PRELIMINARY DESIGN NOISE IMPACT ANALYSIS TECHNICAL REPORT

Van Buren Road Extension From Route 234 (Dumfries Road) to Cardinal Drive

UPC: 118643
PRINCE WILLIAM COUNTY, VIRGINIA

PREPARED FOR

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1.0 EXECUTIVE SUMMARY

This report describes the details of a preliminary design noise impact assessment completed for the proposed Van Buren Road Extension (Route 234 (Dumfries Road) to Cardinal Drive) in Prince William County, Virginia (**Figure 1**). The noise analysis was conducted in accordance with Federal Highway Administration (FHWA) and Virginia Department of Transportation (VDOT) noise assessment regulations and guidelines. The FHWA regulations are set forth in 23 CFR Part 772. VDOT's revised policy was updated most recently on February 20, 2018.

The scope of the proposed Van Buren Road Extension project involves constructing a four-lane divided roadway on new alignment connecting Dumfries Road and Cardinal Drive. The project also includes a shared-use path along the southbound travel lanes, and a connector road connecting Van Buren Road to Old Stage Road between the Comfort Inn and Hampton Inn hotels.

The study involved monitoring of existing noise conditions (2021) and modeling of existing conditions (2020) and future design year (2040) build conditions in the study area with the FHWA-approved computerized Traffic Noise Model. The worst-case noise hour was established for the analysis using VDOT's ENTRADA traffic modeling software. A total of 250 receptors representing 250 noise-sensitive sites were modeled within 6 Common Noise Environments (CNEs) in the project study area. These 250 modeled sites include single family residential dwellings units, a recreational trail (20 trail units), one school, and two hotel patios/outdoor seating areas.

Table 1 provides a summary of existing and future noise levels and impacts for each CNE in the project study area. Impacts are predicted to occur for existing conditions in CNEs C, D, and E. Existing noise impacts were predicted at 10 receptors representing single family residences. The worst-case existing noise levels ranged from 41 to 71 dBA. The future design year (2040) build condition resulted in noise impacts in five CNEs (CNEs A, B, C, D and E). The design year build condition results in an average 3 dBA increase in the acoustical environment over existing conditions. The future design year (2040) build noise levels are predicted to range from 42 to 74 dBA. Future noise impacts were predicted at 28 receptor locations including 25 single-family residential dwelling units, and a community recreational trail (three receptors).

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TABLE 1
SUMMARY OF PREDICTED NOISE LEVELS FOR THE WORST HOUR

			Ran	_	f Predicted Exterior Noise Levels and Impacts for the Worst Hour				
		Activity		Exist	ting	2040 Build			
CNE	Land Use - Description	Activity Category	Sound Level (dBA)		Number of	Sound Level (dBA)		Number of	
			Min	Max	Impacts	Min	Max	Impacts	
А	Single Family Residences in the Copper Mill Estates	В	51	65	0	55	67	1	
В	Single Family Residences in the Four Seasons Community	В	44	56	0	45	59	0	
	Four Seasons Community Trail	С	43	53	0	50	65	3	
С	Single Family Residences in the Cardinal Grove Community north of Van Buren Road	В	45	71	7	48	74	15	
D	Single Family Residences in the Cardinal Grove Community south of Van Buren Road	В	45	66	2	49	69	7	
	Single Family Residences along Choate Court	В	49	68	1	51	70	2	
E	Fannie W Fitzgerald Elementary School (Interior)	D	4	1	0	4	12	0	
F	Hotel Patios at Comfort Inn and Hampton Inn Hotels	E	49	52	0	55	58	0	
	Total Impacted Receptor	s			10			28	

Noise abatement must be considered where noise impact is predicted to occur with the 2040 Build alternative. Noise abatement is evaluated to determine if it is warranted, feasible, and reasonable. **Table 2** summarizes the total length, estimated cost, and benefits that would be provided by the noise barriers that were evaluated in this study. Noise abatement was determined to not be feasible for three of the five CNEs (CNE B, CNE C, and CNE D) in which it was warranted. Noise abatement was not able to be evaluated for CNE A, the northern section of CNE C, and CNE E, as no roadway improvements are proposed for the roadways responsible for the noise impacts within these CNEs.

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TABLE 2
SUMMARY OF NOISE BARRIERS EVALUATED IN THIS STUDY

						NOISE I	BARRIER D	ETAILS			
CNE	BARRIER ID	NUMBER OF IMPACTED RECEPTORS	IMPACTED AND BENEFITED RECEPTORS	NON-IMPACTED AND BENEFITED RECEPTORS	LENGTH (FT)	AVERAGE HEIGHT (FT)	SURFACE AREA (SF)	COST AT \$42/SF	SURFACE AREA/ BENEFITED RECEPTOR (SF/BR) ¹	FEASIBLE?	REASONABLE?
С	Barrier C1	11	3	6	2,221	30	66,632	\$2,798,544	7,404	No	No
D	Barrier D1	7	0	2	1,151	30	34,544	\$1,450,848	17,272	No	No

¹ Where Square Feet/Benefitted Receptor (SF/BR) exceeds VDOT's maximum of 1,600, a noise barrier would not be considered cost-reasonable.

Although noise abatement consideration is warranted for CNE A, evaluation of modeling data determined that noise level increases predicted within CNE A are a result of increased traffic volumes on Dumfries Road and are not a result of the proposed Van Buren Road Extension project. To adequately mitigate for noise at the impacted receptor site, a noise barrier would need to be evaluated on Dumfries Road. However, since there are no roadway improvements proposed on Dumfries Road, a barrier on Dumfries Road was not evaluated as part of this project.

For the three noise impacts predicted to occur for the design year (2040) build condition within CNE B along the Four Seasons Community recreational trail, construction of a noise barrier was determined to not be feasible, as construction of a noise barrier would prohibit access to the 10' shared use path to be constructed adjacent to the southbound lanes of the Van Buren Road Extension. The functionality of the Four Seasons Community recreational trail in this location requires access to the proposed shared use path, affecting the feasibility of noise abatement.

Of the 15 noise impacts predicted within CNE C, 11 impacted receptors in the southern section of CNE C are a result of a combination of traffic noise from I-95 and Van Buren Road. A noise barrier evaluated between Van Buren Road and the 11 noise impacted receptors in the southern section of CNE C was determined to be not feasible. Elevated traffic noise levels at four impacted receptors in the northern section of CNE C are a result of increased traffic volumes on Cardinal Drive and are not a result of the proposed Van Buren Road Extension project. To

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adequately mitigate for noise at these four impacted receptor sites, a noise barrier would need to be evaluated on Cardinal Drive. However, since there are no roadway improvements proposed on Cardinal Drive, a barrier on Cardinal Drive was not evaluated as part of this project.

A noise barrier evaluated between Van Buren Road and the seven noise impacted receptors in CNE D was determined to be not feasible.

For the two noise impacts predicted to occur for the design year (2040) build condition within CNE E, evaluation of modeling data determined that noise level increases are a result of increased traffic volumes on Cardinal Drive and are not a result of the proposed Van Buren Road Extension project. To adequately mitigate for noise at the impacted receptor site, a noise barrier would need to be evaluated on Cardinal Drive. However, since there are no roadway improvements proposed on Cardinal Drive, a barrier on Cardinal Drive was not evaluated as part of this project.

A preliminary noise evaluation was performed, and a more detailed review will be completed during final design. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may also not be found to be feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction.

Construction activity may cause intermittent fluctuations in noise levels. During the construction phase of the project, all reasonable measures will be taken to minimize noise impact from these activities.

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2.0 INTRODUCTION

2.1 BACKGROUND AND PURPOSE

A preliminary engineering traffic noise analysis was performed for the Van Buren Road Extension Project in Prince William County, Virginia. All highway noise impact assessment procedures, noise abatement criteria, and documentation are in accordance with the Federal Highway Administration (FHWA) and Virginia Department of Transportation (VDOT) noise assessment regulations and guidelines. FHWA regulations for highway traffic noise for federal-aid highway projects are contained in Title 23 of the United States Code of Federal Regulations Part 772 (23 CFR 772), updated July 13, 2011. The current VDOT State Noise Abatement Policy became effective on July 13, 2011 and was updated on February 20, 2018. The FHWA regulations for mitigation of highway traffic noise in the planning and design of federally aided highway projects contained in 23 CFR 772 state that a "Type I" traffic noise impact analysis is required when there is the construction of a highway on new location.

This report documents a summary of the roadway improvements under study, a description of noise terminology, the applicable standards and criteria, the computations of existing and future noise levels, a projection of future noise levels, identification of potential noise impacts, evaluation of measures to mitigate noise impacts, noise abatement, a discussion of construction noise, and information to assist local officials.

2.2 PROJECT DESCRIPTION

The scope of the Van Buren Road Extension project involves constructing an extension of Van Buren Road on new alignment from its existing termini at the intersection with Dumfries Road (Route 234) north for approximately 2.5 miles to a portion of existing Van Buren Road directly south of Cardinal Drive. The project would construct a four-lane divided urban collector roadway. Construction of a 10-foot wide shared-use path and a 5-foot wide sidewalk would be included to provide non-motorized transportation alternatives. Van Buren Road would be completed in accordance with Urban Collector Street (GS-7) criteria with a design speed of 40 mph. The typical section for these improvements generally varies from 102 feet to 105 feet along the proposed corridor and includes curb and gutter and a raised median. The project would also include construction of an approximately 235' bridge spanning Powell's Creek perpendicular to the waterway and associated stormwater management facilities. The project area is located in

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the southeastern region of Prince William County, Virginia (Figure 1.1). This project is currently being funded by local Northern Virginia Transportation Authority (NVTA) funds. Future utilization of Federal Funds is anticipated for this project.

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3.0 METHODOLOGY

The Noise Control Act of 1972 gives the United States Environmental Protection Agency (U.S. EPA) the authority to establish noise regulations to control major noise sources, including motor vehicles and construction equipment. Furthermore, the U.S. EPA is required to set noise emission standards for motor vehicles used for interstate commerce and the FHWA is required to enforce the U.S. EPA noise emission standards through the Office of Motor Carrier Safety. The National Environmental Policy Act (NEPA) of 1969 gives broad authority and responsibility to federal agencies to evaluate and mitigate adverse environmental impacts caused by federal actions. FHWA is required to comply with NEPA, including mitigating adverse highway traffic noise effects. The Federal-Aid Highway Act of 1970 mandates FHWA to develop standards for mitigating highway traffic noise. It also requires FHWA to establish traffic noise level criteria for various types of land uses. The Act prohibits FHWA approval of federal aid highway projects unless adequate consideration has been made for noise abatement measures to comply with the standards. FHWA regulations for highway traffic noise for federal-aid highway projects are contained in 23 CFR 772. The regulations contain noise abatement criteria, which represent the maximum acceptable level of highway traffic noise for specific types of land uses. The regulations do not mandate that the abatement criteria be met in all situations but rather require that reasonable and feasible efforts be made to provide noise mitigation when the abatement criteria are approached or exceeded.

The State Noise Abatement Policy was developed to implement the requirements of 23 Code of Federal Regulations (CFR) Part 772 Procedures for Abatement of Highway Traffic Noise and Construction Noise (July 13, 2011), FHWA's Highway Traffic Noise Analysis and Abatement Policy and Guidance (December 2011), and the noise related requirements of The National Environmental Policy Act of 1969. The current VDOT State Noise Abatement Policy became effective on July 13, 2011 and was updated on February 20, 2018.

Noise is generally defined as unwanted or annoying sound. Airborne sound occurs by a rapid fluctuation of air pressure above and below atmospheric pressure. Sound pressure levels are usually measured and expressed in decibels (dB). The decibel scale is logarithmic and expresses the ratio of the sound pressure unit being measured to a standard reference level.

Most sounds occurring in the environment do not consist of a single frequency but rather a broad band of differing frequencies. The intensities of each frequency add to generate sound. Because the human ear does not respond to all frequencies equally, the method commonly used

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to quantify environmental noise consists of evaluating all of the frequencies of a sound according to a weighting system. It has been found that the A-weighted filter on a sound level meter, which includes circuits to differentially measure selected audible frequencies, best approximates the frequency response of the human ear.

Although the A-weighted noise level may adequately indicate the level of environmental noise at any instant in time, community noise levels vary continuously. Most environmental noise includes a conglomeration of noise from distant sources, creating a relatively steady background noise in which no particular source is identifiable. To describe the time-varying character of traffic noise, a statistical noise descriptor called the equivalent hourly sound level, or $L_{eq(h)}$, is commonly used. $L_{eq(h)}$ describes a noise-sensitive receptor's cumulative exposure from all noise-producing events over a one-hour period.

Because decibels are logarithmic units, sound levels cannot be added by ordinary arithmetic means. The following general relationships provide a basic understanding of sound generation and propagation.

- An increase, or decrease, of 10 dB will be perceived by a receptor to be a doubling, or halving, of the sound level.
- Doubling the distance between a highway and receptor will produce a 3 dB sound level decrease.
- A 3 dB sound level increase is barely detectable by the human ear.

3.1 NOISE ABATEMENT CRITERIA

The State Noise Abatement Policy has adopted the Noise Abatement Criteria (NAC) that have been established by FHWA (23 CFR 772) for determining traffic noise impacts for a variety of land uses. The NAC, listed in **Table 3** for various activities, represents the upper limit of acceptable traffic noise conditions and also a balancing of that which may be desirable with that which may be achievable. The NAC applies to areas having regular human use and where lowered noise levels are desired. They do not apply to the entire tract of land on which the activity is based, but only to that portion where the activity takes place. The NAC is given in terms of the hourly, A-weighted, equivalent sound level in decibels (dBA). The noise impact assessment is made using the guidelines listed in **Table 3**. The study area consists of exterior residential (Category B) land use, recreational trail (Category C), exterior commercial (Category E), the

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interior of public/institutional buildings (Category D), as well as other non-noise-sensitive land uses included in Category F and Category G (undeveloped).

TABLE 3
FHWA NOISE ABATEMENT CRITERIA
HOURLY A-WEIGHTED SOUND LEVEL DECIBELS (Leq(h) IN dBA)

Activity Category	Activity Criteria L _{eq(h)}	Evaluation Location	Activity Description
А	57	Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose
B*	67	Exterior	Residential
C*	67	Exterior	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, daycare centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings
D	52	Interior	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios
E*	72	Exterior	Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in A-D or F
F			Agriculture, airports, bus yards, emergency services, industrial, log- ging maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, elec- trical), and warehousing
G			Undeveloped lands that are not permitted

Source: 23 CFR Part 772

3.2 DEFINITION OF NOISE IMPACT

Traffic noise impacts occur if either of the following two conditions is met.

• The predicted traffic noise levels (future design year) approach or exceed the NAC, as shown in **Table 3**.

The VDOT State Noise Abatement Policy defines an approach level to be used when determining a traffic noise impact. The "Approach" level has been defined by VDOT as one dBA less than the Noise Abatement Criteria

^{*} Includes undeveloped lands permitted for this activity category

for Activity Categories A to E. For example, for a Category B receptor, 66 dBA would be approaching 67 dBA and would be considered an impact. If design year noise levels "approach or exceed" the NAC, then the activity is impacted, and a series of abatement measures must be considered.

 The predicted traffic noise levels are substantially higher than the existing noise levels.

A substantial noise increase has been defined by VDOT when the predicted (future design year) highway traffic noise levels exceed existing noise levels by 10 dBA or more for all noise-sensitive exterior activity categories. For example, if a receptor's existing noise level is 50 dBA and if the future noise level is 60 dBA, then it would be considered an impact. The noise levels of the substantial increase impact do not have to exceed the appropriate NAC. Receptors that satisfy this condition warrant consideration of highway traffic noise abatement.

If a traffic noise impact is identified within the project corridor, then consideration of noise abatement measures is necessary. The final decision on whether or not to provide noise abatement along a project corridor will take into account the feasibility of the design and overall cost weighted against the environmental benefit.

3.3 NOISE PREDICTION MODEL

Since roadway noise levels can be determined accurately through computer modeling techniques for areas that are dominated by road traffic, design year traffic noise calculations have been predicted using the FHWA's Traffic Noise Model (FHWA TNM) Version 2.5, which is the latest approved version. The FHWA TNM® was developed and sponsored by the U.S. Department of Transportation and John A. Volpe National Transportation Systems Center, Acoustics facility. The TNM estimates vehicle noise emissions and resulting noise levels based on reference energy mean emission levels. The existing and proposed alignment (horizontal and vertical) are input into the model, along with the receptor locations, traffic volumes of cars, medium trucks (vehicles with two axles and six tires), heavy trucks, average vehicle speeds, pavement type, and any traffic-control devices. The TNM uses its acoustic algorithms to predict noise levels at the selected receptor locations by taking into account sound propagation variables such as, atmospheric absorption, divergence, intervening ground, barriers, building rows, and sometimes heavy vegetation.

Future build TNM runs were developed by modifying the validated existing condition models to account for the proposed highway widening. Roadway design engineering files and

future terrain contour files were supplied by Dewberry. The modeling accounted for the variability in the local terrain and included the following parameters that affect the propagation of traffic noise: terrain lines, ground zones, and fixed height barriers to represent buildings. The default ground type used in the modeling was "lawn." The noise model also included a number of "empty" lanes (e.g., roadways without traffic) to represent paved shoulders and side streets.

To fully characterize future noise levels at all noise-sensitive land uses in the study area, noise prediction receivers (also called "receptors" and/or "sites") were added to the measurement sites in the TNM runs. A link to the TNM models is located in Appendix G.

3.4 TRAFFIC DATA

The Environmental Traffic Data (ENTRADA) Program developed by VDOT standardizes the production of environmental traffic data needed as input for noise analyses. ENTRADA utilizes look-up tables based upon the Highway Capacity Manual (HCM), Special Report 209; NCHRP Reports 365 (187), 387 and 504 (references provided in Section 10.0 of this report); and other nationally and internationally recognized sources to adjust free-flow speeds for different facility types (Freeways, Multi-Lane and Two-Lane Highways, and Urban Streets). It incorporates factors recommended by these documents in order to adjust free-flow speeds based upon number of lanes, access points, lateral clearances, median types, and lane widths.

Traffic volumes in hourly segments for a 24-hour period were provided for Van Buren Road by Wells Associates in ENTRADA format for the 2020 existing conditions and future design year (2040) build conditions.

3.4.1 Worst-Case Noise Hour

The traffic data used in the noise analysis must produce sound levels representative of the loudest ("worst noise") hour of the day in the future design year, per FHWA and VDOT policy. In many cases, experience has shown that the peak traffic hour may coincide with the worst noise hour of the day. However, on occasion, conditions such as capacity, effects of traffic on vehicle speed, higher than normal off-peak truck percentages, or unusual hourly traffic distribution may cause the worst noise hour of the day to be different from the peak traffic hour of the day. Due to peak-hour congestion on major commuter routes, the worst noise hour may occur during the off-peak period on such roadways.

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Noise levels have been predicted for that hour of the day when the vehicle volume, operating speed, and number of trucks (vehicles with three or more axles) combine to produce the worst noise conditions. According to FHWA guidance, the "worst hourly traffic noise impact" occurs at a time when truck volumes and vehicle speeds are the greatest, typically when traffic is free-flowing and at or near level of service (LOS) C conditions.

The ENTRADA data for the Van Buren extension corridor was imported into the Loudest Hour Determination (LHD) Tool developed by VDOT to evaluate the calculated noise levels at test receptors 200 feet from the source. The loudest hour was determined to be 4:00 P.M. The 4:00 P.M. ENTRADA data for Van Buren Road was used in conjunction with the PM Peak hour traffic for the side roads. Appendix B provides the ENTRADA loudest-hour traffic data summary.

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4.0 EXISTING NOISE ENVIRONMENT

4.1 STUDY AREA/COMMON NOISE ENVIRONMENT (CNE) DESCRIPTION

The majority of noise-sensitive land uses in the project study area include single-family residences within an approximate 500-foot corridor adjacent to both the northbound and southbound lanes of the Van Buren Extension. Following VDOT and FHWA policies and procedures, the receptors used in the model to represent exterior activity areas at noise-sensitive land uses were grouped into Common Noise Environments (CNEs).

A CNE is defined as a group of receptors within the same Activity Category that are exposed to similar noise sources and levels; traffic volumes, traffic mix, and speed; and topographic features. There are 6 distinct geographic areas within the project area containing noise-sensitive land uses within 500 feet or first row receptors where the community is outside of 500 feet but still relevant for analysis of the construction limits that can be considered similar in acoustical environment. The CNEs within the project area (**Figure 2**) consist of exterior residential (Category B) land use, trails (Category C), exterior commercial (Category E), interior of public/institutional buildings (Category D), as well as other non-noise-sensitive land uses included in Category F and Category G (undeveloped). The modeled receptors for the analysis were grouped into the following CNEs:

- CNE A is located west of the Van Buren Extension's southern terminus along Copper Mill Drive. CNE A encompasses noise-sensitive land uses in the Copper Mill Estates community. CNE A contains 14 NAC B modeling-only sites (A-001 to A-014) which represent 14 single-family residential homes. Elevated decks were identified for four residential homes and were represented with elevated receptor sites. CNE A also contains one monitoring site (M-01) which was used for model validation only.
- CNE B is located west of the Van Buren Extension along Four Seasons Drive, Chapman Mill Trail, and Secret Grove Court. CNE B encompasses noise-sensitive land uses in the Four Seasons Community. CNE B contains 93 modeling-only sites (B-001 to B-073 and TR-001 to TR-020) which represent 73 NAC B single-family residential homes and 20 NAC C recreational trail sites which were modeled at 100 ft increments along the trail's path. Elevated decks were identified for all residential homes and were represented with elevated receptor sites. CNE B also contains three monitoring sites (M-02 to M-04) which were used for model validation only.

- CNE C is located west of the Van Buren Extension along Soaring Court, Wingspan Court and Labourn Drive. CNE C encompasses noise-sensitive land uses in the Cardinal Grove Community. CNE C contains 82 NAC B modeling-only sites (C-001 to C-082) which represent 82 single-family residential homes. Elevated decks were identified for 30 residential homes and were represented with elevated receptor sites. CNE B also contains one monitoring site (M-06) which was used for model validation only.
- CNE D is located east of the Van Buren Extension along Fledgling Circle and Habitat Court. CNE D encompasses noise-sensitive land uses in the Cardinal Grove Community. CNE D contains 50 NAC B modeling-only sites (D-001 to D-050) which represent 50 single-family residential homes. Elevated decks were identified for 31 residential homes and were represented with elevated receptor sites. CNE D also contains two monitoring sites (M-07 and M-08) which were used for model validation only.
- CNE E is located north of the Van Buren Extension along Choate Court. CNE E encompasses noise-sensitive land uses along Choate Court and the Fannie W Fitzgerald Elementary School which are located west of Benita Fitzgerald Drive and north of Cardinal Drive. CNE E contains nine modeling-only sites (E-001 to E-009) which represent eight NAC B single-family residential homes and one NAC D school site. The School is made of brick construction and is given a 15dBA reduction for the interior sound level prediction. CNE E does not contain any monitoring sites.
- CNE F is located south of the Van Buren Extension on both sides of the connector road from Old Stage Road and the Van Buren Extension road.
 CNE F encompasses noise-sensitive land uses at the Comfort Inn and Hampton Inn Hotels. CNE F contains two NAC E modeling-only sites (F-001 and F-002) which represent two hotel patios. CNE F does not contain any monitoring sites.

4.2 UNDEVELOPED LANDS AND PERMITTED DEVELOPMENTS

Highway traffic noise analyses are (and will be) performed for developed lands as well as undeveloped lands if they are considered "permitted." Undeveloped lands are deemed to be permitted when there is a definite commitment to develop land with an approved specific design of land use activities as evidenced by the issuance of at least one building permit.

In accordance with the *VDOT Traffic Noise Policy*, an undeveloped lot is considered to be planned, designed, and programmed if a building permit has been issued by the local authorities prior to the Date of Public Knowledge for the relevant project. VDOT considers the "Date of Public Knowledge" as the date that the final NEPA approval is made. VDOT has no obligation to provide noise mitigation for any undeveloped land that is permitted or constructed after this date.

Prince William County's Planning Pending Cases Interactive Map indicates there is one proposed development with a pending Special Use Permit, Quantico Centre Popeyes (SUP2021-00025). As of the date of this report, the permit for this commercial land use has not been approved. There are no other proposed developments or residential building permits.

4.3 MONITORING OF EXISTING NOISE LEVELS

A noise monitoring program was conducted within the Van Buren Extension study area consistent with FHWA and VDOT recommended procedures. The objectives of the monitoring program were to document existing ambient noise levels in noise-sensitive locations and to provide a means for validation of the traffic noise prediction model.

Short-term noise measurements of 20-minute duration were obtained at seven locations within the project corridor on February 9, 2021. All monitoring was performed using Metrosonics dB-3080 and Rion NL-52 sound analyzers. Field calibration of the meters was performed immediately prior to noise monitoring using a Metrosonics cl-304 and a Rion NC-74 sound level calibrator. The sound analyzers were post-calibrated after the measurements using a Metrosonics cl-304 and a Rion NC-74 sound level calibrator. All of the Metrosonic equipment was lab-calibrated on June 2, 2020, and the Rion equipment was calibrated on January 22, 2020. This equipment meets all requirements of the American National Standard Specification for Sound Level Meters, ANSI S1.4-1983 (R1990), Type 2. Noise measurements were in the A-weighted scale and reported in decibels (dBA). The data collection procedure involved the Leq measurements in consecutive 30-second intervals. This method allows individual time intervals that include noise events unrelated to traffic noise (such as aircraft over flights) to be excluded from consideration. Hourly average noise levels [Leq(h)] were derived for each location from the 20-minute Leq values. Existing noise measurements were collected under meteorologically acceptable conditions when the pavement was dry and winds were calm or light. Additional data collected at each monitoring location included atmospheric conditions such as wind speed, humidity, and ambient temperature. Monitoring was conducted in accordance with the U.S. Department of Transportation, FHWA "Measurement of Highway-Related Noise," FHWA Report No. FHWA-PD-96-046, May 1996.

Short-term noise monitoring is not a process to determine design year noise impacts or barrier locations. Short-term noise monitoring provides a level of consistency between what is

present in real-world situations and how that is represented in the computer noise model. Short-term monitoring does not need to occur within every CNE to validate the computer noise model.

The measured noise levels appear in **Table 4** as equivalent sound levels (L_{eq}). The L_{eq} is a sound-energy average of the fluctuating sound level (in A-weighted decibels, dBA) measured over a specified period of time. **Table 4** provides the site address as well as the date, start time, and duration of each measurement. The traffic data (vehicle composition and speed) were also recorded during the measurement period. According to VDOT procedure, traffic was grouped into one of three categories: automobiles, medium trucks, and heavy trucks. The traffic data were converted to one-hour traffic data based on the measurement duration for validation of the noise model.

TABLE 4
SHORT-TERM NOISE MONITORING SUMMARY

Site ID	Address	Date	Time Start	Duration (minutes)	Monitored L _{eq} (dBA)
M-01	16815 Mill Station Way	02/09/21	14:06:30	20 Minutes	55.2
M-02	17381 Four Seasons Drive	02/09/21	14:06:30	20 Minutes	51.6
M-03	3736 Chapman Mill Trail	02/09/21	14:06:30	20 Minutes	48.6
M-04	3601 Secret Grove Court	02/09/21	14:06:30	20 Minutes	52.0
M-06	3388 Soaring Circle	02/09/21	12:22:00	20 Minutes	59.8
M-07	3215 Fledgling Circle	02/09/21	12:22:00	20 Minutes	63.3
M-08	15606 Habitat Court	02/09/21	12:22:00	20 Minutes	48.2

The location of each noise monitoring site is indicated with a star symbol on **Figure 2**. Additional noise monitoring data (site sketches, meter printouts, and calibration certificates) are located in Appendix A. The monitored L_{eq} in the study corridor ranged from 48 dBA to 63 dBA. Traffic noise from I-95 was the dominant noise source for monitoring locations M-02 through M-07. Traffic noise from Dumfries Road was the dominant noise source for M-01 and traffic noise from Cardinal Drive was the dominant noise source for site M-08.

4.4 NOISE MODEL VALIDATION

The noise monitoring data are primarily used to validate the computer model used to predict existing and future levels. Upon measurement of the existing noise levels, a three-dimensional noise model of the existing roadway network was constructed which incorporates all

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significant terrain features that define the propagation path between the roadway and noise-sensitive receptors. Traffic volumes, composition, and speeds that were observed during the short-term monitoring periods were used as inputs to generate the validation models sound levels. FHWA and VDOT consider a difference of ±3 dBA or less between the measured noise levels and the computer modeled noise levels is considered acceptable. This computer model validation verifies that the sound propagation paths within the model are accurate and that the modeling techniques are correct and ensures that reported changes between the existing conditions and future design year (2040) conditions are due to changes in traffic or propagation path and not discrepancies between monitoring and modeling techniques.

A summary of the model validation is presented in **Table 5**. Each of the monitored locations was able to be accurately modeled within the acceptable ±3 dBA range. The project-wide average difference between calculated noise levels and monitored noise levels was 1.5 decibels, which generally shows excellent agreement between monitored and modeled sound levels and suggests confidence in the modeling assumptions.

TABLE 5
COMPUTED VS. MEASURED SOUND LEVELS AT MEASUREMENT SITES

Site ID	CNE	Address	Monitored L _{eq} (dBA)	TNM - Computed L _{eq} (dBA)	Difference (dBA)
M-01	Α	16815 Mill Station Way	55.2	57.3	2.1
M-02	В	17381 Four Seasons Drive	51.6	49.1	-2.5
M-03	В	3736 Chapman Mill Trail	48.6	46.0	-2.6
M-04	В	3601 Secret Grove Court	52.0	52.9	0.9
M-06	С	3388 Soaring Circle	59.8	58.9	-0.9
M-07	D	3215 Fledgling Circle	63.3	62.9	-0.4
M-08	D	15606 Habitat Court	48.2	50.1	1.9
		Average Diff	erence		1.5
		Standard Deviation	of Difference		1.6

4.5 PREDICTED EXISTING NOISE LEVELS

For calculation of loudest-hour noise levels throughout the study area, 250 receptor locations were added to the validated TNM run(s) to provide a comprehensive basis of comparison for the analysis of noise impacts from the existing and future project conditions. Using the appropriate loudest-hour traffic data, existing and future traffic noise levels were predicted for

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the 250 receptor locations. The computation methods and predicted noise levels are presented in the next section of this report.

The noise measurements provided valuable information on current noise conditions and the effects of terrain and shielding on sound propagation from the roadway to the nearby residential land uses. However, because existing noise levels are not always measured during the loudest hour of the day, the loudest-hour existing noise levels were computed using the appropriate traffic data as input. The predicted existing noise levels for the loudest hour of the day are then used as the baseline against which predicted future noise levels are compared and potential noise impacts assessed.

Of the 250 total noise receptor sites (grouped into six CNEs), ten receptor sites (within three of the six CNEs) are predicted to approach or exceed the NAC for the existing condition worst-case noise hour. For all studied sites, the predicted existing year noise levels range from 41 dBA to 71 dBA. A discussion of the predicted existing noise levels for each of the CNEs is provided below. **Figure 2** presents the locations of all the CNEs and all of their respective modeled receptor sites. Calculated noise levels for all noise-sensitive sites are presented in **Table 7** and discussed below. Due to the amount of data, this table is located in the Data Tables section.

- Existing loudest hour noise levels within CNE A were predicted to range from 51 to 65 dBA. None of the noise-sensitive sites are predicted to approach or exceed the NAC for the existing condition worst-case noise hour.
- Existing loudest hour noise levels within CNE B were predicted to range from 43 to 56 dBA. None of the noise-sensitive sites are predicted to approach or exceed the NAC for the existing condition worst-case noise hour.
- Existing loudest hour noise levels within CNE C were predicted to range from 45 to 71 dBA. There are seven noise-sensitive sites that are predicted to approach or exceed the NAC for the existing condition worst-case noise hour.
- Existing loudest hour noise levels within CNE D were predicted to range from 45 to 66 dBA. There are two noise-sensitive sites that are predicted to approach or exceed the NAC for the existing condition worst-case noise hour.
- Existing loudest hour noise levels within CNE E were predicted to range from 49 to 68 dBA. An interior noise level was calculated to be 41 dBA at

the Fannie W. Fitzgerald Elementary School. There is one noise-sensitive site that is predicted to approach or exceed the NAC for the existing condition worst-case noise hour.

• Existing loudest hour noise levels within CNE F were predicted to range from 49 to 52 dBA. None of the noise-sensitive sites are predicted to approach or exceed the NAC for the existing condition worst-case noise hour.

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5.0 FUTURE NOISE ENVIRONMENT

This section discusses the noise prediction model and traffic data used as input to the noise prediction model and then presents a summary of the predicted noise levels.

5.1 PRESENTATION OF RESULTS

Table 6 summarizes the range of predicted noise levels by CNE. The table includes a description of each CNE and its land use, the FHWA Activity Category, and the loudest-hour traffic noise levels which are presented in terms of the A-weighted equivalent sound level, or L_{eq}, in dBA. Loudest-hour noise levels were computed for 2020 existing conditions as well as the future design year (2040) build of the Van Buren Road Extension. Loudest-hour noise levels were not predicted for the design year (2040) No-Build condition, as they are not required for this project as it qualifies as an Environmental Assessment, is not related to the interstate system, and a "constructive use" 4(f) determination was not made.

TABLE 6
RANGES OF PREDICTED NOISE LEVELS FOR THE WORST HOUR

ı			Range of Predicted Exterior Noise Levels and Impacts for the Worst Hour					
CNE	Land Has Description	Activity	Exi	sting	2040	Build		
CNE	Land Use – Description	Category		d Level BA)	Sound Level (dBA)			
			Min	Max	Min	Max		
Α	Single Family Residences in the Copper Mill Estates	В	51	65	55	67		
В	Single Family Residences in the Four Seasons Community		44	56	45	59		
	Four Seasons Community Trail	С	43	53	50	65		
С	Single Family Residences in the Cardinal Grove Community north of Van Buren Road	В	45	71	48	74		
D	Single Family Residences in the Cardinal Grove Community south of Van Buren Road	В	45	66	49	69		
E	Single Family Residences along Choate Court	В	49	68	51	70		
	Fannie W Fitzgerald Elementary School (Interior)	D	2	11		12		
F	Hotel Patios at Comfort Inn and Hampton Inn Hotels	E	49	52	55	58		

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Figure 2 provides a location map for the CNEs, noise-sensitive receptors, 66 dBA L_{eq} "contour" for the 2040 Build alternative, and potential noise barrier locations. Each receptor is shown in **Figure 2** with a color-coded dot that indicates the status of each receptor according to its 2040 Build noise level.

Future design year (2040) noise levels are predicted to exceed the NAC within 5 of the 6 CNEs at a total of 28 noise-sensitive receptor sites. For all studied sites, the future design year (2040) exterior noise levels range from 45 dBA to 74 dBA for the build case. The increase in noise is attributable to an increase in overall traffic volumes through the entire roadway network, particularly the I-95 corridor, as well as alterations in the source/receiver noise propagation path resulting from the construction of the Van Buren Road Extension as well as the connector road.

- Future design year (2040) noise levels within CNE A are predicted to range from 55 dBA to 67 dBA for the build case, with noise levels predicted to approach or exceed the NAC at one noise-sensitive receptor location. There is a maximum of 4 dBA increase over existing sound levels within CNE A.
- Future design year (2040) noise levels within CNE B are predicted to range from 45 dBA to 65 dBA for the build case, with noise levels not predicted to approach or exceed the NAC for any noise-sensitive receptor location. Increase over existing noise impacts are predicted for three receptors representing locations along the recreational trail. There is a maximum of 12 dBA increase over existing sound levels within CNE B.
- Future design year (2040) noise levels within CNE C are predicted to range from 48 dBA to 74 dBA for the build case, with noise levels predicted to approach or exceed the NAC at 15 receptor locations for the build case. There is a maximum of 7 dBA increase over existing sound levels within CNE C.
- Future design year (2040) noise levels within CNE D are predicted to range from 49 dBA to 69 dBA for the build case, with noise levels predicted to approach or exceed the NAC at seven receptor locations for the build case. There is a maximum of 7 dBA increase over existing sound levels within CNE D.
- Future design year (2040) noise levels within CNE E are predicted to range from 51 dBA to 70 dBA for the build case, with noise levels predicted to approach or exceed the NAC at two receptor locations for the build case. There is a maximum of 2 dBA increase over existing sound levels within CNE E.

 Future design year (2040) noise levels within CNE F are predicted to range from 55 dBA to 58 dBA for the build case, with noise levels not predicted to approach or exceed the NAC for any noise-sensitive receptor locations for the future traffic conditions. There is a maximum of 6 dBA increase over existing sound levels within CNE F.

Table 7 (refer to Data Tables for receptor sound data tables) outlines all the computed sound levels at all 250 of the modeled receptors included in the noise assessment. There may be discrepancies in the reported data resulting from rounding to whole numbers. Noise values, comparisons, and insertion losses are calculated to the tenth of a dB(A) and then rounded for presentation purposes. The noise-impacted sites have been highlighted in red. All impacts to residential units result from an approach or exceedance of the NAC. The community trail for the Four Seasons Community are the only impacts associated with the "substantial increase" impact threshold which is due to their close proximity to the Van Buren Extension since it will be on new alignment.

Table 8 presents a summary of the predicted noise impact for the 2020 existing condition and the future design year (2040) build alternative. The impacts are summarized for the entire study area, separately by FHWA Activity Category.

TABLE 8
NOISE IMPACT SUMMARY

	Impact	Number	of Impacted Units	by Land Use and	FHWA Activity Ca	ntegory ²
Scenario	Impact Type ¹	Residential Exterior (B)	Recreational Exterior (C)	Institutional Interior (D)	Commercial Exterior (E)	Total
Existing	NAC	10	0	0	0	10
Existing	IOE	0	0	0	0	0
Build	NAC	25	0	0	0	25
Build	IOE	0	3	0	0	3

^{1 &}quot;NAC" = Noise levels approach or exceed the FHWA Noise Abatement Criteria (NAC) for applicable Activity Category. 2 The FHWA Activity Category is shown in parenthesis.

Table 9 presents a summary of the predicted noise impact for the 2020 existing condition and the future design year (2040) build alternative by CNE.

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^{3 &}quot;IOE"= Noise levels exceed the FHWA acceptable Increase Over Existing (IOE) impact threshold

TABLE 9
PREDICTED TRAFFIC NOISE IMPACT BY COMMON NOISE ENVIRONMENT (CNE)

			Range of Predicted Exterior Noise Levels and Impacts for the Worst Hour				
CNE	Land Use - Description Activity Category Number of Impacts Single Family Residences in the Copper Mill Estates Single Family Residences in the Cour Seasons Community Sour Seasons Community Trail Cour Seasons Community Trail Cingle Family Residences in the Cardinal Grove Community north of Van Buren Road Single Family Residences in the Cardinal Grove Community outh of Van Buren Road Single Family Residences along Choate Court Cannie W. Fitzgerald Elementary Category Number of Impacts B 0 C 1 2 1 1 1 1 1 1 1 1 1 1 1	2040 Build					
		Category	of	Number of Impacts			
А	Single Family Residences in the Copper Mill Estates	В	0	1			
В	Single Family Residences in the Four Seasons Community						
	Four Seasons Community Trail	С	0	and Impacts prest Hour 2040 Build Number of Impacts			
С	Single Family Residences in the Cardinal Grove Community north of Van Buren Road	В	7	15			
D	Single Family Residences in the Cardinal Grove Community south of Van Buren Road	В	2	7			
E	Single Family Residences along Choate Court	В	1	2			
<u> </u>	Fannie W Fitzgerald Elementary School (Interior)	D	0	0			
F	Hotel Patios at Comfort Inn and Hampton Inn Hotels	E	0	0			
Total Number O	f Impacted Receptors		10	28			

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6.0 NOISE ABATEMENT DETERMINATION

Noise Abatement Determination is a three-phased approach. The first phase of the process is to determine if highway traffic noise abatement consideration is warranted for the affected communities and/or affected receptors. The warranted criterion specifically pertains to traffic noise impacted receptors, defined in Section 5. Since predicted noise levels for the future design year (2040) build condition approach or exceed the NAC and/or meet the substantial increase criterion, in accordance with VDOT's State Noise Abatement Policy, noise abatement considerations are warranted for these impacted noise-sensitive areas. Satisfying the warranted criterion is considered to be the first phase (Phase 1) of the three-phased noise abatement determination. Phases 2 and 3 (determining feasibility and reasonableness) are discussed below. Following completion of all three phases, a determination can be made related to the feasibility and reasonableness of the noise abatement options.

6.1 ABATEMENT MEASURES EVALUATION

VDOT guidelines recommend a variety of mitigation measures that should be considered in response to transportation-related noise impacts. While noise barriers and/or earth berms are generally the most effective forms of noise mitigation, additional mitigation measures exist which have the potential to provide considerable noise reductions under certain circumstances. Mitigation measures considered for this project include:

- Traffic-Control Measures,
- Alteration of Horizontal and Vertical Alignments,
- Acoustical Insulation of Public-Use and Non-Profit Facilities,
- Acquisition of Buffer Land,
- Construction of Earth Berms, and
- Construction of Noise Barriers.

6.1.1 Traffic-Control Measures (TCM)

Traffic-control measures (such as speed limit restrictions, truck traffic restrictions, and other traffic-control measures that may be considered for the reduction of noise emission levels)

are not practical for this project. Reducing speeds will not be an effective noise mitigation measure since a substantial decrease in speed is necessary to provide adequate noise reduction. Typically, a 10-mile-per-hour (mph) reduction in speed will result in only a 2 dBA decrease in noise level, which would not eliminate all impacts and is not perceptible to the typical human ear. Additionally, a reduction in speed is not practical for a limited access highway and would be counterproductive to the project objective of alleviating traffic and reducing congestion.

6.1.2 Alteration of Horizontal and Vertical Alignments

Consistent with the Environmental Assessment documentation, complete realignment of Van Buren Road either horizontally or vertically is not included in the scope of the project as it would result in significant amounts of right-of-way and easement impacts to the adjacent private properties. Accordingly, the scope of this project is to build a four-lane extension of Van Buren Road between Dumfries Road and Cardinal Drive with the inclusion of a multi-use path.

6.1.3 Acoustical Insulation of Public-Use and Non-Profit Facilities

This noise abatement measure option applies only to public and institutional use buildings. Since no public use or institutional structures are anticipated to have interior noise levels exceeding FHWA's interior NAC, this noise abatement option will not be applied.

6.1.4 Acquisition of Buffering Land

The purchase of property for noise barrier construction or the creation of a "buffer zone" to reduce noise impacts is only considered for predominantly unimproved properties because the amount of property required for this option to be effective would create significant additional impacts (e.g., in terms of residential displacements), which were determined to outweigh the benefits of land acquisition.

6.1.5 Construction of Berms/Noise Barriers

Construction of noise barriers can be an effective way to reduce noise levels at areas of outdoor activity. Noise barriers can be wall structures, earthen berms, or a combination of the

two. The effectiveness of a noise barrier depends on the distance and elevation difference between roadway and receptor and the available placement location for a barrier. Gaps between overlapping noise barriers also decrease the effectiveness of the barrier, as opposed to a single connected barrier. The barrier's ability to attenuate noise decreases as the gap width increases.

Noise barriers and earth berms are often implemented into the highway design in response to the identified noise impacts. The effectiveness of a free-standing (post and panel) noise barrier and an earth berm of equivalent height are relatively consistent; however, an earth berm is perceived as a more aesthetically pleasing option. In contrast, the use of earth berms is not always an option due to the excessive space they require adjacent to the roadway corridor. At a standard slope of 2:1, every one foot in height would require four feet of horizontal width. This requirement becomes more difficult to meet in urban settings where residential properties often abut the proposed roadway corridor. In these situations, implementation of earth berms can require significant property acquisitions to accommodate noise mitigation, and the cost associated with the acquisition of property to construct a berm can significantly increase the total costs to implement this form of noise mitigation and make it unreasonable.

Availability of fill material to construct the berm also needs to be considered. On projects where proposed grading yields excess waste material, earth berms are often cost-effective mitigation options. On balance or borrow projects, the implementation of earth berms is often an expensive solution due to the need to identify, acquire, and transport the material to the project site. Berms were not considered for this project due to right-of-way constraints.

As a general practice, noise barriers are most effective when placed at a relatively high point between the roadway and the impacted noise-sensitive land use. To achieve the greatest benefit from a potential noise barrier, the goal of the barrier should focus on breaking the line of sight (to the greatest degree possible) from the roadway to the receptor. In roadway fill conditions, where the highway is above the natural grade, noise barriers are typically most effective when placed on the edge of the roadway shoulder or on top of the fill slope. In roadway cut conditions, where the roadway is located below the natural grade, barriers are typically most effective when placed at the top of the cut slope. Engineering and safety issues have the potential to alter these typical barrier locations.

The effectiveness of a noise barrier is measured by examining the barrier's capability to reduce future noise levels. Noise reduction is measured by comparing design year pre- and post-

barrier noise levels. This difference between unabated and abated noise levels is known as insertion loss (IL).

Additionally, the Noise Policy Code of Virginia (HB 2577, as amended by HB 2025) states:

"Whenever the Commonwealth Transportation Board or the Department plan for or undertake any highway construction or improvement project and such project includes or may include the requirement for the mitigation of traffic noise impacts, first consideration should be given to the use of noise reducing design and low noise pavement materials and techniques in lieu of construction of noise barriers or sound barriers. Vegetative screening, such as the planting of appropriate conifers, in such a design would be utilized to act as a visual screen if visual screening is required."

This documentation is located in **Appendix C.**

6.2 FEASIBILITY, REASONABLENESS, AND DESIGN GOALS

According to FHWA and VDOT guidelines, potential mitigation measures for warranted receptors must also be assessed for feasibility and reasonableness. Noise mitigation is required to be both "feasible" and "reasonable" to be recommended for construction.

6.2.1 Feasibility Criterion for Noise Barriers

All receptors that meet the warranted criterion must progress to the "feasible" phase. Phase 2 of the noise abatement criteria requires that both of the following acoustical and engineering conditions be considered. The noise abatement measure is said to be feasible if it meets both of the following criteria.

- At least a 5 dBA highway traffic noise reduction at impacted receptors: According to 23 CFR 772, FHWA requires the highway agency to determine the number of impacted receptors required to achieve at least 5 dBA of reduction. VDOT requires that 50% or more of the impacted receptors experience 5 dBA or more of insertion loss to be feasible.
- The determination that it is possible to design and construct the noise abatement measure: The factors related to the design and construction include safety, barrier height, topography, drainage, utilities, environmental impacts and maintenance of the abatement measure, maintenance access

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to adjacent properties, and general access to adjacent properties (i.e., arterial widening projects).

6.2.2 Reasonableness Criterion for Noise Barriers

All receptors that meet the feasibility criterion must progress to the "reasonableness" phase. Phase 3 of the noise abatement criteria requires that all of the following conditions be considered.

- The Viewpoints of the Benefited Receptors: VDOT shall solicit the viewpoints of all benefited receptors (refer to Section 7.1) through certified mailings and obtain enough responses to document a decision as to whether or not there is a desire for the proposed noise abatement measure. Fifty percent (50%) or more of the respondents shall be required to favor the noise abatement measure in determining reasonableness. Community views in and of themselves are not sufficient for a barrier to be found reasonable if one or both of the other two reasonableness criteria are not satisfied.
- Cost-effectiveness: Typically, the limiting factor related to barrier reasonableness is the cost-effectiveness value, where the total surface area of the barrier is divided by the number of benefited receptors receiving at least a 5 dBA reduction in noise level. VDOT's approved cost is based on a maximum square footage of abatement per benefited receptor, a value of 1,600 square feet per benefited receptor (SF/BR).

Where multi-family housing includes balconies at elevations that exceed a 30-foot high barrier or the topography causes receptors to be above the elevation of a 30-foot barrier, these receptors are not assessed for barrier benefits and are not included in the computation of the barrier's reasonableness.

For non-residential properties such as parks and public use facilities, a special calculation is performed in order to quantify the type and duration of activity and compare to the cost effectiveness criterion. The determination is based on cost, severity of impact (both in terms of noise levels and the size of the impacted area and the activity it contains), and amount of noise reduction.

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6.2.3 Noise Reduction Design Goals

The design goal is a reasonableness factor indicating a specific reduction in noise levels that VDOT uses to identify that a noise abatement measure effectively reduces noise. The design goal establishes a criterion, selected by VDOT, which noise abatement must achieve. VDOT's noise reduction design goal is defined as a 7 dBA of insertion loss for at least one impacted receptor, meaning that at least one impacted receptor is predicted to achieve a 7 dBA or greater noise reduction with the proposed barrier in place. The design goal is not the same as acoustic feasibility, which defines the minimum level of effectiveness for a noise abatement measure. Acoustic feasibility indicates that the noise abatement measure can, at a minimum, achieve a discernible reduction in noise levels.

Noise reduction is measured by comparing the future design year (2040) build condition pre-and post-barrier noise levels. This difference between unabated and abated noise levels is known as "insertion loss" (IL). It is important to optimize the noise barrier design to achieve the most effective noise barrier in terms of both noise reduction (insertion losses) and cost. Although at least a 5 dBA reduction is required to meet the feasibility criteria, the following tiered noise barrier abatement goals are used to govern barrier design and optimization.

- Reduction of future highway traffic noise by 7 dBA at one or more of the impacted receptor sites (required criterion)
- Reduction of future highway traffic noise levels to the low-60-decibel range when practical (desirable)
- Reduction of future highway traffic noise levels to existing noise levels when practical (desirable)

6.3 NOISE ABATEMENT RESULTS

Noise barriers were evaluated for the noise impacted receptors within CNE C and CNE D that are predicted to experience noise impacts in the design year 2040 build condition. The barrier locations are presented on **Figure 2** and an overview of the evaluated barrier parameters is presented in **Table 10**. Discussions of the individual barriers acoustical performance and statistics can be found in **Tables 11** and **12**. Warranted, Feasible, and Reasonable Worksheets were completed for all impacted CNEs and are included in **Appendix E**.

TABLE 10
SUMMARY OF NOISE BARRIERS EVALUATED IN THIS STUDY

						NOISE I	BARRIER D	ETAILS			
CNE	BARRIER ID	NUMBER OF IMPACTED RECEPTORS	IMPACTED AND BENEFITED RECEPTORS	NON-IMPACTED AND BENEFITED RECEPTORS	LENGTH (FT)	AVERAGE HEIGHT (FT)	SURFACE AREA (SF)	COST AT \$42/SF	SURFACE AREA/ BENEFITED RECEPTOR (SF/BR) ¹	FEASIBLE?	REASONABLE?
С	Barrier C1	11	3	6	2,221	30	66,632	\$2,798,544	7,404	No	No
D	Barrier D1	7	0	2	1,151	30	34,544	\$1,450,848	17,272	No	No

¹ Where Square Feet/Benefitted Receptor (SF/BR) exceeds VDOT's maximum of 1,600, a noise barrier would not be considered cost-reasonable.

6.3.1 CNE A

Receptor A-001, which represents a single-family residence, is predicted to exceed NAC for the 2040 Build condition. Site A-001 is located on the western side of CNE A and is a third-row receptor away from the new alignment. Upon evaluation of modeling data, it was verified that noise level increases predicted at this receptor are a result of increased traffic volumes on Dumfries Road and are not a result of the proposed Van Buren Road Extension project. To adequately mitigate for noise at the impacted site A-001, a noise barrier would need to be evaluated on Dumfries Road. However, since there is no work proposed on Dumfries Road, a barrier on Dumfries Road was not evaluated as part of this project.

6.3.2 CNE B

Receptors TR-012 through TR-014, which represent three locations along the Four Seasons Community recreational trail within CNE B, are predicted to exceed the substantial noise increase criteria for the 2040 Build condition. Although noise abatement consideration is warranted for these three receptors, construction of a noise barrier was determined to not be feasible, as construction of a noise barrier would prohibit access to the 10' shared-use path to be constructed adjacent to the southbound lanes of the Van Buren Road Extension. The functionality

of the Four Seasons Community recreational trail in this location requires access to the proposed shared-use path, affecting the feasibility of noise abatement.

6.3.3 CNE C

Of the 15 noise impacts predicted within CNE C, 11 impacted receptors in the southern section of CNE C (C-003, C-011 through C-017, C-022, C-025, and C-026) are a result of a combination of traffic noise from I-95 and Van Buren Road. A noise barrier (Barrier C1) was evaluated for these 11 impacted receptors adjacent to the edge of shoulder of the southbound lanes of Van Buren Road, extending from approximately Station 240+00 to Station 217+00. **Table 11** presents the performance of this noise barrier. This noise barrier is 30 feet high, 2,221 feet in length, and has a total surface area of 66,632 SF benefiting 9 receptors, equating to 7,404 SF/BR. This barrier provides a reduction of 5 to 9 dBA and benefits 3 of the 11 impacted receptors. The barrier is **not feasible** since it does not provide at least a 5 dBA reduction to 50% of the impacted receptors (achieves 27%).

To adequately mitigate for noise at these impacted receptors in the southern section of CNE C, noise abatement would need to be evaluated along the southbound lanes of I-95 along with Barrier C1. However, since there are no roadway improvements proposed on I-95, a barrier on I-95 was not evaluated as part of this project

TABLE 11
CNE C - BARRIER C1 OPTIMIZED BARRIER RESULTS

Re- ceptor ID	# of Dwelling /Recrea- tional Units	2040 Loudest Hour Predicted Future Noise Levels Leq(h) in dBA		
		No Barrier	With Barrier (dBA)	Insertion Loss (IL)* (dBA)
Barrier C1				
C-001	1	64	63	0
C-002	1	65	65	0
C-003	1	68	65	3
C-011	1	66	66	1
C-012	1	67	66	1
C-013	1	68	67	1

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	1	73	73	0
C-015	1	74	74	1
C-016	1	74	70	4
C-017	1	69	66	4
C-018	1	65	62	3
C-019	1	65	62	3
C-020	1	59	57	2
C-021	1	63	60	3
C-022	1	66	58	8
C-023	1	62	57	5
C-024	1	65	57	8
C-025	1	66	57	8
C-026	1	66	57	9
C-027	1	65	57	9
C-028	1	61	54	7
C-029	1	63	59	4
C-030	1	61	59	2
C-031	1	59	57	2
C-032	1	61	59	2
C-033	1	63	61	2
C-034	1	63	62	1
C-035	1	62	56	6
C-036	1	60	56	5
C-037	1	56	54	2
C-038	1	52	49	3
C-039	1	51	49	2
C-040	1	51	48	3
C-041	1	51	48	3
C-042	1	50	48	3
C-043	1	55	53	3
C-044	1	59	57	2
C-045	1	58	54	4
C-046	1	57	53	3
C-047	1	55	52	3
C-048	1	53	49	4
C-049	1	52	48	4
C-050	1	54	52	3
C-051	1	54	51	2
C-052	1	54	52	2
C-053	1	48	47	1

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* There may be discrepancies in the reported data resulting from rounding to whole numbers.
 * Noise values, comparisons, and insertion losses are calculated to the tenth of a dB(A) and then rounded for presentation purposes.
 Indicates noise impact (NAC only)
 Indicates at least a 5 dBA benefit

Elevated traffic noise levels at four impacted receptors in the northern section of CNE C (C-055 through C-057, C-066) are a result of increased traffic volumes on Cardinal Drive and are not a result of the proposed Van Buren Road Extension project. To adequately mitigate for noise at these four impacted receptor sites, a noise barrier would need to be evaluated on Cardinal Drive. However, since there are no roadway improvements proposed on Cardinal Drive, a barrier on Cardinal Drive was not evaluated as part of this project.

6.3.4 CNE D

A noise barrier (Barrier D1) was evaluated for the seven impacted receptors within CNE D, adjacent to the edge of shoulder of the northbound lanes of Van Buren Road, extending from approximately Station 229+50 to Station 240+50. **Table 12** presents the performance of this noise barrier. This noise barrier is 30 feet high, 1,151 feet in length, and has a total surface area of 34,544 SF benefiting 2 receptors, equating to 17,272 SF/BR. This barrier does not provide the required 5 dBA reduction for any of the seven impacted receptors. The barrier is **not feasible** since it does not provide at least a 5 dBA reduction to 50% of the impacted receptors (achieves 0%).

To adequately mitigate for noise at the impacted receptor sites of CNE D, a noise barrier would need to be evaluated along the southbound lanes of I-95. However, since there are no roadway improvements proposed on I-95, a barrier on I-95 was not evaluated as part of this project.

TABLE 12
CNE D - BARRIER D1 OPTIMIZED BARRIER RESULTS

Re- ceptor ID	# of Dwelling /Recrea- tional Units	Insortion Loss /II)*								
10		No Barrier	With Barrier (dBA)	Insertion Loss (IL)* (dBA)						
		Barrie	r D1							
D-001	1	64	63	1						
D-002	1	64	62	2						
D-003	1	64	60	4						
D-004	1	64	59	6						
D-005	1	64	59	6						
D-006	1	66	61	4						
D-007	1	67	63	4						
D-008	1	67	66	2						
D-009	1	68	67	1						
D-010	1	68	68	0						
D-011	1	68	68	0						
D-012	1	69	69	0						
D-033	1	55	55	0						
D-034	1	55	54	1						
D-035	1	55	53	1						
D-036	1	55	53	2						
D-037	1	54	51	2						
D-038	1	55	53	3						
D-039	1	57	55	2						
D-043	1	51	49	2						
D-044	1	49	47	2						
D-045	1	53	52	2						
D-046	1	52	50	2						
D-047	1	49	48	1						
D-048	1	50	49	1						
D-049	1	62	62	0						
D-050	1	62	61	0						
*	There may be discrepancies Noise values, comparisons, then rounded for presentat	and insertion le								
66	Indicates noise impact (NAC	* * * * * * * * * * * * * * * * * * * *								
5	Indicates at least a 5 dBA be	enefit								

6.3.5 CNE E

For the two noise impacts predicted to occur for the design year (2040) build condition within CNE E (E-002 and E-009), evaluation of modeling data determined that noise level increases are a result of increased traffic volumes on Cardinal Drive and are not a result of the proposed Van Buren Road Extension project. To adequately mitigate for noise at the impacted receptor site, a noise barrier would need to be evaluated on Cardinal Drive. However, since there are no roadway improvements proposed on Cardinal Drive, a barrier on Cardinal Drive was not evaluated as part of this project.

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7.0 PUBLIC INVOLVEMENT/LOCAL OFFICIALS COORDINATION

FHWA and VDOT policies require that VDOT provide certain information to local officials within whose jurisdiction the highway project is located in order to minimize future traffic noise impacts of Type I projects on currently undeveloped lands. (Type I projects involve highway improvements with noise analysis.) This information must include details on noise-compatible land-use planning and noise impact zones for undeveloped lands within the project corridor. The aforementioned details are provided below. Additional information about VDOT's noise abatement program has also been included in this section.

7.1 PUBLIC INVOLVEMENT EFFORTS

For noise barriers determined to be feasible and reasonable, the affected public will be given an opportunity to decide whether they are in favor of construction of the noise barrier. A final determination as to the construction of barriers will be made after the public involvement process. Before final decisions and approvals can be made to construct a noise barrier, a final design noise analysis will be performed. For barriers that are determined to be feasible and reasonable, input from the owners and residents of those receptor units that will be benefited by the proposed mitigation may vote by completing and returning the citizen survey that they receive in the mail. The initial citizen survey is sent out as certified mail so the disposition of the letters can be tracked. Of the votes tallied, 50% or more must be in favor of a proposed noise barrier in order for that barrier to be considered further. Upon completion of the citizen survey, the VDOT Noise Abatement staff will make recommendations to the Chief Engineer for approval. Approved barriers will be incorporated into the road project plans and a Final NADR will be prepared detailing the results of the survey.

7.2 INFORMATION FOR LOCAL GOVERNMENT OFFICIALS NOISE-COMPATIBLE LAND-USE PLANNING

Sections 12.1 and 12.2 of VDOT's current noise policy outline VDOT's approach to communication with local officials and provides information and resources on highway noise and noise-compatible land-use planning. VDOT's intention is to assist local officials in planning the

uses of undeveloped land adjacent to highways to minimize the potential impacts of highway traffic noise.

"Entering the Quiet Zone" is a brochure that provides general information and examples to elected officials, planners, developers, and the general public about the problem of traffic noise and effective responses to it. A link to this brochure on FHWA's website is provided below: https://www.fhwa.dot.gov/environment/noise/noise compatible planning/federal approach/land use/index.cfm.

A wide variety of administrative strategies may be used to minimize or eliminate potential highway noise impacts, thereby preventing the need or desire for costly noise abatement structures such as noise barriers in future years. There are five broad categories of such strategies:

- Zoning,
- Other legal restrictions (subdivision control, building codes, health codes),
- Municipal ownership or control of the land,
- Financial incentives for compatible development, and
- Educational and advisory services.

"The Audible Landscape: A Manual for Highway and Land Use" is a well-written and comprehensive guide addressing these noise-compatible land-use planning strategies, with significant detailed information. This document is available through FHWA's Website at https://www.fhwa.dot.gov/ENVIRonment/noise/noise compatible planning/federal approach/audible landscape/.

7.3 NOISE IMPACT ZONES IN UNDEVELOPED LAND ALONG THE STUDY CORRIDOR

Also required under the revised 2011 FHWA and VDOT noise policies is information on the noise impact zones adjacent to project roadways in undeveloped lands. To determine these zones, noise levels are computed at various distances from the edge of the project roadways in each of the undeveloped areas of the project study area. Then, the distances from the edge of the roadway to the noise abatement criteria sound levels are determined through interpolation. Distances vary in the project corridor due to changes in traffic volumes, or terrain features. Any

noise-sensitive sites within these zones should be considered noise impacted if no barrier is present to reduce sound levels.

Noise level contours are lines of equal noise exposure that typically parallel roadway alignments and are often times useful to local officials in undeveloped corridors. Highway traffic noise is considered a linear noise source and sound levels can drop considerably over distance. The degree that sound levels decrease can vary based on a number of different factors including objects that shield the roadway noise, terrain features and ground cover type (e.g., pavement, grass or snow). The use of noise level contours has become increasingly popular over the last several years, as they have been implemented in planning programs for undeveloped areas with roadway noise influence. Through conscious planning efforts and noise contour generation, municipal officials can restrict future development inside the noise impact zone (i.e., the area within the 66-dBA noise contour). **Figure 2** shows the approximate 66-dBA noise level contours for the study area when considering the proposed improvements and the Design Year (2040) traffic volumes, speeds and composition. This 66-dBA noise contour can be used to approximate the distance away from Van Buren Road in which the NAC will be exceeded for an Activity Category B receptor (e.g., the most common receptor).

7.4 VDOT'S NOISE ABATEMENT PROGRAM

Information on VDOT's noise abatement program is available on VDOT's Website at https://www.virginiadot.org/projects/pr-noise-walls-about.asp. The site provides information on VDOT's noise program and policies, noise barriers, and a downloadable noise barrier brochure.

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8.0 CONSTRUCTION NOISE

Throughout the construction of Van Buren Extension project, noise-sensitive land uses that are analyzed for traffic noise impacts are also susceptible to construction noise impacts. Typical highway construction/reconstruction equipment such as loaders, dump trucks, graders, bulldozers, etc. is likely to temporarily elevate noise within the project area. Sensitive receptors within 100 to 200 feet of construction activities may experience varying periods and degrees of noise impacts, with potential noise levels between 75 dBA and 85 dBA, depending on the nature of the construction activity, the type of equipment in use, and the relative nearness to the activity.

VDOT is concerned with noise generated during the construction phase of the proposed project. While the degree of construction noise impact will vary, it is directly related to the types and number of equipment used and the proximity to the noise-sensitive land uses within the project area. Land uses that are sensitive to traffic noise, are also potentially considered to be sensitive to construction noise. Any construction noise impacts that do occur as a result of roadway construction measures are anticipated to be temporary in nature and will cease upon completion of the project construction phase. A method of controlling construction noise is to establish the maximum level of noise that construction operations can generate. In view of this, VDOT has developed and FHWA has approved a specification that establishes construction noise limits. This specification can be found in VDOT's 2016 Road and Bridge Specifications, Section 107.16(b.3), "Noise." The contractor will be required to conform to this specification to reduce the impact of construction noise on the surrounding community.

Construction noise can be minimized by implementing specific measures to help mitigate the noise at the source. The contractor shall exercise proper maintenance procedures for all construction equipment regularly and thoroughly. Replacement of failing or ineffective muffling and exhaust systems, periodic lubrication of moving parts, and properly tuned engines are necessary in order to keep construction equipment noise emissions to a minimum.

The following construction noise related items are included in VDOT's 2016 Road and Bridge Specifications:

The Contractor's operations shall be performed so that exterior noise levels
measured during a noise-sensitive activity shall not exceed 80 decibels.
Such noise level measurements shall be taken at a point on the perimeter
of the construction limit that is closest to the adjoining property on which a
noise-sensitive activity is occurring. A noise-sensitive activity is any activity

for which lowered noise levels are essential if the activity is to serve its intended purpose and not present an unreasonable public nuisance. Such activities include, but are not limited to, those associated with residences, hospitals, nursing homes, churches, schools, libraries, parks, and recreational areas.

- The Department may monitor construction-related noise. If construction noise levels exceed 80 decibels during noise-sensitive activities, the Contractor shall take corrective action before proceeding with operations. The Contractor shall be responsible for costs associated with the abatement of construction noise and the delay of operations attributable to noncompliance with these requirements.
- The Department may prohibit or restrict to certain portions of the project any work that produces objectionable noise between 10 P.M. and 6 A.M. If other hours are established by local ordinance, the local ordinance shall govern.
- Equipment shall in no way be altered so as to result in noise levels that are greater than those produced by the original equipment.
- When feasible, the Contractor shall establish haul routes that direct his vehicles away from developed areas and ensure that noise from hauling operations is kept to a minimum.
- These requirements shall not be applicable if the noise produced by sources other than the Contractor's operation at the point of reception is greater than the noise from the Contractor's operation at the same point.

9.0 LIST OF PREPARERS AND REVIEWERS

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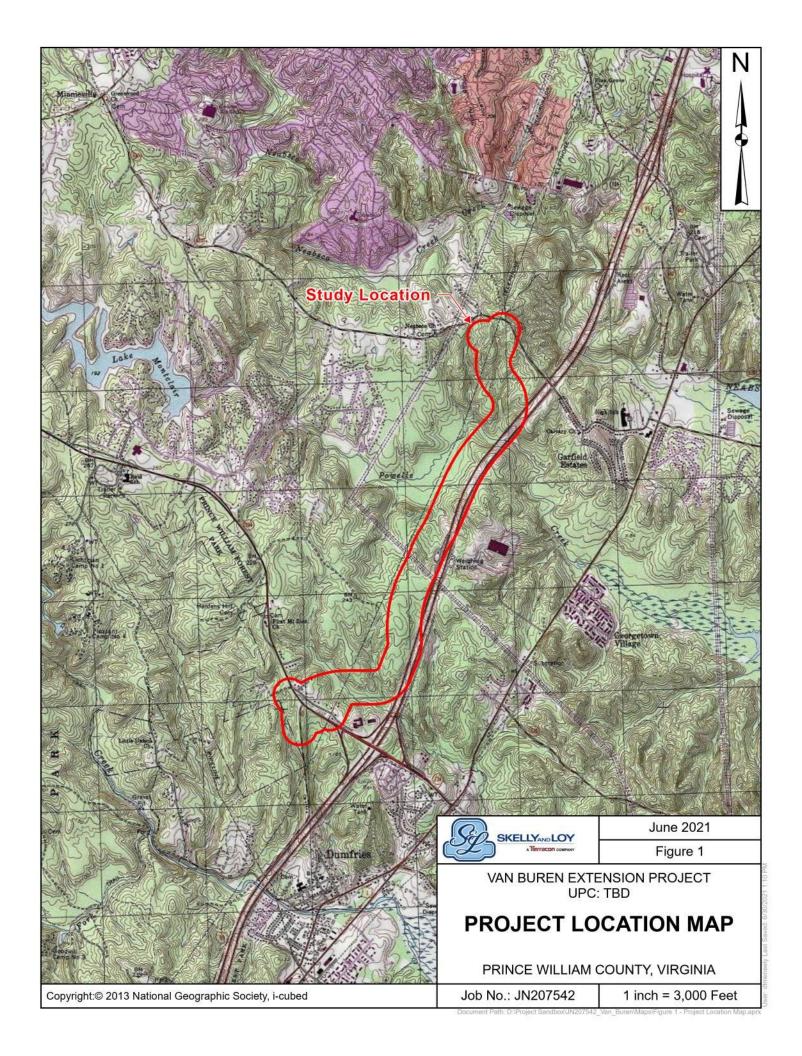
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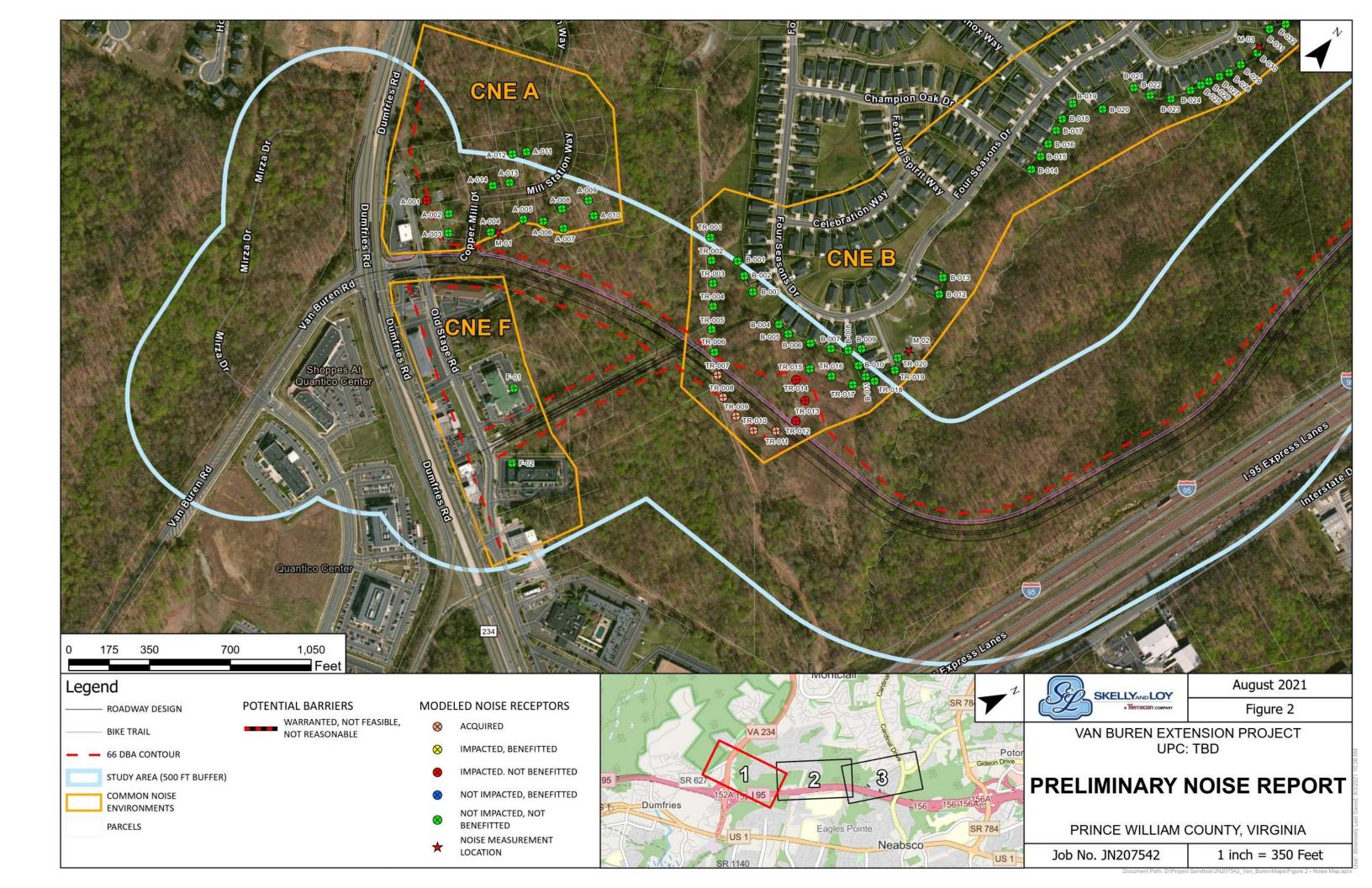
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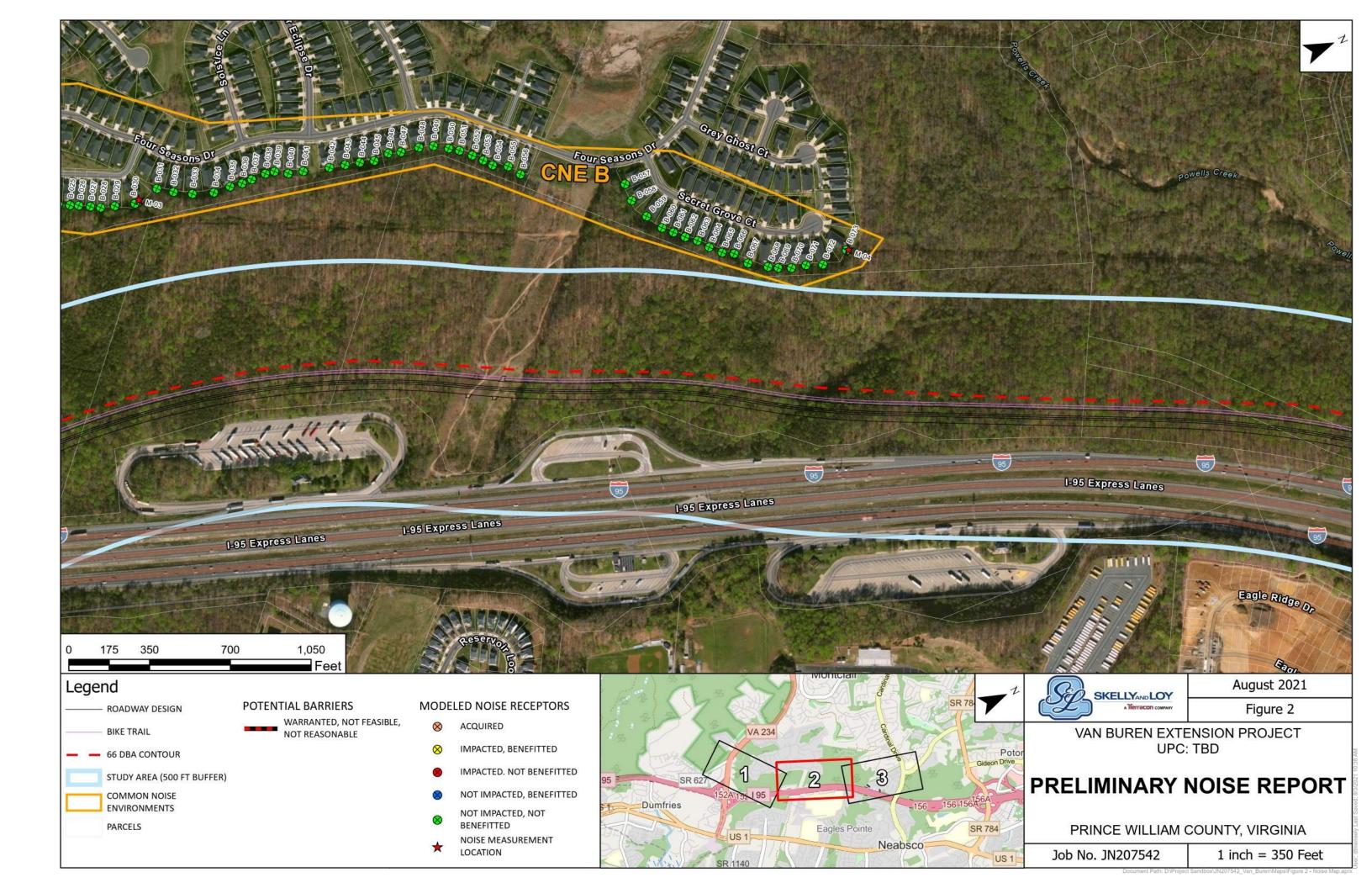
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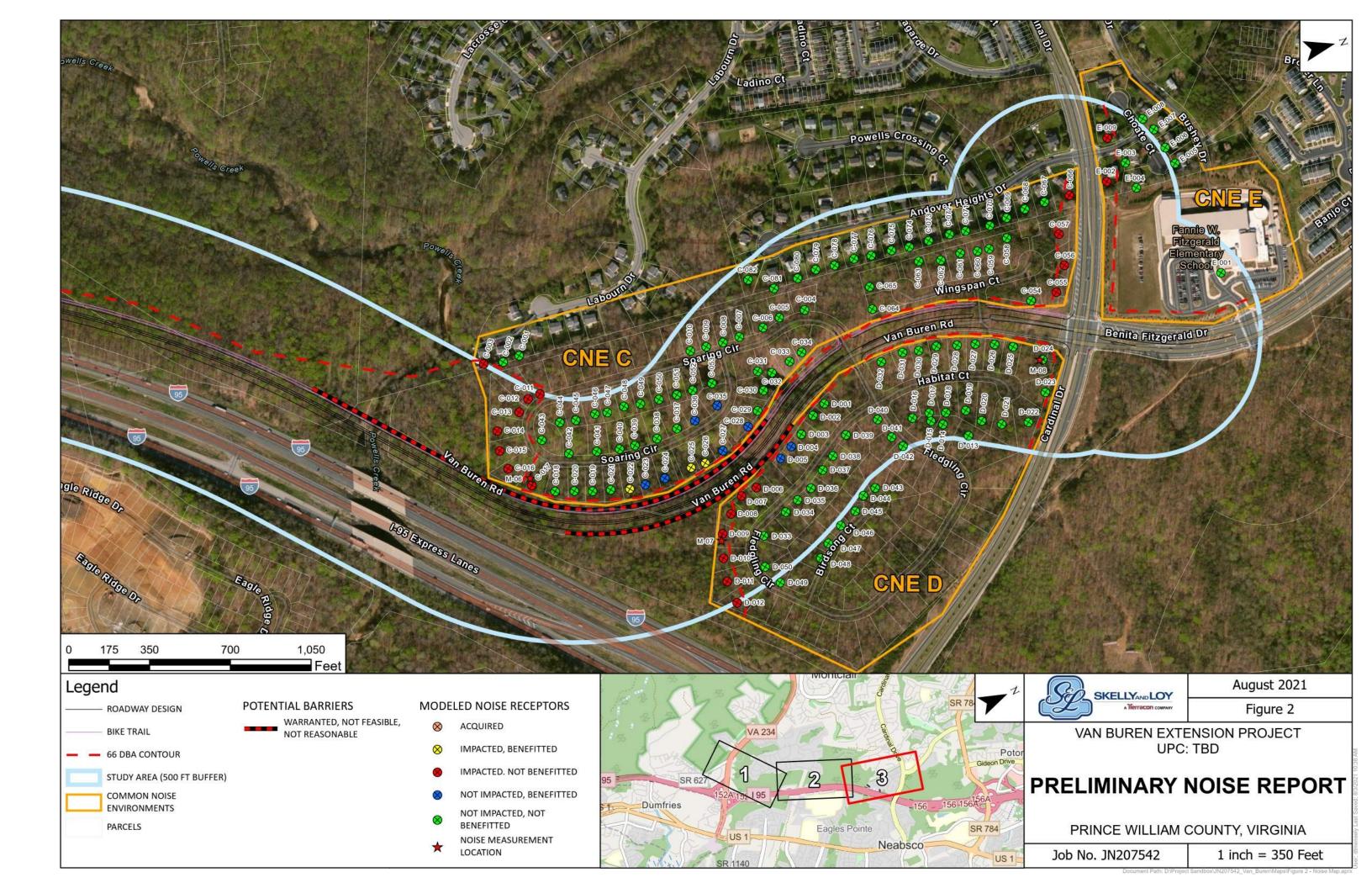
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MAPPING









DATA TABLES

TABLE 7
VAN BUREN EXISTING, NO BUILD, AND FUTURE PREDICTED NOISE LEVELS

		VAN BUREN EXISTING, NO	BUILD, AND FUTUR	E PREDICTED NOISE	E LEVELS			
CNE	Receptor ID	Address	# of Dwelling Units	Activity Category	Land Use	NAC	Levels (Le	hour Noise eq(h) in dBA)
							2020 Existing	2040 Build
	A-001	16915 OLD STAGE RD, DUMFRIES VA	1	В	Residence	66	65	67
	A-002	3929 COPPER MILL DR, DUMFRIES VA	1	В	Residence	66	62	64
	A-003	3925 COPPER MILL DR, DUMFRIES VA	1	B -	Residence	66	62	65
	A-004	16815 MILL STATION WAY, DUMFRIES VA	1	В	Residence	66	58	62
	A-005	16801 MILL STATION WAY, DUMFRIES VA	1	В	Residence	66	58	62
∢	A-006 A-007	16797 MILL STATION WAY, DUMFRIES VA 16789 MILL STATION WAY, DUMFRIES VA	1 1	B B	Residence	66	57 55	61
SNE	A-007 A-008	16793 MILL STATION WAY, DUMFRIES VA	1	В	Residence Residence	66 66	56	60
ਹ	A-008 A-009	16781 MILL STATION WAY, DUMFRIES VA	1	В	Residence	66	52	55
	A-010	16785 MILL STATION WAY, DUMFRIES VA	1	В	Residence	66	51	56
	A-011	16802 MILL STATION WAY, DUMFRIES VA	1	В	Residence	66	55	58
	A-012	16806 MILL STATION WAY, DUMFRIES VA	1	В	Residence	66	57	59
	A-013	16810 MILL STATION WAY, DUMFRIES VA	1	В	Residence	66	57	59
	A-014	3932 COPPER MILL DR, DUMFRIES VA	1	В	Residence	66	58	60
	B-001	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	48	54
	B-002	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	49	56
	B-003	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	50	57
	B-004	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	51	58
	B-005	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	51	58
	B-006	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	52	59
	B-007	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	52	59
	B-008	17393 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	52	59
	B-009	17361 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	51	57
	B-010	17385 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	52	59
	B-011 B-012	17381 FOUR SEASONS DR, DUMFRIES VA 17361 FOUR SEASONS DR, DUMFRIES VA	1 1	B B	Residence Residence	66 66	53 52	59 52
	B-012	17365 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	50	51
	B-013	17309 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	49	50
	B-015	17309 FOUR SEASONS DR, DUMFRIES VA	1 1	В	Residence	66	49	49
	B-016	17309 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	48	49
	B-017	17309 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	48	49
	B-018	17315 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	48	49
	B-019	17313 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	48	49
	B-020	17309 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	49	50
	B-021	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	49	50
	B-022	3704 CHAPMAN MILL TRL, DUMFRIES VA	1	В	Residence	66	50	51
	B-023	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	50	51
	B-024	3712 CHAPMAN MILL TRL, DUMFRIES VA	1	В	Residence	66	50	51
	B-025	3716 CHAPMAN MILL TRL, DUMFRIES VA	1	В	Residence	66	49	51
	B-026 B-027	3720 CHAPMAN MILL TRL, DUMFRIES VA 17213 FOUR SEASONS DR, DUMFRIES VA	1 1	B B	Residence Residence	66 66	49 49	51 51
	B-027	17213 FOUR SEASONS DR, DUMFRIES VA	1 1	В	Residence	66	49	50
	B-029	3732 CHAPMAN MILL TRL, DUMFRIES VA	1	В	Residence	66	48	50
	B-030	3736 CHAPMAN MILL TRL, DUMFRIES VA	1 1	В	Residence	66	48	50
	B-031	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	48	50
	B-032	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	47	50
	B-033	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	46	49
	B-034	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	46	48
	B-035	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	47	49
ın.	B-036	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	45	47
SR	B-037	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	45	46
١	B-038	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	45	46
	B-039	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	45	46
	B-040	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	44	45
	B-041	17213 FOUR SEASONS DR, DUMFRIES VA	1 1	B B	Residence	66	44	45
	B-042 B-043	17213 FOUR SEASONS DR, DUMFRIES VA 17213 FOUR SEASONS DR, DUMFRIES VA	1 1	В	Residence Residence	66 66	45 45	46 46
	B-043	17213 FOUR SEASONS DR, DUMFRIES VA	1 1	В	Residence	66	45	46
	B-045	17213 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	45	46
	B-046	17195 FOUR SEASONS DR, DUMFRIES VA	1 1	В	Residence	66	45	46
	B-047	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	45	47
	B-048	17185 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	46	47
	B-049	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	46	47
	B-050	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	46	47
	B-051	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	46	48
	B-052	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	47	48
	B-053	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	48	49
	B-054	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	47	49
I	B-055	17135 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	49	50

	B-056	17127 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	51	52
	B-057	3667 SECRET GROVE CT, DUMFRIES VA	1	В	Residence	66	50	52
l		<u> </u>						
	B-058	3663 SECRET GROVE CT, DUMFRIES VA	1	В	Residence	66	51	53
	B-059	3659 SECRET GROVE CT. DUMFRIES VA	1	В	Residence	66	52	53
	-							
l	B-060	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	52	55
l	B-061	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	52	55
			_					
	B-062	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	53	56
	B-063	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	53	56
		·						
	B-064	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	53	57
	B-065	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	54	57
		· · · · · · · · · · · · · · · · · · ·			Residerice	00		
	B-066	3631 SECRET GROVE CT, DUMFRIES VA	1 1	В	Residence	66	53	57
	D 007	47044 FOUR CEACONG DR. DUMERIEC VA	1	В	Desidence		F.4	F-7
	B-067	17041 FOUR SEASONS DR, DUMFRIES VA	1	D	Residence	66	54	57
	B-068	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	54	57
	-	·	1 4	В				
	B-069	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	54	57
	B-070	17041 FOUR SEASONS DR. DUMFRIES VA	1	В	Residence	66	54	58
	B-071	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	55	58
	B-072	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	55	58
l	B-073	17041 FOUR SEASONS DR, DUMFRIES VA	1	В	Residence	66	56	59
	C-001	3312 LABOURN DR, WOODBRIDGE VA	1	В	Residence	66	59	64
	-	· · · · · · · · · · · · · · · · · · ·						
I	C-002	3308 LABOURN DR, WOODBRIDGE VA	1	В	Residence	66	60	65
I	C-003	3304 LABOURN DR, WOODBRIDGE VA	1	В	Residence	66	62	68
I		· · · · · · · · · · · · · · · · · · ·						
I	C-004	3304 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	48	53
I	C-005	3308 SOARING CIR. WOODBRIDGE VA	_	В			47	50
I			1		Residence	66		
I	C-006	3312 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	56	61
I		•						
I	C-007	3316 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	58	62
I	C-008	3320 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	59	62
I	-	· · · · · · · · · · · · · · · · · · ·						
I	C-009	3324 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	59	63
I	C-010	3328 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	57	61
I		·	-					
I	C-011	3364 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	62	66
I	C-012	3368 SOARING CIR, WOODBRIDGE VA	1	В		66	63	67
I		· · · · · · · · · · · · · · · · · · ·			Residence			
	C-013	3372 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	64	68
			_					
	C-014	3376 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	69	73
I	C-015	3380 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	71	74
	C-016	3384 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	71	74
	C-017	3388 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	66	69
		· · · · · · · · · · · · · · · · · · ·						
	C-018	3392 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	61	65
	C-019	3396 SOARING CIR, WOODBRIDGE VA	1	В	Desidence	66	61	65
	C-019	3390 SUARING CIR, WUUDDRIDGE VA	<u> </u>	D	Residence	00	01	00
	C-020	3400 SOARING CIR, WOODBRIDGE VA	1 1	В	Residence	66	56	59
	-	·						
	C-021	3404 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	60	63
	C-022	3408 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	63	66
		·						
	C-023	3412 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	60	62
	C-024	3416 SOARING CIR, WOODBRIDGE VA						
			1 1	R	Residence	66	62	65
			1	В	Residence	66	62	65
I	C-025	3420 SOARING CIR, WOODBRIDGE VA	1 1	B B	Residence Residence	66 66	62 62	65 66
		3420 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	62	66
	C-026	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA	1 1	B B	Residence Residence	66 66	62 61	66 66
		3420 SOARING CIR, WOODBRIDGE VA	1	В	Residence	66	62	66
	C-026 C-027	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA	1 1 1	B B B	Residence Residence Residence	66 66 66	62 61 60	66 66 65
	C-026 C-027 C-028	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA	1 1 1 1	B B B	Residence Residence	66 66	62 61	66 66 65 61
	C-026 C-027	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA	1 1 1 1	B B B	Residence Residence Residence Residence	66 66 66	62 61 60 56	66 66 65 61
	C-026 C-027 C-028 C-029	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA	1 1 1 1	B B B B	Residence Residence Residence Residence Residence	66 66 66 66	62 61 60 56 56	66 66 65 61 63
	C-026 C-027 C-028 C-029 C-030	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1	B B B B B	Residence Residence Residence Residence	66 66 66 66 66	62 61 60 56 56 56	66 66 65 61 63 61
	C-026 C-027 C-028 C-029	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA	1 1 1 1	B B B B	Residence Residence Residence Residence Residence	66 66 66 66	62 61 60 56 56	66 66 65 61 63
	C-026 C-027 C-028 C-029 C-030 C-031	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1	B B B B B B	Residence Residence Residence Residence Residence Residence Residence Residence	66 66 66 66 66 66	62 61 60 56 56 54 53	66 66 65 61 63 61 59
	C-026 C-027 C-028 C-029 C-030	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1	B B B B B	Residence Residence Residence Residence Residence Residence Residence	66 66 66 66 66	62 61 60 56 56 56	66 66 65 61 63 61
	C-026 C-027 C-028 C-029 C-030 C-031 C-032	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3415 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1	B B B B B B B	Residence Residence Residence Residence Residence Residence Residence Residence Residence	66 66 66 66 66 66 66	62 61 60 56 56 54 53 54	66 66 65 61 63 61 59
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56	66 66 65 61 63 61 59 61 63
	C-026 C-027 C-028 C-029 C-030 C-031 C-032	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3415 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1	B B B B B B B	Residence Residence Residence Residence Residence Residence Residence Residence Residence	66 66 66 66 66 66 66	62 61 60 56 56 54 53 54	66 66 65 61 63 61 59
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56	66 66 65 61 63 61 59 61 63 63
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 56 58	66 66 65 61 63 61 59 61 63 63 63
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56	66 66 65 61 63 61 59 61 63 63
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 56 58	66 66 65 61 63 61 59 61 63 63 62 60
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-037	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3337 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 56 58 57	66 66 65 61 63 61 59 61 63 63 62 60
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 56 58	66 66 65 61 63 61 59 61 63 63 62 60
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-037 C-038	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49	66 66 65 61 63 61 59 61 63 63 62 60 56
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-033 C-035 C-036 C-037 C-038 C-039	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3441 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3423 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49	66 66 65 61 63 61 59 61 63 63 62 60 56 52
	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-037 C-038	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49	66 66 65 61 63 61 59 61 63 63 62 60 56
O	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-036 C-037 C-038 C-039 C-040	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3415 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3411 SOARING CIR, WOODBRIDGE VA 3411 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49	66 66 65 61 63 61 59 61 63 63 62 60 56 52 51
EC	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-037 C-038 C-039 C-040 C-041	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49 48	66 66 65 61 63 61 59 61 63 63 62 60 56 52 51
:NE C	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-036 C-037 C-038 C-039 C-040	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3311 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49	66 66 65 61 63 61 59 61 63 63 62 60 56 52 51
CNEC	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-037 C-038 C-038 C-039 C-040 C-041 C-042	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3307 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3407 SOARING CIR, WOODBRIDGE VA 3407 SOARING CIR, WOODBRIDGE VA 3401 SOARING CIR, WOODBRIDGE VA 3401 SOARING CIR, WOODBRIDGE VA 3401 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49 48 48	66 66 65 61 63 61 59 61 63 63 62 60 56 55 51 51
CNEC	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-037 C-038 C-039 C-040 C-041 C-042 C-043	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3415 SOARING CIR, WOODBRIDGE VA 3417 SOARING CIR, WOODBRIDGE VA 3407 SOARING CIR, WOODBRIDGE VA 3401 SOARING CIR, WOODBRIDGE VA 3397 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49 48	66 66 65 61 63 61 63 63 63 62 60 56 52 51 51 50 55
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CNEC	C-026 C-027 C-028 C-029 C-030 C-031 C-032 C-033 C-034 C-035 C-036 C-037 C-038 C-039 C-040 C-041 C-042 C-043 C-044	3420 SOARING CIR, WOODBRIDGE VA 3424 SOARING CIR, WOODBRIDGE VA 3428 SOARING CIR, WOODBRIDGE VA 3432 SOARING CIR, WOODBRIDGE VA 3436 SOARING CIR, WOODBRIDGE VA 3440 SOARING CIR, WOODBRIDGE VA 3444 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3315 SOARING CIR, WOODBRIDGE VA 3317 SOARING CIR, WOODBRIDGE VA 3433 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3427 SOARING CIR, WOODBRIDGE VA 3421 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3413 SOARING CIR, WOODBRIDGE VA 3415 SOARING CIR, WOODBRIDGE VA 3416 SOARING CIR, WOODBRIDGE VA 3407 SOARING CIR, WOODBRIDGE VA 3407 SOARING CIR, WOODBRIDGE VA 3401 SOARING CIR, WOODBRIDGE VA 3397 SOARING CIR, WOODBRIDGE VA 3397 SOARING CIR, WOODBRIDGE VA 3379 SOARING CIR, WOODBRIDGE VA 3365 SOARING CIR, WOODBRIDGE VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B B B B B B B B B B B B B B B B B B	Residence	66 66 66 66 66 66 66 66 66 66 66 66 66	62 61 60 56 56 54 53 54 56 56 58 57 53 49 48 48 48 47 53 56	66 66 65 61 63 61 59 61 63 63 62 60 56 52 51 51 51 50 55
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	C-059	15612 WINGSPAN CT, WOODBRIDGE VA	1	В	Residence	66	54	57
	C-060	15616 WINGSPAN CT, WOODBRIDGE VA	1	В	Residence	66	52	56
	C-061	15620 WINGSPAN CT, WOODBRIDGE VA	1	В	Residence	66	48	53
	C-062	15624 WINGSPAN CT, WOODBRIDGE VA	1	В	Residence	66	52	55
	C-063	15628 WINGSPAN CT, WOODBRIDGE VA	1	В	Residence	66	52	56
	C-064	15636 WINGSPAN CT, WOODBRIDGE VA	1	В	Residence	66	55	61
	C-065	15632 WINGSPAN CT, WOODBRIDGE VA	1	В	Residence	66	55	60
	C-066	15551 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	66	68
	C-067	15561 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	60	62
	C-068	15571 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	57	59
	C-069	15581 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	54	57
	C-070	15591 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	52	55
	C-071	15601 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	50	54
	C-072	15611 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	50	54
	C-073	15621 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	49	54
	C-074	15631 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	50	55
	C-075	15641 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	52	56
	C-076	15651 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	52	56
	C-077	15661 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	52	56
	C-078	15671 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	51	56
1	C-079	15681 ANDOVER HEIGHTS DR, WOODBRIDGE VA	 1	В	Residence	66	52	57
1	C-080	15691 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	53	58
1	C-080 C-081	15701 ANDOVER HEIGHTS DR, WOODBRIDGE VA	1	В	Residence	66	51	56
1	C-081	15711 ANDOVER HEIGHTS DR, WOODBRIDGE VA	<u>'</u> 1	В	Residence	66	50	54
	D-001	3253 FLEDGLING CIR, WOODBRIDGE VA	<u> </u>	В	Residence	66	57	64
1	D-001 D-002	3249 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence			64
1	D-002 D-003	3249 FLEDGLING CIR, WOODBRIDGE VA 3245 FLEDGLING CIR, WOODBRIDGE VA	1	В		66 66	57 58	64
1					Residence			
1	D-004	3241 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	59	64
1	D-005	3237 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	59	64
1	D-006	3231 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	61	66
1	D-007	3227 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	62	67
	D-008	3223 FLEDGLING CIR, WOODBRIDGE VA	11	В	Residence	66	64	67
	D-009	3219 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	65	68
	D-010	3215 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	66	68
	D-011	3211 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	65	68
	D-012	3207 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	66	69
	D-013	3127 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	58	60
	D-014	3123 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	53	56
	D-015	3117 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	54	58
	D-016	15639 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	49	54
	D-017	15629 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	54	57
	D-018	15625 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	55	58
	D-019	15617 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	56	59
	D-020	15611 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	59	61
	D-021	15605 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	50	52
	D-022	15601 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	55	57
	D-023	15602 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	56	58
	D-024	15606 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	59	61
	D-025	15610 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	54	59
CNE	D-026	15614 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	53	57
ΙĞ	D-027	15618 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	52	56
1	D-028	15622 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	52	56
l	D-029	15626 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	52	56
1	D-030	15630 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	52	57
l	D-031	15634 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	53	58
	D-032	15638 HABITAT CT, WOODBRIDGE VA	1	В	Residence	66	55	61
1	D-033	3226 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	50	55
l	D-034	3230 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	51	55
1	D-035	3234 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	51	55
l	D-036	3238 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	52	55
1	D-037	3242 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	51	54
l	D-038	3246 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	52	55
	D-039	3250 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	54	57
	D-039	3108 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	55	59
	D-040	3112 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	52	55
ı	D-041	3116 FLEDGLING CIR, WOODBRIDGE VA	1	В	Residence	66	51	54
l	. U-U-Z	15700 BIRDSONG CT, WOODBRIDGE VA	1	В	Residence	66	48	51
	-			В	Residence	66	45	49
	D-043	· · · · · · · · · · · · · · · · · · ·	1		I NOSIUCIIUC			. +3
	D-043 D-044	15704 BIRDSONG CT, WOODBRIDGE VA	1		Decidores			
	D-043 D-044 D-045	15704 BIRDSONG CT, WOODBRIDGE VA 15710 BIRDSONG CT, WOODBRIDGE VA	1	В	Residence	66	50	53
	D-043 D-044 D-045 D-046	15704 BIRDSONG CT, WOODBRIDGE VA 15710 BIRDSONG CT, WOODBRIDGE VA 15714 BIRDSONG CT, WOODBRIDGE VA	1 1	B B	Residence	66 66	50 48	53 52
	D-043 D-044 D-045 D-046 D-047	15704 BIRDSONG CT, WOODBRIDGE VA 15710 BIRDSONG CT, WOODBRIDGE VA 15714 BIRDSONG CT, WOODBRIDGE VA 15718 BIRDSONG CT, WOODBRIDGE VA	1 1 1	B B B	Residence Residence	66 66 66	50 48 46	53 52 49
	D-043 D-044 D-045 D-046 D-047 D-048	15704 BIRDSONG CT, WOODBRIDGE VA 15710 BIRDSONG CT, WOODBRIDGE VA 15714 BIRDSONG CT, WOODBRIDGE VA 15718 BIRDSONG CT, WOODBRIDGE VA 15722 BIRDSONG CT, WOODBRIDGE VA	1 1 1	B B B	Residence Residence Residence	66 66 66	50 48 46 46	53 52 49 50
	D-043 D-044 D-045 D-046 D-047 D-048 D-049	15704 BIRDSONG CT, WOODBRIDGE VA 15710 BIRDSONG CT, WOODBRIDGE VA 15714 BIRDSONG CT, WOODBRIDGE VA 15718 BIRDSONG CT, WOODBRIDGE VA 15722 BIRDSONG CT, WOODBRIDGE VA 3204 FLEDGLING CIR, WOODBRIDGE VA	1 1 1 1	B B B B	Residence Residence Residence Residence	66 66 66 66 66	50 48 46 46 60	53 52 49 50 62
	D-043 D-044 D-045 D-046 D-047 D-048 D-049 D-050	15704 BIRDSONG CT, WOODBRIDGE VA 15710 BIRDSONG CT, WOODBRIDGE VA 15714 BIRDSONG CT, WOODBRIDGE VA 15718 BIRDSONG CT, WOODBRIDGE VA 15722 BIRDSONG CT, WOODBRIDGE VA 3204 FLEDGLING CIR, WOODBRIDGE VA 3214 FLEDGLING CIR, WOODBRIDGE VA	1 1 1 1 1	B B B B B	Residence Residence Residence Residence Residence	66 66 66 66 66	50 48 46 46 60 59	53 52 49 50 62 62
	D-043 D-044 D-045 D-046 D-047 D-048 D-049	15704 BIRDSONG CT, WOODBRIDGE VA 15710 BIRDSONG CT, WOODBRIDGE VA 15714 BIRDSONG CT, WOODBRIDGE VA 15718 BIRDSONG CT, WOODBRIDGE VA 15722 BIRDSONG CT, WOODBRIDGE VA 3204 FLEDGLING CIR, WOODBRIDGE VA	1 1 1 1	B B B B	Residence Residence Residence Residence	66 66 66 66 66	50 48 46 46 60	53 52 49 50 62

	E-003	3411 CHOATE CT, WOODBRIDGE VA	1	В	Residence	66	58	59
ш	E-004	3401 CHOATE CT, WOODBRIDGE VA	1	В	Residence	66	55	57
S	E-005	3400 CHOATE CT, WOODBRIDGE VA	1	В	Residence	66	49	51
5	E-006	3410 CHOATE CT, WOODBRIDGE VA	1	В	Residence	66	51	53
	E-007	3420 CHOATE CT, WOODBRIDGE VA	1	В	Residence	66	52	53
	E-008	3430 CHOATE CT, WOODBRIDGE VA	1	В	Residence	66	53	54
	E-009	3451 CHOATE CT, WOODBRIDGE VA	1	В	Residence	66	65	66
CNE	F-01	16931 OLD STAGE RD, DUMFRIES VA	1	С	Hotel Patio	66	49	55
5 "	F-02	16959 OLD STAGE RD, DUMFRIES VA	1	С	Hotel Patio	66	52	58
	TR-001	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	46	50
	TR-002	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	46	50
	TR-003	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	46	51
	TR-004	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	46	52
	TR-005	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	45	53
	TR-006	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	45	54
	TR-007	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	44	Acquired
	TR-008	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	44	Acquired
Ι.	TR-009	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	43	Acquired
TRAIL	TR-010	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	50	Acquired
≝	TR-011	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	52	Acquired
	TR-012	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	53	65
	TR-013	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	49	59
	TR-014	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	47	57
	TR-015	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	48	57
	TR-016	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	49	57
	TR-017	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	49	57
	TR-018	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	51	57
	TR-019	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	51	55
	TR-020	17361 FOUR SEASONS DR, DUMFRIES VA	1	С	Trail	66	51	54

NOTE: There may be discrepancies in the reported data resulting from rounding to whole numbers. Noise values, comparisons, and insertion losses are calculated to the tenth of a dB(A) and then rounded for presentation purposes.

APPENDICES

APPENDIX A - NOISE MEASUREMENT DATA

Description: 16815 Mill Station Way Site # M-01 Atmospheric Done By: AJD Data Wind Speed S&L 2 (SN 5093) Meter: (mph) Monitoring Data: Date 8.00 2/9/21 Temp. (°F) **Start Time** 14:06:30 **End Time** 14:26:30 50° Duration 20 minutes Humidity (%) Leq (dBA) 55.2 50% Traffic Data: 20 Minute Roadway Dumfries Van Buren WB EB NB Direction SB SB Traffic Total: 1184 1564 197 53 472 514

Site Data: Site Surface: Grass Grade: Pavement Type: Average

192 44

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430 470

20 16

22 28

1434

30

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1020

42

122



Meter Location

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Standard Sape

Monitoring Notes

Notes: Construction noise throughout neighborhood including dumptruck activity and house framing (nail guns). Majority of construction noise shielded due to location of noise meter in back yard of 16815 Mill Station Way.

Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)
1	2:06:30 PM	50.5	21	2:16:30 PM	54.3	41			61		
2	2:07:00 PM	58.1	22	2:17:00 PM	55.0	42			62		
3	2:07:30 PM	58.0	23	2:17:30 PM	52.5	43			63		
4	2:08:00 PM	55.8	24	2:18:00 PM	55.1	44			64		
5	2:08:30 PM	51.9	25	2:18:30 PM	57.3	45			65		
6	2:09:00 PM	53.3	26	2:19:00 PM	53.6	46			66		
7	2:09:30 PM	56.7	27	2:19:30 PM	50.8	47			67		
8	2:10:00 PM	57.2	28	2:20:00 PM	50.9	48			68		
9	2:10:30 PM	54.0	29	2:20:30 PM	55.1	49			69		
10	2:11:00 PM	51.0	30	2:21:00 PM	55.6	50			70		
11	2:11:30 PM	53.1	31	2:21:30 PM	54.8	51			71		
12	2:12:00 PM	54.2	32	2:22:00 PM	54.3	52			72		
13	2:12:30 PM	54.1	33	2:22:30 PM	58.3	53			73		
14	2:13:00 PM	51.0	34	2:23:00 PM	56.4	54			74		
15	2:13:30 PM	54.3	35	2:23:30 PM	55.3	55			75		
16	2:14:00 PM	56.4	36	2:24:00 PM	51.3	56			76		
17	2:14:30 PM	56.2	37	2:24:30 PM	55.8	57			77		
18	2:15:00 PM	54.5	38	2:25:00 PM	59.4	58			78		
19	2:15:30 PM	53.9	39	2:25:30 PM	56.3	59			79		
20	2:16:00 PM	56.7	40	2:26:00 PM	54.5	60			80		

Skelly and Loy inc.

Cars

MT

Description: 17381 Four Seasons Drive Site # M-02 Atmospheric Done By: AJD, EJA Data Wind Speed Rion 1 (464709) Meter: (mph) Monitoring Data: Date 8.00 2/9/21 Temp. (°F) 14:06:30 Start Time **End Time** 14:26:30 50° Duration 20 min Humidity (%) Leq (dBA) 47.7 50% Traffic Data: 20 Minute Roadway Van Buren Dumfries SB WB EB NB Direction NB SB Traffic Total: 1184 1564 197 53 472 514 Cars 1020 1434 192 44 430 470 MT 42 30 3 20 16 HT 122 100 22 28

Site Data: Site Surface: Grass Grade: Pavement Type: Average



Monitoring Notes

Notes: Noise meter secured to fencepost of drainage field fence. Hawk in nearby tree was producing loud alarm calls while meter was being placed.

Meter Location

l												
I	lum	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)
	1	2:03:48 PM	46.8	21			41			61		
ΙГ	2	2:08:48 PM	46.7	22			42			62		
	3	2:13:48 PM	48.5	23			43			63		
П	4	2:18:48 PM	48.5	24			44			64		
	5	2:23:48 PM	48.3	25			45			65		
	6			26			46			66		
	7			27			47			67		
	8			28			48			68		
	9			29			49			69		
	10			30			50			70		
ΙГ	11			31			51			71		
ΙГ	12			32			52			72		
	13			33			53			73		
Ш	14			34			54			74		
	15			35			55			75		
	16			36			56			76		
· [17			37			57			77		
	18			38			58			78		
	19			39			59			79		
Г	20			40			60			80		

Skelly and Loy inc.

Description: 3736 Chapman Mill Trail Site # M-03 Done By: AJD Rion 3 (1198633) Meter: Monitoring Data: Date 2/9/21 **Start Time** 14:06:30 **End Time** 14:26:30 Duration 20 minutes Leq (dBA) 48.6 Traffic Data: 20 Minute Roadway

Direction

Cars

MT

HT

Traffic Total:

I-95 Van Buren Dumfries SB SB WB EB NB NB 1184 1564 197 53 472 514 1020 1434 192 44 430 470 42 30 3 7 20 16 122 100 22 28

Atmospheric

Data

Wind Speed

(mph)

8.00

Temp. (°F)

50°

Humidity (%)

50%

Notes:

Site Data: Site Surface: Grass Grade: Pavement Type: Average





Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)
1	2:06:16 PM	45.4	21	2:16:16 PM	52.5	41	111110	Luv (ub/t)	61	111110	Luv (ubri)
2	2:06:46 PM	46.5	22	2:16:46 PM	50.8	42			62		
3	2:07:16 PM	46.5	23	2:17:16 PM	47.3	43			63		
4	2:07:46 PM	46.3	24	2:17:46 PM	46.2	44			64		
5	2:08:16 PM	47.1	25	2:18:16 PM	47.1	45			65		
6	2:08:46 PM	45.9	26	2:18:46 PM	48.7	46			66		
7	2:09:16 PM	46.3	27	2:19:16 PM	53.5	47			67		
8	2:09:46 PM	46.3	28	2:19:46 PM	53.3	48			68		
9	2:10:16 PM	46.4	29	2:20:16 PM	49.0	49			69		
10	2:10:46 PM	46.6	30	2:20:46 PM	48.4	50			70		
11	2:11:16 PM	46.8	31	2:21:16 PM	45.4	51			71		
12	2:11:46 PM	47.8	32	2:21:46 PM	53.7	52			72		
13	2:12:16 PM	45.9	33	2:22:16 PM	48.3	53			73		
14	2:12:46 PM	46.9	34	2:22:46 PM	49.4	54			74		
15	2:13:16 PM	46.8	35	2:23:16 PM	50.5	55			75		
16	2:13:46 PM	47.3	36	2:23:46 PM	48.8	56			76		
17	2:14:16 PM	49.0	37	2:24:16 PM	46.4	57			77		
18	2:14:46 PM	49.7	38	2:24:46 PM	46.0	58			78		
19	2:15:16 PM	46.4	39	2:25:16 PM	47.7	59			79		
20	2:15:46 PM	48.1	40	2:25:46 PM	47.3	60			80		

Skelly and Loy inc.

Site # M-04 Description: 3601 Secret Grove Court Done By: EJA S&L 1 (SN 3895) Meter: **Monitoring Data:** 2/9/21 Date Start Time 14:06:30 **End Time** 14:26:30 Duration 20 minutes Leq (dBA) 52.0 Traffic Data: 20 Minute Roadway **Dumfries** I-95 Van Buren NB SB NB SB WB EB Direction Traffic Total:

1184 1564 197 53 472 514 1020 1434 192 44 430 470 3 42 30 7 20 16 122 100 22 28

Atmospheric

Data

Wind Speed (mph) 8.00

Temp. (°F)

50°

Humidity (%)

50%

Site Data: Site Surface: Grass Grade: Pavement Type: Average





Notes: Site is relatively quiet. Can hear leaves rustling in wind over I-95 traffic noise, although I-95 traffic

noise is the dominant noise source.

Num Time Lav (dBA) Num Time Lav (dBA) Num Time Lav (dBA) Num Time Lav (dBA) 2:06:30 PM 21 2:16:30 PM 52.6 50.0 41 61 2:07:00 PM 2:17:00 PM 62 53.6 22 51.7 42 2:07:30 PM 49.9 23 2:17:30 PM 51.8 43 63 2:08:00 PM 51.2 24 2:18:00 PM 51.5 44 64 25 2:08:30 PM 50.7 2:18:30 PM 52.3 45 65 2:09:00 PM 51.4 26 2:19:00 PM 54.3 46 66 2:09:30 PM 51.8 27 2:19:30 PM 52.8 47 67 2:10:00 PM 50.9 28 2:20:00 PM 52.8 48 68 2:10:30 PM 29 2:20:30 PM 50.7 49 69 52.7 10 2:11:00 PM 51.4 30 2:21:00 PM 51.2 50 70 71 11 2:11:30 PM 51.1 31 2:21:30 PM 49.9 51 12 2:12:00 PM 52.7 32 2:22:00 PM 53.0 52 72 **13** 2:12:30 PM 33 2:22:30 PM 54.0 53 73 52.8 2:13:00 PM 53.2 34 2:23:00 PM 52.0 54 74 15 2:13:30 PM 52.5 35 2:23:30 PM 50.0 55 75 16 2:14:00 PM 52.0 36 2:24:00 PM 51.1 56 76 2:14:30 PM 17 51.5 37 2:24:30 PM 50.4 57 77 18 2:15:00 PM 49.6 38 2:25:00 PM 51.4 58 78 **19** 2:15:30 PM 39 53.2 2:25:30 PM 52.2 59 79 2:26:00 PM **20** 2:16:00 PM 53.2 40 53.9 60 80

Skelly and Loy inc.

Cars

MT

Description: 3388 Soaring Circle Site # M-06 Atmospheric Done By: AJD, EJA Data S&L 3 (SN 3897) Wind Speed Meter: (mph) 5.00 Monitoring Data: Date Temp. (°F) 2/9/21 12:22:00 Start Time **End Time** 12:42:00 47° Duration 20 min Humidity (%) Leq (dBA) 59.8 56% Traffic Data: 20 Minute Roadway Cardinal Drive Van Buren Benita Fitzgerald I-95 Direction SB EB WB NB SB NB SB Traffic Total: 1344 1334 214 | 133 5 13 120 96 Cars 1120 1134 214 129 5 11 120 90 4 MT 46 38 0 6 0

Site Data: Site Surface: Grass Grade: Pavement Type: Average

0 0

0

0

162

178





Notes: Noise meter secured to deck post. Wooden noise barrier (ineffective) present in back yard.

I-95 travel lanes visible from site of meter placement.

ı	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	ııme	Lav (dBA)
ı	1	12:20:00 PM	59.5	21			41			61		
ı	2	12:25:00 PM	59.5	22			42			62		
ı	3	12:30:00 PM	60.0	23			43			63		
ı	4	12:35:00 PM	60.0	24			44			64		
ı	5	12:40:00 PM	60.1	25			45			65		
ı	6			26			46			66		
ı	7			27			47			67		
	8			28			48			68		
ı	9			29			49			69		
ı	10			30			50			70		
	11			31			51			71		
	12			32			52			72		
ı	13			33			53			73		
	14			34			54			74		
ı	15			35			55			75		
	16			36			56			76		
	17			37			57			77		
	18			38			58			78		
	19			39			59			79		
	20			40			60			80		

Time Lov (dDA) Num Time Lov (dDA) Num Time Lov (dDA

Skelly and Loy inc.

Description: 3215 Flegling Circle Site # M-07 Done By: AJD S&L 2 (SN 5093) Meter: Monitoring Data: Date 2/9/21 **Start Time** 12:22:00 **End Time** 12:42:00 Duration 20 minutes Leq (dBA) 63.3 Traffic Data: 20 Minute Roadway I-95 Cardinal Drive Van Buren Benita Fitzgerald SB NB EB Direction NB WB SB Traffic Total: 1344 1334 214 | 133 5 13 Cars 1120 1134 214 129 5 11

46

178

Meter Location

Notes:

Atmospheric

Data Wind Speed

(mph)

5.00

Temp. (°F)

47°

Humidity (%)

56%

SB

96

90

6

0

NB

120

120

0

0

Site Data: Site Surface: Grass Grade: Pavement Type: Average

0 4

0

0

38

162



Г	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)
Ιŀ	1	12:22:00 PM	61.9	21	12:32:00 PM		41	inite	Lav (UBA)	61	THILE	Lav (ubA)
lŀ				-			_					
Iŀ	2	12:22:30 PM	61.7	22	12:32:30 PM	69.7	42			62		
IL	3	12:23:00 PM	61.4	23	12:33:00 PM		43			63		
L	4	12:23:30 PM	62.3	24	12:33:30 PM	64.1	44			64		
L	5	12:24:00 PM	62.1	25	12:34:00 PM	64.1	45			65		
П	6	12:24:30 PM	62.2	26	12:34:30 PM	63.2	46			66		
П	7	12:25:00 PM	61.2	27	12:35:00 PM	64.2	47			67		
П	8	12:25:30 PM	61.9	28	12:35:30 PM	63.5	48			68		
П	9	12:26:00 PM	61.5	29	12:36:00 PM	64.0	49			69		
П	10	12:26:30 PM	63.0	30	12:36:30 PM	62.4	50			70		
П	11	12:27:00 PM	63.1	31	12:37:00 PM	62.6	51			71		
	12	12:27:30 PM	63.8	32	12:37:30 PM	61.8	52			72		
lſ	13	12:28:00 PM	63.4	33	12:38:00 PM	62.4	53			73		
	14	12:28:30 PM	63.0	34	12:38:30 PM	62.2	54			74		
	15	12:29:00 PM	62.7	35	12:39:00 PM	61.0	55			75		
П	16	12:29:30 PM	63.3	36	12:39:30 PM	63.4	56			76		
. [17	12:30:00 PM	62.4	37	12:40:00 PM	62.2	57			77		
	18	12:30:30 PM	63.5	38	12:40:30 PM	63.1	58			78		
	19	12:31:00 PM	63.6	39	12:41:00 PM	63.2	59			79		
ſ	20	12:31:30 PM	64.3	40	12:41:30 PM	62.5	60			80		

Monitoring Notes

Skelly and Loy inc.

MT

Description: 15606 Habitat Court Site # M-08 Done By: AJD Rion 3 (1198633) Meter: Monitoring Data: Date 2/9/21 **Start Time** 12:22:00 **End Time** 12:42:00 Duration 20 minutes Leq (dBA) 48.2 Traffic Data: 20 Minute Roadway Cardinal Drive I-95 Direction NB

Traffic Total:

Cars

MT

HT

Atmospheric Data Wind Speed (mph) 5.00 Temp. (°F) 47° Humidity (%)

56% Van Buren SB NB EB WB SB 1344 1334 214 | 133 5 13 1120 1134 214 129 5 11 46 38 0 4 178 162 0 0

Benita Fitzgerald NB SB 120 96 120 90 0 6 0 0

Site Data: Site Surface: Grass Grade: Pavement Type: Average



Monitoring Notes Notes:

Meter Location

Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)	Num	Time	Lav (dBA)
1	12:21:51 PM	45.6	21	12:31:51 PM	47.6	41			61		
2	12:22:21 PM	44.5	22	12:32:21 PM	44.9	42			62		
3	12:22:51 PM	44.4	23	12:32:51 PM	44.7	43			63		
4	12:23:21 PM	47.4	24	12:33:21 PM	45.3	44			64		
5	12:23:51 PM	44.9	25	12:33:51 PM	45.5	45			65		
6	12:24:21 PM	47.9	26	12:34:21 PM	43.8	46			66		
7	12:24:51 PM	49.1	27	12:34:51 PM	43.7	47			67		
8	12:25:21 PM	49.7	28	12:35:21 PM	46.2	48			68		
9	12:25:51 PM	45.7	29	12:35:51 PM	45.9	49			69		
10	12:26:21 PM	46.0	30	12:36:21 PM	48.1	50			70		
11	12:26:51 PM	46.6	31	12:36:51 PM	56.0	51			71		
12	12:27:21 PM	53.1	32	12:37:21 PM	47.2	52			72		
13	12:27:51 PM	54.6	33	12:37:51 PM	44.2	53			73		
14	12:28:21 PM	46.6	34	12:38:21 PM	45.4	54			74		
15	12:28:51 PM	49.2	35	12:38:51 PM	47.9	55			75		
16	12:29:21 PM	43.2	36	12:39:21 PM	46.1	56			76		
17	12:29:51 PM	45.3	37	12:39:51 PM	48.6	57			77		
18	12:30:21 PM	51.9	38	12:40:21 PM	47.6	58			78		
19	12:30:51 PM	43.6	39	12:40:51 PM	45.6	59			79		
20	12:31:21 PM	47.7	40	12:41:21 PM	45.7	60			80		

Skelly and Loy inc.

FilenameM01 Test Location16815 Mill Station Way Employee NameAJD Employee Number DepartmentENV VDOT Van Buren Road Exten sion 20 minute short-term traffic noise measuremen ts Calibrator TypeMetrosonics CL304 SN4480 Calibrator Cal. Date2020-06-02

User ID:
LOGGING STARTED02/09/21 at 13:58:30 TOTAL LOGGING TIME0 DAYS 00:41:36 LOGGING STOPPED02/09/21 at 14:40:06 TOTAL INTERVALS84 INTERVAL LENGTH00:00:30
AUTO STOPNO CLOCK SYNCHYES RESPONSE RATESLOW FILTERA WT.
PRE-TEST CALIBRATION TIME02/09/21 AT 10:27:25 PRE-TEST CALIBRATION RANGE40.9 TO 140.9 dB POST-TEST CALIBRATION TIME02/10/21 AT 04:12:35 POST-TEST CALIBRATION RANGE40.9 TO 140.9 CUTOFF USED FOR TIME HISTORY LavNONE
<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>
EXCHANGE RATE3dB CUTOFFS80dB 90dB CEILING115dB DOSE CRITERION LEVEL 90dB DOSE CRITERION LENGTH 8 HOURS

Lav	56.3dB					
Lav (80)	40.9dB					
Lav (90)	40.9dB					
SEL	90.2dB					
TWA	45.8dB					
TWA (80)	40.9dB					
TWA (90)	40.9dB					
Lmax						
DOSE (80) PROJ. DOSE (80) DOSE (90) PROJ. DOSE (90)	0.00% 0.00%					

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

02/09/21	
13:58:30 60.8 73.5 UNDER 61.9	51.9
13:59:00 55.6 59.6 UNDER 57.9	52.9
13:59:30 52.7 55.3 UNDER 54.9	50.9
14:00:00 51.3 55.1 UNDER 52.9	49.9
14:00:30 52.0 55.7 UNDER 54.9	48.9
14:01:00 58.3 65.5 UNDER 61.9	54.9
14:01:30 56.6 60.4 UNDER 59.9	52.9
14:02:00 52.7 55.2 UNDER 54.9	50.9
14:02:30 53.6 55.7 UNDER 54.9	50.9
14:03:00 54.7 58.3 UNDER 55.9	53.9
14:03:30 55.2 57.0 UNDER 56.9	52.9
14:04:00 52.7 56.4 UNDER 54.9	50.9
14:04:30 51.2 52.4 UNDER 51.9	50.9
14:05:00 54.5 58.3 UNDER 57.9	51.9
14:05:30 55.5 59.5 UNDER 57.9	53.9
14:06:00 54.2 60.0 UNDER 57.9	50.9
14:06:30 50.5 51.6 UNDER 51.9	49.9
14:07:00 58.1 64.1 UNDER 62.9	49.9
14:07:30 58.0 63.9 UNDER 59.9	55.9
14:08:00 55.8 57.7 UNDER 57.9	52.9
14:08:30 51.9 53.9 UNDER 52.9	50.9
14:09:00 53.3 59.5 UNDER 55.9	49.9
14:09:30 56.7 60.9 UNDER 60.9	51.9
14:10:00 57.2 61.1 UNDER 60.9	53.9
14:10:30 54.0 57.9 UNDER 56.9	51.9

14:11:00	51.0	52.4	UNDER	52.9	49.9
14:11:30	53.1	55.5	UNDER	54.9	51.9
14:12:00	54.2	55.2	UNDER	55.9	53.9
14:12:30	54.1	57.9	UNDER	56.9	49.9
14:13:00	51.0	53.1	UNDER	51.9	49.9
14:13:30	54.3	56.8	UNDER	56.9	51.9
14:14:00	56.4	59.3	UNDER	58.9	53.9
14:14:30	56.2	59.6	UNDER	58.9	53.9
14:15:00	54.5	58.7	UNDER	56.9	51.9
14:15:30	53.9	64.7	UNDER	55.9	49.9
14:16:00	56.7	62.0	UNDER	60.9	50.9
14:16:30	54.3	55.6	UNDER	55.9	52.9
14:17:00	55.0	62.8	UNDER	58.9	50.9
14:17:30	52.5	56.7	UNDER	54.9	50.9
14:18:00	55.1	57.9	UNDER	57.9	51.9
14:18:30	57.3	59.9	UNDER	59.9	54.9
14:19:00	53.6	56.7	UNDER	55.9	50.9
14:19:30	50.8	53.3	UNDER	51.9	49.9
14:20:00	50.9	54.3	UNDER	53.9	48.9
14:20:30	55.1	58.0	UNDER	56.9	52.9
14:21:00	55.6	56.7	UNDER	56.9	53.9
14:21:30	54.8	60.7	UNDER	58.9	50.9
14:22:00	54.3	57.5	UNDER	55.9	50.9
14:22:30	58.3	63.6	UNDER	62.9	54.9
14:23:00	56.4	57.6	UNDER	57.9	54.9
14:23:30	55.3	60.9	UNDER	58.9	51.9
14:24:00	51.3	54.7	UNDER	53.9	49.9
14:24:30	55.8	59.9	UNDER	58.9	49.9
14:25:00	59.4	63.1	UNDER	62.9	56.9
14:25:30	56.3	60.2	UNDER	58.9	52.9
14:26:00	54.5	56.8	UNDER	56.9	52.9
14:26:30	56.0	60.2	UNDER	58.9	52.9
14:27:00	56.2	59.1	UNDER	57.9	54.9
14:27:30	55.0	58.0	UNDER	56.9	52.9
14:28:00	52.0	56.7	UNDER	53.9	49.9
14:28:30	53.8	58.7	UNDER	56.9	50.9
14:29:00	60.9	70.0	UNDER	63.9	53.9
14:29:30	52.9	54.8	UNDER	54.9	51.9
14:30:00	52.5	58.7	UNDER	54.9	49.9
14:30:30	51.7	54.5	UNDER	53.9	49.9
14:31:00	58.4	71.5	UNDER	59.9	52.9
14:31:30	54.6	59.1	UNDER	56.9	52.9
14:32:00	65.5	80.0	UNDER	67.9	49.9
14:32:30	54.2	56.8	UNDER	55.9	51.9
14:33:00	58.4	62.9	UNDER	61.9	53.9
14:33:30	59.4	68.0	UNDER	62.9	49.9
14:34:00	56.0	63.5	UNDER	60.9	49.9
14:34:30	50.3	52.4	UNDER	51.9	47.9
14:35:00	52.8	56.1	UNDER	54.9	48.9
14:35:30	56.8	62.9	UNDER	59.9	53.9
	23.0	~ -	J		

14:36:00	53.8	58.4	UNDER	56.9	50.9
14:36:30	52.5	56.2	UNDER	54.9	50.9
14:37:00	53.0	59.5	UNDER	56.9	49.9
14:37:30	55.1	56.8	UNDER	56.9	53.9
14:38:00	55.2	59.1	UNDER	57.9	53.9
14:38:30	52.0	53.6	UNDER	52.9	50.9
14:39:00	53.2	55.4	UNDER	54.9	51.9
14:39:30	65.8	72.9	UNDER	70.9	51.9
14:40:00	65.8	77.4	UNDER	65.9	57.9

Measurement Site M-02 17381 Four Seasons Drive CSV [Setting] [Property] System Version, 1.7 NX-42EX Version, 1.6 NX-42WR Version, 1.6 NX-42RT Version, 1.6 NX-42FT Version,1.2 Serial Number, 464709 [NL-42] Store Name, 1001 Type, NL-52 Index Number,1 Frequency Weighting, A Time Weighting, S Output Level Range Upper, 130 Output Level Range Lower, 30 Delay Time, Off Windscreen Correction, WS-10 Diffuse Sound Field Correction,Off LN Mode, Leq 1s Display Leq,On Display LE,Off Display Lmax, On Display Lmin, On Display Ly, Off Display LN1,Off Display LN2,Off

Display LN3,Off Display LN4,Off Display LN5,Off

Percentile 1,5 Percentile 2,10 Percentile 3,50 Percentile 4,90 Percentile 5,95.0

Ly Type,Off
AC OUT,Main
DC OUT,Off
Comparator,Off
Comparator Level,70
Comparator Channel,Main
Battery Type,Alkaline

Display Time Level, On

Communication Interface, RS232C

Baud Rate,9600 Language,English

[NX-42EX]
Lp Store Interval,Leq_1s
Leq Calculation Interval,5 m
Timer Auto Start Time,Timer Auto Stop Time,Timer Auto Interval,-

[Status]

Sleep Mode,Off

Measurement Start Time,2021/02/09 10:18:48
Measurement Stop Time,2021/02/10 13:12:08
Lp Data Number,96799
Leq Data Number,323
Measure Time,01d 02:53:19.4

```
Address, Start Time, Measurement
Time, Leq, LE, Lmax, Lmin, Ly, LN1, LN2, LN3, LN4, LN5, Over, Under,
    1,2021/02/09 10:18:48,00d 00:05:00.0, 78.9,103.7,103.0, 46.8, -.-, 71.9, 66.9,
48.8, 47.3, 47.1,----,
    2,2021/02/09 10:23:48,00d 00:05:00.0, 69.7, 94.5, 88.2, 46.7, -.-, 72.7, 68.2,
49.5, 47.3, 47.1,----,
    3,2021/02/09 10:28:48,00d 00:05:00.0, 50.2, 75.0, 55.8, 46.4, -.-, 54.4, 53.7,
48.7, 47.3, 47.0,----,
    4,2021/02/09 10:33:48,00d 00:05:00.0, 51.4, 76.2, 59.6, 46.3, -.-, 54.8, 54.3,
50.4, 47.4, 47.1,----,
    5,2021/02/09 10:38:48,00d 00:05:00.0, 50.1, 74.9, 56.0, 46.2, ---, 54.2, 53.6,
48.4, 47.0, 46.7,----,
    6,2021/02/09 10:43:48,00d 00:05:00.0, 50.2, 75.0, 60.2, 44.9, -.-, 55.9, 52.6,
48.2, 46.3, 45.5,----,
    7,2021/02/09 10:48:48,00d 00:05:00.0, 49.0, 73.8, 54.0, 46.5, -.-, 51.2, 50.4,
48.6, 47.3, 47.1,----,
    8,2021/02/09 10:53:48,00d 00:05:00.0, 47.9, 72.7, 53.0, 45.8, -.-, 49.9, 49.2,
47.7, 46.4, 46.3,----,
    9,2021/02/09 10:58:48,00d 00:05:00.0, 47.3, 72.1, 51.6, 44.2, -.-, 48.9, 48.4,
47.2, 45.8, 45.3,----,
   10,2021/02/09 11:03:48,00d 00:05:00.0, 46.6, 71.4, 51.0, 44.1, -.-, 48.5, 48.0,
46.3, 45.1, 44.8,----,
   11,2021/02/09 11:08:48,00d 00:05:00.0, 46.4, 71.2, 50.1, 44.4, -.-, 48.1, 47.3,
46.3, 45.3, 45.1,----,
   12,2021/02/09 11:13:48,00d 00:05:00.0, 46.2, 71.0, 49.2, 44.8, -.-, 47.8, 47.4,
46.1, 45.1, 45.0,----,
   13,2021/02/09 11:18:48,00d 00:05:00.0, 47.2, 72.0, 52.8, 45.1, -.-, 49.3, 48.7,
46.9, 45.6, 45.5,----,
   14,2021/02/09 11:23:48,00d 00:05:00.0, 47.0, 71.8, 51.3, 44.9, -.-, 48.6, 48.2,
46.8, 45.8, 45.6,----,
   15,2021/02/09 11:28:48,00d 00:05:00.0, 47.7, 72.5, 53.9, 45.4, -.-, 50.1, 49.2,
47.3, 45.9, 45.7,----,
   16,2021/02/09 11:33:48,00d 00:05:00.0, 47.2, 72.0, 50.1, 45.3, -.-, 48.8, 48.4,
47.1, 45.9, 45.7,----,
   17,2021/02/09 11:38:48,00d 00:05:00.0, 48.1, 72.9, 52.8, 45.4, ---, 50.9, 49.6,
47.5, 46.5, 46.3,----,
   18,2021/02/09 11:43:48,00d 00:05:00.0, 47.8, 72.6, 53.8, 44.3, -.-, 51.4, 49.8,
47.1, 45.6, 44.8,----,
   19,2021/02/09 11:48:48,00d 00:05:00.0, 55.6, 80.4, 68.7, 44.8, -.-, 61.8, 59.8,
48.7, 46.0, 45.6,----,
   20,2021/02/09 11:53:48,00d 00:05:00.0, 51.0, 75.8, 58.3, 45.7, -.-, 54.9, 53.3,
49.7, 47.6, 46.7,----,
   21,2021/02/09 11:58:48,00d 00:05:00.0, 48.1, 72.9, 51.9, 45.4, ---, 49.7, 49.3,
48.1, 46.5, 46.1,----,
   22,2021/02/09 12:03:48,00d 00:05:00.0, 49.2, 74.0, 57.3, 45.5, -.-, 51.2, 50.4,
48.7, 47.4, 47.2,---,---,
   23,2021/02/09 12:08:48,00d 00:05:00.0, 50.6, 75.4, 55.6, 45.9, -.-, 53.8, 53.1,
49.9, 48.0, 47.4,----,
   24,2021/02/09 12:13:48,00d 00:05:00.0, 46.1, 70.9, 50.8, 42.3, -.-, 48.2, 47.6,
46.1, 43.8, 43.1,----,
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25,2021/02/09 12:18:48,00d 00:05:00.0, 44.5, 69.3, 48.2, 42.7, -.-, 46.0, 45.5,
44.2, 43.4, 43.2,----,
   26,2021/02/09 12:23:48,00d 00:05:00.0, 45.6, 70.4, 49.9, 43.4, -.-, 47.8, 47.1,
45.4, 44.0, 43.8,----,
   27,2021/02/09 12:28:48,00d 00:05:00.0, 45.8, 70.6, 51.9, 43.2, -.-, 48.8, 47.4,
45.0, 44.0, 43.8,----,
   28,2021/02/09 12:33:48,00d 00:05:00.0, 46.7, 71.5, 52.5, 44.2, ---, 49.3, 48.2,
46.2, 45.2, 44.9,----,
   29,2021/02/09 12:38:48,00d 00:05:00.0, 46.6, 71.4, 51.9, 44.7, -.-, 48.9, 48.0,
46.1, 45.1, 45.0,----,
   30,2021/02/09 12:43:48,00d 00:05:00.0, 46.9, 71.7, 53.1, 44.5, -.-, 48.7, 48.1,
46.6, 45.2, 45.1,----,
   31,2021/02/09 12:48:48,00d 00:05:00.0, 46.4, 71.2, 53.2, 43.3, -.-, 49.4, 48.5,
45.8, 44.3, 44.1,----,
   32,2021/02/09 12:53:48,00d 00:05:00.0, 44.5, 69.3, 47.6, 42.5, -.-, 46.5, 45.5,
44.4, 43.3, 43.1,----,
   33,2021/02/09 12:58:48,00d 00:05:00.0, 45.3, 70.1, 47.1, 43.1, -.-, 46.6, 46.4,
45.1, 44.3, 44.1,----,
   34,2021/02/09 13:03:48,00d 00:05:00.0, 47.7, 72.5, 51.5, 45.9, -.-, 49.7, 48.9,
47.4, 46.5, 46.3,----,
   35,2021/02/09 13:08:48,00d 00:05:00.0, 49.0, 73.8, 51.0, 47.2, -.-, 50.3, 50.1,
48.9, 48.1, 47.7,----,
   36,2021/02/09 13:13:48,00d 00:05:00.0, 47.0, 71.8, 51.4, 44.9, -.-, 48.7, 48.2,
46.8, 45.9, 45.7,----,
   37,2021/02/09 13:18:48,00d 00:05:00.0, 47.0, 71.8, 50.0, 45.3, -.-, 48.6, 48.1,
46.8, 46.0, 45.8,----,
   38,2021/02/09 13:23:48,00d 00:05:00.0, 46.1, 70.9, 50.9, 44.3, -.-, 48.1, 47.2,
45.7, 45.0, 44.9,----,
   39,2021/02/09 13:28:48,00d 00:05:00.0, 46.9, 71.7, 55.2, 44.2, -.-, 49.6, 48.4,
46.3, 44.9, 44.8,----,
   40,2021/02/09 13:33:48,00d 00:05:00.0, 52.2, 77.0, 62.7, 43.5, -.-, 59.7, 57.9,
47.1, 44.8, 44.5,----,
   41,2021/02/09 13:38:48,00d 00:05:00.0, 48.9, 73.7, 60.3, 42.7, -.-, 53.9, 51.1,
45.6, 44.1, 43.8,----,
   42,2021/02/09 13:43:48,00d 00:05:00.0, 46.3, 71.1, 56.1, 43.1, ---, 49.0, 47.3,
45.5, 44.3, 44.1,----,
   43,2021/02/09 13:48:48,00d 00:05:00.0, 44.8, 69.6, 49.2, 41.5, -.-, 47.1, 46.6,
44.6, 42.6, 42.2,----,
   44,2021/02/09 13:53:48,00d 00:05:00.0, 43.4, 68.2, 46.9, 41.1, -.-, 45.1, 44.7,
43.3, 41.8, 41.5,----,
   45,2021/02/09 13:58:48,00d 00:05:00.0, 46.3, 71.1, 56.2, 42.8, -.-, 49.7, 48.5,
45.1, 43.4, 43.2,----,
   46,2021/02/09 14:03:48,00d 00:05:00.0, 46.8, 71.6, 50.6, 44.2, ---, 48.9, 48.4,
46.5, 45.2, 44.9,----,
   47,2021/02/09 14:08:48,00d 00:05:00.0, 46.7, 71.5, 52.3, 44.7, -.-, 48.7, 48.1,
46.3, 45.3, 45.1,----,
   48,2021/02/09 14:13:48,00d 00:05:00.0, 48.5, 73.3, 54.7, 44.9, -.-, 51.0, 50.4,
48.1, 45.9, 45.6,----,
   49,2021/02/09 14:18:48,00d 00:05:00.0, 48.5, 73.3, 53.8, 44.0, -.-, 51.5, 50.7,
47.9, 45.5, 44.8,----,
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50,2021/02/09 14:23:48,00d 00:05:00.0, 48.3, 73.1, 52.9, 44.4, -.-, 51.7, 50.7,
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   51,2021/02/09 14:28:48,00d 00:05:00.0, 45.7, 70.5, 54.0, 43.7, -.-, 48.2, 46.7,
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  283,2021/02/10 09:48:48,00d 00:05:00.0, 48.5, 73.3, 52.3, 45.9, -.-, 50.2, 49.8,
48.2, 47.0, 46.6,----,
  284,2021/02/10 09:53:48,00d 00:05:00.0, 49.0, 73.8, 55.5, 45.9, -.-, 50.7, 50.2,
48.8, 47.7, 47.0,----,
  285,2021/02/10 09:58:48,00d 00:05:00.0, 50.5, 75.3, 54.2, 47.8, ---, 52.5, 52.0,
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  286,2021/02/10 10:03:48,00d 00:05:00.0, 49.6, 74.4, 54.7, 46.6, -.-, 52.0, 51.1,
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  287,2021/02/10 10:08:48,00d 00:05:00.0, 48.7, 73.5, 56.4, 44.6, ---, 51.7, 51.2,
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  288,2021/02/10 10:13:48,00d 00:05:00.0, 48.6, 73.4, 52.2, 44.6, -.-, 50.7, 50.4,
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  289,2021/02/10 10:18:48,00d 00:05:00.0, 48.7, 73.5, 52.7, 45.2, -.-, 51.3, 50.6,
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  290,2021/02/10 10:23:48,00d 00:05:00.0, 47.0, 71.8, 50.3, 43.4, -.-, 48.9, 48.2,
46.8, 45.3, 44.8,---,---,
  291,2021/02/10 10:28:48,00d 00:05:00.0, 45.4, 70.2, 49.2, 42.1, ---, 47.9, 47.2,
45.1, 43.1, 42.7,----,
  292,2021/02/10 10:33:48,00d 00:05:00.0, 44.2, 69.0, 50.1, 41.0, -.-, 47.1, 45.9,
43.5, 42.2, 41.6,---,
  293,2021/02/10 10:38:48,00d 00:05:00.0, 47.8, 72.6, 55.9, 44.0, ---, 53.6, 49.3,
46.1, 44.5, 44.3,----,
  294,2021/02/10 10:43:48,00d 00:05:00.0, 48.7, 73.5, 54.3, 44.4, -.-, 52.9, 51.1,
47.9, 45.4, 44.9,---,
  295,2021/02/10 10:48:48,00d 00:05:00.0, 46.7, 71.5, 58.2, 42.3, ---, 52.6, 50.1,
44.3, 43.0, 42.8,---,-
  296,2021/02/10 10:53:48,00d 00:05:00.0, 45.9, 70.7, 53.8, 42.6, ---, 50.1, 48.0,
44.7, 43.2, 42.9,----,
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  298,2021/02/10 11:03:48,00d 00:05:00.0, 46.1, 70.9, 49.4, 43.7, -.-, 47.4, 47.2,
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  299,2021/02/10 11:08:48,00d 00:05:00.0, 46.3, 71.1, 50.7, 42.7, -.-, 49.0, 48.4,
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300,2021/02/10 11:13:48,00d 00:05:00.0, 47.8, 72.6, 56.0, 45.3, -.-, 50.3, 49.0,
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  301,2021/02/10 11:18:48,00d 00:05:00.0, 47.4, 72.2, 50.8, 45.4, -.-, 49.6, 48.8,
47.1, 46.0, 45.7,----,
  302,2021/02/10 11:23:48,00d 00:05:00.0, 46.6, 71.4, 51.2, 43.6, -.-, 48.1, 47.9,
46.6, 44.7, 44.4,----,
  303,2021/02/10 11:28:48,00d 00:05:00.0, 48.0, 72.8, 58.8, 43.6, -.-, 51.3, 49.7,
46.5, 45.2, 44.7,----,
  304,2021/02/10 11:33:48,00d 00:05:00.0, 47.1, 71.9, 52.3, 44.8, -.-, 49.6, 48.8,
46.6, 45.3, 45.2,----,
  305,2021/02/10 11:38:48,00d 00:05:00.0, 46.9, 71.7, 53.6, 44.2, -.-, 49.8, 48.5,
46.2, 44.9, 44.7,----,
  306,2021/02/10 11:43:48,00d 00:05:00.0, 49.4, 74.2, 55.0, 45.0, -.-, 52.9, 51.3,
49.0, 46.8, 46.3,----,
  307,2021/02/10 11:48:48,00d 00:05:00.0, 45.8, 70.6, 49.0, 44.1, -.-, 47.0, 46.7,
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46.2, 45.0, 44.6,---,---,
  309,2021/02/10 11:58:48,00d 00:05:00.0, 46.8, 71.6, 49.6, 44.0, -.-, 49.0, 48.5,
46.3, 45.0, 44.8,---,---,
  310,2021/02/10 12:03:48,00d 00:05:00.0, 46.0, 70.8, 49.6, 43.4, -.-, 47.8, 47.3,
45.9, 44.2, 43.9,----,
  311,2021/02/10 12:08:48,00d 00:05:00.0, 45.6, 70.4, 49.4, 42.9, -.-, 47.8, 47.1,
45.3, 44.0, 43.7,----,
  312,2021/02/10 12:13:48,00d 00:05:00.0, 45.4, 70.2, 55.2, 41.1, -.-, 47.4, 46.6,
44.9, 42.8, 42.3,----,
  313,2021/02/10 12:18:48,00d 00:05:00.0, 45.9, 70.7, 52.5, 43.5, -.-, 48.4, 47.4,
45.2, 44.1, 43.9,----,
  314,2021/02/10 12:23:48,00d 00:05:00.0, 44.6, 69.4, 52.2, 41.7, -.-, 46.0, 45.5,
44.5, 43.2, 42.7,----,
  315,2021/02/10 12:28:48,00d 00:05:00.0, 44.1, 68.9, 50.8, 41.8, -.-, 46.6, 45.4,
43.6, 42.5, 42.3,----,
  316,2021/02/10 12:33:48,00d 00:05:00.0, 44.3, 69.1, 48.7, 42.1, ---, 46.2, 45.3,
44.1, 43.0, 42.8,----,
  317,2021/02/10 12:38:48,00d 00:05:00.0, 51.2, 76.0, 62.0, 42.2, -.-, 57.9, 54.9,
46.8, 44.0, 43.3,----,
  318,2021/02/10 12:43:48,00d 00:05:00.0, 47.3, 72.1, 58.4, 43.6, -.-, 51.5, 49.5,
46.1, 44.8, 44.3,----,
  319,2021/02/10 12:48:48,00d 00:05:00.0, 47.3, 72.1, 51.4, 45.2, -.-, 49.3, 48.4,
47.0, 46.0, 45.8,---,---,
  320,2021/02/10 12:53:48,00d 00:05:00.0, 47.3, 72.1, 58.3, 44.2, -.-, 50.5, 48.7,
46.3, 44.9, 44.7,----,
  321,2021/02/10 12:58:48,00d 00:05:00.0, 48.5, 73.3, 55.3, 45.5, -.-, 51.3, 50.0,
47.9, 46.7, 46.3,----,
  322,2021/02/10 13:03:48,00d 00:05:00.0, 48.1, 72.9, 52.7, 46.0, -.-, 50.0, 49.4,
47.9, 46.7, 46.4,----,
  323,2021/02/10 13:08:48,00d 00:03:19.4, 69.8, 92.8, 88.8, 47.2, -.-, 74.7, 69.4,
52.0, 47.8, 47.3,----,
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Measurement Site M-03 3736 Chapman Mill Trail CSV [Setting] [Property] System Version, 2.0 NX-42EX Version, 1.9 NX-42WR Version, 1.7 NX-42RT Version, 1.9 NX-42FT Version, 1.3 Serial Number, 1198633 [NL-42] Store Name, 3002 Type, NL-52 Index Number,1 Frequency Weighting, A Time Weighting, S Output Level Range Upper, 130 Output Level Range Lower, 30 Delay Time, Off Windscreen Correction, WS-10 Diffuse Sound Field Correction,Off LN Mode, Leq 1s Display Leq,On Display LE,Off Display Lmax, On Display Lmin, On Display Ly, Off Display LN1,Off Display LN2,Off Display LN3,Off Display LN4,Off Display LN5,Off Display Time Level, On Percentile 1,5 Percentile 2,10 Percentile 3,50 Percentile 4,90 Percentile 5,95.0 Ly Type,Off AC OUT, Main DC OUT, Main Comparator, Off Comparator Level,70

Comparator Channel, Main Battery Type, Alkaline

Communication Interface,Off

Baud Rate,9600 Language,English

[NX-42EX]
Lp Store Interval,Leq_1s
Leq Calculation Interval,30 s
Timer Auto Start Time,-

Timer Auto Stop Time,-Timer Auto Interval,-

Sleep Mode, Off

[Status]

Measurement Start Time,2021/02/09 13:37:46
Measurement Stop Time,2021/02/09 15:01:02
Lp Data Number,4996
Leq Data Number,167
Measure Time,00d 01:23:16.3

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Address, Start Time, Measurement
Time, Leq, LE, Lmax, Lmin, Ly, LN1, LN2, LN3, LN4, LN5, Over, Under,
    1,2021/02/09 13:37:46,00d 00:00:30.0, 62.2, 77.0, 69.7, 44.0, -.-, 68.7, 67.5,
57.5, 44.3, 44.1,----,
    2,2021/02/09 13:38:16,00d 00:00:30.0, 56.8, 71.6, 65.9, 46.4, ---, 64.4, 63.8,
52.1, 45.5, 45.2,----,
    3,2021/02/09 13:38:46,00d 00:00:30.0, 43.8, 58.6, 51.6, 43.0, -.-, 45.7, 44.5,
43.5, 43.1, 42.9,----,
    4,2021/02/09 13:39:16,00d 00:00:30.0, 44.2, 59.0, 45.1, 43.1, -.-, 45.0, 45.0,
44.5, 43.3, 43.3,----,
    5,2021/02/09 13:39:46,00d 00:00:30.0, 44.6, 59.4, 46.4, 43.5, -.-, 46.0, 45.7,
44.6, 43.8, 43.7,----,
    6,2021/02/09 13:40:16,00d 00:00:30.0, 44.1, 58.9, 44.8, 43.1, -.-, 44.7, 44.6,
44.2, 43.4, 43.3,----,
    7,2021/02/09 13:40:46,00d 00:00:30.0, 43.1, 57.9, 43.7, 42.5, -.-, 43.7, 43.7,
43.2, 42.8, 42.5,----,
    8,2021/02/09 13:41:16,00d 00:00:30.0, 43.5, 58.3, 44.5, 42.8, -.-, 44.2, 44.1,
43.5, 43.0, 42.9,----,
    9,2021/02/09 13:41:46,00d 00:00:30.0, 43.8, 58.6, 46.1, 42.6, -.-, 45.8, 45.5,
43.3, 43.0, 42.9,----,
   10,2021/02/09 13:42:16,00d 00:00:30.0, 43.8, 58.6, 44.4, 43.2, -.-, 44.5, 44.4,
43.8, 43.5, 43.3,----,
   11,2021/02/09 13:42:46,00d 00:00:30.0, 43.8, 58.6, 44.8, 43.1, -.-, 44.7, 44.6,
43.6, 43.3, 43.2,----,
   12,2021/02/09 13:43:16,00d 00:00:30.0, 43.9, 58.7, 44.8, 43.3, -.-, 44.5, 44.4,
44.0, 43.5, 43.4,----,
   13,2021/02/09 13:43:46,00d 00:00:30.0, 44.2, 59.0, 46.4, 43.6, -.-, 45.6, 45.0,
44.0, 43.7, 43.6,----,
   14,2021/02/09 13:44:16,00d 00:00:30.0, 44.8, 59.6, 46.6, 43.3, ---, 46.6, 46.5,
44.3, 43.6, 43.3,----,
   15,2021/02/09 13:44:46,00d 00:00:30.0, 44.4, 59.2, 46.6, 43.2, -.-, 45.9, 45.6,
44.3, 43.4, 43.2,----,
   16,2021/02/09 13:45:16,00d 00:00:30.0, 43.6, 58.4, 44.7, 42.9, -.-, 44.5, 44.4,
43.5, 43.1, 42.9,----,
   17,2021/02/09 13:45:46,00d 00:00:30.0, 43.0, 57.8, 43.6, 42.4, ---, 43.6, 43.4,
43.1, 42.6, 42.6,----,
   18,2021/02/09 13:46:16,00d 00:00:30.0, 42.4, 57.2, 44.0, 41.5, -.-, 43.4, 43.0,
42.4, 41.8, 41.5,----,
   19,2021/02/09 13:46:46,00d 00:00:30.0, 43.2, 58.0, 44.7, 42.2, -.-, 44.5, 44.0,
43.0, 42.5, 42.3,----,
   20,2021/02/09 13:47:16,00d 00:00:30.0, 43.3, 58.1, 44.4, 42.7, ---, 44.4, 44.1,
43.2, 42.8, 42.7,----,
   21,2021/02/09 13:47:46,00d 00:00:30.0, 43.6, 58.4, 46.0, 42.3, ---, 45.6, 45.0,
43.1, 42.7, 42.6,----,
   22,2021/02/09 13:48:16,00d 00:00:30.0, 43.0, 57.8, 45.0, 42.3, -.-, 45.0, 43.7,
42.8, 42.4, 42.3,----,
   23,2021/02/09 13:48:46,00d 00:00:30.0, 42.2, 57.0, 43.0, 41.6, -.-, 43.0, 42.9,
42.2, 41.7, 41.6,----,
   24,2021/02/09 13:49:16,00d 00:00:30.0, 42.8, 57.6, 43.6, 42.0, -.-, 43.6, 43.4,
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25,2021/02/09 13:49:46,00d 00:00:30.0, 43.3, 58.1, 45.0, 42.1, -.-, 45.3, 44.8,
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   26,2021/02/09 13:50:16,00d 00:00:30.0, 43.5, 58.3, 45.4, 41.9, -.-, 45.5, 45.4,
43.1, 42.0, 42.0,----,
   27,2021/02/09 13:50:46,00d 00:00:30.0, 42.8, 57.6, 43.7, 42.0, -.-, 43.6, 43.5,
42.8, 42.3, 42.1,----,
   28,2021/02/09 13:51:16,00d 00:00:30.0, 45.1, 59.9, 48.9, 42.8, -.-, 48.0, 47.1,
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   29,2021/02/09 13:51:46,00d 00:00:30.0, 46.1, 60.9, 48.6, 43.6, -.-, 48.8, 47.7,
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43.0, 41.7, 41.2,----,
   31,2021/02/09 13:52:46,00d 00:00:30.0, 41.3, 56.1, 42.4, 40.4, ---, 42.1, 42.1,
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   32,2021/02/09 13:53:16,00d 00:00:30.0, 41.3, 56.1, 42.7, 40.5, -.-, 42.4, 42.0,
41.3, 40.7, 40.6,----,
   33,2021/02/09 13:53:46,00d 00:00:30.0, 41.4, 56.2, 42.5, 40.0, -.-, 42.3, 42.2,
41.4, 40.5, 40.1,----,
   34,2021/02/09 13:54:16,00d 00:00:30.0, 42.3, 57.1, 43.7, 41.4, -.-, 43.5, 43.4,
42.2, 41.7, 41.5,----,
   35,2021/02/09 13:54:46,00d 00:00:30.0, 41.6, 56.4, 42.3, 41.0, -.-, 42.0, 42.0,
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   36,2021/02/09 13:55:16,00d 00:00:30.0, 43.0, 57.8, 44.7, 41.8, -.-, 44.5, 44.4,
43.0, 42.2, 41.9,----,
   37,2021/02/09 13:55:46,00d 00:00:30.0, 44.5, 59.3, 48.0, 43.1, -.-, 47.0, 46.7,
43.8, 43.3, 43.2,----,
   38,2021/02/09 13:56:16,00d 00:00:30.0, 43.8, 58.6, 45.1, 43.0, -.-, 45.1, 44.8,
43.7, 43.2, 43.1,----,
   39,2021/02/09 13:56:46,00d 00:00:30.0, 43.9, 58.7, 46.1, 42.7, -.-, 45.8, 45.2,
43.8, 43.1, 43.0,----,
   40,2021/02/09 13:57:16,00d 00:00:30.0, 43.2, 58.0, 44.1, 42.7, -.-, 43.9, 43.9,
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   42,2021/02/09 13:58:16,00d 00:00:30.0, 43.8, 58.6, 45.0, 42.8, ---, 44.7, 44.5,
43.7, 43.2, 43.1,----,
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44.4, 43.6, 43.5,----,
   44,2021/02/09 13:59:16,00d 00:00:30.0, 45.1, 59.9, 46.6, 44.1, ---, 46.6, 46.2,
45.0, 44.3, 44.3,----,
   45,2021/02/09 13:59:46,00d 00:00:30.0, 49.1, 63.9, 53.0, 45.1, -.-, 52.0, 51.6,
48.3, 46.4, 46.2,----,
   46,2021/02/09 14:00:16,00d 00:00:30.0, 46.8, 61.6, 49.8, 45.0, ---, 49.3, 48.8,
46.2, 45.2, 44.8,----,
   47,2021/02/09 14:00:46,00d 00:00:30.0, 45.5, 60.3, 46.1, 44.8, -.-, 46.1, 46.1,
45.6, 45.0, 45.0, ----,
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46.1, 45.1, 44.8,----,
   49,2021/02/09 14:01:46,00d 00:00:30.0, 44.7, 59.5, 46.2, 43.6, -.-, 45.9, 45.8,
44.7, 43.9, 43.7,----,
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50,2021/02/09 14:02:16,00d 00:00:30.0, 45.4, 60.2, 47.3, 43.6, -.-, 47.3, 46.5,
45.3, 44.4, 43.7,----,
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44.9, 44.5, 44.3,----,
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45.3, 44.3, 44.2,----,
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44.5, 44.1, 43.8,----,
   56,2021/02/09 14:05:16,00d 00:00:30.0, 45.3, 60.1, 47.4, 44.3, ---, 47.4, 46.8,
44.9, 44.4, 44.4,----,
   57,2021/02/09 14:05:46,00d 00:00:30.0, 44.9, 59.7, 47.2, 44.0, -.-, 46.7, 46.6,
44.7, 44.1, 44.1,----,
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45.2, 44.7, 44.6,---,
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46.4, 44.5, 44.4,----,
   60,2021/02/09 14:07:16,00d 00:00:30.0, 46.5, 61.3, 48.7, 44.7, -.-, 48.5, 48.3,
46.0, 45.1, 45.1,----,
   61,2021/02/09 14:07:46,00d 00:00:30.0, 46.3, 61.1, 48.4, 44.7, ---, 47.6, 47.4,
46.2, 45.1, 45.0,----,
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47.1, 45.9, 45.8,----,
   63,2021/02/09 14:08:46,00d 00:00:30.0, 45.9, 60.7, 47.4, 45.3, -.-, 46.8, 46.8,
45.9, 45.4, 45.3,----,
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46.2, 45.4, 45.3,----,
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46.4, 45.2, 44.9,---,-
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46.2, 45.8, 45.4,----,
   67,2021/02/09 14:10:46,00d 00:00:30.0, 46.6, 61.4, 49.3, 45.0, ---, 49.2, 48.3,
45.9, 45.1, 44.8,----,
   68,2021/02/09 14:11:16,00d 00:00:30.0, 46.8, 61.6, 47.9, 45.4, ---, 47.9, 47.7,
46.8, 45.9, 45.7,----,
   69,2021/02/09 14:11:46,00d 00:00:30.0, 47.8, 62.6, 49.6, 45.5, -.-, 49.4, 49.3,
47.7, 46.4, 45.8,----,
   70,2021/02/09 14:12:16,00d 00:00:30.0, 45.9, 60.7, 47.8, 45.0, -.-, 47.3, 47.1,
45.8, 45.0, 44.9,----,
   71,2021/02/09 14:12:46,00d 00:00:30.0, 46.9, 61.7, 48.7, 45.1, ---, 48.4, 48.4,
46.8, 45.5, 45.2,----,
   72,2021/02/09 14:13:16,00d 00:00:30.0, 46.8, 61.6, 48.6, 44.7, -.-, 48.8, 48.2,
46.6, 45.1, 45.0,----,
   73,2021/02/09 14:13:46,00d 00:00:30.0, 47.3, 62.1, 49.1, 45.8, -.-, 48.7, 48.6,
47.3, 46.0, 45.7,----,
   74,2021/02/09 14:14:16,00d 00:00:30.0, 49.0, 63.8, 51.1, 47.0, -.-, 51.7, 51.0,
48.5, 47.0, 46.8,----,
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75,2021/02/09 14:14:46,00d 00:00:30.0, 49.7, 64.5, 52.8, 46.2, -.-, 52.2, 51.1,
49.6, 47.4, 46.1,----,
   76,2021/02/09 14:15:16,00d 00:00:30.0, 46.4, 61.2, 48.3, 45.3, -.-, 48.4, 47.8,
46.1, 45.2, 45.0,----,
   77,2021/02/09 14:15:46,00d 00:00:30.0, 48.1, 62.9, 53.7, 44.6, ---, 53.6, 51.2,
46.7, 44.8, 44.7,----,
   78,2021/02/09 14:16:16,00d 00:00:30.0, 52.5, 67.3, 56.2, 47.3, -.-, 56.2, 55.5,
51.5, 48.2, 47.6,---,
   79,2021/02/09 14:16:46,00d 00:00:30.0, 50.8, 65.6, 54.2, 47.4, ---, 53.7, 52.6,
50.7, 48.2, 47.2,----,
   80,2021/02/09 14:17:16,00d 00:00:30.0, 47.3, 62.1, 49.4, 45.3, ---, 49.7, 49.5,
47.2, 45.5, 44.8,----,
   81,2021/02/09 14:17:46,00d 00:00:30.0, 46.2, 61.0, 48.8, 44.1, ---, 48.8, 48.7,
45.8, 44.5, 44.0,----,
   82,2021/02/09 14:18:16,00d 00:00:30.0, 47.1, 61.9, 50.3, 45.6, -.-, 50.1, 49.7,
46.8, 45.7, 45.6,---,-
   83,2021/02/09 14:18:46,00d 00:00:30.0, 48.7, 63.5, 51.6, 45.8, -.-, 51.3, 51.1,
48.0, 46.0, 45.3,----,
   84,2021/02/09 14:19:16,00d 00:00:30.0, 53.5, 68.3, 59.4, 45.9, -.-, 58.4, 58.3,
50.7, 47.1, 46.3,----,
   85,2021/02/09 14:19:46,00d 00:00:30.0, 53.3, 68.1, 56.5, 50.0, -.-, 56.0, 55.8,
53.3, 49.8, 49.0,----,
   86,2021/02/09 14:20:16,00d 00:00:30.0, 49.0, 63.8, 52.2, 46.2, ---, 52.0, 51.5,
48.2, 46.0, 45.7,----,
   87,2021/02/09 14:20:46,00d 00:00:30.0, 48.4, 63.2, 54.5, 45.0, -.-, 53.5, 50.7,
46.9, 45.5, 44.8,----,
   88,2021/02/09 14:21:16,00d 00:00:30.0, 45.4, 60.2, 49.9, 43.7, -.-, 47.9, 47.9,
44.6, 43.9, 43.7,----,
   89,2021/02/09 14:21:46,00d 00:00:30.0, 53.7, 68.5, 62.0, 44.2, ---, 60.2, 59.2,
49.8, 44.7, 44.1,----,
   90,2021/02/09 14:22:16,00d 00:00:30.0, 48.3, 63.1, 51.3, 45.3, -.-, 50.8, 50.3,
47.7, 46.5, 45.8,----,
   91,2021/02/09 14:22:46,00d 00:00:30.0, 49.4, 64.2, 52.0, 46.5, -.-, 52.2, 51.9,
48.9, 47.4, 46.5,----,
   92,2021/02/09 14:23:16,00d 00:00:30.0, 50.5, 65.3, 52.4, 48.7, ---, 52.8, 52.7,
50.0, 49.1, 48.6,----,
   93,2021/02/09 14:23:46,00d 00:00:30.0, 48.8, 63.6, 52.1, 46.4, ---, 51.0, 51.0,
48.6, 46.3, 46.3,----,
   94,2021/02/09 14:24:16,00d 00:00:30.0, 46.4, 61.2, 48.6, 44.8, ---, 48.6, 48.3,
46.1, 45.1, 45.0,----,
   95,2021/02/09 14:24:46,00d 00:00:30.0, 46.0, 60.8, 48.1, 43.9, -.-, 48.0, 47.6,
45.5, 44.4, 44.0,----,
   96,2021/02/09 14:25:16,00d 00:00:30.0, 47.7, 62.5, 49.7, 45.6, ---, 49.8, 49.7,
47.4, 46.2, 45.7,----,
   97,2021/02/09 14:25:46,00d 00:00:30.0, 47.3, 62.1, 49.3, 45.5, -.-, 49.1, 48.8,
47.1, 45.7, 45.5,----,
   98,2021/02/09 14:26:16,00d 00:00:30.0, 51.3, 66.1, 56.4, 47.0, -.-, 54.7, 54.5,
50.3, 48.7, 48.4,----,
   99,2021/02/09 14:26:46,00d 00:00:30.0, 52.6, 67.4, 54.9, 50.7, -.-, 54.5, 54.1,
52.4, 51.2, 50.6,----,
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100,2021/02/09 14:27:16,00d 00:00:30.0, 48.7, 63.5, 51.5, 47.1, -.-, 50.4, 50.0,
48.3, 47.3, 46.9,----,
  101,2021/02/09 14:27:46,00d 00:00:30.0, 46.8, 61.6, 48.6, 45.7, -.-, 48.4, 48.3,
46.4, 45.8, 45.8,---,---,
  102,2021/02/09 14:28:16,00d 00:00:30.0, 47.3, 62.1, 50.6, 45.3, -.-, 50.3, 49.7,
46.8, 45.5, 45.5, ----,
  103,2021/02/09 14:28:46,00d 00:00:30.0, 45.0, 59.8, 45.8, 44.5, -.-, 45.5, 45.4,
45.1, 44.8, 44.5,----,
  104,2021/02/09 14:29:16,00d 00:00:30.0, 44.5, 59.3, 45.8, 43.2, -.-, 45.6, 45.6,
44.4, 43.5, 43.4,----,
  105,2021/02/09 14:29:46,00d 00:00:30.0, 43.9, 58.7, 45.0, 42.8, -.-, 44.9, 44.6,
43.9, 43.1, 43.0,----,
  106,2021/02/09 14:30:16,00d 00:00:30.0, 44.2, 59.0, 45.6, 43.1, ---, 45.1, 44.9,
44.2, 43.7, 43.4,----,
  107,2021/02/09 14:30:46,00d 00:00:30.0, 42.9, 57.7, 43.6, 42.3, -.-, 43.4, 43.4,
43.0, 42.4, 42.4,---,
  108,2021/02/09 14:31:16,00d 00:00:30.0, 43.7, 58.5, 44.6, 42.8, -.-, 44.6, 44.4,
43.7, 43.0, 42.8,----,
  109,2021/02/09 14:31:46,00d 00:00:30.0, 46.4, 61.2, 49.8, 43.9, -.-, 49.2, 49.0,
45.8, 44.3, 44.2,---,---,
  110,2021/02/09 14:32:16,00d 00:00:30.0, 44.7, 59.5, 47.5, 43.2, -.-, 46.5, 45.9,
44.5, 43.5, 43.2,----,
  111,2021/02/09 14:32:46,00d 00:00:30.0, 43.2, 58.0, 44.2, 42.6, -.-, 44.3, 43.9,
43.1, 42.8, 42.7,----,
  112,2021/02/09 14:33:16,00d 00:00:30.0, 43.7, 58.5, 44.5, 43.0, -.-, 44.4, 44.4,
43.8, 43.2, 43.0,----,
  113,2021/02/09 14:33:46,00d 00:00:30.0, 43.6, 58.4, 44.3, 42.8, -.-, 44.3, 44.1,
43.6, 43.1, 42.9,----,
  114,2021/02/09 14:34:16,00d 00:00:30.0, 44.7, 59.5, 47.1, 43.2, -.-, 46.6, 46.6,
44.3, 43.5, 43.4,----,
  115,2021/02/09 14:34:46,00d 00:00:30.0, 43.2, 58.0, 43.9, 42.6, -.-, 43.9, 43.8,
43.2, 42.9, 42.8,---,---,
  116,2021/02/09 14:35:16,00d 00:00:30.0, 43.5, 58.3, 44.2, 42.8, -.-, 44.3, 44.0,
43.6, 42.9, 42.9, ----,
  117,2021/02/09 14:35:46,00d 00:00:30.0, 44.4, 59.2, 47.5, 43.6, ---, 45.0, 45.0,
44.2, 43.7, 43.7,----,
  118,2021/02/09 14:36:16,00d 00:00:30.0, 46.5, 61.3, 47.9, 44.9, -.-, 47.9, 47.9,
46.3, 45.5, 45.2,----,
  119,2021/02/09 14:36:46,00d 00:00:30.0, 47.4, 62.2, 51.2, 45.5, -.-, 51.1, 50.2,
46.5, 45.8, 45.5,----,
  120,2021/02/09 14:37:16,00d 00:00:30.0, 46.7, 61.5, 48.8, 45.5, -.-, 48.2, 48.0,
46.5, 45.6, 45.6,----,
  121,2021/02/09 14:37:46,00d 00:00:30.0, 45.9, 60.7, 47.2, 44.5, ---, 47.2, 47.1,
45.6, 44.9, 44.5,----,
  122,2021/02/09 14:38:16,00d 00:00:30.0, 45.3, 60.1, 46.5, 44.2, -.-, 46.6, 46.3,
45.3, 44.5, 44.2,----,
  123,2021/02/09 14:38:46,00d 00:00:30.0, 47.1, 61.9, 48.4, 45.2, -.-, 48.2, 48.2,
47.1, 46.0, 45.3,----,
  124,2021/02/09 14:39:16,00d 00:00:30.0, 46.7, 61.5, 47.9, 46.0, -.-, 47.5, 47.4,
46.6, 46.1, 45.9,----,
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125,2021/02/09 14:39:46,00d 00:00:30.0, 46.5, 61.3, 47.4, 45.4, -.-, 47.3, 47.2,
46.7, 45.5, 45.4,----,
  126,2021/02/09 14:40:16,00d 00:00:30.0, 47.4, 62.2, 50.6, 45.2, -.-, 50.2, 49.4,
47.2, 45.5, 45.1,----,
  127,2021/02/09 14:40:46,00d 00:00:30.0, 44.5, 59.3, 46.1, 43.6, -.-, 45.8, 45.4,
44.4, 43.8, 43.6,----,
  128,2021/02/09 14:41:16,00d 00:00:30.0, 45.0, 59.8, 45.8, 43.9, -.-, 45.9, 45.8,
45.0, 44.3, 44.1,----,
  129,2021/02/09 14:41:46,00d 00:00:30.0, 44.5, 59.3, 45.8, 43.0, -.-, 45.5, 45.4,
44.5, 43.2, 43.1,----,
  130,2021/02/09 14:42:16,00d 00:00:30.0, 45.6, 60.4, 46.7, 44.9, -.-, 46.9, 46.2,
45.6, 45.0, 45.0, ----,
  131,2021/02/09 14:42:46,00d 00:00:30.0, 44.7, 59.5, 47.5, 43.7, -.-, 46.8, 46.3,
44.5, 44.0, 43.8,----,
  132,2021/02/09 14:43:16,00d 00:00:30.0, 45.0, 59.8, 47.6, 43.5, -.-, 47.2, 47.2,
44.8, 43.9, 43.6,---,
  133,2021/02/09 14:43:46,00d 00:00:30.0, 49.6, 64.4, 53.7, 44.8, -.-, 52.9, 52.8,
47.2, 45.2, 44.9,----,
  134,2021/02/09 14:44:16,00d 00:00:30.0, 52.5, 67.3, 54.3, 49.3, -.-, 54.1, 54.0,
52.8, 51.0, 50.1,----,
  135,2021/02/09 14:44:46,00d 00:00:30.0, 49.0, 63.8, 52.9, 44.2, -.-, 52.1, 51.9,
49.1, 44.6, 44.3,----,
  136,2021/02/09 14:45:16,00d 00:00:30.0, 47.4, 62.2, 52.3, 44.2, -.-, 52.0, 51.8,
45.3, 44.6, 44.5,----,
  137,2021/02/09 14:45:46,00d 00:00:30.0, 45.7, 60.5, 46.8, 44.9, -.-, 46.7, 46.6,
45.8, 45.0, 44.9,---,
  138,2021/02/09 14:46:16,00d 00:00:30.0, 45.3, 60.1, 47.1, 44.1, -.-, 46.9, 46.9,
45.2, 44.3, 44.2,---,
  139,2021/02/09 14:46:46,00d 00:00:30.0, 45.3, 60.1, 46.7, 44.1, ---, 46.7, 46.5,
45.2, 44.6, 44.5,----,
  140,2021/02/09 14:47:16,00d 00:00:30.0, 46.4, 61.2, 48.6, 45.5, -.-, 48.4, 47.3,
46.1, 45.6, 45.5,----,
  141,2021/02/09 14:47:46,00d 00:00:30.0, 44.5, 59.3, 45.7, 43.7, -.-, 45.2, 45.2,
44.6, 44.0, 43.9,----,
  142,2021/02/09 14:48:16,00d 00:00:30.0, 44.4, 59.2, 45.4, 43.5, ---, 45.5, 45.3,
44.3, 43.7, 43.4,----,
  143,2021/02/09 14:48:46,00d 00:00:30.0, 45.1, 59.9, 47.4, 43.7, -.-, 47.5, 46.3,
44.8, 44.0, 43.8,----,
  144,2021/02/09 14:49:16,00d 00:00:30.0, 46.3, 61.1, 48.7, 45.0, -.-, 48.4, 48.2,
45.9, 45.6, 44.9,---,
  145,2021/02/09 14:49:46,00d 00:00:30.0, 43.9, 58.7, 45.0, 43.2, -.-, 44.6, 44.5,
43.9, 43.4, 43.3,----,
  146,2021/02/09 14:50:16,00d 00:00:30.0, 44.9, 59.7, 46.0, 43.8, ---, 45.9, 45.8,
45.0, 44.1, 44.1,----,
  147,2021/02/09 14:50:46,00d 00:00:30.0, 45.6, 60.4, 49.1, 43.9, -.-, 48.6, 48.1,
45.2, 44.1, 43.9,----,
  148,2021/02/09 14:51:16,00d 00:00:30.0, 45.5, 60.3, 46.7, 44.8, -.-, 46.8, 46.4,
45.4, 44.9, 44.8,---,--,
  149,2021/02/09 14:51:46,00d 00:00:30.0, 45.2, 60.0, 47.0, 44.3, -.-, 46.5, 46.4,
45.3, 44.5, 44.4,----,
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150,2021/02/09 14:52:16,00d 00:00:30.0, 44.8, 59.6, 45.3, 44.2, -.-, 45.3, 45.2,
44.8, 44.3, 44.2,----,
  151,2021/02/09 14:52:46,00d 00:00:30.0, 46.2, 61.0, 47.6, 44.5, -.-, 47.7, 47.6,
46.0, 44.8, 44.6,----,
  152,2021/02/09 14:53:16,00d 00:00:30.0, 46.3, 61.1, 48.5, 45.5, -.-, 47.5, 47.3,
46.2, 45.7, 45.6,----,
  153,2021/02/09 14:53:46,00d 00:00:30.0, 46.6, 61.4, 47.9, 44.3, -.-, 48.0, 47.8,
46.7, 45.5, 44.2,---,---,
  154,2021/02/09 14:54:16,00d 00:00:30.0, 45.7, 60.5, 47.0, 44.2, -.-, 46.7, 46.5,
45.7, 44.9, 44.6,----,
  155,2021/02/09 14:54:46,00d 00:00:30.0, 46.2, 61.0, 48.4, 44.7, ---, 47.9, 47.4,
45.9, 45.0, 44.7,---,
  156,2021/02/09 14:55:16,00d 00:00:30.0, 44.8, 59.6, 45.8, 43.8, ---, 45.7, 45.6,
45.0, 43.9, 43.9,----,
  157,2021/02/09 14:55:46,00d 00:00:30.0, 44.5, 59.3, 45.8, 43.3, -.-, 45.5, 45.4,
44.6, 43.4, 43.3,---,
  158,2021/02/09 14:56:16,00d 00:00:30.0, 44.5, 59.3, 48.4, 42.6, -.-, 48.2, 47.5,
43.7, 42.7, 42.6,----,
  159,2021/02/09 14:56:46,00d 00:00:30.0, 42.8, 57.6, 47.1, 41.4, -.-, 46.6, 45.1,
42.1, 41.7, 41.6,----,
  160,2021/02/09 14:57:16,00d 00:00:30.0, 43.5, 58.3, 45.8, 42.0, -.-, 45.7, 45.4,
43.3, 42.6, 42.4,----,
  161,2021/02/09 14:57:46,00d 00:00:30.0, 44.9, 59.7, 48.6, 42.4, -.-, 48.5, 48.0,
43.7, 42.8, 42.6,---,-
  162,2021/02/09 14:58:16,00d 00:00:30.0, 42.8, 57.6, 44.2, 41.9, -.-, 43.9, 43.6,
42.9, 42.1, 41.9,----,
  163,2021/02/09 14:58:46,00d 00:00:30.0, 43.7, 58.5, 45.8, 42.3, ---, 45.5, 45.5,
43.7, 42.6, 42.5,----,
  164,2021/02/09 14:59:16,00d 00:00:30.0, 43.7, 58.5, 45.4, 42.4, ---, 45.1, 45.0,
43.7, 42.6, 42.5,----,
  165,2021/02/09 14:59:46,00d 00:00:30.0, 45.4, 60.2, 48.5, 43.2, -.-, 48.3, 47.7,
44.6, 43.3, 43.1,----,
  166,2021/02/09 15:00:16,00d 00:00:30.0, 45.6, 60.4, 50.1, 43.4, -.-, 48.8, 48.6,
44.9, 43.6, 43.5,----,
  167,2021/02/09 15:00:46,00d 00:00:16.3, 44.7, 56.8, 45.9, 43.4, ---, 45.7, 45.7,
44.8, 43.4, 43.3,----,
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FilenameM04 Test Location3601 Secret Grove Court Employee NameAJD, EJA Employee Number DepartmentENV VDOT Van Buren Road Exten sion 20 minute short-term traffic noise measuremen ts Calibrator TypeMetrosonics CL304 SN4480
Calibrator Cal. Date2020-06-02 ***********************************
METROSONICS db-3080 V1.12 SERIAL # 3895 REPORT PRINTED ON 02/11/21 at 15:44:18 User ID:
LOGGING STARTED02/09/21 at 13:31:00 TOTAL LOGGING TIME0 DAYS 01:08:21 LOGGING STOPPED02/09/21 at 14:39:21 TOTAL INTERVALS137 INTERVAL LENGTH00:00:30
AUTO STOPNO CLOCK SYNCHYES RESPONSE RATESLOW FILTERA WT.
PRE-TEST CALIBRATION TIME02/09/21 AT 10:26:40 PRE-TEST CALIBRATION RANGE39.1 TO 139.1 dB POST-TEST CALIBRATION TIME02/10/21 AT 04:11:42 POST-TEST CALIBRATION RANGE39.1 TO 139.1 CUTOFF USED FOR TIME HISTORY LavNONE
<>< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>
EXCHANGE RATE3dB CUTOFFS80dB 90dB CEILING115dB DOSE CRITERION LEVEL 90dB DOSE CRITERION LENGTH 8 HOURS

Lav Lav (80) Lav (90) SEL	52.3dB 39.1dB 39.1dB 88.3dB
TWA TWA (80) TWA (90)	
LmaxU LpkU TIME OVER 115dB.	
DOSE (80) PROJ. DOSE (80) DOSE (90) PROJ. DOSE (90)	0.00% 0.00%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

TIME	Lav	Lmax	Lpk	L(10.0)	L(99.9)
	dBA	dBA	dBC	dBA	dBA
02/09/21					
13:31:00	55.2	56.8	UNDER	56.1	53.1
13:31:30	54.0	56.8	UNDER	56.1	52.1
13:32:00	53.6	54.8	UNDER	54.1	53.1
13:32:30	53.1	53.6	UNDER	53.1	52.1
13:33:00	54.6	56.0	UNDER	56.1	52.1
13:33:30	53.0	54.0	UNDER	53.1	52.1
13:34:00	52.5	53.6	UNDER	53.1	51.1
13:34:30	53.1	54.4	UNDER	54.1	51.1
13:35:00	50.6	51.9	UNDER	51.1	49.1
13:35:30	51.8	53.2	UNDER	52.1	50.1
13:36:00	52.1	52.8	UNDER	52.1	51.1
13:36:30	53.0	58.0	UNDER	53.1	52.1
13:37:00	51.1	52.0	UNDER	51.1	50.1
13:37:30	51.2	52.4	UNDER	52.1	49.1
13:38:00	51.8	53.0	UNDER	52.1	51.1
13:38:30	53.4	55.6	UNDER	54.1	52.1
13:39:00	52.9	54.4	UNDER	54.1	50.1
13:39:30	51.4	52.8	UNDER	52.1	50.1
13:40:00	51.8	53.1	UNDER	52.1	50.1
13:40:30	51.2	51.9	UNDER	51.1	50.1
13:41:00	51.7	52.9	UNDER	52.1	50.1
13:41:30	51.4	52.2	UNDER	52.1	50.1
13:42:00	54.5	66.8	UNDER	52.1	50.1
13:42:30	51.9	57.2	UNDER	52.1	50.1
13:43:00	53.2	55.6	UNDER	54.1	51.1

13:44:00 51.6 53.0 UNDER 52.1 50. 13:44:30 51.2 52.0 UNDER 51.1 50. 13:45:00 52.0 58.4 UNDER 52.1 50. 13:45:30 51.2 53.6 UNDER 52.1 49. 13:46:00 51.9 53.0 UNDER 52.1 50. 13:47:00 52.7 53.6 UNDER 52.1 50. 13:47:00 52.7 53.6 UNDER 53.1 52. 13:47:30 52.8 54.1 UNDER 53.1 52. 13:48:00 54.3 57.2 UNDER 56.1 51. 13:49:00 51.8 54.0 UNDER 52.1 50. 13:49:30 53.3 54.4 UNDER 52.1 50. 13:50:30 51.6 52.5 UNDER 52.1 50. 13:51:00 51.7 52.8 UNDER 52.1 50. 13:52:30	13:44:00 51.6 53.0 UNDER 52.1 50.1 13:44:30 51.2 52.0 UNDER 51.1 50.1 13:45:00 52.0 58.4 UNDER 52.1 59.1 13:45:30 51.2 53.6 UNDER 52.1 59.1 13:46:30 52.3 52.8 UNDER 52.1 50.1 13:47:30 52.8 54.1 UNDER 53.1 52.1 13:48:30 51.6 54.8 UNDER 53.1 52.1 13:48:30 51.6 54.8 UNDER 53.1 52.1 13:49:30 51.8 54.0 UNDER 53.1 49.1 13:49:30 51.6 54.8 UNDER 53.1 49.1 13:50:00 51.4 53.2 UNDER 52.1 50.1 13:51:30 51.6 52.5 UNDER 52.1 50.1 13:51:30 51.2 52.5 UNDER 52.1 50.1 13:52:30 51.6 52.5 UNDER 51.1 50.1 <td< th=""><th></th></td<>	
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13:57:00 52.4 55.6 UNDER 53.1 51.1 13:57:30 52.8 53.5 UNDER 53.1 52.1 13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.2 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 50.1 49.1 14:03:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:04:00 49.4 50.4 UNDER 50.1 48.1 <td< td=""><td>13:57:00 52.4 55.6 UNDER 53.1 51.1 13:57:30 52.8 53.5 UNDER 53.1 52.1 13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 50.1 49.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1 <td>13:56:00</td></td></td<>	13:57:00 52.4 55.6 UNDER 53.1 51.1 13:57:30 52.8 53.5 UNDER 53.1 52.1 13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 50.1 49.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1 <td>13:56:00</td>	13:56:00
13:57:30 52.8 53.5 UNDER 53.1 52.1 13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:04:00 49.4 50.4 UNDER 50.1 48.1 14:04:30 49.7 50.9 UNDER 50.1 48.1 <td< td=""><td>13:57:30 52.8 53.5 UNDER 53.1 52.1 13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1</td><td>13:56:30</td></td<>	13:57:30 52.8 53.5 UNDER 53.1 52.1 13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	13:56:30
13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.2 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.2 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.2 14:02:30 50.0 51.1 UNDER 50.1 49.2 14:03:00 50.2 51.6 UNDER 50.1 49.2 14:04:00 49.4 50.4 UNDER 50.1 48.2 14:04:30 49.7 50.9 UNDER 50.1 48.2 14:05:00 50.8 51.8 UNDER 51.1 49.3 <td>13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1</td> <td>13:57:00</td>	13:58:00 52.6 53.6 UNDER 53.1 50.1 13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	13:57:00
13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.2 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.2 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.3 14:02:00 49.3 50.0 UNDER 49.1 48.3 14:02:30 50.0 51.1 UNDER 50.1 49.3 14:03:00 50.2 51.6 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 50.1 49.3 14:04:00 49.4 50.4 UNDER 50.1 48.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3 <td>13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1</td> <td>13:57:30</td>	13:58:30 51.0 52.5 UNDER 52.1 50.1 13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	13:57:30
13:59:00 53.0 54.4 UNDER 53.1 51.3 13:59:30 51.7 53.6 UNDER 52.1 50.3 14:00:00 51.6 53.2 UNDER 52.1 50.3 14:00:30 50.4 51.2 UNDER 50.1 49.3 14:01:00 51.3 57.2 UNDER 51.1 50.3 14:01:30 50.5 52.4 UNDER 51.1 48.3 14:02:00 49.3 50.0 UNDER 49.1 48.3 14:02:30 50.0 51.1 UNDER 50.1 49.3 14:03:00 50.2 51.6 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 50.1 49.3 14:04:00 49.4 50.4 UNDER 50.1 48.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3 <td>13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1</td> <td>13:58:00</td>	13:59:00 53.0 54.4 UNDER 53.1 51.1 13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	13:58:00
13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.2 14:00:30 50.4 51.2 UNDER 50.1 49.2 14:01:00 51.3 57.2 UNDER 51.1 50.2 14:01:30 50.5 52.4 UNDER 51.1 48.2 14:02:00 49.3 50.0 UNDER 49.1 48.2 14:02:30 50.0 51.1 UNDER 50.1 49.2 14:03:00 50.2 51.6 UNDER 50.1 49.2 14:04:00 49.4 50.4 UNDER 50.1 48.2 14:04:30 49.7 50.9 UNDER 50.1 48.2 14:05:00 50.8 51.8 UNDER 51.1 49.2	13:59:30 51.7 53.6 UNDER 52.1 50.1 14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	13:58:30
14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.2 14:01:00 51.3 57.2 UNDER 51.1 50.2 14:01:30 50.5 52.4 UNDER 51.1 48.2 14:02:00 49.3 50.0 UNDER 49.1 48.2 14:02:30 50.0 51.1 UNDER 50.1 49.2 14:03:00 50.2 51.6 UNDER 50.1 49.2 14:03:30 50.6 51.6 UNDER 51.1 49.2 14:04:00 49.4 50.4 UNDER 50.1 48.2 14:04:30 49.7 50.9 UNDER 50.1 48.2 14:05:00 50.8 51.8 UNDER 51.1 49.2	14:00:00 51.6 53.2 UNDER 52.1 50.1 14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	13:59:00
14:00:30 50.4 51.2 UNDER 50.1 49.3 14:01:30 50.5 52.4 UNDER 51.1 48.3 14:02:00 49.3 50.0 UNDER 49.1 48.3 14:02:30 50.0 51.1 UNDER 50.1 49.3 14:03:30 50.0 51.1 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 50.1 49.3 14:04:00 49.4 50.4 UNDER 51.1 49.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3	14:00:30 50.4 51.2 UNDER 50.1 49.1 14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	13:59:30
14:01:00 51.3 57.2 UNDER 51.1 50.5 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.2 14:02:30 50.0 51.1 UNDER 50.1 49.2 14:03:00 50.2 51.6 UNDER 50.1 49.2 14:03:30 50.6 51.6 UNDER 51.1 49.2 14:04:00 49.4 50.4 UNDER 50.1 48.2 14:04:30 49.7 50.9 UNDER 50.1 48.2 14:05:00 50.8 51.8 UNDER 51.1 49.2	14:01:00 51.3 57.2 UNDER 51.1 50.1 14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	14:00:00
14:01:30 50.5 52.4 UNDER 51.1 48.3 14:02:00 49.3 50.0 UNDER 49.1 48.3 14:02:30 50.0 51.1 UNDER 50.1 49.3 14:03:00 50.2 51.6 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 51.1 49.3 14:04:00 49.4 50.4 UNDER 50.1 48.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3	14:01:30 50.5 52.4 UNDER 51.1 48.1 14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	14:00:30
14:02:00 49.3 50.0 UNDER 49.1 48.3 14:02:30 50.0 51.1 UNDER 50.1 49.3 14:03:00 50.2 51.6 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 51.1 49.3 14:04:00 49.4 50.4 UNDER 50.1 48.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3	14:02:00 49.3 50.0 UNDER 49.1 48.1 14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	14:01:00
14:02:30 50.0 51.1 UNDER 50.1 49.3 14:03:00 50.2 51.6 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 51.1 49.3 14:04:00 49.4 50.4 UNDER 50.1 48.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3	14:02:30 50.0 51.1 UNDER 50.1 49.1 14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	14:01:30
14:03:00 50.2 51.6 UNDER 50.1 49.3 14:03:30 50.6 51.6 UNDER 51.1 49.3 14:04:00 49.4 50.4 UNDER 50.1 48.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3	14:03:00 50.2 51.6 UNDER 50.1 49.1 14:03:30 50.6 51.6 UNDER 51.1 49.1	14:02:00
14:03:30 50.6 51.6 UNDER 51.1 49.2 14:04:00 49.4 50.4 UNDER 50.1 48.2 14:04:30 49.7 50.9 UNDER 50.1 48.2 14:05:00 50.8 51.8 UNDER 51.1 49.2	14:03:30 50.6 51.6 UNDER 51.1 49.1	14:02:30
14:04:00 49.4 50.4 UNDER 50.1 48.3 14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3		
14:04:30 49.7 50.9 UNDER 50.1 48.3 14:05:00 50.8 51.8 UNDER 51.1 49.3	.4:04:00 49.4 50.4 UNDER 50.1 48.1	14:03:30
14:05:00 50.8 51.8 UNDER 51.1 49.3		14:04:00
	L4:04:30 49.7 50.9 UNDER 50.1 48.1	14:04:30
14:05:30 51.0 54.4 UNDER 52.1 49.3		14:05:00
14.00.00 E1 2 E2 0 UNDED E2 1 40 9	L4:08:00 51.2 52.8 UNDER 52.1 49.1	14:08:00
TOTAL CONTROL OF THE LOCAL CON	עני 1.1.2 לוטא: UNDER 52.1 49.1 ביטא 1.4	14:08:00

14:08:30	50.7	52.5	UNDER	51.1	49.1
14:09:00	51.4	52.4	UNDER	52.1	50.1
14:09:30	51.8	54.0	UNDER	53.1	50.1
14:10:00	50.9	54.4	UNDER	51.1	49.1
14:10:30	52.7	56.0	UNDER	53.1	51.1
14:11:00	51.4	53.1	UNDER	52.1	50.1
14:11:30	51.1	53.2	UNDER	52.1	49.1
14:12:00	52.7	54.6	UNDER	54.1	50.1
14:12:30	52.8	54.8	UNDER	53.1	50.1
14:13:00	53.2	54.8	UNDER	54.1	52.1
14:13:30	52.5	54.8	UNDER	54.1	50.1
14:14:00	52.0	57.2	UNDER	53.1	50.1
14:14:30	51.5	57.2	UNDER	52.1	49.1
14:15:00	49.6	51.0	UNDER	50.1	48.1
14:15:30	53.2	57.6	UNDER	54.1	50.1
14:15:30	53.2	54.8	UNDER	54.1	51.1
14:16:30	52.6				
		54.4	UNDER	53.1	51.1
14:17:00	51.7	53.2	UNDER	52.1	50.1
14:17:30	51.8	53.6	UNDER	53.1	50.1
14:18:00	51.5	52.3	UNDER	52.1	50.1
14:18:30	52.3	54.0	UNDER	53.1	50.1
14:19:00	54.3	56.8	UNDER	55.1	52.1
14:19:30	52.8	53.6	UNDER	53.1	52.1
14:20:00	52.8	54.4	UNDER	54.1	50.1
14:20:30	50.7	52.0	UNDER	51.1	49.1
14:21:00	51.2	52.2	UNDER	52.1	49.1
14:21:30	49.9	51.2	UNDER	50.1	49.1
14:22:00	53.0	56.4	UNDER	55.1	50.1
14:22:30	54.0	55.6	UNDER	54.1	51.1
14:23:00	52.0	54.0	UNDER	53.1	50.1
14:23:30	50.0	52.0	UNDER	50.1	48.1
14:24:00	51.1	53.1	UNDER	52.1	49.1
14:24:30	50.4	51.6	UNDER	51.1	49.1
14:25:00	51.4	53.1	UNDER	52.1	50.1
14:25:30	52.2	55.2	UNDER	54.1	49.1
14:26:00	53.9	57.6	UNDER	56.1	51.1
14:26:30	51.7	54.1	UNDER	52.1	50.1
14:27:00	51.3	53.4	UNDER	52.1	49.1
14:27:30	50.8	52.8	UNDER	51.1	49.1
14:28:00	49.8	50.4	UNDER	50.1	49.1
14:28:30	51.2	57.4	UNDER	52.1	49.1
14:29:00	52.1	53.4	UNDER	53.1	50.1
14:29:30	51.3	54.8	UNDER	52.1	49.1
14:30:00	51.0	52.0	UNDER	51.1	50.1
14:30:30	50.6	51.6	UNDER	51.1	49.1
14:31:00	53.0	54.4	UNDER	54.1	51.1
14:31:30	52.7	53.6	UNDER	53.1	51.1
14:31:30	52.9	54.0	UNDER	53.1	51.1
14:32:30	52.4	55.6	UNDER	54.1	50.1
14:32:30	53.7	57.3	UNDER	54.1	52.1
14.55.66	J3.1	37.3	UNDER	J4•±	J Z • I

14:33:30	52.0	53.2	UNDER	53.1	50.1
14:34:00	51.6	52.2	UNDER	52.1	51.1
14:34:30	51.5	53.0	UNDER	52.1	50.1
14:35:00	52.2	53.6	UNDER	53.1	50.1
14:35:30	51.5	52.4	UNDER	52.1	50.1
14:36:00	51.5	52.4	UNDER	52.1	50.1
14:36:30	52.1	52.9	UNDER	52.1	51.1
14:37:00	51.7	52.8	UNDER	52.1	50.1
14:37:30	51.7	53.6	UNDER	52.1	50.1
14:38:00	51.8	52.8	UNDER	52.1	50.1
14:38:30	51.6	52.4	UNDER	52.1	50.1
14:39:00	63.2	76.0	UNDER	67.1	50.1

Calibrator TypeMetrosonics CL304 SN4480 Calibrator Cal. Date2020-06-02 ************************************
METROSONICS db-3080 V1.12 SERIAL # 3897 REPORT PRINTED ON 02/11/21 at 15:44:24
User ID:
LOGGING STARTED02/09/21 at 11:20:00 TOTAL LOGGING TIME1 DAY 00:43:09 LOGGING STOPPED02/10/21 at 12:03:09 TOTAL INTERVALS297 INTERVAL LENGTH00:05:00
AUTO STOPNO CLOCK SYNCHYES RESPONSE RATESLOW FILTERA WT.
PRE-TEST CALIBRATION TIME02/09/21 AT 10:24:46 PRE-TEST CALIBRATION RANGE39.3 TO 139.3 dB POST-TEST CALIBRATION TIME02/11/21 AT 15:13:46 POST-TEST CALIBRATION RANGE39.3 TO 139.3 CUTOFF USED FOR TIME HISTORY LavNONE
<>< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>
EXCHANGE RATE3dB CUTOFFS80dB 90dB CEILING115dB DOSE CRITERION LEVEL 90dB DOSE CRITERION LENGTH 8 HOURS

Lav Lav (80) Lav (90) SEL	49.4dB 47.1dB		
TWA TWA (80) TWA (90)	64.6dB 54.3dB 52.0dB		
Lmax Lpk TIME OVER 115dB	124.1dB	02/09/21	
DOSE (80) DOSE (90)		02% 01%	

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

TIME	Lav	Lmax	Lpk	L(10.0)	L(99.9)
	dBA	dBA	dBC	dBA	dBA
02/09/21					
11:20:00	72.3	93.8	115.6	63.3	58.3
11:25:00	60.3	63.2	UNDER	61.3	57.3
11:30:00	60.3	64.6	UNDER	61.3	53.3
11:35:00	60.4	63.8	UNDER	61.3	57.3
11:40:00	60.4	63.4	UNDER	62.3	56.3
11:45:00	60.7	64.2	UNDER	61.3	58.3
11:50:00	60.5	63.2	UNDER	61.3	57.3
11:55:00	61.0	67.8	UNDER	62.3	57.3
12:00:00	60.7	66.0	UNDER	61.3	56.3
12:05:00	61.6	68.1	UNDER	62.3	56.3
12:10:00	59.8	63.9	UNDER	61.3	56.3
12:15:00	58.7	61.4	UNDER	60.3	55.3
12:20:00	59.5	65.8	UNDER	60.3	57.3
12:25:00	59.5	62.0	UNDER	60.3	56.3
12:30:00	60.0	62.5	UNDER	61.3	57.3
12:35:00	60.0	65.0	UNDER	61.3	56.3
12:40:00	60.1	67.0	UNDER	61.3	55.3
12:45:00	60.4	64.0	UNDER	61.3	56.3
12:50:00	60.4	65.4	UNDER	61.3	57.3
12:55:00	60.1	63.4	UNDER	61.3	57.3
13:00:00	59.9	62.6	UNDER	61.3	55.3
13:05:00	60.8	63.0	UNDER	62.3	58.3
13:10:00	60.7	63.0	UNDER	61.3	58.3
13:15:00	59.9	61.9	UNDER	61.3	57.3
13:20:00	60.0	62.4	UNDER	61.3	56.3
13:25:00	60.6	66.2	UNDER	61.3	56.3
13:30:00	60.9	63.8	UNDER	62.3	56.3

13:35:00	59.9	63.0	UNDER	61.3	56.3
13:40:00	60.3	62.6	UNDER	61.3	58.3
13:45:00	59.9	62.7	UNDER	61.3	57.3
13:50:00	59.1	68.2	UNDER	60.3	55.3
13:55:00	58.7	61.0	UNDER	59.3	56.3
14:00:00	58.9	61.2	UNDER	60.3	56.3
14:05:00	59.2	66.6	UNDER	60.3	56.3
14:10:00	59.1	61.2	UNDER	60.3	56.3
14:15:00	59.7	67.1	UNDER	60.3	56.3
14:20:00	58.9	62.2	UNDER	60.3	55.3
14:25:00	59.2	62.3	UNDER	60.3	56.3
14:30:00	59.0	62.2	UNDER	60.3	57.3
14:35:00	58.7	62.6	UNDER	59.3	56.3
14:40:00	58.8	61.4	UNDER	59.3	55.3
14:45:00	59.5	62.6	UNDER	60.3	56.3
14:50:00	59.4	63.0	UNDER	60.3	57.3
14:55:00	59.3	66.2	UNDER	60.3	55.3
15:00:00	59.3	65.4	UNDER	60.3	53.3
15:05:00	59.5	64.2	UNDER	60.3	55.3
15:10:00	59.8	63.4	UNDER	60.3	57.3
15:15:00	59.8	64.2	UNDER	60.3	58.3
15:20:00	59.7	62.7	UNDER	61.3	55.3
15:25:00	60.1	65.4	UNDER	61.3	57.3
15:30:00	59.6	62.6	UNDER	60.3	56.3
			UNDER		
15:35:00	60.0	67.8		60.3	57.3
15:40:00	59.9	65.3	UNDER	61.3	56.3
15:45:00	59.7	62.9	UNDER	60.3	57.3
15:50:00	59.3	61.8	UNDER	60.3	56.3
15:55:00	59.5	62.3	UNDER	60.3	57.3
16:00:00	59.4	61.8	UNDER	60.3	57.3
16:05:00	59.9	62.6	UNDER	61.3	57.3
16:10:00	60.5	70.6	UNDER	62.3	55.3
16:15:00	68.5	91.4	124.1	68.3	57.3
16:20:00	59.8	66.2	UNDER	61.3	57.3
16:25:00	60.1	67.4	UNDER	61.3	57.3
16:30:00	59.9	63.7	UNDER	61.3	57.3
16:35:00	60.4	69.0	UNDER	61.3	56.3
16:40:00	60.9	65.1	UNDER	62.3	58.3
16:45:00	62.0	75.8	UNDER	62.3	57.3
16:50:00	60.3	64.6	UNDER	61.3	57.3
16:55:00	61.7	69.4	UNDER	63.3	59.3
17:00:00	62.5	72.6	UNDER	64.3	59.3
17:05:00	62.2	71.0	UNDER	64.3	58.3
17:10:00	60.9	71.8	UNDER	61.3	57.3
17:15:00	60.6	62.6	UNDER	61.3	58.3
17:20:00	60.5	63.0	UNDER	61.3	59.3
17:25:00	60.2	66.1	UNDER	61.3	57.3
17:30:00	59.8	62.2	UNDER	60.3	57.3
17:35:00	58.6	68.6	UNDER	59.3	52.3
17:40:00	55.4	59.8	UNDER	57.3	52.3

17:45:00	58.6	65.4	UNDER	60.3	55.3
17:50:00	58.9	66.0	UNDER	60.3	57.3
17:55:00	58.4	64.6	UNDER	59.3	56.3
18:00:00	58.7	65.9	UNDER	59.3	56.3
18:05:00	59.1	63.4	UNDER	59.3	57.3
18:10:00	58.5	61.8	UNDER	59.3	56.3
18:15:00	58.7	61.3	UNDER	59.3	56.3
18:20:00	59.2	64.6	UNDER	60.3	55.3
18:25:00	59.3	63.0	UNDER	60.3	57.3
18:30:00	59.3	61.8	UNDER	60.3	57.3
18:35:00	59.3	68.6	UNDER	60.3	56.3
18:40:00	58.8	62.2	UNDER	59.3	56.3
18:45:00	59.3	61.4	UNDER	60.3	56.3
18:50:00	59.5	63.0	UNDER	60.3	57.3
18:55:00	59.7	64.7	UNDER	61.3	57.3
19:00:00	59.4	62.6	UNDER	60.3	55.3
19:05:00	59.6	65.4	UNDER	61.3	56.3
19:10:00	64.8	79.8	UNDER	61.3	53.3
19:15:00	58.7	75.4	UNDER	59.3	51.3
19:20:00	55.5	60.0	UNDER	57.3	51.3
19:25:00	55.4	63.4	UNDER	57.3	51.3
19:30:00	67.8	81.0	UNDER	69.3	53.3
19:35:00	55.3	61.4	UNDER	57.3	51.3
19:40:00	56.1	63.7	UNDER	57.3	53.3
19:45:00	55.6	57.9	UNDER	56.3	53.3
19:50:00	56.0	59.4	UNDER	57.3	52.3
19:55:00	58.6	64.6	UNDER	59.3	55.3
20:00:00	58.3	64.6	UNDER	60.3	55.3
20:05:00	58.9	62.6	UNDER	60.3	55.3
20:10:00	59.1	66.2	UNDER	60.3	54.3
20:15:00	58.2	61.8	UNDER	60.3	55.3
20:20:00	58.5	62.8	UNDER	60.3	54.3
20:25:00	58.6	63.0	UNDER	60.3	55.3
20:30:00	58.0	66.2	UNDER	59.3	53.3
20:35:00	58.0	65.0	UNDER	59.3	52.3
20:40:00	57.2	59.9	UNDER	58.3	51.3
20:45:00	57.7	61.6	UNDER	59.3	54.3
20:50:00	57.9	61.3	UNDER	59.3	53.3
20:55:00	57.6	63.4	UNDER	59.3	53.3
21:00:00	57.7	61.0	UNDER	59.3	51.3
21:05:00	58.3	67.0	UNDER	59.3	53.3
21:10:00	58.4	62.2	UNDER	59.3	54.3
21:15:00	57.4	61.2	UNDER	59.3	52.3
21:20:00	57.1	60.0	UNDER	58.3	53.3
21:25:00	57.8	61.4	UNDER	59.3	52.3
21:30:00	56.8	60.6	UNDER	58.3	52.3
21:35:00	58.2	62.2	UNDER	60.3	54.3
21:40:00	57.8	64.3	UNDER	59.3	53.3
21:45:00	57.6	61.8	UNDER	59.3	52.3
21:50:00	57.1	61.0	UNDER	59.3	53.3
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21:55:00	57.0	60.9	UNDER	58.3	51.3
22:00:00	57.4	64.4	UNDER	58.3	51.3
22:05:00	58.2	63.0	UNDER	59.3	54.3
22:10:00	57.2	63.9	UNDER	58.3	51.3
22:15:00	56.3	61.3	UNDER	58.3	52.3
22:20:00	56.5	59.7	UNDER	58.3	51.3
22:25:00	55.6	59.9	UNDER	57.3	49.3
22:30:00	55.8	65.0	UNDER	57.3	50.3
22:35:00	55.8	59.8	UNDER	57.3	51.3
22:40:00	56.2	59.6	UNDER	57.3	51.3
22:45:00	56.1	60.6	UNDER	57.3	51.3
22:50:00	55.6	62.8	UNDER	58.3	50.3
22:55:00	55.4	59.2	UNDER	57.3	49.3
23:00:00	56.4	63.0	UNDER	59.3	49.3
23:05:00	56.5	65.4	UNDER	58.3	48.3
23:10:00	56.3	60.2	UNDER	58.3	48.3
23:15:00	55.9	59.2	UNDER	58.3	48.3
23:20:00	55.8	60.2	UNDER	58.3	44.3
23:25:00	56.5	61.0	UNDER	58.3	48.3
23:30:00	56.5	60.5	UNDER	58.3	49.3
23:35:00	57.2	64.1	UNDER	59.3	51.3
23:40:00	57.0	62.4	UNDER	58.3	51.3
23:45:00	56.0	59.7	UNDER	58.3	50.3
23:50:00	55.0	60.2	UNDER	57.3	51.3
23:55:00	55.6	60.2	UNDER	58.3	50.3
00:00:00	55.2	58.8	UNDER	57.3	48.3
00:05:00	55.9	64.2	UNDER	58.3	47.3
00:10:00	56.2	61.8	UNDER	59.3	49.3
00:15:00	55.7	62.4	UNDER	57.3	47.3
00:20:00	55.6	60.1	UNDER	57.3	50.3
00:25:00	56.5	60.4	UNDER	59.3	50.3
00:30:00	58.8	76.9	UNDER	58.3	50.3
00:35:00	56.7	63.4	UNDER	58.3	50.3
00:40:00	56.9	61.8	UNDER	59.3	51.3
00:45:00	57.2	63.7	UNDER	59.3	47.3
00:50:00	56.6	60.0	UNDER	58.3	50.3
00:55:00	55.9	60.2	UNDER	58.3	49.3
01:00:00	55.4	59.2	UNDER	57.3	49.3
01:05:00	55.7	61.4	UNDER	58.3	44.3
01:10:00	56.1	61.0	UNDER	58.3	51.3
01:15:00	56.2	64.6	UNDER	58.3	50.3
01:20:00	56.4	61.0	UNDER	58.3	51.3
01:25:00	57.3	64.2	UNDER	60.3	47.3
01:30:00	55.8	63.8	UNDER	58.3	49.3
01:35:00	55.3	60.6	UNDER	57.3	47.3
01:40:00	54.3	65.0	UNDER	55.3	46.3
01:45:00	52.4	57.6	UNDER	55.3	43.3
01:50:00	53.0	58.2	UNDER	56.3	42.3
01:55:00	55.9	60.3	UNDER	58.3	47.3
02:00:00	54.7	58.8	UNDER	57.3	48.3

02:05:00	54.6	60.7	UNDER	58.3	46.3
02:10:00	55.1	61.4	UNDER	58.3	43.3
02:15:00	55.5	66.2	UNDER	58.3	44.3
02:20:00	56.0	61.6	UNDER	58.3	49.3
02:25:00	57.2	61.8	UNDER	59.3	50.3
02:30:00	56.5	61.6	UNDER	59.3	51.3
02:35:00	57 . 9	63.8	UNDER	60.3	50.3
02:40:00	58.3	62.1	UNDER	60.3	53.3
02:45:00	59.3	63.4	UNDER	61.3	54.3
02:50:00	60.3	65.4	UNDER	62.3	55.3
02:55:00	58.6	61.7	UNDER	61.3	51.3
03:00:00	59.5	62.6	UNDER	61.3	51.3
03:05:00	59.4	69.0	UNDER	61.3	54.3
03:10:00	59.0	64.3	UNDER	61.3	53.3
03:15:00	59.1	64.6	UNDER	61.3	52.3
03:13:00	59.7	65.0	UNDER	61.3	54.3
03:25:00	60.1	65.1	UNDER	62.3	54.3
03:30:00	61.0	66.6	UNDER	63.3	55.3
03:35:00	58.4	63.0	UNDER	61.3	51.3
	58.7	62.6	UNDER	60.3	54.3
03:40:00					
03:45:00	58.8	64.5	UNDER	60.3	51.3
03:50:00	59.7	65.4	UNDER	62.3	55.3
03:55:00	58.0	63.2	UNDER	60.3	52.3
04:00:00	58.1	63.8	UNDER	60.3	52.3
04:05:00	57.2	60.2	UNDER	59.3	50.3
04:10:00	58.9	66.2	UNDER	61.3	53.3
04:15:00	57.5	61.5	UNDER	59.3	52.3
04:20:00	58.8	63.1	UNDER	60.3	53.3
04:25:00	58.2	61.8	UNDER	60.3	54.3
04:30:00	57.7	63.0	UNDER	59.3	53.3
04:35:00	58.6	65.6	UNDER	60.3	53.3
04:40:00	59.2	63.1	UNDER	60.3	55.3
04:45:00	59.3	65.0	UNDER	61.3	54.3
04:50:00	57.8	61.5	UNDER	59.3	53.3
04:55:00	58.6	63.2	UNDER	60.3	52.3
05:00:00	58.3	61.4	UNDER	60.3	54.3
05:05:00	58.0	61.3	UNDER	59.3	54.3
05:10:00	58.3	63.0	UNDER	60.3	54.3
05:15:00	59.4	63.8	UNDER	60.3	56.3
05:20:00	59.3	61.8	UNDER	60.3	56.3
05:25:00	59.3	63.5	UNDER	60.3	56.3
05:30:00	59.5	62.8	UNDER	61.3	56.3
05:35:00	59.8	64.6	UNDER	61.3	55.3
05:40:00	59.3	62.8	UNDER	60.3	56.3
05:45:00	58.8	62.2	UNDER	60.3	55.3
05:50:00	58.7	61.8	UNDER	60.3	54.3
05:55:00	59.2	62.1	UNDER	60.3	55.3
06:00:00	59.9	64.2	UNDER	61.3	56.3
06:05:00	58.8	61.4	UNDER	60.3	55.3
06:10:00	59.3	62.3	UNDER	60.3	56.3

06:15:00	58.8	61.2	UNDER	60.3	55.3
06:20:00	59.6	62.6	UNDER	60.3	56.3
06:25:00	59.7	62.6	UNDER	61.3	56.3
06:30:00	59.8	63.8	UNDER	60.3	57.3
06:35:00	60.2	63.7	UNDER	61.3	56.3
06:40:00	60.0	71.4	UNDER	60.3	56.3
06:45:00	60.0	62.1	UNDER	61.3	56.3
06:50:00	60.3	62.6	UNDER	61.3	57.3
06:55:00	60.0	62.6	UNDER	61.3	56.3
07:00:00	60.4	64.6	UNDER	61.3	57.3
07:05:00	60.3	63.4	UNDER	61.3	58.3
07:10:00	59.6	61.8	UNDER	61.3	56.3
07:15:00	60.4	64.3	UNDER	61.3	57.3
07:20:00	60.4	63.7	UNDER	61.3	56.3
07:25:00	60.6	64.0	UNDER	61.3	57.3
07:30:00	60.4	63.0	UNDER	61.3	58.3
07:35:00	60.4	62.5	UNDER	61.3	57.3
07:40:00	60.2	64.6	UNDER	61.3	56.3
07:45:00	60.5	64.2	UNDER	61.3	58.3
07:50:00	60.7	62.8	UNDER	61.3	58.3
07:55:00	59.9	62.4	UNDER	61.3	56.3
08:00:00	59.7	62.1	UNDER	61.3	56.3
08:05:00	59.7	62.1	UNDER	60.3	54.3
08:10:00	60.3	62.6	UNDER	61.3	57.3
08:15:00	60.5	65.7	UNDER	61.3	55.3
08:20:00	60.2	63.5	UNDER	61.3	57.3
08:25:00	60.0	65.8	UNDER	61.3	57.3
08:30:00	59.8	62.5	UNDER	61.3	56.3
08:35:00	60.0	63.2	UNDER	61.3	56.3
08:40:00	60.2	63.4	UNDER	61.3	56.3
08:45:00	60.3	64.6	UNDER	61.3	56.3
08:50:00	60.0	63.5	UNDER	61.3	57.3
08:55:00	60.1	62.2	UNDER	61.3	57.3
09:00:00	59.3	63.8	UNDER	60.3	54.3
09:05:00	60.0	62.5	UNDER	61.3	57.3
09:10:00	59.7	62.2	UNDER	61.3	55.3
09:15:00	59.6	63.0	UNDER	61.3	56.3
09:20:00	59.7	62.4	UNDER	60.3	55.3
09:25:00	59.6	63.8	UNDER	61.3	56.3
09:30:00	59.5	62.6	UNDER	60.3	57.3
09:35:00	59.9	61.8	UNDER	61.3	56.3
09:40:00	59.7	65.8	UNDER	61.3	55.3
09:45:00	59.9	62.6	UNDER	61.3	57.3
09:50:00	59.2	61.6	UNDER	60.3	56.3
09:55:00	59.2	63.0	UNDER	60.3	55.3
10:00:00	60.1	66.2	UNDER	61.3	55.3
10:05:00	59.3	62.2	UNDER	60.3	55.3
10:10:00	58.6	61.4	UNDER	60.3	55.3
10:15:00	58.8	61.2	UNDER	60.3	55.3
10:20:00	58.1	61.2	UNDER	59.3	53.3

10:25:00	58.6	61.0	UNDER	59.3	55.3
10:30:00	58.6	69.4	UNDER	59.3	53.3
10:35:00	58.4	63.8	UNDER	59.3	54.3
10:40:00	59.4	62.2	UNDER	60.3	56.3
10:45:00	60.1	63.4	UNDER	61.3	57.3
10:50:00	59.5	61.8	UNDER	60.3	57.3
10:55:00	60.9	70.2	UNDER	62.3	56.3
11:00:00	60.0	62.6	UNDER	61.3	57.3
11:05:00	59.9	65.3	UNDER	61.3	56.3
11:10:00	60.6	70.2	UNDER	61.3	57.3
11:15:00	60.0	64.2	UNDER	61.3	55.3
11:20:00	60.0	62.2	UNDER	61.3	57.3
11:25:00	61.0	64.6	UNDER	61.3	58.3
11:30:00	61.0	65.7	UNDER	62.3	56.3
11:35:00	60.0	64.1	UNDER	61.3	55.3
11:40:00	63.7	72.6	UNDER	67.3	58.3
11:45:00	61.1	63.8	UNDER	62.3	58.3
11:50:00	60.6	63.1	UNDER	61.3	58.3
11:55:00	60.1	65.4	UNDER	61.3	56.3
12:00:00	70.9	92.1	120.2	71.3	56.3

FilenameM07 Test Location3215 Fledgling Circle Employee NameAJD, EJA Employee Number DepartmentENV VDOT Van Buren Road Exten sion 20 minute short-term traffic noise measuremen ts
Calibrator TypeMetrosonics CL304 SN4480
•
Calibrator Cal. Date2020-06-02

METROSONICS db-3080 V1.20 SERIAL # 5093 REPORT PRINTED ON 02/11/21 at 15:44:34
Harry TD.
User ID:
LOGGING STARTED02/09/21 at 11:50:30 TOTAL LOGGING TIME0 DAYS 01:08:50 LOGGING STOPPED02/09/21 at 12:59:20 TOTAL INTERVALS138 INTERVAL LENGTH00:00:30
AUTO STOPNO
CLOCK SYNCHYES
RESPONSE RATESLOW
FILTERA WT.
I ILILIN WI.
PRE-TEST CALIBRATION TIME02/09/21 AT 10:27:25 PRE-TEST CALIBRATION RANGE40.9 TO 140.9 dB POST-TEST CALIBRATION TIME02/10/21 AT 04:12:35 POST-TEST CALIBRATION RANGE40.9 TO 140.9 CUTOFF USED FOR TIME HISTORY LavNONE
<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>
EVOLANCE DATE 24D
EXCHANGE RATE3dB
CUTOFFS 80dB 90dB
CEILING115dB
DOSE CRITERION LEVEL 90dB
DOSE CRITERION LENGTH 8 HOURS

Lav Lav (80) Lav (90) SEL	63.5dB 44.5dB 40.9dB 99.5dB		
TWA TWA (80) TWA (90)	55.1dB 40.9dB 40.9dB		
Lmax Lpk TIME OVER 115dB.	116.0dB	02/09/21	
DOSE (80) PROJ. DOSE (80) DOSE (90) PROJ. DOSE (90)	0.	00% 00% 00% 00%	

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

TIME	Lav	Lmax	Lpk	L(10.0)	L(99.9)
	dBA	dBA	dBC	dBA	dBA
02/09/21					
11:50:30	64.4	68.8	UNDER	65.9	62.9
11:51:00	62.8	65.3	UNDER	63.9	61.9
11:51:30	65.0	66.7	UNDER	65.9	62.9
11:52:00	64.2	65.2	UNDER	64.9	63.9
11:52:30	64.1	67.4	UNDER	65.9	62.9
11:53:00	62.8	64.6	UNDER	63.9	61.9
11:53:30	63.5	65.4	UNDER	64.9	61.9
11:54:00	62.7	63.9	UNDER	63.9	60.9
11:54:30	63.9	65.5	UNDER	65.9	61.9
11:55:00	64.1	65.2	UNDER	64.9	62.9
11:55:30	65.1	66.6	UNDER	66.9	62.9
11:56:00	67.6	75.3	UNDER	70.9	62.9
11:56:30	63.6	64.8	UNDER	64.9	62.9
11:57:00	64.4	65.5	UNDER	65.9	63.9
11:57:30	64.2	65.8	UNDER	65.9	62.9
11:58:00	63.7	65.1	UNDER	64.9	62.9
11:58:30	64.0	65.9	UNDER	65.9	61.9
11:59:00	63.9	66.3	UNDER	65.9	62.9
11:59:30	64.2	65.5	UNDER	65.9	63.9
12:00:00	63.1	65.2	UNDER	64.9	61.9
12:00:30	63.5	64.3	UNDER	64.9	62.9
12:01:00	64.9	73.3	UNDER	64.9	62.9
12:01:30	65.6	67.9	UNDER	66.9	64.9
12:02:00	65.7	67.6	UNDER	66.9	64.9
12:02:30	64.7	69.9	UNDER	66.9	62.9

12:03:00	63.7	64.9	UNDER	64.9	62.9
12:03:30	62.4	64.8	UNDER	64.9	60.9
12:04:00	63.8	65.2	UNDER	64.9	62.9
12:04:30	63.6	65.1	UNDER	64.9	62.9
12:05:00	64.0	66.4	UNDER	64.9	63.9
12:05:30	64.2	67.5	UNDER	65.9	61.9
12:06:00	66.3	70.3	UNDER	69.9	63.9
12:06:30	63.6	65.1	UNDER	64.9	61.9
12:07:00	64.9	66.4	UNDER	65.9	63.9
12:07:30	64.8	66.4	UNDER	65.9	63.9
12:08:00	65.0	67.4	UNDER	65.9	63.9
12:08:30	64.5	65.2	UNDER	65.9	63.9
12:09:00	65.0	66.7	UNDER	66.9	63.9
12:09:30	66.3	68.3	UNDER	67.9	64.9
12:10:00	64.1	66.8	UNDER	65.9	62.9
12:10:30	65.6	68.1	UNDER	67.9	63.9
12:11:00	65.2	67.9	UNDER	67.9	61.9
12:11:30	63.0	64.1	UNDER	63.9	62.9
12:12:00	63.3	64.4	UNDER	64.9	61.9
12:12:30	65.5	66.6	UNDER	66.9	62.9
12:13:00	64.0	65.2	UNDER	65.9	62.9
12:13:30	63.1	63.9	UNDER	63.9	62.9
12:14:00	63.1	64.4	UNDER	63.9	62.9
12:14:30	61.9	63.6	UNDER	62.9	60.9
12:15:00	62.5	65.1	UNDER	63.9	61.9
12:15:30	63.6	64.8	UNDER	64.9	62.9
12:16:00	62.9	66.0	UNDER	64.9	60.9
12:16:30	62.1	64.0	UNDER	63.9	59.9
12:17:00	62.8	68.0	UNDER	64.9	60.9
12:17:30	61.8	62.8	UNDER	62.9	60.9
12:18:00	62.7	67.3	UNDER	63.9	61.9
12:18:30	62.1	63.6	UNDER	62.9	59.9
12:19:00	62.2	64.3	UNDER	63.9	61.9
12:19:30	61.2	62.4	UNDER	61.9	60.9
12:20:00	61.2	62.3	UNDER	61.9	60.9
12:20:30	62.1	63.2	UNDER	62.9	60.9
12:21:00	64.1	66.2	UNDER	64.9	62.9
12:21:30	63.8	66.3	UNDER	65.9	62.9
12:22:00	61.9	62.7	UNDER	62.9	60.9
12:22:30	61.7	62.3	UNDER	62.9	60.9
12:23:00	61.4	62.3	UNDER	62.9	59.9
12:23:30	62.3	63.2	UNDER	62.9	61.9
12:24:00	62.1	63.1	UNDER	62.9	60.9
12:24:30	62.2	63.2	UNDER	63.9	60.9
12:25:00	61.2	62.8	UNDER	61.9	60.9
12:25:30	61.9	62.8	UNDER	62.9	60.9
12:26:00	61.5	62.4	UNDER	62.9	60.9
12:26:30	63.0	64.0	UNDER	63.9	62.9
12:27:00	63.1	64.0	UNDER	63.9	62.9
12:27:30	63.8	65.5	UNDER	64.9	62.9

12:28:00	63.4	65.5	UNDER	64.9	62.9
12:28:30	63.0	65.9	UNDER	64.9	61.9
12:29:00	62.7	63.9	UNDER	63.9	61.9
12:29:30	63.3	63.9	UNDER	63.9	62.9
12:30:00	62.4	63.1	UNDER	62.9	61.9
12:30:30	63.5	65.5	UNDER	64.9	61.9
12:31:00	63.6	65.5	UNDER	64.9	62.9
12:31:30	64.3	65.1	UNDER	64.9	63.9
12:32:00	63.8	65.0	UNDER	64.9	62.9
12:32:30	69.7	83.1	116.0	70.9	62.9
12:33:00	64.0	65.5	UNDER	65.9	62.9
12:33:30	64.1	66.0	UNDER	64.9	62.9
12:34:00	64.1	65.9	UNDER	65.9	62.9
12:34:30	63.2	64.8	UNDER	64.9	62.9
12:35:00	64.2	68.3	UNDER	66.9	61.9
12:35:30	63.5	65.9	UNDER	64.9	61.9
12:36:00	64.0	65.9	UNDER	64.9	63.9
12:36:30	62.4	63.8	UNDER	63.9	61.9
12:37:00	62.6	63.9	UNDER	63.9	60.9
12:37:30	61.8	63.1	UNDER	62.9	59.9
12:38:00	62.4	65.2	UNDER	63.9	60.9
12:38:30	62.2	64.3	UNDER	63.9	60.9
12:39:00	61.0	63.2	UNDER	62.9	59.9
12:39:30	63.4	64.7	UNDER	64.9	62.9
12:40:00	62.2	64.1	UNDER	63.9	59.9
12:40:30	63.1	65.2	UNDER	64.9	59.9
12:41:00	63.2	64.4	UNDER	63.9	62.9
12:41:30	62.5	64.0	UNDER	63.9	60.9
12:42:00	64.8	70.3	UNDER	66.9	62.9
12:42:30	63.3	64.8	UNDER	64.9	61.9
12:43:00	62.9	66.4	UNDER	63.9	61.9
12:43:30	62.4	63.5	UNDER	63.9	61.9
12:44:00	63.7	65.9	UNDER	64.9	61.9
12:44:30	63.5	64.7	UNDER	64.9	62.9
12:45:00	62.9	64.0	UNDER	63.9	61.9
12:45:30	63.8	66.7	UNDER	65.9	62.9
12:46:00	63.9	66.0	UNDER	64.9	61.9
12:46:30	62.6	65.2	UNDER	64.9	59.9
12:47:00	62.9	65.2	UNDER	64.9	61.9
12:47:30	62.3	64.3	UNDER	63.9	60.9
12:48:00	63.1	65.5	UNDER	64.9	60.9
12:48:30	62.5	64.0	UNDER	63.9	61.9
12:49:00	63.4	65.5	UNDER	64.9	61.9
12:49:30	62.0	64.1	UNDER	63.9	59.9
12:50:00	61.6	63.6	UNDER	63.9	60.9
12:50:30	61.7	63.9	UNDER	62.9	60.9
12:51:00	62.4	65.3	UNDER	64.9	61.9
12:51:30	61.6	67.5	UNDER	62.9	59.9
12:52:00	62.7	63.9	UNDER	63.9	61.9
12:52:30	62.6	63.6	UNDER	63.9	61.9
			J = 1.		

12:53:00	62.0	64.0	UNDER	63.9	60.9
12:53:30	60.7	61.9	UNDER	61.9	58.9
12:54:00	62.3	63.9	UNDER	63.9	60.9
12:54:30	62.8	64.3	UNDER	63.9	61.9
12:55:00	62.9	64.8	UNDER	64.9	61.9
12:55:30	62.0	67.9	UNDER	62.9	60.9
12:56:00	60.7	61.9	UNDER	61.9	59.9
12:56:30	60.7	61.9	UNDER	61.9	59.9
12:57:00	61.4	63.5	UNDER	62.9	59.9
12:57:30	61.4	63.1	UNDER	62.9	60.9
12:58:00	62.3	69.9	UNDER	62.9	60.9
12:58:30	60.8	61.6	UNDER	61.9	59.9
12:59:00	65.5	76.7	UNDER	61.9	60.9

Measurement Site M-08 15606 Habitat Court **CSV** [Setting] [Property] System Version, 2.0 NX-42EX Version, 1.9 NX-42WR Version, 1.7 NX-42RT Version, 1.9 NX-42FT Version, 1.3 Serial Number, 1198633 [NL-42] Store Name, 3001 Type, NL-52 Index Number,1 Frequency Weighting, A Time Weighting, S Output Level Range Upper, 130 Output Level Range Lower, 30 Delay Time, Off Windscreen Correction, WS-10 Diffuse Sound Field Correction,Off LN Mode, Leq 1s Display Leq,On Display LE,Off Display Lmax, On Display Lmin, On Display Ly,Off Display LN1,Off Display LN2,Off Display LN3,Off Display LN4,Off Display LN5,Off Display Time Level, On Percentile 1,5 Percentile 2,10 Percentile 3,50 Percentile 4,90 Percentile 5,95.0 Ly Type,Off AC OUT, Main DC OUT, Main Comparator, Off

Comparator Level,70 Comparator Channel,Main Battery Type,Alkaline

Communication Interface,Off

Baud Rate,9600 Language,English

[NX-42EX] Lp Store Int

Lp Store Interval,Leq_1s Leq Calculation Interval,30 s Timer Auto Start Time,-Timer Auto Stop Time,-Timer Auto Interval,-Sleep Mode,Off

[Status]

Measurement Start Time,2021/02/09 12:18:51
Measurement Stop Time,2021/02/09 12:53:00
Lp Data Number,2049
Leq Data Number,69
Measure Time,00d 00:34:09.1

```
Address, Start Time, Measurement
Time, Leq, LE, Lmax, Lmin, Ly, LN1, LN2, LN3, LN4, LN5, Over, Under,
    1,2021/02/09 12:18:51,00d 00:00:30.0, 45.7, 60.5, 49.3, 42.4, -.-, 48.9, 48.5,
44.5, 42.6, 42.4,----,
    2,2021/02/09 12:19:21,00d 00:00:30.0, 46.2, 61.0, 49.7, 42.4, ---, 49.2, 48.6,
45.8, 44.1, 42.8,----,
    3,2021/02/09 12:19:51,00d 00:00:30.0, 45.8, 60.6, 47.7, 44.0, -.-, 47.8, 47.3,
45.6, 44.3, 44.2,----,
    4,2021/02/09 12:20:21,00d 00:00:30.0, 45.9, 60.7, 49.0, 43.2, -.-, 48.7, 48.3,
45.8, 43.9, 43.7,----,
    5,2021/02/09 12:20:51,00d 00:00:30.0, 48.7, 63.5, 52.3, 44.6, -.-, 51.9, 51.9,
48.5, 44.9, 44.6,---,-
    6,2021/02/09 12:21:21,00d 00:00:30.0, 46.3, 61.1, 49.6, 42.5, ---, 49.8, 49.6,
45.1, 42.8, 42.6,----,
    7,2021/02/09 12:21:51,00d 00:00:30.0, 45.6, 60.4, 49.2, 42.3, -.-, 48.8, 48.3,
45.3, 42.7, 42.1,----,
    8,2021/02/09 12:22:21,00d 00:00:30.0, 44.5, 59.3, 47.1, 42.2, -.-, 47.0, 46.6,
44.0, 42.8, 42.4,----,
    9,2021/02/09 12:22:51,00d 00:00:30.0, 44.4, 59.2, 45.8, 42.3, -.-, 45.8, 45.5,
44.6, 42.6, 42.4,----,
   10,2021/02/09 12:23:21,00d 00:00:30.0, 47.4, 62.2, 50.9, 42.1, -.-, 50.8, 50.5,
46.9, 42.5, 42.2,----,
   11,2021/02/09 12:23:51,00d 00:00:30.0, 44.9, 59.7, 46.4, 43.7, -.-, 45.9, 45.7,
44.9, 43.9, 43.7,----,
   12,2021/02/09 12:24:21,00d 00:00:30.0, 47.9, 62.7, 50.5, 45.2, -.-, 50.5, 50.5,
46.9, 45.4, 45.2,----,
   13,2021/02/09 12:24:51,00d 00:00:30.0, 49.1, 63.9, 54.1, 44.5, -.-, 52.7, 52.4,
47.0, 44.8, 44.6,----,
   14,2021/02/09 12:25:21,00d 00:00:30.0, 49.7, 64.5, 55.9, 45.2, -.-, 53.9, 53.3,
48.7, 45.7, 45.6,----,
   15,2021/02/09 12:25:51,00d 00:00:30.0, 45.7, 60.5, 49.4, 43.2, -.-, 48.5, 48.2,
45.3, 43.5, 43.2,----,
   16,2021/02/09 12:26:21,00d 00:00:30.0, 46.0, 60.8, 48.6, 42.2, -.-, 48.6, 48.4,
46.5, 43.2, 42.3,----,
   17,2021/02/09 12:26:51,00d 00:00:30.0, 46.6, 61.4, 50.5, 43.7, ---, 50.1, 49.5,
45.9, 43.7, 43.7,----,
   18,2021/02/09 12:27:21,00d 00:00:30.0, 53.1, 67.9, 61.8, 43.6, -.-, 61.8, 59.5,
46.5, 44.1, 43.9,----,
   19,2021/02/09 12:27:51,00d 00:00:30.0, 54.6, 69.4, 63.4, 41.4, -.-, 62.8, 61.1,
48.9, 41.8, 41.3,----,
   20,2021/02/09 12:28:21,00d 00:00:30.0, 46.6, 61.4, 49.5, 43.2, ---, 49.2, 49.1,
46.7, 43.9, 43.1,----,
   21,2021/02/09 12:28:51,00d 00:00:30.0, 49.2, 64.0, 55.6, 44.1, ---, 54.6, 53.9,
47.2, 44.3, 44.2,----,
   22,2021/02/09 12:29:21,00d 00:00:30.0, 43.2, 58.0, 44.6, 41.3, -.-, 44.5, 44.3,
43.4, 41.5, 41.4,----,
   23,2021/02/09 12:29:51,00d 00:00:30.0, 45.3, 60.1, 48.6, 42.4, ---, 48.4, 47.0,
44.5, 43.2, 42.8,----,
   24,2021/02/09 12:30:21,00d 00:00:30.0, 51.9, 66.7, 57.7, 43.5, -.-, 57.2, 57.0,
47.8, 43.9, 43.8,----,
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25,2021/02/09 12:30:51,00d 00:00:30.0, 43.6, 58.4, 45.4, 41.8, -.-, 45.2, 45.0,
43.6, 42.3, 42.0,----,
   26,2021/02/09 12:31:21,00d 00:00:30.0, 47.7, 62.5, 53.5, 42.2, -.-, 53.1, 52.4,
44.7, 43.1, 42.5,----,
   27,2021/02/09 12:31:51,00d 00:00:30.0, 47.6, 62.4, 56.2, 41.7, -.-, 54.3, 51.8,
44.2, 42.5, 41.9,----,
   28,2021/02/09 12:32:21,00d 00:00:30.0, 44.9, 59.7, 49.5, 41.4, -.-, 48.0, 46.1,
44.6, 41.9, 41.4,----,
   29,2021/02/09 12:32:51,00d 00:00:30.0, 44.7, 59.5, 50.3, 42.4, -.-, 48.6, 47.0,
43.8, 43.0, 42.3,----,
   30,2021/02/09 12:33:21,00d 00:00:30.0, 45.3, 60.1, 50.5, 42.0, -.-, 50.5, 48.1,
43.6, 42.4, 42.3,----,
   31,2021/02/09 12:33:51,00d 00:00:30.0, 45.5, 60.3, 47.6, 44.1, -.-, 47.6, 46.9,
45.2, 44.2, 44.1,----,
   32,2021/02/09 12:34:21,00d 00:00:30.0, 43.8, 58.6, 46.3, 41.5, -.-, 46.0, 45.6,
43.5, 41.6, 41.5,----,
   33,2021/02/09 12:34:51,00d 00:00:30.0, 43.7, 58.5, 45.3, 42.2, -.-, 45.2, 44.7,
43.7, 42.8, 42.2,---,-
   34,2021/02/09 12:35:21,00d 00:00:30.0, 46.2, 61.0, 52.1, 41.9, -.-, 51.3, 51.2,
43.9, 42.4, 42.0,----,
   35,2021/02/09 12:35:51,00d 00:00:30.0, 45.9, 60.7, 49.1, 41.7, -.-, 49.1, 48.8,
44.9, 42.2, 41.9,----,
   36,2021/02/09 12:36:21,00d 00:00:30.0, 48.1, 62.9, 52.8, 42.7, -.-, 52.3, 51.6,
47.1, 44.2, 43.7,----,
   37,2021/02/09 12:36:51,00d 00:00:30.0, 56.0, 70.8, 60.7, 51.3, -.-, 60.9, 58.6,
55.1, 51.8, 50.7,----,
   38,2021/02/09 12:37:21,00d 00:00:30.0, 47.2, 62.0, 53.9, 44.6, -.-, 50.8, 49.5,
46.6, 44.9, 44.8,----,
   39,2021/02/09 12:37:51,00d 00:00:30.0, 44.2, 59.0, 46.3, 42.5, -.-, 46.1, 46.1,
44.1, 42.6, 42.5,----,
   40,2021/02/09 12:38:21,00d 00:00:30.0, 45.4, 60.2, 49.2, 42.4, ---, 49.3, 48.8,
44.9, 43.1, 42.6,----,
   41,2021/02/09 12:38:51,00d 00:00:30.0, 47.9, 62.7, 51.8, 44.0, -.-, 51.3, 50.7,
46.3, 44.9, 44.1,----,
   42,2021/02/09 12:39:21,00d 00:00:30.0, 46.1, 60.9, 48.6, 43.8, ---, 48.4, 48.3,
45.8, 44.2, 44.1,----,
   43,2021/02/09 12:39:51,00d 00:00:30.0, 48.6, 63.4, 56.0, 44.0, -.-, 55.5, 52.7,
46.2, 45.1, 44.6,----,
   44,2021/02/09 12:40:21,00d 00:00:30.0, 47.6, 62.4, 55.5, 43.2, -.-, 53.8, 50.4,
45.7, 43.4, 43.2,----,
   45,2021/02/09 12:40:51,00d 00:00:30.0, 45.6, 60.4, 48.0, 43.6, -.-, 47.4, 47.0,
45.4, 43.9, 43.6,----,
   46,2021/02/09 12:41:21,00d 00:00:30.0, 45.7, 60.5, 47.6, 43.5, -.-, 47.4, 47.4,
45.5, 44.0, 43.7,----,
   47,2021/02/09 12:41:51,00d 00:00:30.0, 54.2, 69.0, 62.5, 44.9, -.-, 61.8, 60.0,
46.1, 45.1, 45.0,----,
   48,2021/02/09 12:42:21,00d 00:00:30.0, 60.9, 75.7, 69.8, 51.3, -.-, 68.6, 65.4,
56.1, 52.6, 51.3,----,
   49,2021/02/09 12:42:51,00d 00:00:30.0, 49.1, 63.9, 57.1, 44.0, -.-, 55.4, 52.5,
46.5, 44.2, 44.1,----,
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50,2021/02/09 12:43:21,00d 00:00:30.0, 44.6, 59.4, 46.2, 42.8, -.-, 46.2, 45.9,
44.3, 43.7, 43.1,----,
   51,2021/02/09 12:43:51,00d 00:00:30.0, 51.7, 66.5, 57.0, 42.6, -.-, 57.1, 56.7,
47.1, 44.8, 43.0,----,
   52,2021/02/09 12:44:21,00d 00:00:30.0, 46.4, 61.2, 49.9, 44.3, -.-, 48.6, 48.4,
45.9, 44.8, 44.3,----,
   53,2021/02/09 12:44:51,00d 00:00:30.0, 47.9, 62.7, 55.5, 42.9, -.-, 53.7, 52.0,
44.4, 43.2, 42.9,---,-
   54,2021/02/09 12:45:21,00d 00:00:30.0, 48.5, 63.3, 56.3, 43.8, -.-, 54.2, 53.0,
45.6, 44.0, 43.9,----,
   55,2021/02/09 12:45:51,00d 00:00:30.0, 44.7, 59.5, 47.1, 43.1, -.-, 47.0, 46.7,
44.4, 43.6, 43.2,----,
   56,2021/02/09 12:46:21,00d 00:00:30.0, 46.1, 60.9, 47.8, 44.2, ---, 47.6, 47.5,
45.8, 44.6, 44.5,----,
   57,2021/02/09 12:46:51,00d 00:00:30.0, 46.9, 61.7, 48.2, 44.9, -.-, 47.9, 47.9,
46.9, 45.8, 44.9,----,
   58,2021/02/09 12:47:21,00d 00:00:30.0, 44.9, 59.7, 47.2, 43.3, -.-, 46.7, 46.4,
44.5, 43.5, 43.4,----,
   59,2021/02/09 12:47:51,00d 00:00:30.0, 44.8, 59.6, 47.4, 42.3, -.-, 47.1, 46.9,
44.5, 42.6, 42.2,----,
   60,2021/02/09 12:48:21,00d 00:00:30.0, 47.8, 62.6, 54.1, 41.5, -.-, 51.6, 51.3,
47.3, 42.4, 41.7,----,
   61,2021/02/09 12:48:51,00d 00:00:30.0, 48.9, 63.7, 55.2, 44.4, ---, 55.0, 51.5,
47.1, 45.0, 44.4,---,
   62,2021/02/09 12:49:21,00d 00:00:30.0, 54.8, 69.6, 60.9, 42.2, -.-, 60.5, 60.2,
50.6, 42.5, 42.2,----,
   63,2021/02/09 12:49:51,00d 00:00:30.0, 51.4, 66.2, 61.7, 42.0, -.-, 59.4, 55.9,
43.1, 42.4, 42.3,----,
   64,2021/02/09 12:50:21,00d 00:00:30.0, 53.5, 68.3, 63.7, 44.9, ---, 61.3, 58.3,
46.7, 45.1, 44.8,----,
   65,2021/02/09 12:50:51,00d 00:00:30.0, 42.9, 57.7, 46.0, 41.3, -.-, 44.8, 44.4,
42.8, 41.6, 41.4,---,
   66,2021/02/09 12:51:21,00d 00:00:30.0, 45.2, 60.0, 50.4, 41.9, -.-, 50.4, 50.3,
43.8, 42.1, 42.1, ----,
   67,2021/02/09 12:51:51,00d 00:00:30.0, 49.2, 64.0, 56.4, 44.6, ---, 54.9, 51.9,
48.3, 44.7, 44.6,---,
   68,2021/02/09 12:52:21,00d 00:00:30.0, 45.7, 60.5, 48.5, 43.5, ---, 48.1, 47.9,
44.8, 43.9, 43.6,----,
   69,2021/02/09 12:52:51,00d 00:00:09.1, 44.8, 54.4, 47.3, 44.0, -.-, 47.5, 47.5,
44.3, 43.6, 43.6,----,
```



3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533 Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name : Sound Level Meter, Class 1

Model : NL-52 S/No. : 01198634

Date of Calibration: January, 22, 2020

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

RION CO., LTD.

Manager, Quality Control Department



Supplied Accessories

< 1 / 1 >

Model NL-52

Product Name

Sound Level Meter, Class 1

Ensure all the items below are in the package. If there is a missing part, please contact your supplier.

Type	Description	Quantity	Note
NL-52	Main unit	1	
NL-42-025	Storage case	1	
WS-10	Windscreen	1	
NL-42-033	Windscreen fall prevention rubber	1	attached to the main unit
VM-63-017	Hand strap	1	
LR6	Size AA alkaline batteries	4	
	CD-ROM (Instruction manual, Serial interface manual, Technical notes, Program option manual)	1	
	Description for IEC 61672-1	1	
	SD memory card (512 MByte)	1	only when NX-42EX is pre- installed
,	Inspection certificate	1	This sheet
	Document for China RoHS	1	only to China

Inspection Certificate

INSPECTOR

M. hidapa

We hereby certify that this product has been tested and calibrated at our factory according to RION specifications and that the product satisfies all relevant requirements.

RION CO., LTD. 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

Sound and Vibration Measuring Instrument Section Product information and software downloads can be found on our web-site:

https://rion-sv.com/ Please check it out.

NºC11030502



3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533 Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name : Sound Level Meter, Class 1

Model : NL-52 S/No. : 01198633

Date of Calibration : January, 22, 2020

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

RION CO., LTD.

Manager, Quality Control Department



Supplied Accessories

< 1 / 1 >

Model

NL-52

Product Name

Sound Level Meter, Class 1

Ensure all the items below are in the package. If there is a missing part, please contact your supplier.

Type	Description	Quantity	Note
NL-52	Main unit	1	
NL-42-025	Storage case	1	
WS-10	Windscreen	1	
NL-42-033 Windscreen fall prevention rubber		1	attached to the main unit
VM-63-017	Hand strap	1	
LR6	Size AA alkaline batteries	4	
	CD-ROM (Instruction manual, Serial interface manual, Technical notes, Program option manual)	1	
	Description for IEC 61672-1	1	
	SD memory card (512 MByte)	1	only when NX-42EX is pre- installed
	Inspection certificate	1	This sheet
	Document for China RoHS	1	only to China

Inspection Certificate

INSPECTOR

M. pidapa

We hereby certify that this product has been tested and calibrated at our factory according to RION specifications and that the product satisfies all relevant requirements.

RION CO., LTD. 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

Sound and Vibration Measuring Instrument Section Product information and software downloads can be found on our web-site:

https://rion-sv.com/ Please check it out.

NºC11030502

Certificate of Calibration

for

SOUND LEVEL METER

Manufactured by:

RION

Model No:

NL-52

Serial No:

00464709

Calibration Recall No: 31445

Submitted By:

Customer:

Company:

ROBERT C. KOLMANSBERGER

Address:

151 RENO AVENUE

NEW CUMBERLAN

PA 17070

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

RION

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2. Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract review.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL STD 45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025

Certificate Page 1 of 1

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date:

23-Nov-20

James Zhu

Certificate No:

31445 - 1

Quality Manager

QA Doc. #1051 Rev. 3.0 5/29/20

ISO/IEC 17025:2017

West Caldwell Calibration uncompromised calibration Laboratories, Inc.

575 State Route 96, Victor, NY 14564, U.S.A

ACCREDITED



Certificate of Calibration

for

MICROPHONE

Manufactured by: RION
Model No: UC-59
Serial No: 09270
Calibration Recall No: 31445

Submitted By:

Customer:

Company: ROBERT C. KOLMANSBERGER

Address: 151 RENO AVENUE

NEW CUMBERLAN PA 17070

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. UC-59 RION

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2. Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract review.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL STD 45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date: 23-Nov-20

James Zhu

Certificate No: 31445 - 2

Quality Manager

QA Doc. #1051 Rev. 3.0 5/29/20

ISO/IEC 17025:2017
Certificate Page 1 of 1

West Caldwell
Calibration
Laboratories, Inc.

ACCREDITED

Calibration Lab. Cert. # 1533.01

575 State Route 96, Victor, NY 14564, U.S.A.

Certificate of Calibration

for

SOUND LEVEL METER

Manufactured by:

RION

Model No:

NL-52

Serial No:

00464710

Calibration Recall No: 31445

Submitted By:

Customer:

Company:

ROBERT C. KOLMANSBERGER

Address:

151 RENO AVENUE NEW CUMBERLAN

PA 17070

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

NL-52

RION

Upon receipt for Calibration, the instrument was found to be:

Within

 (\mathbf{X})

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2. Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract review.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL STD 45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date:

23-Nov-20

James Zhu

Certificate No:

31445 - 4

Quality Manager ISO/IEC 17025:2017

QA Doc. #1051 Rev. 3.0 5/29/20

Certificate Page 1 of 1

West Caldwell Calibration uncompromised calibration Laboratories, Inc.

575 State Route 96, Victor, NY 14564, U.S.A

Certificate of Calibration

for

MICROPHONE

Manufactured by: RION UC-59 Model No:

09271 Serial No: Calibration Recall No: 31445

Submitted By:

Customer:

Company:

ROBERT C. KOLMANSBERGER

151 RENO AVENUE Address:

> PA 17070 NEW CUMBERLAN

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

UC-59 RION

Upon receipt for Calibration, the instrument was found to be:

 (\mathbf{X}) Within

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2. Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract review.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL STD 45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date:

23-Nov-20

Certificate No:

31445 - 5

QA Doc. #1051 Rev. 3.0 5/29/20

Certificate Page 1 of 1

West Caldwell Calibration uncompromised calibration \ Laboratories, Inc.

575 State Route 96: Victor, NY 14564, U.S.A



James Zhu

Quality Manager

ISO/IEC 17025:2017



Certificate of Calibration

for

SOUND CALIBRATOR

Manufactured by: **RION** Model No: NC-74 Serial No: 34167534 Calibration Recall No: 31445

Submitted By:

Customer:

Company: ROBERT C. KOLMANSBERGER

Address: **151 RENO AVENUE**

> **NEW CUMBERLAN** PA 17070

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

NC-74 RION West Caldwell Calibration Laboratories Procedure No.

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2. Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract review.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL STD 45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025

Certificate Page 1 of 1

Note: With this Certificate, Report of Calibration is included.

23-Nov-20

31445 - 7 Certificate No:

QA Doc. #1051 Rev. 3.0 5/29/20

Calibration Date:

Quality Manager

James Zhu

Approved by:

ISO/IEC 17025:2017

ACCREDITED

Calibration Lab. Cert. # 1533.01

West Caldwell Calibration uncompromised calibration \ Laboratories, Inc.

575 State Route 96, Victor, NY 14564, U.S.A

Certificate of Conformance

for

PERMISSIBLE SOUND LEVEL METER

Manufactured by:

METROSONICS

Model No:

db3080

Serial No:

3895

Calibration Recall No:

30971

Submitted By:

Customer:

ALAN J. DUNAY

Company:

SKELLY & LOY, INC.

Address:

449 EISENHOWER BLVD., STE. 300

HARRISBURG

PA 17111

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

db3080

METR

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2.Manufacturer's tolerance is too small compared to calibration and measuremnt capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date:

02-Jun-20

Quality Manager

Certificate No:

30971 -1

allered.

QA Doc. #1051 Rev. 3.0 5/29/20

Certificate Page 1 of 1

West Caldwell Calibration Laboratories, Inc.

1575 State Route 96, Victor, NY 14564, U.S.A.

Calibration Lab. Cert. # 1533.01

James Zhu

ISO/IEC 17025:2017



ISO/IEC 17025: 2017 Calibration Lab. Cert. # 1533.01

1575 State Route 96, Victor NY 14564

REPORT OF CALIBRATION

for

Metrosonics Permissible Sound Level Meter

Model No.: dB3080 Company: Skelly & Loy, Inc. Serial No.: 3895 I. D. No.: XXXX

Calibration results:

Before data:

After data:

Before & after data same: ...X.....

All tested parameters: Pass

Laboratory Environment:

Ambient Temperature:

21.8 °C % RH

Ambient Humidity:

40.6

Ambient Pressure:

99.362

Calibration Date: 2-Jun-2020

Calibration Due: 2-Jun-2021

Report Number:

30971 -1

kPa

Control Number:

30971

The above listed instrument meets or exceeds the tested manufacturer's specifications.

For details see "Calibration Data Record"

This Calibration is traceable through NIST test numbers listed below.

The absolute uncertainty of calibration: See last page. Unless otherwise noted, the reported values are both "as found" and "as left" data.

The above listed instrument was checked using calibration procedure documented in West Caldwell

Calibration Laboratories Inc. procedure :

Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

Calibration was performed by West Caldwell Calibration Laboratories Inc. under Operating Procedures

intended to implement the requirements of ISO10012-1, IEC Guide 25, ANSI/NCSL Z540-1, (MIL-STD-45662A), ISO 9001:2015 and ISO 17025

NIST Traceable Instruments:			Date of Cal.	Traceability No.	Re-cal. Due Date
Brüel & Kjær	4231	S/N 2205492	10-Jul-2019	684.07/O-0000001126-20	10-Jul-2020
Brüel & Kjær	4226	S/N 2220624	11-Jul-2019	684.07/O-0000001126-20	11-Jul-2020

Cal. Date: 2-Jun-2020

Measurements performed by: ...

Matthew Smith

Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

Calibrated on WCCL system type 9700

This document shall not be reproduced, except in full, without the written approval from West Caldwell Cal. Labs. Inc.

1575 State Route 96, Victor NY 14564 Tel. (585) 586-3900 FAX (585) 586-4327

Calibration Data Record

for

Manufacturer: Metrosonics

Model No.: db-3080

S/N: 3895

Submitted by,

Permissible Sound Level Meter

Company: Skelly & Loy, Inc.

Test	Function	Tole	rance		Meas	ured v	alues	
		Min	Max		Before	Out	After	Out
,0.	SPL Reading with 102.0dB SPL	101.4	102.6		102.0		102.0	
,1.	Level Accuracy	93.4	94.6	94dB	94.0		94.0	
,	,	103.4	104.6	104dB	104.2		104.2	
		113.4	114.6	114dB	114.0		114.0	
,2.	Frequency Response	88.0	97.8	8kHz	95.0		89.7	
,—-	A Weighting	92.1	97.9	4kHz	97.8		97.8	
		93.3	97.1	2kHz	95.6		95.6	
		92.6	95.4	1kHz	94.0		94.0	
		89.4	92.2	500Hz	90.9		90.9	
		84.0	86.8	250Hz	85.2		85.2	
		76.5	79.3	125Hz	77.5		77.5	
		65.9	69.7	63Hz	66.8		66.8	
		51.8	57.5	31.5Hz	54.0		54.0	
	C Weighting	86.1	95.9	8kHz	88.4		88.4	
		90.3	96.1	4kHz[95.0		95.0	
		91.9	95.7	2kHz[94.4		94.4	
		92.6	95.4	1kHz	94.2		94.2	
		92.6	95.4	500Hz	94.3		94.3	
		92.6	95.4	250Hz	94.4		94.4	
		92.4	95.2	125Hz	94.4		94.4	
		91.3	95.1	63Hz	93.3		93.3	
		88.2	93.9	31.5Hz	90.4		90.4	
,3	ABOUT TO THE STATE OF THE STATE							
	SLM	113.4	114.6	ļ	113.6		113.6	
	L avg. / Leq	113.4	114.6	ļ	113.6		113.6	
	L max.	113.4	114.6		114.1		114.1	
	L pk	116.1	117.9	ŀ	117.0		117.0	
	Dose %	19, 112,112,212	7000000000					
	0.18% @ 94 dB 1kHz	0.14%	0.22%		0.20%		0.20%	
	0.73% @ 104 dB 1kHz	0.58%	0.88%	ļ	0.80%		0.80%	
	2.90% @ 114 dB 1kHz	2.32%	3.48%		3.27%	The state of the s	3.27%	
4	Inherent noise level				49.3		49.3	

The expanded uncertainty of calibration at 95% confidence level with a coverage factor of k=2.

	Test Instrumentation	DUT	Total DUT
Parameter	Uncertainty	Uncertainty	Uncertainty
Acoustic Level ([114 & 94] dB @ 1 kHz):	0.2	0.1	0.30
Meter linearity (Attenuation Generation):	0.46	0.1	0.56
Attenuator accuracy (Attenuation Measure):	0.46	0.1	0.56
Acoustic Freq. Response: 63 Hz to 8 kHz	0.2	0.1	0.30
Inherent noise level:	0.3	0.1	0.40
Functions:	0.2	0.1	0.30
Sensitivity:	0.2	0.1	0.30
Dose:	0.33	0.1	0.43

Measurements performed by:

Calibration Date: 2-Jun-2020 Matthew Smith

Certificate of Conformance

PERMISSIBLE SOUND LEVEL METER

Manufactured by:

METROSONICS

Model No:

db3080

Serial No:

3897

Calibration Recall No:

30971

Submitted By:

Customer:

ALAN J. DUNAY

Company:

SKELLY & LOY, INC.

Address:

449 EISENHOWER BLVD., STE. 300

HARRISBURG

PA 17111

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

db3080

METR

Upon receipt for Calibration, the instrument was found to be:

Within

(X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2.Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025.

Note: With this Certificate. Report of Calibration is included.

Approved by:

Calibration Date:

02-Jun-20

James Zhu

Certificate No:

30971 - 2

Quality Manager ISO/IEC 17025:2017

QA Doc. #1051 Rev. 3.0 5/29/20

Certificate Page 1 of 1

West Caldwell Calibration uncompromised calibration Laboratories, Inc.

1575 State Route 96, Victor, NY 14564, U.S.A.





ISO/IEC 17025: 2017

Calibration Lab. Cert. # 1533.01

1575 State Route 96, Victor NY 14564

REPORT OF CALIBRATION

for

Metrosonics Permissible Sound Level Meter

Model No.: dB3080

Company: Skelly & Loy, Inc.

Serial No.: 3897

I. D. No.: XXXX

Calibration results:

Before data: After data:

Before & after data same: ...X.....

Laboratory Environment:

Ambient Temperature:

21.8

All tested parameters: Pass

Ambient Humidity:

40.6 % RH

kPa

Ambient Pressure:

99.362

Calibration Date: 2-Jun-2020 Calibration Due: 2-Jun-2021

Report Number:

30971 -2

Control Number:

30971

The above listed instrument meets or exceeds the tested manufacturer's specifications.

For details see "Calibration Data Record"

This Calibration is traceable through NIST test numbers listed below.

The absolute uncertainty of calibration: See last page. Unless otherwise noted, the reported values are both "as found" and "as left" data.

The above listed instrument was checked using calibration procedure documented in West Caldwell Calibration Laboratories Inc. procedure : Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

Calibration was performed by West Caldwell Calibration Laboratories Inc. under Operating Procedures

intended to implement the requirements of ISO10012-1, IEC Guide 25, ANSI/NCSL Z540-1, (MIL-STD-45662A), ISO 9001;2015 and ISO 17025

NIST Traceable Instr	ruments:		Date of Cal.	Traceability No.	Re-cal. Due Date
Brüel & Kjær	4231	S/N 2205492	10-Jul-2019	684.07/O-0000001126-20	10-Jul-2020
Brüel & Kjær	4226	S/N 2220624	11-Jul-2019	684.07/O-0000001126-20	11-Jul-2020

Cal. Date: 2-Jun-2020

Measurements performed by: MS

Matthew Smith

Calibrated on WCCL system type 9700

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Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

1575 State Route 96, Victor NY 14564 Tel. (585) 586-3900 FAX (585) 586-4327

Calibration Data Record

Manufacturer: Metrosonics **Permissible Sound Level Meter**

Model No.: db-3080

S/N: 3897

Submitted by,

Company: Skelly & Loy, Inc.

Test	Function	Tole	rance		Meas	ured v	alues	
		Min	Max		Before	Out	After	Out
,0.	SPL Reading with 102.0dB SPL	404.4	400.0		400.0		400.0	
,0.	SPL Reading with 102.0dB SPL	101.4	102.6		102.0		102.0	
,1.	Level Accuracy	93.4	94.6	94dB	94.3		94.3	
	.	103.4	104.6	104dB	104.3		104.3	
		113.4	114.6	114dB	114.3		114.3	
,2.	Frequency Response	88.0	97.8	8kHz	95.0		94.3	
	A Weighting	92.1	97.9	4kHz	95.5		95.5	
		93.3	97.1	2kHz	95.0		95.0	
		92.6	95.4	1kHz	94.3		94.3	
		89.4	92.2	500Hz	91.1		91.1	
		84.0	86.8	250Hz	85.5		85.5	
		76.5	79.3	125Hz	77.8		77.8	
		65.9	69.7	63Hz	67.0		67.0	
		51.8	57.5	31.5Hz	54.7		54.7	
	C Weighting	86.1	95.9	8kHz	94.3		94.3	
		90.3	96.1	4kHz	94.5		94.5	
		91.9	95.7	2kHz	93.9		93.9	
		92.6	95.4	1kHz	94.2		94.2	
		92.6	95.4	500Hz	94.3		94.3	
		92.6	95.4	250Hz	94.4		94.4	
		92.4	95.2	125Hz	94.3		94.3	
		91.3	95.1	63Hz	93.5		93.5	
		88.2	93.9	31.5Hz	91.1		91.1	
,3	that he							
	SLM	113.4	114.6		113.9		113.9	
	L avg. / Leq	113.4	114.6		113.9		113.9	
	L max.	113.4	114.6	[114.0		114.0	
	L pk	116.1	117.9		117.2		117.2	
	Dose %							
	0.18% @ 94 dB 1kHz	0.14%	0.22%	1	0.18%		0.18%	
	0.73% @ 104 dB 1kHz	0.58%	0.88%	Ì	0.83%		0.83%	
	2.90% @ 114 dB 1kHz	2.32%	3.48%	ŀ	3.12%		3.12%	
4	Inherent noise level	30011	311		51.3		51.3	A CONTRACTOR

The expanded uncertainty of calibration at 95% confidence level with a coverage factor of k=2.

Parameter	Test Instrumentation Uncertainty	DUT Uncertainty	Total DUT Uncertainty
	34 (A)		
Acoustic Level ([114 & 94] dB @ 1 kHz):	0.2	0.1	0.30
Meter linearity (Attenuation Generation):	0.46	0.1	0.56
ttenuator accuracy (Attenuation Measure):	0.46	0.1	0.56
Acoustic Freq. Response: 63 Hz to 8 kHz	0.2	0.1	0.30
Inherent noise level:	0.3	0.1	0.40
Functions:	0.2	0.1	0.30
Sensitivity:	0.2	0.1	0.30
Dose:	0.33	0.1	0.43

Measurements performed by:

Calibration Date: 2-Jun-2020 Matthew Smith

Certificate of Conformance

PERMISSIBLE SOUND LEVEL METER

Manufactured by:

METROSONICS

Model No:

db3080

Serial No:

4618

Calibration Recall No:

30971

Submitted By:

Customer:

ALAN J. DUNAY

Company:

SKELLY & LOY, INC.

Address:

449 EISENHOWER BLVD., STE. 300

HARRISBURG

PA 17111

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

db3080

METR

Upon receipt for Calibration, the instrument was found to be:

Within

(X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2.Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhy

Quality Manager

ISO/IEC 17025:2017

Calibration Date:

02-Jun-20

Certificate No:

30971 - 3

QA Doc. #1051 Rev. 3.0 5/29/20

Certificate Page 1 of 1

West Caldwell

Calibration uncompromised calibration Laboratories. Inc.

1575 State Route 96, Victor, NY 14564, U.S.A.



ACCREDITED
Calibration Lab. Cert. # 1533.01

1575 State Route 96, Victor NY 14564

REPORT OF CALIBRATION

for

Metrosonics Permissible Sound Level Meter

Model No.: dB3080 Company: Skelly & Loy, Inc. Serial No.: 4618 I. D. No.: XXXX

Calibration results:

Before data: After data:

Before & after data same: ...X.....

All tested parameters: Pass

Laboratory Environment: Ambient Temperature:

21.8 °C

Ambient Humidity: 40.6 % RH
Ambient Pressure: 99.362 kPa

For details see "Calibration Data Record"

Calibration Date: 2-Jun-2020
Calibration Due: 2-Jun-2021

Report Number: 30971 -3 Control Number: 30971

The above listed instrument meets or exceeds the tested manufacturer's specifications.

This Calibration is traceable through NIST test numbers listed below.

The absolute uncertainty of calibration: See last page. Unless otherwise noted, the reported values are both "as found" and "as left" data.

The above listed instrument was checked using calibration procedure documented in West Caldwell

Calibration Laboratories Inc. procedure:

Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

Calibration was performed by West Caldwell Calibration Laboratories Inc. under Operating Procedures intended to implement the requirements of ISO10012-1, IEC Guide 25, ANSI/NCSL Z540-1, (MIL-STD-45662A), ISO 9001:2015 and ISO 17025

NIST Traceable Inst	ruments:		Date of Cal.	Traceability No.	Re-cal. Due Date
Brüel & Kjær	4231	S/N 2205492	10-Jul-2019	684.07/O-0000001126-20	10-Jul-2020
Brüel & Kjær	4226	S/N 2220624	11-Jul-2019	684.07/O-0000001126-20	11-Jul-2020

Cal. Date: 2-Jun-2020

Measurements performed by:

Matthew Smith

Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

Calibrated on WCCL system type 9700

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1575 State Route 96, Victor NY 14564 Tel. (585) 586-3900 FAX (585) 586-4327

Calibration Data Record

for

Manufacturer: Metrosonics

Model No.: db-3080

S/N: 4618

Submitted by,

Permissible Sound Level Meter

Company: Skelly & Loy, Inc.

Test	Function	Tolei	rance		Meas	ured v	alues	
		Min	Max		Before	Out	After	Out
,0.	SPL Reading with 102.0dB SPL	101.4	102.6		102.0		102.0	
,1.	Level Accuracy	93.4	94.6	94dB	94.2		94.2	
	Love Accuracy	103.4	104.6	104dB	104.4		104.4	
		113.4	114.6	114dB	114.3		114.3	
,2.	Frequency Response	88.0	97.8	8kHz	95.0		95.0	
	A Weighting	92.1	97.9	4kHz	97.3		97.3	
		93.3	97.1	2kHz	95.6		95.6	
		92.6	95.4	1kHz	94.2		94.2	
		89.4	92.2	500Hz	91.1		91.1	
		84.0	86.8	250Hz	85.6		85.6	
		76.5	79.3	125Hz	78.2		78.2	
		65.9	69.7	63Hz	67.9		67.9	
		51.8	57.5	31.5Hz	55.2		55.2	
	C Weighting	86.1	95.9	8kHz	87.6		87.6	
		90.3	96.1	4kHz	95.6		95.6	
		91.9	95.7	2kHz	94.4		94.4	
		92.6	95.4	1kHz	94.2		94.2	
		92.6	95.4	500Hz	94.2		94.2	
		92.6	95.4	250Hz	94.3		94.3	
		92.4	95.2	125Hz	94.2		94.2	
		91.3 88.2	95.1 93.9	63Hz 31.5Hz	93.4 90.4		93.4 90.4	
,3								
	SLM	113.4	114.6		113.9		113.9	
	L avg. / Leq	113.4	114.6	[113.9		113.9	
	L max.	113.4	114.6	[114.0		114.0	
	L pk	116.1	117.9		117.3		117.3	
	Dose %							
	0.18% @ 94 dB 1kHz	0.14%	0.22%		0.18%		0.18%	
	0.73% @ 104 dB 1kHz	0.58%	0.88%		0.83%		0.83%	
	2.90% @ 114 dB 1kHz	2.32%	3.48%		3.12%		3.12%	
4	Inherent noise level				51.9		51.9	

DB3080METR_4618_Jun-02-2020

	Test Instrumentation	DUT	Total DUT
Parameter	Uncertainty	Uncertainty	Uncertainty
Acoustic Level ([114 & 94] dB @ 1 kHz):	0.2	0.1	0.30
Meter linearity (Attenuation Generation):	0.46	0.1	0.56
Attenuator accuracy (Attenuation Measure):	0.46	0.1	0.56
Acoustic Freq. Response: 63 Hz to 8 kHz	0.2	0.1	0.30
Inherent noise level:	0.3	0.1	0.40
Functions:	0.2	0.1	0.30
Sensitivity:	0.2	0.1	0.30
Dose:	0.33	0.1	0.43

Calibration Date: 2-Jun-2020

Measurements performed by:

Matthew Smith

Certificate of Conformance

for

PERMISSIBLE SOUND LEVEL METER

Manufactured by:

METROSONICS

Model No:

db3080

Serial No:

5093

Calibration Recall No:

30971

Submitted By:

Customer:

ALAN J. DUNAY

Company:

SKELLY & LOY, INC.

Address:

449 EISENHOWER BLVD., STE. 300

HARRISBURG

PA 17111

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

db3080

METR

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2.Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date:

02-Jun-20

Certificate No:

30971 -4

QA Doc. #1051 Rev. 3.0 5/29/20

Certificate Page 1 of 1

West Caldwell Calibration

uncompromised calibration Laboratories, Inc.

1575 State Route 96, Victor, NY 14564, U.S.A.

Quality Manager ISO/IEC 17025:2017

James Zhu





1575 State Route 96, Victor NY 14564



REPORT OF CALIBRATION

for

Metrosonics Permissible Sound Level Meter

Model No.: dB3080 Serial No.: 5093 Company: Skelly & Loy, Inc. I. D. No.: XXXX

Calibration results:

Before data: After data:

Before & after data same: ...X.....

All tested parameters: Pass

Laboratory Environment:

Ambient Temperature: 21.8 °C
Ambient Humidity: 40.6 % RH

Ambient Pressure:

99.362 kPa

Calibration Date: 2-Jun-2020

 Calibration Due:
 2-Jun-2021

 Report Number:
 30971 -4

 Control Number:
 30971

The above listed instrument meets or exceeds the tested manufacturer's specifications.

For details see "Calibration Data Record"

This Calibration is traceable through NIST test numbers listed below.

The absolute uncertainty of calibration: See last page. Unless otherwise noted, the reported values are both "as found" and "as left" data.

The above listed instrument was checked using calibration procedure documented in West Caldwell

Calibration Laboratories Inc. procedure :

Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

Calibration was performed by West Caldwell Calibration Laboratories Inc. under Operating Procedures

intended to implement the requirements of ISO10012-1, IEC Guide 25, ANSI/NCSL Z540-1, (MIL-STD-45662A), ISO 9001:2015 and ISO 17025

NIST Traceable Instru	iments:		Date of Cal.	Traceability No.	Re-cal. Due Date
Brüel & Kjær	4231	S/N 2205492	10-Jul-2019	684.07/O-0000001126-20	10-Jul-2020
Brüel & Kjær	4226	S/N 2220624	11-Jul-2019	684.07/O-0000001126-20	11-Jul-2020

Cal. Date: 2-Jun-2020

Measurements performed by:

Matthew Smith

Calibrated on WCCL system type 9700

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Rev. 7.0 Jan. 24, 2014 Doc. # 1038 dB3080METR

1575 State Route 96, Victor NY 14564 Tel. (585) 586-3900 FAX (585) 586-4327

Calibration Data Record

for

Manufacturer: Metrosonics

Model No.: db-3080

S/N: 5093

Submitted by,

Permissible Sound Level Meter

Company: Skelly & Loy, Inc.

Test	Function	Tole	rance		Meas	ured v	alues	
		Min	Max		Before	Out	After	Out
,0.	SPL Reading with 102.0dB SPL	101.4	102.6		102.0		102.0	
,1.	Level Accuracy	93.4	94.6	94dB	94.4		94.4	
	•	103.4	104.6	104dB	104.4		104.4	
		113.4	114.6	114dB	114.4		114.4	
,2.	Frequency Response	88.0	97.8	8kHz	95.0		95.0	
•	A Weighting	92.1	97.9	4kHz	97.2		97.2	
		93.3	97.1	2kHz	95.9		95.9	
		92.6	95.4	1kHz	94.4		94.4	
		89.4	92.2	500Hz	91.3		91.3	
		84.0	86.8	250Hz	85.8		85.8	
		76.5	79.3	125Hz	78.4		78.4	
		65.9	69.7	63Hz	68.3		68.3	
		51.8	57.5	31.5Hz	56.4		56.4	
	C Weighting	86.1	95.9	8kHz	94.8		94.8	
		90.3	96.1	4kHz	95.7		95.7	
		91.9	95.7	2kHz	94.7		94.7	
		92.6	95.4	1kHz	94.7		94.7	
		92.6	95.4	500Hz	94.8		94.8	
		92.6	95.4	250Hz	94.8		94.8	
		92.4	95.2	125Hz	94.8		94.8	
		91.3	95.1	63Hz	94.3		94.3	
		88.2	93.9	31.5Hz	91.9		91.9	
,3								
	SLM	113.4	114.6		114.0		114.0	
	L avg. / Leq	113.4	114.6		114.0		114.0	
	L max.	113.4	114.6		114.1		114.1	
	L pk	116.1	117.9		117.6		117.6	
	Dose %							
	0.18% @ 94 dB 1kHz	0.14%	0.22%		0.18%		0.18%	
	0.73% @ 104 dB 1kHz	0.58%	0.88%	l l	0.82%		0.82%	
	2.90% @ 114 dB 1kHz	2.32%	3.48%	-	3.12%		3.12%	
4	Inherent noise level				51.1		51.1	

DB3080METR_5093_Jun-02-2020

	Test Instrumentation	DUT	Total DUT
Parameter	Uncertainty	Uncertainty	Uncertainty
Acoustic Level ([114 & 94] dB @ 1 kHz):	0.2	0.1	0.30
Meter linearity (Attenuation Generation):	0.46	0.1	0.56
Attenuator accuracy (Attenuation Measure):	0.46	0.1	0.56
Acoustic Freq. Response: 63 Hz to 8 kHz	0.2	0.1	0.30
Inherent noise level:	0.3	0.1	0.40
Functions:	0.2	0.1	0.30
Sensitivity:	0.2	0.1	0.30
Dose:	0.33	0.1	0.43

Calibration Date: 2-Jun-2020

Measurements performed by:

Matthew Smith

Certificate of Conformance

ACOUSTICAL CALIBRATOR

Manufactured by:

METROSONICS

Model No:

CL304

Serial No:

4480

Calibration Recall No:

30971

Submitted By:

Customer:

ALAN J. DUNAY

Company:

SKELLY & LOY, INC.

Address:

449 EISENHOWER BLVD., STE. 300

HARRISBURG

PA 17111

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No.

CL304

METR

Upon receipt for Calibration, the instrument was found to be:

Within

(X)

tolerance of the indicated specification. See attached Report of Calibration.

The information supplied relates to the calibrated item listed above and statment of conformance for ALL given specifications and standards fall under the decision rule: A=(L-(U95)), where A is acceptance limit, L is manufacturer specifications and U95 is confidence level of 95% at k=2. This includes but not limited to:1. Measured value does not meet manufacturer's tolerance, 2. Manufacturer's tolerance is too small compared to calibration and measurment capability uncertainties, 3. Test uncertainty ratio does not meet the 4:1 ratio due to test instrumentation limitations. The decision rule has been communicated and approved by customer during contract

West Caldwell Calibration Laboratories' calibration control system meets the following requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2015, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date:

02-Jun-20

Certificate No:

30971 - 5

QA Doc. #1051 Rev. 3.0 5/29/20

Certificate Page 1 of 1

West Caldwell Calibration uncompromised calibration Laboratories. Inc.

1575 State Route 96, Victor, NY 14564, U.S.A.

James Zhu Quality Manager

ISO/IEC 17025:2017

West Caldwell Calibration uncompromised calibration Laboratories. Inc.

ISO/IEC 17025: 2017 Calibration Lab. Cert. # 1533.01

1575 State Route 96, Victor NY 14564

REPORT OF CALIBRATION

Metrosonics Acoustical Calibrator Company: Skelly & Loy, Inc.

Model No.: CL304

Serial No.: 4480

I. D. No.: XXXX

Calibration results:

Before data: After data:

Before & after data same: ...X.....

Sound Pressure Level at 1000.3 Hz and pressure of 1013 hPa (mbar)

Laboratory Environment:

°C 21.8

was 101.83 dB re 20µPa

Ambient Temperature: Ambient Humidity:

Sound Pressure Level:

Pass

40.6 Ambient Pressure: 99.362 % RH kPa

Pass

Calibration Date: 2-Jun-2020

Frequency: Distortion:

Pass

Calibration Due: 2-Jun-2021

Stability:

Pass

Report Number:

30971 -5

All tested parameters:

Pass

Control Number:

30971

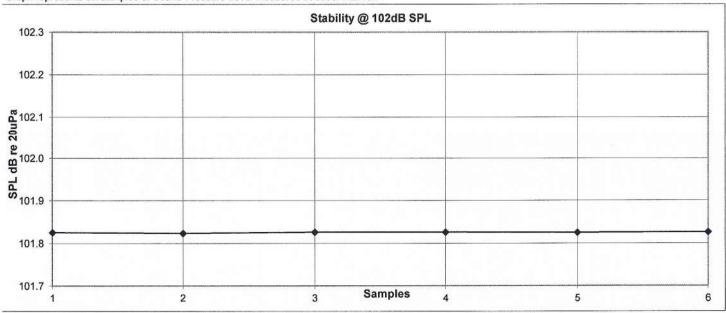
The above listed instrument meets or exceeds the tested manufacturer's specifications.

This Calibration is traceable through NIST test numbers:

684.07/O-0000001126-20

The absolute uncertainty of calibration: See last page. Unless otherwise noted, the reported values are both "as found" and "as left" data.

Graph represents six samples of Sound Pressure Level measured at 5sec. interval.



The above listed instrument was checked using calibration procedure documented in West Caldwell

Calibration Laboratories Inc. procedure :

Rev. 7.0 Jan. 24, 2014 Doc. # 1038 CL304METR

Calibration was performed by West Caldwell Calibration Laboratories Inc. under Operating Procedures

intended to implement the requirements of ISO10012-1, IEC Guide 25, ANSI/NCSL Z540-1, (MIL-STD-45662A), ISO 9001:2015 and ISO 17025

Cal. Date:

2-Jun-2020

Matthew Smith

Calibrated on WCCL system type 9700

Rev. 7.0 Jan. 24, 2014 Doc. # 1038 CL304METR

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West Caldwell Calibration Laboratories Inc.

1575 State Route 96, Victor NY 14564 Tel. (585) 586-3900 FAX (585) 586-4327

Calibration Data Record

Metrosonics Acoustical Calibrator

Model No.: CL304

Serial No.: 4480

Company: Skelly & Loy, Inc.

All tested parameters: Pass

Measured Sound Pressure Level (Six samples measured at 5 sec. interval)

101.83 dB re 20µPa Sample 1 2 101.82 3 101.83 4 101.83 5 101.82 6 101.83

Spec. 102dB ± 0.3dB Average 101.83

Frequency measured (Three samples at 30 sec. Interval)

Sample 1 1000.33 Hz

2 1000.30 3 1000.32

Average 1000.32 Spec. 1000Hz ± 2.0%

Distortion measured

-38.5 dB

Spec. ≤-34dB

Total DUT

Uncertainty 0.28

The expanded uncertainty of calibration at 95% confidence level with a coverage factor of k=2.

Test Instrumentation DUT Uncertainty Parameter Uncertainty

Acoustic Level ([114 & 94] @ 1 kHz): 0.18 0.1

Frequency Measure (DC to 10 MHz): 6.0 parts in [10^6] Hz

struments used for c	alibration:		Date of Cal.	Traceability No.	Re-cal. Due Date
Brüel & Kjær	4231	S/N 2205492	10-Jul-2019	684.07/O-0000001126-20	10-Jul-2020
Brüel & Kjær	4134	S/N 173494	1-Jul-2019	684.07/O-0000001126-20	1-Jul-2020
Brüel & Kjær	2669	S/N 1835080	8-Jul-2019	684.07/O-0000001126-20	8-Jul-2020
HP	34401A	S/N US361009	3-Jul-2019	,1010733	3-Jul-2020
Brüel & Kjær	2636	S/N 1487493	10-Jul-2019	684.07/O-0000001126-20	10-Jul-2020

Cal. Date: 2-Jun-2020

Tested by: Matthew Smith

Calibrated on WCCL system type 9700

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Rev. 7.0 Jan. 24, 2014 Doc. # 1038 CL304METR

APPENDIX B - TRAFFIC DATA

Van Buren Monitoring Traffic

Run	Roadway/Direction	Speed	20 Min Light	20 Min Medium	20 Min Heavy	Hour Light	Hour Medium	Hour Heavy
1	95 SB	65-70	1134	38	162	3402	114	486
1	95 Hot Lane	65-70	180	8	0	540	24	0
1	95 NB	65-70	1120	46	178	3360	138	534
1	Cardinal DR WB Thru	45	104	4	0	312	12	0
1	Cardinal DrR WB RT to Benita Fitzgeral Dr	45	24	0	0	72	0	0
1	Cardinal DR WB LT to Van Buren Rd	45	1	0	0	3	0	0
1	Cardinal DR EB Thru	45	120	4	0	360	12	0
1	Cardinal DR EB LT to Benita Fitzgeral Dr	45	92	0	0	276	0	0
1	Cardinal DR EB RT to Van Buren Rd	45	2	0	0	6	0	0
1	Van Buren NB Thru	25	4	0	0	12	0	0
1	Van Buren NB RT to Cardinal EB	25	1	0	0	3	0	0
1	Van Buren NB LT to Cardinal WB	25	0	0	0	0	0	0
1	Benita Fitzgerald Thr	45	8	2	0	24	6	0
1	Benita Fitzgerals Dr SB RT to Cardinal DR WB	45	52	0	0	156	0	0
1	Benita Fitzgerals Dr SB LT to Cardinal DR EB	45	30	4	0	90	12	0
1	Cardinal DR WB Depart	45	156	4	0	468	12	0
1	Cardinal DR EB Depart	45	151	8	0	453	24	0
1	Van Buren Rd SB Depart	45	11	2	0	33	6	0
1	Benita Fitzgerald Dr NB Depart	45	120	0	0	360	0	0
2	95 SB	65-70	1434	30	100	4302	90	300
2	95 SB Hot Lane	65-70	126	0	0	378	0	0
2	95 NB	65-70	1020	42	122	3060	126	366
2	Van Buren Rd SB Thru	25	6	0	0	_	0	0
2	Van Buren Rd SB RT	25	10	6	0	30	18	0
2	Van Buren Rd SB LT	25	28	1	2	84	3	6
2	Dumfries RD WB Thru	50	330	20	22	990	60	66
2	Dumfries RD WB RT	50	2	0	0	6	0	0
2	Dumfries RD WB LT	50	98	0	0	294	0	0
2	Dumfries RD EB Thru	50	358	16	28	1074	48	84
2	Dumfries RD EB RT	50	110	0	0		0	0
2	Dumfries RD EB LT	50	2	0	0	6	0	0
2	Van Buren Rd NB Thru	25	20	0	0	60	0	0
2	Van Buren Rd NB RT	25	48	1	1	144	3	3
2	Van Buren Rd NB LT	25	124	2	1	372	6	3
2	Dumfries RD EB Depart	50	492	24	29	1476	72	87
2	Dumfries RD WB Depart	50	388	27	23	1164	81	69
2	VanBuren NB Depart	25	24	0	0		0	0
2	Van Buren SB Depart	25	214	0	0	642	0	0

LHD Loudest Hour Determination Tool



LHD | Loudest Hour Determination

FINAL ADJUSTED FREE FLOW SPEEDS

		EXISTING			NO-BUILD			BUILD	
Time	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)
0:00	71.0	46.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
1:00	71.0	46.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
2:00	71.0	45.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
3:00	71.0	45.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
4:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
5:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
6:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
7:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
8:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
9:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
10:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
11:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
12:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
13:00	71.0	43.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
14:00	71.0	41.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
15:00	71.0	36.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
16:00	71.0	31.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
17:00	71.0	31.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
18:00	71.0	32.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
19:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
20:00	71.0	44.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0

21:00	71.0	45.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
22:00	71.0	45.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0
23:00	71.0	45.0	0.0	1.0	1.0	1.0	71.0	1.0	1.0

TRAFFIC INPUTS FOR WORST CASE NOISE HOUR CALCUATION

		EXISTING					NO-BUILD					BUILD						
Time		EB or NE	3		WB or SE	}		EB or NB			WB or SB	1		EB or NB		,	WB or SB	
	Autos	Med	Heavy	Autos	Med	Heavy	Autos	Med	Heavy	Autos	Med	Heavy	Autos	Med	Heavy	Autos	Med	Heavy
0:00	13.0	0.0	0.0	18.0	0.0	0.0	14.0	0.0	0.0	19.0	0.0	0.0	46.9	0.0	0.0	64.9	0.1	0.1
1:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00	13.0	0.0	0.0	18.0	0.0	0.0	14.0	0.0	0.0	18.0	0.0	0.0	47.9	0.0	0.0	62.9	0.1	0.1
5:00	26.9	0.0	0.0	35.9	0.0	0.0	27.9	0.0	0.0	37.9	0.0	0.0	95.8	0.1	0.1	127.7	0.1	0.1
6:00	39.9	0.0	0.0	56.9	0.1	0.1	40.9	0.0	0.0	57.9	0.1	0.1	137.7	0.1	0.1	197.6	0.2	0.2
7:00	50.9	0.1	0.1	76.8	0.1	0.1	52.9	0.1	0.1	79.8	0.1	0.1	177.6	0.2	0.2	268.5	0.3	0.3
8:00	61.9	0.1	0.1	97.8	0.1	0.1	63.9	0.1	0.1	100.8	0.1	0.1	217.6	0.2	0.2	340.3	0.3	0.3
9:00	61.9	0.1	0.1	97.8	0.1	0.1	63.9	0.1	0.1	100.8	0.1	0.1	217.6	0.2	0.2	340.3	0.3	0.3
10:00	61.9	0.1	0.1	97.8	0.1	0.1	63.9	0.1	0.1	100.8	0.1	0.1	217.6	0.2	0.2	340.3	0.3	0.3
11:00	63.9	0.1	0.1	95.8	0.1	0.1	65.9	0.1	0.1	98.8	0.1	0.1	222.6	0.2	0.2	334.3	0.3	0.3
12:00	78.8	0.1	0.1	113.8	0.1	0.1	81.8	0.1	0.1	116.8	0.1	0.1	275.4	0.3	0.3	395.2	0.4	0.4
13:00	93.8	0.1	0.1	129.7	0.1	0.1	96.8	0.1	0.1	133.7	0.1	0.1	327.3	0.3	0.3	453.1	0.5	0.5
14:00	95.8	0.1	0.1	127.7	0.1	0.1	98.8	0.1	0.1	131.7	0.1	0.1	335.3	0.3	0.3	445.1	0.4	0.4
15:00	98.8	0.1	0.1	125.7	0.1	0.1	101.8	0.1	0.1	129.7	0.1	0.1	343.3	0.3	0.3	437.1	0.4	0.4
16:00	117.8	0.1	0.1	137.7	0.1	0.1	121.8	0.1	0.1	142.7	0.1	0.1	410.2	0.4	0.4	481.0	0.5	0.5
17:00	120.8	0.1	0.1	135.7	0.1	0.1	124.8	0.1	0.1	139.7	0.1	0.1	420.2	0.4	0.4	473.1	0.5	0.5
18:00	120.8	0.1	0.1	135.7	0.1	0.1	124.8	0.1	0.1	139.7	0.1	0.1	420.2	0.4	0.4	473.1	0.5	0.5
19:00	102.8	0.1	0.1	121.8	0.1	0.1	105.8	0.1	0.1	124.8	0.1	0.1	359.3	0.4	0.4	422.2	0.4	0.4
20:00	71.9	0.1	0.1	87.8	0.1	0.1	73.9	0.1	0.1	90.8	0.1	0.1	251.5	0.3	0.3	306.4	0.3	0.3

21:00	41.9	0.0	0.0	53.9	0.1	0.1	43.9	0.0	0.0	54.9	0.1	0.1	147.7	0.1	0.1	187.6	0.2	0.2
22:00	26.9	0.0	0.0	35.9	0.0	0.0	27.9	0.0	0.0	37.9	0.0	0.0	95.8	0.1	0.1	127.7	0.1	0.1
23:00	13.0	0.0	0.0	18.0	0.0	0.0	14.0	0.0	0.0	18.0	0.0	0.0	47.9	0.0	0.0	62.9	0.1	0.1

LHD | Loudest Hour Determination Tool (Ver. 2020-WA1.0); Compatible with ENTRADA Ver. 2020-WA1.0

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LHD Loudest Hour Determination Tool



LHD | Loudest Hour Determination

50 ft Test Receiver (Existing, No-Build, Build)

Time		EXISTING			NO-BUILD		BUILD			
Time	EB/NB	WB/SB	2 Way	EB/NB	WB/SB	2 Way	EB/NB	WB/SB	2 Way	
Hour	17:00	19:00	19:00	17:00	16:00	16:00	17:00	16:00	16:00	
Leq	60.8	54.1	61.1	53.2	53.8	56.4	66.2	59.0	66.9	

LHD | Loudest Hour Determination Tool (Ver. 2020-WA1.0); Compatible with ENTRADA Ver. 2020-WA1.0

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Inputs
1. Purpose of Analysis:
                                                                3-Scenario: Existing, Interim & Design
1a. Period:
                                                                24-hour
1b. Segment Length (mi.):
2. Is the Analysis Segment Signalized:
                                                                Yes
2a. Does it Remain Signalized After Project Completion:
                                                                Yes
3. Analysis Facility Name & Number
                                                                Van Buren Road
3a. Area Type:
                                                                Suburban
4. Project Title/Proj. Number/UPC Number:
                                                                Van Buren Road Extension
4a. Analysis Segment Begining:
                                                                Dumfries Road (Route 234)
4b. Facility Direction
                                                                North-South
4c. Analysis Segment Ending:
                                                                Cardinal Drive
4d. Reverse Direction
5. VDOT District:
                                                                Northern_Virginia
                                                                Prince William Co
5a. Jurisdiction:
5b. Terrain:
                                                                Level
6. Name/Year 1-3
                                                                Existing | 2020
                                                                                                       Interim | 2025
                                                                                                                                        Design | 2040
                                                                                                       Major Collector with PS>35 mph
                                                                                                                                        Major Collector with PS>35 mph
7. Analysis Facility Type (FT):
                                                                Local
8. Facility Cross Section:
                                                                Undivided
                                                                                                       Divided
                                                                                                                                        Divided
9. Posted Speed (PS, mph):
                                                                25
                                                                                                       45
                                                                                                                                        45
11. Number of Lane (bound-A | bound-B):
                                                                1|1
                                                                                                       2|2
                                                                                                                                        2|2
12. Lane Width (ft.):
                                                                12
                                                                                                       12
                                                                                                                                        12
13. Shoulder Width (Inside|Outside):
                                                                0|2.0
                                                                                                       0|2.0
                                                                                                                                        0|2.0
14. Access Density (# of access/mi.):
                                                                3
                                                                                                       3
15. Analysis Segment No. of Signals:
                                                                140
                                                                                                       140
                                                                                                                                        140
16. Average Cycle Length (sec.):
17. Average Green Time per Cycle (sec.):
                                                                13
                                                                                                       30
                                                                                                                                        30
18. Signal Coordination:
                                                                No Coordination
                                                                                                       No Coordination
                                                                                                                                        No Coordination
Note
19. Volume-Delay Function (Travel-Time Model):
                                                                BPR Model (Noise Study)
20. Truck Input Type:
                                                                Daily
                                                                                                                                        2
20a. Daily (%):
21. Eastbound ADT or AADT :
                                                                3200
                                                                                                       10240
                                                                                                                                        11180
21a. Is No-build Condition Eastbound ADT or AADT Available:
                                                                                                                                        3300
                                                                Yes
                                                                                                       3300
                                                                1. Demand Speed & Volume
22. Interim & Design - Build & No-Build Traffic Assignment:
22a. Is Current Hourly Speed Available
                                                                No
22b. User Initial:
                                                                WFI
23. Apply Existing K & D Factors to the Interim and Design Year:
                                                                Yes
23b. Apply Existing Hourly % Truck to Interim and Design:
                                                                Yes
25. K & D factors, Truck Data and Existing Speed:
                                                                                                                                        A bound % Truck: 2X-6T
                                                                                                                                                                         A bound % Tri B bound % Tri B bound % Tri A bound Exist B bound Exist Interim year K Desgin year K Interim year E Desgin year D Interim Truck Design Truck
Starting Time
                                                                K-factor
                                                                                                       D-factor
                                                                0.00501
                                                                                                       0.37243
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8:00
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11:00
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Table
Summary of Peak Hour Traffic Volumes (Bi-Directional)

	20	20		20	25		2040			
	Exis	ting	No I	Build	Bu	ild	No I	Build	Bu	ıild
Roadway Link	AM	PM								
Dumfries Road (West of Van Buren Road)	4,717	4,506	3,892	5,082	3,824	5,932	5,060	6,535	4,893	7,231
Dumfries Road (East of Van Buren Road)	4,619	4,196	3,729	4,857	3,290	4,954	4,897	6,310	4,317	6,254
Van Buren Road (South of Dumfries Road)	943	1,357	785	1,383	1,325	1,936	785	1,383	1,514	2,145
Cardinal Drive (West of Benita Fitzgerald Drive)	1,416	1,994	928	1,817	1,240	2,578	1,095	2,072	1,365	2,771
Cardinal Drive (East of Benita Fitzgerald Drive)	1,350	2,067	885	1,409	1,154	1,988	1,052	1,664	1,265	2,182
Benita Fitzgerald Drive (North of Cardinal Drive)	1,308	1,632	816	1,752	1,070	2,336	816	1,752	1,149	2,437

		_		Van Buren	
PM Peak	ENTRADA 2040 Output 16:00	2040	Cars	Mt	Ht
	EB/SB	410	402	4	4
	WB/NB	482	472	5	5
				1%	1%

Extension Road

2040 Build: 130 AM Peak Hour/**483 PM Peak Hour/**4,830 ADT

2025 Build: 126 AM Peak Hour/477 PM Peak Hour/4,770 ADT

	195 SB 2035	195 NB 2035	2035 Hot Lane		
Cars	4812	3889	1555] ·	Taken From UPC 70849 Hot Lane I
MT	107	38	8		
HT	194	286	3		
	195 SB 2040	195 NB 2040	2040 Hot Lane		
Cars	195 SB 2040 5313	195 NB 2040 4294			6 growth rate
Cars MT					6 growth rate



APPENDIX C - HB 2577 DOCUMENTATION



July 22, 2021

Virginia Department of Transportation Attn: LJ Muchenje, PE Environmental Division, Noise Abatement 1401 E. Broad Street Richmond, VA 23219

RE: UPC 118643 Van Buren Road North Extension From Route 234 (Dumfries Road) to Cardinal Drive

Dear Mr. Muchenje,

The 2009 General Assembly passed Chapter 120 (HB 2577, as amended by HB2025), which amends the Code of Virginia by adding in Article 15 of Chapter 1 of Title 33.1 a section numbered 33.1-223.2:21, relating to highway noise abatement.

House Bill 2025 States: Requires that whenever the Commonwealth Transportation Board or the Department plan for or undertake any highway construction or improvement project and such project includes or may include the requirement for the mitigation of traffic noise impacts, first consideration should be given to the use of noise reducing design and low noise pavement materials and techniques in lieu of construction of noise walls or sound barriers. Vegetative screening, such as the planting of appropriate conifers, in such a design would be utilized to act as a visual screen if visual screening is required.

In an effort to honor the intent of HB 2025 Prince William County Department of Transportation is providing our input (per <u>Chapter VI of Materials Division's Manual of Instruction</u> and <u>Section 2B-3 Determination of Roadway Design</u> of the VDOT Road Design manual (pages 2B-5 and 2B-6)). As part of the Noise Technical Report and technical files, we are providing comments for the project noted above.

Should you have any questions, please contact me at (703) 792-6822. Thank you for your time and consideration regarding this request.

Sincerely,

Sherry Djouharian Project Manager

Prince William County Department of Transportation

Enclosure: Comment Responses

Comment Responses:

Comment:

Is noise reducing design feasible in lieu of construction of noise walls or sound barriers? For example, the roadway alignment can be shifted away from noise sensitive receptors, or the roadway can be placed in deep cut.

Response:

Significant noise studied with the noise analysis are associated with I-95 and local roads other than proposed Van Buren Road. Noise reducing design including horizontal and vertical shifts to the Van Buren Road North Extension alignment would thus not be applicable to improving noise conditions for the corridor. Aligning Van Buren Road as close to I-95 as possible has already been incorporated in order to reduce the likelihood of noise impacts to the nearby neighborhoods. (Sherry Djouharian, Project Manager, Prince William County Department of Transportation.)

Comment:

Can the project support the use of low noise pavement in lieu of construction of noise walls or sound barriers?

Response:

The Virginia Department of Transportation is not authorized by the Federal Highway Administration to use "quiet pavement" at this time as a form of noise mitigation. Upon completion of the Quiet Pavement Pilot Program and approval from FHWA, the use of "quiet pavement" will be given additional consideration. (Sherry Djouharian, Project Manager, Prince William County Department of Transportation.)

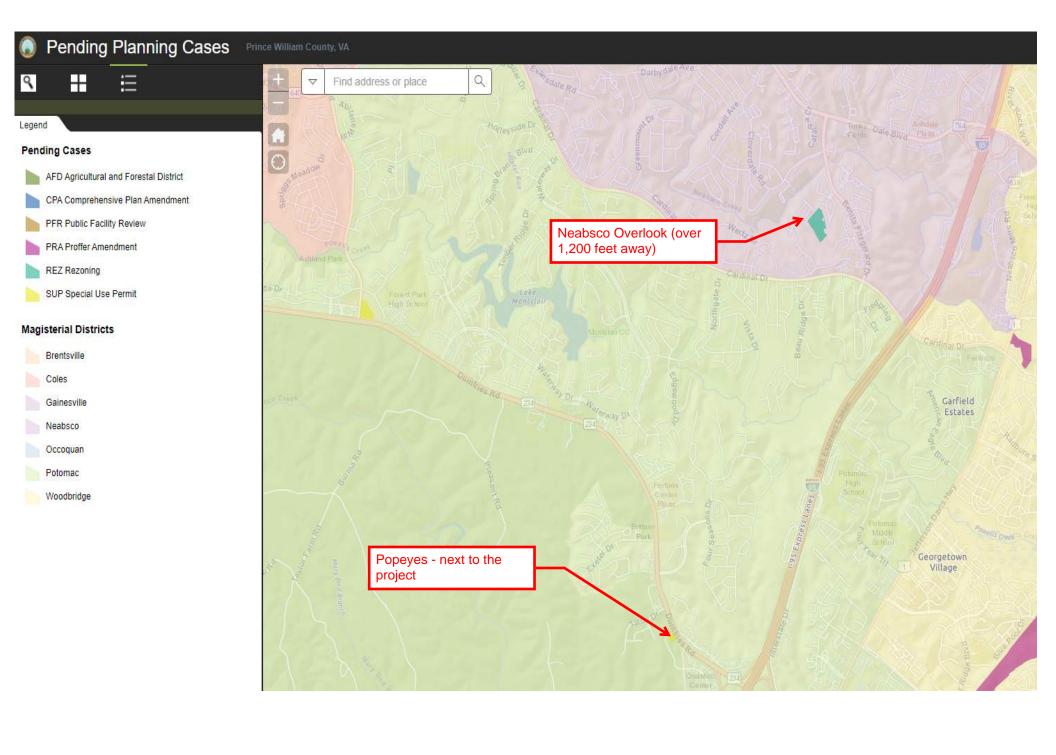
Comment:

Can landscaping be utilized to act as a visual screen if visual screening is required? (Location & Design to address)

Response:

No landscaping to provide a visual screen is presently proposed as part of the project. Landscaping could be used as a visual screen if it is required but would be limited by project design constraints, including deep cuts required to construct the project. The landscaping must be placed outside of the clear zone, must not decrease driver sight distance, and must not require additional right of way. (Sherry Djouharian, Project Manager, Prince William County Department of Transportation.)

APPENDIX D - UNDEVELOPED LANDS



APPENDIX E - WARRANTED, FEASIBLE, AND REASONABLE WORKSHEETS

VDOT Highway Traffic Noise Abatement Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

project.	
Date:	7/26/21
Project No. and UPC:	Van Buren Road Extension, UPC: 118643
County:	Prince William County
District:	Northern Virginia
Barrier System ID:	Barrier C1
Community Name and/or CNE#	CNE C
Noise Abatement Category(s)	В
Design phase:	Preliminary design

	Warranted	
1 a.	Community Documentation (if applicable) Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	NA
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	NA
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer "no" to warranted question. As the reason for this decision, state that "Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate."	
		No
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	
		Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

	Feasibility	
1	Impacted receptor units	
a.	Number of impacted receptor units:	11
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	3
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	27%
d.	Is the percentage 50 or greater?	No
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	No
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	No
4	Will placement of the noise barrier conflict with existing utility locations?	No

	Reasonableness	
1	Surface Area (Square foot)-Benefit Factors	
a.	Surface Area (Total square foot) of the proposed noise barrier. (ft ²)	66,632 SF
b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	3
c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	6
d.	Total number of benefited receptors.	9
e.	Surface Area per benefited receptor unit. (ft²/BR)	7,404 SF/BR
f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	No
g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes
2	Additional Noise Barrier Details	
a.	Length of the proposed noise barrier. (ft)	2,221 ft
b.	Height range of the proposed noise barrier. (ft)	30-30 ft
c.	Average height of the proposed noise barrier. (ft)	30.0 ft
d.	Cost per square foot. (\$/ft ²)	\$42/SF
e.	Total Barrier Cost (\$)	\$2,798,544
f.	Barrier Material	NA
3	Community Desires Related to the Barrier Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."	

Decision	
Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	No
Is the Noise Barrier(s) REASONABLE?	No
Additional Reasons for Decision:	

VDOT Highway Traffic Noise Abatement Warranted, Feasible, and Reasonable Worksheet Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.										
Date:	7/26/21									
Project No. and UPC:	Van Buren Road Extension, UPC: 118643									
County:	County: Prince William County									
District:	Northern Virginia									
Barrier System ID:	Barrier D1									
Community Name and/or CNE#	CNE D									

В

Preliminary design

Noise Abatement Category(s)

Design phase:

	Warranted	
1 a.	Community Documentation (if applicable) Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	NA
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	NA
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer "no" to warranted question. As the reason for this decision, state that "Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate."	
		No
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	
		Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

	Feasibility	
1	Impacted receptor units	
a.	Number of impacted receptor units:	7
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	0
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	0%
d.	Is the percentage 50 or greater?	No
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	No
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	No
4	Will placement of the noise barrier conflict with existing utility locations?	No

	Reasonableness	
1	Surface Area (Square foot)-Benefit Factors	
a.	Surface Area (Total square foot) of the proposed noise barrier. (ft ²)	34,544 SF
b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	0
c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	2
d.	Total number of benefited receptors.	2
e.	Surface Area per benefited receptor unit. (ft²/BR)	17,272 SF/BR
f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	No
g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	No
2	Additional Noise Barrier Details	
a.	Length of the proposed noise barrier. (ft)	1,151 ft
b.	Height range of the proposed noise barrier. (ft)	30-30 ft
c.	Average height of the proposed noise barrier. (ft)	30.0 ft
d.	Cost per square foot. (\$/ft ²)	\$42/SF
e.	Total Barrier Cost (\$)	\$1,450,848
f.	Barrier Material	NA
3	Community Desires Related to the Barrier Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise	
	barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."	

Decision	
Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	No
Is the Noise Barrier(s) REASONABLE?	No
Additional Reasons for Decision:	

APPENDIX F - NOISE REPORT GUIDANCE AND ACCOUNTABILITY CHECKLIST

VIRGINIA DEPARTMENT OF TRANSPORTATION NOISE REPORT GUIDANCE AND ACCOUNTABILITY CHECKLIST

VERSION 3.0

This checklist is not an inclusive document that accounts for all projects. However this guidance checklist outlines the most common items that will be reviewed during VDOT's review process. This checklist follows guidance set forth in VDOT's Highway Traffic Noise Manual.

Checked Items are Required

Preliminary Final Design

UPC:
Completed By:

Date:

TBD
Skelly and Loy/W Kaufell
6/30/2021

N/A D This Item has been verified by the document writer
This item is "Not/Applicable" to this project
This Item is Project Dependent

1.0 TITLE PAGE

- 1.1 X V Report is Appropriately Named, with Correct Project Limits, Project Number(s), UPC(s) (Universal Project Code), and Submission Date
- **1.2 X** ✓ Person Performing the Noise Analysis is Prequalified in the State of Virginia

2.0 TABLE OF CONTENTS (TOC)

2.1 X - Items listed in TOC are Accurately Numbered, Including the Report Sections, Tables, Figures, Graphics, and Appendices

3.0 EXECUTIVE SUMMARY

- 3.1 X Brief Project Description provided with Project Location Information
- 3.2 X Summary of the Number (and sound level ranges) of Impacts for Existing, No-Build (if applicable), and the Future Design Year
- 3.3 X Noise Abatement Summary and Barrier Analyses Summary (If Future Design Year Impacts are Predicted)
- **3.4 X** ✓ "Conversely . . . " Statement Added
- 3.5 X ✓ ✓ Construction Noise Summary
- 2. Discussion of Futher Noise Abatement Considerations during Final Design eg. Rail noise, Aviation noise, Reflected Noise from Existing or Proposed Barriers / Retaining Walls, Commitments for further evaluation based on new design information, Alternatives to proposed noise barrier placement. . .

4.0 INTRODUCTION

4.1 \(\times \) Discussion of the Project Description of the Proposed Project. Should include the Project Limits, Number of Proposed Lanes and/or Proposed

Checked	nary	sign	UPC:	106689/109790	×	This Item has been verified by the document writer
Items are	imir	De	Completed By:	Skelly and Loy/W Kaufell	N/A	This item is "Not/Applicable" to this project
Required	Prel	Final	Date:	10/10/2018	D	This Item is Project Dependent
		F				

iviodification, Lane volutins etc . . .

4.2 X - Discussion of the History of the Project, Background, Future Design Year, Specific Pertanent Project Details, Including the Preferred Alternative and other Road Improvements.

Checked Items are Required		Preliminary	Final Design	UPC: Completed By: Date:	106689/109790 Skelly and Loy/W Kaufell 10/10/2018	N/A D	This Item has been verified by the document writer This item is "Not/Applicable" to this project This Item is Project Dependent		
4.3									
4.4	X	D	D	- Additional NEPA docur	mentation (If Necessary - Documents to sup	oport an older ROD	or Date of Public Knowledge)		
5.0	MET	HOD	OLO	GY					
5.1	X	✓	✓	- FHWA and State Police	y Discussion and Compliance Regulations				
5.2	X	✓	✓	- Sound Level Metrics D	efined				
5.3	X	√		- NAC Defined					
5.4	X	√		- Definiton of Noise Imp					
5.5	X	✓	✓	- Analysis Proceedure D	efined				
5.6	X	✓	✓	- TNM Model Version D	efined and Program Overview Description ខ្	given			
	Sour	ce of I	Mode	l Inputs Documented					
5.7	X	✓	✓	- Discussion of the Sour	ce of Design Files / Typical Sections/ Profile	s / Cross Sections, o	or Study Corridor Limits if Engineering is not Available		
5.8	X	✓	✓	- Discussion of Traffic Vo	olumes / Speeds / Truck %'s				
5.9	X	✓	✓	- Document the Source	of Survey Information				
5.10	X	D	D	- Additional Data (Existr	ng or Proposed Retaining Walls, Existing No	ise Barriers or Berm	s, GIS Layers and/or Supplemental Elevation Data)		
6.0	EXISTING NOISE ENVIRONMENT								
6.1	NOISE MONITORING								
6.1.1	X	✓	✓	- Noise Monitoring Met	hodology is Clearly Defined				
6.1.2	X	✓ ✓ - The Date(s) of Monitoring are Documented							
6.1.3	X	✓ ✓ - Type of Meter is Noted and Pertainent Calibration Information is Included							

Checked	nary	sign	UPC:	106689/109790	*	This Item has been verified by the document writer
Items are	imir	l De	Completed By:	Skelly and Loy/W Kaufell	N/A	This item is "Not/Applicable" to this project
Required	Pre	Fina	Date:	10/10/2018	D	This Item is Project Dependent

6.1.4 X ✓ · Number of Sites (Short-term or Long-term) are Identified and Located on Figure

Checked Items are Required		Preliminary	Final Design	UPC: Completed By: Date:	106689/109790 Skelly and Loy/W Kaufell 10/10/2018	N/A D	This Item has been verified by the document writer This item is "Not/Applicable" to this project This Item is Project Dependent	
6.1.5	X	✓	✓	- Documentation of Noi	se Monitoring Data Sheets and other mo	nitoring factors such s	ampling interval, weather	
6.1.6	X	✓	✓	- Table and Discussion of	of Ambient Noise Monitoring Results and	Required Sample Text	Regarding Monitoring	
6.1.7	X	✓	✓	- Table and Discussion o	of Noise Validation Results			
6.2	UND	EVELC	PED	LANDS AND PERMITTI	ED DEVELOPMENTS			
6.2.1	X	✓	✓	- "Undeveloped Lands a	and Permitted Developments" Sample Tex	kt Added		
6.2.2	X	✓	✓	- Documentation of the	Coordination Dates and Contact Informa	tion for the Undevelo	ped Lands and Permitted Developments Search	
6.3	СОМ	MON	NOIS	SE ENVIRONMENT (CN	E) DETERMINATION			
6.3.1	X	✓	✓	- Are all Noise Sensitive	Receptors within at least 500 feet of the	Proposed Edge of Pav	rement Considered for Evaluation?	
6.3.2	X	✓	✓	- Discussion of Existing	Land Uses for each CNE			
6.3.3	X	✓	✓	- Are all non noise sensi	tive land uses addressed in the report (re	easons why they are no	ot noise sensitive)?	
6.3.4	X	✓	✓	- CNE's Boundaries Loca	ated on Figure			
6.4	WOR	ST NO	DISE I	HOUR				
6.4.1	X	✓	✓	- The Worst Noise Hour	selected needs to be the same for ALL ro	padways. Review to er	nsure this is accurate.	
6.4.2	X	✓	✓	- Discussion of the Selec	ction of the Worst Noise Hour			
6.4.3	X	✓	✓	- Was 24-Hour (Long Te	rm Monitoring) Utilized to Determine the	e Worst Noise Hour		
6.4.4	X	D	D - State if Multiple Sets of TNM runs were Created / Modeled to Determine the Worst Noise Hour (or were there dual worst noise hours)					

Checked		rary	UPC:	106689/109790	×	This Item has been verified by the document writer
Items are			Completed By:	Skelly and Loy/W Kaufell	N/A	This item is "Not/Applicable" to this project
Required		rel	Date:	10/10/2018	D	This Item is Project Dependent
	L	4	·			,

6.4.5 X D D - Were other Factors Considered for the Selection of the Worst Noise Hour

6.5 RECEPTOR IDENTIFICATION AND NAC CATEGORIZATION

If NAC A's are present, is the Criteria met and the Items Listed Below are Discussed:

6.5.1 D Serenity and Quiet - The site under consideration meets the serenity and quiet criterion if the current Leq noise level does not approach or exceed the Activity Category A Noise Abatement Criterion (NAC) during any period when serving its intended purpose.

			-										
Checked		Preliminary	Final Design	UPC:	106689/109790		×	This Item has been verified by the document writer					
Items are		imi	II De	Completed By:	Skelly and Loy/W Kaufell		N/A	This item is "Not/Applicable" to this project					
Required		Pre	Fina	Date:	10/10/2018		D	This Item is Project Dependent					
6.5.2		D	D	Public Need - The site under consideration provides an important benefit of the public visiting or using the site due to its historical, religious,									
				cultural, or natural sign	nificance								
6.5.3		D	D	Intended Purpose - Is t	he Preservation of Serenity and Quiet Es	sential to Co	ontinue to	Serve its Intended Purpose					
6.5.4		D	D	- Frequent Human Use -	· Can the public can access the site during	g all times w	hen it is av	vailable and able to serve its intended purpose?					
6.5.5		D	D		ng Documentation Included								
0.5.5													
	If NA	C B's	are pi	resent, is the Criteria r	net and the Items Listed Below are D	iscussed:							
6.5.5	X	D	D	- Are the Number of Red	ceptors Equal to or Representative to a N	lumber of D	welling Un	its					
6.5.6	X	D	D	- Are there Multi-floor F	Are there Multi-floor Residential Units and do they have Outdoor Use Areas								
6.5.7	X	D	D	- Are Outdoor Use Area	s (Balconies) Identified and Discussed								
	If NA	C C's	are pi	esent. is the Criteria n	net and the Items Listed Below are D	iscussed:							
6 5 0			•										
6.5.8	X	D	D	- Are the Outdoor Use A	reas Documented for Each of the Identif	ied Recepto	ors						
6.5.9	X	D	D	- Was the "Grid system"	Used and Shown on Figures for Recreati	onal Areas,	Trails, Cam	npgrounds, Cemeteries, etc					
	If NA	C D's	are p	resent, is the Criteria r	net and the Item Listed Below is Disc	cussed:							
6.5.10	X	D	D	- Discuss the Building M	aterials and Interior Reduction Factor for	r each Ident	ified Recep	otor					
	If NA	C E's	are pr	esent, is the Criteria n	net and the Item Listed Below is Disc	ussed:							
6.5.11	X	D	D	- Are Outdoor Use Area	Are Outdoor Use Areas Identified and Discussed								
6.5.12	X	D	D	- If "No", Text Should be Provided that the Land Use was Identified but not Evaluated due to the Lack of Outdoor Use									
	Histo	ric Pr	opert	ies									
6.5.13		D	D	- Discuss if any Section 2	106 (Historic) Properties were Identified								
6.5.14		D	D	- Discuss if any Section 4	4(f) Properties were Identified								
0.5.17		_	_	= 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Discuss if any Section 4(f) Properties were Identified								

Required Required	<u> </u>	Completed By: Date:	Skelly and Loy/W Kaufell 10/10/2018	N/A D	This item is "Not/Applicable" to this project This Item is Project Dependent
6.5.15 D) D	- If Section 4(f) Propertion	es are Identified, Does it Constitute a "Const	tructive Use" Deter	mination

6.6 MODELED EXISTING ENVIRONMENT

- **6.6.1 X** ✓ **D** Are Existing and Future Design Years Stated
- **6.6.2 X D** Are Existing Noise Barriers Present within the Proposed Project Area
- **6.6.3 X D D** If Existing Noise Barriers are Present, Does the Project Involve In-Kind Barrier Replacement
- **6.6.4 X** ✓ ✓ Discussion of the Overall Numbers of Existing Condition Impacts and Sound Level Ranges (all CNEs)
- **6.6.5 X** ✓ Discussion of the Determination and Identification of Noise Impacts (by CNE under Existing Condition)
- **6.6.6 X** ✓ **D** Existing Noise Environment discussion

7.0 FUTURE NOISE ENVIRONMENT

7.1 MODELED FUTURE ENVIRONMENT

- **7.1.1 X ✓** Is there Documentation why a No-Build Condition evaluation was/wasn't warranted?
- 7.1.2 | X | D D Discussion of the Overall Numbers of No-Build Condition Impacts and Sound Level Ranges (all CNEs)
- 7.1.3 | X | D D Discussion of the Determination and Identification of Noise Impacts (by CNE under No-Build Condition)
- 7.1.4 X Discussion of the Overall Numbers of Build Condition Impacts and Sound Level Ranges (all CNEs)
- 7.1.5 X V Discussion of the Determination and Identification of Noise Impacts (by CNE under Build Condition)
- **7.1.6 X V D** Comparison of existing and future total noise levels for all identified receptors
- **7.1.7 X ✓** Future Noise Environment Discussion
- **7.1.8** | **X** | ✓ ✓ Table of Predicted Noise Levels (By CNE)

7.2 NOISE ABATEMENT DETERMINATION

7.2.1 X - Alternative Abatement Measures Discussion

Checked	ıary	sign	UPC:	106689/109790		×	This Item has been verified by the document writer
Items are	imir	l De	Completed By:	Skelly and Loy/W Kaufell		N/A	This item is "Not/Applicable" to this project
Required	rel	ina	Date:	10/10/2018		D	This Item is Project Dependent
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Items are	imi	l De	Completed By:	Skelly and Loy/W Kaufell	N/A	This item is "Not/Applicable" to this project
Required	Pre	Final	Date:	10/10/2018	D	This Item is Project Dependent

7.2.2 X ✓ • Was VDOT's Single Receptor Methodology Utilized?

WARRANTED CRITERIA

- **7.2.3 X** ✓ ✓ Is Warranted Criteria Defined?
- **7.2.3.1 X** ✓ ✓ NAC Impact Definition ("Approach or Exceed") Provided
- **7.2.3.2 X** ✓ ✓ Substantial Increase Impact Definiton Provided
- 7.2.3.3 X Has the NAC for Each Evaluated Land Use Category been Defined

FEASIBILITY CRITERIA

- **7.2.4 X** ✓ Is Feasibility Defined?
- 7.2.4.1 X Included definition regarding "Are at least 50% of the impacted receptors predicted to experience at least a 5dB(A) benefit?"
- **7.2.4.2 X** ✓ Included definition regarding "Is the barrier able to be constructed?"

REASONABLENESS CRITERIA

- **7.2.5 X** ✓ Is Reasonableness Defined?
- **7.2.5.1 X** ✓ · Included definition regarding "Noise Reduction Design Goals"
- **7.2.5.2** ★ Included definition regarding "Cost-effectiveness"
- **7.2.5.3 X ✓** Included definition regarding "The Viewpoints of the Benefited Receptors"

NOISE BARRIER EVALUATION

- 7.2.6 X Barrier Documentation should Include: Discussion of Total Number of Impacts, Benefitted Impacts, Additional Benefits, Total Benefits, Feasibility, Reasonablity, Barrier Length, Range of Panel Heights, Barrier Location, Ground or Structure Mounted, Barrier Systems, etc. . .
- 7.2.7 X Reason for Barrier Placement, Barrier Termini, Barrier Location etc. . .

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Items are	imir	l De	Completed By:	Skelly and Loy/W Kaufell	N/A	This item is "Not/Applicable" to this project
Required	Prel	Fina	Date:	10/10/2018	D	This Item is Project Dependent

7.2.8 X ✓ - All Evaluated Barrriers shown on Figures
 7.2.9 X - Barriers were Optimized to Maximize Benefits while Minimizing Cost (Diminishing Returns)

Checked Items are Required		Preliminary	Final Design	UPC: Completed By: Date:	106689/109790 Skelly and Loy/W Kaufell 10/10/2018	N/A D	This Item has been verified by the document writer This item is "Not/Applicable" to this project This Item is Project Dependent					
7.2.10	X	Table was included that shows the Barrier name, Insertion Loss, Panel Height Range, Total Length, Total Surface Area, Total Benefits, Total sq.ft. / no. of benefits, Cost (for Planning Purposes Only)										
7.2.11	X	✓	✓ - Table that shows the Sound Levels, Barrier Insertion Loss for each Receptor included in the Barrier Analysis									
7.2.12	X	D	✓	- Table that shows the A	Approximate Stationing, Northing, Easting,	Bottom and Top of	barrier, Panel Heights by Segment					
7.2.13	X	D D - Does the Barrier (System) Work Independently or is it Dependent on Another Barrier (Existing or Proposed)										
8.0	CON	ISTRU	JCTI	ON NOISE								
8.1	X	X - Construction Noise Discussion										
9.0	PUB	LIC II	NVO	LVEMENT PROCESS								
9.1	NOIS	E CO	МРАТ	IBLE CONTOURS								
9.1.1	X	✓	✓	- 66 dBA Contour Discus	ssion and Shown on Figure(s)							
9.1.2	X	D	D	- Discussion of Public In	volvement Efforts (including Community I	nformation Meetings	s, Individual Meetings, and Special Coordination)					
9.2	VOTI	NG PI	ROCE	EDURES								
9.2.1		✓	✓	- Voting Process Define	d?							
9.2.2			✓	- How many / when we	re Certified Letters Sent?							
9.2.3		✓ - What were the Voting Results Related to Desire for a Barrier?										
9.2.4		✓ - Summary of Barrier Survey Results and Comments?										
9.2.5			✓	- How many Surveys we	ere Unresponsive or Undeliverable?							
9.2.6			✓	- Voting Graphic showing	ng the Results of the Barrier Survey?							
9.2.7		 ✓ - Voting Graphic showing the Results of the Barrier Salvey? ✓ - Were there any Special Abatement Commitments / Acoustic Profiles/ Aesthetics Considerations 										

Checked Items are Required	Preliminary	Final Design	UPC: Completed By: Date:	106689/109790 Skelly and Loy/W Kaufell 10/10/2018		X N/A D	This Item has been verified by the document writer This item is "Not/Applicable" to this project This Item is Project Dependent
9.2.8		✓	- Is this an Addendum R	eport with Revised Impact / Barrier Resu	lts		

Design **Preliminary** UPC: 106689/109790 X This Item has been verified by the document writer Checked N/A Items are **Completed By:** Skelly and Loy/W Kaufell This item is "Not/Applicable" to this project Final Required 10/10/2018 D This Item is Project Dependent Date: 10.0 **OTHER CONSIDERATIONS** 10.1 - Absorptive or Reflective Noise Barriers Proposed? D 10.2 - Was Reflection Noise Considered? D 10.3 - Was Structure Noise Considered? D 10.4 - Was Rail or Aviation Noise Considered? 11.0 **APPENDICES** 11.1 - List of References - List of Preparers / Reviewers 11.2 - Traffic Data 11.3 11.4 Noise Monitoring Field Logs Warranted, Feasible, Reasonable, Worksheets 11.5 Alternative Mitigation Measures Response Form from Project Manager 11.6 11.7 Other Site Sketches of Monitored Locations, Noise Meter Printouts, Noise Meter Calibration Reports, Pertinent Correspondance 11.8 - TNM Certification Certificates - Noise Report Guidance and Accountability Form 11.9 12.0 **TNM RUNS**

Report, However a Copy of the Printed Modeling Information shall be Supplied Upon Request

12.1

Actual TNM Runs (Electronic Files) must be Submitted for Review with Report, TNM Output Tables are Not Required for Inclusion into the

Checked	nary	sign	UPC:	106689/109790	×	This Item has been verified by the document writer
Items are	imir	l De	Completed By:	Skelly and Loy/W Kaufell	N/A	This item is "Not/Applicable" to this project
Required	rel	ina	Date:	10/10/2018	D	This Item is Project Dependent
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13.0 GENERAL

13.1 X ✓ - Figures were Developed in Accordance with VDOT's Noise Report Development and Guidance Document

APPENDIX G - TNM FILES

APPENDIX G TNM FILES

All TNM models associated with the UPC 118643 Van Buren Road Extension Preliminary Design Noise Impact Analysis including 2021 Validation, 2020 Loudest Hour Existing Conditions, 2040 Loudest Hour Design Build and 2040 Loudest Hour mitigation models can be downloaded from:

https://terracon.sharefile.com/d-s18048f3eee08467f894879a2e80c3c4a