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# MEMORANDUM

Date: July 8, 2019

To: Golden Queen

From: Graham Stephens

Cc: John Hecht, P.E.
Scott Cohen, P.E.

Re: Ambient Noise Measurements & Compliance with Conditions of Approval for Noise
Golden Queen Mining Soledad Mountain Mine

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This memo has been prepared by Sespe Consulting, Inc. ("Sespe") to summarize the results of noise monitoring conducted in May 2019 for Golden Queen Mining Company's Soledad Mountain Mine ("Facility"). Based on the results of ambient noise monitoring, ongoing compliance with existing conditions of approval and Kern County ("County") standards related to noise are also reviewed and discussed. Golden Queen is proposing to amend their existing County Conditional Use Permit (CUP) and associated Reclamation Plan to expand the Facility footprint and modify the locations of excavation pits and surge piles used for aggregate storage. Existing ore production throughputs and associated mining/processing equipment will not change. The attached figures show the approximate location of the revised Facility permit boundary.

Prior to ambient noise monitoring, Sespe reviewed Golden Queen's amended Reclamation Plan and associated project description. This noise monitoring event was conducted to reconfirm ambient noise levels in the areas around the Facility, and determine if conditions have changed since the previous Supplemental Environmental Impact Report (SEIR)/associate noise analyses were completed in 2010. In support of the 2010 SEIR, previous noise monitoring was conducted in 1990/1991 and subsequently in 2013. This noise monitoring event was conducted to reassess noise levels in the areas around the Facility, and determine if they have changed since 1990/1991 and/or 2013. The results were also analyzed to determine if the proposed modifications to the Reclamation Plan/CUP would conflict with existing project conditions, County noise standards, or have a significant effect on the noise levels experienced at nearby residential receptors.

## AMBIENT NOISE LEVEL DISCUSSION

### 2019 Noise Monitoring

One (1) 24-hour long-duration and three (3) 1-hour short-duration noise measurements were obtained near the Soledad Mountain Mine on May 22nd through May 24th, 2019. The meters were positioned in various locations around the Facility, specifically to the north and southwest (see Figure 1 attached). The measurements were obtained using two (2) Quest Technologies Soundpro SE/DL sound level meters programmed for A-weighted sound and slow response. The meters were calibrated prior to and following each measurement, and were placed on a tripod approximately 5-feet above ground level. Data was logged in 1-minute increments. A summary of the noise monitoring results, including 1-minute noise data logs for each day of monitoring, is attached to this memo.

During the noise measurements, normal operations and mining/processing activities were occurring at the Facility. According to Golden Queen, the Facility was operating throughout the entire duration of the monitoring event (i.e., 24/7) in accordance with their existing County CUP. As such, the measurements accurately represent the noise levels expected for the ongoing and future full-scale mining and processing operations.

Qualitative observations of the noise environment in the area were made when the meters were set up and again when taken down. In general, wind seemed to be the loudest source of ambient noise in the area (rustling bushes, howling, etc.), followed by occasional traffic on Silver Queen Road. When the mine equipment was operating, especially during periods of light wind, it was generally audible. Noise from the wind farm (many windmills) was barely noticeable when there was little to no wind, and not noticeable at all when there was significant wind.

Table 1 below summarizes the measured ambient data in units of Day-Night ($L_{dn}$) average sound level. $L_{dn}$ is the noise metric used for the previous ambient noise measurements collected at the Facility in 1990/1991 and 2013, and referenced within the 2010 SEIR. Additionally, applicable County noise standards and the Facility's existing conditions of approval related to noise are primarily in terms of $L_{dn}$. As defined in the Noise Element of the Kern County General Plan (2009), the $L_{dn}$ value places additional emphasis on nighttime noise by adding a +10 dBA penalty to noise levels measured between the hours of 10:00 p.m. and 7:00 a.m. In addition to the long-term (24-hour) $L_{dn}$ measurement, three (3) short-term (1-Hour) $L_{eq}$ measurements were also collected. The $L_{eq}$ 1-Hour noise levels are shown for informational purposes only, as they cannot be compared to the 1990/991 and 2013 $L_{dn}$ data or utilized to determine compliance with existing conditions of approval.

**Table 1 – 2019 Measured Noise Levels**

| Monitoring Location | Duration | Date(s) Measured | Measured Noise Level | Noise Units |
|---|---|---|---|---|
| #1 | 24-Hour | 5/23/19 – 5/24/19 | 52.8 | $L_{dn}$ (Day-Night) |
| #2 | 1-Hour | 5/22/19 | 56.4 | $L_{eq}$ 1-Hour |
| #3 | 1-Hour | 5/22/19 | 62.0 | $L_{eq}$ 1-Hour |
| #4 | 1-Hour | 5/24/19 | 44.6 | $L_{eq}$ 1-Hour |

See Figure 1 attached for the monitoring locations.

**1990/1991 and 2013 Noise Monitoring**

Ambient monitoring was previously conducted in 1990/1991 by Air Sciences, Inc. and documented by Hersh Acoustical Engineering, Inc. in the *Preliminary Noise Impact Analysis Report* (January 27, 1997). This data was also referenced and analyzed within the 2010 SEIR. Subsequent ambient noise monitoring was completed by Sespe to reaffirm the findings of the 1990/1991 report and SEIR. For both the 1990/1991 and 2013 monitoring events, the noise meter was placed approximately 120-feet north of Silver Queen Road, north of the Facility in the vicinity of existing residential receptors. As shown in Figure 1 attached, the 2019 measurements were collected in the same general vicinity north of Silver Queen Road. Unlike the previous 1990/1991 and 2013 monitoring events, these new noise measurements were obtained when the mine was fully operational throughout an entire 24-hour day. Because the Facility was fully operational, one can determine the approximate noise levels generated by the current Facility operations by comparing the previous ambient noise levels to the new 2019 measurements.

Table 2 shows the previous ambient noise levels, as documented in the 1990/1991 Hersh Acoustical Engineering report and 2013 Sespe memo, and compares them to the new measurements collected in May 2019.

**Table 2 – Ambient Noise Measurement Comparison**

| Dates Measured | Duration | Site Operating? | Parameter | Measured Noise Level ($L_{dn}$) |
|---|---|---|---|---|
| 1990/1991 | 4-Weeks | No Operations | Monthly Average | 58.5 |
| 2013 | 7-Days | Partially (4 of 7 days) | Weekly Average | 57.5 |
| 2019 | 24-Hours | Yes | Daily Average | 52.8 |

**Ambient Noise Level Comparison & Impact Analysis**

As shown in Table 2 above, the noise environment in the vicinity of the Facility appears unchanged when comparing the ambient noise levels measured over the past decade, with and without Facility operations. Despite Golden Queen's past Facility expansions and increased operations over this time period, the Day-Night ($L_{dn}$) noise level measured in 2019 appears to have decreased compared to past ambient $L_{dn}$ noise levels measured in 1990/1991 and 2013. This indicates that previous expansions of Facility operations have had no appreciable effect on the ambient noise environment around the Facility and at nearby receptors, as other non-Facility sources (e.g., wind, traffic, etc.) represent the dominant noise sources in these areas. Despite the significant Facility expansions during this the 6-year period (i.e., 2013 to present day), noise levels at nearby receptors have not increased.

As described previously, there are no proposed changes to the existing ore production throughputs or associated mining/processing equipment operating onsite. As such, the 2019 measurements accurately capture the noise generated by Facility equipment and processing sources, which will not change as a result of the proposed modifications to the CUP/Reclamation Plan. The measured noise level of 52.8 dBA $L_{dn}$ at nearby receptors is well below the applicable County noise standard of 65 dBA $L_{dn}$, and therefore even slight increases in ambient noise levels resulting from the modified Facility operations are expected be within acceptable County limits. For these reasons, Sespe anticipates the proposed Facility modifications will not be in conflict with existing conditions of approval, County standards, or have a significant effect on the ambient noise levels experienced at nearby residential receptors.

**ADDRESSING CONDITIONS OF APPROVAL FOR NOISE**

Table 3 summarizes the existing 2010 SEIR mitigation measures/conditions of approval related to noise for the Facility.

**Table 3 – Conditions of Approval for Noise**

| Golden Queen – SEIR Condition of Approval | Comments / Progress |
|---|---|
| 61. The project shall comply with the goals and objectives of the Noise Element of the Kern County General Plan. | The noise element of the General Plan states that industrial uses or operations should "*be designed or arranged so that they will not subject residential or other noise sensitive land uses to exterior noise levels in excess of 65 dB $L_{dn}$….*" The Day Night Noise Level ($L_{dn}$) is defined in terms of being "*the same as CNEL except that the evening time period is not considered separately, but instead it is included as part of the daytime period.*" Community Noise Equivalent Level (CNEL) is "*a measure of the cumulative noise exposure in the community, with greater weights applied to evening and nighttime periods.*" |

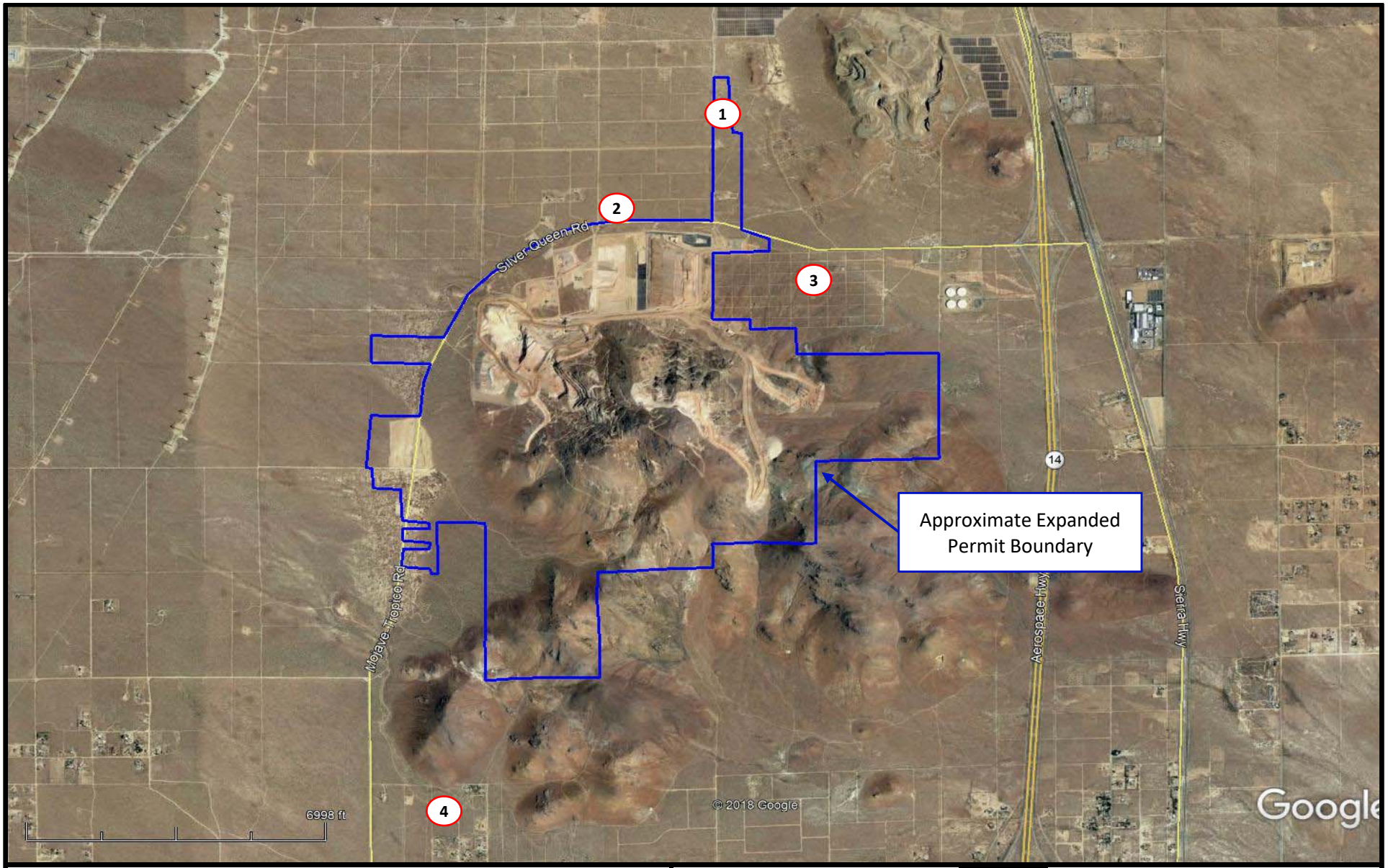
| Golden Queen – SEIR Condition of Approval | Comments / Progress |
|---|---|
| 62. If a single-family residence is constructed on private land which lies within the projected 65 dB contour line as shown in Exhibit 3.9-1 of the Environmental Impact Report, it will be ensured that the noise levels at the residence will remain within the recommendations of the Noise Element of the Kern County General Plan using both of the following methods:<br>(a) Noise levels will be monitored to determine if the noise levels are above the recommended limits.<br>(b) If noise levels are above the recommended limits, measures will be taken to reduce the noise level to acceptable levels.<br><br>The measures may include, but are not limited to, the construction of berms using overburden material to shield the noise and will include reduction of work in the area of the residence during the hours of 10:00 p.m. to 7:00 a.m. | Figure 2 showing the approximate 65 dBA $L_{dn}$ noise contour is attached. The contour is the result of modeling the equipment list in Table 2 of the *Preliminary Noise Impact Analysis Report* (Hersh Acoustical Engineering, 1/27/97). Per this condition, if needed monitoring would be performed at the start of residential construction and continue while the mine is in production. |

Condition #61 is a performance standard and does not state that monitoring or reporting of monitored data is required. Thus, no action is necessary unless or until a noise complaint is filed. Should that happen, then the County would likely want to evaluate noise levels in the area. To Sespe's knowledge, no noise complaints have been filed with the County since the 2010 SEIR was approved and associate noise monitoring completed. Additionally, as shown in the attached noise monitoring summary and discussed above, the 24-hour $L_{dn}$ and CNEL noise levels measured at Location #1 adjacent to nearby sensitive receptors was 52.8 and 51.7 dBA's respectively. These measure noise levels are well below the referenced 65 dBA County limit, which indicates the Facility is in compliance with this condition.

Condition #62 is triggered only if a residence is built within the 65 dB $L_{dn}$ contour that was presented in the 1997 EIR and again in the 2010 SEIR. The approximate 65 dB $L_{dn}$ contour is shown on the current aerial in Figure 2. As shown, the area near existing Residence #5 is the only area where a new residence could be feasibly built outside the approved Facility boundary and also be located within the 65 dB contour. Review of the aerial shows that no such residence has been built here. Thus, no action is necessary at this time except to monitor the area near Residence #5 for future construction of a single-family residence. Additionally, since 2013 the properties in this location have been purchased by Golden Queen. As such, Golden Queen is unlikely to construct new residences in this area and/or the 65 dBA contour with the potential violate Condition #62.

**ATTACHMENTS**

- Figures
- Summary of Noise Measurement Data
- Daily Noise Meter Logs




Source: Google Earth 2019

**Monitoring Locations**

#1 - 24-Hours (5/23/19 - 5/24/19)
#2 - 1-Hour (5/22/19)
#3 - 1-Hour (5/22/19)
#4 - 1-Hour (5/23/19)

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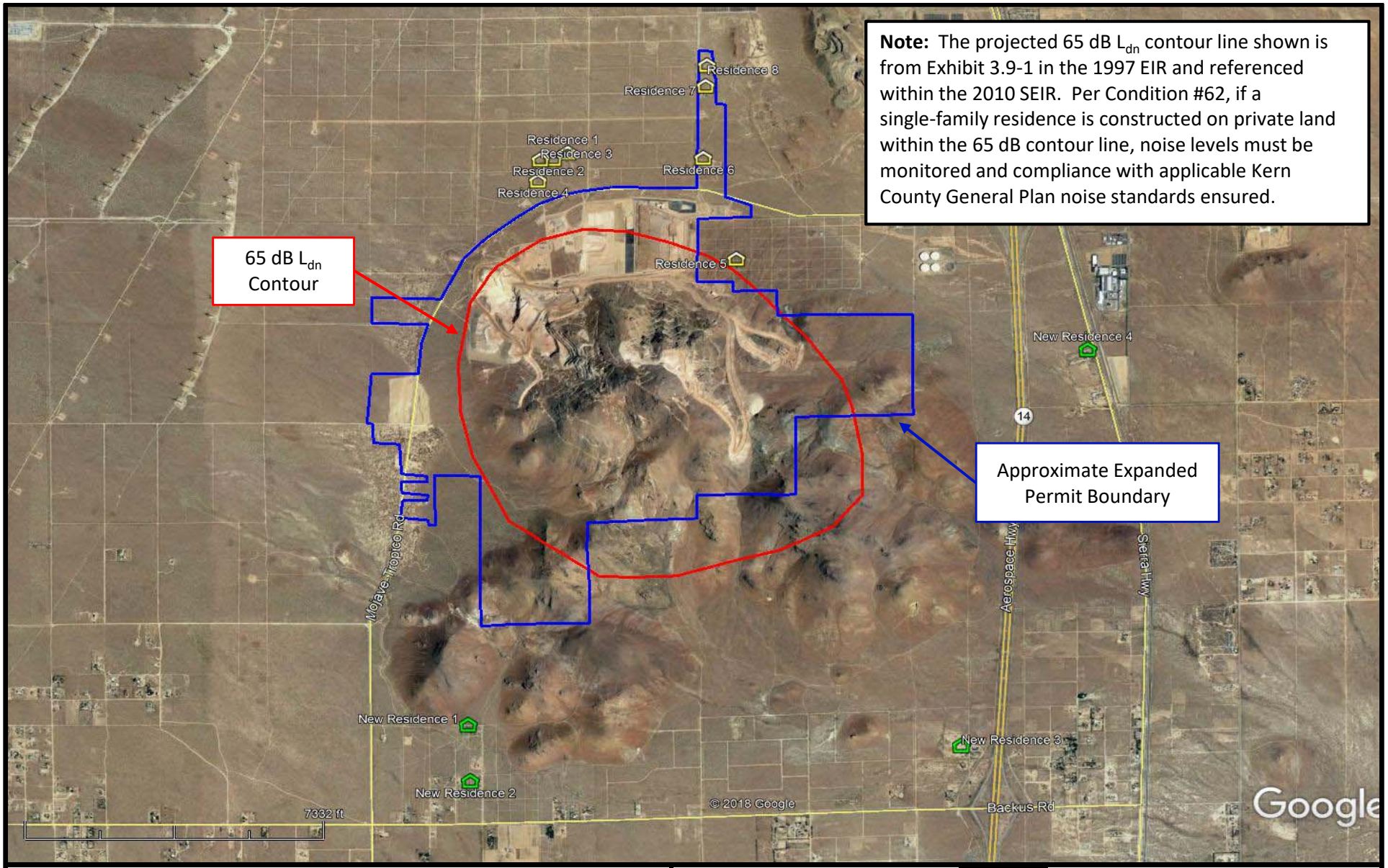
| FIGURE 1 | 2019 NOISE MONITORING LOCATIONS<br>Golden Queen Mining Company<br>Soledad Mountain Mine<br>Kern County, California | | |
|---|---|---|---|
| PROJECT #: | GO01.19.07 | DATE: | 6/9/19 |
| SCALE: | Shown Above | DRAWN BY: | GPS |




Source: Google Earth 2019

Receptors that were assessed in 1990/1991 and 2013 are represented by the yellow house shaped icons. New receptors not previously assessed are represented by the green house shaped icons.

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| FIGURE 2 | 65 dB $L_{dn}$ CONTOUR LINE (1997 EIR)<br>Golden Queen Mining Company<br>Soledad Mountain Mine<br>Kern County, California | | |
|---|---|---|---|
| PROJECT #: | GO01.19.07 | DATE: | 6/9/19 |
| SCALE: | Shown Above | DRAWN BY: | GPS |

# Ambient Noise Summary

1990/1991 and 2013 vs. 2019



| 1990-1991 Noise Monitoring | | | |
|---|---|---|---|
| Date | Day-Night ($L_{dn}$) | | |
| | Month Avg. | Day Max | Day Min |
| Jun-90 | 61.9 | 71.0 | 50.0 |
| Sep-90 | 55.4 | 63.0 | 47.0 |
| Dec-90 | 54.9 | 63.0 | 48.0 |
| Mar-91 | 59.7 | 69.0 | 52.0 |
| **Total:** | **58.5** | **67.5** | **48.9** |

| 2013 Noise Monitoring | | |
|---|---|---|
| Date | Site Operating? | Day-Night ($L_{dn}$) |
| 9/30/13 & 10/7/13 | Yes | 57.7 |
| 10/1/2013 | Yes | 61.1 |
| 10/2/2013 | Yes | 60.6 |
| 10/3/2013 | Yes | 68.8 |
| 10/4/2013 | No | 53.5 |
| 10/5/2013 | No | 49.7 |
| 10/6/2013 | No | 44.8 |
| Overall Avg. | Yes | **57.5** |
| Weekday Average w/ Operations | Yes | **60.0** |
| Weekday Average w/o Operations | No | **53.5** |
| Weekend Average w/o Operations | No | **47.9** |

| 2019 Noise Monitoring | | | | | | | |
|---|---|---|---|---|---|---|---|
| Monitoring Location | Dates Measured | | Duration | Time Measured | | Measured Noise Level | Noise Units |
| | Start | Stop | | Start | Stop | | |
| Location #1 | 5/23/2019 | 5/24/2019 | 24-Hour | 11:14:15 AM | 11:14:15 AM | 52.8 | $L_{dn}$ (Day-Night) |
| Location #2 | 5/23/2019 | 5/23/2019 | 1-Hour | 3:08:43 PM | 4:08:43 PM | 56.4 | $L_{eq}$ 1-Hour |
| Location #3 | 5/23/2019 | 5/23/2019 | 1-Hour | 4:16:52 PM | 5:16:52 PM | 62.0 | $L_{eq}$ 1-Hour |
| Location #4 | 5/25/2019 | 5/25/2019 | 1-Hour | 10:23:25 AM | 11:23:25 AM | 44.6 | $L_{eq}$ 1-Hour |

| Ambient Noise Measurement Comparison | | | | | |
|---|---|---|---|---|---|
| Dates Measured | Duration | Site Operating? | Parameter | Measured Noise | Units (dBA) |
| 1990/1991 | 4-Weeks | No Operations | Monthly Average | 58.5 | Day-Night ($L_{dn}$) |
| 2013 | 7-Days | Partial Operations (4 of 7 days) | Weekly Average | 57.5 | Day-Night ($L_{dn}$) |
| 2019 | 24-Hours | Yes | Daily Average | 52.8 | Day-Night ($L_{dn}$) |

# Ambient Noise Summary

Long-Duration (24-Hour) Measurement



| | | | |
|---|---|---|---|
| Serial Number | BIJ090010 | UNIT REV | R13B |
| Start Time | 11:14:15 23-May-2019 | | |
| Run Length | 24:00:00 5529600 | | |

| Microphone Information | | |
|---|---|---|
| Description | Units | Value |
| Sensitivity | dB | 29 |
| Polarization | Volts | 0 |
| Meter Range | dB | 120 |
| Max Level | dB | 140 |
| Meas. Floor | dB | -20 |

| Calibration Information | | | |
|---|---|---|---|
| Description | | Units | Value |
| Pre-Cal | Level | dB | 114 |
| | Date | | 11:08:18 23-May-2019 |
| Post-Cal | Level | dB | 114.1 |
| | Date | | 11:37:29 24-May-2019 |
| ReCert | Date | | Unavailable |

| Configuration Information | | | |
|---|---|---|---|
| Description | Units | Meter 1 | Meter 2 |
| Integration Threshold | dB | OFF | OFF |
| Exchange Rate | dB | 3 | 3 |
| Criterion Level | dB | 80 | 80 |
| Upper Limit Level | dB | 140 | 140 |
| Projected Time | Hrs | 24 | 24 |
| Weighting | | A | A |
| Time Response | | SLOW | SLOW |

| Measurement | Units | Meter 1 Broadband | Meter 2 Broadband |
|---|---|---|---|
| Lavg | dB | 49.6 | 49.6 |
| Lmax | dB | 75.5 | 75.4 |
| Lmin | dB | 31.9 | 32.1 |
| Lpk | dB | 97.5 | 97.5 |
| TWA | dB | 54.4 | 54.4 |
| PTWA | dB | 54.4 | 54.4 |
| DOSE | % | 0.28 | 0.27 |
| PDOSE | % | 0.28 | 0.27 |
| SEL | dB | 99 | 99 |
| EXP | p2s | 3 | 3 |

# Ambient Noise Summary

Long-Duration (24-Hour) Measurement



| Measurement | Units | Value |
|---|---|---|
| LDN | dB | 52 |
| CNEL | dB | 51.7 |
| TAKTMAX (5sec) | dB | N/A |
| LC-A | dB | N/A |

| Exceedence | Units | Value |
|---|---|---|
| L01 | dB | 60.7 |
| L08 | dB | 53.9 |
| L25 | dB | 47.3 |
| L50 | dB | 42.3 |

| | | Meter 1 | | | Meter 2 | | |
|---|---|---|---|---|---|---|---|
| | | Count | Percent | Time | Count | Percent | Time |
| Overload | (OL) | 0 | 0 | 00:00:00 | 0 | 0 | 00:00:00 |
| Under-Range | (UR) | 76443 | 1.38 | 00:19:54 | 74862 | 1.35 | 00:19:29 |
| Upper Limit | (UL) | 0 | 0 | 00:00:00 | 0 | 0 | 00:00:00 |

Exceedence Table

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 75.5 | 60.7 | 58.9 | 57.6 | 56.7 | 55.8 | 55.1 | 54.4 | 53.9 | 53.3 |
| 10 | 52.8 | 52.3 | 51.9 | 51.4 | 51 | 50.6 | 50.3 | 49.9 | 49.5 | 49.1 |
| 20 | 48.8 | 48.5 | 48.1 | 47.8 | 47.6 | 47.3 | 47 | 46.7 | 46.4 | 46.2 |
| 30 | 45.9 | 45.7 | 45.5 | 45.3 | 45.1 | 44.9 | 44.7 | 44.5 | 44.4 | 44.2 |
| 40 | 44 | 43.8 | 43.6 | 43.4 | 43.3 | 43.1 | 42.9 | 42.8 | 42.6 | 42.5 |
| 50 | 42.3 | 42.2 | 42 | 41.9 | 41.8 | 41.7 | 41.6 | 41.4 | 41.3 | 41.2 |
| 60 | 41.1 | 40.9 | 40.8 | 40.7 | 40.5 | 40.4 | 40.3 | 40.1 | 40 | 39.9 |
| 70 | 39.8 | 39.6 | 39.5 | 39.4 | 39.3 | 39.1 | 39 | 38.9 | 38.8 | 38.7 |
| 80 | 38.5 | 38.4 | 38.3 | 38.1 | 38 | 37.9 | 37.7 | 37.6 | 37.4 | 37.3 |
| 90 | 37.1 | 37 | 36.8 | 36.6 | 36.4 | 36.1 | 35.9 | 35.6 | 35.2 | 34.6 |

Statistics Table

| | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 31 | | | | | | | | | | 0 |
| 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 33 | 0.02 | 0.01 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Start | 11:14:15 AM 5/23/2019 | | |
| | | | | | | | Stop | 11:14:15 AM 5/24/2019 | | |
| | | | | | | | **Day-Night ($L_{dn}$):** | 52.8 **dBA** | | |
| **Study #1** | 0:01:00 | 0:01:00 | | 56.4 | 68 | 42.5 | | 11:15:15 AM | 56.4 | 436515.8322 |
| (24-Hours) | 0:02:00 | 0:02:00 | | 53.8 | 63.4 | 46.4 | | 11:16:15 AM | 53.8 | 239883.2919 |
| | 0:03:00 | 0:03:00 | | 49.5 | 55.6 | 42.8 | | 11:17:15 AM | 49.5 | 89125.09381 |
| | 0:04:00 | 0:04:00 | | 57.9 | 68.6 | 45.5 | | 11:18:15 AM | 57.9 | 616595.0019 |
| | 0:05:00 | 0:05:00 | | 49.1 | 58.8 | 40.2 | | 11:19:15 AM | 49.1 | 81283.05162 |
| | 0:06:00 | 0:06:00 | | 46.1 | 53.2 | 38.4 | | 11:20:15 AM | 46.1 | 40738.02778 |
| | 0:07:00 | 0:07:00 | | 49.6 | 57.6 | 39.6 | | 11:21:15 AM | 49.6 | 91201.08394 |
| | 0:08:00 | 0:08:00 | | 46 | 54 | 39.4 | | 11:22:15 AM | 46 | 39810.71706 |
| | 0:09:00 | 0:09:00 | | 49.1 | 54.6 | 42.4 | | 11:23:15 AM | 49.1 | 81283.05162 |
| | 0:10:00 | 0:10:00 | | 48.6 | 56.1 | 42.4 | | 11:24:15 AM | 48.6 | 72443.59601 |
| | 0:11:00 | 0:11:00 | | 48.6 | 53.4 | 42.2 | | 11:25:15 AM | 48.6 | 72443.59601 |
| | 0:12:00 | 0:12:00 | | 48 | 53.3 | 41.7 | | 11:26:15 AM | 48 | 63095.73445 |
| | 0:13:00 | 0:13:00 | | 45.6 | 51.8 | 39.5 | | 11:27:15 AM | 45.6 | 36307.80548 |
| | 0:14:00 | 0:14:00 | | 44.9 | 50.2 | 40 | | 11:28:15 AM | 44.9 | 30902.95433 |
| | 0:15:00 | 0:15:00 | | 45.4 | 53 | 38.2 | | 11:29:15 AM | 45.4 | 34673.68505 |
| | 0:16:00 | 0:16:00 | | 46.3 | 54.1 | 40.2 | | 11:30:15 AM | 46.3 | 42657.95188 |
| | 0:17:00 | 0:17:00 | | 47.8 | 57 | 40 | | 11:31:15 AM | 47.8 | 60255.95861 |
| | 0:18:00 | 0:18:00 | | 46.2 | 50.8 | 40.4 | | 11:32:15 AM | 46.2 | 41686.93835 |
| | 0:19:00 | 0:19:00 | | 44.9 | 53.5 | 39.6 | | 11:33:15 AM | 44.9 | 30902.95433 |
| | 0:20:00 | 0:20:00 | | 48.8 | 53.1 | 39.9 | | 11:34:15 AM | 48.8 | 75857.7575 |
| | 0:21:00 | 0:21:00 | | 46.6 | 57.6 | 40.7 | | 11:35:15 AM | 46.6 | 45708.81896 |
| | 0:22:00 | 0:22:00 | | 47.7 | 56 | 38.9 | | 11:36:15 AM | 47.7 | 58884.36554 |
| | 0:23:00 | 0:23:00 | | 48.5 | 54.5 | 41.1 | | 11:37:15 AM | 48.5 | 70794.57844 |
| | 0:24:00 | 0:24:00 | | 49 | 56.6 | 41.2 | | 11:38:15 AM | 49 | 79432.82347 |
| | 0:25:00 | 0:25:00 | | 47.7 | 55.1 | 41.2 | | 11:39:15 AM | 47.7 | 58884.36554 |
| | 0:26:00 | 0:26:00 | | 47.1 | 55.8 | 41.3 | | 11:40:15 AM | 47.1 | 51286.1384 |
| | 0:27:00 | 0:27:00 | | 52.2 | 57.4 | 45.1 | | 11:41:15 AM | 52.2 | 165958.6907 |
| | 0:28:00 | 0:28:00 | | 48.6 | 56 | 41.6 | | 11:42:15 AM | 48.6 | 72443.59601 |
| | 0:29:00 | 0:29:00 | | 48 | 55.3 | 41.1 | | 11:43:15 AM | 48 | 63095.73445 |
| | 0:30:00 | 0:30:00 | | 49.4 | 54.3 | 42 | | 11:44:15 AM | 49.4 | 87096.359 |
| | 0:31:00 | 0:31:00 | | 45.6 | 50 | 40.9 | | 11:45:15 AM | 45.6 | 36307.80548 |
| | 0:32:00 | 0:32:00 | | 44.9 | 51.2 | 40.3 | | 11:46:15 AM | 44.9 | 30902.95433 |
| | 0:33:00 | 0:33:00 | | 51 | 55.9 | 41.9 | | 11:47:15 AM | 51 | 125892.5412 |
| | 0:34:00 | 0:34:00 | | 51.3 | 57.3 | 43.7 | | 11:48:15 AM | 51.3 | 134896.2883 |
| | 0:35:00 | 0:35:00 | | 49.1 | 56.1 | 42.3 | | 11:49:15 AM | 49.1 | 81283.05162 |
| | 0:36:00 | 0:36:00 | | 43.4 | 53.4 | 39.8 | | 11:50:15 AM | 43.4 | 21877.61624 |
| | 0:37:00 | 0:37:00 | | 46.1 | 54.3 | 39.9 | | 11:51:15 AM | 46.1 | 40738.02778 |
| | 0:38:00 | 0:38:00 | | 48.7 | 55.6 | 42.9 | | 11:52:15 AM | 48.7 | 74131.02413 |
| | 0:39:00 | 0:39:00 | | 48.9 | 55.7 | 40.3 | | 11:53:15 AM | 48.9 | 77624.71166 |
| | 0:40:00 | 0:40:00 | | 47.2 | 54.5 | 40.2 | | 11:54:15 AM | 47.2 | 52480.74602 |
| | 0:41:00 | 0:41:00 | | 47.8 | 53.6 | 41 | | 11:55:15 AM | 47.8 | 60255.95861 |
| | 0:42:00 | 0:42:00 | | 51.4 | 56.1 | 46.2 | | 11:56:15 AM | 51.4 | 138038.4265 |
| | 0:43:00 | 0:43:00 | | 48.8 | 55.4 | 42.1 | | 11:57:15 AM | 48.8 | 75857.7575 |
| | 0:44:00 | 0:44:00 | | 42.3 | 49.6 | 38.9 | | 11:58:15 AM | 42.3 | 16982.43652 |
| | 0:45:00 | 0:45:00 | | 47.9 | 54.6 | 39.7 | | 11:59:15 AM | 47.9 | 61659.50019 |
| | 0:46:00 | 0:46:00 | | 46.4 | 53.3 | 39.3 | | 12:00:15 PM | 46.4 | 43651.58322 |
| | 0:47:00 | 0:47:00 | | 46.9 | 55.8 | 40.1 | | 12:01:15 PM | 46.9 | 48977.88194 |
| | 0:48:00 | 0:48:00 | | 42.8 | 49.4 | 39.2 | | 12:02:15 PM | 42.8 | 19054.60718 |
| | 0:49:00 | 0:49:00 | | 46.1 | 52.9 | 39.2 | | 12:03:15 PM | 46.1 | 40738.02778 |
| | 0:50:00 | 0:50:00 | | 44.6 | 49.4 | 40.9 | | 12:04:15 PM | 44.6 | 28840.31503 |
| | 0:51:00 | 0:51:00 | | 47 | 52.4 | 41.1 | | 12:05:15 PM | 47 | 50118.72336 |
| | 0:52:00 | 0:52:00 | | 43.7 | 46.6 | 39 | | 12:06:15 PM | 43.7 | 23442.28815 |
| | 0:53:00 | 0:53:00 | | 40.4 | 42.2 | 38.8 | | 12:07:15 PM | 40.4 | 10964.78196 |
| | 0:54:00 | 0:54:00 | | 41.2 | 47.4 | 38.1 | | 12:08:15 PM | 41.2 | 13182.56739 |
| | 0:55:00 | 0:55:00 | | 42.9 | 49.2 | 37.6 | | 12:09:15 PM | 42.9 | 19498.446 |
| | 0:56:00 | 0:56:00 | | 40.9 | 47 | 37.7 | | 12:10:15 PM | 40.9 | 12302.68771 |
| | 0:57:00 | 0:57:00 | | 48.3 | 53.4 | 40.7 | | 12:11:15 PM | 48.3 | 67608.29754 |
| | 0:58:00 | 0:58:00 | | 46.7 | 52.8 | 42 | | 12:12:15 PM | 46.7 | 46773.51413 |
| | 0:59:00 | 0:59:00 | | 47.6 | 54 | 40.8 | | 12:13:15 PM | 47.6 | 57543.99373 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 1:00:00 | 1:00:00 | | 50.9 | 55.5 | 43 | 12:14:15 PM | 50.9 | 123026.8771 |
| | 1:01:00 | 1:01:00 | | 55.1 | 60.4 | 49.4 | 12:15:15 PM | 55.1 | 323593.6569 |
| | 1:02:00 | 1:02:00 | | 49.5 | 54.9 | 42.9 | 12:16:15 PM | 49.5 | 89125.09381 |
| | 1:03:00 | 1:03:00 | | 48.6 | 58.7 | 40.5 | 12:17:15 PM | 48.6 | 72443.59601 |
| | 1:04:00 | 1:04:00 | | 47 | 56.7 | 40.2 | 12:18:15 PM | 47 | 50118.72336 |
| | 1:05:00 | 1:05:00 | | 54.3 | 64.5 | 40 | 12:19:15 PM | 54.3 | 269153.4804 |
| | 1:06:00 | 1:06:00 | | 50.1 | 55.6 | 41.9 | 12:20:15 PM | 50.1 | 102329.2992 |
| | 1:07:00 | 1:07:00 | | 51.3 | 60.2 | 41.3 | 12:21:15 PM | 51.3 | 134896.2883 |
| | 1:08:00 | 1:08:00 | | 48.3 | 51.5 | 45.1 | 12:22:15 PM | 48.3 | 67608.29754 |
| | 1:09:00 | 1:09:00 | | 49.7 | 54.3 | 42.5 | 12:23:15 PM | 49.7 | 93325.43008 |
| | 1:10:00 | 1:10:00 | | 52.2 | 59.8 | 42.9 | 12:24:15 PM | 52.2 | 165958.6907 |
| | 1:11:00 | 1:11:00 | | 49.9 | 58.2 | 41.2 | 12:25:15 PM | 49.9 | 97723.7221 |
| | 1:12:00 | 1:12:00 | | 53.7 | 64.9 | 41.2 | 12:26:15 PM | 53.7 | 234422.8815 |
| | 1:13:00 | 1:13:00 | | 52.8 | 61.8 | 40.9 | 12:27:15 PM | 52.8 | 190546.0718 |
| | 1:14:00 | 1:14:00 | | 53.1 | 59.6 | 44 | 12:28:15 PM | 53.1 | 204173.7945 |
| | 1:15:00 | 1:15:00 | | 51.1 | 57.8 | 42.2 | 12:29:15 PM | 51.1 | 128824.9552 |
| | 1:16:00 | 1:16:00 | | 47.8 | 53.2 | 41.9 | 12:30:15 PM | 47.8 | 60255.95861 |
| | 1:17:00 | 1:17:00 | | 48.9 | 56.1 | 38.8 | 12:31:15 PM | 48.9 | 77624.71166 |
| | 1:18:00 | 1:18:00 | | 49.5 | 58.9 | 39 | 12:32:15 PM | 49.5 | 89125.09381 |
| | 1:19:00 | 1:19:00 | | 48.4 | 55 | 40.9 | 12:33:15 PM | 48.4 | 69183.09709 |
| | 1:20:00 | 1:20:00 | | 48.1 | 55.7 | 40 | 12:34:15 PM | 48.1 | 64565.4229 |
| | 1:21:00 | 1:21:00 | | 49.1 | 58.3 | 40.2 | 12:35:15 PM | 49.1 | 81283.05162 |
| | 1:22:00 | 1:22:00 | | 47 | 54.7 | 40 | 12:36:15 PM | 47 | 50118.72336 |
| | 1:23:00 | 1:23:00 | | 50.1 | 57.9 | 42.5 | 12:37:15 PM | 50.1 | 102329.2992 |
| | 1:24:00 | 1:24:00 | | 48.2 | 53.8 | 42.1 | 12:38:15 PM | 48.2 | 66069.3448 |
| | 1:25:00 | 1:25:00 | | 49.4 | 54.5 | 43.5 | 12:39:15 PM | 49.4 | 87096.359 |
| | 1:26:00 | 1:26:00 | | 46.2 | 52.5 | 41.3 | 12:40:15 PM | 46.2 | 41686.93835 |
| | 1:27:00 | 1:27:00 | | 48.4 | 54.2 | 41.2 | 12:41:15 PM | 48.4 | 69183.09709 |
| | 1:28:00 | 1:28:00 | | 54 | 62.6 | 45.3 | 12:42:15 PM | 54 | 251188.6432 |
| | 1:29:00 | 1:29:00 | | 59.8 | 66.1 | 45 | 12:43:15 PM | 59.8 | 954992.586 |
| | 1:30:00 | 1:30:00 | | 50.9 | 59.3 | 43.1 | 12:44:15 PM | 50.9 | 123026.8771 |
| | 1:31:00 | 1:31:00 | | 48.7 | 55.2 | 43.3 | 12:45:15 PM | 48.7 | 74131.02413 |
| | 1:32:00 | 1:32:00 | | 46.7 | 55.1 | 41.6 | 12:46:15 PM | 46.7 | 46773.51413 |
| | 1:33:00 | 1:33:00 | | 45.3 | 51.5 | 41 | 12:47:15 PM | 45.3 | 33884.41561 |
| | 1:34:00 | 1:34:00 | | 46.8 | 54.1 | 39.8 | 12:48:15 PM | 46.8 | 47863.00923 |
| | 1:35:00 | 1:35:00 | | 48.7 | 54.6 | 44.6 | 12:49:15 PM | 48.7 | 74131.02413 |
| | 1:36:00 | 1:36:00 | | 49.6 | 59.4 | 40.9 | 12:50:15 PM | 49.6 | 91201.08394 |
| | 1:37:00 | 1:37:00 | | 47.8 | 55.3 | 39.3 | 12:51:15 PM | 47.8 | 60255.95861 |
| | 1:38:00 | 1:38:00 | | 42.3 | 47 | 40 | 12:52:15 PM | 42.3 | 16982.43652 |
| | 1:39:00 | 1:39:00 | | 48.1 | 58.2 | 39.9 | 12:53:15 PM | 48.1 | 64565.4229 |
| | 1:40:00 | 1:40:00 | | 46 | 56.2 | 40 | 12:54:15 PM | 46 | 39810.71706 |
| | 1:41:00 | 1:41:00 | | 49.4 | 54.8 | 42 | 12:55:15 PM | 49.4 | 87096.359 |
| | 1:42:00 | 1:42:00 | | 46.3 | 52.2 | 41.1 | 12:56:15 PM | 46.3 | 42657.95188 |
| | 1:43:00 | 1:43:00 | | 49.3 | 54.4 | 41.8 | 12:57:15 PM | 49.3 | 85113.80382 |
| | 1:44:00 | 1:44:00 | | 51.8 | 60.3 | 42.3 | 12:58:15 PM | 51.8 | 151356.1248 |
| | 1:45:00 | 1:45:00 | | 48.8 | 55 | 40.9 | 12:59:15 PM | 48.8 | 75857.7575 |
| | 1:46:00 | 1:46:00 | | 53.9 | 63.4 | 42.1 | 1:00:15 PM | 53.9 | 245470.8916 |
| | 1:47:00 | 1:47:00 | | 54.4 | 61.5 | 41.9 | 1:01:15 PM | 54.4 | 275422.8703 |
| | 1:48:00 | 1:48:00 | | 45.1 | 51.7 | 40.8 | 1:02:15 PM | 45.1 | 32359.36569 |
| | 1:49:00 | 1:49:00 | | 49.6 | 57.1 | 39.7 | 1:03:15 PM | 49.6 | 91201.08394 |
| | 1:50:00 | 1:50:00 | | 59.7 | 69.1 | 43.9 | 1:04:15 PM | 59.7 | 933254.3008 |
| | 1:51:00 | 1:51:00 | | 51.2 | 58 | 46 | 1:05:15 PM | 51.2 | 131825.6739 |
| | 1:52:00 | 1:52:00 | | 48.1 | 54.4 | 43.6 | 1:06:15 PM | 48.1 | 64565.4229 |
| | 1:53:00 | 1:53:00 | | 48.8 | 55.1 | 44 | 1:07:15 PM | 48.8 | 75857.7575 |
| | 1:54:00 | 1:54:00 | | 46.9 | 55.3 | 42 | 1:08:15 PM | 46.9 | 48977.88194 |
| | 1:55:00 | 1:55:00 | | 48.1 | 58.1 | 41.8 | 1:09:15 PM | 48.1 | 64565.4229 |
| | 1:56:00 | 1:56:00 | | 49.2 | 56.7 | 42.1 | 1:10:15 PM | 49.2 | 83176.37711 |
| | 1:57:00 | 1:57:00 | | 48.6 | 55.9 | 41.5 | 1:11:15 PM | 48.6 | 72443.59601 |
| | 1:58:00 | 1:58:00 | | 49.3 | 57.8 | 41.1 | 1:12:15 PM | 49.3 | 85113.80382 |
| | 1:59:00 | 1:59:00 | | 49 | 60.4 | 42.7 | 1:13:15 PM | 49 | 79432.82347 |
| | 2:00:00 | 2:00:00 | | 46.8 | 53 | 40.7 | 1:14:15 PM | 46.8 | 47863.00923 |
| | 2:01:00 | 2:01:00 | | 47.1 | 58.3 | 40.4 | 1:15:15 PM | 47.1 | 51286.1384 |
| | 2:02:00 | 2:02:00 | | 49.4 | 57.5 | 42.4 | 1:16:15 PM | 49.4 | 87096.359 |
| | 2:03:00 | 2:03:00 | | 49 | 55 | 42.2 | 1:17:15 PM | 49 | 79432.82347 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 2:04:00 | 2:04:00 | | 47.6 | 53.4 | 41.5 | 1:18:15 PM | 47.6 | 57543.99373 |
| | 2:05:00 | 2:05:00 | | 46.3 | 49.9 | 42.3 | 1:19:15 PM | 46.3 | 42657.95188 |
| | 2:06:00 | 2:06:00 | | 51.9 | 62.7 | 42.3 | 1:20:15 PM | 51.9 | 154881.6619 |
| | 2:07:00 | 2:07:00 | | 52.4 | 61.7 | 41.7 | 1:21:15 PM | 52.4 | 173780.0829 |
| | 2:08:00 | 2:08:00 | | 50.2 | 57.2 | 40.2 | 1:22:15 PM | 50.2 | 104712.8548 |
| | 2:09:00 | 2:09:00 | | 46.6 | 54.1 | 42.9 | 1:23:15 PM | 46.6 | 45708.81896 |
| | 2:10:00 | 2:10:00 | | 47.3 | 54.9 | 42.2 | 1:24:15 PM | 47.3 | 53703.17964 |
| | 2:11:00 | 2:11:00 | | 50.2 | 56.2 | 43.2 | 1:25:15 PM | 50.2 | 104712.8548 |
| | 2:12:00 | 2:12:00 | | 50.4 | 58.9 | 42.6 | 1:26:15 PM | 50.4 | 109647.8196 |
| | 2:13:00 | 2:13:00 | | 49.2 | 58.8 | 41.9 | 1:27:15 PM | 49.2 | 83176.37711 |
| | 2:14:00 | 2:14:00 | | 49.5 | 56 | 43.3 | 1:28:15 PM | 49.5 | 89125.09381 |
| | 2:15:00 | 2:15:00 | | 49.8 | 56.9 | 41.7 | 1:29:15 PM | 49.8 | 95499.2586 |
| | 2:16:00 | 2:16:00 | | 51.1 | 56.9 | 43.7 | 1:30:15 PM | 51.1 | 128824.9552 |
| | 2:17:00 | 2:17:00 | | 52.7 | 61.7 | 47.2 | 1:31:15 PM | 52.7 | 186208.7137 |
| | 2:18:00 | 2:18:00 | | 54.4 | 62.8 | 44.3 | 1:32:15 PM | 54.4 | 275422.8703 |
| | 2:19:00 | 2:19:00 | | 55.2 | 64 | 42.7 | 1:33:15 PM | 55.2 | 331131.1215 |
| | 2:20:00 | 2:20:00 | | 55 | 64.9 | 43.5 | 1:34:15 PM | 55 | 316227.766 |
| | 2:21:00 | 2:21:00 | | 51.3 | 57.1 | 42.7 | 1:35:15 PM | 51.3 | 134896.2883 |
| | 2:22:00 | 2:22:00 | | 51.3 | 61.7 | 44.4 | 1:36:15 PM | 51.3 | 134896.2883 |
| | 2:23:00 | 2:23:00 | | 48.7 | 55 | 44.2 | 1:37:15 PM | 48.7 | 74131.02413 |
| | 2:24:00 | 2:24:00 | | 50.4 | 57.5 | 42.6 | 1:38:15 PM | 50.4 | 109647.8196 |
| | 2:25:00 | 2:25:00 | | 45.7 | 52.9 | 40.4 | 1:39:15 PM | 45.7 | 37153.52291 |
| | 2:26:00 | 2:26:00 | | 43.4 | 47 | 40.7 | 1:40:15 PM | 43.4 | 21877.61624 |
| | 2:27:00 | 2:27:00 | | 45.4 | 50.2 | 41.2 | 1:41:15 PM | 45.4 | 34673.68505 |
| | 2:28:00 | 2:28:00 | | 53.8 | 60.1 | 44.2 | 1:42:15 PM | 53.8 | 239883.2919 |
| | 2:29:00 | 2:29:00 | | 56.1 | 64.3 | 44 | 1:43:15 PM | 56.1 | 407380.2778 |
| | 2:30:00 | 2:30:00 | | 53.9 | 63.1 | 43.3 | 1:44:15 PM | 53.9 | 245470.8916 |
| | 2:31:00 | 2:31:00 | | 52.2 | 60.3 | 43.1 | 1:45:15 PM | 52.2 | 165958.6907 |
| | 2:32:00 | 2:32:00 | | 55.5 | 61.4 | 46.5 | 1:46:15 PM | 55.5 | 354813.3892 |
| | 2:33:00 | 2:33:00 | | 49.6 | 56.4 | 45 | 1:47:15 PM | 49.6 | 91201.08394 |
| | 2:34:00 | 2:34:00 | | 51.8 | 58.9 | 44 | 1:48:15 PM | 51.8 | 151356.1248 |
| | 2:35:00 | 2:35:00 | | 52.2 | 61.1 | 44.8 | 1:49:15 PM | 52.2 | 165958.6907 |
| | 2:36:00 | 2:36:00 | | 54.3 | 62 | 45.1 | 1:50:15 PM | 54.3 | 269153.4804 |
| | 2:37:00 | 2:37:00 | | 49.6 | 58 | 43.1 | 1:51:15 PM | 49.6 | 91201.08394 |
| | 2:38:00 | 2:38:00 | | 49.1 | 57.7 | 42.6 | 1:52:15 PM | 49.1 | 81283.05162 |
| | 2:39:00 | 2:39:00 | | 51.3 | 58.2 | 45.3 | 1:53:15 PM | 51.3 | 134896.2883 |
| | 2:40:00 | 2:40:00 | | 55.8 | 62 | 45.8 | 1:54:15 PM | 55.8 | 380189.3963 |
| | 2:41:00 | 2:41:00 | | 55.1 | 63 | 46.2 | 1:55:15 PM | 55.1 | 323593.6569 |
| | 2:42:00 | 2:42:00 | | 53 | 60.3 | 45 | 1:56:15 PM | 53 | 199526.2315 |
| | 2:43:00 | 2:43:00 | | 57.3 | 64.6 | 45.4 | 1:57:15 PM | 57.3 | 537031.7964 |
| | 2:44:00 | 2:44:00 | | 54.9 | 62.7 | 48.7 | 1:58:15 PM | 54.9 | 309029.5433 |
| | 2:45:00 | 2:45:00 | | 56.4 | 63 | 46.5 | 1:59:15 PM | 56.4 | 436515.8322 |
| | 2:46:00 | 2:46:00 | | 55 | 60.9 | 44.9 | 2:00:15 PM | 55 | 316227.766 |
| | 2:47:00 | 2:47:00 | | 51.9 | 59 | 44.1 | 2:01:15 PM | 51.9 | 154881.6619 |
| | 2:48:00 | 2:48:00 | | 51 | 59.3 | 43.5 | 2:02:15 PM | 51 | 125892.5412 |
| | 2:49:00 | 2:49:00 | | 53.3 | 62.4 | 43.9 | 2:03:15 PM | 53.3 | 213796.209 |
| | 2:50:00 | 2:50:00 | | 56.4 | 62.6 | 47.2 | 2:04:15 PM | 56.4 | 436515.8322 |
| | 2:51:00 | 2:51:00 | | 52.7 | 60.9 | 44.3 | 2:05:15 PM | 52.7 | 186208.7137 |
| | 2:52:00 | 2:52:00 | | 57.1 | 65.3 | 43.3 | 2:06:15 PM | 57.1 | 512861.384 |
| | 2:53:00 | 2:53:00 | | 58.5 | 65.9 | 49.4 | 2:07:15 PM | 58.5 | 707945.7844 |
| | 2:54:00 | 2:54:00 | | 58.8 | 69.9 | 47.8 | 2:08:15 PM | 58.8 | 758577.575 |
| | 2:55:00 | 2:55:00 | | 54.6 | 62.5 | 47.5 | 2:09:15 PM | 54.6 | 288403.1503 |
| | 2:56:00 | 2:56:00 | | 58 | 66.2 | 48.7 | 2:10:15 PM | 58 | 630957.3445 |
| | 2:57:00 | 2:57:00 | | 53.4 | 61.8 | 46.6 | 2:11:15 PM | 53.4 | 218776.1624 |
| | 2:58:00 | 2:58:00 | | 56.9 | 65.4 | 49.3 | 2:12:15 PM | 56.9 | 489778.8194 |
| | 2:59:00 | 2:59:00 | | 57.6 | 65.7 | 45.9 | 2:13:15 PM | 57.6 | 575439.9373 |
| | 3:00:00 | 3:00:00 | | 54.4 | 63.1 | 44.9 | 2:14:15 PM | 54.4 | 275422.8703 |
| | 3:01:00 | 3:01:00 | | 56.6 | 62.8 | 47.6 | 2:15:15 PM | 56.6 | 457088.1896 |
| | 3:02:00 | 3:02:00 | | 50.9 | 57.6 | 43.3 | 2:16:15 PM | 50.9 | 123026.8771 |
| | 3:03:00 | 3:03:00 | | 49.2 | 55.9 | 43.7 | 2:17:15 PM | 49.2 | 83176.37711 |
| | 3:04:00 | 3:04:00 | | 52.9 | 61 | 43.5 | 2:18:15 PM | 52.9 | 194984.46 |
| | 3:05:00 | 3:05:00 | | 53.3 | 59.7 | 44.2 | 2:19:15 PM | 53.3 | 213796.209 |
| | 3:06:00 | 3:06:00 | | 52.4 | 58.5 | 44.3 | 2:20:15 PM | 52.4 | 173780.0829 |
| | 3:07:00 | 3:07:00 | | 51.6 | 57.8 | 43.3 | 2:21:15 PM | 51.6 | 144543.9771 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 3:08:00 | 3:08:00 | | 45.5 | 50.7 | 42.5 | 2:22:15 PM | 45.5 | 35481.33892 |
| | 3:09:00 | 3:09:00 | | 48.4 | 56.3 | 42.4 | 2:23:15 PM | 48.4 | 69183.09709 |
| | 3:10:00 | 3:10:00 | | 53.8 | 60.7 | 43 | 2:24:15 PM | 53.8 | 239883.2919 |
| | 3:11:00 | 3:11:00 | | 52.8 | 59.2 | 45.2 | 2:25:15 PM | 52.8 | 190546.0718 |
| | 3:12:00 | 3:12:00 | | 50.4 | 57.2 | 45.1 | 2:26:15 PM | 50.4 | 109647.8196 |
| | 3:13:00 | 3:13:00 | | 50.6 | 58.1 | 43 | 2:27:15 PM | 50.6 | 114815.3621 |
| | 3:14:00 | 3:14:00 | | 56.5 | 64.4 | 46 | 2:28:15 PM | 56.5 | 446683.5922 |
| | 3:15:00 | 3:15:00 | | 49.9 | 56.9 | 44.1 | 2:29:15 PM | 49.9 | 97723.7221 |
| | 3:16:00 | 3:16:00 | | 54.3 | 61.1 | 47.8 | 2:30:15 PM | 54.3 | 269153.4804 |
| | 3:17:00 | 3:17:00 | | 57 | 65.7 | 46.5 | 2:31:15 PM | 57 | 501187.2336 |
| | 3:18:00 | 3:18:00 | | 52 | 58.3 | 43.7 | 2:32:15 PM | 52 | 158489.3192 |
| | 3:19:00 | 3:19:00 | | 51.7 | 59.5 | 43.2 | 2:33:15 PM | 51.7 | 147910.8388 |
| | 3:20:00 | 3:20:00 | | 55.5 | 64.3 | 47 | 2:34:15 PM | 55.5 | 354813.3892 |
| | 3:21:00 | 3:21:00 | | 54.3 | 62.9 | 45.3 | 2:35:15 PM | 54.3 | 269153.4804 |
| | 3:22:00 | 3:22:00 | | 54 | 59.7 | 43.2 | 2:36:15 PM | 54 | 251188.6432 |
| | 3:23:00 | 3:23:00 | | 51.3 | 57 | 43.1 | 2:37:15 PM | 51.3 | 134896.2883 |
| | 3:24:00 | 3:24:00 | | 49.9 | 55.6 | 44.7 | 2:38:15 PM | 49.9 | 97723.7221 |
| | 3:25:00 | 3:25:00 | | 53 | 60.8 | 44.7 | 2:39:15 PM | 53 | 199526.2315 |
| | 3:26:00 | 3:26:00 | | 56.2 | 63.2 | 45.3 | 2:40:15 PM | 56.2 | 416869.3835 |
| | 3:27:00 | 3:27:00 | | 53.6 | 61.9 | 43.1 | 2:41:15 PM | 53.6 | 229086.7653 |
| | 3:28:00 | 3:28:00 | | 57.3 | 65.2 | 48.3 | 2:42:15 PM | 57.3 | 537031.7964 |
| | 3:29:00 | 3:29:00 | | 55 | 64.2 | 45.3 | 2:43:15 PM | 55 | 316227.766 |
| | 3:30:00 | 3:30:00 | | 51.5 | 56.4 | 44.6 | 2:44:15 PM | 51.5 | 141253.7545 |
| | 3:31:00 | 3:31:00 | | 56.3 | 61.5 | 43.9 | 2:45:15 PM | 56.3 | 426579.5188 |
| | 3:32:00 | 3:32:00 | | 59.2 | 72.6 | 44.9 | 2:46:15 PM | 59.2 | 831763.7711 |
| | 3:33:00 | 3:33:00 | | 58 | 66.4 | 46 | 2:47:15 PM | 58 | 630957.3445 |
| | 3:34:00 | 3:34:00 | | 55.5 | 62.3 | 46.4 | 2:48:15 PM | 55.5 | 354813.3892 |
| | 3:35:00 | 3:35:00 | | 55.3 | 63.6 | 44.7 | 2:49:15 PM | 55.3 | 338844.1561 |
| | 3:36:00 | 3:36:00 | | 56.3 | 65.5 | 45.5 | 2:50:15 PM | 56.3 | 426579.5188 |
| | 3:37:00 | 3:37:00 | | 55.1 | 65.2 | 41.2 | 2:51:15 PM | 55.1 | 323593.6569 |
| | 3:38:00 | 3:38:00 | | 47.4 | 52.8 | 41.2 | 2:52:15 PM | 47.4 | 54954.08739 |
| | 3:39:00 | 3:39:00 | | 52.5 | 59.3 | 45.6 | 2:53:15 PM | 52.5 | 177827.941 |
| | 3:40:00 | 3:40:00 | | 56.9 | 64.9 | 46.3 | 2:54:15 PM | 56.9 | 489778.8194 |
| | 3:41:00 | 3:41:00 | | 55.9 | 62 | 47.9 | 2:55:15 PM | 55.9 | 389045.145 |
| | 3:42:00 | 3:42:00 | | 56.8 | 64.8 | 47.4 | 2:56:15 PM | 56.8 | 478630.0923 |
| | 3:43:00 | 3:43:00 | | 57 | 65 | 44.2 | 2:57:15 PM | 57 | 501187.2336 |
| | 3:44:00 | 3:44:00 | | 56 | 62.1 | 46.9 | 2:58:15 PM | 56 | 398107.1706 |
| | 3:45:00 | 3:45:00 | | 55.4 | 64.1 | 44.9 | 2:59:15 PM | 55.4 | 346736.8505 |
| | 3:46:00 | 3:46:00 | | 53.9 | 61.4 | 46 | 3:00:15 PM | 53.9 | 245470.8916 |
| | 3:47:00 | 3:47:00 | | 50.5 | 57.9 | 43.9 | 3:01:15 PM | 50.5 | 112201.8454 |
| | 3:48:00 | 3:48:00 | | 52.8 | 59.8 | 44.2 | 3:02:15 PM | 52.8 | 190546.0718 |
| | 3:49:00 | 3:49:00 | | 55.1 | 61.1 | 45.7 | 3:03:15 PM | 55.1 | 323593.6569 |
| | 3:50:00 | 3:50:00 | | 56.6 | 63.8 | 44.5 | 3:04:15 PM | 56.6 | 457088.1896 |
| | 3:51:00 | 3:51:00 | | 51.2 | 58.1 | 42.7 | 3:05:15 PM | 51.2 | 131825.6739 |
| | 3:52:00 | 3:52:00 | | 55.9 | 63.7 | 45.8 | 3:06:15 PM | 55.9 | 389045.145 |
| | 3:53:00 | 3:53:00 | | 56.4 | 65.2 | 45.3 | 3:07:15 PM | 56.4 | 436515.8322 |
| | 3:54:00 | 3:54:00 | | 55.7 | 64.5 | 44.5 | 3:08:15 PM | 55.7 | 371535.2291 |
| | 3:55:00 | 3:55:00 | | 55.6 | 61.5 | 44.7 | 3:09:15 PM | 55.6 | 363078.0548 |
| | 3:56:00 | 3:56:00 | | 55.6 | 62.3 | 47.5 | 3:10:15 PM | 55.6 | 363078.0548 |
| | 3:57:00 | 3:57:00 | | 56.1 | 61.8 | 50.3 | 3:11:15 PM | 56.1 | 407380.2778 |
| | 3:58:00 | 3:58:00 | | 55.9 | 61 | 47.7 | 3:12:15 PM | 55.9 | 389045.145 |
| | 3:59:00 | 3:59:00 | | 58.6 | 64.8 | 47.6 | 3:13:15 PM | 58.6 | 724435.9601 |
| | 4:00:00 | 4:00:00 | | 54.5 | 61.2 | 45.7 | 3:14:15 PM | 54.5 | 281838.2931 |
| | 4:01:00 | 4:01:00 | | 51.3 | 59.7 | 44.8 | 3:15:15 PM | 51.3 | 134896.2883 |
| | 4:02:00 | 4:02:00 | | 63.6 | 71 | 44.9 | 3:16:15 PM | 63.6 | 2290867.653 |
| | 4:03:00 | 4:03:00 | | 64.5 | 72.3 | 49 | 3:17:15 PM | 64.5 | 2818382.931 |
| | 4:04:00 | 4:04:00 | | 57.7 | 64.2 | 48.4 | 3:18:15 PM | 57.7 | 588843.6554 |
| | 4:05:00 | 4:05:00 | | 56.5 | 65.8 | 46.4 | 3:19:15 PM | 56.5 | 446683.5922 |
| | 4:06:00 | 4:06:00 | | 55.8 | 64.9 | 46.4 | 3:20:15 PM | 55.8 | 380189.3963 |
| | 4:07:00 | 4:07:00 | | 54.1 | 62.2 | 42.9 | 3:21:15 PM | 54.1 | 257039.5783 |
| | 4:08:00 | 4:08:00 | | 56.9 | 63.8 | 46.7 | 3:22:15 PM | 56.9 | 489778.8194 |
| | 4:09:00 | 4:09:00 | | 58.2 | 67.1 | 47.4 | 3:23:15 PM | 58.2 | 660693.448 |
| | 4:10:00 | 4:10:00 | | 56.3 | 62.6 | 47.4 | 3:24:15 PM | 56.3 | 426579.5188 |
| | 4:11:00 | 4:11:00 | | 59 | 67.4 | 48.6 | 3:25:15 PM | 59 | 794328.2347 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 4:12:00 | 4:12:00 | | 56.7 | 65.5 | 44.8 | 3:26:15 PM | 56.7 | 467735.1413 |
| | 4:13:00 | 4:13:00 | | 56 | 63.4 | 45.5 | 3:27:15 PM | 56 | 398107.1706 |
| | 4:14:00 | 4:14:00 | | 61.4 | 67.4 | 51 | 3:28:15 PM | 61.4 | 1380384.265 |
| | 4:15:00 | 4:15:00 | | 55.1 | 63.6 | 45.3 | 3:29:15 PM | 55.1 | 323593.6569 |
| | 4:16:00 | 4:16:00 | | 57.2 | 62.5 | 51.3 | 3:30:15 PM | 57.2 | 524807.4602 |
| | 4:17:00 | 4:17:00 | | 57.4 | 65.2 | 48.4 | 3:31:15 PM | 57.4 | 549540.8739 |
| | 4:18:00 | 4:18:00 | | 56.6 | 64.1 | 46.1 | 3:32:15 PM | 56.6 | 457088.1896 |
| | 4:19:00 | 4:19:00 | | 57.4 | 61.3 | 50.3 | 3:33:15 PM | 57.4 | 549540.8739 |
| | 4:20:00 | 4:20:00 | | 53.2 | 60.6 | 46.9 | 3:34:15 PM | 53.2 | 208929.6131 |
| | 4:21:00 | 4:21:00 | | 60.2 | 69.1 | 46.7 | 3:35:15 PM | 60.2 | 1047128.548 |
| | 4:22:00 | 4:22:00 | | 59 | 66.9 | 45.3 | 3:36:15 PM | 59 | 794328.2347 |
| | 4:23:00 | 4:23:00 | | 56.6 | 63.5 | 48.9 | 3:37:15 PM | 56.6 | 457088.1896 |
| | 4:24:00 | 4:24:00 | | 65 | 72 | 54 | 3:38:15 PM | 65 | 3162277.66 |
| | 4:25:00 | 4:25:00 | | 60.4 | 66.3 | 51.7 | 3:39:15 PM | 60.4 | 1096478.196 |
| | 4:26:00 | 4:26:00 | | 58.9 | 65.8 | 45 | 3:40:15 PM | 58.9 | 776247.1166 |
| | 4:27:00 | 4:27:00 | | 56.4 | 64 | 44.8 | 3:41:15 PM | 56.4 | 436515.8322 |
| | 4:28:00 | 4:28:00 | | 58.1 | 65.8 | 45.6 | 3:42:15 PM | 58.1 | 645654.229 |
| | 4:29:00 | 4:29:00 | | 54.1 | 64.9 | 45.5 | 3:43:15 PM | 54.1 | 257039.5783 |
| | 4:30:00 | 4:30:00 | | 55.4 | 65.1 | 44.6 | 3:44:15 PM | 55.4 | 346736.8505 |
| | 4:31:00 | 4:31:00 | | 54 | 61.9 | 42.7 | 3:45:15 PM | 54 | 251188.6432 |
| | 4:32:00 | 4:32:00 | | 56.6 | 64.1 | 48.8 | 3:46:15 PM | 56.6 | 457088.1896 |
| | 4:33:00 | 4:33:00 | | 57.2 | 63.3 | 47.3 | 3:47:15 PM | 57.2 | 524807.4602 |
| | 4:34:00 | 4:34:00 | | 55.7 | 61.7 | 48.4 | 3:48:15 PM | 55.7 | 371535.2291 |
| | 4:35:00 | 4:35:00 | | 55.5 | 63.9 | 46.3 | 3:49:15 PM | 55.5 | 354813.3892 |
| | 4:36:00 | 4:36:00 | | 58 | 63.3 | 48.3 | 3:50:15 PM | 58 | 630957.3445 |
| | 4:37:00 | 4:37:00 | | 57.2 | 63.6 | 48.4 | 3:51:15 PM | 57.2 | 524807.4602 |
| | 4:38:00 | 4:38:00 | | 58.7 | 64.3 | 50 | 3:52:15 PM | 58.7 | 741310.2413 |
| | 4:39:00 | 4:39:00 | | 56.9 | 64.2 | 44.1 | 3:53:15 PM | 56.9 | 489778.8194 |
| | 4:40:00 | 4:40:00 | | 51 | 58.2 | 43.4 | 3:54:15 PM | 51 | 125892.5412 |
| | 4:41:00 | 4:41:00 | | 55.1 | 64.4 | 45.4 | 3:55:15 PM | 55.1 | 323593.6569 |
| | 4:42:00 | 4:42:00 | | 52.3 | 61.6 | 45.7 | 3:56:15 PM | 52.3 | 169824.3652 |
| | 4:43:00 | 4:43:00 | | 54.6 | 64 | 44.9 | 3:57:15 PM | 54.6 | 288403.1503 |
| | 4:44:00 | 4:44:00 | | 53.9 | 59.9 | 45.7 | 3:58:15 PM | 53.9 | 245470.8916 |
| | 4:45:00 | 4:45:00 | | 56.2 | 64 | 43.9 | 3:59:15 PM | 56.2 | 416869.3835 |
| | 4:46:00 | 4:46:00 | | 47.6 | 54 | 43.6 | 4:00:15 PM | 47.6 | 57543.99373 |
| | 4:47:00 | 4:47:00 | | 53.2 | 61.5 | 44.4 | 4:01:15 PM | 53.2 | 208929.6131 |
| | 4:48:00 | 4:48:00 | | 51.1 | 57.4 | 43.2 | 4:02:15 PM | 51.1 | 128824.9552 |
| | 4:49:00 | 4:49:00 | | 52 | 59 | 43.8 | 4:03:15 PM | 52 | 158489.3192 |
| | 4:50:00 | 4:50:00 | | 53.6 | 61.8 | 43.6 | 4:04:15 PM | 53.6 | 229086.7653 |
| | 4:51:00 | 4:51:00 | | 52.1 | 62.5 | 43.7 | 4:05:15 PM | 52.1 | 162181.0097 |
| | 4:52:00 | 4:52:00 | | 51 | 60.7 | 42.2 | 4:06:15 PM | 51 | 125892.5412 |
| | 4:53:00 | 4:53:00 | | 59 | 66 | 45.5 | 4:07:15 PM | 59 | 794328.2347 |
| | 4:54:00 | 4:54:00 | | 53.6 | 62.4 | 43.6 | 4:08:15 PM | 53.6 | 229086.7653 |
| | 4:55:00 | 4:55:00 | | 53.6 | 60.1 | 43.6 | 4:09:15 PM | 53.6 | 229086.7653 |
| | 4:56:00 | 4:56:00 | | 50.8 | 59 | 42.7 | 4:10:15 PM | 50.8 | 120226.4435 |
| | 4:57:00 | 4:57:00 | | 50 | 59.4 | 42.3 | 4:11:15 PM | 50 | 100000 |
| | 4:58:00 | 4:58:00 | | 54.4 | 64 | 43.9 | 4:12:15 PM | 54.4 | 275422.8703 |
| | 4:59:00 | 4:59:00 | | 52.3 | 63.4 | 41.3 | 4:13:15 PM | 52.3 | 169824.3652 |
| | 5:00:00 | 5:00:00 | | 52.1 | 61.9 | 42.5 | 4:14:15 PM | 52.1 | 162181.0097 |
| | 5:01:00 | 5:01:00 | | 50.4 | 60.1 | 42.9 | 4:15:15 PM | 50.4 | 109647.8196 |
| | 5:02:00 | 5:02:00 | | 47.5 | 54.7 | 42.5 | 4:16:15 PM | 47.5 | 56234.13252 |
| | 5:03:00 | 5:03:00 | | 51.6 | 60.7 | 42.3 | 4:17:15 PM | 51.6 | 144543.9771 |
| | 5:04:00 | 5:04:00 | | 56.5 | 66 | 42.8 | 4:18:15 PM | 56.5 | 446683.5922 |
| | 5:05:00 | 5:05:00 | | 56.7 | 64.2 | 44.6 | 4:19:15 PM | 56.7 | 467735.1413 |
| | 5:06:00 | 5:06:00 | | 51.7 | 56.8 | 43.7 | 4:20:15 PM | 51.7 | 147910.8388 |
| | 5:07:00 | 5:07:00 | | 53.9 | 62.1 | 44.4 | 4:21:15 PM | 53.9 | 245470.8916 |
| | 5:08:00 | 5:08:00 | | 51.2 | 58.7 | 43.7 | 4:22:15 PM | 51.2 | 131825.6739 |
| | 5:09:00 | 5:09:00 | | 55.5 | 63.1 | 42.8 | 4:23:15 PM | 55.5 | 354813.3892 |
| | 5:10:00 | 5:10:00 | | 53.2 | 61.6 | 44.1 | 4:24:15 PM | 53.2 | 208929.6131 |
| | 5:11:00 | 5:11:00 | | 53 | 61 | 45 | 4:25:15 PM | 53 | 199526.2315 |
| | 5:12:00 | 5:12:00 | | 48.3 | 53.8 | 42.3 | 4:26:15 PM | 48.3 | 67608.29754 |
| | 5:13:00 | 5:13:00 | | 53 | 59.3 | 44.8 | 4:27:15 PM | 53 | 199526.2315 |
| | 5:14:00 | 5:14:00 | | 53.9 | 60.9 | 45.1 | 4:28:15 PM | 53.9 | 245470.8916 |
| | 5:15:00 | 5:15:00 | | 51.7 | 59.4 | 45.7 | 4:29:15 PM | 51.7 | 147910.8388 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 5:16:00 | 5:16:00 | | 52.7 | 61.2 | 45.7 | 4:30:15 PM | 52.7 | 186208.7137 |
| | 5:17:00 | 5:17:00 | | 53.1 | 61.3 | 45 | 4:31:15 PM | 53.1 | 204173.7945 |
| | 5:18:00 | 5:18:00 | | 49.9 | 56.3 | 44.1 | 4:32:15 PM | 49.9 | 97723.7221 |
| | 5:19:00 | 5:19:00 | | 53.5 | 59.6 | 44.8 | 4:33:15 PM | 53.5 | 223872.1139 |
| | 5:20:00 | 5:20:00 | | 50.6 | 58.6 | 42.7 | 4:34:15 PM | 50.6 | 114815.3621 |
| | 5:21:00 | 5:21:00 | | 47.6 | 54.6 | 42.6 | 4:35:15 PM | 47.6 | 57543.99373 |
| | 5:22:00 | 5:22:00 | | 51.7 | 62.5 | 43.4 | 4:36:15 PM | 51.7 | 147910.8388 |
| | 5:23:00 | 5:23:00 | | 58.3 | 65.8 | 44.2 | 4:37:15 PM | 58.3 | 676082.9754 |
| | 5:24:00 | 5:24:00 | | 50.9 | 58.7 | 43.3 | 4:38:15 PM | 50.9 | 123026.8771 |
| | 5:25:00 | 5:25:00 | | 54.2 | 62.3 | 43.8 | 4:39:15 PM | 54.2 | 263026.7992 |
| | 5:26:00 | 5:26:00 | | 54.2 | 62.6 | 45.7 | 4:40:15 PM | 54.2 | 263026.7992 |
| | 5:27:00 | 5:27:00 | | 55 | 63.9 | 44.8 | 4:41:15 PM | 55 | 316227.766 |
| | 5:28:00 | 5:28:00 | | 59 | 66.6 | 47.1 | 4:42:15 PM | 59 | 794328.2347 |
| | 5:29:00 | 5:29:00 | | 57.4 | 64.8 | 47.1 | 4:43:15 PM | 57.4 | 549540.8739 |
| | 5:30:00 | 5:30:00 | | 56.8 | 65.8 | 44.9 | 4:44:15 PM | 56.8 | 478630.0923 |
| | 5:31:00 | 5:31:00 | | 57.3 | 64.8 | 46.2 | 4:45:15 PM | 57.3 | 537031.7964 |
| | 5:32:00 | 5:32:00 | | 56.3 | 63.7 | 46 | 4:46:15 PM | 56.3 | 426579.5188 |
| | 5:33:00 | 5:33:00 | | 54 | 60 | 47.2 | 4:47:15 PM | 54 | 251188.6432 |
| | 5:34:00 | 5:34:00 | | 57.4 | 64.8 | 49.9 | 4:48:15 PM | 57.4 | 549540.8739 |
| | 5:35:00 | 5:35:00 | | 57 | 64.7 | 47.4 | 4:49:15 PM | 57 | 501187.2336 |
| | 5:36:00 | 5:36:00 | | 55.5 | 63.3 | 46.7 | 4:50:15 PM | 55.5 | 354813.3892 |
| | 5:37:00 | 5:37:00 | | 56.6 | 62 | 45 | 4:51:15 PM | 56.6 | 457088.1896 |
| | 5:38:00 | 5:38:00 | | 57.1 | 62.7 | 46.3 | 4:52:15 PM | 57.1 | 512861.384 |
| | 5:39:00 | 5:39:00 | | 55.7 | 61.2 | 47.8 | 4:53:15 PM | 55.7 | 371535.2291 |
| | 5:40:00 | 5:40:00 | | 52.8 | 59 | 44.4 | 4:54:15 PM | 52.8 | 190546.0718 |
| | 5:41:00 | 5:41:00 | | 50.9 | 61.2 | 43.4 | 4:55:15 PM | 50.9 | 123026.8771 |
| | 5:42:00 | 5:42:00 | | 54.2 | 61.7 | 44.8 | 4:56:15 PM | 54.2 | 263026.7992 |
| | 5:43:00 | 5:43:00 | | 52.1 | 59.8 | 42.5 | 4:57:15 PM | 52.1 | 162181.0097 |
| | 5:44:00 | 5:44:00 | | 52.4 | 62.1 | 42.9 | 4:58:15 PM | 52.4 | 173780.0829 |
| | 5:45:00 | 5:45:00 | | 57.3 | 62.6 | 45.8 | 4:59:15 PM | 57.3 | 537031.7964 |
| | 5:46:00 | 5:46:00 | | 53.3 | 58 | 45.1 | 5:00:15 PM | 53.3 | 213796.209 |
| | 5:47:00 | 5:47:00 | | 48.1 | 53.9 | 43.6 | 5:01:15 PM | 48.1 | 64565.4229 |
| | 5:48:00 | 5:48:00 | | 52.8 | 60.1 | 43.6 | 5:02:15 PM | 52.8 | 190546.0718 |
| | 5:49:00 | 5:49:00 | | 53.6 | 59.9 | 43.9 | 5:03:15 PM | 53.6 | 229086.7653 |
| | 5:50:00 | 5:50:00 | | 54.2 | 62.5 | 45.6 | 5:04:15 PM | 54.2 | 263026.7992 |
| | 5:51:00 | 5:51:00 | | 54.9 | 64.2 | 45 | 5:05:15 PM | 54.9 | 309029.5433 |
| | 5:52:00 | 5:52:00 | | 53 | 60.8 | 44.6 | 5:06:15 PM | 53 | 199526.2315 |
| | 5:53:00 | 5:53:00 | | 49.9 | 56.1 | 43.3 | 5:07:15 PM | 49.9 | 97723.7221 |
| | 5:54:00 | 5:54:00 | | 53 | 59.6 | 43.4 | 5:08:15 PM | 53 | 199526.2315 |
| | 5:55:00 | 5:55:00 | | 49 | 55.5 | 41.8 | 5:09:15 PM | 49 | 79432.82347 |
| | 5:56:00 | 5:56:00 | | 53.8 | 60.3 | 42.5 | 5:10:15 PM | 53.8 | 239883.2919 |
| | 5:57:00 | 5:57:00 | | 53.3 | 61.7 | 44.7 | 5:11:15 PM | 53.3 | 213796.209 |
| | 5:58:00 | 5:58:00 | | 50.4 | 56.5 | 42.3 | 5:12:15 PM | 50.4 | 109647.8196 |
| | 5:59:00 | 5:59:00 | | 51 | 55.8 | 44.6 | 5:13:15 PM | 51 | 125892.5412 |
| | 6:00:00 | 6:00:00 | | 49.7 | 57.6 | 42.4 | 5:14:15 PM | 49.7 | 93325.43008 |
| | 6:01:00 | 6:01:00 | | 51.2 | 59.2 | 41.9 | 5:15:15 PM | 51.2 | 131825.6739 |
| | 6:02:00 | 6:02:00 | | 51.5 | 55.2 | 44.7 | 5:16:15 PM | 51.5 | 141253.7545 |
| | 6:03:00 | 6:03:00 | | 46.1 | 51.7 | 39.8 | 5:17:15 PM | 46.1 | 40738.02778 |
| | 6:04:00 | 6:04:00 | | 52.1 | 59.4 | 40.5 | 5:18:15 PM | 52.1 | 162181.0097 |
| | 6:05:00 | 6:05:00 | | 50.5 | 59.7 | 43.2 | 5:19:15 PM | 50.5 | 112201.8454 |
| | 6:06:00 | 6:06:00 | | 50.8 | 59.3 | 42.6 | 5:20:15 PM | 50.8 | 120226.4435 |
| | 6:07:00 | 6:07:00 | | 52.9 | 59.1 | 45.2 | 5:21:15 PM | 52.9 | 194984.46 |
| | 6:08:00 | 6:08:00 | | 49.2 | 57.4 | 43.6 | 5:22:15 PM | 49.2 | 83176.37711 |
| | 6:09:00 | 6:09:00 | | 46.9 | 54 | 41.7 | 5:23:15 PM | 46.9 | 48977.88194 |
| | 6:10:00 | 6:10:00 | | 49.3 | 56 | 41.2 | 5:24:15 PM | 49.3 | 85113.80382 |
| | 6:11:00 | 6:11:00 | | 49.2 | 56.9 | 41.9 | 5:25:15 PM | 49.2 | 83176.37711 |
| | 6:12:00 | 6:12:00 | | 46.1 | 52.3 | 40.8 | 5:26:15 PM | 46.1 | 40738.02778 |
| | 6:13:00 | 6:13:00 | | 46.6 | 55.3 | 41.8 | 5:27:15 PM | 46.6 | 45708.81896 |
| | 6:14:00 | 6:14:00 | | 48.2 | 59.4 | 41.9 | 5:28:15 PM | 48.2 | 66069.3448 |
| | 6:15:00 | 6:15:00 | | 47.3 | 53.9 | 43 | 5:29:15 PM | 47.3 | 53703.17964 |
| | 6:16:00 | 6:16:00 | | 55.8 | 62.2 | 43.8 | 5:30:15 PM | 55.8 | 380189.3963 |
| | 6:17:00 | 6:17:00 | | 51.5 | 59.5 | 43.5 | 5:31:15 PM | 51.5 | 141253.7545 |
| | 6:18:00 | 6:18:00 | | 53.1 | 60.6 | 43.3 | 5:32:15 PM | 53.1 | 204173.7945 |
| | 6:19:00 | 6:19:00 | | 54.9 | 63.3 | 46.3 | 5:33:15 PM | 54.9 | 309029.5433 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 6:20:00 | 6:20:00 | | 53.9 | 60.4 | 47.4 | 5:34:15 PM | 53.9 | 245470.8916 |
| | 6:21:00 | 6:21:00 | | 52 | 60.8 | 43.7 | 5:35:15 PM | 52 | 158489.3192 |
| | 6:22:00 | 6:22:00 | | 51.5 | 58.2 | 42.8 | 5:36:15 PM | 51.5 | 141253.7545 |
| | 6:23:00 | 6:23:00 | | 56.8 | 62 | 47.7 | 5:37:15 PM | 56.8 | 478630.0923 |
| | 6:24:00 | 6:24:00 | | 56.8 | 67.2 | 46.5 | 5:38:15 PM | 56.8 | 478630.0923 |
| | 6:25:00 | 6:25:00 | | 57.4 | 64 | 48.2 | 5:39:15 PM | 57.4 | 549540.8739 |
| | 6:26:00 | 6:26:00 | | 50.3 | 59.7 | 44.3 | 5:40:15 PM | 50.3 | 107151.9305 |
| | 6:27:00 | 6:27:00 | | 50.8 | 59.1 | 44.3 | 5:41:15 PM | 50.8 | 120226.4435 |
| | 6:28:00 | 6:28:00 | | 47.3 | 55.9 | 41.6 | 5:42:15 PM | 47.3 | 53703.17964 |
| | 6:29:00 | 6:29:00 | | 52.5 | 60.1 | 42.7 | 5:43:15 PM | 52.5 | 177827.941 |
| | 6:30:00 | 6:30:00 | | 54.2 | 62.7 | 44.1 | 5:44:15 PM | 54.2 | 263026.7992 |
| | 6:31:00 | 6:31:00 | | 55.6 | 62.7 | 43.1 | 5:45:15 PM | 55.6 | 363078.0548 |
| | 6:32:00 | 6:32:00 | | 51 | 59.2 | 43.6 | 5:46:15 PM | 51 | 125892.5412 |
| | 6:33:00 | 6:33:00 | | 46.9 | 53.3 | 42.9 | 5:47:15 PM | 46.9 | 48977.88194 |
| | 6:34:00 | 6:34:00 | | 49.4 | 56.5 | 42.5 | 5:48:15 PM | 49.4 | 87096.359 |
| | 6:35:00 | 6:35:00 | | 53.1 | 62.2 | 43.7 | 5:49:15 PM | 53.1 | 204173.7945 |
| | 6:36:00 | 6:36:00 | | 52.2 | 59.2 | 45 | 5:50:15 PM | 52.2 | 165958.6907 |
| | 6:37:00 | 6:37:00 | | 51.2 | 57.7 | 44.4 | 5:51:15 PM | 51.2 | 131825.6739 |
| | 6:38:00 | 6:38:00 | | 53.8 | 60.4 | 44.5 | 5:52:15 PM | 53.8 | 239883.2919 |
| | 6:39:00 | 6:39:00 | | 51.9 | 60.2 | 42.9 | 5:53:15 PM | 51.9 | 154881.6619 |
| | 6:40:00 | 6:40:00 | | 51 | 59.7 | 42.9 | 5:54:15 PM | 51 | 125892.5412 |
| | 6:41:00 | 6:41:00 | | 50.9 | 60 | 43.8 | 5:55:15 PM | 50.9 | 123026.8771 |
| | 6:42:00 | 6:42:00 | | 51.6 | 58.9 | 42.5 | 5:56:15 PM | 51.6 | 144543.9771 |
| | 6:43:00 | 6:43:00 | | 53.3 | 61.9 | 42.5 | 5:57:15 PM | 53.3 | 213796.209 |
| | 6:44:00 | 6:44:00 | | 50.8 | 58.8 | 41.6 | 5:58:15 PM | 50.8 | 120226.4435 |
| | 6:45:00 | 6:45:00 | | 49.9 | 55.5 | 43 | 5:59:15 PM | 49.9 | 97723.7221 |
| | 6:46:00 | 6:46:00 | | 52.4 | 61.9 | 44.4 | 6:00:15 PM | 52.4 | 173780.0829 |
| | 6:47:00 | 6:47:00 | | 55.2 | 63.4 | 46 | 6:01:15 PM | 55.2 | 331131.1215 |
| | 6:48:00 | 6:48:00 | | 51.4 | 58.3 | 44.1 | 6:02:15 PM | 51.4 | 138038.4265 |
| | 6:49:00 | 6:49:00 | | 53.7 | 60 | 46.6 | 6:03:15 PM | 53.7 | 234422.8815 |
| | 6:50:00 | 6:50:00 | | 52.2 | 58.5 | 43.2 | 6:04:15 PM | 52.2 | 165958.6907 |
| | 6:51:00 | 6:51:00 | | 55.4 | 65.2 | 44.1 | 6:05:15 PM | 55.4 | 346736.8505 |
| | 6:52:00 | 6:52:00 | | 53.8 | 60.9 | 44.8 | 6:06:15 PM | 53.8 | 239883.2919 |
| | 6:53:00 | 6:53:00 | | 51.4 | 58 | 43.6 | 6:07:15 PM | 51.4 | 138038.4265 |
| | 6:54:00 | 6:54:00 | | 51 | 61.9 | 42 | 6:08:15 PM | 51 | 125892.5412 |
| | 6:55:00 | 6:55:00 | | 49.8 | 56.9 | 43.2 | 6:09:15 PM | 49.8 | 95499.2586 |
| | 6:56:00 | 6:56:00 | | 49.6 | 57.3 | 42.6 | 6:10:15 PM | 49.6 | 91201.08394 |
| | 6:57:00 | 6:57:00 | | 50.1 | 58.7 | 41.5 | 6:11:15 PM | 50.1 | 102329.2992 |
| | 6:58:00 | 6:58:00 | | 52.8 | 61.9 | 43.5 | 6:12:15 PM | 52.8 | 190546.0718 |
| | 6:59:00 | 6:59:00 | | 51 | 56.1 | 42.1 | 6:13:15 PM | 51 | 125892.5412 |
| | 7:00:00 | 7:00:00 | | 50.4 | 61.1 | 40.8 | 6:14:15 PM | 50.4 | 109647.8196 |
| | 7:01:00 | 7:01:00 | | 43.2 | 48.8 | 40.9 | 6:15:15 PM | 43.2 | 20892.96131 |
| | 7:02:00 | 7:02:00 | | 52.3 | 59.2 | 45.2 | 6:16:15 PM | 52.3 | 169824.3652 |
| | 7:03:00 | 7:03:00 | | 47.7 | 53.9 | 40.6 | 6:17:15 PM | 47.7 | 58884.36554 |
| | 7:04:00 | 7:04:00 | | 50 | 56.7 | 42.6 | 6:18:15 PM | 50 | 100000 |
| | 7:05:00 | 7:05:00 | | 45.8 | 52.7 | 39 | 6:19:15 PM | 45.8 | 38018.93963 |
| | 7:06:00 | 7:06:00 | | 52.1 | 61.2 | 42.5 | 6:20:15 PM | 52.1 | 162181.0097 |
| | 7:07:00 | 7:07:00 | | 54 | 62.3 | 42.2 | 6:21:15 PM | 54 | 251188.6432 |
| | 7:08:00 | 7:08:00 | | 52.8 | 60 | 44 | 6:22:15 PM | 52.8 | 190546.0718 |
| | 7:09:00 | 7:09:00 | | 52.4 | 58.5 | 42.7 | 6:23:15 PM | 52.4 | 173780.0829 |
| | 7:10:00 | 7:10:00 | | 50.2 | 57.4 | 39 | 6:24:15 PM | 50.2 | 104712.8548 |
| | 7:11:00 | 7:11:00 | | 49.1 | 56.4 | 39.4 | 6:25:15 PM | 49.1 | 81283.05162 |
| | 7:12:00 | 7:12:00 | | 47.4 | 55.5 | 41.5 | 6:26:15 PM | 47.4 | 54954.08739 |
| | 7:13:00 | 7:13:00 | | 49.4 | 55.8 | 40.4 | 6:27:15 PM | 49.4 | 87096.359 |
| | 7:14:00 | 7:14:00 | | 51.2 | 60.1 | 40.9 | 6:28:15 PM | 51.2 | 131825.6739 |
| | 7:15:00 | 7:15:00 | | 51.5 | 58.7 | 42.2 | 6:29:15 PM | 51.5 | 141253.7545 |
| | 7:16:00 | 7:16:00 | | 47.5 | 56.6 | 40.1 | 6:30:15 PM | 47.5 | 56234.13252 |
| | 7:17:00 | 7:17:00 | | 56.3 | 64.8 | 42.3 | 6:31:15 PM | 56.3 | 426579.5188 |
| | 7:18:00 | 7:18:00 | | 52.3 | 61.1 | 42.9 | 6:32:15 PM | 52.3 | 169824.3652 |
| | 7:19:00 | 7:19:00 | | 53.7 | 60.7 | 42.4 | 6:33:15 PM | 53.7 | 234422.8815 |
| | 7:20:00 | 7:20:00 | | 49.1 | 59.2 | 41.3 | 6:34:15 PM | 49.1 | 81283.05162 |
| | 7:21:00 | 7:21:00 | | 48.3 | 56.7 | 41.1 | 6:35:15 PM | 48.3 | 67608.29754 |
| | 7:22:00 | 7:22:00 | | 49.1 | 56.2 | 41.2 | 6:36:15 PM | 49.1 | 81283.05162 |
| | 7:23:00 | 7:23:00 | | 48.2 | 57.8 | 40.2 | 6:37:15 PM | 48.2 | 66069.3448 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 7:24:00 | 7:24:00 | | 44 | 48 | 39.7 | 6:38:15 PM | 44 | 25118.86432 |
| | 7:25:00 | 7:25:00 | | 45.5 | 52.2 | 40.6 | 6:39:15 PM | 45.5 | 35481.33892 |
| | 7:26:00 | 7:26:00 | | 50.4 | 58.9 | 41.8 | 6:40:15 PM | 50.4 | 109647.8196 |
| | 7:27:00 | 7:27:00 | | 52.9 | 59.1 | 45.2 | 6:41:15 PM | 52.9 | 194984.46 |
| | 7:28:00 | 7:28:00 | | 55.5 | 62.5 | 44.4 | 6:42:15 PM | 55.5 | 354813.3892 |
| | 7:29:00 | 7:29:00 | | 50.8 | 59.4 | 41.4 | 6:43:15 PM | 50.8 | 120226.4435 |
| | 7:30:00 | 7:30:00 | | 47.6 | 55.3 | 40.4 | 6:44:15 PM | 47.6 | 57543.99373 |
| | 7:31:00 | 7:31:00 | | 52 | 57.7 | 41.5 | 6:45:15 PM | 52 | 158489.3192 |
| | 7:32:00 | 7:32:00 | | 52.4 | 62 | 40.7 | 6:46:15 PM | 52.4 | 173780.0829 |
| | 7:33:00 | 7:33:00 | | 48.9 | 61.6 | 41.4 | 6:47:15 PM | 48.9 | 77624.71166 |
| | 7:34:00 | 7:34:00 | | 57.8 | 64.8 | 47.3 | 6:48:15 PM | 57.8 | 602559.5861 |
| | 7:35:00 | 7:35:00 | | 51 | 59.3 | 42.4 | 6:49:15 PM | 51 | 125892.5412 |
| | 7:36:00 | 7:36:00 | | 54 | 64.9 | 44.5 | 6:50:15 PM | 54 | 251188.6432 |
| | 7:37:00 | 7:37:00 | | 56.2 | 64.4 | 45.8 | 6:51:15 PM | 56.2 | 416869.3835 |
| | 7:38:00 | 7:38:00 | | 55 | 61.8 | 44.9 | 6:52:15 PM | 55 | 316227.766 |
| | 7:39:00 | 7:39:00 | | 47.7 | 52.8 | 41.5 | 6:53:15 PM | 47.7 | 58884.36554 |
| | 7:40:00 | 7:40:00 | | 51.8 | 58.7 | 40.8 | 6:54:15 PM | 51.8 | 151356.1248 |
| | 7:41:00 | 7:41:00 | | 50.6 | 59.3 | 41.8 | 6:55:15 PM | 50.6 | 114815.3621 |
| | 7:42:00 | 7:42:00 | | 50.1 | 59 | 40.5 | 6:56:15 PM | 50.1 | 102329.2992 |
| | 7:43:00 | 7:43:00 | | 45.4 | 53.3 | 40.2 | 6:57:15 PM | 45.4 | 34673.68505 |
| | 7:44:00 | 7:44:00 | | 48.1 | 58.1 | 39.9 | 6:58:15 PM | 48.1 | 64565.4229 |
| | 7:45:00 | 7:45:00 | | 47.3 | 55.6 | 41.1 | 6:59:15 PM | 47.3 | 53703.17964 |
| | 7:46:00 | 7:46:00 | | 46.8 | 57.7 | 39.3 | 7:00:15 PM | 56.8 | 478630.0923 |
| | 7:47:00 | 7:47:00 | | 41.9 | 45.8 | 39.2 | 7:01:15 PM | 51.9 | 154881.6619 |
| | 7:48:00 | 7:48:00 | | 46.2 | 52.7 | 39.9 | 7:02:15 PM | 56.2 | 416869.3835 |
| | 7:49:00 | 7:49:00 | | 45 | 51.9 | 40.3 | 7:03:15 PM | 55 | 316227.766 |
| | 7:50:00 | 7:50:00 | | 46.1 | 53.3 | 39 | 7:04:15 PM | 56.1 | 407380.2778 |
| | 7:51:00 | 7:51:00 | | 42.9 | 48.8 | 38.5 | 7:05:15 PM | 52.9 | 194984.46 |
| | 7:52:00 | 7:52:00 | | 47.6 | 54.4 | 38.7 | 7:06:15 PM | 57.6 | 575439.9373 |
| | 7:53:00 | 7:53:00 | | 47.7 | 55.8 | 41.3 | 7:07:15 PM | 57.7 | 588843.6554 |
| | 7:54:00 | 7:54:00 | | 45.4 | 52.4 | 38.8 | 7:08:15 PM | 55.4 | 346736.8505 |
| | 7:55:00 | 7:55:00 | | 46.7 | 52.3 | 39.2 | 7:09:15 PM | 56.7 | 467735.1413 |
| | 7:56:00 | 7:56:00 | | 43.7 | 52.1 | 37.8 | 7:10:15 PM | 53.7 | 234422.8815 |
| | 7:57:00 | 7:57:00 | | 39.6 | 44.5 | 36.5 | 7:11:15 PM | 49.6 | 91201.08394 |
| | 7:58:00 | 7:58:00 | | 44.6 | 52.6 | 37.4 | 7:12:15 PM | 54.6 | 288403.1503 |
| | 7:59:00 | 7:59:00 | | 49.8 | 58.9 | 41.3 | 7:13:15 PM | 59.8 | 954992.586 |
| | 8:00:00 | 8:00:00 | | 51.3 | 59.1 | 40.7 | 7:14:15 PM | 61.3 | 1348962.883 |
| | 8:01:00 | 8:01:00 | | 48.7 | 57.1 | 39.1 | 7:15:15 PM | 58.7 | 741310.2413 |
| | 8:02:00 | 8:02:00 | | 47.7 | 57.5 | 39.2 | 7:16:15 PM | 57.7 | 588843.6554 |
| | 8:03:00 | 8:03:00 | | 50.4 | 58.6 | 37.9 | 7:17:15 PM | 60.4 | 1096478.196 |
| | 8:04:00 | 8:04:00 | | 51.2 | 58.4 | 40.8 | 7:18:15 PM | 61.2 | 1318256.739 |
| | 8:05:00 | 8:05:00 | | 49.5 | 56.8 | 41.5 | 7:19:15 PM | 59.5 | 891250.9381 |
| | 8:06:00 | 8:06:00 | | 55.4 | 64.4 | 40.8 | 7:20:15 PM | 65.4 | 3467368.505 |
| | 8:07:00 | 8:07:00 | | 50.1 | 56.2 | 40.1 | 7:21:15 PM | 60.1 | 1023292.992 |
| | 8:08:00 | 8:08:00 | | 51.4 | 60 | 40.5 | 7:22:15 PM | 61.4 | 1380384.265 |
| | 8:09:00 | 8:09:00 | | 48.7 | 54.8 | 40.2 | 7:23:15 PM | 58.7 | 741310.2413 |
| | 8:10:00 | 8:10:00 | | 47.2 | 54.3 | 40.9 | 7:24:15 PM | 57.2 | 524807.4602 |
| | 8:11:00 | 8:11:00 | | 48.3 | 57.9 | 38.5 | 7:25:15 PM | 58.3 | 676082.9754 |
| | 8:12:00 | 8:12:00 | | 50.8 | 61 | 40.9 | 7:26:15 PM | 60.8 | 1202264.435 |
| | 8:13:00 | 8:13:00 | | 48.9 | 55.8 | 40.1 | 7:27:15 PM | 58.9 | 776247.1166 |
| | 8:14:00 | 8:14:00 | | 44.2 | 51 | 38.4 | 7:28:15 PM | 54.2 | 263026.7992 |
| | 8:15:00 | 8:15:00 | | 48.4 | 57.2 | 39.8 | 7:29:15 PM | 58.4 | 691830.9709 |
| | 8:16:00 | 8:16:00 | | 48.9 | 60.3 | 40.6 | 7:30:15 PM | 58.9 | 776247.1166 |
| | 8:17:00 | 8:17:00 | | 46.5 | 54.1 | 40.2 | 7:31:15 PM | 56.5 | 446683.5922 |
| | 8:18:00 | 8:18:00 | | 46.5 | 55.5 | 39.9 | 7:32:15 PM | 56.5 | 446683.5922 |
| | 8:19:00 | 8:19:00 | | 50.7 | 59.6 | 41.4 | 7:33:15 PM | 60.7 | 1174897.555 |
| | 8:20:00 | 8:20:00 | | 46.8 | 55.2 | 40.9 | 7:34:15 PM | 56.8 | 478630.0923 |
| | 8:21:00 | 8:21:00 | | 48 | 55.6 | 39 | 7:35:15 PM | 58 | 630957.3445 |
| | 8:22:00 | 8:22:00 | | 43.3 | 49.6 | 38.3 | 7:36:15 PM | 53.3 | 213796.209 |
| | 8:23:00 | 8:23:00 | | 44.3 | 53 | 39 | 7:37:15 PM | 54.3 | 269153.4804 |
| | 8:24:00 | 8:24:00 | | 47.4 | 56.1 | 39.4 | 7:38:15 PM | 57.4 | 549540.8739 |
| | 8:25:00 | 8:25:00 | | 42.5 | 47.1 | 40.3 | 7:39:15 PM | 52.5 | 177827.941 |
| | 8:26:00 | 8:26:00 | | 44.4 | 49.8 | 40 | 7:40:15 PM | 54.4 | 275422.8703 |
| | 8:27:00 | 8:27:00 | | 42.1 | 46.5 | 39.3 | 7:41:15 PM | 52.1 | 162181.0097 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 8:28:00 | 8:28:00 | | 42.5 | 50.4 | 39.9 | 7:42:15 PM | 52.5 | 177827.941 |
| | 8:29:00 | 8:29:00 | | 44.7 | 53.8 | 39.1 | 7:43:15 PM | 54.7 | 295120.9227 |
| | 8:30:00 | 8:30:00 | | 42.8 | 47.7 | 39.4 | 7:44:15 PM | 52.8 | 190546.0718 |
| | 8:31:00 | 8:31:00 | | 42.8 | 48.8 | 39.1 | 7:45:15 PM | 52.8 | 190546.0718 |
| | 8:32:00 | 8:32:00 | | 41 | 45.5 | 39.2 | 7:46:15 PM | 51 | 125892.5412 |
| | 8:33:00 | 8:33:00 | | 42.4 | 47.6 | 39.6 | 7:47:15 PM | 52.4 | 173780.0829 |
| | 8:34:00 | 8:34:00 | | 42.9 | 49.2 | 40.2 | 7:48:15 PM | 52.9 | 194984.46 |
| | 8:35:00 | 8:35:00 | | 44.4 | 50.7 | 40.5 | 7:49:15 PM | 54.4 | 275422.8703 |
| | 8:36:00 | 8:36:00 | | 46.8 | 51.8 | 42.2 | 7:50:15 PM | 56.8 | 478630.0923 |
| | 8:37:00 | 8:37:00 | | 44.5 | 50.8 | 41.4 | 7:51:15 PM | 54.5 | 281838.2931 |
| | 8:38:00 | 8:38:00 | | 42 | 46 | 38.6 | 7:52:15 PM | 52 | 158489.3192 |
| | 8:39:00 | 8:39:00 | | 42.4 | 48.3 | 39.7 | 7:53:15 PM | 52.4 | 173780.0829 |
| | 8:40:00 | 8:40:00 | | 45.2 | 51.2 | 40.1 | 7:54:15 PM | 55.2 | 331131.1215 |
| | 8:41:00 | 8:41:00 | | 46.2 | 56.6 | 39.6 | 7:55:15 PM | 56.2 | 416869.3835 |
| | 8:42:00 | 8:42:00 | | 47.8 | 55.7 | 41 | 7:56:15 PM | 57.8 | 602559.5861 |
| | 8:43:00 | 8:43:00 | | 45.2 | 49.8 | 40.6 | 7:57:15 PM | 55.2 | 331131.1215 |
| | 8:44:00 | 8:44:00 | | 51.9 | 60.2 | 43.3 | 7:58:15 PM | 61.9 | 1548816.619 |
| | 8:45:00 | 8:45:00 | | 50.2 | 59.5 | 42 | 7:59:15 PM | 60.2 | 1047128.548 |
| | 8:46:00 | 8:46:00 | | 44.1 | 49 | 39.3 | 8:00:15 PM | 54.1 | 257039.5783 |
| | 8:47:00 | 8:47:00 | | 44 | 51.3 | 39.3 | 8:01:15 PM | 54 | 251188.6432 |
| | 8:48:00 | 8:48:00 | | 44.2 | 50.8 | 39.5 | 8:02:15 PM | 54.2 | 263026.7992 |
| | 8:49:00 | 8:49:00 | | 46.8 | 53.4 | 40.1 | 8:03:15 PM | 56.8 | 478630.0923 |
| | 8:50:00 | 8:50:00 | | 44.7 | 53.6 | 39.6 | 8:04:15 PM | 54.7 | 295120.9227 |
| | 8:51:00 | 8:51:00 | | 43.1 | 51.8 | 38.9 | 8:05:15 PM | 53.1 | 204173.7945 |
| | 8:52:00 | 8:52:00 | | 41.2 | 49.4 | 38.6 | 8:06:15 PM | 51.2 | 131825.6739 |
| | 8:53:00 | 8:53:00 | | 42.1 | 45 | 38.4 | 8:07:15 PM | 52.1 | 162181.0097 |
| | 8:54:00 | 8:54:00 | | 46.6 | 53.3 | 39.6 | 8:08:15 PM | 56.6 | 457088.1896 |
| | 8:55:00 | 8:55:00 | | 44.1 | 48.1 | 40.1 | 8:09:15 PM | 54.1 | 257039.5783 |
| | 8:56:00 | 8:56:00 | | 47.5 | 53.7 | 41.5 | 8:10:15 PM | 57.5 | 562341.3252 |
| | 8:57:00 | 8:57:00 | | 47.4 | 54.1 | 40.6 | 8:11:15 PM | 57.4 | 549540.8739 |
| | 8:58:00 | 8:58:00 | | 44.5 | 51.2 | 39.5 | 8:12:15 PM | 54.5 | 281838.2931 |
| | 8:59:00 | 8:59:00 | | 47.9 | 52.9 | 42 | 8:13:15 PM | 57.9 | 616595.0019 |
| | 9:00:00 | 9:00:00 | | 45.8 | 51.5 | 40.5 | 8:14:15 PM | 55.8 | 380189.3963 |
| | 9:01:00 | 9:01:00 | | 43 | 48.8 | 39.1 | 8:15:15 PM | 53 | 199526.2315 |
| | 9:02:00 | 9:02:00 | | 47.3 | 53.9 | 41 | 8:16:15 PM | 57.3 | 537031.7964 |
| | 9:03:00 | 9:03:00 | | 47.3 | 53.1 | 41.8 | 8:17:15 PM | 57.3 | 537031.7964 |
| | 9:04:00 | 9:04:00 | | 48.2 | 52.2 | 42.3 | 8:18:15 PM | 58.2 | 660693.448 |
| | 9:05:00 | 9:05:00 | | 44.2 | 51 | 40.2 | 8:19:15 PM | 54.2 | 263026.7992 |
| | 9:06:00 | 9:06:00 | | 47.4 | 55.1 | 41 | 8:20:15 PM | 57.4 | 549540.8739 |
| | 9:07:00 | 9:07:00 | | 46.8 | 53.2 | 39.9 | 8:21:15 PM | 56.8 | 478630.0923 |
| | 9:08:00 | 9:08:00 | | 48 | 54.3 | 41.9 | 8:22:15 PM | 58 | 630957.3445 |
| | 9:09:00 | 9:09:00 | | 50.3 | 56.8 | 41.5 | 8:23:15 PM | 60.3 | 1071519.305 |
| | 9:10:00 | 9:10:00 | | 50.8 | 58.1 | 43.1 | 8:24:15 PM | 60.8 | 1202264.435 |
| | 9:11:00 | 9:11:00 | | 44.6 | 51.2 | 40.2 | 8:25:15 PM | 54.6 | 288403.1503 |
| | 9:12:00 | 9:12:00 | | 46.7 | 50.5 | 41.1 | 8:26:15 PM | 56.7 | 467735.1413 |
| | 9:13:00 | 9:13:00 | | 47.4 | 53.9 | 41.1 | 8:27:15 PM | 57.4 | 549540.8739 |
| | 9:14:00 | 9:14:00 | | 45.6 | 54.8 | 39.2 | 8:28:15 PM | 55.6 | 363078.0548 |
| | 9:15:00 | 9:15:00 | | 46.4 | 51.1 | 41.4 | 8:29:15 PM | 56.4 | 436515.8322 |
| | 9:16:00 | 9:16:00 | | 45.1 | 51.7 | 40.1 | 8:30:15 PM | 55.1 | 323593.6569 |
| | 9:17:00 | 9:17:00 | | 44.7 | 53.3 | 40.1 | 8:31:15 PM | 54.7 | 295120.9227 |
| | 9:18:00 | 9:18:00 | | 42.8 | 48.9 | 39.7 | 8:32:15 PM | 52.8 | 190546.0718 |
| | 9:19:00 | 9:19:00 | | 42.9 | 48.5 | 40.3 | 8:33:15 PM | 52.9 | 194984.46 |
| | 9:20:00 | 9:20:00 | | 42.6 | 47.3 | 39.6 | 8:34:15 PM | 52.6 | 181970.0859 |
| | 9:21:00 | 9:21:00 | | 44.6 | 51.3 | 41 | 8:35:15 PM | 54.6 | 288403.1503 |
| | 9:22:00 | 9:22:00 | | 43.5 | 47.5 | 40.7 | 8:36:15 PM | 53.5 | 223872.1139 |
| | 9:23:00 | 9:23:00 | | 47.1 | 56.9 | 40.3 | 8:37:15 PM | 57.1 | 512861.384 |
| | 9:24:00 | 9:24:00 | | 44.9 | 51.3 | 41.6 | 8:38:15 PM | 54.9 | 309029.5433 |
| | 9:25:00 | 9:25:00 | | 48.1 | 54.2 | 41.1 | 8:39:15 PM | 58.1 | 645654.229 |
| | 9:26:00 | 9:26:00 | | 42 | 45.4 | 39.6 | 8:40:15 PM | 52 | 158489.3192 |
| | 9:27:00 | 9:27:00 | | 45.7 | 53.1 | 39.4 | 8:41:15 PM | 55.7 | 371535.2291 |
| | 9:28:00 | 9:28:00 | | 43.2 | 48 | 40 | 8:42:15 PM | 53.2 | 208929.6131 |
| | 9:29:00 | 9:29:00 | | 43 | 51.8 | 39.3 | 8:43:15 PM | 53 | 199526.2315 |
| | 9:30:00 | 9:30:00 | | 43.5 | 51.4 | 39.9 | 8:44:15 PM | 53.5 | 223872.1139 |
| | 9:31:00 | 9:31:00 | | 42.9 | 47.7 | 40.6 | 8:45:15 PM | 52.9 | 194984.46 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 9:32:00 | 9:32:00 | | 42.7 | 47.7 | 39.4 | 8:46:15 PM | 52.7 | 186208.7137 |
| | 9:33:00 | 9:33:00 | | 43.6 | 49.6 | 40.2 | 8:47:15 PM | 53.6 | 229086.7653 |
| | 9:34:00 | 9:34:00 | | 42.7 | 47.1 | 40 | 8:48:15 PM | 52.7 | 186208.7137 |
| | 9:35:00 | 9:35:00 | | 42.6 | 46.6 | 40 | 8:49:15 PM | 52.6 | 181970.0859 |
| | 9:36:00 | 9:36:00 | | 42.4 | 46.5 | 39.8 | 8:50:15 PM | 52.4 | 173780.0829 |
| | 9:37:00 | 9:37:00 | | 42.3 | 48.2 | 39.5 | 8:51:15 PM | 52.3 | 169824.3652 |
| | 9:38:00 | 9:38:00 | | 41.2 | 47 | 38.7 | 8:52:15 PM | 51.2 | 131825.6739 |
| | 9:39:00 | 9:39:00 | | 40.9 | 43.7 | 38.8 | 8:53:15 PM | 50.9 | 123026.8771 |
| | 9:40:00 | 9:40:00 | | 42.1 | 48.1 | 38.5 | 8:54:15 PM | 52.1 | 162181.0097 |
| | 9:41:00 | 9:41:00 | | 40.8 | 42.8 | 39.2 | 8:55:15 PM | 50.8 | 120226.4435 |
| | 9:42:00 | 9:42:00 | | 41.5 | 46.7 | 38.9 | 8:56:15 PM | 51.5 | 141253.7545 |
| | 9:43:00 | 9:43:00 | | 40.5 | 43.3 | 38.9 | 8:57:15 PM | 50.5 | 112201.8454 |
| | 9:44:00 | 9:44:00 | | 42.4 | 47 | 39.3 | 8:58:15 PM | 52.4 | 173780.0829 |
| | 9:45:00 | 9:45:00 | | 40.8 | 46.6 | 38.2 | 8:59:15 PM | 50.8 | 120226.4435 |
| | 9:46:00 | 9:46:00 | | 41.8 | 44.8 | 39.3 | 9:00:15 PM | 51.8 | 151356.1248 |
| | 9:47:00 | 9:47:00 | | 42.7 | 49 | 39.5 | 9:01:15 PM | 52.7 | 186208.7137 |
| | 9:48:00 | 9:48:00 | | 41.5 | 43.7 | 38.7 | 9:02:15 PM | 51.5 | 141253.7545 |
| | 9:49:00 | 9:49:00 | | 42.3 | 45.7 | 40.2 | 9:03:15 PM | 52.3 | 169824.3652 |
| | 9:50:00 | 9:50:00 | | 40.9 | 44.4 | 38.8 | 9:04:15 PM | 50.9 | 123026.8771 |
| | 9:51:00 | 9:51:00 | | 42.9 | 46.2 | 39.2 | 9:05:15 PM | 52.9 | 194984.46 |
| | 9:52:00 | 9:52:00 | | 42.2 | 45.9 | 39.4 | 9:06:15 PM | 52.2 | 165958.6907 |
| | 9:53:00 | 9:53:00 | | 42.3 | 46.6 | 39.6 | 9:07:15 PM | 52.3 | 169824.3652 |
| | 9:54:00 | 9:54:00 | | 43 | 47.5 | 40.4 | 9:08:15 PM | 53 | 199526.2315 |
| | 9:55:00 | 9:55:00 | | 44.9 | 52.5 | 40.3 | 9:09:15 PM | 54.9 | 309029.5433 |
| | 9:56:00 | 9:56:00 | | 45 | 50.5 | 40.9 | 9:10:15 PM | 55 | 316227.766 |
| | 9:57:00 | 9:57:00 | | 43.3 | 46.7 | 40.5 | 9:11:15 PM | 53.3 | 213796.209 |
| | 9:58:00 | 9:58:00 | | 42.9 | 46.3 | 40.1 | 9:12:15 PM | 52.9 | 194984.46 |
| | 9:59:00 | 9:59:00 | | 43.2 | 48.8 | 40.9 | 9:13:15 PM | 53.2 | 208929.6131 |
| | 10:00:00 | 10:00:00 | | 42.1 | 46.1 | 39.8 | 9:14:15 PM | 52.1 | 162181.0097 |
| | 10:01:00 | 10:01:00 | | 41.4 | 47.1 | 38.5 | 9:15:15 PM | 51.4 | 138038.4265 |
| | 10:02:00 | 10:02:00 | | 43 | 47 | 39.2 | 9:16:15 PM | 53 | 199526.2315 |
| | 10:03:00 | 10:03:00 | | 41.2 | 44.9 | 38.9 | 9:17:15 PM | 51.2 | 131825.6739 |
| | 10:04:00 | 10:04:00 | | 40.2 | 46.2 | 38.1 | 9:18:15 PM | 50.2 | 104712.8548 |
| | 10:05:00 | 10:05:00 | | 43.2 | 48.3 | 40.2 | 9:19:15 PM | 53.2 | 208929.6131 |
| | 10:06:00 | 10:06:00 | | 41.5 | 46.7 | 39.7 | 9:20:15 PM | 51.5 | 141253.7545 |
| | 10:07:00 | 10:07:00 | | 39.9 | 44.7 | 38.6 | 9:21:15 PM | 49.9 | 97723.7221 |
| | 10:08:00 | 10:08:00 | | 41.5 | 46.7 | 38.4 | 9:22:15 PM | 51.5 | 141253.7545 |
| | 10:09:00 | 10:09:00 | | 41.4 | 44.6 | 39 | 9:23:15 PM | 51.4 | 138038.4265 |
| | 10:10:00 | 10:10:00 | | 44 | 51 | 40.2 | 9:24:15 PM | 54 | 251188.6432 |
| | 10:11:00 | 10:11:00 | | 41.7 | 45.8 | 39 | 9:25:15 PM | 51.7 | 147910.8388 |
| | 10:12:00 | 10:12:00 | | 40.4 | 43.2 | 38.3 | 9:26:15 PM | 50.4 | 109647.8196 |
| | 10:13:00 | 10:13:00 | | 42.5 | 47.7 | 38.8 | 9:27:15 PM | 52.5 | 177827.941 |
| | 10:14:00 | 10:14:00 | | 41.2 | 43.4 | 38.3 | 9:28:15 PM | 51.2 | 131825.6739 |
| | 10:15:00 | 10:15:00 | | 42.4 | 46.6 | 39.6 | 9:29:15 PM | 52.4 | 173780.0829 |
| | 10:16:00 | 10:16:00 | | 41.2 | 45 | 38.4 | 9:30:15 PM | 51.2 | 131825.6739 |
| | 10:17:00 | 10:17:00 | | 42.5 | 46.9 | 38.5 | 9:31:15 PM | 52.5 | 177827.941 |
| | 10:18:00 | 10:18:00 | | 42.3 | 48.6 | 37.9 | 9:32:15 PM | 52.3 | 169824.3652 |
| | 10:19:00 | 10:19:00 | | 42.8 | 47.3 | 39.1 | 9:33:15 PM | 52.8 | 190546.0718 |
| | 10:20:00 | 10:20:00 | | 40.8 | 46.5 | 37.5 | 9:34:15 PM | 50.8 | 120226.4435 |
| | 10:21:00 | 10:21:00 | | 41.1 | 44.3 | 38 | 9:35:15 PM | 51.1 | 128824.9552 |
| | 10:22:00 | 10:22:00 | | 41.2 | 47.3 | 37.4 | 9:36:15 PM | 51.2 | 131825.6739 |
| | 10:23:00 | 10:23:00 | | 41.1 | 44.9 | 38.1 | 9:37:15 PM | 51.1 | 128824.9552 |
| | 10:24:00 | 10:24:00 | | 40.6 | 43.1 | 38.5 | 9:38:15 PM | 50.6 | 114815.3621 |
| | 10:25:00 | 10:25:00 | | 41.5 | 47 | 38.5 | 9:39:15 PM | 51.5 | 141253.7545 |
| | 10:26:00 | 10:26:00 | | 40.6 | 44.8 | 38.3 | 9:40:15 PM | 50.6 | 114815.3621 |
| | 10:27:00 | 10:27:00 | | 40.8 | 44.7 | 37.5 | 9:41:15 PM | 50.8 | 120226.4435 |
| | 10:28:00 | 10:28:00 | | 41.2 | 44.2 | 38.7 | 9:42:15 PM | 51.2 | 131825.6739 |
| | 10:29:00 | 10:29:00 | | 39.9 | 42.4 | 38.2 | 9:43:15 PM | 49.9 | 97723.7221 |
| | 10:30:00 | 10:30:00 | | 41.8 | 45.7 | 39 | 9:44:15 PM | 51.8 | 151356.1248 |
| | 10:31:00 | 10:31:00 | | 42.8 | 49.3 | 38.9 | 9:45:15 PM | 52.8 | 190546.0718 |
| | 10:32:00 | 10:32:00 | | 43.2 | 48.4 | 38.7 | 9:46:15 PM | 53.2 | 208929.6131 |
| | 10:33:00 | 10:33:00 | | 43.3 | 49.4 | 38.7 | 9:47:15 PM | 53.3 | 213796.209 |
| | 10:34:00 | 10:34:00 | | 41.7 | 44.9 | 38.8 | 9:48:15 PM | 51.7 | 147910.8388 |
| | 10:35:00 | 10:35:00 | | 42.2 | 45.5 | 40.5 | 9:49:15 PM | 52.2 | 165958.6907 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 10:36:00 | 10:36:00 | | 45.8 | 51.3 | 40.7 | 9:50:15 PM | 55.8 | 380189.3963 |
| | 10:37:00 | 10:37:00 | | 43 | 48.3 | 39.9 | 9:51:15 PM | 53 | 199526.2315 |
| | 10:38:00 | 10:38:00 | | 46.8 | 53.5 | 40.1 | 9:52:15 PM | 56.8 | 478630.0923 |
| | 10:39:00 | 10:39:00 | | 49.6 | 58.5 | 40.8 | 9:53:15 PM | 59.6 | 912010.8394 |
| | 10:40:00 | 10:40:00 | | 49.6 | 55.1 | 42.3 | 9:54:15 PM | 59.6 | 912010.8394 |
| | 10:41:00 | 10:41:00 | | 44 | 52.7 | 39 | 9:55:15 PM | 54 | 251188.6432 |
| | 10:42:00 | 10:42:00 | | 41.1 | 45.5 | 37.5 | 9:56:15 PM | 51.1 | 128824.9552 |
| | 10:43:00 | 10:43:00 | | 41.8 | 48.1 | 38.6 | 9:57:15 PM | 51.8 | 151356.1248 |
| | 10:44:00 | 10:44:00 | | 43.5 | 49.6 | 38.8 | 9:58:15 PM | 53.5 | 223872.1139 |
| | 10:45:00 | 10:45:00 | | 42.1 | 47.7 | 37.5 | 9:59:15 PM | 52.1 | 162181.0097 |
| | 10:46:00 | 10:46:00 | | 40.8 | 43.3 | 37.2 | 10:00:15 PM | 50.8 | 120226.4435 |
| | 10:47:00 | 10:47:00 | | 43.4 | 48.4 | 39.3 | 10:01:15 PM | 53.4 | 218776.1624 |
| | 10:48:00 | 10:48:00 | | 43.6 | 49.4 | 39.4 | 10:02:15 PM | 53.6 | 229086.7653 |
| | 10:49:00 | 10:49:00 | | 42.1 | 47.2 | 37.6 | 10:03:15 PM | 52.1 | 162181.0097 |
| | 10:50:00 | 10:50:00 | | 42.7 | 49.3 | 38.6 | 10:04:15 PM | 52.7 | 186208.7137 |
| | 10:51:00 | 10:51:00 | | 41.8 | 47.8 | 37.9 | 10:05:15 PM | 51.8 | 151356.1248 |
| | 10:52:00 | 10:52:00 | | 40.8 | 43.9 | 38.1 | 10:06:15 PM | 50.8 | 120226.4435 |
| | 10:53:00 | 10:53:00 | | 38.4 | 41.1 | 36 | 10:07:15 PM | 48.4 | 69183.09709 |
| | 10:54:00 | 10:54:00 | | 39 | 41.1 | 37.5 | 10:08:15 PM | 49 | 79432.82347 |
| | 10:55:00 | 10:55:00 | | 39.1 | 43.3 | 36.6 | 10:09:15 PM | 49.1 | 81283.05162 |
| | 10:56:00 | 10:56:00 | | 39.8 | 43.3 | 36.9 | 10:10:15 PM | 49.8 | 95499.2586 |
| | 10:57:00 | 10:57:00 | | 40.2 | 44.1 | 37.3 | 10:11:15 PM | 50.2 | 104712.8548 |
| | 10:58:00 | 10:58:00 | | 39.8 | 45.4 | 36.8 | 10:12:15 PM | 49.8 | 95499.2586 |
| | 10:59:00 | 10:59:00 | | 39.7 | 43.8 | 36.8 | 10:13:15 PM | 49.7 | 93325.43008 |
| | 11:00:00 | 11:00:00 | | 41.6 | 48.8 | 38.2 | 10:14:15 PM | 51.6 | 144543.9771 |
| | 11:01:00 | 11:01:00 | | 41.8 | 47.9 | 38.6 | 10:15:15 PM | 51.8 | 151356.1248 |
| | 11:02:00 | 11:02:00 | | 45.4 | 52.7 | 40.4 | 10:16:15 PM | 55.4 | 346736.8505 |
| | 11:03:00 | 11:03:00 | | 44.1 | 50.4 | 37.8 | 10:17:15 PM | 54.1 | 257039.5783 |
| | 11:04:00 | 11:04:00 | | 43.4 | 49.4 | 38.9 | 10:18:15 PM | 53.4 | 218776.1624 |
| | 11:05:00 | 11:05:00 | | 44.2 | 49.2 | 39.4 | 10:19:15 PM | 54.2 | 263026.7992 |
| | 11:06:00 | 11:06:00 | | 41.8 | 46.6 | 39 | 10:20:15 PM | 51.8 | 151356.1248 |
| | 11:07:00 | 11:07:00 | | 46.5 | 54 | 39.5 | 10:21:15 PM | 56.5 | 446683.5922 |
| | 11:08:00 | 11:08:00 | | 45.4 | 53.5 | 39.8 | 10:22:15 PM | 55.4 | 346736.8505 |
| | 11:09:00 | 11:09:00 | | 46.5 | 53.5 | 39.9 | 10:23:15 PM | 56.5 | 446683.5922 |
| | 11:10:00 | 11:10:00 | | 44.7 | 51.4 | 40.9 | 10:24:15 PM | 54.7 | 295120.9227 |
| | 11:11:00 | 11:11:00 | | 44.4 | 49.7 | 40.5 | 10:25:15 PM | 54.4 | 275422.8703 |
| | 11:12:00 | 11:12:00 | | 43.7 | 46.3 | 39.8 | 10:26:15 PM | 53.7 | 234422.8815 |
| | 11:13:00 | 11:13:00 | | 46.9 | 56.7 | 40.2 | 10:27:15 PM | 56.9 | 489778.8194 |
| | 11:14:00 | 11:14:00 | | 44.3 | 49.3 | 40.8 | 10:28:15 PM | 54.3 | 269153.4804 |
| | 11:15:00 | 11:15:00 | | 42.3 | 46.6 | 40.3 | 10:29:15 PM | 52.3 | 169824.3652 |
| | 11:16:00 | 11:16:00 | | 43.9 | 48.9 | 40.9 | 10:30:15 PM | 53.9 | 245470.8916 |
| | 11:17:00 | 11:17:00 | | 43 | 47.6 | 40.7 | 10:31:15 PM | 53 | 199526.2315 |
| | 11:18:00 | 11:18:00 | | 42.8 | 51.2 | 39.7 | 10:32:15 PM | 52.8 | 190546.0718 |
| | 11:19:00 | 11:19:00 | | 44.3 | 51.8 | 39.8 | 10:33:15 PM | 54.3 | 269153.4804 |
| | 11:20:00 | 11:20:00 | | 45 | 51.5 | 38.7 | 10:34:15 PM | 55 | 316227.766 |
| | 11:21:00 | 11:21:00 | | 44.8 | 51 | 40.1 | 10:35:15 PM | 54.8 | 301995.172 |
| | 11:22:00 | 11:22:00 | | 48.3 | 57.8 | 40.7 | 10:36:15 PM | 58.3 | 676082.9754 |
| | 11:23:00 | 11:23:00 | | 45.4 | 54 | 39.1 | 10:37:15 PM | 55.4 | 346736.8505 |
| | 11:24:00 | 11:24:00 | | 44.2 | 53.5 | 39.2 | 10:38:15 PM | 54.2 | 263026.7992 |
| | 11:25:00 | 11:25:00 | | 42.1 | 46.2 | 38.7 | 10:39:15 PM | 52.1 | 162181.0097 |
| | 11:26:00 | 11:26:00 | | 44 | 51.1 | 38.9 | 10:40:15 PM | 54 | 251188.6432 |
| | 11:27:00 | 11:27:00 | | 42.4 | 46.2 | 38.9 | 10:41:15 PM | 52.4 | 173780.0829 |
| | 11:28:00 | 11:28:00 | | 41.4 | 45.1 | 38.2 | 10:42:15 PM | 51.4 | 138038.4265 |
| | 11:29:00 | 11:29:00 | | 39.4 | 41.4 | 38.2 | 10:43:15 PM | 49.4 | 87096.359 |
| | 11:30:00 | 11:30:00 | | 38.7 | 40.8 | 37.2 | 10:44:15 PM | 48.7 | 74131.02413 |
| | 11:31:00 | 11:31:00 | | 39.1 | 41 | 37.9 | 10:45:15 PM | 49.1 | 81283.05162 |
| | 11:32:00 | 11:32:00 | | 41.7 | 45.6 | 39.4 | 10:46:15 PM | 51.7 | 147910.8388 |
| | 11:33:00 | 11:33:00 | | 42.4 | 47.3 | 39 | 10:47:15 PM | 52.4 | 173780.0829 |
| | 11:34:00 | 11:34:00 | | 40.3 | 43.1 | 38.3 | 10:48:15 PM | 50.3 | 107151.9305 |
| | 11:35:00 | 11:35:00 | | 41.2 | 45.4 | 39 | 10:49:15 PM | 51.2 | 131825.6739 |
| | 11:36:00 | 11:36:00 | | 40.2 | 43.6 | 38.8 | 10:50:15 PM | 50.2 | 104712.8548 |
| | 11:37:00 | 11:37:00 | | 40.9 | 46.6 | 38.3 | 10:51:15 PM | 50.9 | 123026.8771 |
| | 11:38:00 | 11:38:00 | | 40.1 | 44.6 | 38.4 | 10:52:15 PM | 50.1 | 102329.2992 |
| | 11:39:00 | 11:39:00 | | 39.8 | 42.2 | 38.3 | 10:53:15 PM | 49.8 | 95499.2586 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 11:40:00 | 11:40:00 | | 38.2 | 40.5 | 37.2 | 10:54:15 PM | 48.2 | 66069.3448 |
| | 11:41:00 | 11:41:00 | | 38.7 | 41.1 | 37.4 | 10:55:15 PM | 48.7 | 74131.02413 |
| | 11:42:00 | 11:42:00 | | 37.9 | 38.8 | 37.1 | 10:56:15 PM | 47.9 | 61659.50019 |
| | 11:43:00 | 11:43:00 | | 38.6 | 42.6 | 37.2 | 10:57:15 PM | 48.6 | 72443.59601 |
| | 11:44:00 | 11:44:00 | | 37.9 | 40.3 | 36.7 | 10:58:15 PM | 47.9 | 61659.50019 |
| | 11:45:00 | 11:45:00 | | 38.3 | 40.6 | 36.9 | 10:59:15 PM | 48.3 | 67608.29754 |
| | 11:46:00 | 11:46:00 | | 37.3 | 40 | 36 | 11:00:15 PM | 47.3 | 53703.17964 |
| | 11:47:00 | 11:47:00 | | 37.6 | 39 | 36.7 | 11:01:15 PM | 47.6 | 57543.99373 |
| | 11:48:00 | 11:48:00 | | 38.8 | 41.6 | 37.2 | 11:02:15 PM | 48.8 | 75857.7575 |
| | 11:49:00 | 11:49:00 | | 40.3 | 45.6 | 37.9 | 11:03:15 PM | 50.3 | 107151.9305 |
| | 11:50:00 | 11:50:00 | | 39.7 | 44.7 | 37.8 | 11:04:15 PM | 49.7 | 93325.43008 |
| | 11:51:00 | 11:51:00 | | 39.3 | 43.3 | 37.5 | 11:05:15 PM | 49.3 | 85113.80382 |
| | 11:52:00 | 11:52:00 | | 39.8 | 42.2 | 37.9 | 11:06:15 PM | 49.8 | 95499.2586 |
| | 11:53:00 | 11:53:00 | | 39.7 | 41.8 | 38 | 11:07:15 PM | 49.7 | 93325.43008 |
| | 11:54:00 | 11:54:00 | | 41.3 | 43.8 | 39.4 | 11:08:15 PM | 51.3 | 134896.2883 |
| | 11:55:00 | 11:55:00 | | 39 | 41.3 | 37.1 | 11:09:15 PM | 49 | 79432.82347 |
| | 11:56:00 | 11:56:00 | | 39 | 41 | 37.6 | 11:10:15 PM | 49 | 79432.82347 |
| | 11:57:00 | 11:57:00 | | 40.4 | 46.6 | 38 | 11:11:15 PM | 50.4 | 109647.8196 |
| | 11:58:00 | 11:58:00 | | 42.3 | 49.1 | 38.2 | 11:12:15 PM | 52.3 | 169824.3652 |
| | 11:59:00 | 11:59:00 | | 44.7 | 50.4 | 39.5 | 11:13:15 PM | 54.7 | 295120.9227 |
| | 12:00:00 | 12:00:00 | | 42.6 | 49.3 | 39.6 | 11:14:15 PM | 52.6 | 181970.0859 |
| | 12:01:00 | 12:01:00 | | 44.1 | 47.1 | 40.9 | 11:15:15 PM | 54.1 | 257039.5783 |
| | 12:02:00 | 12:02:00 | | 45 | 48.9 | 40.8 | 11:16:15 PM | 55 | 316227.766 |
| | 12:03:00 | 12:03:00 | | 43.2 | 47.7 | 39.5 | 11:17:15 PM | 53.2 | 208929.6131 |
| | 12:04:00 | 12:04:00 | | 45.2 | 53 | 39.3 | 11:18:15 PM | 55.2 | 331131.1215 |
| | 12:05:00 | 12:05:00 | | 41.1 | 46.1 | 38.4 | 11:19:15 PM | 51.1 | 128824.9552 |
| | 12:06:00 | 12:06:00 | | 43.6 | 49.5 | 39.4 | 11:20:15 PM | 53.6 | 229086.7653 |
| | 12:07:00 | 12:07:00 | | 45.6 | 54.6 | 40.1 | 11:21:15 PM | 55.6 | 363078.0548 |
| | 12:08:00 | 12:08:00 | | 41.2 | 47.1 | 38 | 11:22:15 PM | 51.2 | 131825.6739 |
| | 12:09:00 | 12:09:00 | | 42.1 | 47.6 | 38.5 | 11:23:15 PM | 52.1 | 162181.0097 |
| | 12:10:00 | 12:10:00 | | 40.3 | 43.3 | 38.9 | 11:24:15 PM | 50.3 | 107151.9305 |
| | 12:11:00 | 12:11:00 | | 43.4 | 52.9 | 38.8 | 11:25:15 PM | 53.4 | 218776.1624 |
| | 12:12:00 | 12:12:00 | | 41.9 | 47.5 | 38.4 | 11:26:15 PM | 51.9 | 154881.6619 |
| | 12:13:00 | 12:13:00 | | 41.6 | 46.6 | 38.9 | 11:27:15 PM | 51.6 | 144543.9771 |
| | 12:14:00 | 12:14:00 | | 41.9 | 46 | 38.8 | 11:28:15 PM | 51.9 | 154881.6619 |
| | 12:15:00 | 12:15:00 | | 40.1 | 42.3 | 38.4 | 11:29:15 PM | 50.1 | 102329.2992 |
| | 12:16:00 | 12:16:00 | | 40.3 | 48.9 | 37.3 | 11:30:15 PM | 50.3 | 107151.9305 |
| | 12:17:00 | 12:17:00 | | 42.1 | 50 | 37.8 | 11:31:15 PM | 52.1 | 162181.0097 |
| | 12:18:00 | 12:18:00 | | 40.5 | 49.6 | 36.9 | 11:32:15 PM | 50.5 | 112201.8454 |
| | 12:19:00 | 12:19:00 | | 39.1 | 43 | 37.6 | 11:33:15 PM | 49.1 | 81283.05162 |
| | 12:20:00 | 12:20:00 | | 42.8 | 50.4 | 38.2 | 11:34:15 PM | 52.8 | 190546.0718 |
| | 12:21:00 | 12:21:00 | | 40.4 | 43.5 | 39 | 11:35:15 PM | 50.4 | 109647.8196 |
| | 12:22:00 | 12:22:00 | | 42.5 | 47.3 | 39.8 | 11:36:15 PM | 52.5 | 177827.941 |
| | 12:23:00 | 12:23:00 | | 41.8 | 46.1 | 39.7 | 11:37:15 PM | 51.8 | 151356.1248 |
| | 12:24:00 | 12:24:00 | | 40.8 | 45.2 | 39 | 11:38:15 PM | 50.8 | 120226.4435 |
| | 12:25:00 | 12:25:00 | | 42 | 47.4 | 39 | 11:39:15 PM | 52 | 158489.3192 |
| | 12:26:00 | 12:26:00 | | 45.8 | 56.6 | 39.1 | 11:40:15 PM | 55.8 | 380189.3963 |
| | 12:27:00 | 12:27:00 | | 40.9 | 45.3 | 38.6 | 11:41:15 PM | 50.9 | 123026.8771 |
| | 12:28:00 | 12:28:00 | | 39.8 | 43.1 | 38.1 | 11:42:15 PM | 49.8 | 95499.2586 |
| | 12:29:00 | 12:29:00 | | 40.5 | 45.4 | 37.2 | 11:43:15 PM | 50.5 | 112201.8454 |
| | 12:30:00 | 12:30:00 | | 39.6 | 43.1 | 37.4 | 11:44:15 PM | 49.6 | 91201.08394 |
| | 12:31:00 | 12:31:00 | | 43.8 | 50.2 | 38.7 | 11:45:15 PM | 53.8 | 239883.2919 |
| | 12:32:00 | 12:32:00 | | 39.4 | 42.2 | 37.9 | 11:46:15 PM | 49.4 | 87096.359 |
| | 12:33:00 | 12:33:00 | | 39.9 | 42.8 | 37.4 | 11:47:15 PM | 49.9 | 97723.7221 |
| | 12:34:00 | 12:34:00 | | 39.1 | 42.3 | 37.6 | 11:48:15 PM | 49.1 | 81283.05162 |
| | 12:35:00 | 12:35:00 | | 38.1 | 41.5 | 36.6 | 11:49:15 PM | 48.1 | 64565.4229 |
| | 12:36:00 | 12:36:00 | | 39.3 | 44.2 | 36.7 | 11:50:15 PM | 49.3 | 85113.80382 |
| | 12:37:00 | 12:37:00 | | 38.8 | 42.4 | 37.1 | 11:51:15 PM | 48.8 | 75857.7575 |
| | 12:38:00 | 12:38:00 | | 39.9 | 45.4 | 37.5 | 11:52:15 PM | 49.9 | 97723.7221 |
| | 12:39:00 | 12:39:00 | | 40.9 | 44.5 | 38.6 | 11:53:15 PM | 50.9 | 123026.8771 |
| | 12:40:00 | 12:40:00 | | 40.1 | 42.4 | 38 | 11:54:15 PM | 50.1 | 102329.2992 |
| | 12:41:00 | 12:41:00 | | 42.4 | 50.6 | 38.1 | 11:55:15 PM | 52.4 | 173780.0829 |
| | 12:42:00 | 12:42:00 | | 42.1 | 48.2 | 38.2 | 11:56:15 PM | 52.1 | 162181.0097 |
| | 12:43:00 | 12:43:00 | | 40.8 | 48 | 38.6 | 11:57:15 PM | 50.8 | 120226.4435 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 12:44:00 | 12:44:00 | | 41.7 | 45.6 | 38.2 | 11:58:15 PM | 51.7 | 147910.8388 |
| | 12:45:00 | 12:45:00 | | 42.5 | 50.9 | 37.4 | 11:59:15 PM | 52.5 | 177827.941 |
| | 12:46:00 | 12:46:00 | | 37.3 | 41.7 | 35.5 | 12:00:15 AM | 47.3 | 53703.17964 |
| | 12:47:00 | 12:47:00 | | 36.3 | 38.2 | 35.2 | 12:01:15 AM | 46.3 | 42657.95188 |
| | 12:48:00 | 12:48:00 | | 37.3 | 39.3 | 35.4 | 12:02:15 AM | 47.3 | 53703.17964 |
| | 12:49:00 | 12:49:00 | | 38.4 | 42 | 36.7 | 12:03:15 AM | 48.4 | 69183.09709 |
| | 12:50:00 | 12:50:00 | | 40.1 | 46.3 | 36.3 | 12:04:15 AM | 50.1 | 102329.2992 |
| | 12:51:00 | 12:51:00 | | 39.8 | 44.2 | 36.7 | 12:05:15 AM | 49.8 | 95499.2586 |
| | 12:52:00 | 12:52:00 | | 40.2 | 49.2 | 36.9 | 12:06:15 AM | 50.2 | 104712.8548 |
| | 12:53:00 | 12:53:00 | | 41.3 | 51.5 | 37.7 | 12:07:15 AM | 51.3 | 134896.2883 |
| | 12:54:00 | 12:54:00 | | 38.5 | 41.5 | 37 | 12:08:15 AM | 48.5 | 70794.57844 |
| | 12:55:00 | 12:55:00 | | 41.3 | 48.5 | 37.6 | 12:09:15 AM | 51.3 | 134896.2883 |
| | 12:56:00 | 12:56:00 | | 40.1 | 46.3 | 37.1 | 12:10:15 AM | 50.1 | 102329.2992 |
| | 12:57:00 | 12:57:00 | | 41.1 | 45.8 | 37.6 | 12:11:15 AM | 51.1 | 128824.9552 |
| | 12:58:00 | 12:58:00 | | 41.6 | 47.7 | 37.6 | 12:12:15 AM | 51.6 | 144543.9771 |
| | 12:59:00 | 12:59:00 | | 41.2 | 43.6 | 38.5 | 12:13:15 AM | 51.2 | 131825.6739 |
| | 13:00:00 | 13:00:00 | | 39.9 | 43 | 38.4 | 12:14:15 AM | 49.9 | 97723.7221 |
| | 13:01:00 | 13:01:00 | | 40.6 | 45.3 | 37.9 | 12:15:15 AM | 50.6 | 114815.3621 |
| | 13:02:00 | 13:02:00 | | 41 | 45 | 38.4 | 12:16:15 AM | 51 | 125892.5412 |
| | 13:03:00 | 13:03:00 | | 42.2 | 47.3 | 37.5 | 12:17:15 AM | 52.2 | 165958.6907 |
| | 13:04:00 | 13:04:00 | | 42 | 46.1 | 37.2 | 12:18:15 AM | 52 | 158489.3192 |
| | 13:05:00 | 13:05:00 | | 42.4 | 46.4 | 37.6 | 12:19:15 AM | 52.4 | 173780.0829 |
| | 13:06:00 | 13:06:00 | | 40.5 | 45.2 | 37.6 | 12:20:15 AM | 50.5 | 112201.8454 |
| | 13:07:00 | 13:07:00 | | 39.9 | 42.7 | 38 | 12:21:15 AM | 49.9 | 97723.7221 |
| | 13:08:00 | 13:08:00 | | 41.1 | 45.8 | 38.1 | 12:22:15 AM | 51.1 | 128824.9552 |
| | 13:09:00 | 13:09:00 | | 43.6 | 53.5 | 38.5 | 12:23:15 AM | 53.6 | 229086.7653 |
| | 13:10:00 | 13:10:00 | | 41.1 | 45.1 | 37.7 | 12:24:15 AM | 51.1 | 128824.9552 |
| | 13:11:00 | 13:11:00 | | 43.2 | 47.7 | 38 | 12:25:15 AM | 53.2 | 208929.6131 |
| | 13:12:00 | 13:12:00 | | 42.6 | 47.4 | 37.8 | 12:26:15 AM | 52.6 | 181970.0859 |
| | 13:13:00 | 13:13:00 | | 40.2 | 47.8 | 37.6 | 12:27:15 AM | 50.2 | 104712.8548 |
| | 13:14:00 | 13:14:00 | | 43.4 | 49.7 | 39 | 12:28:15 AM | 53.4 | 218776.1624 |
| | 13:15:00 | 13:15:00 | | 43.4 | 48.5 | 39.8 | 12:29:15 AM | 53.4 | 218776.1624 |
| | 13:16:00 | 13:16:00 | | 41.9 | 46.3 | 39 | 12:30:15 AM | 51.9 | 154881.6619 |
| | 13:17:00 | 13:17:00 | | 43.3 | 49 | 39.4 | 12:31:15 AM | 53.3 | 213796.209 |
| | 13:18:00 | 13:18:00 | | 43.7 | 48.2 | 39.4 | 12:32:15 AM | 53.7 | 234422.8815 |
| | 13:19:00 | 13:19:00 | | 45.6 | 51.5 | 41.4 | 12:33:15 AM | 55.6 | 363078.0548 |
| | 13:20:00 | 13:20:00 | | 46.5 | 54.2 | 40.8 | 12:34:15 AM | 56.5 | 446683.5922 |
| | 13:21:00 | 13:21:00 | | 45.4 | 48.3 | 41.2 | 12:35:15 AM | 55.4 | 346736.8505 |
| | 13:22:00 | 13:22:00 | | 48 | 55 | 41.8 | 12:36:15 AM | 58 | 630957.3445 |
| | 13:23:00 | 13:23:00 | | 47.1 | 53.1 | 43 | 12:37:15 AM | 57.1 | 512861.384 |
| | 13:24:00 | 13:24:00 | | 47.6 | 54.4 | 42.1 | 12:38:15 AM | 57.6 | 575439.9373 |
| | 13:25:00 | 13:25:00 | | 46.2 | 49.8 | 43.1 | 12:39:15 AM | 56.2 | 416869.3835 |
| | 13:26:00 | 13:26:00 | | 48.2 | 54.1 | 42.6 | 12:40:15 AM | 58.2 | 660693.448 |
| | 13:27:00 | 13:27:00 | | 47.3 | 51 | 43.5 | 12:41:15 AM | 57.3 | 537031.7964 |
| | 13:28:00 | 13:28:00 | | 45.5 | 52 | 41.8 | 12:42:15 AM | 55.5 | 354813.3892 |
| | 13:29:00 | 13:29:00 | | 45.8 | 53.7 | 41.6 | 12:43:15 AM | 55.8 | 380189.3963 |
| | 13:30:00 | 13:30:00 | | 45.4 | 52.8 | 41.1 | 12:44:15 AM | 55.4 | 346736.8505 |
| | 13:31:00 | 13:31:00 | | 44.5 | 49.8 | 41.4 | 12:45:15 AM | 54.5 | 281838.2931 |
| | 13:32:00 | 13:32:00 | | 43.1 | 47 | 39.8 | 12:46:15 AM | 53.1 | 204173.7945 |
| | 13:33:00 | 13:33:00 | | 43 | 47.2 | 39.5 | 12:47:15 AM | 53 | 199526.2315 |
| | 13:34:00 | 13:34:00 | | 45.1 | 48.8 | 40.4 | 12:48:15 AM | 55.1 | 323593.6569 |
| | 13:35:00 | 13:35:00 | | 46.6 | 51 | 42.9 | 12:49:15 AM | 56.6 | 457088.1896 |
| | 13:36:00 | 13:36:00 | | 46 | 49.9 | 41.4 | 12:50:15 AM | 56 | 398107.1706 |
| | 13:37:00 | 13:37:00 | | 42.1 | 44.8 | 38.9 | 12:51:15 AM | 52.1 | 162181.0097 |
| | 13:38:00 | 13:38:00 | | 43.3 | 50.4 | 40.2 | 12:52:15 AM | 53.3 | 213796.209 |
| | 13:39:00 | 13:39:00 | | 50.2 | 57.5 | 43.1 | 12:53:15 AM | 60.2 | 1047128.548 |
| | 13:40:00 | 13:40:00 | | 46.8 | 50.7 | 42.8 | 12:54:15 AM | 56.8 | 478630.0923 |
| | 13:41:00 | 13:41:00 | | 48.2 | 53.5 | 43.2 | 12:55:15 AM | 58.2 | 660693.448 |
| | 13:42:00 | 13:42:00 | | 46.5 | 51.9 | 43.2 | 12:56:15 AM | 56.5 | 446683.5922 |
| | 13:43:00 | 13:43:00 | | 46.1 | 50.7 | 42.9 | 12:57:15 AM | 56.1 | 407380.2778 |
| | 13:44:00 | 13:44:00 | | 46.7 | 51.3 | 42.2 | 12:58:15 AM | 56.7 | 467735.1413 |
| | 13:45:00 | 13:45:00 | | 44 | 47.9 | 40.2 | 12:59:15 AM | 54 | 251188.6432 |
| | 13:46:00 | 13:46:00 | | 45.6 | 49.6 | 42.4 | 1:00:15 AM | 55.6 | 363078.0548 |
| | 13:47:00 | 13:47:00 | | 43.9 | 50.1 | 40.3 | 1:01:15 AM | 53.9 | 245470.8916 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 13:48:00 | 13:48:00 | | 44.3 | 49.4 | 39.8 | 1:02:15 AM | 54.3 | 269153.4804 |
| | 13:49:00 | 13:49:00 | | 50.8 | 63.1 | 40.7 | 1:03:15 AM | 60.8 | 1202264.435 |
| | 13:50:00 | 13:50:00 | | 44.6 | 47.8 | 42.5 | 1:04:15 AM | 54.6 | 288403.1503 |
| | 13:51:00 | 13:51:00 | | 45.9 | 49.7 | 42.8 | 1:05:15 AM | 55.9 | 389045.145 |
| | 13:52:00 | 13:52:00 | | 45.3 | 53.7 | 41.3 | 1:06:15 AM | 55.3 | 338844.1561 |
| | 13:53:00 | 13:53:00 | | 45.2 | 50.5 | 39.4 | 1:07:15 AM | 55.2 | 331131.1215 |
| | 13:54:00 | 13:54:00 | | 47.7 | 55.5 | 42.1 | 1:08:15 AM | 57.7 | 588843.6554 |
| | 13:55:00 | 13:55:00 | | 46.3 | 51.1 | 41.9 | 1:09:15 AM | 56.3 | 426579.5188 |
| | 13:56:00 | 13:56:00 | | 43.1 | 46.9 | 39.3 | 1:10:15 AM | 53.1 | 204173.7945 |
| | 13:57:00 | 13:57:00 | | 40.3 | 41.7 | 39.1 | 1:11:15 AM | 50.3 | 107151.9305 |
| | 13:58:00 | 13:58:00 | | 42.4 | 48.5 | 39.2 | 1:12:15 AM | 52.4 | 173780.0829 |
| | 13:59:00 | 13:59:00 | | 47.9 | 56.7 | 39.4 | 1:13:15 AM | 57.9 | 616595.0019 |
| | 14:00:00 | 14:00:00 | | 46.8 | 54.9 | 40.1 | 1:14:15 AM | 56.8 | 478630.0923 |
| | 14:01:00 | 14:01:00 | | 46 | 54.1 | 39 | 1:15:15 AM | 56 | 398107.1706 |
| | 14:02:00 | 14:02:00 | | 44.6 | 54.4 | 39.3 | 1:16:15 AM | 54.6 | 288403.1503 |
| | 14:03:00 | 14:03:00 | | 45 | 51.9 | 38.6 | 1:17:15 AM | 55 | 316227.766 |
| | 14:04:00 | 14:04:00 | | 42.7 | 47.8 | 39.2 | 1:18:15 AM | 52.7 | 186208.7137 |
| | 14:05:00 | 14:05:00 | | 44.1 | 48.6 | 38.9 | 1:19:15 AM | 54.1 | 257039.5783 |
| | 14:06:00 | 14:06:00 | | 43.6 | 48.7 | 39.1 | 1:20:15 AM | 53.6 | 229086.7653 |
| | 14:07:00 | 14:07:00 | | 43.6 | 47.6 | 40 | 1:21:15 AM | 53.6 | 229086.7653 |
| | 14:08:00 | 14:08:00 | | 41.6 | 45.7 | 38.7 | 1:22:15 AM | 51.6 | 144543.9771 |
| | 14:09:00 | 14:09:00 | | 47.6 | 56.1 | 39.7 | 1:23:15 AM | 57.6 | 575439.9373 |
| | 14:10:00 | 14:10:00 | | 45 | 52.4 | 40.8 | 1:24:15 AM | 55 | 316227.766 |
| | 14:11:00 | 14:11:00 | | 43.9 | 48.2 | 40.8 | 1:25:15 AM | 53.9 | 245470.8916 |
| | 14:12:00 | 14:12:00 | | 42.1 | 45.8 | 38.5 | 1:26:15 AM | 52.1 | 162181.0097 |
| | 14:13:00 | 14:13:00 | | 43.2 | 47.9 | 39 | 1:27:15 AM | 53.2 | 208929.6131 |
| | 14:14:00 | 14:14:00 | | 42.1 | 48.7 | 38.1 | 1:28:15 AM | 52.1 | 162181.0097 |
| | 14:15:00 | 14:15:00 | | 43.4 | 49.2 | 38.2 | 1:29:15 AM | 53.4 | 218776.1624 |
| | 14:16:00 | 14:16:00 | | 42.7 | 47.4 | 38.7 | 1:30:15 AM | 52.7 | 186208.7137 |
| | 14:17:00 | 14:17:00 | | 41.7 | 47.5 | 38.3 | 1:31:15 AM | 51.7 | 147910.8388 |
| | 14:18:00 | 14:18:00 | | 43.3 | 49.9 | 37.7 | 1:32:15 AM | 53.3 | 213796.209 |
| | 14:19:00 | 14:19:00 | | 44 | 52.1 | 38.6 | 1:33:15 AM | 54 | 251188.6432 |
| | 14:20:00 | 14:20:00 | | 40.7 | 48.8 | 36.6 | 1:34:15 AM | 50.7 | 117489.7555 |
| | 14:21:00 | 14:21:00 | | 38.6 | 41.1 | 36.4 | 1:35:15 AM | 48.6 | 72443.59601 |
| | 14:22:00 | 14:22:00 | | 39.9 | 44.8 | 37.2 | 1:36:15 AM | 49.9 | 97723.7221 |
| | 14:23:00 | 14:23:00 | | 38.7 | 43.4 | 36.4 | 1:37:15 AM | 48.7 | 74131.02413 |
| | 14:24:00 | 14:24:00 | | 37.6 | 41.8 | 35.8 | 1:38:15 AM | 47.6 | 57543.99373 |
| | 14:25:00 | 14:25:00 | | 39.7 | 45.2 | 36.8 | 1:39:15 AM | 49.7 | 93325.43008 |
| | 14:26:00 | 14:26:00 | | 37.6 | 40.2 | 35.7 | 1:40:15 AM | 47.6 | 57543.99373 |
| | 14:27:00 | 14:27:00 | | 37.9 | 42 | 36.2 | 1:41:15 AM | 47.9 | 61659.50019 |
| | 14:28:00 | 14:28:00 | | 37.2 | 39.1 | 35.8 | 1:42:15 AM | 47.2 | 52480.74602 |
| | 14:29:00 | 14:29:00 | | 37.1 | 39.5 | 35.3 | 1:43:15 AM | 47.1 | 51286.1384 |
| | 14:30:00 | 14:30:00 | | 37.6 | 41.7 | 35.5 | 1:44:15 AM | 47.6 | 57543.99373 |
| | 14:31:00 | 14:31:00 | | 39.2 | 46.7 | 36.1 | 1:45:15 AM | 49.2 | 83176.37711 |
| | 14:32:00 | 14:32:00 | | 38.7 | 43.7 | 36.1 | 1:46:15 AM | 48.7 | 74131.02413 |
| | 14:33:00 | 14:33:00 | | 37.9 | 43.2 | 35.9 | 1:47:15 AM | 47.9 | 61659.50019 |
| | 14:34:00 | 14:34:00 | | 40.4 | 48.4 | 35.7 | 1:48:15 AM | 50.4 | 109647.8196 |
| | 14:35:00 | 14:35:00 | | 38.4 | 43 | 36.2 | 1:49:15 AM | 48.4 | 69183.09709 |
| | 14:36:00 | 14:36:00 | | 37.7 | 43.9 | 35.7 | 1:50:15 AM | 47.7 | 58884.36554 |
| | 14:37:00 | 14:37:00 | | 38.6 | 44.7 | 35.3 | 1:51:15 AM | 48.6 | 72443.59601 |
| | 14:38:00 | 14:38:00 | | 40.7 | 48.2 | 36.4 | 1:52:15 AM | 50.7 | 117489.7555 |
| | 14:39:00 | 14:39:00 | | 38.4 | 43.5 | 35.5 | 1:53:15 AM | 48.4 | 69183.09709 |
| | 14:40:00 | 14:40:00 | | 38.1 | 41.9 | 35.6 | 1:54:15 AM | 48.1 | 64565.4229 |
| | 14:41:00 | 14:41:00 | | 37.5 | 41.6 | 35.8 | 1:55:15 AM | 47.5 | 56234.13252 |
| | 14:42:00 | 14:42:00 | | 36.9 | 38.4 | 35.8 | 1:56:15 AM | 46.9 | 48977.88194 |
| | 14:43:00 | 14:43:00 | | 37.9 | 40.5 | 36 | 1:57:15 AM | 47.9 | 61659.50019 |
| | 14:44:00 | 14:44:00 | | 36.8 | 38.9 | 35.8 | 1:58:15 AM | 46.8 | 47863.00923 |
| | 14:45:00 | 14:45:00 | | 38.1 | 42.3 | 36.3 | 1:59:15 AM | 48.1 | 64565.4229 |
| | 14:46:00 | 14:46:00 | | 38.2 | 40.5 | 36.1 | 2:00:15 AM | 48.2 | 66069.3448 |
| | 14:47:00 | 14:47:00 | | 37.1 | 39.6 | 35.7 | 2:01:15 AM | 47.1 | 51286.1384 |
| | 14:48:00 | 14:48:00 | | 36.9 | 40.6 | 35.4 | 2:02:15 AM | 46.9 | 48977.88194 |
| | 14:49:00 | 14:49:00 | | 37.2 | 40.1 | 35.8 | 2:03:15 AM | 47.2 | 52480.74602 |
| | 14:50:00 | 14:50:00 | | 37.1 | 38.7 | 35.9 | 2:04:15 AM | 47.1 | 51286.1384 |
| | 14:51:00 | 14:51:00 | | 37.8 | 39 | 36.5 | 2:05:15 AM | 47.8 | 60255.95861 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 14:52:00 | 14:52:00 | | 37.4 | 39.3 | 35.9 | 2:06:15 AM | 47.4 | 54954.08739 |
| | 14:53:00 | 14:53:00 | | 37.9 | 41.6 | 36.2 | 2:07:15 AM | 47.9 | 61659.50019 |
| | 14:54:00 | 14:54:00 | | 37.1 | 39.1 | 35.8 | 2:08:15 AM | 47.1 | 51286.1384 |
| | 14:55:00 | 14:55:00 | | 40.2 | 46.6 | 36.4 | 2:09:15 AM | 50.2 | 104712.8548 |
| | 14:56:00 | 14:56:00 | | 40.1 | 45.4 | 36.8 | 2:10:15 AM | 50.1 | 102329.2992 |
| | 14:57:00 | 14:57:00 | | 41.1 | 46.2 | 37.7 | 2:11:15 AM | 51.1 | 128824.9552 |
| | 14:58:00 | 14:58:00 | | 39.1 | 47.7 | 35.9 | 2:12:15 AM | 49.1 | 81283.05162 |
| | 14:59:00 | 14:59:00 | | 41.5 | 48.3 | 36.5 | 2:13:15 AM | 51.5 | 141253.7545 |
| | 15:00:00 | 15:00:00 | | 39.3 | 44.3 | 36.9 | 2:14:15 AM | 49.3 | 85113.80382 |
| | 15:01:00 | 15:01:00 | | 38.9 | 42.5 | 37.1 | 2:15:15 AM | 48.9 | 77624.71166 |
| | 15:02:00 | 15:02:00 | | 37.4 | 40 | 35.6 | 2:16:15 AM | 47.4 | 54954.08739 |
| | 15:03:00 | 15:03:00 | | 37 | 38.3 | 35.5 | 2:17:15 AM | 47 | 50118.72336 |
| | 15:04:00 | 15:04:00 | | 38.2 | 41.8 | 35.6 | 2:18:15 AM | 48.2 | 66069.3448 |
| | 15:05:00 | 15:05:00 | | 38.2 | 41 | 36.4 | 2:19:15 AM | 48.2 | 66069.3448 |
| | 15:06:00 | 15:06:00 | | 39.5 | 42.6 | 36.8 | 2:20:15 AM | 49.5 | 89125.09381 |
| | 15:07:00 | 15:07:00 | | 39.2 | 44.8 | 36.8 | 2:21:15 AM | 49.2 | 83176.37711 |
| | 15:08:00 | 15:08:00 | | 38.1 | 40.6 | 36.3 | 2:22:15 AM | 48.1 | 64565.4229 |
| | 15:09:00 | 15:09:00 | | 39.5 | 42.4 | 37.4 | 2:23:15 AM | 49.5 | 89125.09381 |
| | 15:10:00 | 15:10:00 | | 39 | 41.6 | 37.4 | 2:24:15 AM | 49 | 79432.82347 |
| | 15:11:00 | 15:11:00 | | 45 | 52.5 | 37.2 | 2:25:15 AM | 55 | 316227.766 |
| | 15:12:00 | 15:12:00 | | 43.7 | 47.3 | 40.4 | 2:26:15 AM | 53.7 | 234422.8815 |
| | 15:13:00 | 15:13:00 | | 41.1 | 42.5 | 39.7 | 2:27:15 AM | 51.1 | 128824.9552 |
| | 15:14:00 | 15:14:00 | | 41.2 | 43 | 39.6 | 2:28:15 AM | 51.2 | 131825.6739 |
| | 15:15:00 | 15:15:00 | | 44 | 46.1 | 41.7 | 2:29:15 AM | 54 | 251188.6432 |
| | 15:16:00 | 15:16:00 | | 45.2 | 49.1 | 43.6 | 2:30:15 AM | 55.2 | 331131.1215 |
| | 15:17:00 | 15:17:00 | | 44.7 | 49.1 | 43.1 | 2:31:15 AM | 54.7 | 295120.9227 |
| | 15:18:00 | 15:18:00 | | 41.8 | 43.9 | 39.5 | 2:32:15 AM | 51.8 | 151356.1248 |
| | 15:19:00 | 15:19:00 | | 42.4 | 44.7 | 39.8 | 2:33:15 AM | 52.4 | 173780.0829 |
| | 15:20:00 | 15:20:00 | | 41.6 | 44.6 | 38.8 | 2:34:15 AM | 51.6 | 144543.9771 |
| | 15:21:00 | 15:21:00 | | 42.2 | 46.3 | 40.4 | 2:35:15 AM | 52.2 | 165958.6907 |
| | 15:22:00 | 15:22:00 | | 41.5 | 45.3 | 38.9 | 2:36:15 AM | 51.5 | 141253.7545 |
| | 15:23:00 | 15:23:00 | | 39.6 | 41.3 | 38.1 | 2:37:15 AM | 49.6 | 91201.08394 |
| | 15:24:00 | 15:24:00 | | 40.1 | 43.5 | 37.9 | 2:38:15 AM | 50.1 | 102329.2992 |
| | 15:25:00 | 15:25:00 | | 40.9 | 42.9 | 38.8 | 2:39:15 AM | 50.9 | 123026.8771 |
| | 15:26:00 | 15:26:00 | | 39.2 | 41.3 | 36.9 | 2:40:15 AM | 49.2 | 83176.37711 |
| | 15:27:00 | 15:27:00 | | 37.2 | 38.9 | 35.9 | 2:41:15 AM | 47.2 | 52480.74602 |
| | 15:28:00 | 15:28:00 | | 37.3 | 39.7 | 36.4 | 2:42:15 AM | 47.3 | 53703.17964 |
| | 15:29:00 | 15:29:00 | | 36.9 | 38.8 | 35.3 | 2:43:15 AM | 46.9 | 48977.88194 |
| | 15:30:00 | 15:30:00 | | 38.5 | 39.6 | 37.2 | 2:44:15 AM | 48.5 | 70794.57844 |
| | 15:31:00 | 15:31:00 | | 38.4 | 39.7 | 36.6 | 2:45:15 AM | 48.4 | 69183.09709 |
| | 15:32:00 | 15:32:00 | | 37.2 | 39.2 | 36.3 | 2:46:15 AM | 47.2 | 52480.74602 |
| | 15:33:00 | 15:33:00 | | 38.3 | 40.2 | 36.3 | 2:47:15 AM | 48.3 | 67608.29754 |
| | 15:34:00 | 15:34:00 | | 39.3 | 41.9 | 38 | 2:48:15 AM | 49.3 | 85113.80382 |
| | 15:35:00 | 15:35:00 | | 38.8 | 41.4 | 37.3 | 2:49:15 AM | 48.8 | 75857.7575 |
| | 15:36:00 | 15:36:00 | | 38 | 42 | 36.1 | 2:50:15 AM | 48 | 63095.73445 |
| | 15:37:00 | 15:37:00 | | 38.3 | 42.4 | 36.4 | 2:51:15 AM | 48.3 | 67608.29754 |
| | 15:38:00 | 15:38:00 | | 38.3 | 43 | 35 | 2:52:15 AM | 48.3 | 67608.29754 |
| | 15:39:00 | 15:39:00 | | 36.1 | 37.3 | 35 | 2:53:15 AM | 46.1 | 40738.02778 |
| | 15:40:00 | 15:40:00 | | 36.6 | 38.7 | 35.2 | 2:54:15 AM | 46.6 | 45708.81896 |
| | 15:41:00 | 15:41:00 | | 37 | 38.4 | 35.8 | 2:55:15 AM | 47 | 50118.72336 |
| | 15:42:00 | 15:42:00 | | 39 | 41.3 | 37.1 | 2:56:15 AM | 49 | 79432.82347 |
| | 15:43:00 | 15:43:00 | | 38 | 40.7 | 35.7 | 2:57:15 AM | 48 | 63095.73445 |
| | 15:44:00 | 15:44:00 | | 35.6 | 37.3 | 34.8 | 2:58:15 AM | 45.6 | 36307.80548 |
| | 15:45:00 | 15:45:00 | | 37.2 | 38.6 | 36.3 | 2:59:15 AM | 47.2 | 52480.74602 |
| | 15:46:00 | 15:46:00 | | 37.1 | 39.7 | 35.5 | 3:00:15 AM | 47.1 | 51286.1384 |
| | 15:47:00 | 15:47:00 | | 36.7 | 39.4 | 34.7 | 3:01:15 AM | 46.7 | 46773.51413 |
| | 15:48:00 | 15:48:00 | | 36.3 | 40.9 | 34.7 | 3:02:15 AM | 46.3 | 42657.95188 |
| | 15:49:00 | 15:49:00 | | 36.2 | 38.6 | 33.7 | 3:03:15 AM | 46.2 | 41686.93835 |
| | 15:50:00 | 15:50:00 | | 36.3 | 39.8 | 33.6 | 3:04:15 AM | 46.3 | 42657.95188 |
| | 15:51:00 | 15:51:00 | | 38.9 | 41.7 | 36.9 | 3:05:15 AM | 48.9 | 77624.71166 |
| | 15:52:00 | 15:52:00 | | 43 | 48.5 | 37.7 | 3:06:15 AM | 53 | 199526.2315 |
| | 15:53:00 | 15:53:00 | | 39.6 | 48.2 | 36.2 | 3:07:15 AM | 49.6 | 91201.08394 |
| | 15:54:00 | 15:54:00 | | 39.7 | 42.6 | 37.3 | 3:08:15 AM | 49.7 | 93325.43008 |
| | 15:55:00 | 15:55:00 | | 39.9 | 43.1 | 37.6 | 3:09:15 AM | 49.9 | 97723.7221 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 15:56:00 | 15:56:00 | | 39.5 | 40.7 | 38.3 | 3:10:15 AM | 49.5 | 89125.09381 |
| | 15:57:00 | 15:57:00 | | 40.7 | 44.8 | 38.1 | 3:11:15 AM | 50.7 | 117489.7555 |
| | 15:58:00 | 15:58:00 | | 42.2 | 46.9 | 37.2 | 3:12:15 AM | 52.2 | 165958.6907 |
| | 15:59:00 | 15:59:00 | | 48.8 | 53 | 41.4 | 3:13:15 AM | 58.8 | 758577.575 |
| | 16:00:00 | 16:00:00 | | 43.2 | 48.1 | 40.7 | 3:14:15 AM | 53.2 | 208929.6131 |
| | 16:01:00 | 16:01:00 | | 40.4 | 44.5 | 38.6 | 3:15:15 AM | 50.4 | 109647.8196 |
| | 16:02:00 | 16:02:00 | | 39.7 | 41.9 | 37.2 | 3:16:15 AM | 49.7 | 93325.43008 |
| | 16:03:00 | 16:03:00 | | 38.7 | 40.4 | 37.3 | 3:17:15 AM | 48.7 | 74131.02413 |
| | 16:04:00 | 16:04:00 | | 39.1 | 42.3 | 37.4 | 3:18:15 AM | 49.1 | 81283.05162 |
| | 16:05:00 | 16:05:00 | | 38.4 | 40.8 | 36.5 | 3:19:15 AM | 48.4 | 69183.09709 |
| | 16:06:00 | 16:06:00 | | 38.4 | 41.5 | 36.4 | 3:20:15 AM | 48.4 | 69183.09709 |
| | 16:07:00 | 16:07:00 | | 38.3 | 40.6 | 36.7 | 3:21:15 AM | 48.3 | 67608.29754 |
| | 16:08:00 | 16:08:00 | | 38.8 | 41.3 | 36.9 | 3:22:15 AM | 48.8 | 75857.7575 |
| | 16:09:00 | 16:09:00 | | 38.9 | 41.6 | 35.8 | 3:23:15 AM | 48.9 | 77624.71166 |
| | 16:10:00 | 16:10:00 | | 38 | 42.2 | 35.8 | 3:24:15 AM | 48 | 63095.73445 |
| | 16:11:00 | 16:11:00 | | 38 | 40.1 | 36.4 | 3:25:15 AM | 48 | 63095.73445 |
| | 16:12:00 | 16:12:00 | | 38 | 39.4 | 36.7 | 3:26:15 AM | 48 | 63095.73445 |
| | 16:13:00 | 16:13:00 | | 38.1 | 41.6 | 36.6 | 3:27:15 AM | 48.1 | 64565.4229 |
| | 16:14:00 | 16:14:00 | | 36.8 | 39.9 | 34.9 | 3:28:15 AM | 46.8 | 47863.00923 |
| | 16:15:00 | 16:15:00 | | 40.6 | 50.3 | 35.1 | 3:29:15 AM | 50.6 | 114815.3621 |
| | 16:16:00 | 16:16:00 | | 38.1 | 40.1 | 36.1 | 3:30:15 AM | 48.1 | 64565.4229 |
| | 16:17:00 | 16:17:00 | | 39.5 | 43 | 37 | 3:31:15 AM | 49.5 | 89125.09381 |
| | 16:18:00 | 16:18:00 | | 40.3 | 44.8 | 37.2 | 3:32:15 AM | 50.3 | 107151.9305 |
| | 16:19:00 | 16:19:00 | | 39.1 | 44.6 | 36.2 | 3:33:15 AM | 49.1 | 81283.05162 |
| | 16:20:00 | 16:20:00 | | 41.2 | 45.1 | 37.8 | 3:34:15 AM | 51.2 | 131825.6739 |
| | 16:21:00 | 16:21:00 | | 42 | 46.8 | 38.2 | 3:35:15 AM | 52 | 158489.3192 |
| | 16:22:00 | 16:22:00 | | 39 | 45.4 | 36.1 | 3:36:15 AM | 49 | 79432.82347 |
| | 16:23:00 | 16:23:00 | | 38.1 | 40.3 | 35.7 | 3:37:15 AM | 48.1 | 64565.4229 |
| | 16:24:00 | 16:24:00 | | 38.5 | 40.6 | 37.3 | 3:38:15 AM | 48.5 | 70794.57844 |
| | 16:25:00 | 16:25:00 | | 38.3 | 40.6 | 36.9 | 3:39:15 AM | 48.3 | 67608.29754 |
| | 16:26:00 | 16:26:00 | | 37.7 | 40.4 | 35.9 | 3:40:15 AM | 47.7 | 58884.36554 |
| | 16:27:00 | 16:27:00 | | 38 | 40.4 | 36.4 | 3:41:15 AM | 48 | 63095.73445 |
| | 16:28:00 | 16:28:00 | | 38.9 | 40.5 | 37.2 | 3:42:15 AM | 48.9 | 77624.71166 |
| | 16:29:00 | 16:29:00 | | 41.1 | 48.5 | 37.3 | 3:43:15 AM | 51.1 | 128824.9552 |
| | 16:30:00 | 16:30:00 | | 38.9 | 43.2 | 36.9 | 3:44:15 AM | 48.9 | 77624.71166 |
| | 16:31:00 | 16:31:00 | | 41.5 | 45 | 38.2 | 3:45:15 AM | 51.5 | 141253.7545 |
| | 16:32:00 | 16:32:00 | | 42.2 | 46.4 | 38.7 | 3:46:15 AM | 52.2 | 165958.6907 |
| | 16:33:00 | 16:33:00 | | 39.5 | 41.2 | 37.6 | 3:47:15 AM | 49.5 | 89125.09381 |
| | 16:34:00 | 16:34:00 | | 39.9 | 42.9 | 38.2 | 3:48:15 AM | 49.9 | 97723.7221 |
| | 16:35:00 | 16:35:00 | | 38.4 | 41.7 | 36.2 | 3:49:15 AM | 48.4 | 69183.09709 |
| | 16:36:00 | 16:36:00 | | 38.5 | 40 | 37.2 | 3:50:15 AM | 48.5 | 70794.57844 |
| | 16:37:00 | 16:37:00 | | 40.4 | 44.7 | 37.2 | 3:51:15 AM | 50.4 | 109647.8196 |
| | 16:38:00 | 16:38:00 | | 43.9 | 53.3 | 38.8 | 3:52:15 AM | 53.9 | 245470.8916 |
| | 16:39:00 | 16:39:00 | | 44.4 | 54.3 | 39 | 3:53:15 AM | 54.4 | 275422.8703 |
| | 16:40:00 | 16:40:00 | | 46 | 50.9 | 40.2 | 3:54:15 AM | 56 | 398107.1706 |
| | 16:41:00 | 16:41:00 | | 42 | 43.7 | 40.3 | 3:55:15 AM | 52 | 158489.3192 |
| | 16:42:00 | 16:42:00 | | 42.2 | 43.7 | 40.7 | 3:56:15 AM | 52.2 | 165958.6907 |
| | 16:43:00 | 16:43:00 | | 40.7 | 43 | 39 | 3:57:15 AM | 50.7 | 117489.7555 |
| | 16:44:00 | 16:44:00 | | 38.4 | 40.5 | 36.7 | 3:58:15 AM | 48.4 | 69183.09709 |
| | 16:45:00 | 16:45:00 | | 39.7 | 41.1 | 37.1 | 3:59:15 AM | 49.7 | 93325.43008 |
| | 16:46:00 | 16:46:00 | | 38.7 | 40.6 | 37.5 | 4:00:15 AM | 48.7 | 74131.02413 |
| | 16:47:00 | 16:47:00 | | 38.3 | 40.8 | 36.3 | 4:01:15 AM | 48.3 | 67608.29754 |
| | 16:48:00 | 16:48:00 | | 38.5 | 41 | 36.4 | 4:02:15 AM | 48.5 | 70794.57844 |
| | 16:49:00 | 16:49:00 | | 37.5 | 39.6 | 35.6 | 4:03:15 AM | 47.5 | 56234.13252 |
| | 16:50:00 | 16:50:00 | | 36.8 | 39 | 35.6 | 4:04:15 AM | 46.8 | 47863.00923 |
| | 16:51:00 | 16:51:00 | | 38.5 | 41.2 | 36.6 | 4:05:15 AM | 48.5 | 70794.57844 |
| | 16:52:00 | 16:52:00 | | 38 | 43.2 | 34.9 | 4:06:15 AM | 48 | 63095.73445 |
| | 16:53:00 | 16:53:00 | | 36.6 | 39.3 | 34.7 | 4:07:15 AM | 46.6 | 45708.81896 |
| | 16:54:00 | 16:54:00 | | 38.5 | 40.6 | 36.8 | 4:08:15 AM | 48.5 | 70794.57844 |
| | 16:55:00 | 16:55:00 | | 37.9 | 43.1 | 35.7 | 4:09:15 AM | 47.9 | 61659.50019 |
| | 16:56:00 | 16:56:00 | | 37.7 | 41.7 | 35.9 | 4:10:15 AM | 47.7 | 58884.36554 |
| | 16:57:00 | 16:57:00 | | 37.4 | 39.9 | 35.3 | 4:11:15 AM | 47.4 | 54954.08739 |
| | 16:58:00 | 16:58:00 | | 37.8 | 39.8 | 35.9 | 4:12:15 AM | 47.8 | 60255.95861 |
| | 16:59:00 | 16:59:00 | | 37.1 | 39.5 | 35 | 4:13:15 AM | 47.1 | 51286.1384 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 17:00:00 | 17:00:00 | | 39.1 | 42 | 35.2 | 4:14:15 AM | 49.1 | 81283.05162 |
| | 17:01:00 | 17:01:00 | | 36.2 | 38.3 | 34.6 | 4:15:15 AM | 46.2 | 41686.93835 |
| | 17:02:00 | 17:02:00 | | 35.5 | 37.7 | 33.8 | 4:16:15 AM | 45.5 | 35481.33892 |
| | 17:03:00 | 17:03:00 | | 37.6 | 38.8 | 34.9 | 4:17:15 AM | 47.6 | 57543.99373 |
| | 17:04:00 | 17:04:00 | | 37.3 | 38.8 | 35.8 | 4:18:15 AM | 47.3 | 53703.17964 |
| | 17:05:00 | 17:05:00 | | 37.2 | 39.4 | 35.5 | 4:19:15 AM | 47.2 | 52480.74602 |
| | 17:06:00 | 17:06:00 | | 36.1 | 38.7 | 34.5 | 4:20:15 AM | 46.1 | 40738.02778 |
| | 17:07:00 | 17:07:00 | | 37.3 | 40.2 | 35.6 | 4:21:15 AM | 47.3 | 53703.17964 |
| | 17:08:00 | 17:08:00 | | 40.9 | 44.3 | 37.9 | 4:22:15 AM | 50.9 | 123026.8771 |
| | 17:09:00 | 17:09:00 | | 39.5 | 43.9 | 36.3 | 4:23:15 AM | 49.5 | 89125.09381 |
| | 17:10:00 | 17:10:00 | | 38.3 | 40.7 | 36.4 | 4:24:15 AM | 48.3 | 67608.29754 |
| | 17:11:00 | 17:11:00 | | 41.5 | 44.5 | 38.9 | 4:25:15 AM | 51.5 | 141253.7545 |
| | 17:12:00 | 17:12:00 | | 40.4 | 42.4 | 38.3 | 4:26:15 AM | 50.4 | 109647.8196 |
| | 17:13:00 | 17:13:00 | | 38.6 | 40.8 | 37 | 4:27:15 AM | 48.6 | 72443.59601 |
| | 17:14:00 | 17:14:00 | | 38.9 | 40.4 | 37.5 | 4:28:15 AM | 48.9 | 77624.71166 |
| | 17:15:00 | 17:15:00 | | 39 | 42.9 | 37.3 | 4:29:15 AM | 49 | 79432.82347 |
| | 17:16:00 | 17:16:00 | | 41 | 44.2 | 39.5 | 4:30:15 AM | 51 | 125892.5412 |
| | 17:17:00 | 17:17:00 | | 41.2 | 44.4 | 38.8 | 4:31:15 AM | 51.2 | 131825.6739 |
| | 17:18:00 | 17:18:00 | | 42.8 | 45.5 | 40.3 | 4:32:15 AM | 52.8 | 190546.0718 |
| | 17:19:00 | 17:19:00 | | 43.9 | 47.2 | 40.6 | 4:33:15 AM | 53.9 | 245470.8916 |
| | 17:20:00 | 17:20:00 | | 43 | 45.4 | 39.8 | 4:34:15 AM | 53 | 199526.2315 |
| | 17:21:00 | 17:21:00 | | 41.3 | 43.7 | 39.7 | 4:35:15 AM | 51.3 | 134896.2883 |
| | 17:22:00 | 17:22:00 | | 40.3 | 42 | 38.5 | 4:36:15 AM | 50.3 | 107151.9305 |
| | 17:23:00 | 17:23:00 | | 41.4 | 44.3 | 39.2 | 4:37:15 AM | 51.4 | 138038.4265 |
| | 17:24:00 | 17:24:00 | | 43.4 | 45.4 | 40.6 | 4:38:15 AM | 53.4 | 218776.1624 |
| | 17:25:00 | 17:25:00 | | 45.9 | 53.1 | 41.7 | 4:39:15 AM | 55.9 | 389045.145 |
| | 17:26:00 | 17:26:00 | | 42.8 | 46.7 | 41 | 4:40:15 AM | 52.8 | 190546.0718 |
| | 17:27:00 | 17:27:00 | | 42.7 | 47.6 | 40.5 | 4:41:15 AM | 52.7 | 186208.7137 |
| | 17:28:00 | 17:28:00 | | 43.7 | 46.9 | 40.7 | 4:42:15 AM | 53.7 | 234422.8815 |
| | 17:29:00 | 17:29:00 | | 43.1 | 44.6 | 41.6 | 4:43:15 AM | 53.1 | 204173.7945 |
| | 17:30:00 | 17:30:00 | | 44.6 | 48.5 | 42.5 | 4:44:15 AM | 54.6 | 288403.1503 |
| | 17:31:00 | 17:31:00 | | 45.1 | 46.8 | 43.1 | 4:45:15 AM | 55.1 | 323593.6569 |
| | 17:32:00 | 17:32:00 | | 47.4 | 49.8 | 45.2 | 4:46:15 AM | 57.4 | 549540.8739 |
| | 17:33:00 | 17:33:00 | | 46.3 | 48.6 | 43.5 | 4:47:15 AM | 56.3 | 426579.5188 |
| | 17:34:00 | 17:34:00 | | 45.8 | 49.3 | 42.6 | 4:48:15 AM | 55.8 | 380189.3963 |
| | 17:35:00 | 17:35:00 | | 43.5 | 46 | 40.6 | 4:49:15 AM | 53.5 | 223872.1139 |
| | 17:36:00 | 17:36:00 | | 44.2 | 46.3 | 42.7 | 4:50:15 AM | 54.2 | 263026.7992 |
| | 17:37:00 | 17:37:00 | | 44.4 | 46.4 | 42.3 | 4:51:15 AM | 54.4 | 275422.8703 |
| | 17:38:00 | 17:38:00 | | 44.8 | 47.3 | 41.9 | 4:52:15 AM | 54.8 | 301995.172 |
| | 17:39:00 | 17:39:00 | | 43.1 | 45.6 | 41.2 | 4:53:15 AM | 53.1 | 204173.7945 |
| | 17:40:00 | 17:40:00 | | 45.1 | 47.3 | 43.1 | 4:54:15 AM | 55.1 | 323593.6569 |
| | 17:41:00 | 17:41:00 | | 42.4 | 45.3 | 40.8 | 4:55:15 AM | 52.4 | 173780.0829 |
| | 17:42:00 | 17:42:00 | | 44.9 | 46.9 | 41.3 | 4:56:15 AM | 54.9 | 309029.5433 |
| | 17:43:00 | 17:43:00 | | 44.6 | 49.6 | 42 | 4:57:15 AM | 54.6 | 288403.1503 |
| | 17:44:00 | 17:44:00 | | 44.5 | 48.3 | 42.3 | 4:58:15 AM | 54.5 | 281838.2931 |
| | 17:45:00 | 17:45:00 | | 43.7 | 46.6 | 40.9 | 4:59:15 AM | 53.7 | 234422.8815 |
| | 17:46:00 | 17:46:00 | | 41.1 | 44.6 | 38.4 | 5:00:15 AM | 51.1 | 128824.9552 |
| | 17:47:00 | 17:47:00 | | 40.5 | 42.4 | 39 | 5:01:15 AM | 50.5 | 112201.8454 |
| | 17:48:00 | 17:48:00 | | 41 | 43 | 39.4 | 5:02:15 AM | 51 | 125892.5412 |
| | 17:49:00 | 17:49:00 | | 39.4 | 40.9 | 37 | 5:03:15 AM | 49.4 | 87096.359 |
| | 17:50:00 | 17:50:00 | | 39.8 | 49.4 | 37.1 | 5:04:15 AM | 49.8 | 95499.2586 |
| | 17:51:00 | 17:51:00 | | 39.7 | 43.9 | 37.8 | 5:05:15 AM | 49.7 | 93325.43008 |
| | 17:52:00 | 17:52:00 | | 39.9 | 43.6 | 37.8 | 5:06:15 AM | 49.9 | 97723.7221 |
| | 17:53:00 | 17:53:00 | | 40.5 | 42.6 | 38.2 | 5:07:15 AM | 50.5 | 112201.8454 |
| | 17:54:00 | 17:54:00 | | 41.3 | 44.4 | 38.5 | 5:08:15 AM | 51.3 | 134896.2883 |
| | 17:55:00 | 17:55:00 | | 42.5 | 45 | 41 | 5:09:15 AM | 52.5 | 177827.941 |
| | 17:56:00 | 17:56:00 | | 41.4 | 44.7 | 37.7 | 5:10:15 AM | 51.4 | 138038.4265 |
| | 17:57:00 | 17:57:00 | | 38.4 | 42.1 | 36.7 | 5:11:15 AM | 48.4 | 69183.09709 |
| | 17:58:00 | 17:58:00 | | 38.7 | 43.5 | 36.8 | 5:12:15 AM | 48.7 | 74131.02413 |
| | 17:59:00 | 17:59:00 | | 40.4 | 43.7 | 37 | 5:13:15 AM | 50.4 | 109647.8196 |
| | 18:00:00 | 18:00:00 | | 41.9 | 46.4 | 39.5 | 5:14:15 AM | 51.9 | 154881.6619 |
| | 18:01:00 | 18:01:00 | | 41.6 | 44.4 | 39.2 | 5:15:15 AM | 51.6 | 144543.9771 |
| | 18:02:00 | 18:02:00 | | 40.4 | 42 | 38.8 | 5:16:15 AM | 50.4 | 109647.8196 |
| | 18:03:00 | 18:03:00 | | 41.6 | 43.3 | 40.1 | 5:17:15 AM | 51.6 | 144543.9771 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 18:04:00 | 18:04:00 | | 41.6 | 44.1 | 38.9 | 5:18:15 AM | 51.6 | 144543.9771 |
| | 18:05:00 | 18:05:00 | | 41.9 | 44.2 | 40 | 5:19:15 AM | 51.9 | 154881.6619 |
| | 18:06:00 | 18:06:00 | | 43.1 | 47.1 | 40.7 | 5:20:15 AM | 53.1 | 204173.7945 |
| | 18:07:00 | 18:07:00 | | 41.7 | 45.2 | 39.3 | 5:21:15 AM | 51.7 | 147910.8388 |
| | 18:08:00 | 18:08:00 | | 45.3 | 52.8 | 39.8 | 5:22:15 AM | 55.3 | 338844.1561 |
| | 18:09:00 | 18:09:00 | | 41.9 | 43.8 | 40.5 | 5:23:15 AM | 51.9 | 154881.6619 |
| | 18:10:00 | 18:10:00 | | 42.5 | 44.2 | 41.3 | 5:24:15 AM | 52.5 | 177827.941 |
| | 18:11:00 | 18:11:00 | | 46.3 | 50.3 | 43.5 | 5:25:15 AM | 56.3 | 426579.5188 |
| | 18:12:00 | 18:12:00 | | 45.4 | 47.3 | 43 | 5:26:15 AM | 55.4 | 346736.8505 |
| | 18:13:00 | 18:13:00 | | 44.8 | 47.2 | 43.1 | 5:27:15 AM | 54.8 | 301995.172 |
| | 18:14:00 | 18:14:00 | | 45.2 | 47.7 | 42.8 | 5:28:15 AM | 55.2 | 331131.1215 |
| | 18:15:00 | 18:15:00 | | 44.5 | 48 | 42.1 | 5:29:15 AM | 54.5 | 281838.2931 |
| | 18:16:00 | 18:16:00 | | 45.6 | 47.8 | 43.6 | 5:30:15 AM | 55.6 | 363078.0548 |
| | 18:17:00 | 18:17:00 | | 43.8 | 46.3 | 41.8 | 5:31:15 AM | 53.8 | 239883.2919 |
| | 18:18:00 | 18:18:00 | | 43.6 | 45.9 | 41.8 | 5:32:15 AM | 53.6 | 229086.7653 |
| | 18:19:00 | 18:19:00 | | 43.3 | 46.2 | 41.7 | 5:33:15 AM | 53.3 | 213796.209 |
| | 18:20:00 | 18:20:00 | | 43 | 45 | 41.6 | 5:34:15 AM | 53 | 199526.2315 |
| | 18:21:00 | 18:21:00 | | 43.5 | 44.6 | 41.6 | 5:35:15 AM | 53.5 | 223872.1139 |
| | 18:22:00 | 18:22:00 | | 41.9 | 44.2 | 39 | 5:36:15 AM | 51.9 | 154881.6619 |
| | 18:23:00 | 18:23:00 | | 40.4 | 45.2 | 38.6 | 5:37:15 AM | 50.4 | 109647.8196 |
| | 18:24:00 | 18:24:00 | | 41.5 | 43.1 | 39.9 | 5:38:15 AM | 51.5 | 141253.7545 |
| | 18:25:00 | 18:25:00 | | 43.4 | 46.5 | 40.1 | 5:39:15 AM | 53.4 | 218776.1624 |
| | 18:26:00 | 18:26:00 | | 43.5 | 49.2 | 40.6 | 5:40:15 AM | 53.5 | 223872.1139 |
| | 18:27:00 | 18:27:00 | | 43.4 | 50.4 | 41.6 | 5:41:15 AM | 53.4 | 218776.1624 |
| | 18:28:00 | 18:28:00 | | 42.4 | 45 | 41.4 | 5:42:15 AM | 52.4 | 173780.0829 |
| | 18:29:00 | 18:29:00 | | 42.8 | 44.3 | 41.4 | 5:43:15 AM | 52.8 | 190546.0718 |
| | 18:30:00 | 18:30:00 | | 42.3 | 44.1 | 41 | 5:44:15 AM | 52.3 | 169824.3652 |
| | 18:31:00 | 18:31:00 | | 41.8 | 45.1 | 40.1 | 5:45:15 AM | 51.8 | 151356.1248 |
| | 18:32:00 | 18:32:00 | | 41.7 | 44.5 | 40.1 | 5:46:15 AM | 51.7 | 147910.8388 |
| | 18:33:00 | 18:33:00 | | 40.9 | 43.3 | 39.1 | 5:47:15 AM | 50.9 | 123026.8771 |
| | 18:34:00 | 18:34:00 | | 39.4 | 41.3 | 37.9 | 5:48:15 AM | 49.4 | 87096.359 |
| | 18:35:00 | 18:35:00 | | 40.3 | 44.4 | 38.3 | 5:49:15 AM | 50.3 | 107151.9305 |
| | 18:36:00 | 18:36:00 | | 40.2 | 42.6 | 38.6 | 5:50:15 AM | 50.2 | 104712.8548 |
| | 18:37:00 | 18:37:00 | | 40.7 | 43.3 | 39 | 5:51:15 AM | 50.7 | 117489.7555 |
| | 18:38:00 | 18:38:00 | | 41.4 | 47 | 39 | 5:52:15 AM | 51.4 | 138038.4265 |
| | 18:39:00 | 18:39:00 | | 41.8 | 45 | 40.5 | 5:53:15 AM | 51.8 | 151356.1248 |
| | 18:40:00 | 18:40:00 | | 42.7 | 45.8 | 40.9 | 5:54:15 AM | 52.7 | 186208.7137 |
| | 18:41:00 | 18:41:00 | | 43.3 | 45.7 | 41.4 | 5:55:15 AM | 53.3 | 213796.209 |
| | 18:42:00 | 18:42:00 | | 44 | 46.6 | 41.6 | 5:56:15 AM | 54 | 251188.6432 |
| | 18:43:00 | 18:43:00 | | 42.9 | 46.2 | 41.2 | 5:57:15 AM | 52.9 | 194984.46 |
| | 18:44:00 | 18:44:00 | | 42.3 | 44.7 | 40.8 | 5:58:15 AM | 52.3 | 169824.3652 |
| | 18:45:00 | 18:45:00 | | 44.2 | 46.6 | 41.2 | 5:59:15 AM | 54.2 | 263026.7992 |
| | 18:46:00 | 18:46:00 | | 42.4 | 44.1 | 41 | 6:00:15 AM | 52.4 | 173780.0829 |
| | 18:47:00 | 18:47:00 | | 42.3 | 43.5 | 41.4 | 6:01:15 AM | 52.3 | 169824.3652 |
| | 18:48:00 | 18:48:00 | | 43.1 | 45.3 | 40.4 | 6:02:15 AM | 53.1 | 204173.7945 |
| | 18:49:00 | 18:49:00 | | 43.6 | 46.1 | 41.3 | 6:03:15 AM | 53.6 | 229086.7653 |
| | 18:50:00 | 18:50:00 | | 45.8 | 48.5 | 43.5 | 6:04:15 AM | 55.8 | 380189.3963 |
| | 18:51:00 | 18:51:00 | | 46.8 | 49 | 44.6 | 6:05:15 AM | 56.8 | 478630.0923 |
| | 18:52:00 | 18:52:00 | | 46.6 | 49.6 | 44.7 | 6:06:15 AM | 56.6 | 457088.1896 |
| | 18:53:00 | 18:53:00 | | 44.2 | 45.9 | 42.2 | 6:07:15 AM | 54.2 | 263026.7992 |
| | 18:54:00 | 18:54:00 | | 44 | 46.7 | 42.3 | 6:08:15 AM | 54 | 251188.6432 |
| | 18:55:00 | 18:55:00 | | 45.7 | 46.8 | 44.6 | 6:09:15 AM | 55.7 | 371535.2291 |
| | 18:56:00 | 18:56:00 | | 45.2 | 47 | 43.1 | 6:10:15 AM | 55.2 | 331131.1215 |
| | 18:57:00 | 18:57:00 | | 43.9 | 46.4 | 41.4 | 6:11:15 AM | 53.9 | 245470.8916 |
| | 18:58:00 | 18:58:00 | | 41.9 | 43.6 | 38.7 | 6:12:15 AM | 51.9 | 154881.6619 |
| | 18:59:00 | 18:59:00 | | 41.3 | 43 | 39.1 | 6:13:15 AM | 51.3 | 134896.2883 |
| | 19:00:00 | 19:00:00 | | 43 | 47 | 40.6 | 6:14:15 AM | 53 | 199526.2315 |
| | 19:01:00 | 19:01:00 | | 41.6 | 45 | 40.3 | 6:15:15 AM | 51.6 | 144543.9771 |
| | 19:02:00 | 19:02:00 | | 42.3 | 43.9 | 40.8 | 6:16:15 AM | 52.3 | 169824.3652 |
| | 19:03:00 | 19:03:00 | | 40.7 | 42 | 39.4 | 6:17:15 AM | 50.7 | 117489.7555 |
| | 19:04:00 | 19:04:00 | | 41 | 45.4 | 39.6 | 6:18:15 AM | 51 | 125892.5412 |
| | 19:05:00 | 19:05:00 | | 40.9 | 47.9 | 39 | 6:19:15 AM | 50.9 | 123026.8771 |
| | 19:06:00 | 19:06:00 | | 41.9 | 44.6 | 39.7 | 6:20:15 AM | 51.9 | 154881.6619 |
| | 19:07:00 | 19:07:00 | | 39.7 | 41.5 | 38.3 | 6:21:15 AM | 49.7 | 93325.43008 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 19:08:00 | 19:08:00 | | 39.3 | 40.8 | 38.1 | 6:22:15 AM | 49.3 | 85113.80382 |
| | 19:09:00 | 19:09:00 | | 39 | 40.4 | 37.7 | 6:23:15 AM | 49 | 79432.82347 |
| | 19:10:00 | 19:10:00 | | 38.8 | 41.9 | 37.2 | 6:24:15 AM | 48.8 | 75857.7575 |
| | 19:11:00 | 19:11:00 | | 38.7 | 39.9 | 36.7 | 6:25:15 AM | 48.7 | 74131.02413 |
| | 19:12:00 | 19:12:00 | | 37.4 | 39.7 | 36.4 | 6:26:15 AM | 47.4 | 54954.08739 |
| | 19:13:00 | 19:13:00 | | 37.1 | 39.3 | 36.2 | 6:27:15 AM | 47.1 | 51286.1384 |
| | 19:14:00 | 19:14:00 | | 37.8 | 39.4 | 36.6 | 6:28:15 AM | 47.8 | 60255.95861 |
| | 19:15:00 | 19:15:00 | | 38.2 | 39.9 | 36.8 | 6:29:15 AM | 48.2 | 66069.3448 |
| | 19:16:00 | 19:16:00 | | 38.2 | 39.4 | 37.1 | 6:30:15 AM | 48.2 | 66069.3448 |
| | 19:17:00 | 19:17:00 | | 41.1 | 43.2 | 38.7 | 6:31:15 AM | 51.1 | 128824.9552 |
| | 19:18:00 | 19:18:00 | | 40.9 | 43.2 | 37.9 | 6:32:15 AM | 50.9 | 123026.8771 |
| | 19:19:00 | 19:19:00 | | 39.1 | 42.6 | 36.8 | 6:33:15 AM | 49.1 | 81283.05162 |
| | 19:20:00 | 19:20:00 | | 38.5 | 41.3 | 36.7 | 6:34:15 AM | 48.5 | 70794.57844 |
| | 19:21:00 | 19:21:00 | | 39.3 | 40.6 | 37.8 | 6:35:15 AM | 49.3 | 85113.80382 |
| | 19:22:00 | 19:22:00 | | 40.4 | 44.7 | 39.4 | 6:36:15 AM | 50.4 | 109647.8196 |
| | 19:23:00 | 19:23:00 | | 42.8 | 47.7 | 39.4 | 6:37:15 AM | 52.8 | 190546.0718 |
| | 19:24:00 | 19:24:00 | | 40.8 | 45.6 | 39.1 | 6:38:15 AM | 50.8 | 120226.4435 |
| | 19:25:00 | 19:25:00 | | 39.7 | 41 | 38 | 6:39:15 AM | 49.7 | 93325.43008 |
| | 19:26:00 | 19:26:00 | | 39.3 | 41 | 38 | 6:40:15 AM | 49.3 | 85113.80382 |
| | 19:27:00 | 19:27:00 | | 39.8 | 44 | 37.6 | 6:41:15 AM | 49.8 | 95499.2586 |
| | 19:28:00 | 19:28:00 | | 39.5 | 44.2 | 37.7 | 6:42:15 AM | 49.5 | 89125.09381 |
| | 19:29:00 | 19:29:00 | | 39.4 | 43.3 | 37.5 | 6:43:15 AM | 49.4 | 87096.359 |
| | 19:30:00 | 19:30:00 | | 38.6 | 40.3 | 37.2 | 6:44:15 AM | 48.6 | 72443.59601 |
| | 19:31:00 | 19:31:00 | | 39.2 | 40.7 | 37.9 | 6:45:15 AM | 49.2 | 83176.37711 |
| | 19:32:00 | 19:32:00 | | 40.4 | 43.6 | 38.1 | 6:46:15 AM | 50.4 | 109647.8196 |
| | 19:33:00 | 19:33:00 | | 39.8 | 42.3 | 38.2 | 6:47:15 AM | 49.8 | 95499.2586 |
| | 19:34:00 | 19:34:00 | | 39 | 40.9 | 37.4 | 6:48:15 AM | 49 | 79432.82347 |
| | 19:35:00 | 19:35:00 | | 39.2 | 42.3 | 37 | 6:49:15 AM | 49.2 | 83176.37711 |
| | 19:36:00 | 19:36:00 | | 38 | 40.7 | 36.3 | 6:50:15 AM | 48 | 63095.73445 |
| | 19:37:00 | 19:37:00 | | 35.9 | 37.7 | 34.4 | 6:51:15 AM | 45.9 | 38904.5145 |
| | 19:38:00 | 19:38:00 | | 36.1 | 38.7 | 34.3 | 6:52:15 AM | 46.1 | 40738.02778 |
| | 19:39:00 | 19:39:00 | | 36.6 | 37.9 | 35.2 | 6:53:15 AM | 46.6 | 45708.81896 |
| | 19:40:00 | 19:40:00 | | 35.7 | 39.2 | 34.2 | 6:54:15 AM | 45.7 | 37153.52291 |
| | 19:41:00 | 19:41:00 | | 35.4 | 38.8 | 34.3 | 6:55:15 AM | 45.4 | 34673.68505 |
| | 19:42:00 | 19:42:00 | | 35.8 | 37.6 | 34.2 | 6:56:15 AM | 45.8 | 38018.93963 |
| | 19:43:00 | 19:43:00 | | 35.6 | 39 | 33.9 | 6:57:15 AM | 45.6 | 36307.80548 |
| | 19:44:00 | 19:44:00 | | 37.7 | 40.2 | 36.1 | 6:58:15 AM | 47.7 | 58884.36554 |
| | 19:45:00 | 19:45:00 | | 36.3 | 38.8 | 35.3 | 6:59:15 AM | 46.3 | 42657.95188 |
| | 19:46:00 | 19:46:00 | | 35.7 | 38.3 | 34.1 | 7:00:15 AM | 35.7 | 3715.352291 |
| | 19:47:00 | 19:47:00 | | 35.6 | 36.7 | 34.5 | 7:01:15 AM | 35.6 | 3630.780548 |
| | 19:48:00 | 19:48:00 | | 35.5 | 36.6 | 34.6 | 7:02:15 AM | 35.5 | 3548.133892 |
| | 19:49:00 | 19:49:00 | | 35.6 | 36.5 | 34.7 | 7:03:15 AM | 35.6 | 3630.780548 |
| | 19:50:00 | 19:50:00 | | 34.9 | 36.3 | 34 | 7:04:15 AM | 34.9 | 3090.295433 |
| | 19:51:00 | 19:51:00 | | 34.9 | 36.1 | 34.2 | 7:05:15 AM | 34.9 | 3090.295433 |
| | 19:52:00 | 19:52:00 | | 35.6 | 41.1 | 33.6 | 7:06:15 AM | 35.6 | 3630.780548 |
| | 19:53:00 | 19:53:00 | | 34.2 | 35.6 | 33.1 | 7:07:15 AM | 34.2 | 2630.267992 |
| | 19:54:00 | 19:54:00 | | 34.3 | 38.5 | 32.6 | 7:08:15 AM | 34.3 | 2691.534804 |
| | 19:55:00 | 19:55:00 | | 34.4 | 36.3 | 32.8 | 7:09:15 AM | 34.4 | 2754.228703 |
| | 19:56:00 | 19:56:00 | | 35.5 | 36.5 | 34.2 | 7:10:15 AM | 35.5 | 3548.133892 |
| | 19:57:00 | 19:57:00 | | 39.1 | 45 | 34.8 | 7:11:15 AM | 39.1 | 8128.305162 |
| | 19:58:00 | 19:58:00 | | 38.3 | 42.5 | 36.9 | 7:12:15 AM | 38.3 | 6760.829754 |
| | 19:59:00 | 19:59:00 | | 38.6 | 39.6 | 37.8 | 7:13:15 AM | 38.6 | 7244.359601 |
| | 20:00:00 | 20:00:00 | | 38.3 | 40 | 36.4 | 7:14:15 AM | 38.3 | 6760.829754 |
| | 20:01:00 | 20:01:00 | | 37.9 | 40.1 | 36.2 | 7:15:15 AM | 37.9 | 6165.950019 |
| | 20:02:00 | 20:02:00 | | 38.3 | 46.8 | 35.7 | 7:16:15 AM | 38.3 | 6760.829754 |
| | 20:03:00 | 20:03:00 | | 39.5 | 49.8 | 33.2 | 7:17:15 AM | 39.5 | 8912.509381 |
| | 20:04:00 | 20:04:00 | | 39.5 | 48.6 | 33.4 | 7:18:15 AM | 39.5 | 8912.509381 |
| | 20:05:00 | 20:05:00 | | 44.1 | 54.1 | 35.6 | 7:19:15 AM | 44.1 | 25703.95783 |
| | 20:06:00 | 20:06:00 | | 43.6 | 51.1 | 35.2 | 7:20:15 AM | 43.6 | 22908.67653 |
| | 20:07:00 | 20:07:00 | | 44.1 | 51.6 | 36.1 | 7:21:15 AM | 44.1 | 25703.95783 |
| | 20:08:00 | 20:08:00 | | 45 | 55 | 35.9 | 7:22:15 AM | 45 | 31622.7766 |
| | 20:09:00 | 20:09:00 | | 46.1 | 53.7 | 38.8 | 7:23:15 AM | 46.1 | 40738.02778 |
| | 20:10:00 | 20:10:00 | | 44.7 | 51.8 | 38.1 | 7:24:15 AM | 44.7 | 29512.09227 |
| | 20:11:00 | 20:11:00 | | 44.2 | 52.6 | 35.4 | 7:25:15 AM | 44.2 | 26302.67992 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 20:12:00 | 20:12:00 | | 38.2 | 45.8 | 36.2 | 7:26:15 AM | 38.2 | 6606.93448 |
| | 20:13:00 | 20:13:00 | | 36.5 | 38.2 | 34 | 7:27:15 AM | 36.5 | 4466.835922 |
| | 20:14:00 | 20:14:00 | | 34.6 | 35.7 | 33.3 | 7:28:15 AM | 34.6 | 2884.031503 |
| | 20:15:00 | 20:15:00 | | 33.7 | 35.7 | 32.7 | 7:29:15 AM | 33.7 | 2344.228815 |
| | 20:16:00 | 20:16:00 | | 35.1 | 39.9 | 33 | 7:30:15 AM | 35.1 | 3235.936569 |
| | 20:17:00 | 20:17:00 | | 35.7 | 40.1 | 33.4 | 7:31:15 AM | 35.7 | 3715.352291 |
| | 20:18:00 | 20:18:00 | | 37.7 | 41.8 | 33.3 | 7:32:15 AM | 37.7 | 5888.436554 |
| | 20:19:00 | 20:19:00 | | 42.2 | 47.3 | 36.8 | 7:33:15 AM | 42.2 | 16595.86907 |
| | 20:20:00 | 20:20:00 | | 37.4 | 39.4 | 35.3 | 7:34:15 AM | 37.4 | 5495.408739 |
| | 20:21:00 | 20:21:00 | | 36.4 | 37.9 | 35.1 | 7:35:15 AM | 36.4 | 4365.158322 |
| | 20:22:00 | 20:22:00 | | 38.9 | 42.5 | 36 | 7:36:15 AM | 38.9 | 7762.471166 |
| | 20:23:00 | 20:23:00 | | 37 | 41.5 | 34.8 | 7:37:15 AM | 37 | 5011.872336 |
| | 20:24:00 | 20:24:00 | | 38.5 | 44.1 | 36.1 | 7:38:15 AM | 38.5 | 7079.457844 |
| | 20:25:00 | 20:25:00 | | 37.1 | 38.2 | 35.9 | 7:39:15 AM | 37.1 | 5128.61384 |
| | 20:26:00 | 20:26:00 | | 38.7 | 43 | 35.9 | 7:40:15 AM | 38.7 | 7413.102413 |
| | 20:27:00 | 20:27:00 | | 38.2 | 41.5 | 35.7 | 7:41:15 AM | 38.2 | 6606.93448 |
| | 20:28:00 | 20:28:00 | | 40.5 | 48.8 | 36.3 | 7:42:15 AM | 40.5 | 11220.18454 |
| | 20:29:00 | 20:29:00 | | 45.3 | 51.7 | 38.7 | 7:43:15 AM | 45.3 | 33884.41561 |
| | 20:30:00 | 20:30:00 | | 42.1 | 50.4 | 37.7 | 7:44:15 AM | 42.1 | 16218.10097 |
| | 20:31:00 | 20:31:00 | | 44.9 | 50.7 | 37.3 | 7:45:15 AM | 44.9 | 30902.95433 |
| | 20:32:00 | 20:32:00 | | 39.5 | 46.1 | 35.7 | 7:46:15 AM | 39.5 | 8912.509381 |
| | 20:33:00 | 20:33:00 | | 39.2 | 44 | 35.8 | 7:47:15 AM | 39.2 | 8317.637711 |
| | 20:34:00 | 20:34:00 | | 43.8 | 51.1 | 35.4 | 7:48:15 AM | 43.8 | 23988.32919 |
| | 20:35:00 | 20:35:00 | | 40.8 | 48.4 | 35.5 | 7:49:15 AM | 40.8 | 12022.64435 |
| | 20:36:00 | 20:36:00 | | 36.9 | 42.6 | 34.6 | 7:50:15 AM | 36.9 | 4897.788194 |
| | 20:37:00 | 20:37:00 | | 37.3 | 42.9 | 34.6 | 7:51:15 AM | 37.3 | 5370.317964 |
| | 20:38:00 | 20:38:00 | | 36.1 | 37.5 | 34.7 | 7:52:15 AM | 36.1 | 4073.802778 |
| | 20:39:00 | 20:39:00 | | 36.9 | 40 | 35.2 | 7:53:15 AM | 36.9 | 4897.788194 |
| | 20:40:00 | 20:40:00 | | 39.3 | 45.1 | 36.8 | 7:54:15 AM | 39.3 | 8511.380382 |
| | 20:41:00 | 20:41:00 | | 37.5 | 39.1 | 35.6 | 7:55:15 AM | 37.5 | 5623.413252 |
| | 20:42:00 | 20:42:00 | | 37.7 | 41.5 | 35.9 | 7:56:15 AM | 37.7 | 5888.436554 |
| | 20:43:00 | 20:43:00 | | 39.8 | 43.8 | 37.9 | 7:57:15 AM | 39.8 | 9549.92586 |
| | 20:44:00 | 20:44:00 | | 43.4 | 46.7 | 39.6 | 7:58:15 AM | 43.4 | 21877.61624 |
| | 20:45:00 | 20:45:00 | | 42 | 46.2 | 39 | 7:59:15 AM | 42 | 15848.93192 |
| | 20:46:00 | 20:46:00 | | 41.2 | 44.4 | 39.5 | 8:00:15 AM | 41.2 | 13182.56739 |
| | 20:47:00 | 20:47:00 | | 41.7 | 44.6 | 39.2 | 8:01:15 AM | 41.7 | 14791.08388 |
| | 20:48:00 | 20:48:00 | | 41.9 | 44.1 | 39 | 8:02:15 AM | 41.9 | 15488.16619 |
| | 20:49:00 | 20:49:00 | | 44.6 | 50 | 39.6 | 8:03:15 AM | 44.6 | 28840.31503 |
| | 20:50:00 | 20:50:00 | | 42.2 | 46.4 | 38 | 8:04:15 AM | 42.2 | 16595.86907 |
| | 20:51:00 | 20:51:00 | | 40.9 | 44.5 | 37.2 | 8:05:15 AM | 40.9 | 12302.68771 |
| | 20:52:00 | 20:52:00 | | 39.7 | 45.4 | 36.1 | 8:06:15 AM | 39.7 | 9332.543008 |
| | 20:53:00 | 20:53:00 | | 40.7 | 49.1 | 36.1 | 8:07:15 AM | 40.7 | 11748.97555 |
| | 20:54:00 | 20:54:00 | | 43.1 | 52.4 | 36.6 | 8:08:15 AM | 43.1 | 20417.37945 |
| | 20:55:00 | 20:55:00 | | 38.1 | 42.3 | 36.8 | 8:09:15 AM | 38.1 | 6456.54229 |
| | 20:56:00 | 20:56:00 | | 37.1 | 39.9 | 35.2 | 8:10:15 AM | 37.1 | 5128.61384 |
| | 20:57:00 | 20:57:00 | | 40.8 | 47.5 | 35.1 | 8:11:15 AM | 40.8 | 12022.64435 |
| | 20:58:00 | 20:58:00 | | 37.8 | 41.7 | 35.8 | 8:12:15 AM | 37.8 | 6025.595861 |
| | 20:59:00 | 20:59:00 | | 36.6 | 41.3 | 34.4 | 8:13:15 AM | 36.6 | 4570.881896 |
| | 21:00:00 | 21:00:00 | | 38.7 | 42.5 | 35.4 | 8:14:15 AM | 38.7 | 7413.102413 |
| | 21:01:00 | 21:01:00 | | 37.2 | 42 | 34.3 | 8:15:15 AM | 37.2 | 5248.074602 |
| | 21:02:00 | 21:02:00 | | 37.1 | 39 | 35.7 | 8:16:15 AM | 37.1 | 5128.61384 |
| | 21:03:00 | 21:03:00 | | 37.3 | 42.5 | 35.9 | 8:17:15 AM | 37.3 | 5370.317964 |
| | 21:04:00 | 21:04:00 | | 38.3 | 40.3 | 36.9 | 8:18:15 AM | 38.3 | 6760.829754 |
| | 21:05:00 | 21:05:00 | | 39.1 | 40.5 | 37.7 | 8:19:15 AM | 39.1 | 8128.305162 |
| | 21:06:00 | 21:06:00 | | 39.2 | 41.6 | 37.3 | 8:20:15 AM | 39.2 | 8317.637711 |
| | 21:07:00 | 21:07:00 | | 39 | 40.7 | 37.5 | 8:21:15 AM | 39 | 7943.282347 |
| | 21:08:00 | 21:08:00 | | 39.7 | 42.3 | 37.9 | 8:22:15 AM | 39.7 | 9332.543008 |
| | 21:09:00 | 21:09:00 | | 48.2 | 52.7 | 40.8 | 8:23:15 AM | 48.2 | 66069.3448 |
| | 21:10:00 | 21:10:00 | | 39.7 | 42.5 | 37.2 | 8:24:15 AM | 39.7 | 9332.543008 |
| | 21:11:00 | 21:11:00 | | 40.4 | 43.6 | 38.3 | 8:25:15 AM | 40.4 | 10964.78196 |
| | 21:12:00 | 21:12:00 | | 38 | 39.9 | 36.8 | 8:26:15 AM | 38 | 6309.573445 |
| | 21:13:00 | 21:13:00 | | 44.2 | 49.4 | 38.1 | 8:27:15 AM | 44.2 | 26302.67992 |
| | 21:14:00 | 21:14:00 | | 39.4 | 42.7 | 37.2 | 8:28:15 AM | 39.4 | 8709.6359 |
| | 21:15:00 | 21:15:00 | | 37.1 | 39.3 | 35.4 | 8:29:15 AM | 37.1 | 5128.61384 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 21:16:00 | 21:16:00 | | 43 | 49.1 | 36.8 | 8:30:15 AM | 43 | 19952.62315 |
| | 21:17:00 | 21:17:00 | | 45.1 | 55.3 | 39 | 8:31:15 AM | 45.1 | 32359.36569 |
| | 21:18:00 | 21:18:00 | | 44.6 | 54.3 | 36.9 | 8:32:15 AM | 44.6 | 28840.31503 |
| | 21:19:00 | 21:19:00 | | 46.5 | 54.9 | 37.3 | 8:33:15 AM | 46.5 | 44668.35922 |
| | 21:20:00 | 21:20:00 | | 39.5 | 44.6 | 36.7 | 8:34:15 AM | 39.5 | 8912.509381 |
| | 21:21:00 | 21:21:00 | | 38.1 | 39.1 | 37 | 8:35:15 AM | 38.1 | 6456.54229 |
| | 21:22:00 | 21:22:00 | | 38.2 | 39.8 | 37 | 8:36:15 AM | 38.2 | 6606.93448 |
| | 21:23:00 | 21:23:00 | | 38.5 | 40.9 | 36.7 | 8:37:15 AM | 38.5 | 7079.457844 |
| | 21:24:00 | 21:24:00 | | 39.8 | 42 | 37.3 | 8:38:15 AM | 39.8 | 9549.92586 |
| | 21:25:00 | 21:25:00 | | 41 | 44.4 | 38.9 | 8:39:15 AM | 41 | 12589.25412 |
| | 21:26:00 | 21:26:00 | | 41.1 | 43.3 | 39.6 | 8:40:15 AM | 41.1 | 12882.49552 |
| | 21:27:00 | 21:27:00 | | 45.1 | 49.6 | 41.1 | 8:41:15 AM | 45.1 | 32359.36569 |
| | 21:28:00 | 21:28:00 | | 53 | 57.5 | 48.2 | 8:42:15 AM | 53 | 199526.2315 |
| | 21:29:00 | 21:29:00 | | 46.3 | 51.6 | 41.6 | 8:43:15 AM | 46.3 | 42657.95188 |
| | 21:30:00 | 21:30:00 | | 40.9 | 48.1 | 38.8 | 8:44:15 AM | 40.9 | 12302.68771 |
| | 21:31:00 | 21:31:00 | | 40.4 | 44.5 | 38.5 | 8:45:15 AM | 40.4 | 10964.78196 |
| | 21:32:00 | 21:32:00 | | 38.9 | 40.4 | 37.5 | 8:46:15 AM | 38.9 | 7762.471166 |
| | 21:33:00 | 21:33:00 | | 38.5 | 40.4 | 37.2 | 8:47:15 AM | 38.5 | 7079.457844 |
| | 21:34:00 | 21:34:00 | | 38.5 | 41.7 | 36.3 | 8:48:15 AM | 38.5 | 7079.457844 |
| | 21:35:00 | 21:35:00 | | 40 | 42.9 | 38.4 | 8:49:15 AM | 40 | 10000 |
| | 21:36:00 | 21:36:00 | | 40 | 42.7 | 37.7 | 8:50:15 AM | 40 | 10000 |
| | 21:37:00 | 21:37:00 | | 40.4 | 43.9 | 37.7 | 8:51:15 AM | 40.4 | 10964.78196 |
| | 21:38:00 | 21:38:00 | | 38.8 | 43 | 36.8 | 8:52:15 AM | 38.8 | 7585.77575 |
| | 21:39:00 | 21:39:00 | | 43.4 | 49 | 38.7 | 8:53:15 AM | 43.4 | 21877.61624 |
| | 21:40:00 | 21:40:00 | | 41.3 | 42.9 | 38.8 | 8:54:15 AM | 41.3 | 13489.62883 |
| | 21:41:00 | 21:41:00 | | 41 | 45.7 | 37.9 | 8:55:15 AM | 41 | 12589.25412 |
| | 21:42:00 | 21:42:00 | | 39.7 | 42.4 | 37.6 | 8:56:15 AM | 39.7 | 9332.543008 |
| | 21:43:00 | 21:43:00 | | 42.6 | 47.3 | 39.1 | 8:57:15 AM | 42.6 | 18197.00859 |
| | 21:44:00 | 21:44:00 | | 43.2 | 49.6 | 37.2 | 8:58:15 AM | 43.2 | 20892.96131 |
| | 21:45:00 | 21:45:00 | | 44.6 | 54.1 | 36.6 | 8:59:15 AM | 44.6 | 28840.31503 |
| | 21:46:00 | 21:46:00 | | 37.8 | 39.7 | 35.3 | 9:00:15 AM | 37.8 | 6025.595861 |
| | 21:47:00 | 21:47:00 | | 38.8 | 44.4 | 35.4 | 9:01:15 AM | 38.8 | 7585.77575 |
| | 21:48:00 | 21:48:00 | | 39.7 | 42.1 | 37.8 | 9:02:15 AM | 39.7 | 9332.543008 |
| | 21:49:00 | 21:49:00 | | 41.3 | 49.4 | 36.8 | 9:03:15 AM | 41.3 | 13489.62883 |
| | 21:50:00 | 21:50:00 | | 43.6 | 49.3 | 39.3 | 9:04:15 AM | 43.6 | 22908.67653 |
| | 21:51:00 | 21:51:00 | | 43.2 | 49 | 39.9 | 9:05:15 AM | 43.2 | 20892.96131 |
| | 21:52:00 | 21:52:00 | | 39.8 | 43.2 | 37.5 | 9:06:15 AM | 39.8 | 9549.92586 |
| | 21:53:00 | 21:53:00 | | 42.2 | 44.9 | 39.5 | 9:07:15 AM | 42.2 | 16595.86907 |
| | 21:54:00 | 21:54:00 | | 41.4 | 46 | 37.2 | 9:08:15 AM | 41.4 | 13803.84265 |
| | 21:55:00 | 21:55:00 | | 39.8 | 46.4 | 36.2 | 9:09:15 AM | 39.8 | 9549.92586 |
| | 21:56:00 | 21:56:00 | | 39.9 | 46 | 37.2 | 9:10:15 AM | 39.9 | 9772.37221 |
| | 21:57:00 | 21:57:00 | | 43.9 | 53.9 | 37.6 | 9:11:15 AM | 43.9 | 24547.08916 |
| | 21:58:00 | 21:58:00 | | 41.8 | 50.2 | 35.9 | 9:12:15 AM | 41.8 | 15135.61248 |
| | 21:59:00 | 21:59:00 | | 38.3 | 42 | 36.5 | 9:13:15 AM | 38.3 | 6760.829754 |
| | 22:00:00 | 22:00:00 | | 39.3 | 42.6 | 36.7 | 9:14:15 AM | 39.3 | 8511.380382 |
| | 22:01:00 | 22:01:00 | | 36.7 | 38.4 | 35.2 | 9:15:15 AM | 36.7 | 4677.351413 |
| | 22:02:00 | 22:02:00 | | 37.3 | 41.4 | 35.2 | 9:16:15 AM | 37.3 | 5370.317964 |
| | 22:03:00 | 22:03:00 | | 37.1 | 39.6 | 35.2 | 9:17:15 AM | 37.1 | 5128.61384 |
| | 22:04:00 | 22:04:00 | | 38 | 40.9 | 35.3 | 9:18:15 AM | 38 | 6309.573445 |
| | 22:05:00 | 22:05:00 | | 37.5 | 39.4 | 35.6 | 9:19:15 AM | 37.5 | 5623.413252 |
| | 22:06:00 | 22:06:00 | | 36.7 | 38.9 | 34.8 | 9:20:15 AM | 36.7 | 4677.351413 |
| | 22:07:00 | 22:07:00 | | 38.8 | 44.8 | 35.2 | 9:21:15 AM | 38.8 | 7585.77575 |
| | 22:08:00 | 22:08:00 | | 39 | 43.2 | 36.5 | 9:22:15 AM | 39 | 7943.282347 |
| | 22:09:00 | 22:09:00 | | 36.5 | 39.5 | 35 | 9:23:15 AM | 36.5 | 4466.835922 |
| | 22:10:00 | 22:10:00 | | 39 | 41.7 | 36.1 | 9:24:15 AM | 39 | 7943.282347 |
| | 22:11:00 | 22:11:00 | | 37.5 | 39.4 | 35.5 | 9:25:15 AM | 37.5 | 5623.413252 |
| | 22:12:00 | 22:12:00 | | 36.2 | 37.8 | 34.9 | 9:26:15 AM | 36.2 | 4168.693835 |
| | 22:13:00 | 22:13:00 | | 37.6 | 40.9 | 35 | 9:27:15 AM | 37.6 | 5754.399373 |
| | 22:14:00 | 22:14:00 | | 39.3 | 43 | 36.5 | 9:28:15 AM | 39.3 | 8511.380382 |
| | 22:15:00 | 22:15:00 | | 37.8 | 43.2 | 34.7 | 9:29:15 AM | 37.8 | 6025.595861 |
| | 22:16:00 | 22:16:00 | | 37.5 | 41.9 | 35.6 | 9:30:15 AM | 37.5 | 5623.413252 |
| | 22:17:00 | 22:17:00 | | 36.7 | 41.4 | 34.1 | 9:31:15 AM | 36.7 | 4677.351413 |
| | 22:18:00 | 22:18:00 | | 36.3 | 42.6 | 34.5 | 9:32:15 AM | 36.3 | 4265.795188 |
| | 22:19:00 | 22:19:00 | | 35.8 | 38.2 | 33.9 | 9:33:15 AM | 35.8 | 3801.893963 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 22:20:00 | 22:20:00 | | 36.8 | 41.1 | 34.1 | 9:34:15 AM | 36.8 | 4786.300923 |
| | 22:21:00 | 22:21:00 | | 37.4 | 41.3 | 34.8 | 9:35:15 AM | 37.4 | 5495.408739 |
| | 22:22:00 | 22:22:00 | | 38.4 | 41.9 | 35.8 | 9:36:15 AM | 38.4 | 6918.309709 |
| | 22:23:00 | 22:23:00 | | 37.4 | 40 | 35.6 | 9:37:15 AM | 37.4 | 5495.408739 |
| | 22:24:00 | 22:24:00 | | 36.9 | 40.6 | 34.8 | 9:38:15 AM | 36.9 | 4897.788194 |
| | 22:25:00 | 22:25:00 | | 36.9 | 42.6 | 34.4 | 9:39:15 AM | 36.9 | 4897.788194 |
| | 22:26:00 | 22:26:00 | | 38.6 | 42.9 | 35.5 | 9:40:15 AM | 38.6 | 7244.359601 |
| | 22:27:00 | 22:27:00 | | 37.1 | 40.9 | 34.1 | 9:41:15 AM | 37.1 | 5128.61384 |
| | 22:28:00 | 22:28:00 | | 37.3 | 46 | 34.3 | 9:42:15 AM | 37.3 | 5370.317964 |
| | 22:29:00 | 22:29:00 | | 37.6 | 43.7 | 33.8 | 9:43:15 AM | 37.6 | 5754.399373 |
| | 22:30:00 | 22:30:00 | | 36.2 | 40.9 | 33.2 | 9:44:15 AM | 36.2 | 4168.693835 |
| | 22:31:00 | 22:31:00 | | 37.2 | 40.3 | 34.3 | 9:45:15 AM | 37.2 | 5248.074602 |
| | 22:32:00 | 22:32:00 | | 37.5 | 41.9 | 34.5 | 9:46:15 AM | 37.5 | 5623.413252 |
| | 22:33:00 | 22:33:00 | | 36.3 | 39.7 | 33.8 | 9:47:15 AM | 36.3 | 4265.795188 |
| | 22:34:00 | 22:34:00 | | 34.8 | 38.2 | 32.8 | 9:48:15 AM | 34.8 | 3019.95172 |
| | 22:35:00 | 22:35:00 | | 34.3 | 37.8 | 33 | 9:49:15 AM | 34.3 | 2691.534804 |
| | 22:36:00 | 22:36:00 | | 34.2 | 36.5 | 32.9 | 9:50:15 AM | 34.2 | 2630.267992 |
| | 22:37:00 | 22:37:00 | | 33.4 | 36.9 | 31.9 | 9:51:15 AM | 33.4 | 2187.761624 |
| | 22:38:00 | 22:38:00 | | 39.2 | 47.7 | 33.6 | 9:52:15 AM | 39.2 | 8317.637711 |
| | 22:39:00 | 22:39:00 | | 37.8 | 43.6 | 34.1 | 9:53:15 AM | 37.8 | 6025.595861 |
| | 22:40:00 | 22:40:00 | | 35.9 | 38.7 | 33.8 | 9:54:15 AM | 35.9 | 3890.45145 |
| | 22:41:00 | 22:41:00 | | 35.7 | 40.2 | 34.1 | 9:55:15 AM | 35.7 | 3715.352291 |
| | 22:42:00 | 22:42:00 | | 42.2 | 48.8 | 35.6 | 9:56:15 AM | 42.2 | 16595.86907 |
| | 22:43:00 | 22:43:00 | | 40.3 | 47.8 | 35.7 | 9:57:15 AM | 40.3 | 10715.19305 |
| | 22:44:00 | 22:44:00 | | 42.7 | 46.4 | 39.5 | 9:58:15 AM | 42.7 | 18620.87137 |
| | 22:45:00 | 22:45:00 | | 40.7 | 45 | 36.8 | 9:59:15 AM | 40.7 | 11748.97555 |
| | 22:46:00 | 22:46:00 | | 53.3 | 61.8 | 39.9 | 10:00:15 AM | 53.3 | 213796.209 |
| | 22:47:00 | 22:47:00 | | 47.1 | 53.7 | 37.1 | 10:01:15 AM | 47.1 | 51286.1384 |
| | 22:48:00 | 22:48:00 | | 42.1 | 47.6 | 37 | 10:02:15 AM | 42.1 | 16218.10097 |
| | 22:49:00 | 22:49:00 | | 40.3 | 47.4 | 35.7 | 10:03:15 AM | 40.3 | 10715.19305 |
| | 22:50:00 | 22:50:00 | | 36.9 | 40.2 | 34.2 | 10:04:15 AM | 36.9 | 4897.788194 |
| | 22:51:00 | 22:51:00 | | 44 | 54.8 | 33.8 | 10:05:15 AM | 44 | 25118.86432 |
| | 22:52:00 | 22:52:00 | | 47.5 | 55 | 40.6 | 10:06:15 AM | 47.5 | 56234.13252 |
| | 22:53:00 | 22:53:00 | | 45.7 | 49 | 41.1 | 10:07:15 AM | 45.7 | 37153.52291 |
| | 22:54:00 | 22:54:00 | | 40.7 | 46.8 | 37.2 | 10:08:15 AM | 40.7 | 11748.97555 |
| | 22:55:00 | 22:55:00 | | 42.3 | 48.5 | 37.6 | 10:09:15 AM | 42.3 | 16982.43652 |
| | 22:56:00 | 22:56:00 | | 36.7 | 40.6 | 33.3 | 10:10:15 AM | 36.7 | 4677.351413 |
| | 22:57:00 | 22:57:00 | | 37 | 41.4 | 34 | 10:11:15 AM | 37 | 5011.872336 |
| | 22:58:00 | 22:58:00 | | 37 | 42.7 | 34.4 | 10:12:15 AM | 37 | 5011.872336 |
| | 22:59:00 | 22:59:00 | | 43.9 | 52.8 | 35.1 | 10:13:15 AM | 43.9 | 24547.08916 |
| | 23:00:00 | 23:00:00 | | 42.9 | 49.3 | 35.8 | 10:14:15 AM | 42.9 | 19498.446 |
| | 23:01:00 | 23:01:00 | | 65.4 | 75.5 | 44.1 | 10:15:15 AM | 65.4 | 3467368.505 |
| | 23:02:00 | 23:02:00 | | 50.9 | 60 | 37.6 | 10:16:15 AM | 50.9 | 123026.8771 |
| | 23:03:00 | 23:03:00 | | 38.4 | 43.4 | 35 | 10:17:15 AM | 38.4 | 6918.309709 |
| | 23:04:00 | 23:04:00 | | 39.1 | 44.9 | 35.1 | 10:18:15 AM | 39.1 | 8128.305162 |
| | 23:05:00 | 23:05:00 | | 40.5 | 43.5 | 37.8 | 10:19:15 AM | 40.5 | 11220.18454 |
| | 23:06:00 | 23:06:00 | | 40.2 | 44.2 | 37 | 10:20:15 AM | 40.2 | 10471.28548 |
| | 23:07:00 | 23:07:00 | | 41.7 | 50 | 36.4 | 10:21:15 AM | 41.7 | 14791.08388 |
| | 23:08:00 | 23:08:00 | | 44.9 | 53.3 | 37.6 | 10:22:15 AM | 44.9 | 30902.95433 |
| | 23:09:00 | 23:09:00 | | 41.7 | 52.1 | 35.9 | 10:23:15 AM | 41.7 | 14791.08388 |
| | 23:10:00 | 23:10:00 | | 40.3 | 47.3 | 34.5 | 10:24:15 AM | 40.3 | 10715.19305 |
| | 23:11:00 | 23:11:00 | | 38 | 41.8 | 35.5 | 10:25:15 AM | 38 | 6309.573445 |
| | 23:12:00 | 23:12:00 | | 37.7 | 43.3 | 34.8 | 10:26:15 AM | 37.7 | 5888.436554 |
| | 23:13:00 | 23:13:00 | | 37.8 | 42.6 | 34.6 | 10:27:15 AM | 37.8 | 6025.595861 |
| | 23:14:00 | 23:14:00 | | 38.3 | 41.7 | 34.2 | 10:28:15 AM | 38.3 | 6760.829754 |
| | 23:15:00 | 23:15:00 | | 36.7 | 40.6 | 34.8 | 10:29:15 AM | 36.7 | 4677.351413 |
| | 23:16:00 | 23:16:00 | | 39.5 | 42.4 | 36 | 10:30:15 AM | 39.5 | 8912.509381 |
| | 23:17:00 | 23:17:00 | | 39.3 | 44.1 | 35.7 | 10:31:15 AM | 39.3 | 8511.380382 |
| | 23:18:00 | 23:18:00 | | 41.2 | 47.2 | 36.4 | 10:32:15 AM | 41.2 | 13182.56739 |
| | 23:19:00 | 23:19:00 | | 38.5 | 43.9 | 35.7 | 10:33:15 AM | 38.5 | 7079.457844 |
| | 23:20:00 | 23:20:00 | | 38.5 | 43.5 | 35 | 10:34:15 AM | 38.5 | 7079.457844 |
| | 23:21:00 | 23:21:00 | | 39.4 | 43.4 | 35.9 | 10:35:15 AM | 39.4 | 8709.6359 |
| | 23:22:00 | 23:22:00 | | 37.4 | 41.2 | 34.3 | 10:36:15 AM | 37.4 | 5495.408739 |
| | 23:23:00 | 23:23:00 | | 37 | 40.3 | 34.3 | 10:37:15 AM | 37 | 5011.872336 |

# Ambient Noise Data

Long-Duration (24-Hour) Measurement



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | Time | Day-Night ($L_{dn}$) Adjusted dBA's | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|
| | 23:24:00 | 23:24:00 | | 37.9 | 42 | 34.5 | 10:38:15 AM | 37.9 | 6165.950019 |
| | 23:25:00 | 23:25:00 | | 39.3 | 43.6 | 34 | 10:39:15 AM | 39.3 | 8511.380382 |
| | 23:26:00 | 23:26:00 | | 38.5 | 43.2 | 35 | 10:40:15 AM | 38.5 | 7079.457844 |
| | 23:27:00 | 23:27:00 | | 40 | 45.1 | 35.6 | 10:41:15 AM | 40 | 10000 |
| | 23:28:00 | 23:28:00 | | 41.6 | 49.1 | 37.5 | 10:42:15 AM | 41.6 | 14454.39771 |
| | 23:29:00 | 23:29:00 | | 50.9 | 57.1 | 46.2 | 10:43:15 AM | 50.9 | 123026.8771 |
| | 23:30:00 | 23:30:00 | | 57.7 | 64.7 | 45.7 | 10:44:15 AM | 57.7 | 588843.6554 |
| | 23:31:00 | 23:31:00 | | 47.2 | 53.1 | 40.1 | 10:45:15 AM | 47.2 | 52480.74602 |
| | 23:32:00 | 23:32:00 | | 42.9 | 50.6 | 38.2 | 10:46:15 AM | 42.9 | 19498.446 |
| | 23:33:00 | 23:33:00 | | 46.6 | 52.1 | 40.6 | 10:47:15 AM | 46.6 | 45708.81896 |
| | 23:34:00 | 23:34:00 | | 51.3 | 58.5 | 44.1 | 10:48:15 AM | 51.3 | 134896.2883 |
| | 23:35:00 | 23:35:00 | | 50.7 | 56.7 | 42 | 10:49:15 AM | 50.7 | 117489.7555 |
| | 23:36:00 | 23:36:00 | | 42.9 | 48.1 | 37.3 | 10:50:15 AM | 42.9 | 19498.446 |
| | 23:37:00 | 23:37:00 | | 37.3 | 38.5 | 35.8 | 10:51:15 AM | 37.3 | 5370.317964 |
| | 23:38:00 | 23:38:00 | | 39 | 43.7 | 35.9 | 10:52:15 AM | 39 | 7943.282347 |
| | 23:39:00 | 23:39:00 | | 39.1 | 42.9 | 35.2 | 10:53:15 AM | 39.1 | 8128.305162 |
| | 23:40:00 | 23:40:00 | | 43.8 | 54.3 | 36.9 | 10:54:15 AM | 43.8 | 23988.32919 |
| | 23:41:00 | 23:41:00 | | 50.5 | 56.1 | 44.4 | 10:55:15 AM | 50.5 | 112201.8454 |
| | 23:42:00 | 23:42:00 | | 42.3 | 48.6 | 37.4 | 10:56:15 AM | 42.3 | 16982.43652 |
| | 23:43:00 | 23:43:00 | | 40 | 47.6 | 34.8 | 10:57:15 AM | 40 | 10000 |
| | 23:44:00 | 23:44:00 | | 40.1 | 45.4 | 34.6 | 10:58:15 AM | 40.1 | 10232.92992 |
| | 23:45:00 | 23:45:00 | | 38.3 | 42 | 34.4 | 10:59:15 AM | 38.3 | 6760.829754 |
| | 23:46:00 | 23:46:00 | | 38.5 | 42.2 | 35.5 | 11:00:15 AM | 38.5 | 7079.457844 |
| | 23:47:00 | 23:47:00 | | 38.8 | 46.3 | 34.3 | 11:01:15 AM | 38.8 | 7585.77575 |
| | 23:48:00 | 23:48:00 | | 37.7 | 41.9 | 34.9 | 11:02:15 AM | 37.7 | 5888.436554 |
| | 23:49:00 | 23:49:00 | | 42.8 | 51.5 | 36.5 | 11:03:15 AM | 42.8 | 19054.60718 |
| | 23:50:00 | 23:50:00 | | 55.7 | 64.3 | 42.8 | 11:04:15 AM | 55.7 | 371535.2291 |
| | 23:51:00 | 23:51:00 | | 39.8 | 47.7 | 33.4 | 11:05:15 AM | 39.8 | 9549.92586 |
| | 23:52:00 | 23:52:00 | | 36.5 | 41.3 | 33.8 | 11:06:15 AM | 36.5 | 4466.835922 |
| | 23:53:00 | 23:53:00 | | 37.2 | 44.1 | 34.4 | 11:07:15 AM | 37.2 | 5248.074602 |
| | 23:54:00 | 23:54:00 | | 37 | 41.4 | 33.9 | 11:08:15 AM | 37 | 5011.872336 |
| | 23:55:00 | 23:55:00 | | 38.6 | 42 | 34.5 | 11:09:15 AM | 38.6 | 7244.359601 |
| | 23:56:00 | 23:56:00 | | 37.1 | 40.7 | 35.2 | 11:10:15 AM | 37.1 | 5128.61384 |
| | 23:57:00 | 23:57:00 | | 37.8 | 42.4 | 33.7 | 11:11:15 AM | 37.8 | 6025.595861 |
| | 23:58:00 | 23:58:00 | | 36.6 | 40.8 | 33.8 | 11:12:15 AM | 36.6 | 4570.881896 |
| | 23:59:00 | 23:59:00 | | 37.6 | 45.1 | 34.5 | 11:13:15 AM | 37.6 | 5754.399373 |
| | 24:00:00 | 24:00:00 | | 35.8 | 38.6 | 34.3 | 11:14:15 AM | 35.8 | 3801.893963 |

# Ambient Noise Data

Short-Duration (1-Hour) Measurements



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 | | | | $10^{(X/10)}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| **Study #2** | 0:01:00 | 0:01:00 | | 54.6 | 60.4 | 48.1 | | **Time** | | 288403.15 |
| (1-Hour) | 0:02:00 | 0:02:00 | | 54.6 | 62.2 | 48.2 | Start | 3:08:43 PM | 5/23/2019 | 288403.15 |
| | 0:03:00 | 0:03:00 | | 58.8 | 66.5 | 49.6 | Stop | 4:08:43 PM | 5/23/2019 | 758577.58 |
| | 0:04:00 | 0:04:00 | | 58.1 | 65.2 | 50.7 | | | | 645654.23 |
| | 0:05:00 | 0:05:00 | | 56.8 | 64.1 | 49.6 | | | | 478630.09 |
| | 0:06:00 | 0:06:00 | | 52.9 | 58.9 | 46.3 | | | | 194984.46 |
| | 0:07:00 | 0:07:00 | | 50.4 | 59 | 45.4 | **$L_{eq}$ (1-Hour):** | 56.4 | **dBA** | 109647.82 |
| | 0:08:00 | 0:08:00 | | 53.2 | 60.4 | 45.5 | | | | 208929.61 |
| | 0:09:00 | 0:09:00 | | 54.9 | 61.5 | 46.5 | | | | 309029.54 |
| | 0:10:00 | 0:10:00 | | 51.7 | 58.5 | 46.9 | | | | 147910.84 |
| | 0:11:00 | 0:11:00 | | 54.5 | 64.5 | 47.8 | | | | 281838.29 |
| | 0:12:00 | 0:12:00 | | 57 | 66.7 | 50.2 | | | | 501187.23 |
| | 0:13:00 | 0:13:00 | | 51.1 | 57.3 | 47.1 | | | | 128824.96 |
| | 0:14:00 | 0:14:00 | | 65.4 | 74.6 | 52.8 | | | | 3467368.50 |
| | 0:15:00 | 0:15:00 | | 48.2 | 54.1 | 45.9 | | | | 66069.34 |
| | 0:16:00 | 0:16:00 | | 50.8 | 56.7 | 46.4 | | | | 120226.44 |
| | 0:17:00 | 0:17:00 | | 52.6 | 57.7 | 47.5 | | | | 181970.09 |
| | 0:18:00 | 0:18:00 | | 55.3 | 62.4 | 46.9 | | | | 338844.16 |
| | 0:19:00 | 0:19:00 | | 55.8 | 65 | 46.4 | | | | 380189.40 |
| | 0:20:00 | 0:20:00 | | 57.9 | 65 | 47.9 | | | | 616595.00 |
| | 0:21:00 | 0:21:00 | | 55.3 | 61.7 | 47.6 | | | | 338844.16 |
| | 0:22:00 | 0:22:00 | | 53.8 | 61.2 | 46.8 | | | | 239883.29 |
| | 0:23:00 | 0:23:00 | | 51.6 | 57 | 46 | | | | 144543.98 |
| | 0:24:00 | 0:24:00 | | 51.8 | 60.1 | 45.5 | | | | 151356.12 |
| | 0:25:00 | 0:25:00 | | 58.2 | 67.6 | 46.5 | | | | 660693.45 |
| | 0:26:00 | 0:26:00 | | 58.1 | 66.7 | 49.4 | | | | 645654.23 |
| | 0:27:00 | 0:27:00 | | 52.8 | 58 | 47.6 | | | | 190546.07 |
| | 0:28:00 | 0:28:00 | | 49.8 | 55.4 | 46.6 | | | | 95499.26 |
| | 0:29:00 | 0:29:00 | | 51.3 | 57.2 | 46.5 | | | | 134896.29 |
| | 0:30:00 | 0:30:00 | | 55.8 | 64.7 | 47.7 | | | | 380189.40 |
| | 0:31:00 | 0:31:00 | | 53.4 | 58.5 | 48.4 | | | | 218776.16 |
| | 0:32:00 | 0:32:00 | | 50.6 | 56.8 | 47 | | | | 114815.36 |
| | 0:33:00 | 0:33:00 | | 55.2 | 64.1 | 47.4 | | | | 331131.12 |
| | 0:34:00 | 0:34:00 | | 57.2 | 65 | 47.5 | | | | 524807.46 |
| | 0:35:00 | 0:35:00 | | 62.9 | 71.1 | 52.4 | | | | 1949844.60 |
| | 0:36:00 | 0:36:00 | | 55.8 | 62.7 | 48 | | | | 380189.40 |
| | 0:37:00 | 0:37:00 | | 52.8 | 59.4 | 46.9 | | | | 190546.07 |
| | 0:38:00 | 0:38:00 | | 49.9 | 56.4 | 46.5 | | | | 97723.72 |
| | 0:39:00 | 0:39:00 | | 53.3 | 58.7 | 46.2 | | | | 213796.21 |
| | 0:40:00 | 0:40:00 | | 55.6 | 63.7 | 47.6 | | | | 363078.05 |
| | 0:41:00 | 0:41:00 | | 53.7 | 60.1 | 49.4 | | | | 234422.88 |
| | 0:42:00 | 0:42:00 | | 53 | 59.1 | 46.3 | | | | 199526.23 |
| | 0:43:00 | 0:43:00 | | 52 | 58.5 | 46 | | | | 158489.32 |
| | 0:44:00 | 0:44:00 | | 51.6 | 57.6 | 46.3 | | | | 144543.98 |
| | 0:45:00 | 0:45:00 | | 54 | 60 | 46.9 | | | | 251188.64 |
| | 0:46:00 | 0:46:00 | | 53.9 | 60.9 | 47.5 | | | | 245470.89 |
| | 0:47:00 | 0:47:00 | | 58.3 | 65.2 | 51.7 | | | | 676082.98 |
| | 0:48:00 | 0:48:00 | | 56.8 | 63 | 48.1 | | | | 478630.09 |
| | 0:49:00 | 0:49:00 | | 58.9 | 70.1 | 46.8 | | | | 776247.12 |
| | 0:50:00 | 0:50:00 | | 58 | 64.2 | 47.6 | | | | 630957.34 |
| | 0:51:00 | 0:51:00 | | 58.1 | 66.4 | 50.2 | | | | 645654.23 |
| | 0:52:00 | 0:52:00 | | 54 | 62.4 | 47.7 | | | | 251188.64 |
| | 0:53:00 | 0:53:00 | | 63 | 69.7 | 53.1 | | | | 1995262.31 |
| | 0:54:00 | 0:54:00 | | 55 | 61.3 | 47.5 | | | | 316227.77 |
| | 0:55:00 | 0:55:00 | | 56 | 65.3 | 47 | | | | 398107.17 |
| | 0:56:00 | 0:56:00 | | 57.8 | 65 | 49.2 | | | | 602559.59 |
| | 0:57:00 | 0:57:00 | | 52.1 | 58.5 | 46 | | | | 162181.01 |
| | 0:58:00 | 0:58:00 | | 53.5 | 58.5 | 46.6 | | | | 223872.11 |
| | 0:59:00 | 0:59:00 | | 57 | 64.3 | 47.9 | | | | 501187.23 |
| | 1:00:00 | 1:00:00 | | 52.9 | 59.7 | 48.9 | | | | 194984.46 |

# Ambient Noise Data

Short-Duration (1-Hour) Measurements



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 |
|---|---|---|---|---|---|---|
| **Study #3** | 0:01:00 | 1:01:00 | | 66.3 | 75.1 | 54.6 |
| (1-Hour) | 0:02:00 | 1:02:00 | | 63.6 | 68.9 | 51.6 |
| | 0:03:00 | 1:03:00 | | 64.3 | 70.9 | 52.9 |
| | 0:04:00 | 1:04:00 | | 63.3 | 70.5 | 55.2 |
| | 0:05:00 | 1:05:00 | | 62.6 | 68.3 | 52.1 |
| | 0:06:00 | 1:06:00 | | 60.7 | 68.4 | 51.1 |
| | 0:07:00 | 1:07:00 | | 61 | 68.1 | 51.3 |
| | 0:08:00 | 1:08:00 | | 61.1 | 65.9 | 53.4 |
| | 0:09:00 | 1:09:00 | | 58.5 | 67 | 48.8 |
| | 0:10:00 | 1:10:00 | | 61.8 | 65.1 | 55.2 |
| | 0:11:00 | 1:11:00 | | 64.6 | 71.4 | 57.3 |
| | 0:12:00 | 1:12:00 | | 56.8 | 62.6 | 49.6 |
| | 0:13:00 | 1:13:00 | | 55.6 | 61.4 | 48.6 |
| | 0:14:00 | 1:14:00 | | 54.5 | 62.2 | 45.6 |
| | 0:15:00 | 1:15:00 | | 57.4 | 63.8 | 47.4 |
| | 0:16:00 | 1:16:00 | | 54.4 | 61.3 | 45.9 |
| | 0:17:00 | 1:17:00 | | 54 | 60.4 | 45 |
| | 0:18:00 | 1:18:00 | | 59.3 | 65.4 | 52.8 |
| | 0:19:00 | 1:19:00 | | 62.4 | 74.7 | 48.9 |
| | 0:20:00 | 1:20:00 | | 59.4 | 66.1 | 48.7 |
| | 0:21:00 | 1:21:00 | | 55 | 62.2 | 45.8 |
| | 0:22:00 | 1:22:00 | | 56.2 | 61 | 48.4 |
| | 0:23:00 | 1:23:00 | | 56.8 | 64.3 | 44.9 |
| | 0:24:00 | 1:24:00 | | 60.1 | 65.9 | 48.5 |
| | 0:25:00 | 1:25:00 | | 58.6 | 65.1 | 52.1 |
| | 0:26:00 | 1:26:00 | | 52.7 | 60.3 | 44.8 |
| | 0:27:00 | 1:27:00 | | 62.1 | 73 | 44.3 |
| | 0:28:00 | 1:28:00 | | 63.9 | 70.4 | 51.3 |
| | 0:29:00 | 1:29:00 | | 62.1 | 68.2 | 51.5 |
| | 0:30:00 | 1:30:00 | | 62.6 | 69.9 | 54.1 |
| | 0:31:00 | 1:31:00 | | 62.5 | 69.8 | 53.7 |
| | 0:32:00 | 1:32:00 | | 59.1 | 66.6 | 50.3 |
| | 0:33:00 | 1:33:00 | | 61.4 | 66.5 | 49.4 |
| | 0:34:00 | 1:34:00 | | 58.9 | 65 | 50.4 |
| | 0:35:00 | 1:35:00 | | 59.4 | 65.7 | 48.6 |
| | 0:36:00 | 1:36:00 | | 61.1 | 66.5 | 52.6 |
| | 0:37:00 | 1:37:00 | | 64.2 | 70.7 | 55.2 |
| | 0:38:00 | 1:38:00 | | 69.1 | 75.2 | 62.1 |
| | 0:39:00 | 1:39:00 | | 62.8 | 68.9 | 51.3 |
| | 0:40:00 | 1:40:00 | | 63.8 | 73.8 | 49.2 |
| | 0:41:00 | 1:41:00 | | 62.9 | 69.5 | 54.6 |
| | 0:42:00 | 1:42:00 | | 58.8 | 67.7 | 48.9 |
| | 0:43:00 | 1:43:00 | | 60.9 | 67.8 | 50.9 |
| | 0:44:00 | 1:44:00 | | 63.6 | 70.4 | 53.2 |
| | 0:45:00 | 1:45:00 | | 64 | 67.8 | 54.8 |
| | 0:46:00 | 1:46:00 | | 67.3 | 72.4 | 53.5 |
| | 0:47:00 | 1:47:00 | | 65.4 | 72.8 | 54 |
| | 0:48:00 | 1:48:00 | | 60.1 | 63.6 | 53.4 |
| | 0:49:00 | 1:49:00 | | 52.5 | 60.8 | 45 |
| | 0:50:00 | 1:50:00 | | 50.2 | 55.7 | 44.3 |
| | 0:51:00 | 1:51:00 | | 64 | 75.4 | 47.8 |
| | 0:52:00 | 1:52:00 | | 66.3 | 73.2 | 56.5 |
| | 0:53:00 | 1:53:00 | | 60 | 66.3 | 53.2 |
| | 0:54:00 | 1:54:00 | | 59 | 66.5 | 47.9 |
| | 0:55:00 | 1:55:00 | | 58.7 | 65 | 48.3 |
| | 0:56:00 | 1:56:00 | | 59.9 | 67.1 | 47.3 |
| | 0:57:00 | 1:57:00 | | 63 | 70.7 | 50.2 |
| | 0:58:00 | 1:58:00 | | 62.4 | 68.1 | 53.8 |
| | 0:59:00 | 1:59:00 | | 58.2 | 62.8 | 50.2 |
| | 1:00:00 | 2:00:00 | | 63.4 | 69 | 49.9 |

| | Time | | $10^{(X/10)}$ |
|---|---|---|---|
| | | | 4265795.19 |
| Start | 4:16:52 PM | 5/23/2019 | 2290867.65 |
| Stop | 5:16:52 PM | 5/23/2019 | 2691534.80 |
| | | | 2137962.09 |
| | | | 1819700.86 |
| | | | 1174897.55 |
| **$L_{eq}$ (1-Hour):** | 62.0 | **dBA** | 1258925.41 |
| | | | 1288249.55 |
| | | | 707945.78 |
| | | | 1513561.25 |
| | | | 2884031.50 |
| | | | 478630.09 |
| | | | 363078.05 |
| | | | 281838.29 |
| | | | 549540.87 |
| | | | 275422.87 |
| | | | 251188.64 |
| | | | 851138.04 |
| | | | 1737800.83 |
| | | | 870963.59 |
| | | | 316227.77 |
| | | | 416869.38 |
| | | | 478630.09 |
| | | | 1023292.99 |
| | | | 724435.96 |
| | | | 186208.71 |
| | | | 1621810.10 |
| | | | 2454708.92 |
| | | | 1621810.10 |
| | | | 1819700.86 |
| | | | 1778279.41 |
| | | | 812830.52 |
| | | | 1380384.26 |
| | | | 776247.12 |
| | | | 870963.59 |
| | | | 1288249.55 |
| | | | 2630267.99 |
| | | | 8128305.16 |
| | | | 1905460.72 |
| | | | 2398832.92 |
| | | | 1949844.60 |
| | | | 758577.58 |
| | | | 1230268.77 |
| | | | 2290867.65 |
| | | | 2511886.43 |
| | | | 5370317.96 |
| | | | 3467368.50 |
| | | | 1023292.99 |
| | | | 177827.94 |
| | | | 104712.85 |
| | | | 2511886.43 |
| | | | 4265795.19 |
| | | | 1000000.00 |
| | | | 794328.23 |
| | | | 741310.24 |
| | | | 977237.22 |
| | | | 1995262.31 |
| | | | 1737800.83 |
| | | | 660693.45 |
| | | | 2187761.62 |

# Ambient Noise Data

Short-Duration (1-Hour) Measurements



| Study | Study Time | Session Time | OL Status | $L_{avg}$ Meter1 | $L_{max}$ Meter1 | $L_{min}$ Meter1 |
|---|---|---|---|---|---|---|
| **Study #4** (1-Hour) | 0:01:00 | 0:01:00 | | 38.1 | 47.1 | 32 |
| | 0:02:00 | 0:02:00 | | 38.9 | 46.4 | 32.2 |
| | 0:03:00 | 0:03:00 | | 35.4 | 41.4 | 31.7 |
| | 0:04:00 | 0:04:00 | | 34.3 | 40.7 | 30.2 |
| | 0:05:00 | 0:05:00 | | 35.8 | 44.5 | 31 |
| | 0:06:00 | 0:06:00 | | 34.5 | 40.3 | 31.2 |
| | 0:07:00 | 0:07:00 | | 37.5 | 44.9 | 31.7 |
| | 0:08:00 | 0:08:00 | | 35.8 | 39 | 33.4 |
| | 0:09:00 | 0:09:00 | | 36.5 | 40 | 32.8 |
| | 0:10:00 | 0:10:00 | | 36.7 | 43.6 | 33.1 |
| | 0:11:00 | 0:11:00 | | 36.1 | 43.1 | 31.5 |
| | 0:12:00 | 0:12:00 | | 33.7 | 41.3 | 30.8 |
| | 0:13:00 | 0:13:00 | | 34.9 | 40.1 | 31.2 |
| | 0:14:00 | 0:14:00 | | 35.1 | 38.6 | 31.8 |
| | 0:15:00 | 0:15:00 | | 34.1 | 39.1 | 30.8 |
| | 0:16:00 | 0:16:00 | | 38 | 44.6 | 31 |
| | 0:17:00 | 0:17:00 | | 54.3 | 60.6 | 41.9 |
| | 0:18:00 | 0:18:00 | | 57 | 64.7 | 43.7 |
| | 0:19:00 | 0:19:00 | | 50.6 | 58.7 | 42.3 |
| | 0:20:00 | 0:20:00 | | 41.4 | 48.1 | 36.4 |
| | 0:21:00 | 0:21:00 | | 41 | 48.5 | 33.6 |
| | 0:22:00 | 0:22:00 | | 37.6 | 47 | 31.4 |
| | 0:23:00 | 0:23:00 | | 43.3 | 53.7 | 32.6 |
| | 0:24:00 | 0:24:00 | | 51.8 | 57.3 | 44.7 |
| | 0:25:00 | 0:25:00 | | 43.4 | 48 | 35.5 |
| | 0:26:00 | 0:26:00 | | 34.7 | 40 | 29.9 |
| | 0:27:00 | 0:27:00 | | 34.4 | 42 | 30.2 |
| | 0:28:00 | 0:28:00 | | 31 | 36.2 | 28.7 |
| | 0:29:00 | 0:29:00 | | 34.7 | 40 | 30 |
| | 0:30:00 | 0:30:00 | | 42.1 | 50.6 | 31.3 |
| | 0:31:00 | 0:31:00 | | 40.8 | 46.9 | 33.7 |
| | 0:32:00 | 0:32:00 | | 34.7 | 40.7 | 31 |
| | 0:33:00 | 0:33:00 | | 31.5 | 33.5 | 29.5 |
| | 0:34:00 | 0:34:00 | | 31.5 | 35.3 | 29.5 |
| | 0:35:00 | 0:35:00 | | 34.2 | 38.8 | 31.1 |
| | 0:36:00 | 0:36:00 | | 32.4 | 36.9 | 29.8 |
| | 0:37:00 | 0:37:00 | | 30.6 | 35.3 | 28.9 |
| | 0:38:00 | 0:38:00 | | 34.5 | 39.4 | 30.2 |
| | 0:39:00 | 0:39:00 | | 32.6 | 37.4 | 30.2 |
| | 0:40:00 | 0:40:00 | | 39.5 | 43.7 | 31.4 |
| | 0:41:00 | 0:41:00 | | 39.4 | 45.4 | 32.9 |
| | 0:42:00 | 0:42:00 | | 33.7 | 36.9 | 30.9 |
| | 0:43:00 | 0:43:00 | | 36.1 | 43.9 | 30.5 |
| | 0:44:00 | 0:44:00 | | 33.6 | 39.2 | 30.8 |
| | 0:45:00 | 0:45:00 | | 33.4 | 39.2 | 30.4 |
| | 0:46:00 | 0:46:00 | | 33.7 | 37.6 | 31.3 |
| | 0:47:00 | 0:47:00 | | 33.5 | 37.7 | 31.1 |
| | 0:48:00 | 0:48:00 | | 34.1 | 38.5 | 31.5 |
| | 0:49:00 | 0:49:00 | | 35.6 | 39.8 | 31.7 |
| | 0:50:00 | 0:50:00 | | 44.3 | 52.7 | 33.9 |
| | 0:51:00 | 0:51:00 | | 55.5 | 66 | 39.5 |
| | 0:52:00 | 0:52:00 | | 40.6 | 49.7 | 33.7 |
| | 0:53:00 | 0:53:00 | | 33.3 | 41.8 | 30.8 |
| | 0:54:00 | 0:54:00 | | 34.5 | 40.2 | 30.5 |
| | 0:55:00 | 0:55:00 | | 39.3 | 47.7 | 32.8 |
| | 0:56:00 | 0:56:00 | | 38.3 | 44.5 | 32.3 |
| | 0:57:00 | 0:57:00 | | 35.2 | 41.3 | 31.1 |
| | 0:58:00 | 0:58:00 | | 37.9 | 49.6 | 32 |
| | 0:59:00 | 0:59:00 | | 39.5 | 44.6 | 33.7 |
| | 1:00:00 | 1:00:00 | | 40.1 | 46 | 33.6 |

**Time**

Start 10:23:25 AM 5/25/2019

Stop 11:23:25 AM 5/25/2019

**$L_{eq}$ (1-Hour):** 44.6 **dBA**

| $10^{(X/10)}$ |
|---|
| 6456.54 |
| 7762.47 |
| 3467.37 |
| 2691.53 |
| 3801.89 |
| 2818.38 |
| 5623.41 |
| 3801.89 |
| 4466.84 |
| 4677.35 |
| 4073.80 |
| 2344.23 |
| 3090.30 |
| 3235.94 |
| 2570.40 |
| 6309.57 |
| 269153.48 |
| 501187.23 |
| 114815.36 |
| 13803.84 |
| 12589.25 |
| 5754.40 |
| 21379.62 |
| 151356.12 |
| 21877.62 |
| 2951.21 |
| 2754.23 |
| 1258.93 |
| 2951.21 |
| 16218.10 |
| 12022.64 |
| 2951.21 |
| 1412.54 |
| 1412.54 |
| 2630.27 |
| 1737.80 |
| 1148.15 |
| 2818.38 |
| 1819.70 |
| 8912.51 |
| 8709.64 |
| 2344.23 |
| 4073.80 |
| 2290.87 |
| 2187.76 |
| 2344.23 |
| 2238.72 |
| 2570.40 |
| 3630.78 |
| 26915.35 |
| 354813.39 |
| 11481.54 |
| 2137.96 |
| 2818.38 |
| 8511.38 |
| 6760.83 |
| 3311.31 |
| 6165.95 |
| 8912.51 |
| 10232.93 |