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NAKKAŞ-BAŞAKŞEHİR HIGHWAY PROJECT BACKGROUND NOISE MEASUREMENT REPORT


Report no : 1215-M-45

Revision no : 00


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F R E K A N S
ÇEVRE LABORATUVARI

	<h2>Noise Measurement Report</h2>	AB-0360-T
		1215-M-45
		03-21
Project: Nakkaş-Başakşehir Highway Project Noise Measurement		

CLIENT: ACE Consulting and Engineering Inc.	
PROJECT: Nakkaş-Başakşehir Highway Project Background Noise Measurement Report	
REPORT NO AND MEASUREMENT DATE: 1215-M45, 17-24.03.2021	
STANDARDS: ISO 1996-2, ISO 1996-1	
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REPORT DATE: 30.03.2021	REVISION : 00
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Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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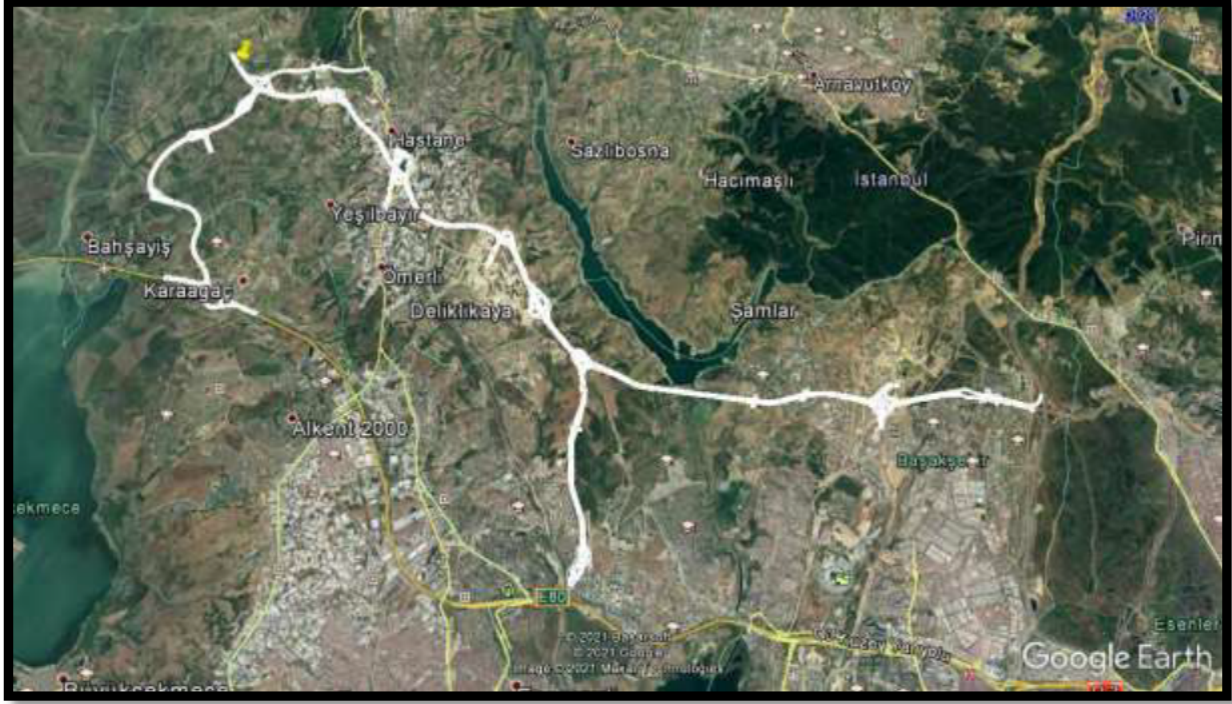
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A. INTRODUCTION

The main purpose of this noise measurement campaign is to determine background noise around Nakkaş-Başakşehir highway project. Noise measurements were conducted at twenty different locations in the vicinity of the project. Measurement points are selected according to the locations of the road and closest residential sensitive locations.

Noise measurements were conducted for 48 hours in each locations and ISO 1996-2 standard were followed.

Project: Nakkaş-Başakşehir Highway Project Noise Measurement**Figure 1. View of the Project**

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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B. MEASUREMENT LOCATIONS

Noise levels were measured at twenty different locations. Locations were selected as closest residential areas to the highway.

Measurement locations shown as Figure 2 and Figure 3.




Figure 2. Measurement Points 1-9

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Figure 3. Measurement Points 9-20

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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C. INSTRUMENTS

IEC 61672 – 1 type 1 sound level meters were used to conduct the sound level measurements.

Table 1. Sound Level Meter Technical Informations

Convergence	
Type	1
Weighting	A,C and Z
Log Interval	125 ms(8 points per second)
Peak Feature	Yes
Bandwidth	20 Hz – 20 kHz
Microphone	Digital MEMs
Dynamic measurement Range	20 dBA RMS – 120 dBA Peak
Internal Noise	<15 dBA
Results	Lmax, Lmin, Leq
Profiles at the same time	3
Data Logger	128 MB
Vibration Measurement	No
Energy	İntegral Li-Poly

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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D. MEASUREMENT RESULTS

Measurement results are presented as L_{day} , $L_{evening}$ and L_{night} values on Table 3. The detailed noise measurement results as per 1 hour intervals equivalent noise levels are submitted on appendix. From raw data extraneous noise events excluded to reach processed data.

Extraneous noise exclusion from raw data means detecting and eliminating noise events during measurement period which are irrelevant to the background noise tried to be measured.

Apart from extraneous noise events, irrelevant meteorological event periods are also excluded from the results. During measurement period rain events have continued on and off. Those rain events and related effects are extracted from measurement results.

To sum up; rinsed from rainy noise data and extraneous noise events, baseline levels are gathered.

Detailed measurement results are presented in the annex of report.

Table 2. Measurement Results, DEN Rating

Location	Noise Measurement Results		
	L_{day} (dBA) (07:00-19:00)	L_{eve} (dBA) (19:00-23:00)	L_{night} (dBA) (23:00-07:00)
First Day Point 1	56.8	47.8	47.7
Second Day Point 1	55.9	47.2	50.4
First Day Point 2	57.2	50.1	48.2
Second Day Point 2	58.0	51.9	49.8
First Day Point 3	60.9	61.6	54.4
Second Day Point 3	58.0	59.1	55.5
First Day Point 4	67.4	67.8	58.5
Second Day Point 4	66.1	64.6	56.9
First Day Point 5	63.1	62.3	57.6
Second Day Point 5	60.9	59.0	57.3
First Day Point 6	64.6	55.3	55.8
Second Day Point 6	65.1	56.1	53.2
First Day Point 7	54.4	52.9	47.0
Second Day Point 7	55.7	52.7	48.4
First Day Point 8	52.0	50.4	51.5
Second Day Point 8	50.5	50.9	50.2

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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Location	Noise Measurement Results		
	Lday (dBA) (07:00-19:00)	Leve(dBA) (19:00-23:00)	Lnight (dBA) (23:00-07:00)
First Day Point 9	53.6	51.7	51.4
Second Day Point 9	50.9	50.6	50.1
First Day Point 10	56.9	56.4	50.1
Second Day Point 10	55.3	56.0	51.5
First Day Point 11	64.9	62.0	58.3
Second Day Point 11	61.2	60.9	58.5
First Day Point 12	57.3	52.3	50.6
Second Day Point 12	54.3	51.7	51.0
First Day Point 13	56.6	57.4	53.6
Second Day Point 13	52.4	54.4	53.8
First Day Point 14	57.2	55.0	45.2
Second Day Point 14	56.9	55.1	46.2
First Day Point 15	56.0	49.2	48.3
Second Day Point 15	57.4	52.9	48.2
First Day Point 16	50.8	42.9	45.5
Second Day Point 16	52.6	45.3	46.1
First Day Point 17	54.9	57.2	50.4
Second Day Point 17	55.1	56.8	50.0
First Day Point 18	53.6	50.4	46.1
Second Day Point 18	54.2	51.3	50.0
First Day Point 19	56.5	55.1	52.4
Second Day Point 19	55.5	55.6	49.9
First Day Point 20	58.6	54.8	45.5
Second Day Point 20	59.5	56.0	48.2


Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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Table 3. Measurement Results, DN Rating


Location	Noise Measurement Results	
	Lday (dBA) (07:00-22:00)	Lnight (dBA) (22:00-07:00)
First Day Point 1	55.2	47.9
Second Day Point 1	55.0	50.6
First Day Point 2	55.7	48.9
Second Day Point 2	57.3	49.9
First Day Point 3	61.2	55.5
Second Day Point 3	60.9	55.7
First Day Point 4	67.8	59.6
Second Day Point 4	65.9	57.6
First Day Point 5	63.0	57.9
Second Day Point 5	60.6	57.3
First Day Point 6	63.3	56.9
Second Day Point 6	64.2	54.6
First Day Point 7	54.2	47.1
Second Day Point 7	55.4	48.2
First Day Point 8	51.8	51.3
Second Day Point 8	52.6	50.4
First Day Point 9	53.3	51.5
Second Day Point 9	53.1	50.5
First Day Point 10	56.8	51.2
Second Day Point 10	55.9	52.8
First Day Point 11	64.4	59.5
Second Day Point 11	61.5	58.9
First Day Point 12	56.6	51.4
Second Day Point 12	55.2	51.2
First Day Point 13	56.8	54.2
Second Day Point 13	55.7	53.8
First Day Point 14	57.3	46.4
Second Day Point 14	56.6	46.7
First Day Point 15	54.4	50.4
Second Day Point 15	56.8	49.1
First Day Point 16	49.0	45.3
Second Day Point 16	53.7	45.7
First Day Point 17	55.6	51.1
Second Day Point 17	55.4	50.6
First Day Point 18	52.3	48.0

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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Location	Noise Measurement Results	
	Lday (dBA) (07:00-22:00)	Lnight (dBA) (22:00-07:00)
Second Day Point 18	54.6	52.0
First Day Point 19	56.4	51.9
Second Day Point 19	55.5	51.3
First Day Point 20	57.3	49.8
Second Day Point 20	60.1	50.1

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

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E. APPENDIX

- APP 1: ACCREDITATION CERTIFICATE
- APP 2: DETAILED MEASUREMENT RESULTS

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir. Çevre mevzuatına ilişkin resmi işlerde kullanılamaz. This report shall not be reproduced other than in full except with the permission of the laboratory. Can not be used for the Environmental Law and Legislations. Testing reports without signature and seal are not valid. Test results are only related with process condition during the measurement.

APP 1:

ACCREDITATION CERTIFICATE



TÜRK AKREDİTASYON KURUMU

AKREDİTASYON SERTİFİKASI

Deney Laboratuvarı olarak faaliyet gösteren,

**FREKANS ÇEVRE ÖLÇÜM MÜHENDİSLİK DANIŞMANLIK
TAAHHÜT İTHALAT İHRACAT VE TİC. LTD. ŞTİ.**

Maslak Mah. Büyükdere Cad. Noramin İş Merkezi 237 B-4 Maslak Sarıyer İSTANBUL /
TÜRKİYE

TÜRKAK tarafından yapılan denetim sonucunda TS EN ISO/IEC 17025:2017 Standardına göre Ek'te yer alan kapsamlarda akredite edilmiştir.

Akreditasyon No : AB-0360-T

Akreditasyon Tarihi : 16 Aralık 2010

Revizyon Tarihi / No : 2 Ağustos 2019 / 08

Bu Sertifika, yukarıda açık adı ve adresi yazılı Kuruluşun TS EN ISO/IEC 17025:2017 Standardına, ilgili Yönetmelik ve Tebliğlere uygunluğunu sürdürmesi halinde , 1 Ağustos 2023 tarihine kadar geçerlidir.



Orbay EVRENSEVDİ
Genel Sekreter V.

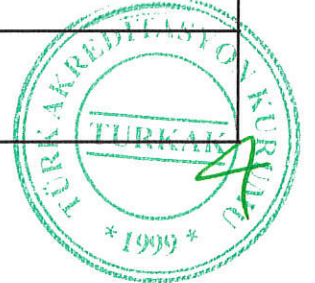
Türk Akreditasyon Kurumu (TÜRKAK) ISO/IEC 17025 alanında Avrupa Akreditasyon Birliği (EA) ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile çok taraflı anlaşma (MLA/MRA) imzalamıştır.

Akreditasyon Sertifikası Eki (Sayfa 1/3)

Akreditasyon Kapsamı


 Test TS EN ISO/IEC 17025 AB-0360-T	FREKANS ÇEVRE ÖLÇÜM MÜHENDİSLİK DANIŞMANLIK TAAHHÜT İTHALAT İHRACAT VE TİC. LTD. ŞTİ.	
	Akreditasyon No: AB-0360-T Revizyon No: 08 Tarih: 02.08.2019	
Deney Laboratuvarı		
Adresi : Maslak Mah. Büyükdere Cad. Noramin İş Merkezi 237 B-4 Maslak Sarıyer İSTANBUL/TÜRKİYE	Tel : 0216 425 22 44 Faks : 0 216 425 21 42 E-Posta : bilgi@frekanscevre.com Website : www.frekanscevre.com	

Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Akustik-Gürültü	Çevresel Gürültü Düzeyinin (L_{Aeq} , L_{Aeqt} , L_{regt} , L_{day} , L_{den} , $L_{evening}$, L_{AFNT} , L_E , L_{afmax} , L_{cenmax} , L_{rdn} , L_{rden}) Tespiti	TS 9315 ISO 1996-1 TS 9315 ISO 1996-1/T1
Akustik - Gürültü	Çevresel Gürültü Düzeyinin (L_{Aeq} , L_{Aeqt} , L_{regt} , L_{day} , L_{den} , $L_{evening}$, L_{AFNT} , L_E , L_{afmax} , L_{cenmax} , L_{rdn} , L_{rden}) Tespiti	TS ISO 1996-2 ve TS ISO 1996-2/T1
Akustik-Gürültü	Sesin dışarıda yayılırken azalması Bölüm 2: Genel hesaplama yöntemi	TS ISO 9613-2
Akustik-Gürültü	Çoklu Gürültü Kaynağına Sahip Sanayi Tesislerinde Yapılan Ses Basıncı Düzeyi Ölçümlerinden Ses Gücü Düzeyinin (ΔL_s , ΔL_f , ΔL_M , ΔL_a , L_{pA} , L_w) Tespiti	TS ISO 8297
Akustik-Gürültü	Karayolu Ulaşım Araçlarının Ses Gücü Düzeyinin (E , L_w) ve Karayolu Gürültüsünün Alansal Dağılımının Hesaplanması (L_{eq} , L , A_{div} , A_{atm} , A_{grd} , F , A_{dir} , F)	Fransız ulusal hesaplama yöntemi NMPB - 96 ve Fransız standardı XPS 31- 133
Akustik-Gürültü	Hava Ulaşım Araçlarından Kaynaklanan Gürültünün Alansal Dağılımının (L_{AE} , $L(x,y)$, $L(\xi d)$, L_x , L_d , Δ , (b,l) ΔV , ΔL , ΔT) Hesaplanması	ECAC. CEAC Doc 29
Akustik-Gürültü	Demiryolu Ulaşım Araçlarının Ses Gücü Düzeyinin ($E_{nr,c}$, $E_{r,c}$, L_E , $L_{E,i}^{95}$, E_s) ve Demiryolu Gürültüsünün Alansal Dağılımının (L_{Aeq} , C_{ref} , D_{dis} , D_{air} , D_{soil} , D_{meteo}) Hesaplanması	Hollanda ulusal hesaplama yöntemi RMR SRM II
Akustik-Gürültü	Kapalı Yapılarda Bina Akustik Performansının Yapı Elemanları Yoluyla Belirlenmesi ve İç Ortamda Oluşan Sesin Dışarıya Yayılımının (L_w , D , R , L_p) Tespiti	ISO 15712-4
Akustik-Gürültü	Yapılarda İçerdeki Sesin Dışarıya İletilmesinde Yapı Akustik Performansının Değerlendirilmesi (L_{eq} , R_w)	TS EN 12354-4

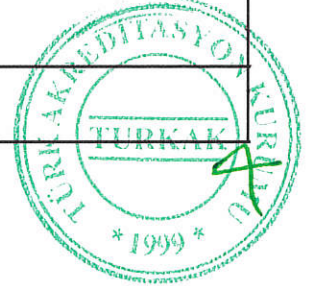


Akreditasyon Sertifikası Eki (Sayfa 2/3)

Akreditasyon Kapsamı


 <p>Test TS EN ISO/IEC 17025 AB-0360-T</p>	<p>FREKANS ÇEVRE ÖLÇÜM MÜHENDİSLİK DANIŞMANLIK TAAHHÜT İTHALAT İHRACAT VE TİC. LTD. ŞTİ.</p> <p>Akreditasyon No: AB-0360-T Revizyon No: 08 Tarih: 02.08.2019</p>
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Akustik-Gürültü	Gözlem Yöntemi Kullanılarak Gürültü Kaynaklarından Yapılan Ses Basıncı Düzeyi Ölçümlerinden Ses Gücü Düzeyinin ($L_{peq, T}$, ΔL_s , K_v , K_z , L_{pf} , L_w) Tespiti	TS EN ISO 3746
Akustik-Gürültü	Mühendislik Metodu Kullanılarak Gürültü Kaynaklarından Yapılan Ses Basıncı Düzeyi Ölçümlerinden Ses Gücü Düzeyinin (L_w , L_{WA}) Tespiti	TS EN ISO 3744
Akustik-Gürültü	Ray Üstündeki Taşıtlardan Kaynaklanan Gürültü Düzeyinin (L_{aeq}) Tespiti	TS EN ISO 3095
Akustik-Gürültü	Havalimanı çevresinde havaaracı kaynaklı gürültünün katılsız gözlemi (L_{pA})	ISO 20906
Titreşim	Madencilik Faaliyetleri Sonucunda Oluşan Hava Şoku ve Yer Titreşiminin Ölçülmesi (a , V)	TS 10354
Titreşim	Binalarda titreşimin ölçülmesi ve yapı hasarının tespiti (τ_r , a, V)	TS ISO 4866
Titreşim	Hidrolik güç kaynakları ve pompa tesisatlarındaki Makine Setlerinin Dönmeyen Parçalarında Titreşimin Ölçülmesi ve Değerlendirilmesi (V_{rms})	ISO 10816-5
İş Hijyeni Gürültü	Kişilerin Maruz Kaldığı Gürültü Düzeyinin Ölçülmesi ve İşitme Kayıplarının Tespiti	TS 2607 ISO 1999
İş Hijyeni Gürültü	Çalışma Ortamında Maruz Kalınan Gürültünün Tespiti	TS EN ISO 9612
Akustik-Gürültü	Yapılarda Odalar Arasında Sesin Yayılımında Yapının Akustik Performansının Değerlendirilmesi (L_{eq} , R_w)	TS EN 12354-1
Akustik-Gürültü	Yapılarda Odalar Arasında Darbe Sesinin Yayılımın Yapının Akustik Performansının Değerlendirilmesi (L_{eq} , R_w)	TS EN 12354-2
Akustik-Gürültü	Yapı Dışında Yayılan Sese Karşı Yapının Akustik Performansının Değerlendirilmesi (L_{eq} , R_w)	TS EN 12354-3



Akreditasyon Sertifikası Eki (Sayfa 3/3)

Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0360-T	FREKANS ÇEVRE ÖLÇÜM MÜHENDİSLİK DANIŞMANLIK TAAHHÜT İTHALAT İHRACAT VE TİC. LTD. ŞTİ. Akreditasyon No: AB-0360-T Revizyon No: 08 Tarih: 02.08.2019
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Akustik - Gürültü	Yapı Elemanlarında ve Yapılarda Ses Yalıtımının Alan Ölçümü - Bölüm 1: Hava ile yayılan sesin yalıtımı	TS EN ISO 16283-1
Akustik - Gürültü	Yapı elemanlarında ve yapılarda ses yalıtımının alan ölçümü - Bölüm 2: Darbe sesi yalıtımı	TS EN ISO 16283-2
Akustik - Gürültü	Yapı elemanlarında ve yapılarda ses yalıtımının alan ölçümü - Bölüm 3: Öncephedeki sesin yalıtımı	TS EN ISO 16283-3
Akustik - Gürültü	Sıradan Odalarda Çınlama Süresinin (L_{eq} , T) Tespiti	TS EN ISO 3382-2 ve TS EN ISO 3382-2/AC
Akustik - Gürültü	Odaların akustik parametrelerinin ölçülmesi - Bölüm 3: Açık ofisler	TS EN ISO 3382-3

KAPSAM SONU



Orbay EVRENSEVDİ
Genel Sekreter V.



APP 2 :

DETAILED MEASUREMENT RESULTS

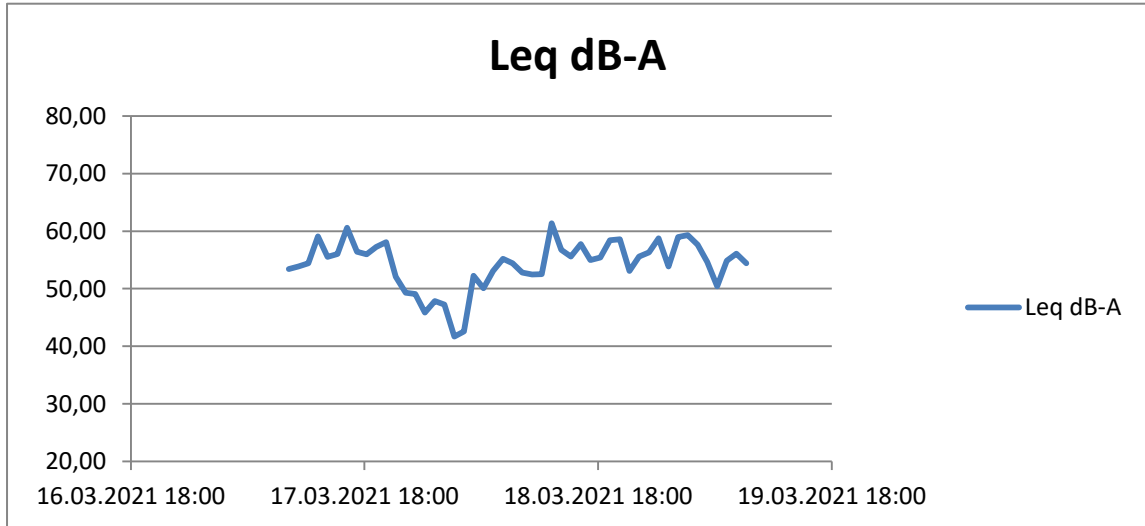
Location	Basaksehir	Measurement No.	Point 1
Standard	ISO 1996-2	Measurement Date	17-19.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	652048.00 d E
SLM No	Convergence			4553544.00 m N
Start Time	17.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location	Basaksehir	Measurement No.	Point 1				
Standard	ISO 1996-2	Measurement Date	17-19.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
17.03.2021 10:13	53,4	52,4	54,5	18.03.2021 10:13	52,8	52,1	53,6
17.03.2021 11:13	53,8	52,7	55,3	18.03.2021 11:13	52,5	51,5	53,5
17.03.2021 12:13	54,4	53,3	55,7	18.03.2021 12:13	52,5	51,6	53,5
17.03.2021 13:13	59,1	57,6	60,6	18.03.2021 13:13	61,3	58,2	63,9
17.03.2021 14:13	55,5	53,8	57,8	18.03.2021 14:13	56,7	53,8	60,0
17.03.2021 15:13	56,0	54,5	58,0	18.03.2021 15:13	55,6	53,3	58,5
17.03.2021 16:13	60,6	58,8	62,5	18.03.2021 16:13	57,7	55,9	59,9
17.03.2021 17:13	56,4	55,2	58,0	18.03.2021 17:13	55,0	53,2	57,3
17.03.2021 18:13	56,0	55,1	56,9	18.03.2021 18:13	55,4	53,7	57,7
17.03.2021 19:13	57,3	55,9	58,8	18.03.2021 19:13	58,4	56,4	60,8
17.03.2021 20:13	58,1	56,6	59,5	18.03.2021 20:13	58,6	57,4	59,8
17.03.2021 21:13	52,1	50,9	53,2	18.03.2021 21:13	53,1	52,2	53,9
17.03.2021 22:13	49,3	48,5	50,2	18.03.2021 22:13	55,6	54,4	57,3
17.03.2021 23:13	49,1	48,1	50,1	18.03.2021 23:13	56,3	54,4	59,7
18.03.2021 00:13	45,9	45,1	46,7	19.03.2021 00:13	58,7	57,5	60,3
18.03.2021 01:13	47,8	46,6	49,1	19.03.2021 01:13	53,9	52,6	55,6
18.03.2021 02:13	47,3	45,7	48,8	19.03.2021 02:13	59,0	57,4	61,2
18.03.2021 03:13	41,7	41,0	42,5	19.03.2021 03:13	59,3	56,9	62,8
18.03.2021 04:13	42,6	41,4	44,1	19.03.2021 04:13	57,7	55,4	60,6
18.03.2021 05:13	52,3	50,8	53,8	19.03.2021 05:13	54,6	51,8	58,1
18.03.2021 06:13	50,1	49,2	51,0	19.03.2021 06:13	50,4	49,6	51,3
18.03.2021 07:13	53,1	52,1	54,1	19.03.2021 07:13	54,8	54,1	55,6
18.03.2021 08:13	55,2	54,3	56,2	19.03.2021 08:13	56,1	55,2	57,0
18.03.2021 09:13	54,4	53,7	55,2	19.03.2021 09:13	54,4	53,7	55,2



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Basaksehir	Measurement No.	Point 1
Standard	ISO 1996-2	Measurement Date	17-19.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	56,8	47,8	47,7	55,9	47,2	50,4
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	55,2	47,9	55,0	50,6		
From raw data extraneous noise events excluded to reach processed data						

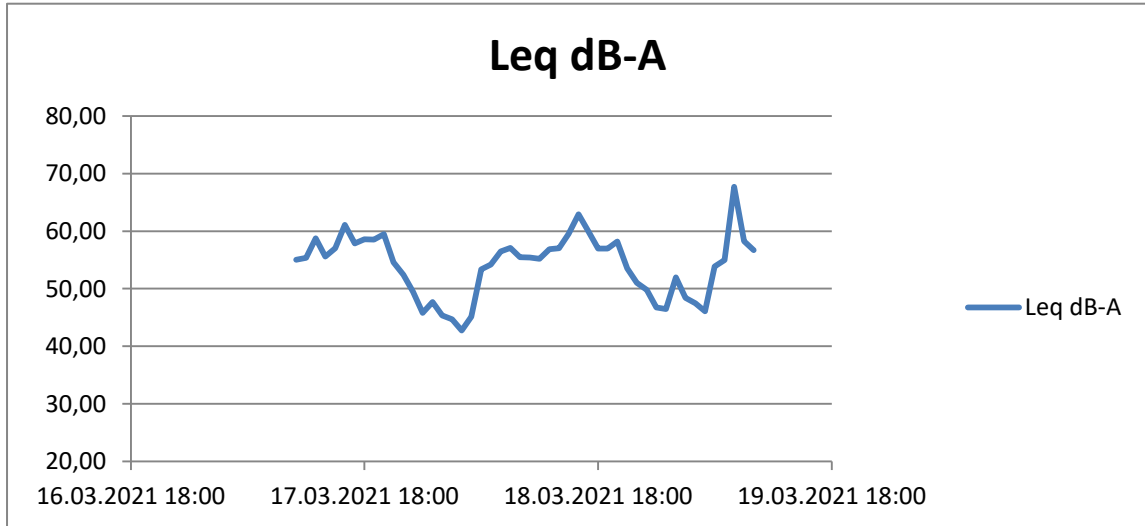
Location	Basaksehir	Measurement No.	Point 2
Standard	ISO 1996-2	Measurement Date	17-19.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	651945.00 d E
SLM No	Convergence			4553305.00 m N
Start Time	17.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location	Basaksehir	Measurement No.	Point 2				
Standard	ISO 1996-2	Measurement Date	17-19.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
17.03.2021 10:59	55,0	53,7	56,6	18.03.2021 10:59	55,4	54,1	57,2
17.03.2021 11:59	55,3	54,1	56,7	18.03.2021 11:59	55,2	54,0	56,6
17.03.2021 12:59	58,8	57,3	60,3	18.03.2021 12:59	56,8	55,4	58,4
17.03.2021 13:59	55,6	54,4	57,0	18.03.2021 13:59	57,0	54,8	59,9
17.03.2021 14:59	57,0	55,5	58,9	18.03.2021 14:59	59,6	55,9	63,3
17.03.2021 15:59	61,1	58,2	64,1	18.03.2021 15:59	62,9	58,7	66,5
17.03.2021 16:59	57,9	56,6	59,4	18.03.2021 16:59	60,0	56,1	63,8
17.03.2021 17:59	58,6	57,5	59,6	18.03.2021 17:59	57,0	54,9	59,5
17.03.2021 18:59	58,5	57,2	60,0	18.03.2021 18:59	57,0	55,4	58,8
17.03.2021 19:59	59,5	57,6	61,6	18.03.2021 19:59	58,2	56,9	59,5
17.03.2021 20:59	54,6	53,4	55,8	18.03.2021 20:59	53,5	52,4	54,6
17.03.2021 21:59	52,4	51,1	54,0	18.03.2021 21:59	51,0	49,9	52,2
17.03.2021 22:59	49,5	48,1	50,8	18.03.2021 22:59	49,8	47,8	51,9
17.03.2021 23:59	45,8	44,4	47,6	18.03.2021 23:59	46,8	45,5	48,3
18.03.2021 00:59	47,7	46,2	49,1	19.03.2021 00:59	46,5	45,4	47,8
18.03.2021 01:59	45,4	43,7	47,2	19.03.2021 01:59	52,0	49,9	54,3
18.03.2021 02:59	44,7	43,1	46,2	19.03.2021 02:59	48,4	45,3	52,1
18.03.2021 03:59	42,8	39,9	46,0	19.03.2021 03:59	47,5	44,7	50,6
18.03.2021 04:59	45,1	42,8	47,9	19.03.2021 04:59	46,1	44,3	48,2
18.03.2021 05:59	53,4	51,8	54,9	19.03.2021 05:59	53,9	52,1	55,7
18.03.2021 06:59	54,2	52,8	55,7	19.03.2021 06:59	55,0	53,8	56,2
18.03.2021 07:59	56,5	55,1	57,8	19.03.2021 07:59	67,7	61,8	71,2
18.03.2021 08:59	57,1	54,3	59,7	19.03.2021 08:59	58,3	55,5	60,9
18.03.2021 09:59	55,5	54,1	57,1	19.03.2021 09:59	56,7	55,3	58,3

Location	Basaksehir	Measurement No.	Point 2
Standard	ISO 1996-2	Measurement Date	17-19.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	57,2	50,1	48,2	58,0	51,4	49,8
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	55,7	48,9	57,3	49,9		
From raw data extraneous noise events excluded to reach processed data						

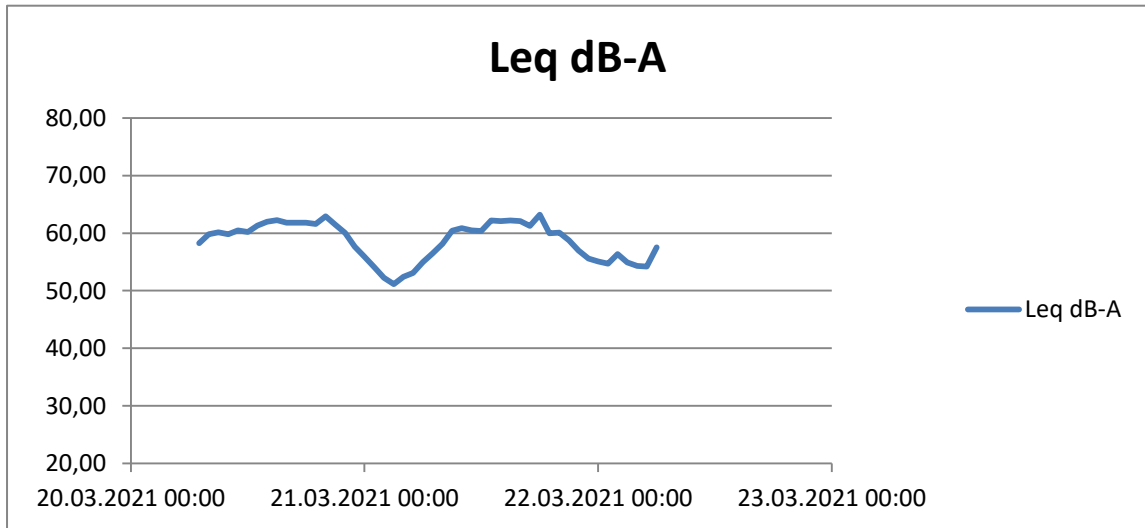
Location	Basaksehir	Measurement No.	Point 3
Standard	ISO 1996-2	Measurement Date	20-22.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	651355.00 d E
SLM No	Convergence			4553233.00 m N
Start Time	20.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	6 meters

Logger Graph (dBA)



Location	Basaksehir	Measurement No.	Point 3				
Standard	ISO 1996-2	Measurement Date	20-22.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
20.03.2021 07:00	58,3	57,0	59,5	21.03.2021 07:00	56,5	55,2	57,8
20.03.2021 08:00	59,8	58,7	60,9	21.03.2021 08:00	58,1	56,9	59,4
20.03.2021 09:00	60,1	59,0	61,2	21.03.2021 09:00	60,4	59,2	61,6
20.03.2021 10:00	59,8	58,6	61,0	21.03.2021 10:00	60,9	59,7	62,1
20.03.2021 11:00	60,5	59,1	61,8	21.03.2021 11:00	60,5	59,2	61,8
20.03.2021 12:00	60,2	59,1	61,2	21.03.2021 12:00	60,3	59,2	61,5
20.03.2021 13:00	61,3	60,1	62,5	21.03.2021 13:00	62,2	61,1	63,3
20.03.2021 14:00	62,0	60,6	63,3	21.03.2021 14:00	62,1	60,9	63,2
20.03.2021 15:00	62,2	60,9	63,7	21.03.2021 15:00	62,2	61,0	63,5
20.03.2021 16:00	61,8	60,8	62,8	21.03.2021 16:00	62,1	61,0	63,2
20.03.2021 17:00	61,8	60,8	62,8	21.03.2021 17:00	61,3	60,1	62,4
20.03.2021 18:00	61,8	60,7	63,0	21.03.2021 18:00	63,2	60,9	65,1
20.03.2021 19:00	61,6	60,6	62,5	21.03.2021 19:00	60,0	58,7	61,2
20.03.2021 20:00	62,9	61,9	63,9	21.03.2021 20:00	60,1	58,8	61,3
20.03.2021 21:00	61,5	60,4	62,6	21.03.2021 21:00	58,8	57,5	60,0
20.03.2021 22:00	60,0	58,8	61,2	21.03.2021 22:00	57,0	55,7	58,2
20.03.2021 23:00	57,7	56,3	59,1	21.03.2021 23:00	55,6	54,3	56,8
21.03.2021 00:00	55,9	54,5	57,3	22.03.2021 00:00	55,1	53,7	56,3
21.03.2021 01:00	54,1	52,5	55,7	22.03.2021 01:00	54,7	53,4	56,1
21.03.2021 02:00	52,3	50,9	53,5	22.03.2021 02:00	56,4	54,3	58,6
21.03.2021 03:00	51,1	49,9	52,5	22.03.2021 03:00	54,9	53,7	56,2
21.03.2021 04:00	52,4	51,5	53,6	22.03.2021 04:00	54,3	53,0	55,5
21.03.2021 05:00	53,1	52,1	54,2	22.03.2021 05:00	54,2	53,1	55,3
21.03.2021 06:00	55,0	53,4	56,9	22.03.2021 06:00	57,5	56,4	58,8



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Basaksehir	Measurement No.	Point 3
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	60,9	61,6	54,4	58,0	59,1	55,5
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	61,2	55,5	60,9	55,7		
From raw data extraneous noise events excluded to reach processed data						

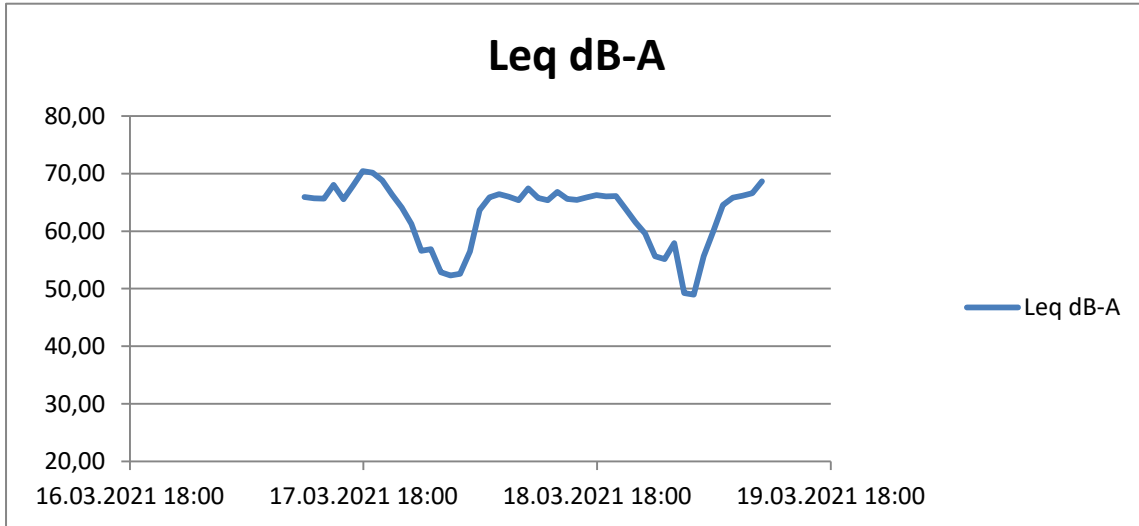
Location	Basaksehir	Measurement No.	Point 4
Standard	ISO 1996-2	Measurement Date	17-19.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	650119.00 d E
SLM No	Convergence			4553033.00 m N
Start Time	17.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location		Basaksehir		Measurement No.		Point 4	
Standard		ISO 1996-2		Measurement Date		17-19.03.2021	
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
17.03.2021 11:56	65,9	64,4	67,5	18.03.2021 11:56	65,7	64,3	67,3
17.03.2021 12:56	65,7	64,1	67,6	18.03.2021 12:56	65,4	63,8	66,9
17.03.2021 13:56	65,6	64,1	67,3	18.03.2021 13:56	66,8	64,0	70,2
17.03.2021 14:56	68,0	67,0	69,1	18.03.2021 14:56	65,6	64,1	67,1
17.03.2021 15:56	65,5	64,0	67,2	18.03.2021 15:56	65,4	63,9	67,1
17.03.2021 16:56	67,9	66,6	69,2	18.03.2021 16:56	65,9	64,3	67,5
17.03.2021 17:56	70,4	69,4	71,6	18.03.2021 17:56	66,3	64,8	67,7
17.03.2021 18:56	70,1	69,0	71,3	18.03.2021 18:56	66,0	64,7	67,3
17.03.2021 19:56	68,8	67,7	70,1	18.03.2021 19:56	66,1	64,4	68,0
17.03.2021 20:56	66,3	65,0	67,8	18.03.2021 20:56	63,9	62,5	65,4
17.03.2021 21:56	64,1	62,7	65,5	18.03.2021 21:56	61,5	60,1	63,1
17.03.2021 22:56	61,2	59,6	62,8	18.03.2021 22:56	59,6	57,8	61,4
17.03.2021 23:56	56,6	55,2	58,0	18.03.2021 23:56	55,6	54,1	57,1
18.03.2021 00:56	56,8	55,5	58,3	19.03.2021 00:56	55,2	53,2	57,4
18.03.2021 01:56	52,9	51,3	54,7	19.03.2021 01:56	57,9	55,9	59,9
18.03.2021 02:56	52,3	50,9	53,6	19.03.2021 02:56	49,2	47,7	50,8
18.03.2021 03:56	52,6	51,2	54,3	19.03.2021 03:56	48,9	47,2	50,8
18.03.2021 04:56	56,5	55,1	57,9	19.03.2021 04:56	55,6	54,0	57,4
18.03.2021 05:56	63,7	61,3	66,5	19.03.2021 05:56	60,0	58,0	61,9
18.03.2021 06:56	65,8	64,4	67,5	19.03.2021 06:56	64,6	62,7	66,6
18.03.2021 07:56	66,4	65,1	67,9	19.03.2021 07:56	65,8	64,3	67,3
18.03.2021 08:56	66,0	64,5	67,7	19.03.2021 08:56	66,2	64,9	67,6
18.03.2021 09:56	65,4	63,9	67,0	19.03.2021 09:56	66,6	65,1	68,2
18.03.2021 10:56	67,4	66,1	68,9	19.03.2021 10:56	68,6	67,3	70,1

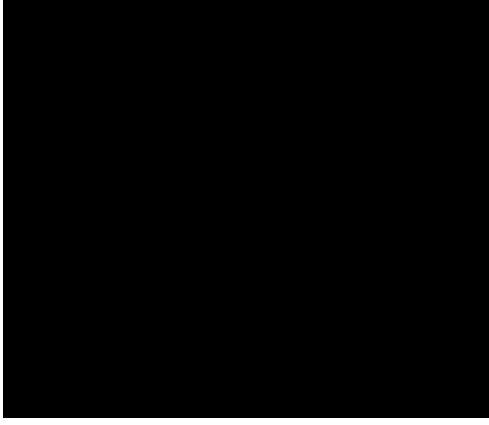


NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Basaksehir	Measurement No.	Point 4
Standard	ISO 1996-2	Measurement Date	17-19.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	67,4	67,8	58,5	66,1	64,6	56,9
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	67,8	59,6	65,9	57,6		
From raw data extraneous noise events excluded to reach processed data						

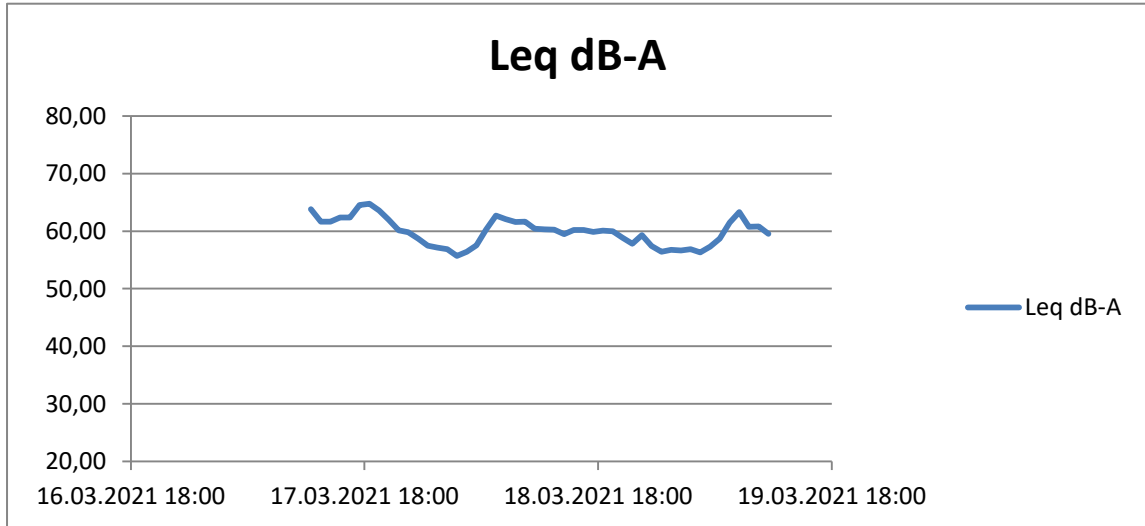
Location	Basaksehir	Measurement No.	Point 5
Standard	ISO 1996-2	Measurement Date	17-19.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	649075.00 d E
SLM No	Convergence			4552313.00 m N
Start Time	17.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	6 meters

Logger Graph (dBA)



Location	Basaksehir	Measurement No.	Point 5				
Standard	ISO 1996-2	Measurement Date	17-19.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
17.03.2021 12:30	63,8	61,0	67,4	18.03.2021 12:30	60,3	59,2	61,9
17.03.2021 13:30	61,6	60,7	63,0	18.03.2021 13:30	60,2	59,1	61,8
17.03.2021 14:30	61,6	60,8	62,9	18.03.2021 14:30	59,5	58,4	61,0
17.03.2021 15:30	62,3	61,5	63,6	18.03.2021 15:30	60,2	59,0	62,0
17.03.2021 16:30	62,4	61,6	63,5	18.03.2021 16:30	60,2	59,2	61,7
17.03.2021 17:30	64,5	63,9	65,2	18.03.2021 17:30	59,8	58,8	61,3
17.03.2021 18:30	64,7	64,2	65,4	18.03.2021 18:30	60,1	59,2	61,3
17.03.2021 19:30	63,6	63,0	64,3	18.03.2021 19:30	60,0	59,0	61,4
17.03.2021 20:30	62,0	61,4	62,7	18.03.2021 20:30	58,8	57,9	60,2
17.03.2021 21:30	60,1	59,4	61,2	18.03.2021 21:30	57,8	56,9	59,3
17.03.2021 22:30	59,8	59,1	60,8	18.03.2021 22:30	59,3	57,1	62,0
17.03.2021 23:30	58,7	58,1	59,5	18.03.2021 23:30	57,4	56,4	59,2
18.03.2021 00:30	57,5	56,9	58,1	19.03.2021 00:30	56,4	55,8	57,3
18.03.2021 01:30	57,1	56,6	57,8	19.03.2021 01:30	56,7	56,1	57,5
18.03.2021 02:30	56,9	56,3	57,5	19.03.2021 02:30	56,7	56,1	57,4
18.03.2021 03:30	55,7	55,1	56,3	19.03.2021 03:30	56,9	56,2	58,0
18.03.2021 04:30	56,4	55,9	57,1	19.03.2021 04:30	56,3	55,8	57,1
18.03.2021 05:30	57,5	56,9	58,2	19.03.2021 05:30	57,3	56,6	58,2
18.03.2021 06:30	60,3	59,5	61,2	19.03.2021 06:30	58,7	57,9	59,9
18.03.2021 07:30	62,7	61,9	63,8	19.03.2021 07:30	61,5	60,4	63,2
18.03.2021 08:30	62,1	61,2	63,4	19.03.2021 08:30	63,3	62,2	64,9
18.03.2021 09:30	61,6	60,6	63,3	19.03.2021 09:30	60,8	59,7	62,4
18.03.2021 10:30	61,6	60,4	63,8	19.03.2021 10:30	60,8	59,6	63,0
18.03.2021 11:30	60,4	59,2	62,1	19.03.2021 11:30	59,5	58,4	61,2



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Basaksehir	Measurement No.	Point 5
Standard	ISO 1996-2	Measurement Date	17-19.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	63,1	62,3	57,6	60,9	59,0	57,3
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	63,0	57,9	60,6	57,3		
From raw data extraneous noise events excluded to reach processed data						

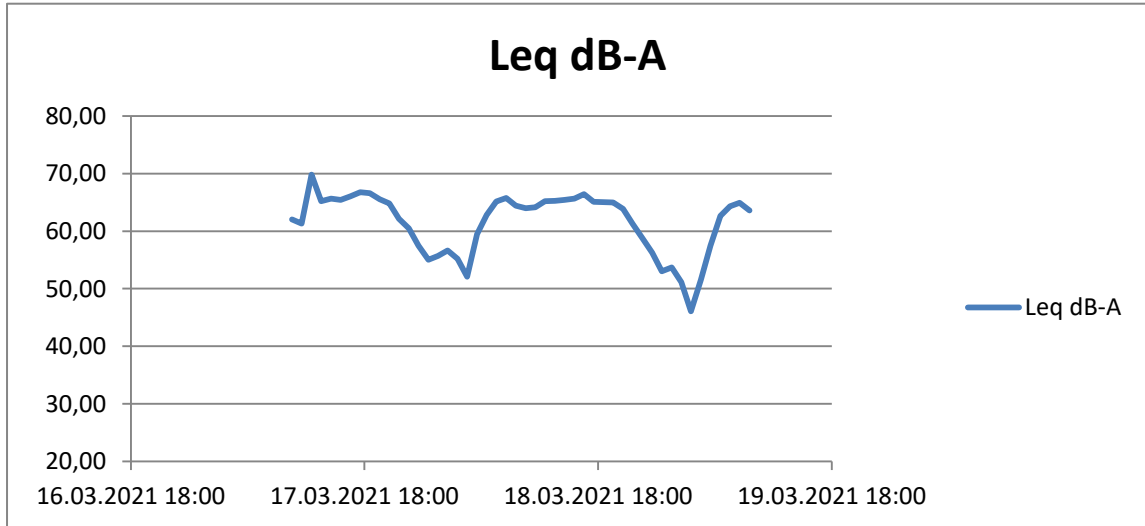
Location	Basaksehir	Measurement No.	Point 6
Standard	ISO 1996-2	Measurement Date	17-19.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	649075.00 d E
SLM No	Convergence			4552313.00 m N
Start Time	17.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location	Basaksehir	Measurement No.	Point 6				
Standard	ISO 1996-2	Measurement Date	17-19.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
17.03.2021 10:33	62,0	58,0	67,0	18.03.2021 10:33	64,0	62,9	65,2
17.03.2021 11:33	61,3	56,8	66,8	18.03.2021 11:33	64,1	63,2	65,2
17.03.2021 12:33	69,8	63,2	75,5	18.03.2021 12:33	65,2	64,1	66,4
17.03.2021 13:33	65,2	63,9	66,8	18.03.2021 13:33	65,2	64,3	66,4
17.03.2021 14:33	65,7	64,8	66,7	18.03.2021 14:33	65,4	64,3	66,7
17.03.2021 15:33	65,4	64,5	66,4	18.03.2021 15:33	65,6	64,4	67,2
17.03.2021 16:33	66,0	65,0	67,1	18.03.2021 16:33	66,4	64,9	68,3
17.03.2021 17:33	66,8	66,0	67,5	18.03.2021 17:33	65,1	64,0	66,5
17.03.2021 18:33	66,6	65,8	67,4	18.03.2021 18:33	65,0	63,9	66,1
17.03.2021 19:33	65,5	64,7	66,4	18.03.2021 19:33	65,0	63,5	67,5
17.03.2021 20:33	64,8	63,9	65,9	18.03.2021 20:33	63,9	62,8	65,0
17.03.2021 21:33	62,1	61,2	63,0	18.03.2021 21:33	61,2	60,3	62,2
17.03.2021 22:33	60,5	59,6	61,4	18.03.2021 22:33	58,8	57,8	59,8
17.03.2021 23:33	57,5	56,4	58,6	18.03.2021 23:33	56,3	55,3	57,3
18.03.2021 00:33	55,0	54,0	56,0	19.03.2021 00:33	53,0	51,9	54,2
18.03.2021 01:33	55,7	54,9	56,6	19.03.2021 01:33	53,7	52,2	55,3
18.03.2021 02:33	56,6	54,8	58,8	19.03.2021 02:33	51,1	50,1	52,2
18.03.2021 03:33	55,2	54,1	56,3	19.03.2021 03:33	46,1	44,9	47,6
18.03.2021 04:33	52,1	51,1	53,0	19.03.2021 04:33	51,5	50,6	52,5
18.03.2021 05:33	59,5	58,1	61,0	19.03.2021 05:33	57,5	56,4	58,6
18.03.2021 06:33	62,8	61,8	63,7	19.03.2021 06:33	62,7	61,5	63,9
18.03.2021 07:33	65,1	64,3	66,0	19.03.2021 07:33	64,3	63,5	65,1
18.03.2021 08:33	65,7	65,0	66,6	19.03.2021 08:33	64,9	64,1	65,7
18.03.2021 09:33	64,4	63,5	65,4	19.03.2021 09:33	63,6	62,7	64,5



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Basaksehir	Measurement No.	Point 6
Standard	ISO 1996-2	Measurement Date	17-19.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	64,6	55,3	55,8	65,1	56,1	53,2
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	63,3	56,9	64,2	54,6		

From raw data extraneous noise events excluded to reach processed data

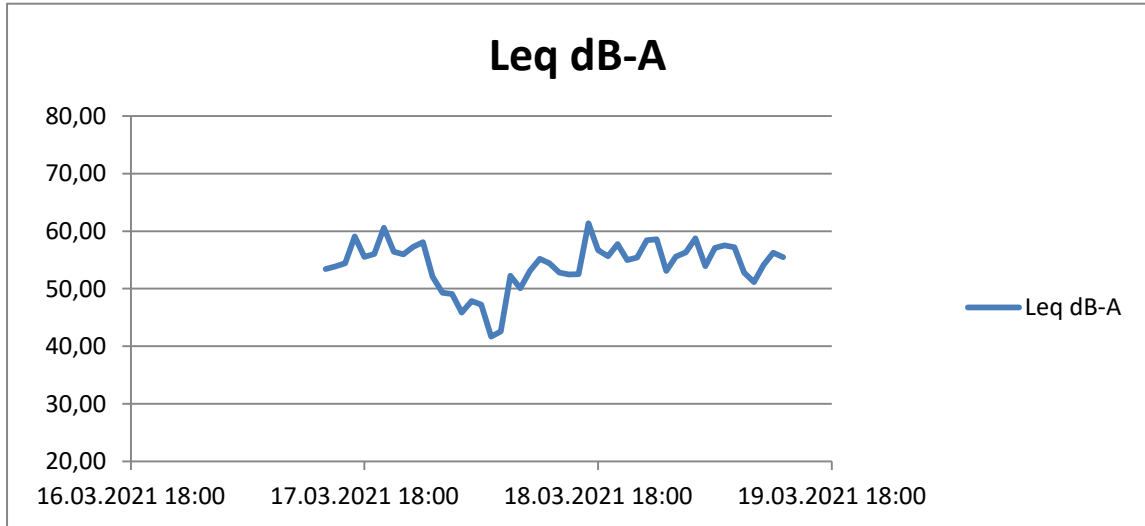
Location	Kayabası	Measurement No.	Point 7
Standard	ISO 1996-2	Measurement Date	17-19.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	647417.00 d E
SLM No	Convergence			4552420.00 m N
Start Time	17.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location		Kayabası		Measurement No.		Point 7	
Standard		ISO 1996-2		Measurement Date		17-19.03.2021	
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
17.03.2021 14:00	53,4	52,4	54,5	18.03.2021 14:00	52,8	52,1	53,6
17.03.2021 15:00	53,8	52,7	55,3	18.03.2021 15:00	52,5	51,5	53,5
17.03.2021 16:00	54,4	53,3	55,7	18.03.2021 16:00	52,5	51,6	53,5
17.03.2021 17:00	59,1	57,6	60,6	18.03.2021 17:00	61,3	58,2	63,9
17.03.2021 18:00	55,5	53,8	57,8	18.03.2021 18:00	56,7	53,8	60,0
17.03.2021 19:00	56,0	54,5	58,0	18.03.2021 19:00	55,6	53,3	58,5
17.03.2021 20:00	60,6	58,8	62,5	18.03.2021 20:00	57,7	55,9	59,9
17.03.2021 21:00	56,4	55,2	58,0	18.03.2021 21:00	55,0	53,2	57,3
17.03.2021 22:00	56,0	55,1	56,9	18.03.2021 22:00	55,4	53,7	57,7
17.03.2021 23:00	57,3	55,9	58,8	18.03.2021 23:00	58,4	56,4	60,8
18.03.2021 00:00	58,1	56,6	59,5	19.03.2021 00:00	58,6	57,4	59,8
18.03.2021 01:00	52,1	50,9	53,2	19.03.2021 01:00	53,1	52,2	53,9
18.03.2021 02:00	49,3	48,5	50,2	19.03.2021 02:00	55,6	54,4	57,3
18.03.2021 03:00	49,1	48,1	50,1	19.03.2021 03:00	56,3	54,4	59,7
18.03.2021 04:00	45,9	45,1	46,7	19.03.2021 04:00	58,7	57,5	60,3
18.03.2021 05:00	47,8	46,6	49,1	19.03.2021 05:00	53,9	52,7	55,6
18.03.2021 06:00	47,3	45,7	48,8	19.03.2021 06:00	57,1	55,5	59,1
18.03.2021 07:00	41,7	41,0	42,5	19.03.2021 07:00	57,5	55,6	60,5
18.03.2021 08:00	42,6	41,4	44,1	19.03.2021 08:00	57,2	55,3	59,8
18.03.2021 09:00	52,3	50,8	53,8	19.03.2021 09:00	52,8	48,6	57,4
18.03.2021 10:00	50,1	49,2	51,0	19.03.2021 10:00	51,1	50,3	52,1
18.03.2021 11:00	53,1	52,1	54,1	19.03.2021 11:00	54,1	53,2	55,1
18.03.2021 12:00	55,2	54,3	56,2	19.03.2021 12:00	56,3	55,3	57,2
18.03.2021 13:00	54,4	53,7	55,2	19.03.2021 13:00	55,4	54,7	56,2



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Kayabası	Measurement No.	Point 7
Standard	ISO 1996-2	Measurement Date	17-19.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	54,4	52,9	47,0	55,7	52,7	48,4
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	54,2	47,1	55,4	48,2		
From raw data extraneous noise events excluded to reach processed data						

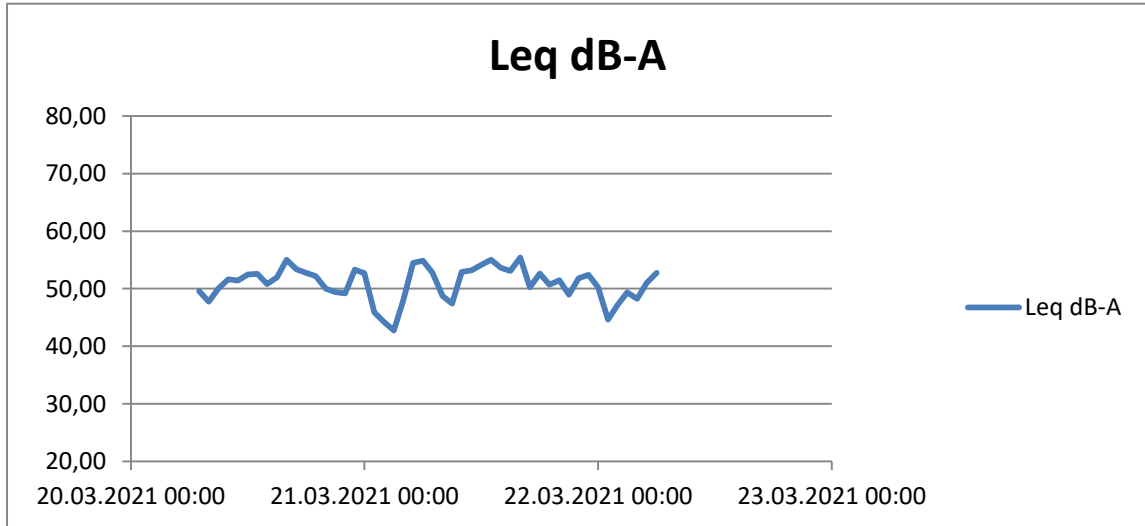
Location	Kayabası	Measurement No.	Point 8
Standard	ISO 1996-2	Measurement Date	20-22.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	646397.00 d E
SLM No	Convergence			4552150.00 m N
Start Time	20.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location	Kayabası	Measurement No.	Point 8				
Standard	ISO 1996-2	Measurement Date	20-22.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
20.03.2021 07:00	49,6	48,0	51,3	21.03.2021 07:00	52,8	50,1	55,2
20.03.2021 08:00	47,7	45,1	50,4	21.03.2021 08:00	48,8	45,7	51,8
20.03.2021 09:00	50,0	48,1	52,0	21.03.2021 09:00	47,4	44,3	51,0
20.03.2021 10:00	51,6	49,2	53,9	21.03.2021 10:00	52,9	50,5	55,4
20.03.2021 11:00	51,4	48,5	54,2	21.03.2021 11:00	53,2	50,5	56,0
20.03.2021 12:00	52,5	49,5	55,0	21.03.2021 12:00	54,1	51,1	56,8
20.03.2021 13:00	52,6	49,7	55,3	21.03.2021 13:00	55,0	52,2	57,5
20.03.2021 14:00	50,8	48,0	53,7	21.03.2021 14:00	53,6	50,9	56,1
20.03.2021 15:00	52,0	48,9	54,9	21.03.2021 15:00	53,1	50,3	55,6
20.03.2021 16:00	55,0	52,1	57,7	21.03.2021 16:00	55,4	52,5	58,0
20.03.2021 17:00	53,4	50,5	56,1	21.03.2021 17:00	50,3	47,3	53,0
20.03.2021 18:00	52,8	49,7	55,6	21.03.2021 18:00	52,6	49,7	55,5
20.03.2021 19:00	52,2	48,9	55,2	21.03.2021 19:00	50,7	48,2	53,4
20.03.2021 20:00	50,0	47,8	52,4	21.03.2021 20:00	51,5	49,0	54,2
20.03.2021 21:00	49,4	47,4	51,5	21.03.2021 21:00	49,0	45,5	52,3
20.03.2021 22:00	49,2	46,6	51,9	21.03.2021 22:00	51,8	48,9	54,4
20.03.2021 23:00	53,3	49,7	56,7	21.03.2021 23:00	52,4	49,0	55,6
21.03.2021 00:00	52,7	45,9	58,8	22.03.2021 00:00	50,2	47,6	52,9
21.03.2021 01:00	45,9	43,2	48,5	22.03.2021 01:00	44,6	40,7	48,4
21.03.2021 02:00	44,2	42,0	46,7	22.03.2021 02:00	47,2	44,2	50,0
21.03.2021 03:00	42,7	40,5	46,2	22.03.2021 03:00	49,3	45,7	53,0
21.03.2021 04:00	48,1	45,9	50,8	22.03.2021 04:00	48,2	44,4	52,1
21.03.2021 05:00	54,5	51,7	57,0	22.03.2021 05:00	51,0	47,6	54,0
21.03.2021 06:00	54,9	52,5	57,2	22.03.2021 06:00	52,8	49,2	55,8

Location	Kayabası	Measurement No.	Point 8
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	52,0	50,4	51,5	50,5	50,9	50,2

Results Ldn				
	First Day Results(dBA)		Second Day Results(dBA)	
	Day	Night	Day	Night
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00
Leq dBA	51,8	51,3	52,6	50,4

From raw data extraneous noise events excluded to reach processed data

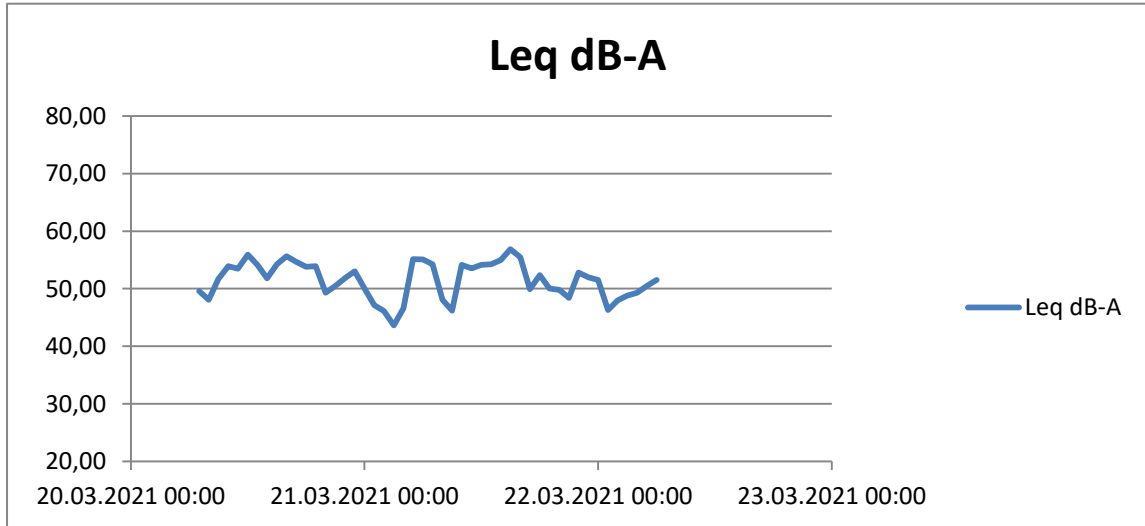
Location	Kayabası	Measurement No.	Point 9
Standard	ISO 1996-2	Measurement Date	20-22.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	644824.00 d E
SLM No	Convergence			4551772.00 m N
Start Time	20.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location	Kayabası	Measurement No.	Point 9				
Standard	ISO 1996-2	Measurement Date	20-22.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
20.03.2021 07:00	49,6	47,3	52,0	21.03.2021 07:00	54,2	51,6	56,6
20.03.2021 08:00	48,1	45,2	51,7	21.03.2021 08:00	48,1	45,2	51,0
20.03.2021 09:00	51,7	49,4	54,1	21.03.2021 09:00	46,2	42,5	50,3
20.03.2021 10:00	53,9	50,8	56,9	21.03.2021 10:00	54,1	51,5	56,8
20.03.2021 11:00	53,5	49,3	57,0	21.03.2021 11:00	53,5	51,0	56,0
20.03.2021 12:00	55,9	52,6	58,9	21.03.2021 12:00	54,2	51,2	56,9
20.03.2021 13:00	54,2	51,4	56,6	21.03.2021 13:00	54,3	51,2	57,4
20.03.2021 14:00	51,8	49,4	54,0	21.03.2021 14:00	55,0	52,1	58,2
20.03.2021 15:00	54,3	51,4	56,9	21.03.2021 15:00	56,9	51,8	63,4
20.03.2021 16:00	55,6	52,9	58,0	21.03.2021 16:00	55,5	52,8	58,0
20.03.2021 17:00	54,6	51,8	57,4	21.03.2021 17:00	49,9	47,3	52,5
20.03.2021 18:00	53,8	51,3	56,2	21.03.2021 18:00	52,3	49,5	55,0
20.03.2021 19:00	53,9	49,5	58,0	21.03.2021 19:00	50,0	47,8	52,2
20.03.2021 20:00	49,3	46,7	52,0	21.03.2021 20:00	49,8	47,2	52,6
20.03.2021 21:00	50,5	47,8	52,8	21.03.2021 21:00	48,4	45,5	51,1
20.03.2021 22:00	51,9	49,0	54,4	21.03.2021 22:00	52,8	50,1	55,2
20.03.2021 23:00	53,0	50,2	55,5	21.03.2021 23:00	52,0	49,2	54,4
21.03.2021 00:00	50,1	47,4	53,1	22.03.2021 00:00	51,5	48,0	54,8
21.03.2021 01:00	47,1	44,3	49,7	22.03.2021 01:00	46,3	42,9	49,6
21.03.2021 02:00	46,1	43,4	48,8	22.03.2021 02:00	47,9	46,2	49,8
21.03.2021 03:00	43,6	41,2	46,1	22.03.2021 03:00	48,8	46,5	50,9
21.03.2021 04:00	46,6	44,4	48,9	22.03.2021 04:00	49,3	46,4	51,8
21.03.2021 05:00	55,2	52,6	57,6	22.03.2021 05:00	50,5	47,8	53,2
21.03.2021 06:00	55,1	52,6	57,3	22.03.2021 06:00	51,5	48,5	54,4

Location	Kayabası	Measurement No.	Point 9
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	53,6	51,7	51,4	50,9	50,6	50,1

Results Ldn				
	First Day Results(dBA)		Second Day Results(dBA)	
	Day	Night	Day	Night
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00
Leq dBA	53,3	51,5	53,1	50,5

From raw data extraneous noise events excluded to reach processed data

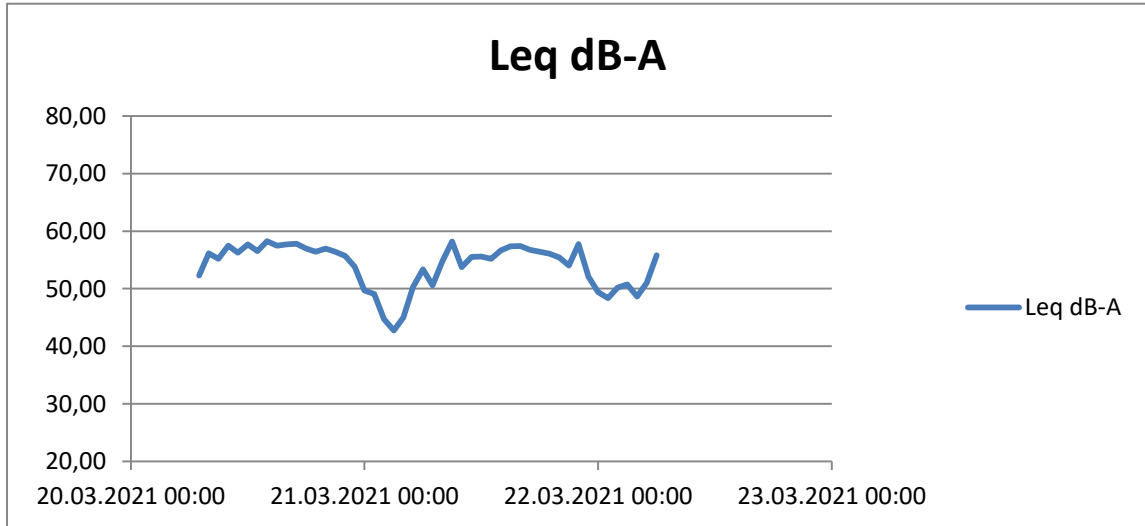
Location	Bahcesehir	Measurement No.	Point 10
Standard	ISO 1996-2	Measurement Date	20-22.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	642379.00 d E
SLM No	Convergence			4549031.00 m N
Start Time	20.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location	Bahcesehir	Measurement No.	Point 10
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Hourly Measurement Results (dBA)

Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
20.03.2021 07:00	52,3	49,6	55,1	21.03.2021 07:00	50,6	48,9	52,2
20.03.2021 08:00	56,1	53,1	59,3	21.03.2021 08:00	54,8	52,9	56,6
20.03.2021 09:00	55,2	53,0	57,1	21.03.2021 09:00	58,2	54,4	61,6
20.03.2021 10:00	57,5	54,5	60,6	21.03.2021 10:00	53,8	52,0	55,5
20.03.2021 11:00	56,3	54,0	58,5	21.03.2021 11:00	55,5	53,8	57,3
20.03.2021 12:00	57,7	55,2	60,2	21.03.2021 12:00	55,6	53,7	57,5
20.03.2021 13:00	56,5	54,6	58,6	21.03.2021 13:00	55,2	53,6	56,8
20.03.2021 14:00	58,2	55,6	61,0	21.03.2021 14:00	56,6	55,0	58,4
20.03.2021 15:00	57,5	55,4	59,8	21.03.2021 15:00	57,4	55,5	59,4
20.03.2021 16:00	57,7	55,8	59,7	21.03.2021 16:00	57,4	55,4	59,5
20.03.2021 17:00	57,8	55,8	60,3	21.03.2021 17:00	56,7	54,7	58,7
20.03.2021 18:00	57,0	54,9	58,9	21.03.2021 18:00	56,4	54,5	58,5
20.03.2021 19:00	56,4	54,6	58,3	21.03.2021 19:00	56,1	54,0	58,2
20.03.2021 20:00	57,0	55,1	59,1	21.03.2021 20:00	55,4	53,6	57,2
20.03.2021 21:00	56,4	54,5	58,4	21.03.2021 21:00	54,0	51,9	56,2
20.03.2021 22:00	55,7	53,4	58,0	21.03.2021 22:00	57,7	53,3	61,4
20.03.2021 23:00	53,8	51,8	55,7	21.03.2021 23:00	52,1	48,7	55,2
21.03.2021 00:00	49,7	48,1	51,4	22.03.2021 00:00	49,4	46,8	51,9
21.03.2021 01:00	49,1	47,0	51,3	22.03.2021 01:00	48,3	46,3	50,7
21.03.2021 02:00	44,7	43,2	46,4	22.03.2021 02:00	50,2	48,0	52,8
21.03.2021 03:00	42,8	41,7	44,3	22.03.2021 03:00	50,7	49,1	52,8
21.03.2021 04:00	45,0	43,9	46,8	22.03.2021 04:00	48,6	46,7	51,0
21.03.2021 05:00	50,3	48,8	52,0	22.03.2021 05:00	51,0	48,6	54,0
21.03.2021 06:00	53,4	51,6	55,2	22.03.2021 06:00	55,8	52,5	58,7



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Bahcesehir	Measurement No.	Point 10
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	56,9	56,4	50,1	55,3	56,0	51,5
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	56,8	51,2	55,9	52,8		

From raw data extraneous noise events excluded to reach processed data

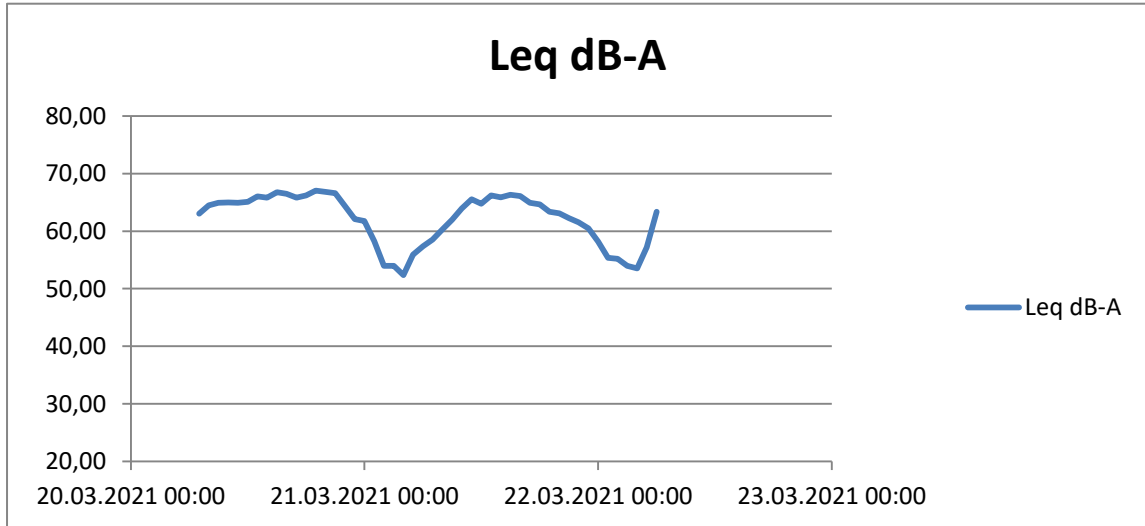
Location	Bahcesehir	Measurement No.	Point 11
Standard	ISO 1996-2	Measurement Date	20-22.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	642814.00 d E
SLM No	Convergence			4548061.00 m N
Start Time	20.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location		Bahcesehir		Measurement No.		Point 11	
Standard		ISO 1996-2		Measurement Date		20-22.03.2021	
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
20.03.2021 07:00	63,0	62,0	64,1	21.03.2021 07:00	58,5	57,2	59,9
20.03.2021 08:00	64,5	63,5	65,5	21.03.2021 08:00	60,3	58,9	61,7
20.03.2021 09:00	64,9	63,8	66,1	21.03.2021 09:00	62,0	60,6	63,3
20.03.2021 10:00	65,0	63,9	66,0	21.03.2021 10:00	63,9	62,7	65,1
20.03.2021 11:00	64,9	63,8	66,2	21.03.2021 11:00	65,5	64,2	66,8
20.03.2021 12:00	65,1	64,1	66,2	21.03.2021 12:00	64,7	63,6	65,9
20.03.2021 13:00	66,0	64,9	67,3	21.03.2021 13:00	66,2	65,1	67,2
20.03.2021 14:00	65,8	64,7	67,0	21.03.2021 14:00	65,9	64,7	67,0
20.03.2021 15:00	66,8	65,5	68,2	21.03.2021 15:00	66,3	65,2	67,4
20.03.2021 16:00	66,5	65,4	67,7	21.03.2021 16:00	66,1	64,9	67,3
20.03.2021 17:00	65,8	64,8	66,8	21.03.2021 17:00	64,9	63,9	66,0
20.03.2021 18:00	66,2	65,2	67,3	21.03.2021 18:00	64,6	63,5	65,8
20.03.2021 19:00	67,0	65,8	68,3	21.03.2021 19:00	63,3	62,1	64,5
20.03.2021 20:00	66,8	65,9	67,8	21.03.2021 20:00	63,1	61,7	64,4
20.03.2021 21:00	66,6	65,6	67,5	21.03.2021 21:00	62,2	61,0	63,4
20.03.2021 22:00	64,3	63,1	65,4	21.03.2021 22:00	61,5	60,4	62,7
20.03.2021 23:00	62,1	60,7	63,5	21.03.2021 23:00	60,5	59,2	61,9
21.03.2021 00:00	61,7	59,8	63,9	22.03.2021 00:00	58,2	56,1	60,9
21.03.2021 01:00	58,3	56,5	60,2	22.03.2021 01:00	55,3	53,5	57,3
21.03.2021 02:00	54,0	52,6	55,3	22.03.2021 02:00	55,2	53,0	57,4
21.03.2021 03:00	54,0	52,5	55,4	22.03.2021 03:00	54,0	51,4	56,7
21.03.2021 04:00	52,4	51,0	53,8	22.03.2021 04:00	53,5	51,7	55,4
21.03.2021 05:00	55,9	54,4	57,4	22.03.2021 05:00	57,2	55,6	58,8
21.03.2021 06:00	57,4	55,8	59,0	22.03.2021 06:00	63,4	62,3	64,5

Location	Bahcesehir	Measurement No.	Point 11
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	64,9	62,0	58,3	61,2	60,9	58,5
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00		22:00-07:00		07:00-22:00	
Leq dBA	64,4		59,5		61,3	
From raw data extraneous noise events excluded to reach processed data						

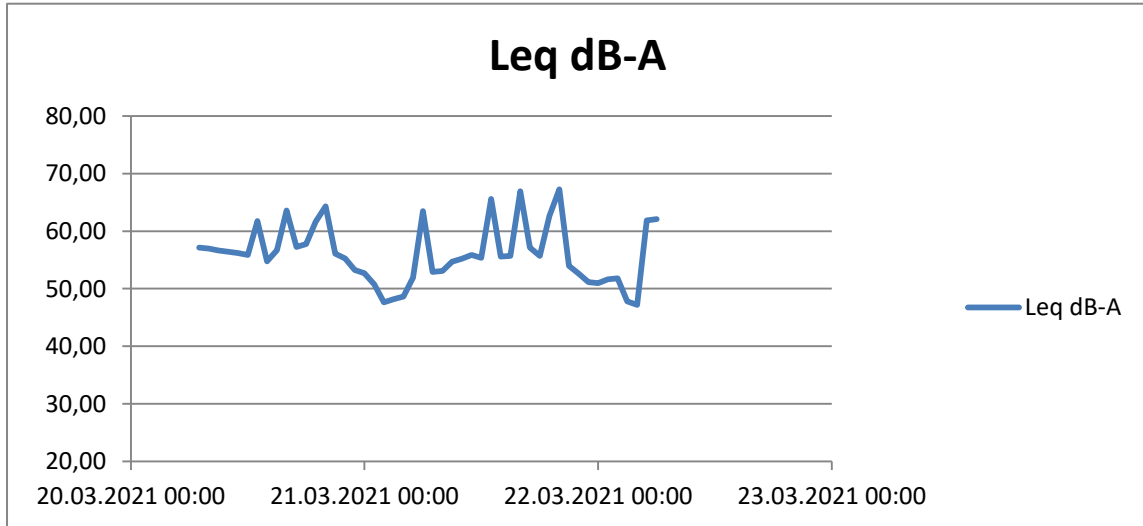
Location	Bahcesehir	Measurement No.	Point 12
Standard	ISO 1996-2	Measurement Date	20-22.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	643163.00 d E
SLM No	Convergence			4547503.00 m N
Start Time	20.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location	Bahcesehir			Measurement No.	Point 12		
Standard	ISO 1996-2			Measurement Date	20-22.03.2021		
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
20.03.2021 07:00	57,2	56,4	58,0	21.03.2021 07:00	52,9	51,0	55,4
20.03.2021 08:00	56,9	56,2	57,8	21.03.2021 08:00	53,1	51,7	55,0
20.03.2021 09:00	56,6	55,6	57,7	21.03.2021 09:00	54,7	53,3	56,4
20.03.2021 10:00	56,4	55,6	57,4	21.03.2021 10:00	55,2	54,0	56,7
20.03.2021 11:00	56,2	55,3	57,2	21.03.2021 11:00	55,9	54,4	57,6
20.03.2021 12:00	55,9	55,0	57,0	21.03.2021 12:00	55,4	54,3	56,5
20.03.2021 13:00	61,7	59,2	64,1	21.03.2021 13:00	65,6	62,9	67,9
20.03.2021 14:00	54,7	53,7	55,9	21.03.2021 14:00	55,6	54,7	56,7
20.03.2021 15:00	56,7	55,6	58,0	21.03.2021 15:00	55,7	54,8	56,7
20.03.2021 16:00	63,6	61,3	65,7	21.03.2021 16:00	66,9	63,8	69,5
20.03.2021 17:00	57,2	56,4	58,2	21.03.2021 17:00	57,1	55,0	61,5
20.03.2021 18:00	57,7	56,9	58,6	21.03.2021 18:00	55,7	54,8	56,7
20.03.2021 19:00	61,7	59,1	64,1	21.03.2021 19:00	62,7	59,4	65,6
20.03.2021 20:00	64,3	62,0	66,5	21.03.2021 20:00	67,2	64,2	69,7
20.03.2021 21:00	56,1	55,2	57,2	21.03.2021 21:00	54,0	52,8	55,3
20.03.2021 22:00	55,3	54,1	56,5	21.03.2021 22:00	52,6	51,5	53,8
20.03.2021 23:00	53,3	51,9	55,3	21.03.2021 23:00	51,1	49,9	52,6
21.03.2021 00:00	52,7	51,4	54,2	22.03.2021 00:00	51,0	48,9	53,8
21.03.2021 01:00	50,7	49,4	52,3	22.03.2021 01:00	51,7	48,6	55,1
21.03.2021 02:00	47,6	46,1	49,9	22.03.2021 02:00	51,8	48,6	55,3
21.03.2021 03:00	48,2	46,5	51,4	22.03.2021 03:00	47,8	46,3	49,5
21.03.2021 04:00	48,6	46,8	51,9	22.03.2021 04:00	47,2	45,8	48,8
21.03.2021 05:00	51,9	49,6	54,5	22.03.2021 05:00	61,8	59,1	64,2
21.03.2021 06:00	63,5	60,9	65,8	22.03.2021 06:00	62,1	59,4	64,9



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Bahcesehir	Measurement No.	Point 12
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	57,3	52,3	50,6	54,3	51,7	51,0
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	56,6	51,4	55,2	51,2		

From raw data extraneous noise events excluded to reach processed data

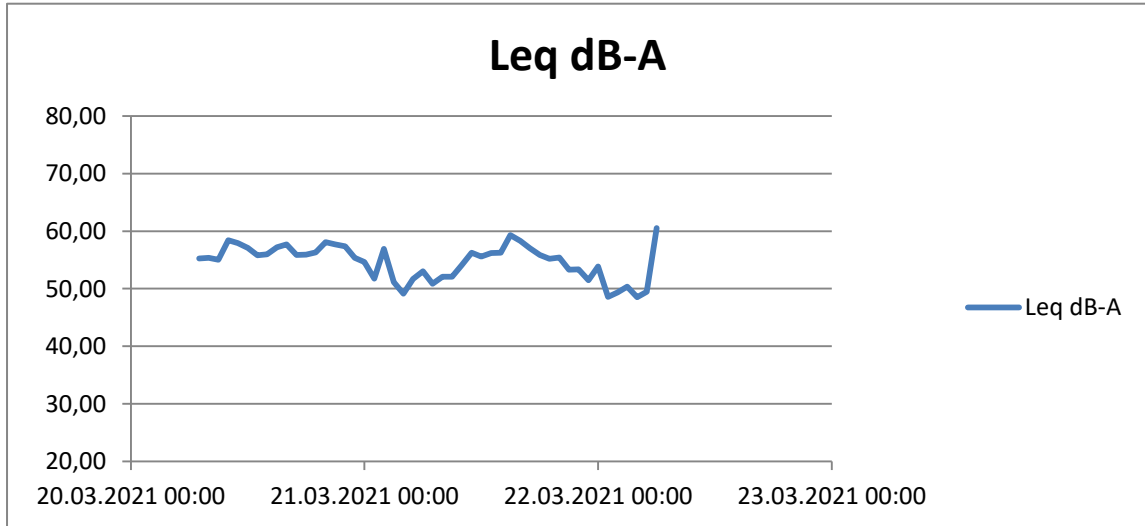
Location	Bahcesehir	Measurement No.	Point 13
Standard	ISO 1996-2	Measurement Date	20-22.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	642853.00 d E
SLM No	Convergence			4548498.00 m N
Start Time	20.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location	Bahcesehir			Measurement No.	Point 13		
Standard	ISO 1996-2			Measurement Date	20-22.03.2021		
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
20.03.2021 07:00	55,3	49,4	60,1	21.03.2021 07:00	50,9	48,7	54,5
20.03.2021 08:00	55,3	50,5	60,3	21.03.2021 08:00	52,1	49,7	55,5
20.03.2021 09:00	55,0	52,7	58,0	21.03.2021 09:00	52,1	50,4	54,0
20.03.2021 10:00	58,4	53,1	64,1	21.03.2021 10:00	54,1	52,3	56,1
20.03.2021 11:00	57,9	54,0	62,9	21.03.2021 11:00	56,3	53,5	59,5
20.03.2021 12:00	57,1	54,5	60,4	21.03.2021 12:00	55,6	53,7	57,7
20.03.2021 13:00	55,8	53,9	57,6	21.03.2021 13:00	56,2	54,5	58,0
20.03.2021 14:00	56,0	52,0	60,6	21.03.2021 14:00	56,2	53,8	59,7
20.03.2021 15:00	57,2	54,3	61,1	21.03.2021 15:00	59,3	53,8	65,1
20.03.2021 16:00	57,7	55,7	59,9	21.03.2021 16:00	58,3	55,7	61,7
20.03.2021 17:00	55,8	53,8	58,2	21.03.2021 17:00	57,0	55,0	59,3
20.03.2021 18:00	55,9	53,9	58,0	21.03.2021 18:00	55,8	54,0	58,6
20.03.2021 19:00	56,3	54,1	58,9	21.03.2021 19:00	55,2	53,3	57,1
20.03.2021 20:00	58,1	56,1	60,3	21.03.2021 20:00	55,4	53,5	57,6
20.03.2021 21:00	57,7	55,7	60,2	21.03.2021 21:00	53,3	51,6	55,1
20.03.2021 22:00	57,3	54,9	60,1	21.03.2021 22:00	53,4	51,4	55,3
20.03.2021 23:00	55,4	53,5	57,3	21.03.2021 23:00	51,4	49,8	53,1
21.03.2021 00:00	54,6	52,1	57,5	22.03.2021 00:00	53,8	49,4	58,5
21.03.2021 01:00	51,8	49,7	54,3	22.03.2021 01:00	48,6	46,6	51,0
21.03.2021 02:00	56,9	49,1	62,5	22.03.2021 02:00	49,4	47,1	52,3
21.03.2021 03:00	51,2	49,1	53,7	22.03.2021 03:00	50,4	47,7	53,7
21.03.2021 04:00	49,1	47,3	51,4	22.03.2021 04:00	48,5	46,5	51,3
21.03.2021 05:00	51,7	49,8	53,9	22.03.2021 05:00	49,5	47,6	52,3
21.03.2021 06:00	53,0	51,6	54,7	22.03.2021 06:00	60,5	55,5	65,8



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Bahcesehir	Measurement No.	Point 13
Standard	ISO 1996-2	Measurement Date	20-22.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	56,6	57,4	53,6	52,4	54,4	53,8
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	56,8	54,2	55,7	53,8		

From raw data extraneous noise events excluded to reach processed data

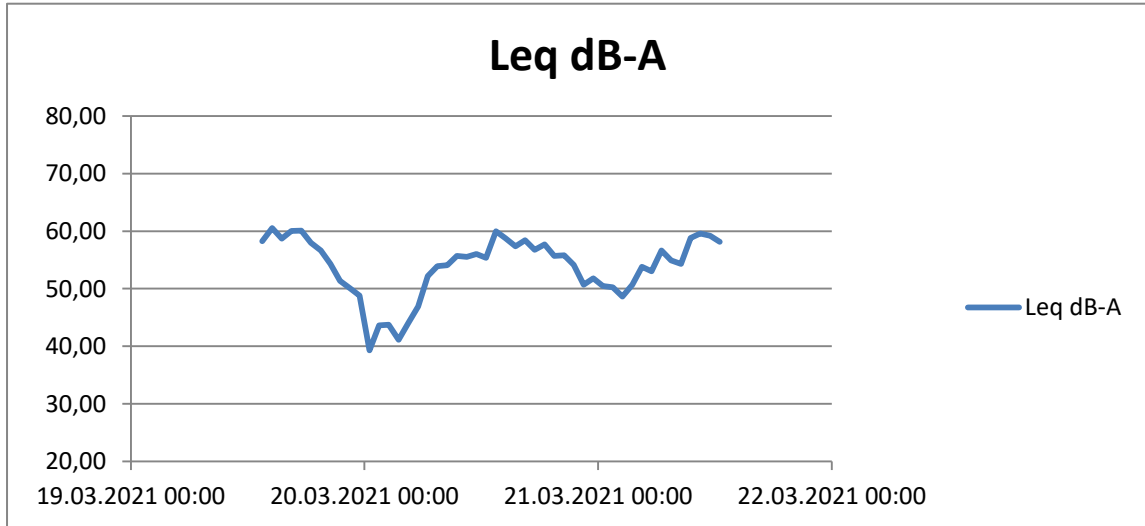
Location	Delikkaya	Measurement No.	Point 14
Standard	ISO 1996-2	Measurement Date	19-21.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	640800.00 d E
SLM No	Convergence			4552409.00 m N
Start Time	19.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location	Delikkaya		Measurement No.	Point 14			
Standard	ISO 1996-2		Measurement Date	19-21.03.2021			
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
19.03.2021 13:30	58,3	56,4	60,1	20.03.2021 13:30	60,0	57,5	62,4
19.03.2021 14:30	60,5	58,6	62,6	20.03.2021 14:30	58,7	56,2	61,5
19.03.2021 15:30	58,7	57,0	60,3	20.03.2021 15:30	57,4	55,3	59,7
19.03.2021 16:30	60,0	58,5	61,5	20.03.2021 16:30	58,4	56,3	60,6
19.03.2021 17:30	60,1	58,5	61,6	20.03.2021 17:30	56,7	54,8	58,9
19.03.2021 18:30	57,9	56,4	59,4	20.03.2021 18:30	57,7	55,9	59,8
19.03.2021 19:30	56,6	55,2	58,1	20.03.2021 19:30	55,7	53,9	57,9
19.03.2021 20:30	54,3	52,2	56,7	20.03.2021 20:30	55,8	53,8	57,9
19.03.2021 21:30	51,4	49,6	53,1	20.03.2021 21:30	54,1	52,2	56,3
19.03.2021 22:30	50,1	48,7	51,5	20.03.2021 22:30	50,7	48,1	53,4
19.03.2021 23:30	48,8	47,3	50,5	20.03.2021 23:30	51,8	49,1	54,6
20.03.2021 00:30	39,3	38,2	41,0	21.03.2021 00:30	50,5	46,1	54,6
20.03.2021 01:30	43,6	42,3	45,0	21.03.2021 01:30	50,2	44,6	55,4
20.03.2021 02:30	43,8	42,3	45,2	21.03.2021 02:30	48,6	45,3	52,3
20.03.2021 03:30	41,1	40,1	42,3	21.03.2021 03:30	50,7	47,7	54,3
20.03.2021 04:30	44,0	42,4	45,4	21.03.2021 04:30	53,8	49,9	57,7
20.03.2021 05:30	46,9	45,5	48,3	21.03.2021 05:30	53,1	48,9	57,0
20.03.2021 06:30	52,2	50,5	53,6	21.03.2021 06:30	56,6	53,1	60,0
20.03.2021 07:30	53,9	52,4	55,3	21.03.2021 07:30	54,9	51,6	58,3
20.03.2021 08:30	54,1	52,3	55,8	21.03.2021 08:30	54,3	50,3	57,9
20.03.2021 09:30	55,7	53,5	58,1	21.03.2021 09:30	58,8	55,1	62,2
20.03.2021 10:30	55,5	54,1	57,1	21.03.2021 10:30	59,6	55,6	63,2
20.03.2021 11:30	56,0	54,1	58,2	21.03.2021 11:30	59,2	55,5	62,5
20.03.2021 12:30	55,4	53,3	57,6	21.03.2021 12:30	58,1	54,9	61,1

Location	Delikkaya	Measurement No.	Point 14
Standard	ISO 1996-2	Measurement Date	19-21.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	57,2	55,0	45,2	56,9	55,1	46,2
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00		22:00-07:00		07:00-22:00	
Leq dBA	57,3		46,4		56,6	
From raw data extraneous noise events excluded to reach processed data						

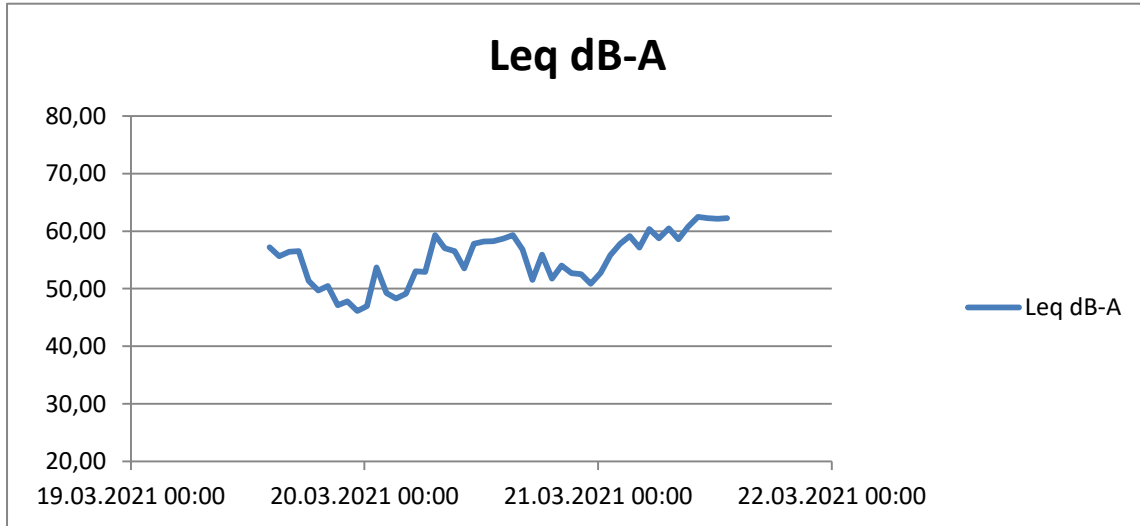
Location	Hastane	Measurement No.	Point 15
Standard	ISO 1996-2	Measurement Date	19-21.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	636078.00 d E
SLM No	Convergence			4556582.00 m N
Start Time	19.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location		Hastane		Measurement No.		Point 15	
Standard		ISO 1996-2		Measurement Date		19-21.03.2021	
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
19.03.2021 14:15	57,2	54,8	60,6	20.03.2021 14:15	58,7	54,8	62,3
19.03.2021 15:15	55,6	52,3	59,8	20.03.2021 15:15	59,3	54,9	63,3
19.03.2021 16:15	56,4	51,6	61,0	20.03.2021 16:15	56,8	53,2	60,9
19.03.2021 17:15	56,5	52,7	60,4	20.03.2021 17:15	51,5	50,0	53,4
19.03.2021 18:15	51,3	49,5	53,7	20.03.2021 18:15	55,9	51,8	59,2
19.03.2021 19:15	49,7	48,2	51,9	20.03.2021 19:15	51,8	50,2	53,7
19.03.2021 20:15	50,4	48,9	52,5	20.03.2021 20:15	54,0	51,9	56,3
19.03.2021 21:15	47,1	45,8	48,8	20.03.2021 21:15	52,7	50,1	55,4
19.03.2021 22:15	47,8	46,0	50,1	20.03.2021 22:15	52,5	49,3	55,5
19.03.2021 23:15	46,1	45,4	47,1	20.03.2021 23:15	50,8	48,0	53,7
20.03.2021 00:15	47,0	44,8	49,9	21.03.2021 00:15	52,8	49,2	56,0
20.03.2021 01:15	53,7	47,9	58,0	21.03.2021 01:15	55,8	51,7	59,1
20.03.2021 02:15	49,3	46,6	52,5	21.03.2021 02:15	57,8	53,7	61,3
20.03.2021 03:15	48,3	45,3	51,4	21.03.2021 03:15	59,1	54,8	62,5
20.03.2021 04:15	49,2	46,2	51,9	21.03.2021 04:15	57,1	53,1	60,7
20.03.2021 05:15	53,0	49,9	55,9	21.03.2021 05:15	60,4	56,2	63,8
20.03.2021 06:15	52,9	50,3	55,4	21.03.2021 06:15	58,7	54,9	62,0
20.03.2021 07:15	59,3	53,9	63,6	21.03.2021 07:15	60,5	56,1	63,9
20.03.2021 08:15	57,0	51,3	62,6	21.03.2021 08:15	58,6	54,6	61,8
20.03.2021 09:15	56,5	50,8	61,5	21.03.2021 09:15	60,7	56,4	64,2
20.03.2021 10:15	53,5	49,9	57,7	21.03.2021 10:15	62,5	58,4	65,9
20.03.2021 11:15	57,8	51,6	62,1	21.03.2021 11:15	62,2	57,8	65,7
20.03.2021 12:15	58,2	53,6	62,1	21.03.2021 12:15	62,1	57,6	65,7
20.03.2021 13:15	58,3	54,0	62,2	21.03.2021 13:15	62,2	58,0	65,9



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Hastane	Measurement No.	Point 15
Standard	ISO 1996-2	Measurement Date	19-21.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	56,0	49,2	48,3	57,4	52,9	48,2
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	54,4	50,4	56,8	49,1		

From raw data extraneous noise events excluded to reach processed data

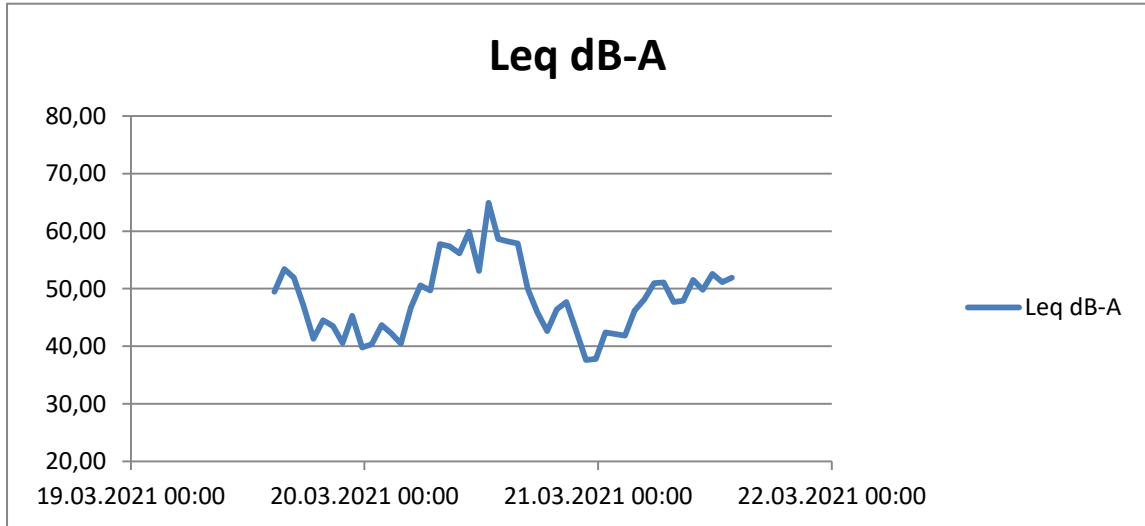
Location	Hastane	Measurement No.	Point 16
Standard	ISO 1996-2	Measurement Date	19-21.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	634927.00 d E
SLM No	Convergence			4557295.00 m N
Start Time	19.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location		Hastane		Measurement No.		Point 16	
Standard		ISO 1996-2		Measurement Date		19-21.03.2021	
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
19.03.2021 14:45	49,5	46,4	54,6	20.03.2021 14:45	58,2	51,9	61,9
19.03.2021 15:45	53,4	46,0	57,3	20.03.2021 15:45	57,8	52,3	61,8
19.03.2021 16:45	51,9	46,8	56,3	20.03.2021 16:45	50,0	42,4	54,0
19.03.2021 17:45	47,0	42,3	51,0	20.03.2021 17:45	45,9	41,5	49,7
19.03.2021 18:45	41,3	39,4	43,5	20.03.2021 18:45	42,7	39,8	45,6
19.03.2021 19:45	44,5	42,0	47,1	20.03.2021 19:45	46,4	44,0	49,1
19.03.2021 20:45	43,5	40,9	46,1	20.03.2021 20:45	47,7	45,3	50,0
19.03.2021 21:45	40,6	39,0	42,2	20.03.2021 21:45	42,6	40,1	45,3
19.03.2021 22:45	45,3	38,7	50,2	20.03.2021 22:45	37,6	36,2	39,4
19.03.2021 23:45	39,8	36,8	43,8	20.03.2021 23:45	37,8	36,4	39,8
20.03.2021 00:45	40,4	36,4	43,7	21.03.2021 00:45	42,4	37,7	46,5
20.03.2021 01:45	43,7	39,9	47,4	21.03.2021 01:45	42,1	38,9	45,8
20.03.2021 02:45	42,3	38,5	46,4	21.03.2021 02:45	41,8	38,7	46,3
20.03.2021 03:45	40,5	37,6	42,8	21.03.2021 03:45	46,2	42,2	51,5
20.03.2021 04:45	46,7	40,1	50,6	21.03.2021 04:45	48,2	43,4	53,1
20.03.2021 05:45	50,6	44,9	54,3	21.03.2021 05:45	50,9	46,1	54,9
20.03.2021 06:45	49,7	44,1	53,3	21.03.2021 06:45	51,1	45,5	56,6
20.03.2021 07:45	57,8	50,1	61,8	21.03.2021 07:45	47,7	42,8	51,4
20.03.2021 08:45	57,3	51,3	61,3	21.03.2021 08:45	47,9	43,3	51,8
20.03.2021 09:45	56,1	50,0	59,4	21.03.2021 09:45	51,5	45,8	57,2
20.03.2021 10:45	59,9	53,3	63,6	21.03.2021 10:45	49,8	45,5	54,5
20.03.2021 11:45	53,1	48,1	57,1	21.03.2021 11:45	52,6	47,6	56,6
20.03.2021 12:45	64,9	57,8	68,2	21.03.2021 12:45	51,1	47,2	55,2
20.03.2021 13:45	58,6	52,5	62,2	21.03.2021 13:45	51,9	47,1	56,1



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Hastane	Measurement No.	Point 16
Standard	ISO 1996-2	Measurement Date	19-21.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	50,8	42,9	45,5	52,6	45,3	46,1
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	49,0	45,3	53,7	45,7		
From raw data extraneous noise events excluded to reach processed data						

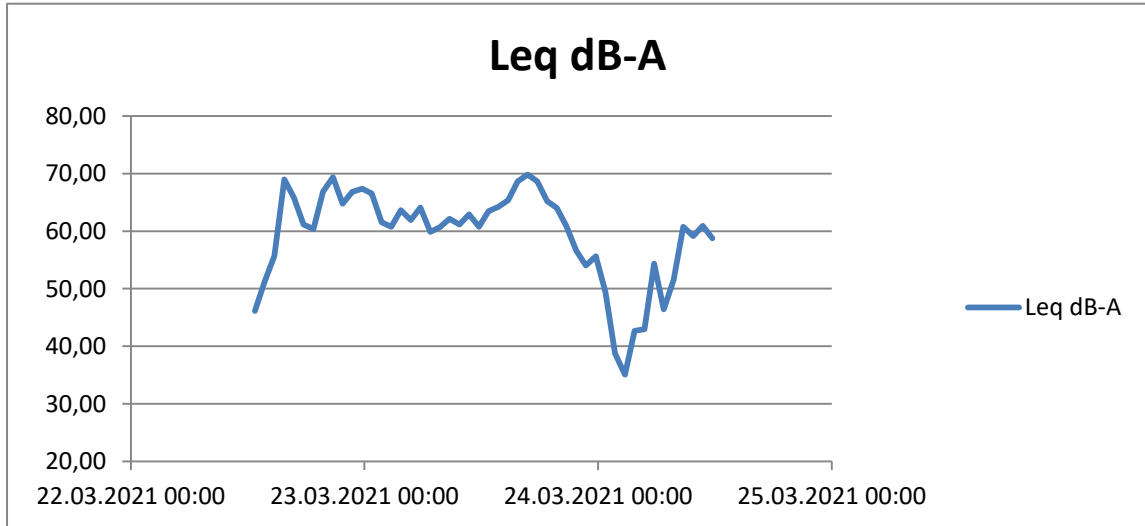
Location	Karaağaç	Measurement No.	Point 17
Standard	ISO 1996-2	Measurement Date	22-24.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	632431.00 d E
SLM No	Convergence			4553295.00 m N
Start Time	22.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location	Karaağaç	Measurement No.	Point 17
Standard	ISO 1996-2	Measurement Date	22-24.03.2021

Hourly Measurement Results (dBA)

Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
22.03.2021 12:45	46,1	43,8	49,2	23.03.2021 12:45	63,5	58,1	67,1
22.03.2021 13:45	51,3	49,9	52,7	23.03.2021 13:45	64,2	58,5	68,0
22.03.2021 14:45	55,7	51,7	59,1	23.03.2021 14:45	65,4	60,0	69,1
22.03.2021 15:45	69,0	64,7	72,7	23.03.2021 15:45	68,6	63,7	72,1
22.03.2021 16:45	65,8	61,5	69,9	23.03.2021 16:45	69,8	65,1	73,4
22.03.2021 17:45	61,1	56,1	64,5	23.03.2021 17:45	68,6	64,0	72,2
22.03.2021 18:45	60,3	55,8	63,8	23.03.2021 18:45	65,2	60,6	68,7
22.03.2021 19:45	66,9	62,3	70,2	23.03.2021 19:45	64,0	59,2	67,7
22.03.2021 20:45	69,4	64,8	72,6	23.03.2021 20:45	60,9	55,9	64,7
22.03.2021 21:45	64,7	60,1	68,2	23.03.2021 21:45	56,6	51,6	60,4
22.03.2021 22:45	66,8	62,0	70,7	23.03.2021 22:45	54,0	49,1	57,8
22.03.2021 23:45	67,3	62,9	70,6	23.03.2021 23:45	55,6	50,7	59,5
23.03.2021 00:45	66,5	62,0	69,9	24.03.2021 00:45	49,4	44,4	53,3
23.03.2021 01:45	61,5	56,8	65,0	24.03.2021 01:45	38,8	36,3	41,5
23.03.2021 02:45	60,8	55,7	64,4	24.03.2021 02:45	35,1	34,3	35,9
23.03.2021 03:45	63,6	58,6	67,2	24.03.2021 03:45	42,7	38,9	46,0
23.03.2021 04:45	61,9	56,8	65,5	24.03.2021 04:45	43,0	39,6	46,1
23.03.2021 05:45	64,1	59,3	67,5	24.03.2021 05:45	54,4	50,3	57,8
23.03.2021 06:45	59,9	54,8	63,4	24.03.2021 06:45	46,4	42,8	49,7
23.03.2021 07:45	60,7	55,4	64,5	24.03.2021 07:45	51,6	47,9	54,7
23.03.2021 08:45	62,2	56,9	65,9	24.03.2021 08:45	60,8	56,8	64,0
23.03.2021 09:45	61,1	55,2	65,1	24.03.2021 09:45	59,1	53,2	63,1
23.03.2021 10:45	62,9	57,3	66,9	24.03.2021 10:45	60,9	55,3	64,9
23.03.2021 11:45	60,8	55,0	64,9	24.03.2021 11:45	58,8	53,0	62,9

Location	Karaağaç	Measurement No.	Point 17
Standard	ISO 1996-2	Measurement Date	22-24.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	54,9	57,2	50,4	55,1	56,8	50,0
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00		22:00-07:00		07:00-22:00	
Leq dBA	55,6		51,1		55,4	
From raw data extraneous noise events excluded to reach processed data						

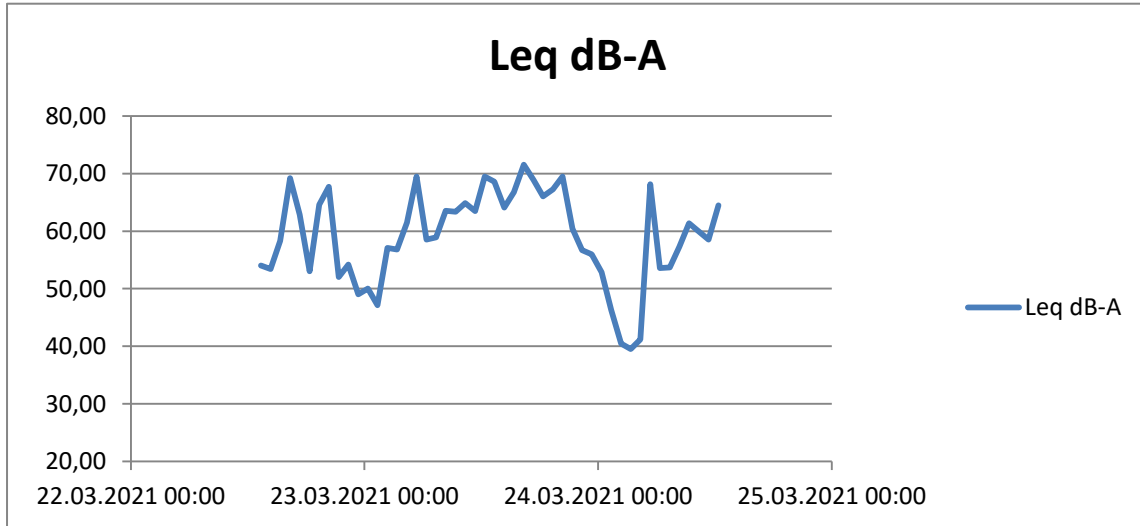
Location	Karaağaç	Measurement No.	Point 18
Standard	ISO 1996-2	Measurement Date	22-24.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	632923.00 d E
SLM No	Convergence			4552644.00 m N
Start Time	22.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location	Karaağaç	Measurement No.	Point 18				
Standard	ISO 1996-2	Measurement Date	22-24.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
22.03.2021 13:21	54,0	51,7	56,7	23.03.2021 13:21	68,6	64,1	72,1
22.03.2021 14:21	53,4	47,5	58,0	23.03.2021 14:21	64,1	58,1	68,4
22.03.2021 15:21	58,3	53,0	62,8	23.03.2021 15:21	66,7	60,9	71,0
22.03.2021 16:21	69,2	65,4	72,3	23.03.2021 16:21	71,5	66,5	75,5
22.03.2021 17:21	62,9	57,6	67,0	23.03.2021 17:21	68,9	62,7	73,3
22.03.2021 18:21	53,0	47,9	57,0	23.03.2021 18:21	66,0	59,7	70,5
22.03.2021 19:21	64,6	60,0	67,8	23.03.2021 19:21	67,3	61,8	71,2
22.03.2021 20:21	67,7	64,3	70,4	23.03.2021 20:21	69,5	65,3	72,8
22.03.2021 21:21	52,0	46,4	56,1	23.03.2021 21:21	60,4	54,7	64,7
22.03.2021 22:21	54,2	49,8	60,2	23.03.2021 22:21	56,7	51,0	61,0
22.03.2021 23:21	49,0	44,4	53,0	23.03.2021 23:21	56,0	50,1	60,3
23.03.2021 00:21	50,1	45,2	54,1	24.03.2021 00:21	52,8	46,9	57,1
23.03.2021 01:21	47,1	41,6	51,6	24.03.2021 01:21	46,3	40,9	50,6
23.03.2021 02:21	57,1	51,2	61,1	24.03.2021 02:21	40,4	35,4	44,8
23.03.2021 03:21	56,8	51,3	60,8	24.03.2021 03:21	39,5	33,3	44,6
23.03.2021 04:21	61,5	56,0	65,3	24.03.2021 04:21	41,2	36,4	45,7
23.03.2021 05:21	69,4	66,2	72,2	24.03.2021 05:21	68,1	65,3	70,6
23.03.2021 06:21	58,5	53,3	62,2	24.03.2021 06:21	53,6	48,3	57,1
23.03.2021 07:21	58,9	53,6	62,6	24.03.2021 07:21	53,7	48,9	57,9
23.03.2021 08:21	63,5	58,2	67,4	24.03.2021 08:21	57,3	51,9	61,1
23.03.2021 09:21	63,4	58,3	67,3	24.03.2021 09:21	61,4	56,7	65,2
23.03.2021 10:21	64,9	59,2	68,8	24.03.2021 10:21	59,9	54,2	63,8
23.03.2021 11:21	63,5	57,9	67,7	24.03.2021 11:21	58,5	52,9	62,7
23.03.2021 12:21	69,5	65,4	72,7	24.03.2021 12:21	64,5	60,4	67,7



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Karaağaç	Measurement No.	Point 18
Standard	ISO 1996-2	Measurement Date	22-24.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	53,6	50,4	46,1	54,2	51,3	50,0
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	52,3	48,0	54,6	52,0		

From raw data extraneous noise events excluded to reach processed data

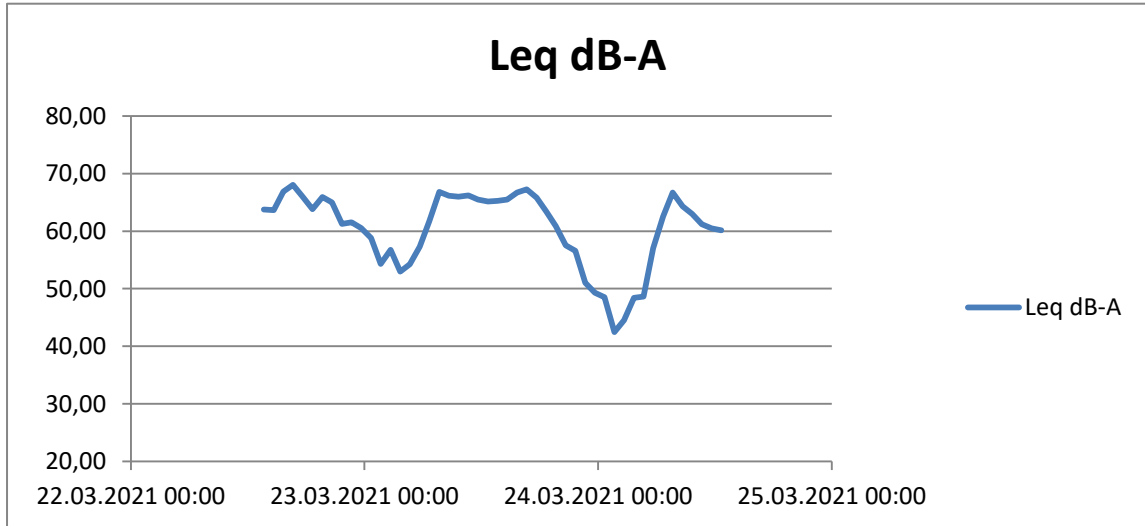
Location	Karaağaç	Measurement No.	Point 19
Standard	ISO 1996-2	Measurement Date	22-24.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	633137.00 d E
SLM No	Convergence			4551892.00 m N
Start Time	22.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	3 meters

Logger Graph (dBA)



Location	Karaağaç	Measurement No.	Point 19				
Standard	ISO 1996-2	Measurement Date	22-24.03.2021				
Hourly Measurement Results (dBA)							
Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
22.03.2021 13:40	63,7	62,5	64,9	23.03.2021 13:40	65,3	63,3	67,3
22.03.2021 14:40	63,7	62,1	65,1	23.03.2021 14:40	65,5	63,7	67,5
22.03.2021 15:40	66,9	65,0	68,8	23.03.2021 15:40	66,7	63,8	69,7
22.03.2021 16:40	68,0	66,2	70,1	23.03.2021 16:40	67,2	63,6	71,3
22.03.2021 17:40	65,9	64,4	67,4	23.03.2021 17:40	65,8	63,8	68,2
22.03.2021 18:40	63,8	61,9	66,1	23.03.2021 18:40	63,4	60,7	66,4
22.03.2021 19:40	65,9	61,4	70,1	23.03.2021 19:40	60,9	57,4	64,2
22.03.2021 20:40	65,0	60,8	68,8	23.03.2021 20:40	57,5	54,4	60,8
22.03.2021 21:40	61,2	58,3	64,3	23.03.2021 21:40	56,6	52,6	60,6
22.03.2021 22:40	61,5	58,6	64,3	23.03.2021 22:40	51,0	49,0	53,3
22.03.2021 23:40	60,5	57,3	63,3	23.03.2021 23:40	49,3	46,3	52,7
23.03.2021 00:40	58,8	55,8	61,5	24.03.2021 00:40	48,5	46,5	50,5
23.03.2021 01:40	54,3	50,6	57,4	24.03.2021 01:40	42,5	41,3	43,8
23.03.2021 02:40	56,8	48,8	62,4	24.03.2021 02:40	44,5	42,5	47,1
23.03.2021 03:40	53,0	48,2	56,6	24.03.2021 03:40	48,4	47,1	49,6
23.03.2021 04:40	54,3	49,8	57,8	24.03.2021 04:40	48,6	47,3	50,3
23.03.2021 05:40	57,3	53,2	61,2	24.03.2021 05:40	57,0	55,7	58,4
23.03.2021 06:40	61,8	59,8	63,9	24.03.2021 06:40	62,5	61,2	63,8
23.03.2021 07:40	66,8	65,3	68,2	24.03.2021 07:40	66,7	65,3	68,0
23.03.2021 08:40	66,1	64,4	67,8	24.03.2021 08:40	64,3	62,6	65,9
23.03.2021 09:40	66,0	64,0	68,0	24.03.2021 09:40	63,0	61,2	64,8
23.03.2021 10:40	66,2	63,8	68,6	24.03.2021 10:40	61,2	58,8	63,6
23.03.2021 11:40	65,5	63,2	68,0	24.03.2021 11:40	60,5	58,2	63,0
23.03.2021 12:40	65,2	63,0	67,4	24.03.2021 12:40	60,2	58,0	62,4

Location	Karaağaç	Measurement No.	Point 19
Standard	ISO 1996-2	Measurement Date	22-24.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	56,5	55,1	52,4	55,5	55,6	49,9
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	56,4	51,9	55,5	51,3		
From raw data extraneous noise events excluded to reach processed data						

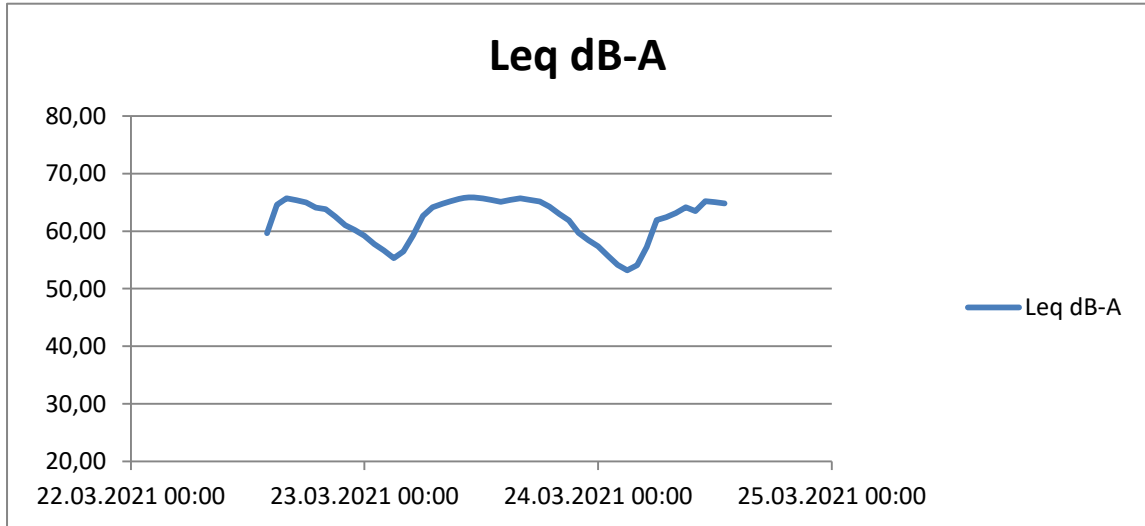
Location	Karaağaç	Measurement No.	Point 20
Standard	ISO 1996-2	Measurement Date	22-24.03.2021



Measurement Info

SLM	Device Type	Type 1	Coordinates	633945.00 d E
SLM No	Convergence			4551262.00 m N
Start Time	22.03.2021		Time Period	Day, Evening, Night
Total Period	48 Hours		Mic. Height (m)	2,5 meters

Logger Graph (dBA)



Location	Karaağaç	Measurement No.	Point 20
Standard	ISO 1996-2	Measurement Date	22-24.03.2021

Hourly Measurement Results (dBA)

Date&Time	Leq	Lmin	Lmax	Date&Time	Leq	Lmin	Lmax
22.03.2021 14:00	59,6	58,8	60,4	23.03.2021 14:00	65,1	64,2	66,0
22.03.2021 15:00	64,6	63,6	65,6	23.03.2021 15:00	65,4	64,6	66,3
22.03.2021 16:00	65,7	64,8	66,7	23.03.2021 16:00	65,7	64,8	66,6
22.03.2021 17:00	65,4	64,6	66,3	23.03.2021 17:00	65,4	64,5	66,3
22.03.2021 18:00	65,0	64,1	65,9	23.03.2021 18:00	65,2	64,2	66,1
22.03.2021 19:00	64,1	63,2	65,1	23.03.2021 19:00	64,3	63,3	65,3
22.03.2021 20:00	63,8	62,8	64,9	23.03.2021 20:00	63,0	61,9	64,1
22.03.2021 21:00	62,5	61,4	63,7	23.03.2021 21:00	61,9	60,8	63,0
22.03.2021 22:00	61,0	59,9	62,2	23.03.2021 22:00	59,7	58,5	61,0
22.03.2021 23:00	60,2	59,0	61,4	23.03.2021 23:00	58,4	57,1	59,8
23.03.2021 00:00	59,2	57,8	60,6	24.03.2021 00:00	57,3	55,9	58,8
23.03.2021 01:00	57,8	56,4	59,2	24.03.2021 01:00	55,7	54,3	57,1
23.03.2021 02:00	56,6	55,1	58,2	24.03.2021 02:00	54,2	52,8	55,5
23.03.2021 03:00	55,3	53,7	56,9	24.03.2021 03:00	53,2	51,9	54,5
23.03.2021 04:00	56,5	55,0	58,0	24.03.2021 04:00	54,1	52,7	55,5
23.03.2021 05:00	59,2	58,0	60,6	24.03.2021 05:00	57,3	56,1	58,5
23.03.2021 06:00	62,6	61,7	63,7	24.03.2021 06:00	61,9	60,9	63,0
23.03.2021 07:00	64,1	63,3	65,0	24.03.2021 07:00	62,4	61,6	63,3
23.03.2021 08:00	64,8	63,9	65,7	24.03.2021 08:00	63,2	62,3	64,1
23.03.2021 09:00	65,3	64,5	66,1	24.03.2021 09:00	64,1	63,3	65,1
23.03.2021 10:00	65,7	64,8	66,6	24.03.2021 10:00	63,5	62,6	64,5
23.03.2021 11:00	65,8	65,0	66,7	24.03.2021 11:00	65,2	64,4	66,1
23.03.2021 12:00	65,7	64,9	66,6	24.03.2021 12:00	65,1	64,2	65,9
23.03.2021 13:00	65,4	64,5	66,4	24.03.2021 13:00	64,8	63,9	65,8



NAKKAS-BASAKSEHİR HIGHWAY PROJECT BACKGROUND
NOİSE MEASUREMENTS

Location	Karaağaç	Measurement No.	Point 20
Standard	ISO 1996-2	Measurement Date	22-24.03.2021

Results Lden						
	First Day Results(dBA)			Second Day Results(dBA)		
	Day	Evening	Night	Day	Evening	Night
Time	07:00-19:00	19:00-23:00	23:00-07:00	07:00-19:00	19:00-23:00	23:00-07:00
Leq dBA	58,6	54,8	45,5	59,5	56,0	48,2
Results Ldn						
	First Day Results(dBA)		Second Day Results(dBA)			
	Day	Night	Day	Night		
Time	07:00-22:00	22:00-07:00	07:00-22:00	22:00-07:00		
Leq dBA	57,3	49,8	60,1	50,1		

From raw data extraneous noise events excluded to reach processed data