51.2	42.6	38.2	37.4	35.8
08/04/2025 23:00:02	08/04/2025 23:15:02	00:15:00	57.5	76.1	69.3	65.2	61.8	43.3	35.5	33.9	31.8
08/04/2025 23:15:01	08/04/2025 23:30:01	00:15:00	53.5	76.6	67.7	51.3	47.6	41.6	36.0	34.9	32.6
08/04/2025 23:30:02	08/04/2025 23:45:02	00:15:00	50.9	68.7	64.9	54.6	49.5	42.0	37.0	35.7	33.3
08/04/2025 23:45:01	09/04/2025 00:00:01	00:15:00	48.6	67.5	62.8	50.7	46.5	40.0	34.5	33.6	32.0
09/04/2025 00:00:01	09/04/2025 00:15:01	00:15:00	50.9	71.7	65.4	51.2	46.5	39.1	33.5	31.9	30.6
09/04/2025 00:15:01	09/04/2025 00:30:01	00:15:00	48.9	70.1	62.6	50.0	46.8	40.0	33.9	32.6	31.1
09/04/2025 00:30:02	09/04/2025 00:45:02	00:15:00	49.5	70.5	63.1	50.5	47.4	40.9	35.4	31.9	30.0
09/04/2025 00:45:01	09/04/2025 01:00:01	00:15:00	42.1	53.8	49.5	46.9	45.5	40.1	34.6	33.4	32.2
09/04/2025 01:00:01	09/04/2025 01:15:01	00:15:00	51.9	74.4	63.6	49.2	47.5	39.7	33.9	33.1	31.9
09/04/2025 01:15:01	09/04/2025 01:30:01	00:15:00	49.6	73.1	60.8	50.1	47.0	40.8	33.9	32.5	31.3

ReportId



09/04/2025 01:30:01	09/04/2025 01:45:01	00:15:00	39.9	53.6	48.8	45.7	43.8	36.5	30.2	29.4	28.6
09/04/2025 01:45:01	09/04/2025 02:00:01	00:15:00	48.5	72.0	61.4	48.6	45.5	38.4	28.7	28.0	26.9
09/04/2025 02:00:02	09/04/2025 02:15:02	00:15:00	51.0	72.7	65.4	51.4	48.1	39.4	29.1	28.1	27.2
09/04/2025 02:15:01	09/04/2025 02:30:01	00:15:00	46.9	69.1	59.3	48.7	45.5	37.3	29.5	28.7	27.9
09/04/2025 02:30:01	09/04/2025 02:45:01	00:15:00	47.4	69.7	60.4	48.3	46.0	39.5	32.9	31.6	28.6
09/04/2025 02:45:01	09/04/2025 03:00:01	00:15:00	51.5	71.8	65.3	56.3	49.0	38.4	30.1	29.1	27.8
09/04/2025 03:00:02	09/04/2025 03:15:02	00:15:00	52.7	76.0	65.8	52.1	47.2	39.6	33.8	31.8	29.3
09/04/2025 03:15:01	09/04/2025 03:30:01	00:15:00	49.1	72.5	60.4	49.1	46.7	40.5	32.5	31.0	29.6
09/04/2025 03:30:01	09/04/2025 03:45:01	00:15:00	40.5	51.8	48.3	45.2	43.9	38.7	32.3	30.7	28.3
09/04/2025 03:45:01	09/04/2025 04:00:01	00:15:00	40.0	50.6	47.4	45.3	43.8	37.6	32.3	30.8	29.2
09/04/2025 04:00:02	09/04/2025 04:15:02	00:15:00	40.1	53.5	48.9	45.6	43.8	37.5	28.8	26.5	25.5
09/04/2025 04:15:01	09/04/2025 04:30:01	00:15:00	41.1	51.4	47.5	45.4	44.4	39.6	33.0	31.6	30.0
09/04/2025 04:30:01	09/04/2025 04:45:01	00:15:00	41.8	51.0	47.8	46.1	45.1	40.5	32.6	29.8	27.8
09/04/2025 04:45:01	09/04/2025 05:00:01	00:15:00	49.9	70.5	64.3	52.1	45.9	38.7	33.5	32.5	31.1
09/04/2025 05:00:02	09/04/2025 05:15:02	00:15:00	47.6	71.4	59.3	46.5	44.9	39.5	33.8	32.2	30.5
09/04/2025 05:15:01	09/04/2025 05:30:01	00:15:00	47.5	69.3	59.0	47.6	46.4	42.5	38.8	37.9	35.4
09/04/2025 05:30:01	09/04/2025 05:45:01	00:15:00	50.9	69.5	64.4	52.8	49.4	46.1	42.5	41.3	38.5
09/04/2025 05:45:01	09/04/2025 06:00:01	00:15:00	59.2	77.4	71.2	66.0	61.7	50.7	46.9	46.1	44.7
09/04/2025 06:00:01	09/04/2025 06:15:01	00:15:00	58.0	74.1	70.7	65.1	59.8	50.4	46.3	45.5	44.3
09/04/2025 06:15:01	09/04/2025 06:30:01	00:15:00	59.0	75.3	71.1	66.6	61.9	49.5	44.6	43.7	42.3
09/04/2025 06:30:01	09/04/2025 06:45:01	00:15:00	57.4	75.0	70.6	64.0	58.2	46.8	43.5	42.8	41.3
09/04/2025 06:45:01	09/04/2025 07:00:01	00:15:00	62.0	77.7	72.7	69.4	66.2	52.1	45.6	44.6	43.1
09/04/2025 07:00:01	09/04/2025 07:15:01	00:15:00	60.9	76.4	71.5	68.6	65.1	53.2	47.3	46.3	44.9
09/04/2025 07:15:01	09/04/2025 07:30:01	00:15:00	63.2	74.9	72.5	69.8	68.0	58.1	50.7	49.0	46.0
09/04/2025 07:30:01	09/04/2025 07:45:01	00:15:00	62.9	77.1	72.4	69.6	67.6	57.7	51.2	50.4	49.3
09/04/2025 07:45:01	09/04/2025 08:00:01	00:15:00	62.1	76.1	72.5	68.9	66.6	54.8	49.7	49.0	47.9

ReportId



09/04/2025 08:00:01	09/04/2025 08:15:01	00:15:00	64.2	79.8	72.8	70.4	68.6	59.4	52.9	51.7	49.9
09/04/2025 08:15:01	09/04/2025 08:30:01	00:15:00	63.8	73.7	71.6	69.9	68.6	59.5	51.5	50.3	48.7
09/04/2025 08:30:01	09/04/2025 08:45:01	00:15:00	64.6	74.4	72.6	70.4	69.1	60.1	52.4	51.6	50.5
09/04/2025 08:45:01	09/04/2025 09:00:01	00:15:00	63.0	74.8	71.7	69.8	68.3	55.1	49.2	48.1	46.8
09/04/2025 09:00:01	09/04/2025 09:15:01	00:15:00	62.0	74.3	71.5	68.6	67.1	54.2	46.6	45.9	44.6
09/04/2025 09:15:01	09/04/2025 09:30:01	00:15:00	61.9	77.7	71.6	68.6	66.6	53.6	46.1	45.4	44.2
09/04/2025 09:30:01	09/04/2025 09:45:01	00:15:00	61.7	76.7	72.1	68.3	66.0	54.4	45.6	44.8	43.8
09/04/2025 09:45:01	09/04/2025 10:00:01	00:15:00	60.5	77.0	70.1	67.5	64.9	53.8	45.0	44.2	43.2
09/04/2025 10:00:01	09/04/2025 10:15:01	00:15:00	61.7	76.1	71.1	68.7	66.7	53.8	42.3	41.5	40.6
09/04/2025 10:15:01	09/04/2025 10:30:01	00:15:00	58.8	72.8	69.6	66.4	64.1	47.0	39.6	38.7	37.4
09/04/2025 10:30:01	09/04/2025 10:45:01	00:15:00	59.6	74.5	70.1	67.3	64.3	49.3	42.0	41.1	39.8
09/04/2025 10:45:01	09/04/2025 11:00:01	00:15:00	60.1	72.9	70.2	67.4	65.1	51.2	43.1	41.9	39.5
09/04/2025 11:00:01	09/04/2025 11:15:01	00:15:00	61.0	73.3	70.8	67.6	66.0	52.7	42.4	41.3	39.7
09/04/2025 11:15:01	09/04/2025 11:30:01	00:15:00	59.8	78.0	69.8	66.5	64.5	50.6	43.1	41.8	39.7
09/04/2025 11:30:01	09/04/2025 11:45:01	00:15:00	60.7	73.8	70.7	67.8	65.7	51.7	42.9	42.0	40.7
09/04/2025 11:45:01	09/04/2025 12:00:01	00:15:00	60.2	75.1	70.9	67.1	64.5	51.4	43.1	42.3	41.1
09/04/2025 12:00:02	09/04/2025 12:15:02	00:15:00	59.9	74.3	70.5	66.8	64.7	50.2	42.6	41.6	40.2
09/04/2025 12:15:01	09/04/2025 12:30:01	00:15:00	60.0	77.6	70.3	67.1	64.9	50.3	42.1	41.2	40.1
09/04/2025 12:30:01	09/04/2025 12:45:01	00:15:00	60.1	75.0	70.3	67.5	65.1	50.3	43.1	42.0	40.5
09/04/2025 12:45:01	09/04/2025 13:00:01	00:15:00	60.6	74.9	70.7	67.7	65.7	50.0	43.3	42.3	40.4
09/04/2025 13:00:01	09/04/2025 13:15:01	00:15:00	59.0	73.6	68.9	66.0	64.2	49.8	42.4	41.1	39.8
09/04/2025 13:15:01	09/04/2025 13:30:01	00:15:00	61.4	74.1	70.6	68.0	66.3	53.6	44.2	43.1	41.6
09/04/2025 13:30:01	09/04/2025 13:45:01	00:15:00	61.0	75.8	71.6	67.9	65.5	53.0	44.4	43.1	41.0
09/04/2025 13:45:01	09/04/2025 14:00:01	00:15:00	60.4	78.4	71.9	67.8	64.4	48.2	43.1	42.3	40.7
09/04/2025 14:00:02	09/04/2025 14:15:02	00:15:00	60.1	72.7	70.3	67.8	65.1	50.5	44.0	43.2	41.7
09/04/2025 14:15:01	09/04/2025 14:30:01	00:15:00	60.7	75.8	71.7	67.9	65.5	50.4	43.2	41.9	40.4

ReportId



09/04/2025 14:30:01	09/04/2025 14:45:01	00:15:00	62.3	73.9	71.2	69.1	67.4	53.8	44.2	43.1	40.7
09/04/2025 14:45:01	09/04/2025 15:00:01	00:15:00	64.2	88.9	72.0	68.8	67.0	53.2	45.4	44.3	42.4
09/04/2025 15:00:01	09/04/2025 15:15:01	00:15:00	61.8	75.0	71.5	68.5	66.7	53.2	45.3	44.4	42.9
09/04/2025 15:15:01	09/04/2025 15:30:01	00:15:00	63.0	74.3	71.6	69.3	67.9	57.0	46.4	45.4	43.6
09/04/2025 15:30:01	09/04/2025 15:45:01	00:15:00	61.1	75.1	70.5	68.3	66.5	51.4	45.3	44.3	42.0
09/04/2025 15:45:01	09/04/2025 16:00:01	00:15:00	62.4	73.6	71.0	68.8	67.2	56.3	47.2	45.8	43.4
09/04/2025 16:00:01	09/04/2025 16:15:01	00:15:00	62.9	78.3	71.4	69.1	67.5	56.9	46.5	45.3	43.9
09/04/2025 16:15:01	09/04/2025 16:30:01	00:15:00	60.7	74.6	70.5	67.5	65.7	52.8	44.1	43.3	41.9
09/04/2025 16:30:01	09/04/2025 16:45:01	00:15:00	63.5	75.5	73.2	69.4	68.1	56.4	45.0	43.9	42.3
09/04/2025 16:45:01	09/04/2025 17:00:01	00:15:00	62.2	73.3	71.0	69.0	67.5	53.6	45.6	44.8	43.9
09/04/2025 17:00:01	09/04/2025 17:15:01	00:15:00	63.4	75.1	71.3	69.5	68.0	58.4	49.1	47.6	45.5
09/04/2025 17:15:02	09/04/2025 17:30:02	00:15:00	63.2	73.1	71.0	69.2	67.8	59.2	48.7	47.1	44.9
09/04/2025 17:30:01	09/04/2025 17:45:01	00:15:00	62.9	74.7	71.6	69.2	67.5	57.7	48.1	46.8	45.2
09/04/2025 17:45:01	09/04/2025 18:00:01	00:15:00	62.4	76.9	70.9	68.2	66.7	58.0	49.9	48.5	46.6
09/04/2025 18:00:02	09/04/2025 18:15:02	00:15:00	65.2	85.1	76.6	69.9	68.2	58.1	48.3	46.9	45.3
09/04/2025 18:15:01	09/04/2025 18:30:01	00:15:00	73.6	101.1	82.9	69.6	67.9	57.8	46.8	45.6	44.2
09/04/2025 18:30:01	09/04/2025 18:45:01	00:15:00	60.5	75.0	71.6	67.3	64.7	51.8	45.3	44.3	43.2
09/04/2025 18:45:01	09/04/2025 19:00:01	00:15:00	62.0	74.5	71.0	68.2	66.6	57.0	46.2	44.8	43.2
09/04/2025 19:00:02	09/04/2025 19:15:02	00:15:00	61.3	76.9	71.1	68.0	66.0	54.6	44.4	43.1	41.1
09/04/2025 19:15:01	09/04/2025 19:30:01	00:15:00	64.3	89.2	74.8	68.7	66.4	51.5	44.7	43.9	42.1
09/04/2025 19:30:01	09/04/2025 19:45:01	00:15:00	69.8	93.6	81.6	68.9	67.2	53.7	45.9	45.1	43.8
09/04/2025 19:45:01	09/04/2025 20:00:01	00:15:00	61.7	74.4	70.6	68.4	66.8	53.7	46.4	45.6	44.6
09/04/2025 20:00:02	09/04/2025 20:15:02	00:15:00	62.2	76.8	71.9	68.9	66.7	54.2	46.1	45.1	43.1
09/04/2025 20:15:01	09/04/2025 20:30:01	00:15:00	60.2	79.0	71.0	67.4	64.7	49.1	44.3	43.6	42.3
09/04/2025 20:30:01	09/04/2025 20:45:01	00:15:00	60.9	76.0	70.8	67.8	65.0	54.1	47.0	46.0	44.2
09/04/2025 20:45:01	09/04/2025 21:00:01	00:15:00	60.4	73.6	71.2	67.9	65.3	51.5	45.3	43.9	42.1

ReportId



09/04/2025 21:00:01	09/04/2025 21:15:01	00:15:00	58.8	80.7	69.1	65.0	61.0	46.6	42.6	41.7	38.4
09/04/2025 21:15:01	09/04/2025 21:30:01	00:15:00	58.8	76.3	72.3	65.8	59.1	44.6	40.9	39.8	37.4
09/04/2025 21:30:01	09/04/2025 21:45:01	00:15:00	56.4	74.9	70.1	63.6	56.9	42.4	37.6	36.5	34.9
09/04/2025 21:45:01	09/04/2025 22:00:01	00:15:00	56.9	78.0	69.8	63.3	57.1	44.0	40.0	39.1	37.8
09/04/2025 22:00:01	09/04/2025 22:15:01	00:15:00	54.5	74.1	68.1	59.9	52.3	42.3	38.0	36.8	35.3
09/04/2025 22:15:01	09/04/2025 22:30:01	00:15:00	56.9	73.1	69.0	64.9	61.0	44.0	39.0	38.0	35.9
09/04/2025 22:30:01	09/04/2025 22:45:01	00:15:00	55.9	75.6	69.3	62.3	57.1	43.0	37.7	36.1	33.4
09/04/2025 22:45:02	09/04/2025 23:00:02	00:15:00	57.1	74.7	70.2	64.0	60.1	44.5	39.6	38.7	37.6
09/04/2025 23:00:01	09/04/2025 23:15:01	00:15:00	54.6	72.4	67.8	61.4	56.1	43.6	35.0	33.2	30.8
09/04/2025 23:15:01	09/04/2025 23:30:01	00:15:00	54.6	75.1	68.1	60.8	54.5	43.4	38.0	35.7	31.4
09/04/2025 23:30:01	09/04/2025 23:45:01	00:15:00	51.0	72.9	65.3	52.2	46.8	39.3	33.6	32.5	30.7
09/04/2025 23:45:01	10/04/2025 00:00:01	00:15:00	55.8	76.6	69.8	60.6	52.7	42.1	33.1	31.5	29.9
10/04/2025 00:00:01	10/04/2025 00:15:01	00:15:00	49.1	70.1	62.8	50.6	47.0	36.5	31.7	30.9	29.7
10/04/2025 00:15:01	10/04/2025 00:30:01	00:15:00	48.5	69.5	61.8	49.6	46.1	36.7	31.0	30.3	29.1
10/04/2025 00:30:01	10/04/2025 00:45:01	00:15:00	41.2	54.8	49.0	46.3	45.0	38.7	31.2	30.5	29.6
10/04/2025 00:45:01	10/04/2025 01:00:01	00:15:00	46.0	66.5	59.8	47.1	44.2	35.7	31.0	29.6	27.6
10/04/2025 01:00:01	10/04/2025 01:15:01	00:15:00	37.7	49.1	45.2	42.8	41.2	35.2	30.5	29.3	28.0
10/04/2025 01:15:02	10/04/2025 01:30:02	00:15:00	39.2	52.5	47.3	44.7	42.9	36.3	31.3	30.4	28.7
10/04/2025 01:30:01	10/04/2025 01:45:01	00:15:00	36.8	48.5	45.0	42.4	40.8	33.2	28.8	28.4	27.7
10/04/2025 01:45:01	10/04/2025 02:00:01	00:15:00	40.9	51.4	48.4	45.9	44.4	38.7	32.3	31.3	29.4
10/04/2025 02:00:01	10/04/2025 02:15:01	00:15:00	40.5	53.6	49.2	46.3	44.3	37.1	28.9	27.7	26.8
10/04/2025 02:15:02	10/04/2025 02:30:02	00:15:00	51.6	76.3	65.2	48.8	46.4	37.9	32.2	31.1	29.4
10/04/2025 02:30:01	10/04/2025 02:45:01	00:15:00	38.2	51.3	47.0	43.9	41.8	34.5	29.9	29.2	28.4
10/04/2025 02:45:01	10/04/2025 03:00:01	00:15:00	43.3	55.5	51.1	48.9	47.4	40.1	33.6	31.6	29.8
10/04/2025 03:00:02	10/04/2025 03:15:02	00:15:00	50.8	73.1	64.2	49.1	45.6	38.1	30.9	30.0	28.7
10/04/2025 03:15:01	10/04/2025 03:30:01	00:15:00	49.7	73.2	62.8	48.3	46.1	39.2	34.9	33.3	31.1

ReportId



10/04/2025 03:30:01	10/04/2025 03:45:01	00:15:00	40.3	50.0	47.5	45.2	43.6	38.4	31.7	30.8	29.7
10/04/2025 03:45:02	10/04/2025 04:00:02	00:15:00	40.7	52.8	48.6	45.6	44.1	38.5	31.3	30.2	29.1
10/04/2025 04:00:01	10/04/2025 04:15:01	00:15:00	39.8	53.4	47.2	44.4	43.0	38.0	31.9	30.9	29.5
10/04/2025 04:15:01	10/04/2025 04:30:01	00:15:00	39.5	54.1	47.7	44.9	43.2	36.4	29.9	29.2	27.9
10/04/2025 04:30:02	10/04/2025 04:45:02	00:15:00	42.5	52.9	50.0	47.3	45.9	40.4	33.8	32.7	31.2
10/04/2025 04:45:01	10/04/2025 05:00:01	00:15:00	42.9	52.5	49.2	47.2	46.0	41.6	34.7	32.6	30.9
10/04/2025 05:00:01	10/04/2025 05:15:01	00:15:00	43.1	56.4	51.6	48.4	46.7	40.3	34.5	33.4	31.0
10/04/2025 05:15:01	10/04/2025 05:30:01	00:15:00	45.3	53.7	50.9	49.4	48.4	44.2	39.8	38.1	33.3
10/04/2025 05:30:02	10/04/2025 05:45:02	00:15:00	54.7	73.3	67.9	58.9	54.0	48.3	42.9	41.1	37.6
10/04/2025 05:45:01	10/04/2025 06:00:01	00:15:00	58.2	76.3	70.2	64.4	59.7	51.7	47.9	46.9	45.0
10/04/2025 06:00:01	10/04/2025 06:15:01	00:15:00	60.3	75.0	71.5	67.9	64.2	52.6	48.2	47.2	45.4
10/04/2025 06:15:01	10/04/2025 06:30:01	00:15:00	57.7	72.9	69.0	65.1	60.9	51.0	47.4	46.5	44.6
10/04/2025 06:30:02	10/04/2025 06:45:02	00:15:00	59.9	75.7	71.2	67.1	63.7	51.3	47.4	46.6	44.8
10/04/2025 06:45:01	10/04/2025 07:00:01	00:15:00	62.9	75.2	72.8	69.9	67.4	55.2	49.9	49.1	47.8
10/04/2025 07:00:01	10/04/2025 07:15:01	00:15:00	62.0	76.1	72.6	68.6	66.4	55.2	50.3	49.3	47.7
10/04/2025 07:15:02	10/04/2025 07:30:02	00:15:00	63.2	74.2	71.5	69.3	67.7	59.4	53.6	52.7	50.8
10/04/2025 07:30:01	10/04/2025 07:45:01	00:15:00	62.9	76.5	72.3	69.2	67.2	58.1	53.6	52.7	51.4
10/04/2025 07:45:01	10/04/2025 08:00:01	00:15:00	63.0	74.3	71.7	69.4	67.6	58.1	53.3	52.2	49.5
10/04/2025 08:00:02	10/04/2025 08:15:02	00:15:00	63.3	74.7	71.7	69.6	68.1	57.4	53.3	52.4	51.0
10/04/2025 08:15:01	10/04/2025 08:30:01	00:15:00	63.9	74.9	72.3	70.2	68.4	59.2	52.5	51.4	50.1
10/04/2025 08:30:01	10/04/2025 08:45:01	00:15:00	64.1	75.2	73.0	70.3	68.5	59.3	51.9	51.4	50.2
10/04/2025 08:45:01	10/04/2025 09:00:01	00:15:00	63.9	75.4	72.0	69.9	68.6	59.3	49.8	48.3	46.6
10/04/2025 09:00:01	10/04/2025 09:15:01	00:15:00	62.9	74.7	71.7	69.7	68.0	55.3	47.4	46.2	45.0
10/04/2025 09:15:01	10/04/2025 09:30:01	00:15:00	62.2	77.7	73.1	69.1	66.9	53.0	43.0	42.1	40.8
10/04/2025 09:30:01	10/04/2025 09:45:01	00:15:00	59.4	75.7	70.9	66.8	63.7	47.6	41.7	40.9	40.0
10/04/2025 09:45:02	10/04/2025 10:00:02	00:15:00	61.6	75.2	72.0	68.5	66.8	51.3	41.9	40.9	39.8

ReportId



10/04/2025 10:00:01	10/04/2025 10:15:01	00:15:00	62.6	79.6	72.6	69.5	67.3	51.7	41.6	40.2	37.6
10/04/2025 10:15:01	10/04/2025 10:30:01	00:15:00	61.2	78.5	70.6	68.1	65.9	52.8	40.3	38.6	35.8
10/04/2025 10:30:02	10/04/2025 10:45:02	00:15:00	60.0	78.5	70.2	67.4	64.5	48.7	41.0	40.0	38.5
10/04/2025 10:45:01	10/04/2025 11:00:01	00:15:00	59.1	73.4	70.1	66.8	63.8	47.9	40.2	39.2	37.4
10/04/2025 11:00:01	10/04/2025 11:15:01	00:15:00	58.2	76.1	70.1	65.5	61.7	43.8	38.4	37.1	36.7
10/04/2025 11:15:01	10/04/2025 11:30:01	00:15:00	59.2	74.1	70.6	66.7	63.1	47.1	39.2	38.0	36.1
10/04/2025 11:30:02	10/04/2025 11:45:02	00:15:00	60.1	75.4	71.1	67.1	64.7	47.9	40.4	39.3	37.6
10/04/2025 11:45:01	10/04/2025 12:00:01	00:15:00	59.5	74.1	70.6	67.5	64.7	45.5	39.0	38.1	37.0
10/04/2025 12:00:01	10/04/2025 12:15:01	00:15:00	60.9	77.0	72.0	68.3	65.5	48.2	41.1	40.1	39.0
10/04/2025 12:15:01	10/04/2025 12:30:01	00:15:00	59.0	73.6	69.9	66.4	64.2	47.3	40.3	38.9	36.6
10/04/2025 12:30:02	10/04/2025 12:45:02	00:15:00	59.4	73.8	70.0	66.8	64.3	47.9	41.2	39.9	37.7
10/04/2025 12:45:01	10/04/2025 13:00:01	00:15:00	60.9	74.6	71.3	67.6	65.7	52.2	40.3	39.0	37.6
10/04/2025 13:00:01	10/04/2025 13:15:01	00:15:00	58.4	74.3	70.1	66.1	62.5	44.7	37.9	37.0	36.2
10/04/2025 13:15:02	10/04/2025 13:30:02	00:15:00	59.4	74.8	70.2	67.0	64.2	47.8	40.1	38.8	36.9
10/04/2025 13:30:01	10/04/2025 13:45:01	00:15:00	57.7	75.9	68.7	65.6	62.1	44.0	36.9	35.7	34.2
10/04/2025 13:45:01	10/04/2025 14:00:01	00:15:00	58.9	75.8	70.7	66.7	63.5	45.0	37.7	36.4	34.7
10/04/2025 14:00:01	10/04/2025 14:15:01	00:15:00	57.7	75.0	69.4	65.1	61.5	43.2	35.0	33.7	32.1
10/04/2025 14:15:02	10/04/2025 14:30:02	00:15:00	60.9	78.3	71.8	67.9	65.9	48.3	37.1	35.9	33.6
10/04/2025 14:30:01	10/04/2025 14:45:01	00:15:00	60.5	73.5	70.1	67.6	65.6	51.3	39.4	37.8	35.8
10/04/2025 14:45:01	10/04/2025 15:00:01	00:15:00	60.7	76.9	71.2	67.8	65.8	49.3	37.9	35.8	34.0
10/04/2025 15:00:01	10/04/2025 15:15:01	00:15:00	60.5	74.2	70.8	67.4	65.6	50.7	41.4	39.1	36.8
10/04/2025 15:15:02	10/04/2025 15:30:02	00:15:00	61.5	77.3	71.5	68.3	66.4	51.7	40.3	38.9	36.5
10/04/2025 15:30:01	10/04/2025 15:45:01	00:15:00	62.1	77.0	72.6	68.8	66.9	52.7	37.6	35.6	33.6
10/04/2025 15:45:02	10/04/2025 16:00:02	00:15:00	60.5	74.3	71.1	67.8	66.0	48.0	38.0	36.4	34.6
10/04/2025 16:00:01	10/04/2025 16:15:01	00:15:00	61.9	73.6	71.5	68.6	66.7	54.2	41.3	39.6	37.4
10/04/2025 16:15:01	10/04/2025 16:30:01	00:15:00	61.1	74.6	70.9	68.0	66.2	51.5	40.8	38.7	36.4

ReportId



10/04/2025 16:30:01	10/04/2025 16:45:01	00:15:00	62.8	80.2	71.7	68.7	67.2	56.6	43.5	40.5	36.9
10/04/2025 16:45:02	10/04/2025 17:00:02	00:15:00	61.2	73.3	70.4	68.1	66.3	54.1	40.9	39.5	37.5
10/04/2025 17:00:02	10/04/2025 17:15:02	00:15:00	62.3	73.8	70.8	68.9	67.5	55.3	40.8	38.9	34.0
10/04/2025 17:15:01	10/04/2025 17:30:01	00:15:00	61.3	72.5	70.0	68.3	66.7	52.5	38.2	36.1	32.3
10/04/2025 17:30:01	10/04/2025 17:45:01	00:15:00	62.5	76.9	71.3	68.8	67.5	56.9	41.9	38.8	34.8
10/04/2025 17:45:01	10/04/2025 18:00:01	00:15:00	62.9	85.3	71.0	68.8	67.0	53.8	38.8	36.6	34.3
10/04/2025 18:00:02	10/04/2025 18:15:02	00:15:00	60.4	74.8	70.5	67.4	65.4	50.0	39.2	37.4	34.2
10/04/2025 18:15:01	10/04/2025 18:30:01	00:15:00	61.5	77.1	70.9	68.4	66.4	53.0	42.3	40.4	36.8
10/04/2025 18:30:01	10/04/2025 18:45:01	00:15:00	59.8	73.2	69.9	67.2	65.2	47.6	34.9	33.1	31.2
10/04/2025 18:45:02	10/04/2025 19:00:02	00:15:00	59.8	73.8	69.7	67.2	65.1	48.3	36.0	34.7	33.2
10/04/2025 19:00:01	10/04/2025 19:15:01	00:15:00	61.9	76.5	72.0	68.5	66.8	54.5	44.7	43.4	40.5
10/04/2025 19:15:01	10/04/2025 19:30:01	00:15:00	61.3	74.5	71.6	68.2	66.1	52.0	38.9	37.2	35.0
10/04/2025 19:30:01	10/04/2025 19:45:01	00:15:00	60.7	77.7	72.2	68.1	65.0	48.7	39.0	37.5	35.4
10/04/2025 19:45:02	10/04/2025 20:00:02	00:15:00	61.3	77.2	71.5	68.7	66.5	52.0	41.9	39.4	35.5
10/04/2025 20:00:01	10/04/2025 20:15:01	00:15:00	62.1	73.9	71.9	69.1	67.2	53.1	40.6	38.5	35.8
10/04/2025 20:15:01	10/04/2025 20:30:01	00:15:00	61.8	74.9	71.0	68.8	67.1	52.4	43.9	41.8	38.8
10/04/2025 20:30:02	10/04/2025 20:45:02	00:15:00	61.0	78.4	71.5	67.7	65.3	50.8	42.4	41.5	39.9
10/04/2025 20:45:01	10/04/2025 21:00:01	00:15:00	60.8	73.0	70.4	67.9	66.1	52.1	40.5	39.0	37.8
10/04/2025 21:00:01	10/04/2025 21:15:01	00:15:00	59.7	77.1	70.6	67.1	64.3	47.6	40.7	39.2	37.1
10/04/2025 21:15:02	10/04/2025 21:30:02	00:15:00	59.5	77.1	71.0	67.1	63.9	46.3	41.2	40.0	37.5
10/04/2025 21:30:01	10/04/2025 21:45:01	00:15:00	58.1	74.0	70.7	65.7	61.7	44.2	38.9	38.0	35.8
10/04/2025 21:45:01	10/04/2025 22:00:01	00:15:00	57.5	72.9	69.3	65.5	61.6	45.4	39.8	38.6	37.1
10/04/2025 22:00:01	10/04/2025 22:15:01	00:15:00	58.6	76.2	70.8	66.5	61.9	43.4	39.2	38.2	37.0
10/04/2025 22:15:02	10/04/2025 22:30:02	00:15:00	49.8	72.6	62.1	45.2	43.9	40.6	37.2	36.6	35.5
10/04/2025 22:30:01	10/04/2025 22:45:01	00:15:00	55.1	74.5	69.8	58.7	51.1	42.3	38.5	37.6	36.5
10/04/2025 22:45:01	10/04/2025 23:00:01	00:15:00	55.0	76.4	67.7	61.4	53.1	44.1	40.5	39.7	37.5

ReportId



10/04/2025 23:00:02	10/04/2025 23:15:02	00:15:00	55.6	75.1	68.0	63.0	57.3	44.3	40.9	39.7	34.5
10/04/2025 23:15:01	10/04/2025 23:30:01	00:15:00	54.4	73.2	69.0	59.2	52.4	43.5	39.1	38.2	37.2
10/04/2025 23:30:01	10/04/2025 23:45:01	00:15:00	52.8	71.1	66.9	58.7	50.9	41.1	37.2	36.0	33.7
10/04/2025 23:45:01	11/04/2025 00:00:01	00:15:00	51.6	71.9	66.1	53.8	46.8	40.3	36.0	34.7	33.0
11/04/2025 00:00:01	11/04/2025 00:15:01	00:15:00	42.8	52.5	49.5	46.7	45.5	41.4	37.5	36.5	35.4
11/04/2025 00:15:01	11/04/2025 00:30:01	00:15:00	51.9	71.5	66.6	54.8	48.2	40.0	35.4	33.8	31.4
11/04/2025 00:30:01	11/04/2025 00:45:01	00:15:00	51.7	72.9	66.7	50.7	45.6	40.0	33.4	31.8	30.4
11/04/2025 00:45:02	11/04/2025 01:00:02	00:15:00	50.0	73.2	63.2	48.8	44.0	38.3	33.4	32.1	29.5
11/04/2025 01:00:01	11/04/2025 01:15:01	00:15:00	48.6	73.0	59.9	44.9	42.4	35.7	30.8	29.0	27.2
11/04/2025 01:15:01	11/04/2025 01:30:01	00:15:00	35.1	49.1	43.3	40.1	38.4	32.8	27.4	25.9	24.3
11/04/2025 01:30:01	11/04/2025 01:45:01	00:15:00	46.9	70.4	59.2	45.9	40.2	28.9	23.6	23.0	22.2
11/04/2025 01:45:01	11/04/2025 02:00:01	00:15:00	43.2	63.5	58.5	41.8	39.5	31.8	26.8	25.3	22.5
11/04/2025 02:00:01	11/04/2025 02:15:01	00:15:00	34.5	44.5	40.6	38.3	37.2	33.7	28.9	27.6	25.3
11/04/2025 02:15:01	11/04/2025 02:30:01	00:15:00	33.8	42.9	40.6	38.4	37.1	31.8	28.1	27.5	26.0
11/04/2025 02:30:02	11/04/2025 02:45:02	00:15:00	32.0	42.3	38.7	36.5	35.2	30.2	26.7	25.9	24.9
11/04/2025 02:45:01	11/04/2025 03:00:01	00:15:00	49.5	70.1	64.8	49.4	41.2	34.8	30.1	29.0	26.8
11/04/2025 03:00:01	11/04/2025 03:15:01	00:15:00	35.8	44.4	41.8	39.2	38.2	34.8	31.2	30.3	28.6
11/04/2025 03:15:01	11/04/2025 03:30:01	00:15:00	54.5	78.6	67.5	52.5	45.3	38.7	35.0	34.4	33.4
11/04/2025 03:30:02	11/04/2025 03:45:02	00:15:00	39.4	49.4	46.5	44.4	43.0	37.0	31.7	30.6	29.3
11/04/2025 03:45:01	11/04/2025 04:00:01	00:15:00	40.9	51.3	48.1	46.0	44.6	38.6	33.8	33.0	31.6
11/04/2025 04:00:01	11/04/2025 04:15:01	00:15:00	40.9	51.5	48.7	46.2	44.5	38.6	33.0	32.3	31.4
11/04/2025 04:15:01	11/04/2025 04:30:01	00:15:00	40.1	50.7	47.0	45.1	43.6	38.3	32.6	31.3	30.4
11/04/2025 04:30:01	11/04/2025 04:45:01	00:15:00	43.8	55.0	49.9	48.0	46.9	42.5	37.2	35.8	34.4
11/04/2025 04:45:01	11/04/2025 05:00:01	00:15:00	48.3	71.0	59.2	48.8	47.3	42.8	37.2	35.4	32.5
11/04/2025 05:00:01	11/04/2025 05:15:01	00:15:00	52.4	76.6	62.6	50.6	48.9	44.6	38.8	37.7	36.2
11/04/2025 05:15:02	11/04/2025 05:30:02	00:15:00	49.5	71.1	57.2	51.0	49.7	46.3	43.0	42.0	40.3

ReportId



11/04/2025 05:30:01	11/04/2025 05:45:01	00:15:00	51.0	69.1	62.8	54.0	51.2	46.9	43.3	42.5	41.0
11/04/2025 05:45:01	11/04/2025 06:00:01	00:15:00	59.3	77.0	71.5	66.2	61.3	52.3	48.6	47.8	46.6
11/04/2025 06:00:01	11/04/2025 06:15:01	00:15:00	57.5	72.7	69.5	64.3	60.2	51.2	47.2	46.4	45.1
11/04/2025 06:15:02	11/04/2025 06:30:02	00:15:00	59.1	74.1	70.6	66.4	62.9	50.6	46.9	46.1	44.8
11/04/2025 06:30:01	11/04/2025 06:45:01	00:15:00	59.2	72.7	70.2	66.7	63.4	50.1	47.0	46.3	45.0
11/04/2025 06:45:01	11/04/2025 07:00:01	00:15:00	62.5	75.8	72.9	69.1	66.7	56.0	48.3	47.2	45.6
11/04/2025 07:00:02	11/04/2025 07:15:02	00:15:00	63.0	75.5	72.1	69.4	67.7	57.8	49.5	48.7	47.4
11/04/2025 07:15:01	11/04/2025 07:30:01	00:15:00	61.6	79.3	71.9	68.4	65.7	54.5	49.5	48.9	47.8
11/04/2025 07:30:01	11/04/2025 07:45:01	00:15:00	62.6	76.6	71.7	69.5	67.2	57.3	52.4	51.4	49.6
11/04/2025 07:45:01	11/04/2025 08:00:01	00:15:00	62.9	76.3	72.2	69.5	67.6	56.9	51.8	50.4	48.8
11/04/2025 08:00:01	11/04/2025 08:15:01	00:15:00	61.9	73.4	71.2	68.5	66.6	56.1	52.3	51.8	51.0
11/04/2025 08:15:01	11/04/2025 08:30:01	00:15:00	64.3	77.3	73.4	70.5	69.0	58.8	52.1	51.1	49.3
11/04/2025 08:30:01	11/04/2025 08:45:01	00:15:00	61.9	76.1	71.4	68.7	66.5	55.2	50.2	49.6	48.6
11/04/2025 08:45:01	11/04/2025 09:00:01	00:15:00	63.1	75.3	72.3	69.8	68.2	56.0	49.8	48.9	47.8
11/04/2025 09:00:01	11/04/2025 09:15:01	00:15:00	62.3	79.6	72.7	69.1	67.2	51.1	47.3	46.7	45.2
11/04/2025 09:15:01	11/04/2025 09:30:01	00:15:00	60.6	75.0	72.3	68.1	65.3	49.6	44.7	43.8	42.3
11/04/2025 09:30:02	11/04/2025 09:45:02	00:15:00	61.3	76.5	71.5	68.5	66.4	51.3	44.6	43.6	42.4
11/04/2025 09:45:01	11/04/2025 10:00:01	00:15:00	58.9	73.0	70.3	66.4	63.5	47.2	40.8	39.8	38.8
11/04/2025 10:00:01	11/04/2025 10:15:01	00:15:00	59.4	74.3	69.8	67.1	64.7	47.7	40.3	39.4	38.2
11/04/2025 10:15:01	11/04/2025 10:30:01	00:15:00	59.6	75.9	70.4	67.5	64.1	46.0	37.6	36.6	35.2
11/04/2025 10:30:02	11/04/2025 10:45:02	00:15:00	58.9	72.7	69.6	66.9	64.2	45.2	36.2	34.8	33.5
11/04/2025 10:45:01	11/04/2025 11:00:01	00:15:00	60.4	74.0	70.8	67.6	65.3	49.9	37.9	36.2	34.3
11/04/2025 11:00:01	11/04/2025 11:15:01	00:15:00	59.6	73.2	70.0	67.3	65.0	46.9	37.5	35.8	34.4
11/04/2025 11:15:01	11/04/2025 11:30:01	00:15:00	60.6	76.7	70.1	67.5	65.8	50.8	40.6	38.9	36.2
11/04/2025 11:30:02	11/04/2025 11:45:02	00:15:00	59.8	74.6	71.1	67.7	64.3	46.1	36.7	35.8	34.0
11/04/2025 11:45:01	11/04/2025 12:00:01	00:15:00	60.3	75.2	71.0	67.8	65.1	49.3	37.6	36.1	34.2

ReportId



11/04/2025 12:00:02	11/04/2025 12:15:02	00:15:00	59.7	74.0	69.9	67.1	65.0	48.3	38.9	37.3	34.9
11/04/2025 12:15:01	11/04/2025 12:30:01	00:15:00	58.4	73.6	69.7	66.4	62.9	45.5	38.4	37.3	35.9
11/04/2025 12:30:01	11/04/2025 12:45:01	00:15:00	60.1	74.8	70.4	67.4	65.3	49.3	40.3	38.2	36.0
11/04/2025 12:45:01	11/04/2025 13:00:01	00:15:00	59.8	73.3	70.7	67.7	64.8	48.4	38.7	37.4	36.0
11/04/2025 13:00:02	11/04/2025 13:15:02	00:15:00	60.8	80.3	71.9	67.7	65.2	49.7	39.4	37.8	35.5
11/04/2025 13:15:01	11/04/2025 13:30:01	00:15:00	59.9	72.6	70.1	67.3	65.1	48.5	39.9	38.9	37.4
11/04/2025 13:30:01	11/04/2025 13:45:01	00:15:00	59.8	73.5	70.2	67.5	65.1	47.1	40.5	39.8	38.4
11/04/2025 13:45:01	11/04/2025 14:00:01	00:15:00	59.8	74.2	69.9	67.2	65.3	48.7	40.9	40.1	39.0
11/04/2025 14:00:02	11/04/2025 14:15:02	00:15:00	59.1	72.8	69.5	66.7	64.5	48.0	39.7	38.6	37.6
11/04/2025 14:15:01	11/04/2025 14:30:01	00:15:00	60.2	78.0	70.7	67.2	65.3	50.3	43.2	42.0	40.4
11/04/2025 14:30:01	11/04/2025 14:45:01	00:15:00	59.7	72.9	69.8	66.8	64.6	51.5	43.4	42.1	40.5
11/04/2025 14:45:01	11/04/2025 15:00:01	00:15:00	59.8	73.7	69.7	66.8	65.1	50.4	42.6	41.7	40.3
11/04/2025 15:00:02	11/04/2025 15:15:02	00:15:00	60.8	75.0	70.4	67.7	65.8	53.0	43.8	42.3	40.3
11/04/2025 15:15:01	11/04/2025 15:30:01	00:15:00	60.0	75.1	70.8	67.4	64.8	48.7	41.8	40.8	39.5
11/04/2025 15:30:02	11/04/2025 15:45:02	00:15:00	59.6	73.3	70.4	66.7	64.6	51.1	44.9	43.4	40.6
11/04/2025 15:45:01	11/04/2025 16:00:01	00:15:00	60.6	72.3	70.1	67.4	65.8	52.4	45.7	44.7	43.4
11/04/2025 16:00:01	11/04/2025 16:15:01	00:15:00	60.4	74.0	70.1	67.7	65.6	53.1	44.9	43.5	41.0
11/04/2025 16:15:01	11/04/2025 16:30:01	00:15:00	59.6	74.3	69.1	66.8	64.8	51.9	41.6	40.3	39.1
11/04/2025 16:30:02	11/04/2025 16:45:02	00:15:00	61.4	76.5	71.9	68.0	65.9	53.1	42.4	41.2	39.8
11/04/2025 16:45:01	11/04/2025 16:47:23	00:02:22	56.9	72.8	70.0	65.1	58.6	43.5	40.0	39.5	38.7

ReportId

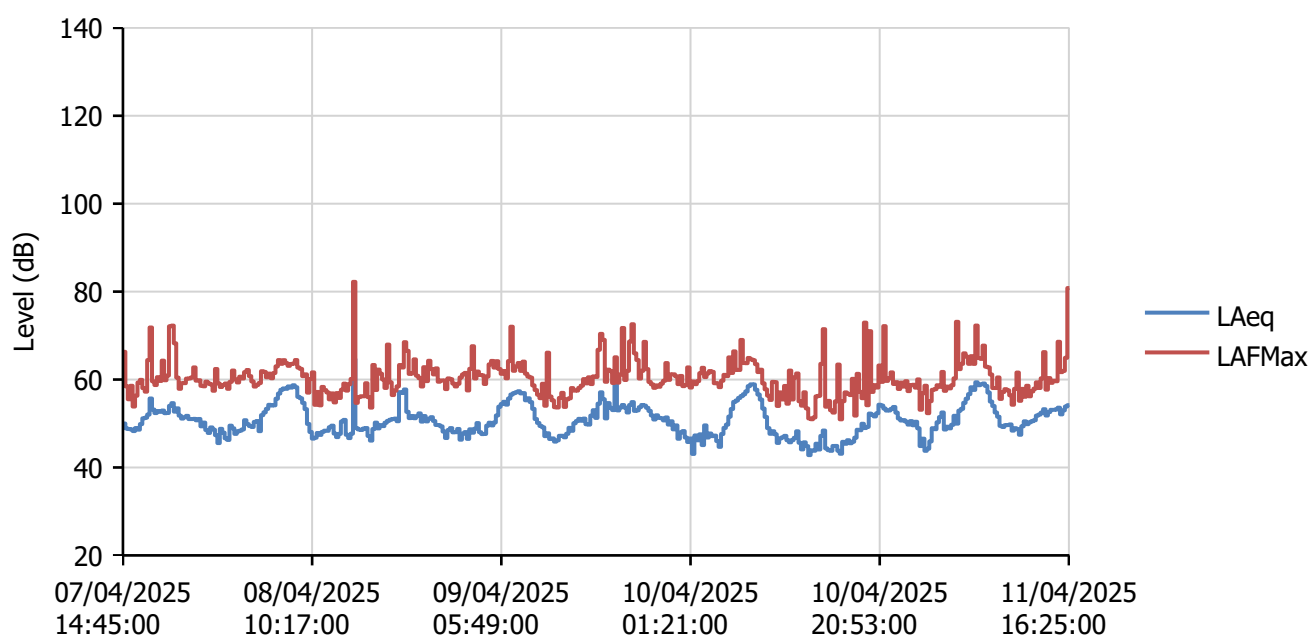


RECEIVED: 08/07/2025

Measurement List Report

Name NMP2
Start Time 07/04/2025 14:45:00
End Time 11/04/2025 16:27:58

Calibration Before	07/04/2025 13:00:51	Offset	0.37 dB
Calibration After	11/04/2025 16:28:37	Offset	0.45 dB



Start Time	End Time	Duration	LAeq (dB)	LAFMax	Ln1	Ln2	Ln3	Ln4	Ln5	Ln6	Ln7
07/04/2025 14:45:00	07/04/2025 15:00:00	00:15:00	50.0	66.3	54.7	52.6	51.7	49.2	46.9	45.9	44.4
07/04/2025 15:00:01	07/04/2025 15:15:01	00:15:00	48.9	58.5	52.9	51.6	50.9	48.4	45.7	45.2	43.6
07/04/2025 15:15:02	07/04/2025 15:30:02	00:15:00	48.7	55.5	52.4	51.2	50.5	48.3	46.4	46.0	45.3
07/04/2025 15:30:01	07/04/2025 15:45:01	00:15:00	48.7	58.6	53.7	51.3	50.2	48.1	46.0	45.4	44.3
07/04/2025 15:45:01	07/04/2025 16:00:01	00:15:00	48.3	53.9	51.7	50.7	50.1	47.9	45.7	45.1	44.3

ReportId


07/04/2025 16:00:01	07/04/2025 16:15:01	00:15:00	49.0	56.3	53.3	51.6	50.8	48.5	46.1	45.3	44.4
07/04/2025 16:15:02	07/04/2025 16:30:02	00:15:00	48.6	59.3	53.9	51.5	50.4	47.9	45.8	45.3	44.4
07/04/2025 16:30:01	07/04/2025 16:45:01	00:15:00	49.9	59.9	54.6	52.7	51.7	49.2	47.2	46.7	44.9
07/04/2025 16:45:01	07/04/2025 17:00:01	00:15:00	51.2	58.1	54.9	53.8	53.3	50.8	48.0	47.4	46.2
07/04/2025 17:00:01	07/04/2025 17:15:01	00:15:00	51.3	57.2	55.0	54.0	53.5	50.7	48.5	47.9	47.1
07/04/2025 17:15:02	07/04/2025 17:30:02	00:15:00	52.0	64.4	56.0	54.7	54.1	51.6	48.6	47.5	46.1
07/04/2025 17:30:01	07/04/2025 17:45:01	00:15:00	55.7	71.8	66.4	58.9	56.0	53.0	50.4	49.8	48.9
07/04/2025 17:45:01	07/04/2025 18:00:01	00:15:00	53.2	59.6	57.0	55.7	55.0	52.8	50.4	49.6	48.4
07/04/2025 18:00:01	07/04/2025 18:15:01	00:15:00	52.4	58.8	56.4	55.0	54.3	52.0	49.3	48.7	47.4
07/04/2025 18:15:01	07/04/2025 18:30:01	00:15:00	52.8	60.5	56.8	55.4	54.7	52.4	50.2	49.6	48.2
07/04/2025 18:30:01	07/04/2025 18:45:01	00:15:00	52.7	59.7	56.7	55.4	54.6	52.2	49.7	49.1	48.1
07/04/2025 18:45:01	07/04/2025 19:00:01	00:15:00	53.0	64.3	61.8	55.9	54.6	51.7	48.9	48.0	46.3
07/04/2025 19:00:01	07/04/2025 19:15:01	00:15:00	52.4	59.8	57.5	55.8	54.9	51.6	47.8	46.3	44.7
07/04/2025 19:15:01	07/04/2025 19:30:01	00:15:00	52.4	60.9	57.2	55.6	54.8	51.8	48.4	47.4	45.8
07/04/2025 19:30:01	07/04/2025 19:45:01	00:15:00	54.0	72.1	64.2	56.4	54.9	52.1	49.3	48.6	47.5
07/04/2025 19:45:01	07/04/2025 20:00:01	00:15:00	54.6	72.3	66.7	56.3	54.8	51.9	49.0	48.1	46.4
07/04/2025 20:00:01	07/04/2025 20:15:01	00:15:00	52.7	68.3	59.2	57.5	55.3	51.2	48.5	47.9	46.9
07/04/2025 20:15:01	07/04/2025 20:30:01	00:15:00	53.5	60.4	58.9	57.8	56.9	52.1	48.1	46.7	44.4
07/04/2025 20:30:01	07/04/2025 20:45:01	00:15:00	51.8	57.9	55.8	54.6	53.9	51.4	48.0	47.2	46.2
07/04/2025 20:45:02	07/04/2025 21:00:02	00:15:00	51.1	59.2	55.3	53.8	53.1	50.6	48.2	47.7	46.4
07/04/2025 21:00:01	07/04/2025 21:15:01	00:15:00	51.4	59.2	55.7	54.4	53.6	50.9	48.2	47.4	45.7
07/04/2025 21:15:01	07/04/2025 21:30:01	00:15:00	51.7	60.2	56.5	55.1	54.3	51.0	46.9	45.7	43.0
07/04/2025 21:30:02	07/04/2025 21:45:02	00:15:00	51.0	60.3	57.4	54.5	53.6	50.0	45.7	44.7	43.4
07/04/2025 21:45:01	07/04/2025 22:00:01	00:15:00	51.0	60.5	56.7	55.0	54.0	50.0	45.3	43.9	40.8
07/04/2025 22:00:01	07/04/2025 22:15:01	00:15:00	51.1	62.8	57.7	54.6	53.3	50.1	46.3	45.4	43.9
07/04/2025 22:15:01	07/04/2025 22:30:01	00:15:00	50.7	59.7	56.8	54.4	53.2	49.8	46.8	46.0	44.5

ReportId



07/04/2025 22:30:02	07/04/2025 22:45:02	00:15:00	51.0	59.8	56.1	54.4	53.4	50.3	47.1	46.1	44.3
07/04/2025 22:45:01	07/04/2025 23:00:01	00:15:00	49.4	58.6	55.2	53.2	52.3	48.2	44.0	43.1	41.2
07/04/2025 23:00:01	07/04/2025 23:15:01	00:15:00	50.2	58.5	55.5	54.0	53.0	49.4	44.6	43.5	41.4
07/04/2025 23:15:01	07/04/2025 23:30:01	00:15:00	48.5	59.5	54.7	52.4	51.2	47.6	42.6	41.1	39.4
07/04/2025 23:30:02	07/04/2025 23:45:02	00:15:00	47.9	59.1	54.7	52.1	50.9	46.4	41.5	40.3	38.1
07/04/2025 23:45:01	08/04/2025 00:00:01	00:15:00	49.1	58.9	55.5	53.7	52.4	47.7	41.7	39.9	37.1
08/04/2025 00:00:01	08/04/2025 00:15:01	00:15:00	48.6	57.5	55.1	53.1	51.8	47.2	39.9	38.1	34.7
08/04/2025 00:15:01	08/04/2025 00:30:01	00:15:00	47.4	62.4	54.8	52.4	51.0	45.1	36.7	35.5	33.0
08/04/2025 00:30:02	08/04/2025 00:45:02	00:15:00	45.6	59.1	54.7	51.9	50.1	40.6	29.0	26.9	24.8
08/04/2025 00:45:01	08/04/2025 01:00:01	00:15:00	48.8	58.3	55.3	53.3	52.1	47.2	41.9	40.2	37.2
08/04/2025 01:00:01	08/04/2025 01:15:01	00:15:00	47.9	58.7	55.0	52.5	51.2	46.3	40.2	34.8	31.7
08/04/2025 01:15:02	08/04/2025 01:30:02	00:15:00	46.6	59.1	54.2	51.8	50.2	44.7	34.7	30.5	27.5
08/04/2025 01:30:01	08/04/2025 01:45:01	00:15:00	46.3	57.9	53.9	51.6	49.7	44.2	36.4	32.0	29.6
08/04/2025 01:45:01	08/04/2025 02:00:01	00:15:00	49.5	59.5	57.3	55.3	53.4	47.3	37.2	31.7	24.4
08/04/2025 02:00:02	08/04/2025 02:15:02	00:15:00	48.9	62.1	58.3	54.5	52.4	46.4	36.2	32.9	26.1
08/04/2025 02:15:01	08/04/2025 02:30:01	00:15:00	47.6	60.0	56.1	53.3	51.4	44.9	32.1	29.6	27.3
08/04/2025 02:30:01	08/04/2025 02:45:01	00:15:00	48.2	59.3	55.9	53.3	51.8	46.0	39.8	37.5	32.1
08/04/2025 02:45:02	08/04/2025 03:00:02	00:15:00	48.4	60.7	56.3	53.8	51.7	46.3	40.9	38.9	32.7
08/04/2025 03:00:01	08/04/2025 03:15:01	00:15:00	48.7	60.2	57.6	53.9	51.9	46.2	40.2	38.5	34.0
08/04/2025 03:15:01	08/04/2025 03:30:01	00:15:00	50.8	61.7	58.6	55.8	54.0	48.5	44.5	43.2	39.7
08/04/2025 03:30:01	08/04/2025 03:45:01	00:15:00	49.9	62.2	57.3	54.6	53.2	47.9	40.2	37.7	34.0
08/04/2025 03:45:01	08/04/2025 04:00:01	00:15:00	49.4	60.8	57.2	54.2	52.5	47.7	40.3	37.5	31.9
08/04/2025 04:00:01	08/04/2025 04:15:01	00:15:00	49.2	59.6	56.5	54.1	52.7	47.5	41.3	39.3	36.5
08/04/2025 04:15:01	08/04/2025 04:30:01	00:15:00	50.4	58.4	56.3	54.6	53.6	49.0	43.3	41.9	40.7
08/04/2025 04:30:02	08/04/2025 04:45:02	00:15:00	50.6	58.8	56.4	54.4	53.2	49.6	46.2	45.1	41.1
08/04/2025 04:45:01	08/04/2025 05:00:01	00:15:00	48.3	59.2	55.5	53.1	51.7	46.5	40.9	39.5	36.6

ReportId



08/04/2025 05:00:01	08/04/2025 05:15:01	00:15:00	51.9	61.9	57.5	55.7	54.7	50.7	47.2	46.3	44.3
08/04/2025 05:15:01	08/04/2025 05:30:01	00:15:00	52.5	61.7	58.1	56.3	55.4	51.5	46.5	45.0	41.8
08/04/2025 05:30:01	08/04/2025 05:45:01	00:15:00	53.3	60.5	58.1	56.7	55.8	52.6	49.5	48.7	47.3
08/04/2025 05:45:01	08/04/2025 06:00:01	00:15:00	54.3	61.4	58.1	56.9	56.3	53.8	51.2	50.3	48.7
08/04/2025 06:00:01	08/04/2025 06:15:01	00:15:00	54.1	60.3	57.9	56.8	56.1	53.7	50.8	50.2	49.2
08/04/2025 06:15:02	08/04/2025 06:30:02	00:15:00	54.1	61.5	58.9	57.1	56.3	53.5	50.7	50.0	48.8
08/04/2025 06:30:01	08/04/2025 06:45:01	00:15:00	55.6	63.0	60.5	58.6	57.7	55.1	52.2	51.4	50.4
08/04/2025 06:45:01	08/04/2025 07:00:01	00:15:00	56.8	64.4	61.4	60.0	59.1	56.1	53.1	52.2	50.3
08/04/2025 07:00:01	08/04/2025 07:15:01	00:15:00	57.7	63.6	62.0	60.6	59.9	57.3	53.8	52.6	50.4
08/04/2025 07:15:01	08/04/2025 07:30:01	00:15:00	58.0	64.4	62.3	61.1	60.3	57.3	54.6	54.0	52.8
08/04/2025 07:30:01	08/04/2025 07:45:01	00:15:00	57.9	63.7	61.4	60.3	59.6	57.5	55.5	54.9	53.9
08/04/2025 07:45:01	08/04/2025 08:00:01	00:15:00	58.4	63.1	61.2	60.3	59.9	58.3	56.3	55.7	54.9
08/04/2025 08:00:01	08/04/2025 08:15:01	00:15:00	58.2	63.5	61.3	60.4	59.8	57.8	55.8	55.1	54.0
08/04/2025 08:15:01	08/04/2025 08:30:01	00:15:00	58.7	63.6	61.9	61.0	60.4	58.4	56.4	55.9	54.8
08/04/2025 08:30:01	08/04/2025 08:45:01	00:15:00	58.3	64.4	61.8	60.8	60.1	57.9	55.4	54.9	53.9
08/04/2025 08:45:01	08/04/2025 09:00:01	00:15:00	56.1	62.7	59.9	58.6	58.0	55.7	53.3	52.7	51.5
08/04/2025 09:00:02	08/04/2025 09:15:02	00:15:00	55.7	62.4	59.7	58.2	57.4	55.3	53.2	52.7	51.8
08/04/2025 09:15:01	08/04/2025 09:30:01	00:15:00	54.7	60.8	58.7	57.4	56.6	54.1	52.4	52.0	51.2
08/04/2025 09:30:01	08/04/2025 09:45:01	00:15:00	53.3	61.2	57.6	56.2	55.3	52.7	50.6	50.1	49.3
08/04/2025 09:45:01	08/04/2025 10:00:01	00:15:00	49.9	57.0	52.9	51.8	51.3	49.6	47.8	47.3	46.6
08/04/2025 10:00:02	08/04/2025 10:15:02	00:15:00	48.1	60.1	52.9	50.8	49.9	47.4	45.6	45.2	44.4
08/04/2025 10:15:01	08/04/2025 10:30:01	00:15:00	46.6	61.6	51.7	48.9	47.9	45.8	44.0	43.6	42.6
08/04/2025 10:30:01	08/04/2025 10:45:01	00:15:00	46.8	54.3	50.5	49.3	48.8	46.3	43.9	43.4	42.5
08/04/2025 10:45:01	08/04/2025 11:00:01	00:15:00	47.8	57.2	51.6	50.3	49.6	47.4	45.4	45.0	44.0
08/04/2025 11:00:02	08/04/2025 11:15:02	00:15:00	47.4	54.1	50.9	49.6	48.9	47.1	45.2	44.7	43.9
08/04/2025 11:15:01	08/04/2025 11:30:01	00:15:00	48.1	58.3	52.3	50.6	49.9	47.7	45.1	43.8	42.0

ReportId



08/04/2025 11:30:01	08/04/2025 11:45:01	00:15:00	48.4	57.6	52.6	51.1	50.1	47.8	46.1	45.6	44.8
08/04/2025 11:45:01	08/04/2025 12:00:01	00:15:00	48.3	57.1	52.5	50.8	49.9	47.9	46.0	45.5	44.4
08/04/2025 12:00:02	08/04/2025 12:15:02	00:15:00	49.2	55.5	53.4	52.1	51.3	48.5	46.5	46.0	44.5
08/04/2025 12:15:01	08/04/2025 12:30:01	00:15:00	49.5	56.9	53.4	52.2	51.5	48.9	47.2	46.7	45.6
08/04/2025 12:30:02	08/04/2025 12:45:02	00:15:00	47.7	54.8	52.6	51.3	50.7	46.3	43.4	42.8	42.1
08/04/2025 12:45:01	08/04/2025 13:00:01	00:15:00	46.9	56.9	51.4	49.7	48.8	46.3	44.3	43.7	42.8
08/04/2025 13:00:01	08/04/2025 13:15:01	00:15:00	47.7	55.8	52.5	50.9	50.1	46.9	43.9	43.1	41.9
08/04/2025 13:15:01	08/04/2025 13:30:01	00:15:00	50.5	57.7	55.1	53.5	52.7	49.8	47.4	46.8	45.0
08/04/2025 13:30:02	08/04/2025 13:45:02	00:15:00	50.8	59.1	55.4	53.7	53.0	50.2	47.2	46.5	45.5
08/04/2025 13:45:01	08/04/2025 14:00:01	00:15:00	47.4	57.5	53.0	51.2	50.1	46.3	43.6	42.7	40.9
08/04/2025 14:00:01	08/04/2025 14:15:01	00:15:00	46.7	58.9	52.3	50.1	48.7	45.8	43.4	42.7	41.7
08/04/2025 14:15:01	08/04/2025 14:30:01	00:15:00	47.7	60.1	54.9	52.0	50.3	46.2	43.7	43.2	42.5
08/04/2025 14:30:02	08/04/2025 14:45:02	00:15:00	64.6	82.2	79.1	72.3	63.3	47.0	43.3	42.7	41.8
08/04/2025 14:45:01	08/04/2025 15:00:01	00:15:00	48.9	54.7	53.0	51.7	51.0	48.3	46.4	45.9	45.1
08/04/2025 15:00:01	08/04/2025 15:15:01	00:15:00	48.6	56.0	51.9	51.0	50.4	48.3	46.2	45.5	44.6
08/04/2025 15:15:01	08/04/2025 15:30:01	00:15:00	48.5	56.2	52.3	51.3	50.7	47.9	45.5	45.0	44.3
08/04/2025 15:30:01	08/04/2025 15:45:01	00:15:00	48.9	56.2	52.6	51.4	50.7	48.4	46.1	45.5	44.9
08/04/2025 15:45:01	08/04/2025 16:00:01	00:15:00	49.0	59.2	53.8	51.8	50.8	48.3	46.5	46.1	45.3
08/04/2025 16:00:01	08/04/2025 16:15:01	00:15:00	47.2	56.0	51.7	50.1	49.4	46.5	44.1	43.7	43.2
08/04/2025 16:15:01	08/04/2025 16:30:01	00:15:00	46.1	53.6	50.8	48.4	47.7	45.6	43.8	43.4	42.9
08/04/2025 16:30:01	08/04/2025 16:45:01	00:15:00	48.7	63.3	54.0	51.3	50.3	48.1	46.0	45.5	44.4
08/04/2025 16:45:01	08/04/2025 17:00:01	00:15:00	50.2	57.6	53.5	52.4	51.9	49.9	47.7	47.2	46.3
08/04/2025 17:00:02	08/04/2025 17:15:02	00:15:00	48.9	62.3	56.6	52.8	51.3	47.3	44.9	44.3	43.2
08/04/2025 17:15:01	08/04/2025 17:30:01	00:15:00	49.6	61.3	56.5	53.4	51.9	48.3	45.9	45.2	43.4
08/04/2025 17:30:01	08/04/2025 17:45:01	00:15:00	49.4	60.0	54.1	51.8	51.1	49.0	46.5	45.9	44.9
08/04/2025 17:45:02	08/04/2025 18:00:02	00:15:00	50.2	58.1	53.8	52.5	51.8	49.8	47.8	47.3	46.3

ReportId



08/04/2025 18:00:01	08/04/2025 18:15:01	00:15:00	50.6	68.0	54.1	52.8	52.2	50.2	48.1	47.4	46.6
08/04/2025 18:15:01	08/04/2025 18:30:01	00:15:00	50.9	59.4	54.6	53.2	52.6	50.5	48.3	47.7	46.7
08/04/2025 18:30:01	08/04/2025 18:45:01	00:15:00	51.0	56.5	54.6	53.5	52.9	50.6	48.4	48.0	47.1
08/04/2025 18:45:02	08/04/2025 19:00:02	00:15:00	51.1	57.5	55.3	53.8	53.1	50.6	48.4	47.8	47.0
08/04/2025 19:00:01	08/04/2025 19:15:01	00:15:00	50.5	58.5	54.4	53.0	52.4	50.2	47.4	46.6	45.2
08/04/2025 19:15:01	08/04/2025 19:30:01	00:15:00	57.1	63.3	61.7	60.7	60.1	55.9	52.2	51.5	50.3
08/04/2025 19:30:01	08/04/2025 19:45:01	00:15:00	56.9	62.7	61.3	60.5	59.8	55.9	52.4	51.7	50.6
08/04/2025 19:45:02	08/04/2025 20:00:02	00:15:00	57.7	68.5	62.1	61.1	60.6	56.4	52.7	51.1	49.4
08/04/2025 20:00:01	08/04/2025 20:15:01	00:15:00	52.7	66.5	60.7	56.9	54.5	51.1	48.4	47.5	46.2
08/04/2025 20:15:01	08/04/2025 20:30:01	00:15:00	51.2	61.3	56.7	54.7	53.4	50.4	47.9	47.2	45.9
08/04/2025 20:30:02	08/04/2025 20:45:02	00:15:00	51.7	61.4	55.8	54.5	53.8	51.1	48.6	47.8	46.7
08/04/2025 20:45:01	08/04/2025 21:00:01	00:15:00	51.2	64.6	55.5	54.3	53.6	50.8	46.3	44.4	41.8
08/04/2025 21:00:01	08/04/2025 21:15:01	00:15:00	51.7	60.9	56.6	54.7	53.8	51.2	47.7	46.3	42.9
08/04/2025 21:15:02	08/04/2025 21:30:02	00:15:00	52.3	60.3	57.0	55.5	54.7	51.7	47.9	47.0	45.6
08/04/2025 21:30:01	08/04/2025 21:45:01	00:15:00	50.4	58.4	55.6	54.0	53.1	49.5	46.2	44.4	39.8
08/04/2025 21:45:01	08/04/2025 22:00:01	00:15:00	51.7	62.8	56.7	55.3	54.3	50.8	47.1	46.0	44.3
08/04/2025 22:00:01	08/04/2025 22:15:01	00:15:00	50.5	59.6	56.8	54.9	53.8	48.8	43.6	42.5	39.9
08/04/2025 22:15:02	08/04/2025 22:30:02	00:15:00	51.1	64.3	57.2	55.2	54.1	50.0	43.5	40.1	34.0
08/04/2025 22:30:01	08/04/2025 22:45:01	00:15:00	51.4	62.4	57.8	55.9	54.6	50.0	44.7	43.1	37.9
08/04/2025 22:45:01	08/04/2025 23:00:01	00:15:00	50.6	61.2	57.7	55.2	53.8	48.8	43.5	42.4	41.0
08/04/2025 23:00:01	08/04/2025 23:15:01	00:15:00	49.7	62.5	55.9	54.3	53.3	48.1	41.1	39.5	36.6
08/04/2025 23:15:02	08/04/2025 23:30:02	00:15:00	49.6	59.5	56.1	54.0	52.9	48.2	42.5	41.0	36.3
08/04/2025 23:30:01	08/04/2025 23:45:01	00:15:00	49.4	59.8	56.0	53.9	52.8	47.7	41.8	40.5	38.4
08/04/2025 23:45:01	09/04/2025 00:00:01	00:15:00	48.2	59.8	56.3	53.3	51.6	45.9	40.0	38.1	35.4
09/04/2025 00:00:01	09/04/2025 00:15:01	00:15:00	46.7	57.8	54.5	51.9	50.3	44.4	35.2	32.0	29.1
09/04/2025 00:15:02	09/04/2025 00:30:02	00:15:00	48.5	60.3	55.5	53.3	52.2	46.8	37.7	35.2	32.4

ReportId



09/04/2025 00:30:01	09/04/2025 00:45:01	00:15:00	49.0	60.1	56.3	53.8	52.6	47.1	34.7	25.7	22.7
09/04/2025 00:45:01	09/04/2025 01:00:01	00:15:00	48.0	59.1	55.2	52.9	51.6	46.0	38.4	36.3	32.9
09/04/2025 01:00:01	09/04/2025 01:15:01	00:15:00	48.0	58.4	55.4	53.1	51.8	45.8	37.0	35.6	33.0
09/04/2025 01:15:02	09/04/2025 01:30:02	00:15:00	48.8	59.0	55.6	53.4	52.1	47.1	40.3	39.1	37.6
09/04/2025 01:30:01	09/04/2025 01:45:01	00:15:00	46.3	60.5	54.3	52.2	50.8	42.4	33.8	32.1	30.2
09/04/2025 01:45:01	09/04/2025 02:00:01	00:15:00	47.7	61.2	56.3	53.4	51.9	44.0	26.3	23.6	22.0
09/04/2025 02:00:01	09/04/2025 02:15:01	00:15:00	48.1	61.5	56.8	53.6	52.1	44.2	24.4	22.4	21.4
09/04/2025 02:15:01	09/04/2025 02:30:01	00:15:00	46.5	57.5	55.2	53.2	51.2	42.1	25.2	22.5	21.0
09/04/2025 02:30:01	09/04/2025 02:45:01	00:15:00	48.7	62.4	56.4	53.9	52.3	46.4	29.7	24.5	22.7
09/04/2025 02:45:01	09/04/2025 03:00:01	00:15:00	47.9	67.6	57.1	53.6	51.6	43.5	25.2	22.3	21.0
09/04/2025 03:00:02	09/04/2025 03:15:02	00:15:00	48.8	60.2	57.1	54.2	52.4	46.5	36.5	34.0	30.4
09/04/2025 03:15:01	09/04/2025 03:30:01	00:15:00	50.1	61.8	58.4	55.9	54.4	46.9	32.8	29.5	27.9
09/04/2025 03:30:01	09/04/2025 03:45:01	00:15:00	48.0	61.0	56.1	53.9	52.4	44.5	34.9	32.2	30.1
09/04/2025 03:45:01	09/04/2025 04:00:01	00:15:00	47.6	61.0	56.4	53.7	51.8	43.5	36.5	34.5	30.1
09/04/2025 04:00:02	09/04/2025 04:15:02	00:15:00	47.6	59.0	56.2	53.8	52.2	43.2	33.6	30.0	27.4
09/04/2025 04:15:01	09/04/2025 04:30:01	00:15:00	49.5	60.7	57.5	55.2	53.7	46.3	37.8	34.5	31.7
09/04/2025 04:30:01	09/04/2025 04:45:01	00:15:00	50.2	63.5	58.9	56.0	54.1	46.3	37.9	34.6	32.3
09/04/2025 04:45:02	09/04/2025 05:00:02	00:15:00	49.6	64.2	58.6	55.5	53.7	45.8	38.3	36.6	34.1
09/04/2025 05:00:01	09/04/2025 05:15:01	00:15:00	50.2	62.7	58.8	55.9	54.0	46.7	39.4	37.8	35.1
09/04/2025 05:15:01	09/04/2025 05:30:01	00:15:00	51.8	64.2	59.2	56.9	55.3	49.7	44.8	43.8	42.1
09/04/2025 05:30:02	09/04/2025 05:45:02	00:15:00	53.8	62.4	59.4	57.9	56.8	52.6	48.8	47.7	45.2
09/04/2025 05:45:01	09/04/2025 06:00:01	00:15:00	54.4	61.3	58.7	57.2	56.4	54.0	50.8	49.6	48.1
09/04/2025 06:00:01	09/04/2025 06:15:01	00:15:00	54.9	62.0	58.7	57.6	56.9	54.6	51.5	50.7	49.3
09/04/2025 06:15:01	09/04/2025 06:30:01	00:15:00	54.3	60.3	58.1	57.0	56.3	54.0	50.8	49.8	47.0
09/04/2025 06:30:01	09/04/2025 06:45:01	00:15:00	55.7	64.2	59.7	58.4	57.8	55.2	52.4	51.7	50.4
09/04/2025 06:45:01	09/04/2025 07:00:01	00:15:00	56.6	72.0	60.9	58.8	58.1	55.9	53.5	52.7	51.6

ReportId



09/04/2025 07:00:01	09/04/2025 07:15:01	00:15:00	56.9	62.0	60.3	59.4	58.7	56.6	54.3	53.5	51.6
09/04/2025 07:15:01	09/04/2025 07:30:01	00:15:00	57.1	63.0	60.6	59.6	59.0	56.8	54.0	53.2	51.4
09/04/2025 07:30:01	09/04/2025 07:45:01	00:15:00	57.3	63.8	60.5	59.5	59.0	57.1	55.0	54.3	52.7
09/04/2025 07:45:01	09/04/2025 08:00:01	00:15:00	56.9	62.0	59.8	58.7	58.3	56.7	54.8	54.3	53.1
09/04/2025 08:00:01	09/04/2025 08:15:01	00:15:00	56.9	64.1	60.4	59.2	58.6	56.6	54.3	53.6	52.8
09/04/2025 08:15:01	09/04/2025 08:30:01	00:15:00	55.3	61.3	58.7	57.6	57.1	54.9	52.7	52.2	51.3
09/04/2025 08:30:02	09/04/2025 08:45:02	00:15:00	55.7	60.7	58.9	57.9	57.4	55.5	53.0	52.2	50.9
09/04/2025 08:45:01	09/04/2025 09:00:01	00:15:00	54.9	60.4	58.6	57.4	56.7	54.4	52.3	51.6	49.8
09/04/2025 09:00:01	09/04/2025 09:15:01	00:15:00	53.3	58.7	56.9	55.5	54.7	53.0	51.5	51.0	50.1
09/04/2025 09:15:02	09/04/2025 09:30:02	00:15:00	51.0	57.6	54.3	53.0	52.4	50.7	49.2	48.8	48.1
09/04/2025 09:30:01	09/04/2025 09:45:01	00:15:00	50.1	56.6	53.8	52.6	51.9	49.7	47.7	46.7	45.2
09/04/2025 09:45:01	09/04/2025 10:00:01	00:15:00	49.5	55.8	53.3	51.8	51.1	49.0	47.4	47.1	46.3
09/04/2025 10:00:02	09/04/2025 10:15:02	00:15:00	49.1	59.0	53.4	51.6	50.9	48.6	46.5	46.0	45.0
09/04/2025 10:15:01	09/04/2025 10:30:01	00:15:00	47.1	54.0	51.6	50.1	49.3	46.4	44.0	43.3	42.4
09/04/2025 10:30:01	09/04/2025 10:45:01	00:15:00	47.8	66.1	51.8	50.4	49.6	47.2	44.8	44.1	42.7
09/04/2025 10:45:01	09/04/2025 11:00:01	00:15:00	46.5	56.1	50.8	49.1	48.3	45.9	44.1	43.7	43.0
09/04/2025 11:00:02	09/04/2025 11:15:02	00:15:00	46.6	55.3	50.8	49.0	48.1	46.1	44.6	44.1	43.3
09/04/2025 11:15:01	09/04/2025 11:30:01	00:15:00	45.9	53.7	50.1	48.8	48.0	45.2	43.1	42.6	41.4
09/04/2025 11:30:01	09/04/2025 11:45:01	00:15:00	46.2	53.6	50.2	48.8	48.1	45.5	43.8	43.4	42.6
09/04/2025 11:45:02	09/04/2025 12:00:02	00:15:00	47.2	55.8	51.1	49.5	48.7	46.7	45.3	44.8	43.9
09/04/2025 12:00:01	09/04/2025 12:15:01	00:15:00	47.2	57.0	51.9	50.1	49.1	46.6	44.2	43.6	42.4
09/04/2025 12:15:01	09/04/2025 12:30:01	00:15:00	46.9	53.8	50.9	49.5	48.6	46.4	44.4	43.8	42.9
09/04/2025 12:30:02	09/04/2025 12:45:02	00:15:00	47.7	55.5	52.6	50.5	49.4	47.2	44.5	43.7	42.7
09/04/2025 12:45:01	09/04/2025 13:00:01	00:15:00	49.0	55.7	52.6	51.4	50.9	48.6	46.1	45.6	44.7
09/04/2025 13:00:01	09/04/2025 13:15:01	00:15:00	48.3	58.1	53.1	51.6	50.5	47.6	45.3	44.7	43.4
09/04/2025 13:15:01	09/04/2025 13:30:01	00:15:00	50.1	57.5	54.4	53.0	52.2	49.4	46.9	46.4	45.2

ReportId



09/04/2025 13:30:01	09/04/2025 13:45:01	00:15:00	50.6	57.5	55.1	53.6	52.8	49.9	47.4	46.7	45.7
09/04/2025 13:45:01	09/04/2025 14:00:01	00:15:00	51.1	58.1	55.8	54.0	53.1	50.5	48.0	47.3	46.2
09/04/2025 14:00:01	09/04/2025 14:15:01	00:15:00	50.6	58.6	55.0	53.4	52.7	50.0	47.6	46.9	45.3
09/04/2025 14:15:01	09/04/2025 14:30:01	00:15:00	51.1	60.1	55.5	53.7	53.0	50.6	48.3	47.8	46.2
09/04/2025 14:30:01	09/04/2025 14:45:01	00:15:00	49.8	59.1	54.3	52.4	51.6	49.3	47.4	46.8	45.1
09/04/2025 14:45:01	09/04/2025 15:00:01	00:15:00	49.8	60.5	54.3	52.5	51.7	49.2	46.6	45.8	44.2
09/04/2025 15:00:01	09/04/2025 15:15:01	00:15:00	51.8	59.0	56.6	55.1	54.3	50.9	48.6	48.1	47.4
09/04/2025 15:15:02	09/04/2025 15:30:02	00:15:00	53.0	60.7	56.9	55.6	54.9	52.6	50.2	49.3	47.9
09/04/2025 15:30:01	09/04/2025 15:45:01	00:15:00	51.3	60.6	55.6	53.9	53.2	50.8	48.3	47.6	46.0
09/04/2025 15:45:01	09/04/2025 16:00:01	00:15:00	54.5	66.8	63.8	59.0	57.1	51.8	48.6	48.0	47.0
09/04/2025 16:00:01	09/04/2025 16:15:01	00:15:00	57.1	70.4	65.9	63.4	61.6	53.2	49.4	48.7	47.8
09/04/2025 16:15:02	09/04/2025 16:30:02	00:15:00	55.5	69.0	64.7	60.7	58.4	52.7	50.0	49.2	48.1
09/04/2025 16:30:01	09/04/2025 16:45:01	00:15:00	51.2	59.5	55.6	54.3	53.5	50.5	47.7	47.1	46.2
09/04/2025 16:45:01	09/04/2025 17:00:01	00:15:00	54.7	62.3	60.7	59.3	58.2	53.2	48.8	48.2	47.3
09/04/2025 17:00:01	09/04/2025 17:15:01	00:15:00	53.6	61.9	59.3	57.1	56.0	52.5	50.1	49.3	48.0
09/04/2025 17:15:01	09/04/2025 17:30:01	00:15:00	53.1	59.2	56.9	55.6	55.0	52.8	49.8	48.9	47.8
09/04/2025 17:30:01	09/04/2025 17:45:01	00:15:00	58.9	65.1	63.2	61.8	61.2	58.4	54.7	54.0	53.0
09/04/2025 17:45:01	09/04/2025 18:00:01	00:15:00	53.0	59.3	56.5	55.3	54.7	52.7	50.5	50.0	48.7
09/04/2025 18:00:02	09/04/2025 18:15:02	00:15:00	53.6	61.1	57.6	56.3	55.7	53.2	50.6	49.7	47.6
09/04/2025 18:15:01	09/04/2025 18:30:01	00:15:00	54.2	71.7	60.4	56.7	55.7	53.2	50.8	49.8	48.4
09/04/2025 18:30:01	09/04/2025 18:45:01	00:15:00	53.6	59.9	57.3	56.1	55.4	53.2	50.9	50.3	49.1
09/04/2025 18:45:01	09/04/2025 19:00:01	00:15:00	52.5	62.0	56.7	55.1	54.3	52.0	49.8	49.1	47.5
09/04/2025 19:00:02	09/04/2025 19:15:02	00:15:00	54.2	68.6	65.5	56.5	55.0	52.4	49.5	48.8	47.7
09/04/2025 19:15:01	09/04/2025 19:30:01	00:15:00	54.9	72.6	67.5	56.9	54.8	51.8	49.4	48.6	47.1
09/04/2025 19:30:01	09/04/2025 19:45:01	00:15:00	52.9	66.0	57.4	55.5	54.8	52.2	49.8	49.3	48.0
09/04/2025 19:45:01	09/04/2025 20:00:01	00:15:00	53.0	64.4	56.8	55.5	54.8	52.6	50.2	49.1	47.9

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09/04/2025 20:00:02	09/04/2025 20:15:02	00:15:00	53.7	60.2	57.7	56.5	55.7	53.2	50.9	50.2	49.1
09/04/2025 20:15:01	09/04/2025 20:30:01	00:15:00	54.2	62.0	58.5	56.9	56.3	53.8	50.7	50.1	49.0
09/04/2025 20:30:02	09/04/2025 20:45:02	00:15:00	54.1	68.6	57.8	56.8	56.1	53.5	51.3	50.6	49.2
09/04/2025 20:45:01	09/04/2025 21:00:01	00:15:00	53.6	62.4	57.2	55.9	55.4	53.2	50.7	50.1	49.0
09/04/2025 21:00:01	09/04/2025 21:15:01	00:15:00	52.9	59.5	57.0	55.7	55.0	52.4	49.2	48.0	45.7
09/04/2025 21:15:02	09/04/2025 21:30:02	00:15:00	51.8	58.9	56.0	54.5	53.8	51.5	48.3	46.8	45.2
09/04/2025 21:30:01	09/04/2025 21:45:01	00:15:00	50.9	58.1	55.4	54.2	53.4	50.4	46.5	44.8	40.0
09/04/2025 21:45:01	09/04/2025 22:00:01	00:15:00	51.9	58.7	55.8	54.7	54.1	51.4	48.2	47.4	46.0
09/04/2025 22:00:01	09/04/2025 22:15:01	00:15:00	51.3	58.4	56.0	54.6	53.9	50.6	46.3	44.8	42.1
09/04/2025 22:15:03	09/04/2025 22:30:03	00:15:00	51.2	59.1	56.8	55.5	54.6	49.8	45.3	44.2	41.9
09/04/2025 22:30:01	09/04/2025 22:45:01	00:15:00	50.7	59.7	56.3	54.7	53.8	49.5	43.9	41.8	40.0
09/04/2025 22:45:01	09/04/2025 23:00:01	00:15:00	51.4	63.8	57.4	55.4	54.3	50.2	45.2	44.2	42.4
09/04/2025 23:00:02	09/04/2025 23:15:02	00:15:00	49.8	59.9	55.6	53.8	53.0	48.7	42.3	39.7	34.0
09/04/2025 23:15:01	09/04/2025 23:30:01	00:15:00	50.5	61.2	56.4	54.6	53.7	49.4	43.4	41.4	38.4
09/04/2025 23:30:01	09/04/2025 23:45:01	00:15:00	48.7	61.2	56.9	54.5	52.7	45.5	39.7	38.3	35.8
09/04/2025 23:45:01	10/04/2025 00:00:01	00:15:00	49.6	60.8	57.2	54.5	53.3	47.5	37.2	31.6	28.1
10/04/2025 00:00:02	10/04/2025 00:15:02	00:15:00	46.5	59.0	55.5	52.0	50.4	43.5	35.2	32.9	23.2
10/04/2025 00:15:01	10/04/2025 00:30:01	00:15:00	47.9	60.8	56.6	53.8	51.9	44.5	37.7	35.7	30.6
10/04/2025 00:30:01	10/04/2025 00:45:01	00:15:00	48.3	58.5	55.4	53.6	52.5	45.4	32.8	26.4	23.8
10/04/2025 00:45:01	10/04/2025 01:00:01	00:15:00	46.8	58.8	55.1	52.5	51.0	43.4	32.6	29.3	26.7
10/04/2025 01:00:01	10/04/2025 01:15:01	00:15:00	45.8	62.8	56.2	52.3	49.4	40.7	29.4	27.1	21.3
10/04/2025 01:15:01	10/04/2025 01:30:01	00:15:00	46.6	58.2	56.0	52.9	50.7	42.6	30.6	24.5	22.2
10/04/2025 01:30:02	10/04/2025 01:45:02	00:15:00	43.1	59.6	53.2	48.6	46.8	38.9	26.5	21.6	20.0
10/04/2025 01:45:01	10/04/2025 02:00:01	00:15:00	47.3	59.0	55.7	53.0	51.2	44.0	38.2	35.7	32.2
10/04/2025 02:00:01	10/04/2025 02:15:01	00:15:00	46.2	59.6	55.6	52.6	50.2	41.7	27.4	25.1	20.9
10/04/2025 02:15:01	10/04/2025 02:30:01	00:15:00	47.5	61.4	55.3	53.2	51.5	44.9	33.4	31.1	26.5

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10/04/2025 02:30:02	10/04/2025 02:45:02	00:15:00	45.1	62.7	54.5	51.4	49.4	39.5	26.1	24.1	21.3
10/04/2025 02:45:01	10/04/2025 03:00:01	00:15:00	49.6	60.6	58.1	55.3	53.9	46.0	32.9	29.6	26.2
10/04/2025 03:00:01	10/04/2025 03:15:01	00:15:00	46.8	61.4	55.3	52.3	50.6	43.3	32.5	29.8	25.7
10/04/2025 03:15:01	10/04/2025 03:30:01	00:15:00	47.7	61.9	57.0	53.5	51.2	44.8	36.1	32.8	29.1
10/04/2025 03:30:02	10/04/2025 03:45:02	00:15:00	47.1	61.8	55.2	52.6	51.0	44.1	29.9	26.2	21.9
10/04/2025 03:45:01	10/04/2025 04:00:01	00:15:00	47.3	59.2	55.5	53.5	52.0	43.3	31.1	28.0	25.8
10/04/2025 04:00:01	10/04/2025 04:15:01	00:15:00	46.0	59.2	54.0	51.3	49.6	43.6	36.8	35.6	33.6
10/04/2025 04:15:01	10/04/2025 04:30:01	00:15:00	44.7	58.3	52.9	50.4	48.8	41.4	23.5	22.5	21.4
10/04/2025 04:30:02	10/04/2025 04:45:02	00:15:00	47.6	59.7	55.0	52.3	50.7	45.9	40.1	37.5	27.0
10/04/2025 04:45:01	10/04/2025 05:00:01	00:15:00	49.0	61.1	56.1	53.7	52.4	47.3	38.1	34.3	27.0
10/04/2025 05:00:01	10/04/2025 05:15:01	00:15:00	49.7	60.8	57.1	55.1	53.4	47.5	40.3	36.3	30.4
10/04/2025 05:15:01	10/04/2025 05:30:01	00:15:00	51.6	65.0	57.6	55.6	54.6	50.4	44.6	42.9	40.7
10/04/2025 05:30:01	10/04/2025 05:45:01	00:15:00	53.3	61.5	58.1	56.7	56.1	52.4	47.5	45.8	43.7
10/04/2025 05:45:01	10/04/2025 06:00:01	00:15:00	54.9	66.4	61.2	58.5	57.3	53.8	50.7	49.9	48.4
10/04/2025 06:00:01	10/04/2025 06:15:01	00:15:00	55.2	62.2	59.7	58.4	57.6	54.5	51.5	50.6	49.3
10/04/2025 06:15:02	10/04/2025 06:30:02	00:15:00	55.8	62.2	60.2	58.7	58.1	55.3	51.9	50.9	49.6
10/04/2025 06:30:01	10/04/2025 06:45:01	00:15:00	56.2	69.0	61.1	59.3	58.5	55.4	52.6	51.8	50.8
10/04/2025 06:45:01	10/04/2025 07:00:01	00:15:00	56.7	63.8	60.5	59.3	58.6	56.2	53.6	52.9	51.6
10/04/2025 07:00:01	10/04/2025 07:15:01	00:15:00	57.3	63.7	61.0	60.0	59.4	56.9	53.7	52.9	51.1
10/04/2025 07:15:02	10/04/2025 07:30:02	00:15:00	58.5	64.9	61.6	60.7	60.2	58.2	56.3	56.0	55.2
10/04/2025 07:30:01	10/04/2025 07:45:01	00:15:00	58.9	64.6	61.7	60.8	60.4	58.6	57.0	56.6	55.6
10/04/2025 07:45:01	10/04/2025 08:00:01	00:15:00	58.9	64.4	62.2	61.2	60.6	58.6	56.3	55.3	53.7
10/04/2025 08:00:02	10/04/2025 08:15:02	00:15:00	57.7	63.5	61.3	60.0	59.4	57.4	54.8	54.0	52.3
10/04/2025 08:15:01	10/04/2025 08:30:01	00:15:00	56.6	61.7	59.8	58.8	58.2	56.2	54.4	53.7	52.2
10/04/2025 08:30:01	10/04/2025 08:45:01	00:15:00	55.5	62.2	60.6	57.6	56.9	55.0	52.9	52.3	51.5
10/04/2025 08:45:01	10/04/2025 09:00:01	00:15:00	53.4	59.1	57.1	55.9	55.3	52.9	51.2	50.8	50.1

ReportId



10/04/2025 09:00:02	10/04/2025 09:15:02	00:15:00	51.5	57.8	55.6	54.5	53.9	50.7	48.7	48.4	47.9
10/04/2025 09:15:01	10/04/2025 09:30:01	00:15:00	49.0	56.3	52.5	51.2	50.5	48.5	46.9	46.5	45.9
10/04/2025 09:30:01	10/04/2025 09:45:01	00:15:00	47.7	55.4	51.6	50.2	49.5	47.2	45.0	44.6	43.9
10/04/2025 09:45:01	10/04/2025 10:00:01	00:15:00	48.3	59.5	51.7	50.4	49.8	47.9	45.9	45.5	44.8
10/04/2025 10:00:02	10/04/2025 10:15:02	00:15:00	47.6	59.4	51.4	50.3	49.7	47.0	44.5	43.9	43.1
10/04/2025 10:15:01	10/04/2025 10:30:01	00:15:00	45.6	54.0	50.7	48.3	47.3	44.9	43.3	42.9	41.9
10/04/2025 10:30:01	10/04/2025 10:45:01	00:15:00	46.6	57.1	51.6	49.7	48.8	45.7	44.1	43.7	43.1
10/04/2025 10:45:01	10/04/2025 11:00:01	00:15:00	46.9	55.5	52.0	50.0	49.0	46.1	43.6	43.2	42.3
10/04/2025 11:00:02	10/04/2025 11:15:02	00:15:00	47.2	58.5	51.1	49.7	48.9	46.7	44.9	44.5	43.9
10/04/2025 11:15:01	10/04/2025 11:30:01	00:15:00	46.2	54.5	51.3	49.9	48.8	45.2	42.2	41.6	40.0
10/04/2025 11:30:01	10/04/2025 11:45:01	00:15:00	45.7	62.0	51.4	48.4	47.2	44.7	43.0	42.6	41.9
10/04/2025 11:45:01	10/04/2025 12:00:01	00:15:00	46.2	55.5	50.8	48.9	48.2	45.6	43.8	43.3	42.5
10/04/2025 12:00:02	10/04/2025 12:15:02	00:15:00	46.7	60.5	55.8	50.9	48.6	44.7	42.8	42.3	41.4
10/04/2025 12:15:01	10/04/2025 12:30:01	00:15:00	48.2	61.4	53.3	51.0	50.1	47.6	45.5	44.9	44.0
10/04/2025 12:30:01	10/04/2025 12:45:01	00:15:00	45.6	55.1	50.0	48.5	47.8	45.0	42.8	42.4	41.6
10/04/2025 12:45:01	10/04/2025 13:00:01	00:15:00	44.1	54.1	49.1	47.2	46.2	43.3	41.6	41.1	40.5
10/04/2025 13:00:01	10/04/2025 13:15:01	00:15:00	45.7	57.1	49.3	48.1	47.5	45.3	42.9	42.4	41.5
10/04/2025 13:15:01	10/04/2025 13:30:01	00:15:00	44.9	53.4	48.9	47.4	46.8	44.5	41.9	41.4	40.6
10/04/2025 13:30:02	10/04/2025 13:45:02	00:15:00	42.8	51.2	48.3	46.6	45.6	41.5	39.6	39.2	38.6
10/04/2025 13:45:01	10/04/2025 14:00:01	00:15:00	43.9	51.0	48.3	47.2	46.4	43.1	40.2	38.8	37.3
10/04/2025 14:00:01	10/04/2025 14:15:01	00:15:00	43.8	51.4	47.7	46.7	45.8	43.1	41.6	41.1	39.7
10/04/2025 14:15:01	10/04/2025 14:30:01	00:15:00	45.4	56.2	50.3	48.2	47.1	44.8	42.8	42.1	41.2
10/04/2025 14:30:02	10/04/2025 14:45:02	00:15:00	44.1	56.3	49.4	46.6	45.9	43.5	41.2	40.5	39.1
10/04/2025 14:45:01	10/04/2025 15:00:01	00:15:00	47.2	63.6	58.9	53.1	47.5	42.8	40.8	40.3	39.5
10/04/2025 15:00:01	10/04/2025 15:15:01	00:15:00	48.4	71.5	61.2	47.8	45.6	42.9	41.4	41.1	40.4
10/04/2025 15:15:01	10/04/2025 15:30:01	00:15:00	44.3	53.8	49.9	47.3	46.1	43.6	41.6	41.0	39.8

ReportId



10/04/2025 15:30:02	10/04/2025 15:45:02	00:15:00	43.9	55.2	48.5	46.0	45.2	43.4	42.0	41.7	41.0
10/04/2025 15:45:01	10/04/2025 16:00:01	00:15:00	43.8	53.0	48.3	46.7	45.8	43.1	40.9	40.4	39.5
10/04/2025 16:00:01	10/04/2025 16:15:01	00:15:00	44.9	52.5	48.5	47.2	46.6	44.5	42.6	42.0	39.8
10/04/2025 16:15:01	10/04/2025 16:30:01	00:15:00	44.9	55.0	49.5	48.0	47.2	44.0	42.0	41.5	40.6
10/04/2025 16:30:02	10/04/2025 16:45:02	00:15:00	43.8	63.4	50.5	46.8	45.5	42.4	40.0	39.5	38.6
10/04/2025 16:45:01	10/04/2025 17:00:01	00:15:00	43.1	51.0	47.2	46.0	45.2	42.5	40.2	39.7	39.0
10/04/2025 17:00:02	10/04/2025 17:15:02	00:15:00	45.8	55.1	50.1	48.3	47.6	45.4	43.0	42.2	38.4
10/04/2025 17:15:01	10/04/2025 17:30:01	00:15:00	45.4	57.1	53.9	49.8	47.1	43.7	41.0	40.5	39.3
10/04/2025 17:30:01	10/04/2025 17:45:01	00:15:00	46.2	56.8	51.7	49.5	48.7	45.3	42.4	41.7	40.7
10/04/2025 17:45:01	10/04/2025 18:00:01	00:15:00	45.5	56.5	50.8	48.5	47.6	44.8	42.0	41.1	39.4
10/04/2025 18:00:01	10/04/2025 18:15:01	00:15:00	45.9	60.2	52.5	49.4	47.8	44.9	41.9	41.2	40.0
10/04/2025 18:15:01	10/04/2025 18:30:01	00:15:00	46.8	51.8	49.8	49.0	48.5	46.6	43.9	42.5	41.2
10/04/2025 18:30:01	10/04/2025 18:45:01	00:15:00	48.6	61.3	52.3	51.0	50.3	48.1	46.1	45.7	44.9
10/04/2025 18:45:02	10/04/2025 19:00:02	00:15:00	48.5	57.2	52.3	50.9	50.2	48.1	45.8	45.2	44.1
10/04/2025 19:00:01	10/04/2025 19:15:01	00:15:00	49.9	55.8	53.5	52.5	52.0	49.6	46.2	45.5	44.2
10/04/2025 19:15:01	10/04/2025 19:30:01	00:15:00	49.0	73.0	52.3	51.2	50.6	48.4	45.7	45.0	44.0
10/04/2025 19:30:01	10/04/2025 19:45:01	00:15:00	49.2	54.2	52.5	51.6	51.1	49.0	46.2	45.1	43.0
10/04/2025 19:45:02	10/04/2025 20:00:02	00:15:00	52.3	71.0	55.5	54.5	54.0	51.7	49.1	48.2	45.3
10/04/2025 20:00:01	10/04/2025 20:15:01	00:15:00	52.0	57.2	55.7	54.6	54.0	51.6	48.8	48.1	46.4
10/04/2025 20:15:01	10/04/2025 20:30:01	00:15:00	51.6	58.7	55.4	54.2	53.6	51.2	48.5	47.6	46.4
10/04/2025 20:30:02	10/04/2025 20:45:02	00:15:00	52.3	58.2	55.6	54.8	54.3	52.0	49.2	48.4	47.1
10/04/2025 20:45:01	10/04/2025 21:00:01	00:15:00	54.3	63.2	58.7	57.2	56.3	53.8	50.5	49.6	48.2
10/04/2025 21:00:02	10/04/2025 21:15:02	00:15:00	54.1	59.5	57.9	56.9	56.3	53.6	50.6	49.9	48.3
10/04/2025 21:15:01	10/04/2025 21:30:01	00:15:00	53.4	72.2	57.0	55.7	55.1	52.7	49.6	48.8	47.5
10/04/2025 21:30:01	10/04/2025 21:45:01	00:15:00	52.9	59.7	57.6	56.1	55.3	52.4	48.7	45.6	40.0
10/04/2025 21:45:01	10/04/2025 22:00:01	00:15:00	53.0	60.3	58.1	56.7	55.6	52.2	47.7	46.4	43.8

ReportId



10/04/2025 22:00:02	10/04/2025 22:15:02	00:15:00	53.3	61.6	58.9	56.7	55.6	52.7	48.6	46.4	43.3
10/04/2025 22:15:01	10/04/2025 22:30:01	00:15:00	53.8	59.0	57.4	56.5	56.0	53.8	47.7	44.8	41.3
10/04/2025 22:30:01	10/04/2025 22:45:01	00:15:00	52.5	59.4	57.3	55.8	55.0	51.7	48.1	46.9	43.3
10/04/2025 22:45:01	10/04/2025 23:00:01	00:15:00	51.1	57.9	56.0	54.5	53.7	50.6	46.3	45.0	42.1
10/04/2025 23:00:02	10/04/2025 23:15:02	00:15:00	50.7	59.3	55.2	54.0	53.2	50.2	45.4	42.6	40.2
10/04/2025 23:15:01	10/04/2025 23:30:01	00:15:00	50.8	58.4	55.6	54.3	53.5	50.0	45.7	44.3	41.6
10/04/2025 23:30:01	10/04/2025 23:45:01	00:15:00	50.4	59.6	56.4	54.1	53.0	49.4	45.4	44.1	42.4
10/04/2025 23:45:01	11/04/2025 00:00:01	00:15:00	49.8	57.4	55.0	53.8	53.0	48.7	41.4	37.4	34.1
11/04/2025 00:00:01	11/04/2025 00:15:01	00:15:00	50.6	58.7	55.6	54.1	53.2	49.8	45.2	42.9	38.8
11/04/2025 00:15:01	11/04/2025 00:30:01	00:15:00	49.6	58.8	55.3	53.5	52.6	48.8	37.9	36.0	32.4
11/04/2025 00:30:01	11/04/2025 00:45:01	00:15:00	50.4	58.2	56.0	54.6	53.6	49.4	39.8	33.2	30.8
11/04/2025 00:45:02	11/04/2025 01:00:02	00:15:00	48.9	60.0	55.7	53.3	52.1	47.7	40.8	38.6	35.6
11/04/2025 01:00:01	11/04/2025 01:15:01	00:15:00	44.9	53.1	50.9	49.6	48.6	43.2	35.6	33.2	29.8
11/04/2025 01:15:01	11/04/2025 01:30:01	00:15:00	46.6	56.9	52.1	50.9	50.2	45.1	35.9	33.3	31.8
11/04/2025 01:30:01	11/04/2025 01:45:01	00:15:00	43.8	58.6	52.2	49.9	48.2	39.3	28.0	27.1	25.5
11/04/2025 01:45:02	11/04/2025 02:00:02	00:15:00	44.3	52.4	50.4	48.9	47.9	42.6	36.1	33.4	31.1
11/04/2025 02:00:01	11/04/2025 02:15:01	00:15:00	45.9	55.1	52.9	50.7	49.0	44.5	38.7	37.3	35.3
11/04/2025 02:15:01	11/04/2025 02:30:01	00:15:00	48.9	57.7	55.9	54.8	53.1	46.4	37.7	34.8	32.5
11/04/2025 02:30:01	11/04/2025 02:45:01	00:15:00	48.7	57.8	55.9	54.3	53.0	46.3	37.3	35.9	34.7
11/04/2025 02:45:02	11/04/2025 03:00:02	00:15:00	50.3	58.7	56.1	54.9	53.9	48.5	38.2	36.4	34.2
11/04/2025 03:00:01	11/04/2025 03:15:01	00:15:00	51.5	58.3	56.6	55.1	54.4	50.7	43.1	40.6	37.3
11/04/2025 03:15:01	11/04/2025 03:30:01	00:15:00	52.5	61.7	58.7	56.7	55.6	51.1	46.2	44.1	42.1
11/04/2025 03:30:01	11/04/2025 03:45:01	00:15:00	48.6	57.4	54.7	53.3	52.4	47.2	37.4	33.6	30.1
11/04/2025 03:45:02	11/04/2025 04:00:02	00:15:00	49.3	58.4	55.5	53.6	52.5	48.1	41.0	39.5	37.7
11/04/2025 04:00:01	11/04/2025 04:15:01	00:15:00	48.9	58.0	56.0	54.1	52.8	46.9	37.5	36.4	34.6
11/04/2025 04:15:01	11/04/2025 04:30:01	00:15:00	49.7	58.7	56.7	54.5	52.9	48.1	39.4	37.1	33.5

ReportId



11/04/2025 04:30:02	11/04/2025 04:45:02	00:15:00	51.8	60.3	56.9	55.2	54.4	51.1	45.5	42.6	38.7
11/04/2025 04:45:01	11/04/2025 05:00:01	00:15:00	50.0	73.1	55.6	53.9	52.9	48.6	43.1	41.0	39.0
11/04/2025 05:00:01	11/04/2025 05:15:01	00:15:00	52.9	62.4	58.7	57.0	56.1	51.8	44.7	42.6	38.1
11/04/2025 05:15:02	11/04/2025 05:30:02	00:15:00	53.3	63.6	59.3	57.1	56.1	52.3	48.0	46.9	45.1
11/04/2025 05:30:01	11/04/2025 05:45:01	00:15:00	54.7	66.0	60.7	58.4	57.3	53.7	50.3	49.2	47.2
11/04/2025 05:45:01	11/04/2025 06:00:01	00:15:00	55.6	65.2	61.0	59.1	58.0	54.7	51.8	51.1	49.9
11/04/2025 06:00:01	11/04/2025 06:15:01	00:15:00	56.7	63.6	61.2	59.7	58.9	56.1	53.0	52.2	50.8
11/04/2025 06:15:02	11/04/2025 06:30:02	00:15:00	58.2	65.3	62.4	60.9	60.3	57.9	54.6	53.6	51.7
11/04/2025 06:30:01	11/04/2025 06:45:01	00:15:00	57.6	63.6	61.0	59.9	59.4	57.3	55.0	54.5	53.5
11/04/2025 06:45:01	11/04/2025 07:00:01	00:15:00	59.4	72.3	64.9	62.3	61.1	58.7	55.6	55.0	54.2
11/04/2025 07:00:01	11/04/2025 07:15:01	00:15:00	58.7	64.9	61.9	60.9	60.3	58.4	56.5	56.0	55.0
11/04/2025 07:15:01	11/04/2025 07:30:01	00:15:00	58.9	64.7	63.1	61.3	60.5	58.5	56.5	55.9	55.0
11/04/2025 07:30:01	11/04/2025 07:45:01	00:15:00	59.1	67.7	63.2	61.1	60.6	58.8	56.5	55.9	54.6
11/04/2025 07:45:01	11/04/2025 08:00:01	00:15:00	58.5	62.9	61.5	60.5	60.1	58.2	56.6	56.2	55.3
11/04/2025 08:00:01	11/04/2025 08:15:01	00:15:00	57.1	62.8	59.8	58.9	58.5	56.8	55.2	54.8	53.8
11/04/2025 08:15:01	11/04/2025 08:30:01	00:15:00	55.0	61.2	57.3	56.6	56.3	54.9	53.0	52.4	50.9
11/04/2025 08:30:01	11/04/2025 08:45:01	00:15:00	54.0	58.1	56.8	55.9	55.5	53.7	51.7	51.2	50.4
11/04/2025 08:45:02	11/04/2025 09:00:02	00:15:00	52.5	58.1	56.1	55.1	54.3	52.1	50.0	49.5	48.5
11/04/2025 09:00:01	11/04/2025 09:15:01	00:15:00	51.6	60.5	54.8	53.9	53.2	51.3	48.8	48.0	46.7
11/04/2025 09:15:02	11/04/2025 09:30:02	00:15:00	49.5	55.6	53.1	51.8	51.1	49.1	47.1	46.5	45.5
11/04/2025 09:30:01	11/04/2025 09:45:01	00:15:00	49.2	57.2	52.6	51.6	51.1	48.7	46.9	46.4	45.4
11/04/2025 09:45:01	11/04/2025 10:00:01	00:15:00	49.6	57.8	53.7	52.3	51.7	49.2	46.1	45.1	43.7
11/04/2025 10:00:01	11/04/2025 10:15:01	00:15:00	49.6	57.6	53.7	52.2	51.6	49.4	46.0	44.7	42.8
11/04/2025 10:15:01	11/04/2025 10:30:01	00:15:00	49.8	56.4	54.1	52.6	51.9	49.4	46.2	45.0	42.2
11/04/2025 10:30:01	11/04/2025 10:45:01	00:15:00	48.4	54.3	52.4	51.1	50.5	48.1	44.5	43.1	40.5
11/04/2025 10:45:01	11/04/2025 11:00:01	00:15:00	48.9	57.9	53.5	51.9	51.1	48.4	45.3	44.2	42.2

ReportId



11/04/2025 11:00:02	11/04/2025 11:15:02	00:15:00	48.7	61.6	56.0	52.0	51.1	47.6	43.7	42.5	39.8
11/04/2025 11:15:01	11/04/2025 11:30:01	00:15:00	47.4	55.2	51.9	50.4	49.6	46.8	44.0	43.2	41.2
11/04/2025 11:30:01	11/04/2025 11:45:01	00:15:00	49.4	57.9	54.2	52.9	52.0	48.5	45.3	44.5	43.3
11/04/2025 11:45:01	11/04/2025 12:00:01	00:15:00	50.5	56.1	54.4	53.2	52.5	50.0	47.5	46.7	45.7
11/04/2025 12:00:02	11/04/2025 12:15:02	00:15:00	49.9	58.6	54.5	53.0	52.1	49.2	46.3	45.2	43.9
11/04/2025 12:15:01	11/04/2025 12:30:01	00:15:00	50.3	56.2	53.8	52.7	52.1	49.8	47.8	47.3	46.2
11/04/2025 12:30:02	11/04/2025 12:45:02	00:15:00	50.5	57.3	54.3	53.1	52.5	50.0	47.8	47.0	45.7
11/04/2025 12:45:01	11/04/2025 13:00:01	00:15:00	50.7	57.9	55.1	53.9	53.2	49.9	46.6	45.8	43.8
11/04/2025 13:00:01	11/04/2025 13:15:01	00:15:00	51.8	59.4	55.8	54.4	53.7	51.5	48.7	48.1	46.7
11/04/2025 13:15:01	11/04/2025 13:30:01	00:15:00	52.0	58.1	55.9	54.6	53.9	51.8	48.8	48.2	47.5
11/04/2025 13:30:02	11/04/2025 13:45:02	00:15:00	52.5	60.3	56.9	55.1	54.4	51.9	49.6	48.9	46.7
11/04/2025 13:45:01	11/04/2025 14:00:01	00:15:00	53.3	66.2	59.6	56.1	55.1	52.5	49.7	49.0	47.7
11/04/2025 14:00:01	11/04/2025 14:15:01	00:15:00	51.8	57.7	55.9	54.5	53.8	51.4	48.7	48.1	46.8
11/04/2025 14:15:01	11/04/2025 14:30:01	00:15:00	52.6	60.3	57.8	55.8	54.6	51.8	49.7	49.0	47.9
11/04/2025 14:30:02	11/04/2025 14:45:02	00:15:00	53.1	59.3	56.9	56.0	55.3	52.6	49.9	48.8	46.8
11/04/2025 14:45:01	11/04/2025 15:00:01	00:15:00	53.1	59.7	56.5	55.5	54.9	52.9	50.1	49.2	47.4
11/04/2025 15:00:01	11/04/2025 15:15:01	00:15:00	53.2	59.6	56.8	55.8	55.2	52.9	49.7	48.4	46.8
11/04/2025 15:15:01	11/04/2025 15:30:01	00:15:00	53.6	68.6	58.0	56.1	55.4	53.0	50.8	50.2	48.7
11/04/2025 15:30:02	11/04/2025 15:45:02	00:15:00	52.1	61.7	56.7	55.4	54.6	51.5	47.6	46.8	45.7
11/04/2025 15:45:01	11/04/2025 16:00:01	00:15:00	53.0	62.0	57.2	55.9	55.2	52.5	49.3	47.7	44.6
11/04/2025 16:00:01	11/04/2025 16:15:01	00:15:00	53.9	64.9	57.7	56.3	55.7	53.5	50.8	49.9	48.1
11/04/2025 16:15:02	11/04/2025 16:27:58	00:12:56	54.2	80.8	61.0	57.8	56.0	52.2	49.3	48.2	46.1

ReportId



NMP3

Start: 2025-04-07 14:04:12

End: 2025-04-09 14:25:29

Meter located in cereal crop field

RECEIVED: 08/07/2025

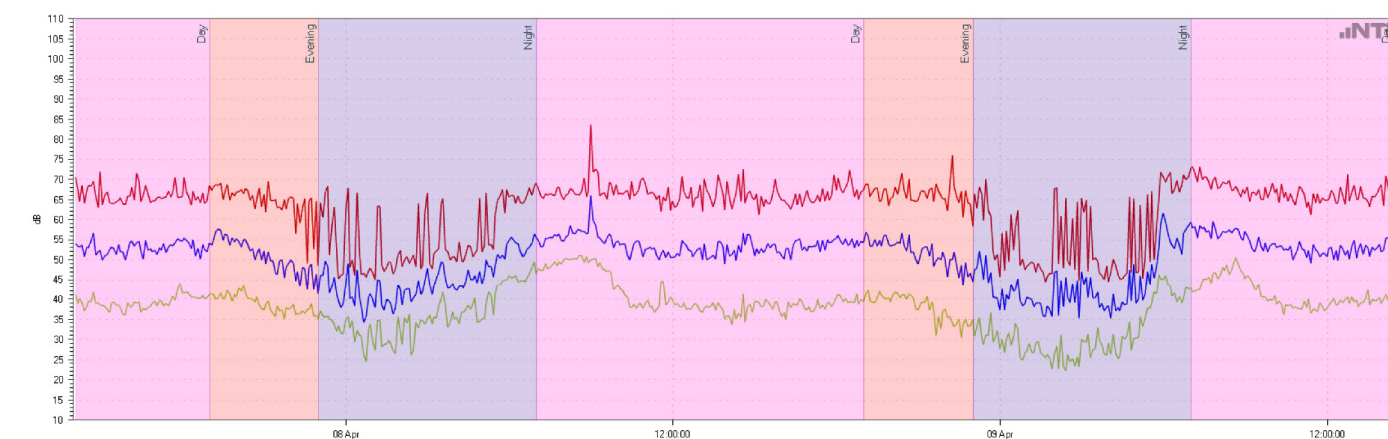
Configuration

Device Info: XL2, SNo. A2A-08898-E0, FW4.71 Type Approved

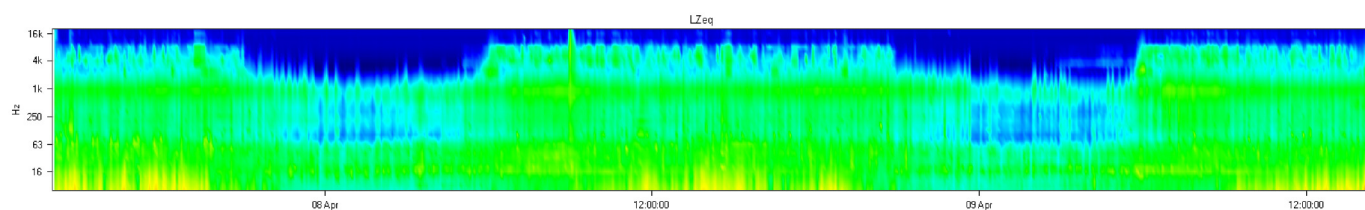
Mic Type: NTi Audio M2230, SNo. 5062, User calibrated 2025-04-07 13:29, WP30(h)

Mic Sensitivity: 40.9 mV/Pa

Range: 0 - 100 dB



— LAFmax_dt — LAFmin_dt — LAeq_dt



Results

Type	Start	Duration	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAeq	
						10.0% [dB]	90.0% [dB]
Recorded	2025-04-07 14:04:12	2 00:21:17	83.4	22.1	52.7		
Project Result		2 00:21:17	83.4	22.1	52.7	57.0	37.9

Markers

Type	Start	Duration	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAeq	
						10.0% [dB]	90.0% [dB]
Evening (2)		08:00:00	75.9	30.3	52.4	57.1	40.0
Day (3)		1 00:20:29	83.4	33.4	54.2	58.2	42.0
Night (2)		16:00:00	72.7	22.1	49.0	50.5	33.9
Unmarked		00:00:48	70.5	41.0	53.8	58.6	43.9

Audit Intervals

Type	Start	Duration	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAeq	
						10.0% [dB]	90.0% [dB]
15'	2025-04-07 14:00:00	00:10:48	70.5	38.7	53.2	57.3	43.5
15'	2025-04-07 14:15:00	00:15:00	68.4	37.0	52.5	57.0	40.7
15'	2025-04-07 14:30:00	00:15:00	69.4	39.1	54.9	58.9	44.6
15'	2025-04-07 14:45:00	00:15:00	71.9	38.4	51.7	55.8	40.9
15'	2025-04-07 15:00:00	00:15:00	66.8	37.3	50.7	54.9	40.2
15'	2025-04-07 15:15:00	00:15:00	64.1	36.6	52.7	57.4	41.8
15'	2025-04-07 15:30:00	00:15:00	65.3	37.7	52.4	57.0	40.9
15'	2025-04-07 15:45:00	00:15:00	65.8	36.0	51.3	56.8	39.8
15'	2025-04-07 16:00:00	00:15:00	67.9	37.9	54.0	58.1	42.4
15'	2025-04-07 16:15:00	00:15:00	71.4	36.6	53.7	57.6	41.3
15'	2025-04-07 16:30:00	00:15:00	68.4	37.1	52.7	57.4	40.9
15'	2025-04-07 16:45:00	00:15:00	64.5	38.2	52.3	57.1	41.9
15'	2025-04-07 17:00:00	00:15:00	65.6	38.2	52.2	56.6	41.8
15'	2025-04-07 17:15:00	00:15:00	67.0	38.2	53.0	56.8	42.1
15'	2025-04-07 17:30:00	00:15:00	70.4	39.5	53.7	58.6	43.0
15'	2025-04-07 17:45:00	00:15:00	65.7	41.5	54.7	59.0	45.7
15'	2025-04-07 18:00:00	00:15:00	70.5	41.3	54.7	58.8	44.5
15'	2025-04-07 18:15:00	00:15:00	66.9	40.3	53.1	57.8	43.5
15'	2025-04-07 18:30:00	00:15:00	66.5	40.0	52.3	57.1	43.3
15'	2025-04-07 18:45:00	00:15:00	68.3	39.9	52.9	57.6	43.2
15'	2025-04-07 19:00:00	00:15:00	68.6	39.7	55.3	60.3	44.3
15'	2025-04-07 19:15:00	00:15:00	69.0	39.7	56.6	60.8	44.5
15'	2025-04-07 19:30:00	00:15:00	68.5	40.2	55.4	59.9	45.0

15'	2025-04-07 19:45:00	00:15:00	66.8	39.4	54.9	59.2	44.0
15'	2025-04-07 20:00:00	00:15:00	67.3	41.8	54.2	58.9	45.4
15'	2025-04-07 20:15:00	00:15:00	67.6	40.1	53.6	58.2	44.1
15'	2025-04-07 20:30:00	00:15:00	65.9	39.2	51.4	55.1	42.4
15'	2025-04-07 20:45:00	00:15:00	67.8	37.2	51.7	55.6	41.1
15'	2025-04-07 21:00:00	00:15:00	69.3	37.2	50.3	54.0	41.2
15'	2025-04-07 21:15:00	00:15:00	64.9	35.5	47.7	47.9	39.0
15'	2025-04-07 21:30:00	00:15:00	64.9	35.0	48.7	52.6	39.2
15'	2025-04-07 21:45:00	00:15:00	65.6	37.4	49.0	51.4	40.7
15'	2025-04-07 22:00:00	00:15:00	65.1	35.9	47.1	48.4	40.3
15'	2025-04-07 22:15:00	00:15:00	65.2	36.1	46.7	46.5	39.7
15'	2025-04-07 22:30:00	00:15:00	65.3	37.4	47.2	48.0	40.4
15'	2025-04-07 22:45:00	00:15:00	64.5	34.8	43.8	44.4	37.8
15'	2025-04-07 23:00:00	00:15:00	66.8	35.3	47.5	47.1	39.6
15'	2025-04-07 23:15:00	00:15:00	68.2	34.6	45.1	44.2	37.6
15'	2025-04-07 23:30:00	00:15:00	63.0	31.8	42.8	43.4	36.4
15'	2025-04-07 23:45:00	00:15:00	61.8	31.3	40.9	42.4	34.6
15'	2025-04-08 00:00:00	00:15:00	67.7	32.6	45.2	43.2	37.3
15'	2025-04-08 00:15:00	00:15:00	66.6	29.1	43.7	43.0	33.7
15'	2025-04-08 00:30:00	00:15:00	46.6	24.2	36.2	39.6	28.6
15'	2025-04-08 00:45:00	00:15:00	47.8	29.4	40.5	43.3	36.0
15'	2025-04-08 01:00:00	00:15:00	63.3	27.1	43.4	43.7	34.6
15'	2025-04-08 01:15:00	00:15:00	48.6	28.0	38.6	42.0	32.2
15'	2025-04-08 01:30:00	00:15:00	49.3	27.1	38.3	41.6	31.5
15'	2025-04-08 01:45:00	00:15:00	52.3	26.4	41.8	45.2	33.1
15'	2025-04-08 02:00:00	00:15:00	50.7	28.6	41.3	44.5	34.8
15'	2025-04-08 02:15:00	00:15:00	51.1	26.0	40.8	44.0	31.2
15'	2025-04-08 02:30:00	00:15:00	63.8	32.7	42.7	43.7	37.0
15'	2025-04-08 02:45:00	00:15:00	66.5	33.6	45.4	45.4	38.0
15'	2025-04-08 03:00:00	00:15:00	51.5	33.7	42.7	45.5	37.7
15'	2025-04-08 03:15:00	00:15:00	63.9	35.2	47.5	50.1	41.0
15'	2025-04-08 03:30:00	00:15:00	65.1	32.9	46.6	49.0	39.7
15'	2025-04-08 03:45:00	00:15:00	50.7	34.0	43.2	45.8	38.8
15'	2025-04-08 04:00:00	00:15:00	54.3	33.6	42.8	45.4	37.8
15'	2025-04-08 04:15:00	00:15:00	53.5	36.6	45.2	48.5	40.4
15'	2025-04-08 04:30:00	00:15:00	53.0	37.4	45.3	47.6	41.6
15'	2025-04-08 04:45:00	00:15:00	65.3	34.1	45.1	47.0	38.6
15'	2025-04-08 05:00:00	00:15:00	66.6	35.1	48.3	50.1	42.2
15'	2025-04-08 05:15:00	00:15:00	61.0	36.0	47.6	50.0	42.2
15'	2025-04-08 05:30:00	00:15:00	67.3	43.4	50.9	51.2	46.4
15'	2025-04-08 05:45:00	00:15:00	67.3	44.7	53.3	57.0	47.8
15'	2025-04-08 06:00:00	00:15:00	66.0	45.4	54.8	58.3	49.0

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15'	2025-04-08 06:15:00	00:15:00	65.8	44.2	52.3	55.8	47.3
15'	2025-04-08 06:30:00	00:15:00	67.8	44.3	52.4	54.9	47.5
15'	2025-04-08 06:45:00	00:15:00	69.0	46.3	55.4	58.6	49.8
15'	2025-04-08 07:00:00	00:15:00	67.5	47.1	53.7	56.2	49.4
15'	2025-04-08 07:15:00	00:15:00	66.4	47.6	55.3	59.7	50.0
15'	2025-04-08 07:30:00	00:15:00	67.8	48.4	55.7	59.8	50.6
15'	2025-04-08 07:45:00	00:15:00	68.0	48.7	55.3	58.7	51.4
15'	2025-04-08 08:00:00	00:15:00	67.5	49.8	56.8	60.3	51.9
15'	2025-04-08 08:15:00	00:15:00	67.2	50.1	56.7	60.4	52.0
15'	2025-04-08 08:30:00	00:15:00	70.2	49.2	57.1	60.8	52.4
15'	2025-04-08 08:45:00	00:15:00	83.4	49.2	62.0	61.8	52.3
15'	2025-04-08 09:00:00	00:15:00	72.5	48.2	58.2	62.3	51.3
15'	2025-04-08 09:15:00	00:15:00	66.6	47.4	54.6	58.1	49.9
15'	2025-04-08 09:30:00	00:15:00	69.1	46.5	55.8	59.7	49.3
15'	2025-04-08 09:45:00	00:15:00	68.6	42.3	54.0	58.3	45.9
15'	2025-04-08 10:00:00	00:15:00	66.7	40.8	53.6	57.6	44.5
15'	2025-04-08 10:15:00	00:15:00	69.4	37.8	50.9	55.6	41.4
15'	2025-04-08 10:30:00	00:15:00	67.3	37.6	54.3	58.8	42.0
15'	2025-04-08 10:45:00	00:15:00	70.3	37.6	52.1	56.4	41.1
15'	2025-04-08 11:00:00	00:15:00	66.8	37.7	52.8	57.7	41.8
15'	2025-04-08 11:15:00	00:15:00	66.1	36.5	51.3	55.5	41.2
15'	2025-04-08 11:30:00	00:15:00	65.6	38.3	51.4	55.3	42.9
15'	2025-04-08 11:45:00	00:15:00	68.0	39.1	51.0	54.7	43.0
15'	2025-04-08 12:00:00	00:15:00	65.2	38.0	51.0	55.9	41.5
15'	2025-04-08 12:15:00	00:15:00	70.6	37.4	54.1	58.6	41.5
15'	2025-04-08 12:30:00	00:15:00	68.0	37.4	51.8	56.8	40.7
15'	2025-04-08 12:45:00	00:15:00	68.6	37.0	52.3	56.8	40.7
15'	2025-04-08 13:00:00	00:15:00	70.0	36.6	51.6	55.7	40.3
15'	2025-04-08 13:15:00	00:15:00	66.1	37.8	50.6	54.9	40.7
15'	2025-04-08 13:30:00	00:15:00	71.1	37.1	53.3	57.5	41.0
15'	2025-04-08 13:45:00	00:15:00	69.4	35.0	52.4	56.6	40.1
15'	2025-04-08 14:00:00	00:15:00	65.3	33.4	51.5	56.5	38.5
15'	2025-04-08 14:15:00	00:15:00	71.2	34.8	51.8	56.2	38.7
15'	2025-04-08 14:30:00	00:15:00	72.5	34.0	55.6	59.4	42.8
15'	2025-04-08 14:45:00	00:15:00	67.0	36.5	53.9	58.5	41.6
15'	2025-04-08 15:00:00	00:15:00	66.4	37.9	52.3	56.6	42.3
15'	2025-04-08 15:15:00	00:15:00	65.0	38.2	52.8	57.5	41.6
15'	2025-04-08 15:30:00	00:15:00	70.1	37.4	53.4	58.0	41.6
15'	2025-04-08 15:45:00	00:15:00	67.3	35.5	51.4	56.1	40.1
15'	2025-04-08 16:00:00	00:15:00	64.7	34.7	51.9	56.6	39.3
15'	2025-04-08 16:15:00	00:15:00	66.3	37.8	53.1	57.5	41.1
15'	2025-04-08 16:30:00	00:15:00	66.4	38.3	54.1	58.7	42.8

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15'	2025-04-08 16:45:00	00:15:00	67.1	37.1	52.8	57.2	40.6
15'	2025-04-08 17:00:00	00:15:00	64.8	36.8	53.2	57.9	40.7
15'	2025-04-08 17:15:00	00:15:00	67.5	37.6	53.9	58.4	41.3
15'	2025-04-08 17:30:00	00:15:00	66.9	37.4	53.9	58.8	41.5
15'	2025-04-08 17:45:00	00:15:00	71.0	38.0	54.9	59.4	43.1
15'	2025-04-08 18:00:00	00:15:00	70.2	39.2	54.8	59.3	43.4
15'	2025-04-08 18:15:00	00:15:00	72.2	38.9	54.2	58.5	43.1
15'	2025-04-08 18:30:00	00:15:00	68.9	38.9	54.3	59.3	42.9
15'	2025-04-08 18:45:00	00:15:00	67.2	38.6	54.0	58.5	42.3
15'	2025-04-08 19:00:00	00:15:00	68.8	39.4	55.5	60.1	44.0
15'	2025-04-08 19:15:00	00:15:00	67.8	39.0	53.8	58.2	43.3
15'	2025-04-08 19:30:00	00:15:00	67.3	40.2	54.7	59.3	43.8
15'	2025-04-08 19:45:00	00:15:00	67.5	39.2	54.4	59.2	43.4
15'	2025-04-08 20:00:00	00:15:00	68.0	40.8	53.8	58.2	44.7
15'	2025-04-08 20:15:00	00:15:00	71.5	40.2	54.8	59.0	44.2
15'	2025-04-08 20:30:00	00:15:00	70.0	39.7	53.7	57.2	43.5
15'	2025-04-08 20:45:00	00:15:00	64.6	37.1	50.4	54.7	40.6
15'	2025-04-08 21:00:00	00:15:00	67.2	38.5	52.3	56.9	42.2
15'	2025-04-08 21:15:00	00:15:00	67.7	37.2	52.7	57.1	41.9
15'	2025-04-08 21:30:00	00:15:00	68.7	30.8	49.5	50.7	38.8
15'	2025-04-08 21:45:00	00:15:00	65.8	32.4	50.6	54.0	39.9
15'	2025-04-08 22:00:00	00:15:00	75.9	33.9	48.9	48.8	38.0
15'	2025-04-08 22:15:00	00:15:00	68.1	33.0	49.4	49.7	37.0
15'	2025-04-08 22:30:00	00:15:00	67.2	30.3	47.7	47.9	36.6
15'	2025-04-08 22:45:00	00:15:00	64.0	33.1	45.6	47.1	36.9
15'	2025-04-08 23:00:00	00:15:00	67.9	30.6	49.6	52.6	35.6
15'	2025-04-08 23:15:00	00:15:00	70.0	28.5	48.8	48.9	34.9
15'	2025-04-08 23:30:00	00:15:00	62.0	29.2	44.4	46.9	34.4
15'	2025-04-08 23:45:00	00:15:00	51.2	27.5	39.4	42.6	33.0
15'	2025-04-09 00:00:00	00:15:00	57.1	26.5	40.7	43.2	32.8
15'	2025-04-09 00:15:00	00:15:00	61.3	28.3	42.0	44.3	33.6
15'	2025-04-09 00:30:00	00:15:00	62.2	25.4	42.9	44.6	35.4
15'	2025-04-09 00:45:00	00:15:00	50.1	24.7	39.2	43.3	29.0
15'	2025-04-09 01:00:00	00:15:00	49.4	26.6	39.4	42.8	32.0
15'	2025-04-09 01:15:00	00:15:00	48.9	26.5	38.9	42.2	32.9
15'	2025-04-09 01:30:00	00:15:00	46.7	25.4	36.7	39.8	29.0
15'	2025-04-09 01:45:00	00:15:00	67.6	22.4	42.8	42.8	27.7
15'	2025-04-09 02:00:00	00:15:00	67.7	22.4	44.5	44.1	25.1
15'	2025-04-09 02:15:00	00:15:00	65.3	22.1	42.4	43.1	25.1
15'	2025-04-09 02:30:00	00:15:00	60.3	23.2	41.3	44.0	26.3
15'	2025-04-09 02:45:00	00:15:00	65.4	23.1	44.4	42.0	29.7
15'	2025-04-09 03:00:00	00:15:00	64.6	29.1	43.6	43.2	33.9

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15'	2025-04-09 03:15:00	00:15:00	63.2	25.4	42.8	44.6	31.2
15'	2025-04-09 03:30:00	00:15:00	49.3	28.5	39.7	42.9	34.1
15'	2025-04-09 03:45:00	00:15:00	48.4	25.9	37.7	40.7	30.1
15'	2025-04-09 04:00:00	00:15:00	49.9	26.2	38.5	42.4	30.7
15'	2025-04-09 04:15:00	00:15:00	46.2	25.1	38.0	41.2	32.0
15'	2025-04-09 04:30:00	00:15:00	65.5	29.9	43.7	42.2	35.7
15'	2025-04-09 04:45:00	00:15:00	65.1	27.2	44.8	43.8	34.2
15'	2025-04-09 05:00:00	00:15:00	63.4	30.4	42.9	43.3	35.3
15'	2025-04-09 05:15:00	00:15:00	66.2	35.1	44.4	45.1	39.6
15'	2025-04-09 05:30:00	00:15:00	66.9	38.7	47.6	48.9	41.9
15'	2025-04-09 05:45:00	00:15:00	71.6	45.0	58.8	63.0	49.4
15'	2025-04-09 06:00:00	00:15:00	71.7	43.1	57.2	62.1	46.9
15'	2025-04-09 06:15:00	00:15:00	69.6	39.2	54.0	56.9	44.3
15'	2025-04-09 06:30:00	00:15:00	71.1	38.9	54.3	54.8	43.1
15'	2025-04-09 06:45:00	00:15:00	72.7	42.4	58.4	63.7	46.2
15'	2025-04-09 07:00:00	00:15:00	73.1	41.6	57.3	61.5	45.5
15'	2025-04-09 07:15:00	00:15:00	73.0	42.3	58.0	62.5	47.4
15'	2025-04-09 07:30:00	00:15:00	70.5	43.9	56.5	60.8	47.6
15'	2025-04-09 07:45:00	00:15:00	70.4	45.1	57.7	62.1	48.7
15'	2025-04-09 08:00:00	00:15:00	69.1	45.9	56.5	60.8	49.1
15'	2025-04-09 08:15:00	00:15:00	69.6	46.1	56.9	61.0	50.0
15'	2025-04-09 08:30:00	00:15:00	68.2	48.7	57.4	61.2	51.6
15'	2025-04-09 08:45:00	00:15:00	67.3	45.2	55.8	60.1	50.0
15'	2025-04-09 09:00:00	00:15:00	67.9	44.3	54.5	59.1	47.5
15'	2025-04-09 09:15:00	00:15:00	67.4	42.2	53.7	58.3	44.8
15'	2025-04-09 09:30:00	00:15:00	68.0	40.4	53.2	57.6	43.1
15'	2025-04-09 09:45:00	00:15:00	68.9	39.4	53.1	57.7	42.9
15'	2025-04-09 10:00:00	00:15:00	67.6	38.5	53.4	58.1	43.1
15'	2025-04-09 10:15:00	00:15:00	68.8	35.9	52.7	57.6	41.2
15'	2025-04-09 10:30:00	00:15:00	66.3	37.5	52.0	56.5	40.8
15'	2025-04-09 10:45:00	00:15:00	68.2	37.5	52.8	57.5	40.8
15'	2025-04-09 11:00:00	00:15:00	67.3	37.4	51.9	56.7	40.5
15'	2025-04-09 11:15:00	00:15:00	66.3	36.3	52.1	56.6	39.7
15'	2025-04-09 11:30:00	00:15:00	66.3	36.7	51.7	56.0	41.1
15'	2025-04-09 11:45:00	00:15:00	65.4	36.9	51.2	55.7	40.7
15'	2025-04-09 12:00:00	00:15:00	67.1	38.4	52.1	56.1	42.3
15'	2025-04-09 12:15:00	00:15:00	67.9	38.4	52.1	56.7	41.6
15'	2025-04-09 12:30:00	00:15:00	71.2	38.9	52.0	56.9	42.0
15'	2025-04-09 12:45:00	00:15:00	68.4	38.7	53.0	57.7	42.3
15'	2025-04-09 13:00:00	00:15:00	68.2	38.0	52.4	56.9	41.9
15'	2025-04-09 13:15:00	00:15:00	65.3	38.9	52.7	57.3	43.0
15'	2025-04-09 13:30:00	00:15:00	65.7	38.4	52.1	56.8	41.4

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15'	2025-04-09 13:45:00	00:15:00	68.6	38.8	52.8	56.8	42.5
15'	2025-04-09 14:00:00	00:15:00	70.9	39.4	54.5	58.7	42.9
15'	2025-04-09 14:15:00	00:10:29	67.3	39.4	54.7	59.4	43.3

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NMP4

Start: 2025-04-07 13:20:06

End: 2025-04-09 13:44:16

SLM located in a rapeseed oil field.

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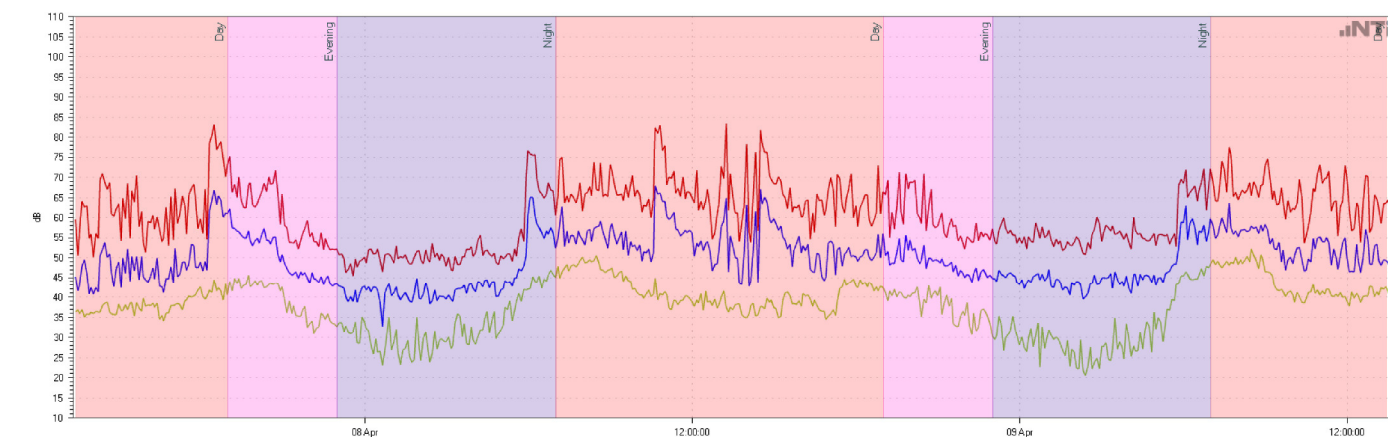
Configuration

Device Info: XL2, SNo. A2A-16311-E0, FW4.21 Type Approved

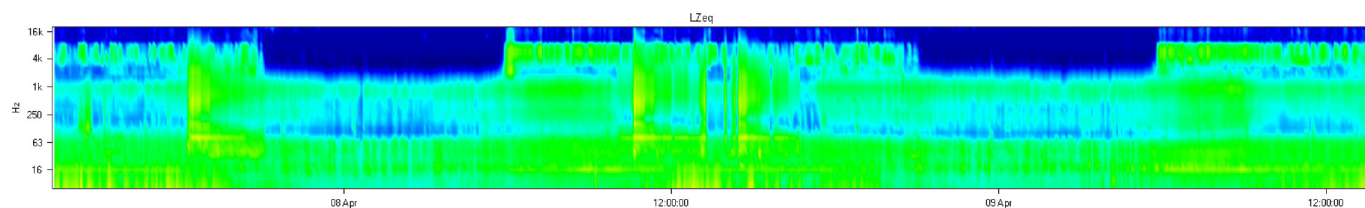
Mic Type: NTi Audio M2230, SNo. 8567, User calibrated 2025-04-07 12:59, WP30(h)

Mic Sensitivity: 38.7 mV/Pa

Range: 0 - 100 dB



— LAFmax_dt — LAFmin_dt — LAeq_dt



Results

Type	Start	Duration	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAeq	
						10.0% [dB]	90.0% [dB]
Recorded	2025-04-07 13:20:06	2 00:24:10	83.3	20.5	54.4		
Project Result		2 00:24:10	83.3	20.5	54.4	56.6	37.9

Markers

Type	Start	Duration	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAeq	
						10.0% [dB]	90.0% [dB]
Day (3)		1 00:00:00	83.3	33.8	56.3	58.3	41.7
Evening (2)		08:00:00	75.1	30.3	51.6	54.5	40.7
Night (2)		16:00:00	76.5	20.5	51.2	51.8	33.0
Unmarked		00:24:10	70.3	36.1	49.7	51.2	41.6

Audit Intervals

Type	Start	Duration	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAeq	
						10.0% [dB]	90.0% [dB]
15'	2025-04-07 13:15:00	00:09:54	59.3	36.1	43.6	45.5	38.8
15'	2025-04-07 13:30:00	00:15:00	63.9	35.0	47.4	52.1	38.9
15'	2025-04-07 13:45:00	00:15:00	62.8	35.5	43.4	45.4	37.6
15'	2025-04-07 14:00:00	00:15:00	55.9	35.7	41.4	43.2	38.1
15'	2025-04-07 14:15:00	00:15:00	70.9	36.1	52.2	56.6	39.9
15'	2025-04-07 14:30:00	00:15:00	68.5	35.7	49.4	52.4	39.6
15'	2025-04-07 14:45:00	00:15:00	63.3	35.5	46.8	50.3	38.8
15'	2025-04-07 15:00:00	00:15:00	64.6	36.5	47.0	50.9	39.6
15'	2025-04-07 15:15:00	00:15:00	68.4	36.7	49.8	52.4	40.8
15'	2025-04-07 15:30:00	00:15:00	70.4	35.1	47.8	50.7	39.6
15'	2025-04-07 15:45:00	00:15:00	61.4	36.4	47.4	50.1	40.9
15'	2025-04-07 16:00:00	00:15:00	60.4	37.7	45.7	47.2	40.6
15'	2025-04-07 16:15:00	00:15:00	60.0	34.2	46.8	51.7	38.9
15'	2025-04-07 16:30:00	00:15:00	62.5	33.8	43.0	46.2	37.1
15'	2025-04-07 16:45:00	00:15:00	65.1	36.0	45.5	46.3	40.4
15'	2025-04-07 17:00:00	00:15:00	67.2	37.9	48.9	48.1	41.3
15'	2025-04-07 17:15:00	00:15:00	65.4	36.8	48.2	50.4	41.4
15'	2025-04-07 17:30:00	00:15:00	68.2	39.8	51.9	56.2	43.8
15'	2025-04-07 17:45:00	00:15:00	65.0	40.4	48.0	50.4	44.0
15'	2025-04-07 18:00:00	00:15:00	67.0	39.3	47.6	49.3	43.3
15'	2025-04-07 18:15:00	00:15:00	83.1	41.0	64.6	66.6	46.7
15'	2025-04-07 18:30:00	00:15:00	78.8	41.5	64.3	68.2	49.2
15'	2025-04-07 18:45:00	00:15:00	74.4	39.2	60.6	64.7	47.4

15'	2025-04-07 19:00:00	00:15:00	75.1	41.5	59.5	62.5	47.9
15'	2025-04-07 19:15:00	00:15:00	70.0	42.1	56.1	59.7	48.4
15'	2025-04-07 19:30:00	00:15:00	67.9	42.9	55.4	59.0	48.2
15'	2025-04-07 19:45:00	00:15:00	68.6	42.5	53.7	56.9	47.3
15'	2025-04-07 20:00:00	00:15:00	66.2	42.8	54.7	58.0	48.8
15'	2025-04-07 20:15:00	00:15:00	70.0	42.2	55.4	59.3	47.9
15'	2025-04-07 20:30:00	00:15:00	71.7	43.0	54.5	59.5	47.3
15'	2025-04-07 20:45:00	00:15:00	65.8	41.4	50.1	51.7	45.9
15'	2025-04-07 21:00:00	00:15:00	57.9	36.0	47.4	50.3	42.5
15'	2025-04-07 21:15:00	00:15:00	54.2	35.3	45.9	48.6	41.0
15'	2025-04-07 21:30:00	00:15:00	55.7	35.1	45.6	48.4	39.7
15'	2025-04-07 21:45:00	00:15:00	59.2	32.3	44.9	48.4	36.6
15'	2025-04-07 22:00:00	00:15:00	56.1	30.8	45.1	48.8	35.5
15'	2025-04-07 22:15:00	00:15:00	56.2	32.5	44.0	47.0	38.1
15'	2025-04-07 22:30:00	00:15:00	54.7	33.9	44.4	47.4	38.0
15'	2025-04-07 22:45:00	00:15:00	52.1	32.5	43.1	46.6	37.1
15'	2025-04-07 23:00:00	00:15:00	50.8	31.3	42.4	45.2	36.7
15'	2025-04-07 23:15:00	00:15:00	48.4	30.8	39.6	42.2	35.2
15'	2025-04-07 23:30:00	00:15:00	49.6	28.6	39.9	43.0	34.0
15'	2025-04-07 23:45:00	00:15:00	50.1	28.3	42.0	45.0	35.7
15'	2025-04-08 00:00:00	00:15:00	52.0	27.9	41.8	45.1	34.5
15'	2025-04-08 00:15:00	00:15:00	52.0	25.8	42.1	46.1	30.4
15'	2025-04-08 00:30:00	00:15:00	50.6	22.8	38.7	43.2	26.3
15'	2025-04-08 00:45:00	00:15:00	50.9	26.8	42.1	45.3	35.1
15'	2025-04-08 01:00:00	00:15:00	52.8	26.1	41.4	44.7	33.5
15'	2025-04-08 01:15:00	00:15:00	50.7	23.0	40.2	44.2	28.5
15'	2025-04-08 01:30:00	00:15:00	48.9	23.7	39.2	43.2	28.5
15'	2025-04-08 01:45:00	00:15:00	51.6	24.2	42.2	46.6	30.7
15'	2025-04-08 02:00:00	00:15:00	51.8	24.0	41.5	45.5	31.1
15'	2025-04-08 02:15:00	00:15:00	53.5	23.6	39.8	44.2	28.2
15'	2025-04-08 02:30:00	00:15:00	51.1	26.9	40.4	43.8	32.5
15'	2025-04-08 02:45:00	00:15:00	50.9	28.7	39.8	42.7	32.8
15'	2025-04-08 03:00:00	00:15:00	50.0	27.1	39.5	43.2	32.0
15'	2025-04-08 03:15:00	00:15:00	50.2	33.5	41.9	44.5	37.4
15'	2025-04-08 03:30:00	00:15:00	52.1	28.4	42.0	45.1	34.7
15'	2025-04-08 03:45:00	00:15:00	52.6	27.9	42.8	46.5	34.9
15'	2025-04-08 04:00:00	00:15:00	55.6	28.2	43.0	46.6	34.7
15'	2025-04-08 04:15:00	00:15:00	51.9	31.6	43.7	46.9	37.7
15'	2025-04-08 04:30:00	00:15:00	51.0	31.1	43.3	46.3	37.4
15'	2025-04-08 04:45:00	00:15:00	50.5	29.6	40.7	44.1	34.1
15'	2025-04-08 05:00:00	00:15:00	50.9	32.9	43.3	45.8	39.0
15'	2025-04-08 05:15:00	00:15:00	52.0	33.8	43.9	46.3	39.8

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15'	2025-04-08 05:30:00	00:15:00	57.1	38.7	46.2	48.9	42.2
15'	2025-04-08 05:45:00	00:15:00	76.5	41.6	56.1	60.5	45.5
15'	2025-04-08 06:00:00	00:15:00	75.8	42.0	63.8	68.3	50.1
15'	2025-04-08 06:15:00	00:15:00	69.7	42.0	57.3	61.6	48.0
15'	2025-04-08 06:30:00	00:15:00	68.5	43.9	55.7	60.3	47.5
15'	2025-04-08 06:45:00	00:15:00	66.7	45.0	55.6	60.2	49.6
15'	2025-04-08 07:00:00	00:15:00	74.8	44.7	59.8	62.2	49.5
15'	2025-04-08 07:15:00	00:15:00	65.4	46.6	54.5	58.2	50.3
15'	2025-04-08 07:30:00	00:15:00	65.7	47.6	54.8	58.2	50.5
15'	2025-04-08 07:45:00	00:15:00	68.5	48.3	55.4	57.9	51.9
15'	2025-04-08 08:00:00	00:15:00	67.5	48.6	55.8	59.8	51.3
15'	2025-04-08 08:15:00	00:15:00	73.7	48.7	56.4	60.0	51.8
15'	2025-04-08 08:30:00	00:15:00	73.4	46.8	57.9	60.9	50.8
15'	2025-04-08 08:45:00	00:15:00	73.0	46.2	55.2	58.1	49.0
15'	2025-04-08 09:00:00	00:15:00	71.6	45.0	56.3	60.3	48.1
15'	2025-04-08 09:15:00	00:15:00	65.7	43.8	54.7	59.1	48.0
15'	2025-04-08 09:30:00	00:15:00	68.2	43.9	54.3	59.1	46.3
15'	2025-04-08 09:45:00	00:15:00	70.5	41.1	52.5	57.1	44.5
15'	2025-04-08 10:00:00	00:15:00	65.6	39.5	51.5	55.8	44.3
15'	2025-04-08 10:15:00	00:15:00	64.5	39.9	50.8	53.2	45.2
15'	2025-04-08 10:30:00	00:15:00	82.3	39.2	65.2	66.8	45.3
15'	2025-04-08 10:45:00	00:15:00	82.8	40.5	64.7	69.2	45.8
15'	2025-04-08 11:00:00	00:15:00	70.0	36.8	59.9	65.1	45.5
15'	2025-04-08 11:15:00	00:15:00	71.5	38.0	58.9	62.6	47.0
15'	2025-04-08 11:30:00	00:15:00	70.0	39.0	56.1	60.3	44.6
15'	2025-04-08 11:45:00	00:15:00	66.3	38.8	56.3	60.3	45.1
15'	2025-04-08 12:00:00	00:15:00	71.6	37.5	52.4	56.7	42.3
15'	2025-04-08 12:15:00	00:15:00	64.2	36.6	53.2	57.8	44.1
15'	2025-04-08 12:30:00	00:15:00	66.9	37.8	51.7	56.4	43.0
15'	2025-04-08 12:45:00	00:15:00	63.2	37.1	49.7	52.9	42.4
15'	2025-04-08 13:00:00	00:15:00	83.3	37.4	61.6	62.8	41.8
15'	2025-04-08 13:15:00	00:15:00	70.8	36.2	52.8	57.1	39.5
15'	2025-04-08 13:30:00	00:15:00	61.0	37.9	48.5	53.7	40.8
15'	2025-04-08 13:45:00	00:15:00	78.2	34.6	58.5	57.2	39.1
15'	2025-04-08 14:00:00	00:15:00	65.0	35.8	47.7	48.9	39.7
15'	2025-04-08 14:15:00	00:15:00	81.7	35.2	63.3	65.4	39.5
15'	2025-04-08 14:30:00	00:15:00	78.4	36.9	64.0	69.4	42.3
15'	2025-04-08 14:45:00	00:15:00	70.4	37.4	59.3	64.5	42.1
15'	2025-04-08 15:00:00	00:15:00	70.1	34.6	57.7	62.4	39.0
15'	2025-04-08 15:15:00	00:15:00	65.7	39.0	54.0	58.2	44.2
15'	2025-04-08 15:30:00	00:15:00	67.4	38.2	51.5	56.5	41.3
15'	2025-04-08 15:45:00	00:15:00	63.0	37.6	53.6	58.3	42.4

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15'	2025-04-08 16:00:00	00:15:00	64.2	40.2	52.6	56.9	44.4
15'	2025-04-08 16:15:00	00:15:00	61.0	37.6	46.5	49.5	40.9
15'	2025-04-08 16:30:00	00:15:00	65.7	36.3	49.6	54.0	39.2
15'	2025-04-08 16:45:00	00:15:00	66.7	34.3	49.6	54.5	38.3
15'	2025-04-08 17:00:00	00:15:00	69.7	35.4	52.3	56.4	40.8
15'	2025-04-08 17:15:00	00:15:00	70.7	38.8	51.2	51.4	43.5
15'	2025-04-08 17:30:00	00:15:00	67.1	42.9	51.5	54.1	46.7
15'	2025-04-08 17:45:00	00:15:00	70.9	42.6	50.1	51.9	46.5
15'	2025-04-08 18:00:00	00:15:00	63.7	42.2	49.9	52.1	46.3
15'	2025-04-08 18:15:00	00:15:00	65.6	42.5	51.3	54.4	46.4
15'	2025-04-08 18:30:00	00:15:00	61.3	41.5	50.2	52.8	46.1
15'	2025-04-08 18:45:00	00:15:00	72.9	41.4	54.5	58.3	45.9
15'	2025-04-08 19:00:00	00:15:00	69.2	38.9	50.2	51.2	44.4
15'	2025-04-08 19:15:00	00:15:00	62.6	39.9	49.6	52.1	44.7
15'	2025-04-08 19:30:00	00:15:00	71.3	39.9	51.8	52.2	45.0
15'	2025-04-08 19:45:00	00:15:00	70.9	39.5	54.2	58.4	45.6
15'	2025-04-08 20:00:00	00:15:00	69.1	40.9	51.4	53.2	45.3
15'	2025-04-08 20:15:00	00:15:00	70.9	35.0	50.7	51.7	44.1
15'	2025-04-08 20:30:00	00:15:00	67.0	38.3	49.0	50.9	44.4
15'	2025-04-08 20:45:00	00:15:00	58.2	40.2	49.1	51.7	44.7
15'	2025-04-08 21:00:00	00:15:00	61.1	35.5	48.7	51.2	43.6
15'	2025-04-08 21:15:00	00:15:00	59.6	37.5	48.2	51.0	43.3
15'	2025-04-08 21:30:00	00:15:00	57.9	32.5	46.7	50.0	38.0
15'	2025-04-08 21:45:00	00:15:00	55.4	35.1	45.9	48.9	40.6
15'	2025-04-08 22:00:00	00:15:00	55.1	30.7	45.1	48.1	37.2
15'	2025-04-08 22:15:00	00:15:00	58.5	31.5	46.0	49.1	38.7
15'	2025-04-08 22:30:00	00:15:00	56.3	36.4	46.5	49.5	40.3
15'	2025-04-08 22:45:00	00:15:00	57.2	30.3	45.0	48.7	37.3
15'	2025-04-08 23:00:00	00:15:00	56.8	29.4	45.3	49.2	35.8
15'	2025-04-08 23:15:00	00:15:00	59.7	26.5	45.3	49.2	33.9
15'	2025-04-08 23:30:00	00:15:00	56.7	30.7	45.8	49.1	37.3
15'	2025-04-08 23:45:00	00:15:00	55.6	28.0	44.0	47.7	35.6
15'	2025-04-09 00:00:00	00:15:00	55.1	26.3	43.4	47.8	31.2
15'	2025-04-09 00:15:00	00:15:00	55.1	27.5	44.4	48.4	33.8
15'	2025-04-09 00:30:00	00:15:00	58.6	22.5	45.3	49.3	32.3
15'	2025-04-09 00:45:00	00:15:00	57.5	27.1	45.0	49.6	33.9
15'	2025-04-09 01:00:00	00:15:00	56.7	29.3	44.6	48.7	34.0
15'	2025-04-09 01:15:00	00:15:00	54.5	28.4	44.1	48.0	32.6
15'	2025-04-09 01:30:00	00:15:00	53.8	25.3	42.0	46.4	30.4
15'	2025-04-09 01:45:00	00:15:00	53.7	22.6	42.5	47.3	26.6
15'	2025-04-09 02:00:00	00:15:00	55.2	22.0	43.4	48.1	25.2
15'	2025-04-09 02:15:00	00:15:00	53.6	20.5	40.1	45.4	22.6

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15'	2025-04-09 02:30:00	00:15:00	57.0	22.1	44.1	48.7	25.8
15'	2025-04-09 02:45:00	00:15:00	60.0	22.0	43.8	48.5	25.6
15'	2025-04-09 03:00:00	00:15:00	57.9	24.4	44.9	49.4	31.8
15'	2025-04-09 03:15:00	00:15:00	57.8	24.1	45.1	49.7	30.9
15'	2025-04-09 03:30:00	00:15:00	56.6	26.9	43.8	48.3	32.7
15'	2025-04-09 03:45:00	00:15:00	56.0	24.5	43.6	47.1	33.3
15'	2025-04-09 04:00:00	00:15:00	60.0	25.1	44.6	48.6	31.1
15'	2025-04-09 04:15:00	00:15:00	56.0	26.5	44.4	48.3	32.8
15'	2025-04-09 04:30:00	00:15:00	54.7	30.4	45.3	49.2	36.5
15'	2025-04-09 04:45:00	00:15:00	55.9	26.1	44.2	47.6	36.0
15'	2025-04-09 05:00:00	00:15:00	55.7	28.7	44.4	48.1	36.8
15'	2025-04-09 05:15:00	00:15:00	55.7	33.6	46.2	49.2	40.8
15'	2025-04-09 05:30:00	00:15:00	56.0	38.9	48.1	50.4	43.7
15'	2025-04-09 05:45:00	00:15:00	69.3	43.2	57.4	62.7	47.8
15'	2025-04-09 06:00:00	00:15:00	71.9	44.5	59.9	64.0	49.6
15'	2025-04-09 06:15:00	00:15:00	67.8	44.2	57.3	61.3	48.3
15'	2025-04-09 06:30:00	00:15:00	72.1	45.4	57.0	60.7	49.2
15'	2025-04-09 06:45:00	00:15:00	72.1	47.3	57.3	61.3	50.9
15'	2025-04-09 07:00:00	00:15:00	68.8	48.2	56.2	59.9	51.7
15'	2025-04-09 07:15:00	00:15:00	73.9	47.3	58.5	61.6	51.7
15'	2025-04-09 07:30:00	00:15:00	77.3	48.0	60.3	62.1	52.3
15'	2025-04-09 07:45:00	00:15:00	66.2	48.2	55.8	59.3	52.1
15'	2025-04-09 08:00:00	00:15:00	66.7	48.4	56.7	60.2	52.3
15'	2025-04-09 08:15:00	00:15:00	68.6	48.7	57.0	60.0	52.8
15'	2025-04-09 08:30:00	00:15:00	68.7	47.2	56.9	59.8	53.0
15'	2025-04-09 08:45:00	00:15:00	72.8	46.3	57.7	61.4	51.1
15'	2025-04-09 09:00:00	00:15:00	74.5	45.4	55.2	58.1	48.4
15'	2025-04-09 09:15:00	00:15:00	66.5	41.5	52.6	57.7	45.4
15'	2025-04-09 09:30:00	00:15:00	67.4	39.9	49.7	51.4	44.0
15'	2025-04-09 09:45:00	00:15:00	64.0	40.5	49.3	53.0	43.6
15'	2025-04-09 10:00:00	00:15:00	69.3	38.5	51.8	55.9	43.6
15'	2025-04-09 10:15:00	00:15:00	64.8	38.4	47.8	49.9	42.8
15'	2025-04-09 10:30:00	00:15:00	67.1	41.1	51.9	54.2	45.1
15'	2025-04-09 10:45:00	00:15:00	73.0	40.4	54.1	58.7	45.3
15'	2025-04-09 11:00:00	00:15:00	69.6	40.7	54.3	58.6	45.1
15'	2025-04-09 11:15:00	00:15:00	71.4	40.0	51.8	56.2	44.5
15'	2025-04-09 11:30:00	00:15:00	64.0	39.9	49.4	51.5	43.9
15'	2025-04-09 11:45:00	00:15:00	72.8	38.9	53.3	57.3	43.6
15'	2025-04-09 12:00:00	00:15:00	62.0	37.6	46.4	48.4	43.2
15'	2025-04-09 12:15:00	00:15:00	63.5	38.6	50.6	55.8	43.6
15'	2025-04-09 12:30:00	00:15:00	70.4	40.0	54.6	57.9	43.5
15'	2025-04-09 12:45:00	00:15:00	65.5	39.9	50.3	51.6	44.5

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15'	2025-04-09 13:00:00	00:15:00	64.4	40.5	50.7	54.7	44.6
15'	2025-04-09 13:15:00	00:15:00	64.3	41.0	49.1	52.4	44.5
15'	2025-04-09 13:30:00	00:14:16	70.3	40.1	50.8	51.5	43.6

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APPENDIX 12.1

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