Redwood Avenue Warehouse Noise Study

November 2015 (13419)

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November 2015

San Bernardino County

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1 EXECUTIVE SUMMARY

Construction-related and operational noise impacts were modeled and analyzed for the proposed warehouse building located at 9988 Redwood Avenue, San Bernardino County, California. This noise impact analysis contains documentation of existing noise levels as well as analysis of the impacts generated by project operation and traffic and analysis of vibration impacts. This report analyzes the project's consistency with applicable federal, State, and local regulations. The results of this report find construction-related and operational noise levels are consistent with applicable regulations.

1.1 Project Description

The project includes the demolition of the existing no-site structures and the development of a 215,000-square foot warehouse building located at 9988 Redwood Avenue, San Bernardino, California. The project site will be bounded by an eight-foot concrete screening wall along the northern, western, and southern boundaries. The project includes 160 parking stalls, 27 trailer docks, 31 trailer parking spaces, and 70,450 square feet of landscaping.

1.2 Construction-Related Noise

Temporary noise increases will be greatest during the demolition and grading phases of construction. Demolition and grading equipment can expose the single family residence located approximately 355 feet to the west of the center of the project site to a combined noise level of 72.6 dBA L_{max} . Construction equipment could expose the single family residences located 410 feet, 413 feet, and 470 feet to the east of the center of the project site to a combined noise level of 71.3 dBA L_{max} , 71.2 dBA L_{max} , and 70.1 dBA L_{max} , respectively. Although construction noise is exempt pursuant to the municipal code, Mitigation Measures N-1 through N-6 has been incorporated to reduce the impact to neighboring uses during construction. Construction activity will not exceed the County's exterior noise standard for stationary sources; however, noise from construction activity is exempt pursuant to Section 83.01.080(g) of the Municipal Code. With incorporation of the Mitigation Measure N-1, described herein, no substantial impacts will occur.

1.3 Operational Noise

The increase in vehicular traffic on area roadways will not result in noise levels exceeding the 60 dBA CNEL mobile source standard established by the County for residential uses. Operation of the proposed warehouse will not exceed allowable stationary noise levels established by the County at neighboring uses. Therefore, no substantial impacts will occur.

1.4 Vibration

Based on the threshold criteria established by the Federal Transit Administration (FTA) and the California Department of Transportation (Caltrans), vibration from use of heavy construction equipment to construct the proposed project would be below the thresholds to cause damage to nearby structures and result in less than *barely perceptible* vibration at the receptors analyzed in the report. Should roadway improvements be required, implementation of Mitigation Measure N-2 will ensure that no substantial impacts will occur.

1.5 Airport Noise

The project site is located with two miles of a public or private use airport or helipad. Therefore, no substantial impacts will occur.

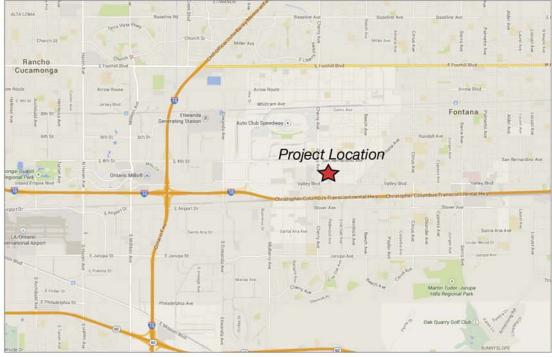
1.6 Mitigation Measures

The following mitigation measures are required to ensure that project-related short- and long-term noise levels are consistent with applicable federal, State, and local regulations.

N-1 Prior to issuance of grading permits, the Applicant shall submit a mitigation plan prepared by a qualified engineer or other acoustical expert for review and approval by the Planning Division that identifies noise control measures that achieve a minimum 20 dBA reduction in construction-related noise levels at the residential uses to the west, south, and east of the project site. The mitigation plan may include use of vibratory pile drivers or other pile

driving noise controls, sound curtains, engineered equipment controls, or other methods. Noise control requirements shall be noted on project construction drawings and verified by the Building Department during standard inspection procedures.

N-2 In the event that roadway improvements are necessary, the Applicant shall ensure that vibration associated with the use of a vibratory roller will not exceed the vibration damage potential for older residential structures of 0.30 PPV and the vibration annoyance potential of 0.04 PPV (distinctly perceptible) established by Caltrans. Supplemental analysis shall be performed and submitted for the review and approval of the Planning Division prior to the start of construction activities.



Source: Google Maps 2014

Regional

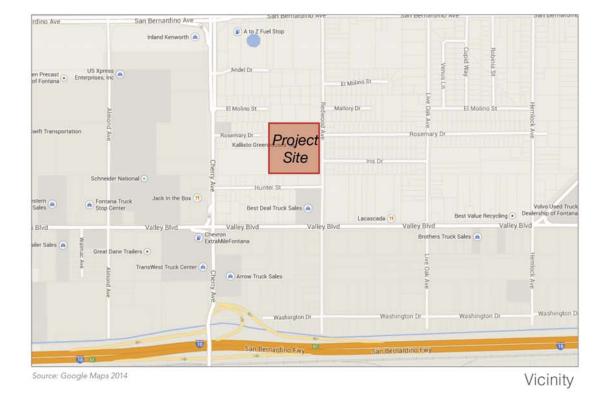




Exhibit 1 Regional and Vicinity Map

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2 INTRODUCTION

This report includes modeling and analysis of construction- and operation-related noise generated from the proposed project on surrounding land uses. Vibration effects and airport noise are also discussed herein. The project includes construction of a 215,000-square foot warehouse building on 9.89 gross acres in unincorporated San Bernardino County, California.

This report has been prepared utilizing project-specific characteristics where available. In those instances where project-specific data is not available, the analysis has been supplemented by model defaults or other standardized sources of comparable data. In any case where non-project defaults or other data have been used, a "worst-case" scenario was developed to ensure a conservative estimate of noise impacts.

This report has been prepared for use by the Lead Agency to assess potential project-related noise impacts to the environment in compliance with federal, State, or local guidelines, particularly with respect to the noise issues identified in Appendix G of the State CEQA Guidelines. This report does not make determinations of significance pursuant to CEQA because such determinations are required to be made solely in the purview of the Lead Agency.

This report has been prepared by Christopher Brown (Director of Environmental Services) and Olivia Chan (Project Associate) of MIG | Hogle-Ireland, Inc. under contract to CRP Oakmont Redwood Avenue, LLC.

Christopher Brown Director of Environmental Services

Olivia Chan Project Associate

3.1 Defining Noise

"Sound" is a vibratory disturbance created by a moving or vibrating source and is capable of being detected. "Noise" is defined as sound that is loud, unpleasant, unexpected, or undesired and may therefore by classified as a more specific ground of sounds. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance and, in the extreme, hearing impairment.

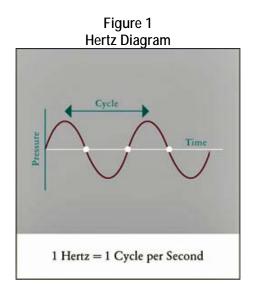
THE PRODUCTION OF SOUND

Sound has three properties: amplitude and amplitude variation of the acoustical wave (loudness), frequency (pitch), and duration of the noise. Despite the ability to measure sound, human perceptibility is subjective, and the physical response to sound complicates the analysis of its impact on people. People judge the relative magnitude of sound sensation in subjective terms such as "noisiness" or "loudness."

MEASURING SOUND

Sound pressure levels are described in logarithmic units of ratios of sound pressures to a reference pressure, squared. These units are called bels. To provide a finer description of sound, a bel is subdivided into 10 decibels, abbreviated dB. Since decibels are logarithmic units, sound pressure levels cannot be added or subtracted by ordinary arithmetic means. For example, if one automobile produces a sound pressure level of 70 dB when it passes an observer, two cars passing simultaneously would not produce 140 dB. In fact, they would combine to produce 73 dB. This same principle can be applied to other traffic quantities as well. In other words, doubling the traffic volume on a street or the speed of the traffic will increase the traffic noise level by three dB. Conversely, halving the traffic volume or speed will reduce the traffic noise level by three dB change in sound is the beginning at which humans generally notice a *barely perceptible* change in sound and a five dB change is generally *readily perceptible*.¹

Sound pressure level alone is not a reliable indicator of loudness. The frequency or pitch of a sound also has a substantial effect on how humans will respond. While the intensity of the sound is a purely physical quantity, the loudness or human response depends on the characteristics of the human ear. Human hearing is limited not only to the range of audible frequencies but also in the way it perceives the sound pressure level in that range. In general, the healthy human ear is most sensitive to sounds between 1,000 Hertz (Hz) and 5,000 Hz, and perceives both higher and lower frequency sounds of the same magnitude with less intensity. Hertz is a unit of frequency that defines any periodic event. In the case of sound pressure, a Hertz defines one cycle of a sound wave per second (see Figure 1, Hertz Diagram). To approximate the frequency response of the human ear, a series of sound pressure level adjustments is usually applied to the sound measured by a sound level meter.



STANDARDS FOR NOISE EQUIVALENT

Noise consists of pitch, loudness, and duration; therefore, a variety of methods for measuring noise have been developed. According to the California General Plan Guidelines for Noise Elements, the following are common metrics for measuring noise:²

 L_{eq} (Equivalent Energy Noise Level): The sound level corresponding to a steady-state sound level containing the same total energy as a time-varying signal over given sample periods. L_{eq} is typically computed over 1-, 8-, and 24-hour sample periods.

CNEL (Community Noise Equivalent Level): The average equivalent A-weighted sound level during a 24-hour day, obtained after addition of five decibels to sound levels in the evening from 7:00 PM to 10:00 PM and after addition of ten decibels to sound levels in the night from 10:00 PM to 7:00 AM.

 L_{dn} (Day-Night Average Level): The average equivalent A-weighted sound level during a 24-hour day, obtained after the addition of ten decibels to sound levels in the night after 10:00 PM and before 7:00 AM.

CNEL and L_{dn} are utilized for describing ambient noise levels because they account for all noise sources over an extended period of time and account for the heightened sensitivity of people to noise during the night. L_{eq} is better utilized for describing specific and consistent sources because of the shorter reference period.

Federal and State agencies have established noise and land use compatibility guidelines that use averaging approaches to noise measurement. The State Department of Aeronautics and the California Commission on Housing and Community Development have adopted the community noise equivalent level (CNEL).

3.2 Vibration and Groundborne Noise

Vibration is the movement of mass over time. It is described in terms of frequency and amplitude and unlike sound; there is no standard way of measuring and reporting amplitude. Vibration can be described in units of velocity (inches per second) or discussed in decibel (dB) units in order to compress the range of numbers required to describe vibration. Vibration impacts to buildings are generally discussed in terms of peak particle velocity (PPV) that describes particle movement over time (in terms of physical displacement of mass). For purposes of this analysis, PPV will be used to describe all vibration for ease of reading and comparison. Vibration can impact people, structures, and sensitive equipment.³ The primary concern related to vibration and people is the potential to annoy those working and residing in the area. Vibration with high enough amplitudes can damage structures (such as crack plaster or destroy windows). Groundborne vibration can also disrupt the use of sensitive medical and scientific instruments such as electron microscopes. Common sources of vibration within communities include construction activities and railroads.

Groundborne vibration generated by construction projects is usually highest during pile driving, rock blasting, soil compacting, jack hammering, and demolition-related activities. Next to pile driving, grading activity has the greatest potential for vibration impacts if large bulldozers, large trucks, or other heavy equipment are used.

4.1 Sensitive Receptors

The State of California defines sensitive receptors as those land uses that require serenity or are otherwise adversely affected by noise events or conditions. Schools, libraries, churches, hospitals, and residential uses make up the majority of these areas. The proposed facility is located in a generally commercial and residential area with a self storage facility to the north, an automobile tire retailer to the west, and residential use to the west, east, and south. There are no schools located within a quarter mile of the project site. Exhibit 2 (Radius Map) identifies existing development in the project vicinity based on assessor's parcel data.

4.2 Existing Noise Levels

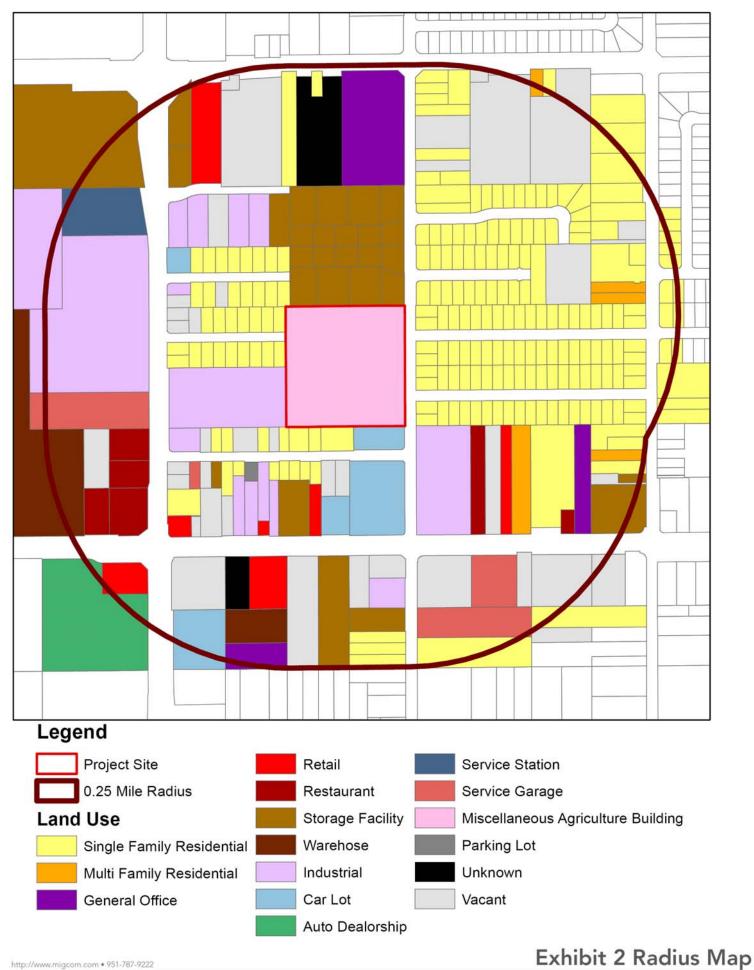
Short-term noise measurements at the project site were conducted to identify the ambient noise in the project vicinity. An American National Standards Institute (ANSI Section SI4 1979, Type 1) Larson Davis model LxT sound level meter was used to monitor existing ambient noise levels in the project area. The noise meter was programmed in "slow" mode to record noise levels in A-weighted form. The microphone height was set at five feet. Three 15-minute daytime noise measurements were taken between 1:08 PM and 2:09 PM on Tuesday, February 3, 2015.

Ambient noise levels ranged from 58.0 to 62.9 dBA CNEL. Ambient noise levels are a composite of noise from all sources, near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location. Measurement locations are shown in Exhibit 3 (Noise Measurement Locations). Ambient noise levels are presented in Table 1 (Ambient Noise Levels) and measurement output data is included as Appendix A.

Vehicular traffic along Redwood Avenue was the dominant noise source at measurement locations 001 and 002 at the eastern boundary of the project site and vehicular traffic on Rosemary Drive and operational equipment on the project site were the dominant noise sources at measurement location 003. Other noise sources included human activity along Redwood Avenue and at the residential uses to the west of the project site.

Location	Time Period	Measurement Period	Description	Existing Ambient Noise Levels (dBA CNEL)
001	1:08 PM-1:23 PM	15 Minutes	Intersection of Rosemary Drive and Redwood Avenue	61.2
002	1:29 PM-1:47 PM	15 Minutes	Southwest corner of project site on Redwood Avenue	62.9
003	1:54 PM-2:09 PM	15 Minutes	Northwestern boundary of project site at the termination of Rosemary Drive	58.0

Table 1 Ambient Noise Levels



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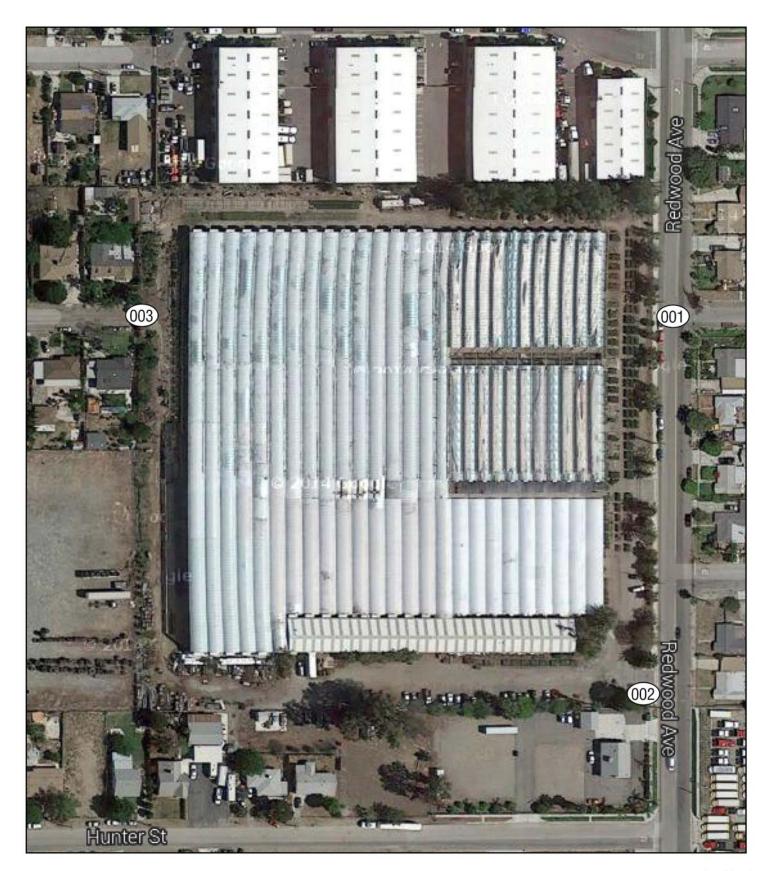




Exhibit 3 Noise Measurement Locations

Source: RGA Office of Architectural Design

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Redwood Avenue Warehouse Fontana, California

5.1 Federal Regulations

FEDERAL NOISE CONTROL ACT OF 1972

The U.S. Environmental Protection Agency (EPA) Office of Noise Abatement and Control was originally established to coordinate federal noise control activities. After its inception, EPA's Office of Noise Abatement and Control issued the Federal Noise Control Act of 1972, establishing programs and guidelines to identify and address the effects of noise on public health, welfare, and the environment. In response, the EPA published information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (Levels of Environmental Noise). The Levels of Environmental Noise recommended that the L_{dn} should not exceed 55 dBA outdoors or 45 dBA indoors to prevent significant activity interference and annoyance in noise-sensitive areas.

5

In addition, the Levels of Environmental Noise identified five dBA as an "adequate margin of safety" for a noise level increase relative to a baseline noise exposure level of 55 dBA L_{dn} (i.e., there would not be a noticeable increase in adverse community reaction with an increase of five dBA or less from this baseline level). The EPA did not promote these findings as universal standards or regulatory goals with mandatory applicability to all communities, but rather as advisory exposure levels below which there would be no risk to a community from any health or welfare effect of noise.

In 1981, EPA administrators determined that subjective issues such as noise would be better addressed at more localized levels of government. Consequently, in 1982 responsibilities for regulating noise control policies were transferred to State and local governments. However, noise control guidelines and regulations contained in EPA rulings in prior years remain in place by designated federal agencies, allowing more individualized control for specific issues by designated federal, State, and local government agencies.

FEDERAL TRANSIT ADMINISTRATION

The Federal Transit Administration (FTA) has developed methodology and significance criteria to evaluate incremental noise impacts from surface transportation modes (i.e., on road motor vehicles and trains) as presented in Transit Noise Impact and Vibration Assessment (FTA Guidelines). These incremental noise impact criteria are based on EPA findings and subsequent studies of annoyance in communities affected by transportation noise. The FTA extended the EPA's five dBA incremental impact criterion to higher ambient levels. As baseline ambient levels increase, smaller and smaller increments are allowed to limit expected increases in community annoyance. For example, in residential areas with a baseline ambient noise level of 50 dBA CNEL, a less-than-five dBA increase in noise levels would produce a minimal increase in community annoyance levels, while at 70 dBA CNEL, only one dBA increase could be accommodated before a significant annoyance increase would occur.

VIBRATION STANDARDS

The FTA provides guidelines for maximum-acceptable vibration criteria for different types of land uses. Groundborne vibration and noise levels associated with various types of construction equipment and activities are summarized in Table 2 (Reference Vibration Source Amplitudes for Construction Equipment). Table 3 (Groundborne Vibration and Noise Impact Criteria) shows the Federal Transit Administration's maximum acceptable vibration standard for human annoyance in residences where people normally sleep is 80 VdB (less than 70 vibration events per day).

Equipment	Reference PPV at 25 ft (in/sec) at 25 Feet	Approximate Vibration Level (VL at 25 Feet	
Pile driver (impact)	1.518 (upper range)	112	
	0.644 (typical)	104	
Pile driver (sonic)	0.734 (upper range)	105	
Plie uliver (soliic)	0.170 (typical)	93	
Clam shovel drop (slurry wall)	0.202	94	
Hydromill	0.008 in soil	66	
Slurry wall	0.017 in rock	75	
Vibratory roller	0.210	94	
Hoe Ram	0.089	87	
Large bulldozer	0.089	87	
Caisson drill	0.089	87	
Loaded trucks	0.076	86	
Jackhammer	0.035	79	
Small bulldozer	0.003	58	
Notes: PPV is the peak particle velocity. Pile driver amplitude varies greatly based on equipment type and size. Source: Federal Transit Administration. Transit Noise and Vibration Impact Assessment. 2006.			

 Table 2

 Reference Vibration Source Amplitudes for Construction Equipment

Table 3

Groundborne Vibration and Noise Impact Criteria				
Land Use Category	Groundborne Vibration Impact Levels (VdB)		Groundborne Noise Impact Levels (dBA)	
	Frequent Events ¹	Infrequent Events ²	Frequent Events ¹	Infrequent Events ²
Category 1: Buildings where low ambient vibration is essential for interior vibrations	65 VdB ³	65 VdB ³	N/A	N/A
Category 2: Residences and buildings where people normally sleep	72 VdB	80 VdB	35 dBA	43 dBA
Category 3: Institutional land uses with primarily daytime use	75 VdB	83 VdB	40 dBA	48 dBA

¹ Frequent Events – more than 70 vibration events per day

² Infrequent Events – fewer than 70 vibration events per day

³ This criterion limit is based on levels that are acceptable for more moderately sensitive equipment such as optical microscopes.

Source: United States Department of Transportation, Federal Transit Administration, Transit Noise and Vibration Assessment, 1995

The FTA and Caltrans have compiled the data from numerous studies related to vibration and have developed standards for human perception and building damage. The FTA's maximum acceptable vibration standard for human annoyance is 78 VdB at nearby vibration-sensitive land uses.⁴ The Caltrans maximum vibration level standard is 0.2 in/sec PPV for the prevention of structural damage to typical residential buildings.⁵

5.2 State Regulations

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

CEQA requires lead agencies to consider noise impacts. Under CEQA, lead agencies are directed to assess conformance to locally established noise standards or other agencies' noise standards; measure and identify the potentially significant exposure of people to or generation of excessive noise levels; measure and identify potentially significant permanent or temporary increase in ambient noise levels; and measure and identify potentially significant impacts associated with air traffic.

CALIFORNIA NOISE CONTROL ACT OF 1973

Sections 46000-46080 of the California Health and Safety Code, known as the California Noise Control Act of 1973, find that excessive noise is a serious hazard to public health and welfare and that exposure to certain levels of noise can result in physiological, psychological, and economic damage. It also finds that there is a continuous and increasing bombardment of noise in the urban, suburban, and rural areas. The California Noise Control Act declares that the State of California has a responsibility to protect the health and welfare of its citizens by the control, prevention, and abatement of noise. It is the policy of the State to provide an environment for all Californians free from noise that jeopardizes their health or welfare.

CALIFORNIA NOISE INSULATION STANDARDS (CCR TITLE 24)

In 1974, the California Commission on Housing and Community Development adopted noise insulation standards for multi-family residential buildings (Title 24, Part 2, California Code of Regulations). Title 24 establishes standards for interior room noise (attributable to outside noise sources). The regulations also specify that acoustical studies must be prepared whenever a residential building or structure is proposed to be located near an existing or adopted freeway route, expressway, parkway, major street, thoroughfare, rail line, rapid transit line, or industrial noise source, and where such noise source or sources create an exterior CNEL (or L_{dn}) of 60 dBA or greater. Such acoustical analysis must demonstrate that the residence has been designed to limit intruding noise to an interior CNEL (or L_{dn}) of 45 dBA or below [California's Title 24 Noise Standards, Chap. 2-35].

STATE OF CALIFORNIA GENERAL PLAN GUIDELINES 2003

Though not adopted by law, the State of California General Plan Guidelines 2003, published by the California Governor's Office of Planning and Research (OPR) (OPR Guidelines), provides guidance for the compatibility of projects within areas of specific noise exposure. The OPR Guidelines identify the suitability of various types of development relative to a range of outdoor noise levels and provide each local community some flexibility in setting local noise standards that allow for the variability in community preferences. Findings presented in the Levels of Environmental Noise Document (EPA 1974) influenced the recommendations of the OPR Guidelines, most importantly in the choice of noise exposure metrics (i.e., L_{dn} or CNEL) and in the upper limits for the normally acceptable outdoor exposure of noise-sensitive uses.

The OPR Guidelines include a Noise and Land Use Compatibility Matrix which identifies acceptable and unacceptable community noise exposure limits for various land use categories. Where the "normally acceptable" range is used, it is defined as the highest noise level that should be considered for the construction of the buildings which do not incorporate any special acoustical treatment or noise mitigation. The "conditionally acceptable" or "normally acceptable" ranges include conditions calling for detailed acoustical study or construction mitigation to reduce interior exposure levels prior to the construction or operation of the building under the listed exposure levels.

CALIFORNIA DEPARTMENT OF TRANSPORTATION

According to the Caltrans vibration manual, large bulldozers, vibratory rollers (used to compact earth), and loaded trucks utilized during grading activities can produce vibration, and depending on the level of vibration, could cause annoyance at uses within the project vicinity or damage structures. Caltrans has developed a screening tool to determine of vibration from construction equipment is substantial enough to impact surrounding uses.

The Caltrans vibration manual establishes thresholds for vibration impacts on buildings and humans. These thresholds are summarized in Tables 4 (Vibration Damage Potential Threshold Criteria) and 5 (Vibration Annoyance Potential Threshold Criteria).

Structural Integrity	Maximum	Maximum PPV (in/sec)	
Structural Integrity	Transient	Continuous	
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08	
Fragile buildings	0.20	0.10	
Historic and some older buildings	0.50	0.25	
Older residential structures	0.50	0.30	
New residential structures	1.00	0.50	
Modern industrial and commercial structures	2.00	0.50	
Source: Caltrans 2004			

Table 4	
Vibration Damage Potential	Threshold Criteria

Vibration Annoyance Potential Threshold Criteria			
	PPV Threshold (in/sec)		
Human Response	Transient	Continuous	
Barely perceptible	0.04	0.01	
Distinctly perceptible	0.25	0.04	
Strongly perceptible	0.90	0.10	
Severely perceptible	2.00	0.40	
Source: Caltrans 2004			

Table 5

Source: Ca

5.3 Local Regulations

COUNTY OF SAN BERNARDINO MUNICIPAL CODE

The County of San Bernardino Municipal Code, under Title 8 (Development Code) Division 3 (Countywide Development Standards) Chapter 83.01 (General Performance Standards) Section 83.01.080 (Noise), provides the local government ordinance relative to community noise level exposure, guidelines, and regulations.

Stationary Noise Sources

Table 83-2 (Noise Standards for Stationary Noise Sources) of the Municipal Code includes exterior noise standard for daytime and nighttime noise levels resulting from stationary noise sources. Between the hours of 7:00 AM and 10:00 PM, exterior noise levels shall not exceed 55 dBA for residential use and 60 dBA for commercial use.

Mobile Noise Sources

Table 83-3 (Noise Standards for Stationary Noise Sources) of the Municipal Code includes exterior noise standards for mobile noise sources. The allowable exterior noise level resulting from mobile noise sources is 60 dBA for residential use and 65 dBA for office commercial use. There is no exterior noise standard for retail commercial use or industrial use.

Construction Noise Levels

Pursuant to Section 83.01.080(g), temporary construction, maintenance, repair, and demolition activities occurring between the hours of 7:00 AM and 7:00 PM except on Sundays and Federal holidays is exempt from County noise standards. In addition, noise from motor vehicles not under the control of the commercial or industrial use is exempt.

Vibration Impacts

Pursuant to Section 83.01.090 (Vibration), temporary construction, maintenance, repair, and demolition activities occurring between the hours of 7:00 AM and 7:00 PM except on Sundays and Federal holidays is exempt from County vibration standards. In addition, noise from motor vehicles not under the control of the commercial or industrial use is exempt.

The thresholds identified in Appendix G of the State CEQA Guidelines, as implemented by the County of San Bernardino, have been utilized to assess the significance of the potential environmental effects of the project.

6.1 Thresholds of Significance

In accordance with Appendix G of the State CEQA Guidelines, the proposed project could result in potentially significant impacts related to noise if it results in:

- A. Exposure of persons or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
- B. Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels.
- C. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project.
- D. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.
- E. For a project located within an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, exposure of people residing or working in the project area to excessive noise levels.
- F. For a project within a vicinity of a private airstrip, expose people residing or working in the project area to excessive noise levels.

To assess construction impacts, a worst-case construction scenario was modeled using the Federal Highway Administration's Roadway Construction Noise Model (RCNM). Modeling parameters and output are provided in Appendix B. RCNM utilizes standard noise emission levels for different types of equipment and includes utilization percentage, impact, and shielding parameters.

To assess current and opening year traffic noise levels, vehicle trips associated with surrounding roadways were modeled utilizing the SoundPLAN software. SoundPLAN is a three-dimensional noise modeling software that accounts for the shielding and reflective effects associated with intervening topography and nearby buildings.

6.2 Consistency with Applicable Standards

CONSTRUCTION NOISE LEVELS

Construction noise levels were estimated using the FHWA Roadway Construction Noise Model (RCNM). Temporary noise increases will be greatest during the demolition and grading phases. The model indicates that the use of construction equipment such as graders, tractors, dozers, and excavators could expose the single family residence located approximately 355 feet to the west of the center of the project site to a combined noise level of 72.6 dBA L_{max} (see Exhibit 4, Receptors). Construction equipment could expose the single family residences located 410 feet, 413 feet, and 470 feet to the east of the center of the project site to a combined noise level of 71.3 dBA L_{max} , 71.2 dBA L_{max} , and 70.1 dBA L_{max} , respectively. Although construction noise is exempt pursuant to the municipal code, Mitigation Measure N-1 has been incorporated to reduce the impact to neighboring uses during construction.

Per Section 83.01.080(g) of the San Bernardino County Code, construction activities occurring between the hours of 7:00 AM and 7:00 PM on Mondays through Saturdays are exempt from noise standards. Due to the time limitations on construction activity, surrounding employees and residents will be exposed to limited construction noise with adherence to County standards. Because noise levels construction are anticipated to exceed the City's standards for stationary noise sources, mitigation measures will be necessary to minimize noise levels at nearby receptors. Mitigation Measure N-1 will be incorporated to minimize noise associated with general construction activities. Mitigation Measure N-1 requires preparation of a construction noise reduction plan to reduce temporary noise impacts by minimum of 20 dBA which is a feasible performance standard based on available technology. Engineered controls include retrofitting equipment with improved exhaust and intake muffling, disengaging equipment fans, and installation of sound panels

around equipment engines. These types of controls can achieve noise level reductions of approximately 10 dBA.⁶ ⁷ Sound curtains and other noise barriers can be used for general construction noise and achieve reductions of up to 20 dBA.⁸ Implementation of Mitigation Measure N-1 will reduce temporary noise impacts by a minimum of 20 dBA, resulting in a maximum construction noise level of 57.3 dBA at the commercial use to the west of the project site. Therefore, with implementation of Mitigation Measures N-1 and adherence to County standards, construction noise will feasibly be reduced to unsubstantial levels.

OPERATIONAL NOISE LEVELS

The San Bernardino County Municipal Code sets an allowable exterior noise level resulting from stationary noise sources for residential uses at 55 dBA CNEL, 65 dBA CNEL for commercial uses, and 70 dBA CNEL for industrial uses. Allowable exterior noise levels resulting from adjacent mobile sources are set at 60 dBA CNEL for residential uses and 65 dBA CNEL for office commercial uses. There is no mobile source exterior standard for retail commercial or industrial uses. Ambient noise at the project site would generally be defined by traffic on Redwood Avenue, Hunter Street, and operational noise from neighboring commercial uses. All measurement equipment meets American National Standards Institute (ANSI) specifications for sound level meters. Using a Larson Davis LxT sound level meter, three short-term (15 minute) noise measurements were recorded at various locations at the site. Short-term noise measurements were recorded during daytime hours. Traffic noise from vehicular traffic generated by the proposed project was projected using SoundPLAN software based on trip generation and distribution estimated in the project traffic study prepared by Kunzman Associates.

The noise levels at neighboring uses were calculated using SoundPLAN software to provide a baseline of the opening year traffic noise levels. Noise levels at the single family homes to the east and west, the storage facility to the north, and the commercial uses to the south were calculated (see Appendix C for output data) and projected at the ground floor. The 2017 opening year without and with project traffic noise levels during the AM and PM peak hours at neighboring uses are summarized in Table 6 (Roadway Noise Levels Without Project) and Table 7 (Roadway Noise Levels With Project). Opening year without and with project exterior mobile source noise levels will exceed the 60 dBA CNEL standard established by the County for residential uses at six of the eight single family homes identified below. However, the project does not cause the exterior noise levels to exceed the 60 dBA CNEL threshold for a receptor that is currently below 60 dBA CNEL. Therefore, no significant impacts will result.

Receptors	AM Peak Hour dBA CNEL	PM Peak Hour dBA CNEL
1 – Single Family Home (NE)	60.0	61.4
2 – Storage Facility (N)	63.7	64.9
3 – Single Family Home (E)	61.0	62.5
4 – Single Family Home (E)	61.0	62.5
5 – Single Family Home (E)	61.0	62.5
6 – Single Family Home (E)	62.1	63.5
7 – Retail Commercial (SE)	62.3	63.7
8 – Single Family Home (S)	62.0	63.0
9 – Single Family Home (S)	53.9	55.2
10 – Single Family Home (W)	48.8	50.2

Table 6 Roadway Noise Levels Without Project

Receptors	AM Peak Hour dBA CNEL	PM Peak Hour dBA CNEL
1 – Single Family Home (NE)	60.0	61.7
2 – Storage Facility (N)	63.7	65.2
3 – Single Family Home (E)	61.2	62.7
4 – Single Family Home (E)	61.2	62.6
5 – Single Family Home (E)	61.3	62.7
6 – Single Family Home (E)	62.4	63.7
7 – Retail Commercial (SE)	62.7	64.1
8 – Single Family Home (S)	62.4	63.4
9 – Single Family Home (S)	54.0	55.3
10 – Single Family Home (W)	48.9	50.4

Table 7 Roadway Noise Levels With Project

Operation of the proposed warehouse facility will involve on-site truck movement, truck idling, loading activities, doors slamming, and back-up alarms on the south side of the building. Parking areas for passenger cars located on the west and north sides of the building will involve car movement, car doors slamming, and the starting up of vehicles. The proposed project includes an eight-foot concrete screen wall along the northern, western, and southern boundaries of the site, shielding neighboring uses from noise generated on-site. These operational noise levels have been calculated using SoundPLAN software and summarized in Table 8 (On-Site Project Noise Levels). As shown below, exterior noise levels at all receivers are within the 55 dBA CNEL stationary noise standard for residential use and 60 dBA CNEL stationary noise standard for commercial use.

On-site Project Noise Levels				
Receptors	dBA CNEL			
1 – Single Family Home (NE)	40.2			
2 – Storage Facility (N)	45.2			
3 – Single Family Home (E)	46.8			
4 – Single Family Home (E)	39.3			
5 – Single Family Home (E)	32.7			
6 – Single Family Home (E)	42.6			
7 – Retail Commercial (SE)	39.4			
8 – Single Family Home (S)	43.9			
9 – Single Family Home (S)	47.2			
10 – Single Family Home (W)	53.3			

Table 8 On-site Project Noise Levels

6.3 Vibration Impacts

Construction activities that use vibratory rollers and bulldozers are repetitive sources of vibration; therefore, the *continuous* threshold is used. Single family residences to the south and east were built in the 1970s to 1990s. Therefore, the *older residential structures* threshold is used. Based on the threshold criteria summarized in Tables 4 and 5, vibration from use of heavy construction equipment for the proposed project would be below the thresholds to cause damage to nearby structures and result in less than *barely perceptible* vibration at the ten receptors shown in Table 9 (Distance to Vibration Receptors) and Table 10 (Construction Vibration Impacts).

Receptors	Distance from Center of Project Site (ft)		
1 – Single Family Home (NE)	683		
2 – Storage Facility (N)	680		
3 – Single Family Home (E)	465		
4 – Single Family Home (E)	410		
5 – Single Family Home (E)	413		
6 – Single Family Home (E)	470		
7 – Retail Commercial (SE)	753		
8 – Single Family Home (S)	472		
9 – Single Family Home (S)	427		
10 – Single Family Home (W)	355		

Table 9 Distance to Vibration Receptors

Construction of the project does not require rock blasting, pile driving, or the use of a jack hammer, but will use a vibratory roller, small and large bulldozer, and loaded trucks. All of the receptors will experience less than *barely perceptible* vibration from construction of the proposed project. Furthermore, these construction activities will be limited to the hours of 7:00 AM to 7:00 PM Mondays through Saturdays.

Use of a vibratory roller may be required in the event that roadway improvements are required. To ensure that vibrationrelated impacts related to potential roadway improvements will not damage the neighboring residential structures or cause annoyance, Mitigation Measure N-2 has been incorporated. Mitigation Measure N-2 requires the preparation of supplemental vibration analysis in the event that roadway improvements are required.

With regard to long-term operational impacts, activities associated with the project will not result in any vibration-related impacts to adjacent or on-site properties.

Receptors			Distance	
	Equipment	PPVref	(feet)	PPV
1 – Single Family Home (NE)	Vibratory Roller	0.21	683	0.0028
2 – Storage Facility (N)	Vibratory Roller	0.21	680	0.0029
3 – Single Family Home (E)	Vibratory Roller	0.21	465	0.0047
4 – Single Family Home (E)	Vibratory Roller	0.21	410	0.0055
5 – Single Family Home (E)	Vibratory Roller	0.21	413	0.0055
6 – Single Family Home (E)	Vibratory Roller	0.21	470	0.0046
7 – Retail Commercial (SE)	Vibratory Roller	0.21	753	0.0025
8 – Single Family Home (S)	Vibratory Roller	0.21	472	0.0046
9 – Single Family Home (S)	Vibratory Roller	0.21	427	0.0052
10 – Single Family Home (W)	Vibratory Roller	0.21	355	0.0067
1 – Single Family Home (NE)	Large Bulldozer	0.089	683	0.001208
2 – Storage Facility (N)	Large Bulldozer	0.089	680	0.001215
3 – Single Family Home (E)	Large Bulldozer	0.089	465	0.001991
4 – Single Family Home (E)	Large Bulldozer	0.089	410	0.002345
5 – Single Family Home (E)	Large Bulldozer	0.089	413	0.002323
6 – Single Family Home (E)	Large Bulldozer	0.089	470	0.001963
7 – Retail Commercial (SE)	Large Bulldozer	0.089	753	0.001064
8 – Single Family Home (S)	Large Bulldozer	0.089	472	0.001952
9 – Single Family Home (S)	Large Bulldozer	0.089	427	0.002224
10 – Single Family Home (W)	Large Bulldozer	0.089	355	0.002828
1 – Single Family Home (NE)	Small Bulldozer	0.003	683	0.000041
2 – Storage Facility (N)	Small Bulldozer	0.003	680	0.000041
3 – Single Family Home (E)	Small Bulldozer	0.003	465	0.000067
4 – Single Family Home (E)	Small Bulldozer	0.003	410	0.000079
5 – Single Family Home (E)	Small Bulldozer	0.003	413	0.000078
6 – Single Family Home (E)	Small Bulldozer	0.003	470	0.000066
7 – Retail Commercial (SE)	Small Bulldozer	0.003	753	0.000036
8 – Single Family Home (S)	Small Bulldozer	0.003	472	0.000066
9 – Single Family Home (S)	Small Bulldozer	0.003	427	0.000075
10 – Single Family Home (W)	Small Bulldozer	0.003	355	0.000095
1 – Single Family Home (NE)	Loaded Truck	0.076	683	0.001031
2 – Storage Facility (N)	Loaded Truck	0.076	680	0.001037
3 – Single Family Home (E)	Loaded Truck	0.076	465	0.001700
4 – Single Family Home (E)	Loaded Truck	0.076	410	0.002002
5 – Single Family Home (E)	Loaded Truck	0.076	413	0.001983
6 – Single Family Home (E)	Loaded Truck	0.076	470	0.001677
7 – Retail Commercial (SE)	Loaded Truck	0.076	753	0.000908
8 – Single Family Home (S)	Loaded Truck	0.076	472	0.001667
9 – Single Family Home (S)	Loaded Truck	0.076	427	0.001899
10 – Single Family Home (W)	Loaded Truck	0.076	355	0.002415

Table 10 Construction Vibration Impacts

6.4 Increase in Ambient Noise Levels

A substantial increase in ambient noise is an increase that is *barely perceptible* (3 dBA). Operationally, the proposed project will result in periodic landscaping and other occasional noise generating activities. These activities are common

in industrial uses and do not represent a substantial increase in periodic noise in consideration that the project site is located in an industrialized area.

Traffic noise levels will not increase more than 3 dBA as a result of the proposed project as shown in Table 11 (AM Peak Hour Change in Noise Levels) and Table 12 (PM Peak Hour Change in Noise Levels). In addition, the ambient noise measurements at the eastern boundary of the project site, as previously indicated in Table 1, is generally consistent with the modeled roadway noise levels with project. Therefore impacts will be less than significant.

AM Peak Hour Change in Noise Levels				
Receptors	Without Project dBA CNEL	With Project dBA CNEL	Difference	Significant?
1 – Single Family Home (NE)	60.0	60.0	0.0	No
2 – Storage Facility (N)	63.7	63.7	0.0	No
3 – Single Family Home (E)	61.0	61.2	0.2	No
4 – Single Family Home (E)	61.0	61.2	0.2	No
5 – Single Family Home (E)	61.0	61.3	0.3	No
6 – Single Family Home (E)	62.1	62.4	0.3	No
7 – Retail Commercial (SE)	62.3	62.7	0.4	No
8 – Single Family Home (S)	62.0	62.4	0.4	No
9 – Single Family Home (S)	53.9	54.0	0.1	No
10 – Single Family Home (W)	48.8	48.9	0.1	No

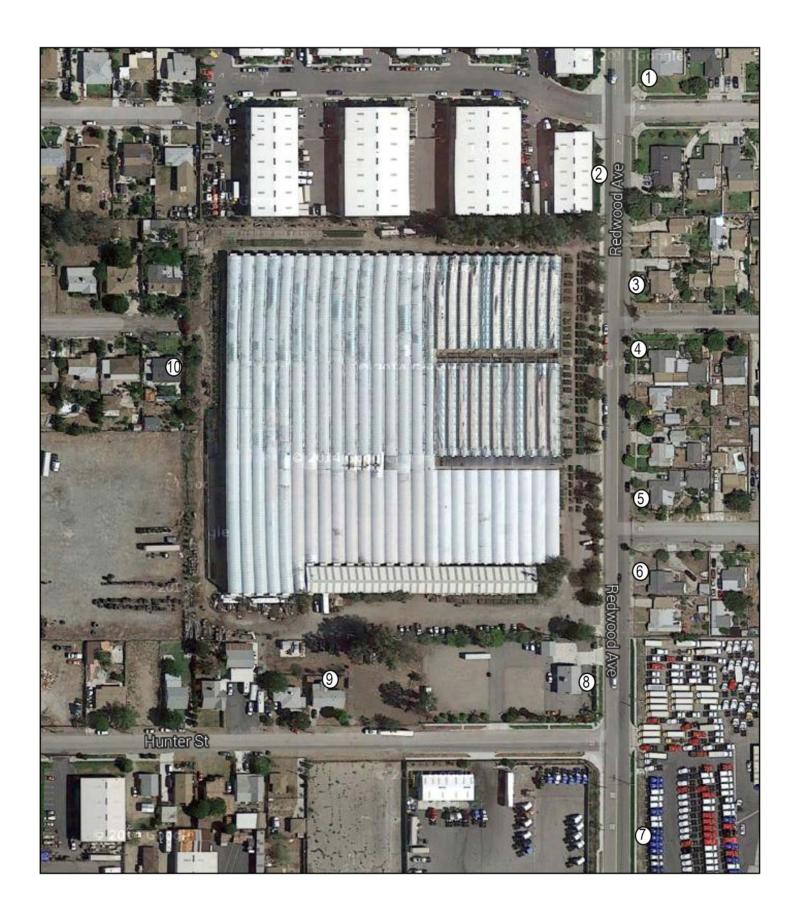
Table 11
AM Peak Hour Change in Noise Levels

Table 12 PM Peak Hour Change in Noise Levels

Receptors	Without Project dBA CNEL	With Project dBA CNEL	Difference	Significant?
1 – Single Family Home (NE)	61.4	61.7	0.3	No
2 – Storage Facility (N)	64.9	65.2	0.3	No
3 – Single Family Home (E)	62.5	62.7	0.2	No
4 – Single Family Home (E)	62.5	62.6	0.1	No
5 – Single Family Home (E)	62.5	62.7	0.2	No
6 – Single Family Home (E)	63.5	63.7	0.2	No
7 – Retail Commercial (SE)	63.7	64.1	0.4	No
8 – Single Family Home (S)	63.0	63.4	0.4	No
9 – Single Family Home (S)	55.2	55.3	0.1	No
10 – Single Family Home (W)	50.2	50.4	0.2	No

6.5 Airport Noise

The project site is located with two miles of a public or private use airport or helipad. Therefore, no substantial impacts will occur.



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Exhibit 4 Receptors

7 MITIGATION MEASURES

The following mitigation measures are required to ensure that project-related noise levels will not exceed established thresholds.

- N-1 Prior to issuance of grading permits, the Applicant shall submit a mitigation plan prepared by a qualified engineer or other acoustical expert for review and approval by the Planning Division that identifies noise control measures that achieve a minimum 20 dBA reduction in construction-related noise levels at the residential uses to the west, south, and east of the project site. The mitigation plan may include use of vibratory pile drivers or other pile driving noise controls, sound curtains, engineered equipment controls, or other methods. Noise control requirements shall be noted on project construction drawings and verified by the Building Department during standard inspection procedures.
- N-2 In the event that roadway improvements are necessary, the Applicant shall ensure that vibration associated with the use of a vibratory roller will not exceed the vibration damage potential for older residential structures of 0.30 PPV and the vibration annoyance potential of 0.04 PPV (distinctly perceptible) established by Caltrans. Supplemental analysis shall be performed and submitted for the review and approval of the Planning Division prior to the start of construction activities.

- ¹ California Department of Transportation. Basics of Highway Noise: Technical Noise Supplement. November 2009.
- ² California Governor's Office of Planning and Research. General Plan Guidelines. 2003
- ³ California Department of Transportation. Transportation- and Construction-Induced Vibration Guidance Manual. June 2004
- ⁴ Federal Transit Administration. *Transit Noise and Vibration Impact Assessment.* 2006
- ⁵ California Department of Transportation. *Transportation and Construction Vibration Guidance Manual. Division of Environmental Analysis. September 2013*
- ⁶ United States Bureau of Mines. Mining Machinery Noise Control Guidelines. 1983
- ⁷ United States Bureau of Mines. Noise Abatement Techniques for Construction Equipment. August 1979
- ⁸ Sound Seal. Sound Seal Sound Curtains Exterior Grade Noise Control. <u>http://www.soundcurtains.com/exterior-grade-noise-control.pdf</u> [October 2014]

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03790
SoundExpert™ LxT
2.206
LxT_Data.002
OliviaChan
Redwood Warehouse
San Bernardino County
Tuesday, 03 February 2015 13:08:36
Tuesday, 03 February 2015 13:23:36
00:15:00.0
00:15:00.0
00:00:00.0
Thursday, 30 January 2014 00:00:58
None

Overall Data			
LASeq		61.2	dB
LASmax	03 Feb 2015 13:12:00	77.1	dB
LApeak (max)	03 Feb 2015 13:12:00	92.3	dB
LASmin	03 Feb 2015 13:16:06	45.5	dB
LCSeq		67.9	dB
LASeq		61.2	dB
LCSeq - LASeq		6.7	dB
Typed Typed		63.1	dB
LAeq		61.2	dB
Typed - Typed		1.9	dB
LASE		90.7	dB
# Overloads		90.7	uь
Uverload Solution		0.0	S
# OBA Overloads		0.0	S
			-
OBA Overload Duration		19.8	S
Statistics			
LAS5.00		68.5	dBA
LAS5.00 LAS10.00		65.2	dBA
LAS10.00 LAS33.30		55.3	dBA dBA
		55.3	dBA dBA
LAS50.00		50.2 47.7	
LAS66.60			dBA
LAS90.00		46.2	dBA
LAS > 85.0 dB (Exceedence Counts / Duration)		0 / 0.0	s
LAS > 115.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LApeak > 135.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LApeak > 135.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LApeak > 140.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LAPEAR > 140.0 GB (EXCEEdence Counts / Duracion)		0 / 0.0	8
Settings			
RMS Weight		A Weighting	
Peak Weight		A Weighting	
Detector		Slow	
Preamp		PRMLxT1L	
Microphone Correction		Off	
Integration Method		Exponential	
OBA Range		Low	
OBA Range OBA Bandwidth		1/1 and 1/3	
OBA Freq. Weighting		A Weighting	
OBA Max Spectrum		At Lmax	
Under Range Limit		25.0	dB
		25.0 78.0	dB dB
Under Range Peak			
Noise Floor		14.9	dB
Overload		121.8	dB

1/1 Spectra													
Freq. (Hz):	8.0	16.0	31.5	63.0	125	250	500	1k	2k	4k	8k	16k	
LASeq	6.3	10.7	24.2	36.8	45.8	47.7	53.4	57.9	54.4	45.2	38.9	22.7	
LASmax	6.3	15.8	31.1	42.6	53.2	58.9	68.4	72.7	67.6	58.5	52.0	40.5	
LASmin	6.3	5.7	18.8	29.1	35.0	36.6	37.5	40.5	37.4	26.6	14.5	6.4	

1/3 Spectra												
Freq. (Hz):	6.3	8.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0
LASeq	2.1	1.6	0.8	0.4	4.8	9.3	12.4	20.1	21.7	28.0	32.6	33.7
LASmax	2.1	1.6	0.8	0.5	6.8	14.8	18.1	25.3	30.0	32.7	38.8	38.7
LASmin	2.1	1.6	0.8	0.3	-0.6	3.2	5.8	13.6	15.0	18.6	23.8	24.7
Freq. (Hz):	100	125	160	200	250	315	400	500	630	800	1k	1.25k
LASeq	40.1	41.0	41.9	41.1	43.5	43.7	46.1	48.0	50.5	52.6	53.7	53.1
LASmax	48.8	46.1	51.0	52.4	53.8	56.5	58.0	60.6	67.3	68.7	67.7	66.6
LASmin	27.4	30.9	29.3	31.0	32.5	30.7	32.7	32.4	32.8	34.9	35.7	34.5
Freq. (Hz):	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
LASeq	51.6	49.3	46.5	42.9	39.5	36.6	34.1	36.8	27.0	21.1	15.8	8.3
LASmax	64.6	63.0	59.7	55.5	53.1	51.8	49.9	46.4	43.2	39.1	33.5	25.8
LASmin	33.3	33.2	28.5	24.7	20.4	16.0	11.8	9.4	6.3	3.0	2.0	-1.6

Calibration History		
Preamp	Date	dB re. 1V/Pa
PRMLxT1L	30 Jan 2014 00:00:58	-28.0
PRMLxT1L	13 Sep 2014 10:03:02	-27.2
PRMLxT1L	13 Aug 2014 07:59:24	-28.6
PRMLxT1L	21 Jul 2014 14:19:41	-28.1
PRMLxT1L	08 May 2014 10:49:07	-28.1
PRMLxT1L	07 Oct 2013 00:47:30	-28.3
PRMLxT1L	07 Oct 2013 00:06:24	-26.4

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03790
SoundExpert™ LxT
2.206
LxT_Data.003
OliviaChan
Redwood Warehouse
San Bernardino County
Tuesday, 03 February 2015 13:29:34
Tuesday, 03 February 2015 13:47:28
00:15:04.5
00:15:04.5
00:00:00.0
Thursday, 30 January 2014 00:00:58
None

Overall Data			
LASeq		62.9	dB
LASmax	03 Feb 2015 13:44:33	79.4	dB
LApeak (max)	03 Feb 2015 13:41:29	93.8	dB
LASmin	03 Feb 2015 13:39:24	44.9	dB
	03 FED 2015 13:39:24	44.9 72.4	dB
LCSeq			
LASeq		62.9	dB
LCSeq - LASeq		9.5	dB
LAIeq		65.0	dB
LAeq		63.1	dB
LAIeq - LAeq		2.0	dB
LASE		92.5	dB
# Overloads		0	
Overload Duration		0.0	S
# OBA Overloads		13	
OBA Overload Duration		61.8	S
Statistics			
LAS5.00		70.4	dBA
LAS10.00		67.5	dBA
LAS33.30		58.1	dBA
LAS50.00		53.1	dBA
LAS66.60		49.8	dBA
LAS90.00		47.8	dBA
LA390.00		47.0	UBA
LAS > 85.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LAS > 115.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LApeak > 135.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LApeak > 137.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
LApeak > 140.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
Settings			
RMS Weight		A Weighting	
Peak Weight		A Weighting	
Detector		Slow	
Preamp		PRMLxT1L	
Microphone Correction		Off	
Integration Method		Exponential	
OBA Range		Low	
OBA Bandwidth		1/1 and 1/3	
OBA Freq. Weighting		A Weighting	
OBA Max Spectrum		At Lmax	
		IIC LINCA	
Under Range Limit		25.0	dB
Under Range Peak		78.0	dB
		/0.0	
5		14 9	
Noise Floor Overload		14.9 121.8	dB dB

Note

1/1 Spectra												
Freq. (Hz):	8.0	16.0	31.5	63.0	125	250	500	1k	2k	4k	8k	16k
LASeq	6.3	12.8	33.1	42.1	48.9	49.6	55.3	59.2	56.0	49.0	43.4	33.8
LASmax	6.3	14.2	38.6	52.7	57.4	64.4	71.1	75.1	72.9	71.0	66.5	53.5
LASmin	6.3	6.3	19.4	29.4	33.3	33.8	37.5	41.4	33.3	28.1	13.8	6.4

1/3 Spectra												
Freq. (Hz):	6.3	8.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0
LASeq	2.1	1.6	0.8	0.5	7.3	11.2	14.9	23.9	32.5	33.9	37.5	38.6
LASmax	2.1	1.6	0.8	2.0	7.6	11.7	14.5	20.5	37.4	33.3	42.0	51.3
LASmin	2.1	1.6	0.8	0.3	-0.6	1.7	6.3	13.6	12.4	18.8	23.1	21.2
Freq. (Hz):	100	125	160	200	250	315	400	500	630	800	1k	1.25k
LASeq	43.5	45.2	44.1	44.1	44.0	46.2	48.4	50.6	52.0	53.9	55.2	54.2
LASmax	49.2	51.5	55.5	58.8	56.8	61.8	66.3	66.4	66.7	69.2	71.7	69.8
LASmin	26.3	28.7	27.3	29.0	28.5	28.7	30.2	31.9	34.5	37.0	36.6	34.9
Freq. (Hz):	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
LASeq	52.9	51.2	48.6	46.0	43.6	41.8	39.9	36.8	38.6	31.8	25.4	19.1
LASmax	67.7	68.3	68.6	67.8	65.4	65.4	64.4	61.3	56.2	52.2	46.3	39.2
LASmin	31.3	26.7	22.7	25.0	22.5	19.6	11.5	7.2	4.9	2.8	1.4	-1.1

Calibration History		
Preamp	Date	dB re. 1V/Pa
PRMLxT1L	30 Jan 2014 00:00:58	-28.0
PRMLxT1L	13 Sep 2014 10:03:02	-27.2
PRMLxT1L	13 Aug 2014 07:59:24	-28.6
PRMLxT1L	21 Jul 2014 14:19:41	-28.1
PRMLxT1L	08 May 2014 10:49:07	-28.1
PRMLxT1L	07 Oct 2013 00:47:30	-28.3
PRMLxT1L	07 Oct 2013 00:06:24	-26.4

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General Information	
Serial Number	03790
Model	SoundExpert™ LxT
Firmware Version	2.206
Filename	LxT_Data.004
User	OliviaChan
Job Description	Redwood Warehouse
Location	San Bernardino County
Measurement Description	
Start Time	Tuesday, 03 February 2015 13:54:08
Stop Time	Tuesday, 03 February 2015 14:09:08
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	Thursday, 30 January 2014 00:00:58
Post Calibration	None
Calibration Deviation	

Overall Data			
LASeq		58.0	dB
LASmax	03 Feb 2015 14:08:23	81.0	dB
LApeak (max)	03 Feb 2015 14:08:22	104.2	dB
LASmin	03 Feb 2015 13:54:08	48.6	dB
LCSeq	03 LED 2013 13.31.00	48.0	dB
-		58.0	dB
LASeq		58.0	dB
LCSeq - LASeq			
LAIeq		66.4	dB
LAeq		58.0	dB
LAIeq - LAeq		8.4	dB
LASE		87.5	dB
# Overloads		0	
Overload Duration		0.0	S
# OBA Overloads		4	
OBA Overload Duration		8.3	S
Statistics			
LAS5.00		62.2	dBA
LAS5.00 LAS10.00		60.3	dBA
LAS10.00 LAS33.30		54.4	dBA
		54.4	dBA dBA
LAS50.00 LAS66.60		52.4	
			dBA
LAS90.00		50.1	dBA
LAS > 85.0 dB (Exceedence Counts / Duration)		0 / 0.0	s
LAS > 115.0 dB (Exceedence Counts / Duration)		0 / 0.0	s
LApeak > 135.0 dB (Exceedence Counts / Duration)		0 / 0.0	s
LApeak > 137.0 dB (Exceedence Counts / Duration)		0 / 0.0	s
LApeak > 140.0 dB (Exceedence Counts / Duration)		0 / 0.0	S
hapear > 140.0 ab (Excedence counts / buración,		0 / 0.0	5
Settings			
RMS Weight		A Weighting	
Peak Weight		A Weighting	
Detector		Slow	
Preamp		PRMLxT1L	
Microphone Correction		Off	
Integration Method		Exponential	
OBA Range		Low	
OBA Bandwidth		1/1 and 1/3	
OBA Freq. Weighting		A Weighting	
OBA Max Spectrum		At Lmax	
Under Range Limit		25.0	dB
Under Range Peak		78.0	dB
Noise Floor		14.9	dB
Overload		121.8	dB

1/1 Spectra												
Freq. (Hz):	8.0	16.0	31.5	63.0	125	250	500	1k	2k	4k	8k	16k
LASeq	6.3	11.2	25.0	33.9	37.5	41.6	47.4	50.7	50.8	52.7	41.2	28.7
LASmax	10.3	16.2	26.3	34.5	42.3	53.6	53.9	58.3	68.4	75.2	59.8	55.0
LASmin	6.3	4.5	18.2	30.2	33.6	36.5	42.8	44.6	36.0	30.5	16.8	6.5

1/3 Spectra												
Freq. (Hz):	6.3	8.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	63.0	80.0
LASeq	2.1	1.6	0.8	0.7	5.3	9.6	17.6	19.0	22.6	25.5	30.2	30.2
LASmax	2.1	1.6	4.1	6.7	10.5	13.8	15.4	21.9	22.5	27.4	32.0	30.8
LASmin	2.1	1.6	0.8	0.3	-0.6	2.0	6.7	-3.4	15.6	20.9	26.1	23.0
Freq. (Hz):	100	125	160	200	250	315	400	500	630	800	1k	1.25k
LASeq	30.4	33.9	33.2	36.1	35.9	38.1	40.4	42.6	44.2	45.5	45.8	46.5
LASmax	38.3	38.9	34.5	37.8	41.9	53.3	42.6	44.7	53.2	49.9	51.1	56.8
LASmin	25.2	28.6	28.0	29.0	29.5	32.0	35.0	37.4	39.1	39.7	40.0	37.4
Freq. (Hz):	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
LASeq	45.9	45.0	47.0	50.0	47.5	45.5	39.2	34.3	31.9	26.8	22.7	15.4
LASmax	54.3	54.7	67.7	75.1	63.9	55.6	52.5	54.7	57.2	53.2	49.3	43.0
LASmin	33.7	29.6	28.1	25.3	23.1	18.9	14.1	9.9	6.4	4.1	0.9	-3.1
a 111												

carroración miscory		
Preamp	Date	dB re. 1V/Pa
PRMLxT1L	30 Jan 2014 00:00:58	-28.0
PRMLxT1L	13 Sep 2014 10:03:02	-27.2
PRMLxT1L	13 Aug 2014 07:59:24	-28.6
PRMLxT1L	21 Jul 2014 14:19:41	-28.1
PRMLxT1L	08 May 2014 10:49:07	-28.1
PRMLxT1L	07 Oct 2013 00:47:30	-28.3
PRMLxT1L	07 Oct 2013 00:06:24	-26.4

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Report date: Case Description:	2/3/20 ⁻ Building Dem													
		D	Rece	ptor #1										
Description	Lond Llco	Baselines (dBA)	aing Night											
Description Single Family Home (NE)	Land Use Residential	Daytime Eve 55		55										
Single Family Home (NE)	Residential	00	00	00										
			Equipme	nt										
			Spec	Actual	Receptor	Estimated	i							
		Impact	Lmax	Lmax	Distance	Shielding								
Description		Device Usa	ge(%) (dBA)	(dBA)	(feet)	(dBA)								
Concrete Saw		No	20		9.6 68		0							
Excavator		No	40		0.7 68		0							
Excavator		No	40		0.7 68		0							
Excavator Dozer		No No	40 40		D.7 68 1.7 68		0 0							
Dozer		No	40		1.7 68		0							
00201		110	10	Ū			0							
			Results											
		Calculated (dBA)		Noise Lir	nits (dBA)					Noise Lin	nit Exceedan	ce (dBA)		
			Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		66.9	59.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator Excavator		58 58	54 N/A 54 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Excavator		58	54 N/A 54 N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A
Dozer		59	55 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		59	55 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	66.9	63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the	Loudest value.											
			Doco	ntor #2										
		Baselines (dBA)	Rece	ptor #2										
Description	Land Use	Daytime Eve	ning Night											
Storage Facility (N)	Industrial	65		65										
			Equipme											
			Spec	Actual	Receptor	Estimated	i							
Description		Impact	Lmax	Lmax	Distance	Shielding								
Description Concrete Saw		Device Usa No	ge(%) (dBA) 20	(dBA)	(feet) 9.6 68	(dBA)	0							
Excavator		No	40		0.7 68		0							
Excavator		No	40		0.7 68		0							
Excavator		No	40	8	0.7 68		0							
Dozer		No	40	8	1.7 68	0	0							
Dozer		No	40	8	1.7 68	0	0							
			Results											
		Calculated (dBA)	IVE20112	Noise I ir	nits (dBA)					Noise L in	nit Exceedan	ce (dBA)		
			Day		Evening		Night		Day		Evening	()	Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		66.9	59.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator Dozer		58 59	54.1 N/A 55 N/A	N/A	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A
Dozer		59	55 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
50201	Total	66.9	63.8 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the	Loudest value.											
		Pacolinos (JDA)	Rece	ptor #3										
Description	Land Use	Baselines (dBA) Daytime Eve	ning Night											
Single Family Home (E)	Residential	55		55										
			Equipme		_	_								
		Import	Spec	Actual	Receptor	Estimated	1							
Description		Impact Device Usa	Lmax ge(%) (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)								
Concrete Saw		No Use	20		96 46		0							

89.6 80.7 No No Concrete Saw 20 465 0 0 0 0 Excavator 40 465 No No 80.7 80.7 Excavator 40 465 Excavator 40 465 No No 40 40 81.7 81.7 465 465 0 Dozer Dozer

			Results										
		Calculated (dBA)		e Limits (dBA)		Night		Davi	Noise Lim	it Exceedand	ce (dBA)	Night	
Equipment		*Lmax Leq	Day Lmax Leq	Evenir Lmax	lg Leq	Night Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
Concrete Saw			2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		62.3 58.	3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		62.3 58.	3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	70.2 67.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loude	est value.										
			Receptor #4										
		Baselines (dBA)											
Description	Land Use	Daytime Evening	Night										
Single Family Home (E)	Residential	55 5	5 55										
			Equipment Spec Actu	al Recep	tor Estimated								
		Impact	Lmax Lma										
Description		Device Usage(%)			(dBA)								
Concrete Saw		5.()	0	89.6		0							
Excavator			0	80.7		0							
Excavator			0	80.7		0							
Excavator			0	80.7	410	0							
Dozer		No 4	0	81.7	410	0							
Dozer		No 4	0	81.7	410	0							
			Results										
		Calculated (dBA)	Nois	e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evenir	ng	Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			5 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			5 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			5 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	Total		4 N/A N/A 2 N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	TUIdi	*Calculated Lmax is the Loude		N/A	N/A	IN/A	N/A	IN/A	N/A	IN/A	N/A	N/A	IN/A
			Receptor #5										
		Baselines (dBA)											
Description	Land Use	Daytime Evening	Night										
Single Family Home (E)	Residential	55 5	5 55										
			Equipment										
			Spec Actu	al Recep									
		Impact	Lmax Lma		•								
Description		Device Usage(%)			(dBA)								
Concrete Saw		No 2		89.6		0							
Excavator Excavator			0 0	80.7 80.7		0 0							
Excavator			.0	80.7		0							
Dozer			.0	81.7		0							
Dozer			0	81.7		0							
		Calculated (dBA)	Results	e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
		. /	Day	Evenir	ng	Night		Day		Evening	. ,	Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	Total		4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	71.2 68. *Calculated Lmax is the Loude	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Galculated Lilldx IS the LOUGE	SI VOIUC.										

		Baselines (d	IBA)		Receptor #6											
Description	Land Use	Daytime	Evening	g Nig	ght											
Single Family Home (E)	Residential		55	55	55											
				Fo	uipment											
				Sp		al	Receptor	Estimate	d							
		Impact		Lm			Distance	Shielding	J							
Description		Device	Usage(BA) (dBA)		(feet)	(dBA)								
Concrete Saw Excavator		No		20		89.6			0 0							
Excavator		No No		40 40		80.7 80.7			0							
Excavator		No		40		80.7			0							
Dozer		No		40		81.7			0							
Dozer		No		40		81.7	7 47	0	0							
				Pc	sults											
		Calculated (dBA)	NC.		e Limit	s (dBA)					Noise Lim	t Exceedance	e (dBA)		
				Da			Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lm			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw Excavator				63.1 N/. 57.3 N/.			N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Excavator				57.3 N/.			N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A
Excavator				57.3 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.2	58.2 N/	A N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer				58.2 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	*Calculated	70.1 Lmax is the Lo	67 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Calculated	LINDA IS UIC LU		iuc.											
					Receptor #7											
Description	Landling	Baselines (d														
Description Retail Commercial (SE)	Land Use Commercial	Daytime	Evening 60	g Nig 60	jnt 60											
	oommoroidi		00	00	00											
					uipment		_									
		Impact		Sp Lm			Receptor Distance	Estimate Shielding								
Description		Device	Usage((feet)	(dBA)	,							
Concrete Saw		No		20	, (* ,	89.6			0							
Excavator		No		40		80.7			0							
Excavator		No		40		80.7			0							
Excavator Dozer		No No		40 40		80.7 81.7			0 0							
Dozer		No		40		81.7			0							
		Calculated (dBA)	Re	sults	l imit	s (dBA)					Noise Lim	it Exceedand	e (dBA)		
		ouloulutou (45719	Da		. 2000	Evening		Night		Day	HOIDO LIII	Evening	io (ubity	Night	
Equipment		*Lmax	Leq	Lm	iax Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			66	59 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator Excavator				53.2 N/. 53.2 N/.			N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Excavator				53.2 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer				54.1 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer				54.1 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	*Colculated	66 Lmax is the Lo	62.9 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Calculated			iuc.											
					Receptor #8											
Description	Land Use	Baselines (d		• NB	sht											
Description Single Family Home (S)	Residential	Daytime	Evenin 55) Nig 55	ייית 55											
					uipment											
		Impact		Sp Lm			Receptor Distance	Estimate Shielding								
Description		Impact Device	Usage((feet)	(dBA)	9							
Concrete Saw		No	90(20 20	, (,	, 89.6			0							
Excavator		No		40		80.7			0							
Excavator		No		40		80.7			0							
Excavator Dozer		No No		40 40		80.7 81.7			0 0							
Dozer		No		40		81.7			0							

			Results										
		Calculated (dBA)		e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evening		Night		Day		Evening	()	Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		70.1 63.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		61.2 57.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		61.2 57.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		61.2 57.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		62.2 58.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		9 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loude	est value.										
			Receptor #9 -										
		Baselines (dBA)	Receptor #7 -										
Description	Land Use	Daytime Evening	Night										
Single Family Home (S)	Residential	, ,	5 55										
			Equipment										
			Spec Actu		Estimated								
Description		Impact	Lmax Lmax		Shielding								
Description		Device Usage(%)		, , ,	(dBA)	0							
Concrete Saw			0	89.6 42		0							
Excavator			0	80.7 42		0							
Excavator Excavator			0	80.7 42		0							
			0	80.7 42		0							
Dozer			.0 .0	81.7 42 81.7 42		0							
Dozer		No 4	0	81.7 42	.1	0							
			Results										
		Calculated (dBA)		e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		71 6	4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		62.1 58.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		62.1 58.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		62.1 58.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		63 59.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		63 59.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	71 67.	8 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loude	est value.										
			Receptor #10										
		Baselines (dBA)	····· Receptor # 10										
Description	Land Use	Daytime Evening	Night										
Single Family Home (W)	Residential	55 5	5 55										
			Equipment										
			Spec Actu		Estimated								
Description		Impact	Lmax Lmax		Shielding								
Description		Device Usage(%) No 2	(dBA) (dBA		(dBA)	0							
Concrete Saw Excavator			.0	89.6 35 80.7 35		0							
Excavator			.0	80.7 35		0							
Excavator			.0	80.7 35		0							
Dozer			.0	81.7 35		0							
Dozer			0	81.7 35		0							
			-		-	-							
			Results										
		Calculated (dBA)		e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			6 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer Dozer			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DUZEI	Total		7 N/A N/A 4 N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	ισιαι	*Calculated Lmax is the Loude		N/A	IN/A	IN/PA	IN/PA	IW/PA	IN/PA	IN/PA	IN/PA	IN/PA	IN/A
		Salcalated Emax is the EUUUt	o, value.										

Report date: Case Description:	2/3/20 Paving Demo															
				Recepto	or #1											
Description	Lond Llco	Baselines (dBA)	oning	Night												
	Land Use		-	Night												
Single Family Home (NE)	Residential	55	55	55												
				Equipmont												
				Equipment	Astual		locontor	Fotimotod								
		Impact		Spec	Actual		Receptor	Estimated								
Description		Impact Device Us		Lmax (dBA)	Lmax (dBA)		Distance feet)	Shielding (dBA)								
Concrete Saw		No US	20 saye	(uDA)		89.6	683		0							
Excavator		No	40			80.7	683		0							
Excavator		No	40			80.7	683		0							
Excavator		No	40			80.7	683		0							
Dozer		No	40			81.7	683		0							
Dozer		No	40			81.7	683		0							
				Results												
		Calculated (dBA)			Noise I	Limits (dBA)					Noise Limit	Exceedance	(dBA)		
				Day			vening		Night		Day		Evening		Night	
Equipment		*Lmax Le		Lmax	Leq		.max	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		66.9	59.9		N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58		N/A	N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58		N/A	N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58		N/A	N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer Dozer		59 59		N/A N/A	N/A N/A		I/A I/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
DUZCI	Total	66.9	63.7		N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	rotar	*Calculated Lmax is th			14/7			1471	10/1	14/74	1471	14/7	14/74		1471	14/74
				Recepto	or #2											
		Baselines (dBA)														
Description Storage Eacility (N)	Land Use	Daytime Ev 65	-	Night												
Storage Facility (N)	Industrial	C0	65	65												
				Equipment												
				Spec	Actual	F	Receptor	Estimated								
		Impact		Lmax	Lmax		Distance	Shielding								
Description			sage(%)	(dBA)	(dBA)	(1	feet)	(dBA)								
Concrete Saw		No	20			89.6	680		0							
Excavator		No	40			80.7	680		0							
Excavator		No	40			80.7	680		0							
Excavator		No	40			80.7	680		0							
Dozer		No	40			81.7	680		0							
Dozer		No	40			81.7	680		0							
				Results												
		Calculated (dBA)			Noise I	Limits (dBA)					Noise Limit	Exceedance	(dBA)		
		· · · /		Day			vening		Night		Day		Evening		Night	
Equipment		*Lmax Le		Lmax	Leq		.max	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		66.9	59.9	N/A	N/A	Ν	I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58	54.1		N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58	54.1		N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		58	54.1		N/A		I/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		59		N/A	N/A		J/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	Total	59 66.9	55 63.8	N/A	N/A N/A		I/A I/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	TULAI	*Calculated Lmax is th			IN/A	IV	WA	IW/A	N/A	N/A	N/A	IN/A	IN/A	IN/A	N/A	N/A
		Saloaatou Emax 13 (I	200003													
				Recepto	or #3											
		Baselines (dBA)														
Description	Land Use	,		Night												
Single Family Home (E)	Residential	55	55	55												
				Equipment												
				Spec	Actual	F	Receptor	Estimated								
		Impact		Lmax	Lmax		Distance	Shielding								
Description				(dBA)	(dBA)		feet)	(dBA)								
Concrete Saw		No	20			89.6	465		0							

No No 20 40 89.6 80.7 Concrete Saw 465 0 0 0 0 Excavator 465 No No 80.7 80.7 80.7 Excavator 40 465 Excavator 40 465 No No 40 40 81.7 81.7 465 465 0 Dozer Dozer

			Results										
		Calculated (dBA)		e Limits (dBA)		Night		Davi	Noise Lim	it Exceedand	ce (dBA)	Night	
Equipment		*Lmax Leq	Day Lmax Leq	Evenir Lmax	lg Leq	Night Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
Concrete Saw			2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		62.3 58.	3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		62.3 58.	3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	70.2 67.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loude	est value.										
			Receptor #4										
		Baselines (dBA)											
Description	Land Use	Daytime Evening	Night										
Single Family Home (E)	Residential	55 5	5 55										
			Equipment Spec Actu	al Recep	tor Estimated								
		Impact	Lmax Lma										
Description		Device Usage(%)			(dBA)								
Concrete Saw		5.()	0	89.6		0							
Excavator			0	80.7		0							
Excavator			0	80.7		0							
Excavator			0	80.7	410	0							
Dozer		No 4	0	81.7	410	0							
Dozer		No 4	0	81.7	410	0							
			Results										
		Calculated (dBA)	Nois	e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evenir	ng	Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			5 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			5 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			5 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	Total		4 N/A N/A 2 N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	TUIdi	*Calculated Lmax is the Loude		N/A	N/A	IN/A	N/A	IN/A	N/A	IN/A	N/A	N/A	IN/A
			Receptor #5										
		Baselines (dBA)											
Description	Land Use	Daytime Evening	Night										
Single Family Home (E)	Residential	55 5	5 55										
			Equipment										
			Spec Actu	al Recep									
		Impact	Lmax Lma		•								
Description		Device Usage(%)			(dBA)								
Concrete Saw		No 2		89.6		0							
Excavator Excavator			0 0	80.7 80.7		0 0							
Excavator			.0	80.7		0							
Dozer			.0	81.7		0							
Dozer			0	81.7		0							
		Calculated (dBA)	Results	e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
		. /	Day	Evenir	ng	Night		Day		Evening	. ,	Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			3 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	Total		4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	71.2 68. *Calculated Lmax is the Loude	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Galculated Lilldx IS the LOUGE	SI VOIUC.										

		Baselines (d	IBA)		Receptor #6											
Description	Land Use	Daytime	Evening	g Nig	ght											
Single Family Home (E)	Residential		55	55	55											
				Fo	uipment											
				Sp		al	Receptor	Estimate	d							
		Impact		Lm			Distance	Shielding	J							
Description		Device	Usage(BA) (dBA)		(feet)	(dBA)								
Concrete Saw Excavator		No		20		89.6			0 0							
Excavator		No No		40 40		80.7 80.7			0							
Excavator		No		40		80.7			0							
Dozer		No		40		81.7			0							
Dozer		No		40		81.7	7 47	0	0							
				Pc	sults											
		Calculated (dBA)	NC.		e Limit	s (dBA)					Noise Lim	t Exceedance	e (dBA)		
				Da			Evening		Night		Day		Evening	,	Night	
Equipment		*Lmax	Leq	Lm			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw Excavator				63.1 N/. 57.3 N/.			N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Excavator				57.3 N/.			N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A
Excavator				57.3 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			62.2	58.2 N/	A N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer				58.2 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	*Calculated	70.1 Lmax is the Lo	67 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Calculated	LINDA IS UIC LU		iuc.											
					Receptor #7											
Description	Landling	Baselines (d														
Description Retail Commercial (SE)	Land Use Commercial	Daytime	Evening 60	g Nig 60	jnt 60											
	oommoroidi		00	00	00											
					uipment		_									
		Impact		Sp Lm			Receptor Distance	Estimate Shielding								
Description		Device	Usage((feet)	(dBA)	,							
Concrete Saw		No		20	, (* ,	89.6			0							
Excavator		No		40		80.7			0							
Excavator		No		40		80.7			0							
Excavator Dozer		No No		40 40		80.7 81.7			0 0							
Dozer		No		40		81.7			0							
		Calculated (dBA)	Re	sults	l imit	s (dBA)					Noise Lim	it Exceedand	e (dBA)		
		ouloulutou (45719	Da		. 20100	Evening		Night		Day	HOIDO LIII	Evening	io (ubity	Night	
Equipment		*Lmax	Leq	Lm	iax Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			66	59 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator Excavator				53.2 N/. 53.2 N/.			N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Excavator				53.2 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer				54.1 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer				54.1 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	*Colculated	66 Lmax is the Lo	62.9 N/			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Calculated	LINDA IS UIC LU		iuc.											
					Receptor #8											
Description	Land Use	Baselines (d		• NB	sht											
Description Single Family Home (S)	Residential	Daytime	Evenin 55) Nig 55	ןות 55											
					uipment											
		Impact		Sp Lm			Receptor Distance	Estimate Shielding								
Description		Impact Device	Usage((feet)	(dBA)	9							
Concrete Saw		No	90(20	, (,	, 89.6			0							
Excavator		No		40		80.7			0							
Excavator		No		40		80.7			0							
Excavator Dozer		No No		40 40		80.7 81.7			0 0							
Dozer		No		40		81.7			0							

			Results										
		Calculated (dBA)		e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evening		Night		Day		Evening	()	Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		70.1 63.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		61.2 57.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		61.2 57.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		61.2 57.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		62.2 58.	2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			2 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		9 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loude	est value.										
			Receptor #9 -										
		Baselines (dBA)	Receptor #7 -										
Description	Land Use	Daytime Evening	Night										
Single Family Home (S)	Residential	, ,	5 55										
			Equipment										
			Spec Actu		Estimated								
Description		Impact	Lmax Lmax		Shielding								
Description		Device Usage(%)		, , ,	(dBA)	0							
Concrete Saw			0	89.6 42		0							
Excavator			0	80.7 42		0							
Excavator Excavator			0	80.7 42		0							
			0	80.7 42		0							
Dozer			.0 .0	81.7 42 81.7 42		0							
Dozer		No 4	0	81.7 42	.1	0							
			Results										
		Calculated (dBA)		e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		71 6	4 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		62.1 58.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		62.1 58.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		62.1 58.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		63 59.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		63 59.	1 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	71 67.	8 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is the Loude	est value.										
			Receptor #10										
		Baselines (dBA)	····· Receptor # 10										
Description	Land Use	Daytime Evening	Night										
Single Family Home (W)	Residential	55 5	5 55										
			Equipment										
			Spec Actu		Estimated								
Description		Impact	Lmax Lmax		Shielding								
Description		Device Usage(%) No 2	(dBA) (dBA		(dBA)	0							
Concrete Saw Excavator			.0	89.6 35 80.7 35		0							
Excavator			.0	80.7 35		0							
Excavator			.0	80.7 35		0							
Dozer			.0	81.7 35		0							
Dozer			0	81.7 35		0							
			-		-	-							
			Results										
		Calculated (dBA)		e Limits (dBA)					Noise Lim	it Exceedand	ce (dBA)		
			Day	Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw			6 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer Dozer			7 N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DUZEI	Total		7 N/A N/A 4 N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	ισιαι	*Calculated Lmax is the Loude		N/A	IN/A	IN/PA	IN/PA	IW/PA	IN/PA	IN/PA	IN/PA	IN/PA	IN/A
		Salcalated Emax is the EUUUt	o, value.										

Report date: Case Description:	2/3/201 Grading	5										
	Ū.											
			Rece	eptor #1	-							
		Baselines (dBA)										
Description	Land Use	Daytime Evenin										
Single Family Home (NE)	Residential	55	55	55								
			Equipme	ont								
			Spec	Actua	I Recep	otor Estima	ated					
		Impact	Lmax	Lmax								
Description		Device Usage((dBA)		(dBA)	5					
Excavator		No	40		80.7	683	0					
Grader		No	40	85		683	0					
Dozer		No	40		81.7	683	0					
Tractor		No	40	84		683	0					
Backhoe		No	40		77.6	683	0					
Backhoe		No	40		77.6	683	0					
			Results									
		Calculated (dBA)		Noise	Limits (dBA)					Noise Lir	nit Exceedan	ce (dBA)
			Day		Eveni	ng	Night		Day		Evening	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator			59.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader		58	54 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		58	54 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor Backhoe		58 59	54 N/A 55 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Backhoe		59	55 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Duolatio	Total		63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax is	the Loudest v	/alue.								
		Pacolinos (dPA)	Rece	eptor #2								
Description	Land Use	Baselines (dBA) Daytime Evenin	g Night									
Storage Facility (N)	Industrial	65	65 65	65								
0 9.1.												
			Equipme									
			Spec	Actua								
Description		Impact	Lmax	Lmax			ing					
Description Excavator		Device Usage(No	(%) (dBA) 40	(dBA)	(feet) 80.7	(dBA) 680	0					
Grader		No	40	85	00.7	680	0					
Dozer		No	40	00	81.7	680	0					
Tractor		No	40	84		680	0					
Backhoe		No	40		77.6	680	0					
Backhoe		No	40		77.6	680	0					
			Results									
		Calculated (dBA)	Results	Noise	Limits (dBA)					Noise Lir	nit Exceedan	ce (dBA)
		ouloulutou (up) (Day	10000	Eveni	ng	Night		Day	Tioloo Lii	Evening	00 (abri)
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		66.9	59.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader			54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		59	55 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	Total	59 66.9	55 N/A 63.8 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	IUIdi	*Calculated Lmax is			IN/A	IN/A	N/A	IN/A	IN/A	N/A	IWA	N/A
		Sulculated EnidA 13	and Louucal V	aluc.								

Night Lmax

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Night

Lmax

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Leq

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Leq

N/A

N/A

N/A

N/A

N/A

N/A

N/A

		Baselines (df	BA)	Rec	ceptor #3	-								
Description Single Family Home (E)	Land Use Residential	Daytime I 55	Evening 55	Night	55									
				Equipm										
				Spec	Actua		Receptor	Estimated						
		Impact		Lmax	Lmax		Distance	Shielding						
Description			Usage(%)	(dBA)	(dBA)		(feet)	(dBA)						
Excavator		No	40			80.7		65	0					
Grader		No	40		85	01.7		65	0					
Dozer Tractor		No	40		0.4	81.7		65 (F	0					
Backhoe		No	40		84	77.6		65 65	0 0					
Backhoe		No No	40 40			77.6		65	0					
				Results	;									
		Calculated (d	IBA)		Noise	Limits	(dBA)					Noise Li	mit Exceedan	ce (dB
				Day			Evening		Night		Day		Evening	
Equipment		*Lmax I	Leq	Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Le
Excavator		70.2	. 63.2	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/.
Grader		61.3	57.4	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Dozer		61.3	57.4	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Tractor		61.3	57.4	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Backhoe		62.3	58.3	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Backhoe		62.3	58.3	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
	Total	70.2	67.1	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
		*Calculated L	max is the l	Loudest	value.									
		Baselines (dB	30)	Rec	ceptor #4	-								
Description	Land Use		Evening	Night										
Single Family Home (E)	Residential	55	55		55									
				Equipm	ient									
				Spec	Actua	I	Receptor	Estimated	b					
		Impact		Lmax	Lmax		Distance	Shielding						
Description		Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)						
Excavator		No	40			80.7	4	10	0					
Grader		No	40		85		4	10	0					
Dozer		No	40			81.7	4	10	0					
Tractor		No	40		84		4	10	0					
Backhoe		No	40			77.6	4	10	0					
Backhoe		No	40			77.6	4	10	0					
		Calculated (d	IRA)	Results		Limite	s (dBA)					Noiso Li	mit Exceedan	co (dB
		Calculated (U	ionj	Day	NUISE	L111(3	Evening		Night		Day	NUISE LI	Evening	uc (uD
Equipment		*Lmax I	Leq	Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Le
Excavator		71.3	64.3		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Grader		62.4	58.5		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Dozer		62.4	58.5		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Tractor		62.4	58.5		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Backhoe		63.4	59.4		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Backhoe		63.4	59.4		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
	Total	71.3	68.2		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
		*Calculated L												
		D		Rec	ceptor #5									
		Baselines (dE	3A)											

Night

Lmax

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Night

Lmax

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Leq

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Leq

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Baselines (dBA) Daytime Evening Night 55 55 55 Land Use Description Single Family Home (E) Residential

			Equipme	ent				
			Spec	Actual		Receptor	Estimated	
	Impact		Lmax	Lmax		Distance	Shielding	
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)	
Excavator	No	40			80.7	413	0	
Grader	No	40		85		413	0	
Dozer	No	40			81.7	413	0	
Tractor	No	40		84		413	0	
Backhoe	No	40			77.6	413	0	
Backhoe	No	40			77.6	413	0	

			Results											
		Calculated (dBA)			imits (dBA)					Noise Li	mit Exceedan	ce (dBA)		
			Day		Evening	9	Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		71.2	64.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader		62.4	58.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		62.4	58.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		62.4	58.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		63.3	59.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	Total	63.3 71.2	59.4 N/A 68.1 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	TULAI	*Calculated Lmax i			IN/A	IN/A	IN/A	N/A	IN/A	N/A	N/A	IN/A	IN/A	IN/A
			Rec	eptor #6										
		Baselines (dBA)												
Description	Land Use	Daytime Evenir	0 0											
Single Family Home (E)	Residential	55	55	55										
			Equipm	ont										
			Equipm Spec	Actual	Recept	or Estimat	ha							
		Impact	Lmax	Lmax	Distanc									
Description		Device Usage		(dBA)	(feet)	(dBA)	19							
Excavator		No	40			470	0							
Grader		No	40	85		470	0							
Dozer		No	40		81.7	470	0							
Tractor		No	40	84		470	0							
Backhoe		No	40		77.6	470	0							
Backhoe		No	40		77.6	470	0							
			Results		(IDA)									
		Calculated (dBA)	Dav	NOISE L	imits (dBA)		Night		Dav	Noise Li	mit Exceedan	ce (ara)	Night	
Equipment		*Lmax Leq	Day Lmax	Log	Evening Lmax	, ,	Night Lmax	Log	Day Lmax	Log	Evening Lmax	Log	Night Lmax	Log
Excavator		20.1	63.1 N/A	Leq N/A	N/A	Leq N/A	N/A	Leq N/A	N/A	Leq N/A	N/A	Leq N/A	N/A	Leq N/A
Grader		61.2	57.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		61.2	57.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		61.2	57.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		62.2	58.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		62.2	58.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	70.1	67 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax i	s the Loudest	value.										
		Baselines (dBA)	Rec	eptor #7										
Description	Land Use	Daytime Evenir	ng Night											
Retail Commercial (SE)	Commercial	60	60	60										
			Equipm	ent										
			Spec	Actual	Recept	or Estimat	ed							
		Impact	Lmax	Lmax	Distanc		ng							
Description		Device Usage		(dBA)	(feet)	(dBA)								
Excavator		No	40		80.7	753	0							
Grader		No	40 40	85	81.7	753 753	0 0							
Dozer Tractor		No No	40 40	84	51.7	753 753	0							
Backhoe		No	40 40		77.6	753	0							
Backhoe		No	40		77.6	753	0							
Basimoo			10				0							
			Results											
		Calculated (dBA)		Noise L	imits (dBA)					Noise Li	mit Exceedan	ce (dBA)		
			Day		Evening	9	Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		66	59 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader		57.2	53.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		57.2	53.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor Backhoe		57.2 58.1	53.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		58.1 58.1	54.1 N/A 54.1 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
DUCNIUC	Total	56.T	62.9 N/A	N/A N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A
	TOLAT	*Calculated Lmax i			11/74	11/71	13/75	11/7	19/75	1977	19/75	11/71	19/75	11/17
		Salouatou Emari												

		Baselines (dBA)	Re	ceptor #8										
Description	Land Use	Daytime Ever	ning Night											
Single Family Home (S)	Residential	55	55	55										
			Equipr	nent										
			Spec	Actual	Receptor	Estimated	I							
		Impact	Lmax	Lmax	Distance	Shielding								
Description			ge(%) (dBA)	(dBA)	(feet)	(dBA)								
Excavator Grader		No	40 40	85		72 72	0 0							
Dozer		No No	40 40			72	0							
Tractor		No	40	84		72	0							
Backhoe		No	40			72	0							
Backhoe		No	40	7	7.6 4	72	0							
			Result											
		Calculated (dBA)		Noise Li	mits (dBA)					Noise Lir	nit Exceedar	nce (dBA)		
Fauinmont		*Lmax Leq	Day	Log	Evening	Log	Night	Log	Day	Log	Evening	1.07	Night	1.00
Equipment Excavator		*Lmax Leq 70.1	Lmax 63.1 N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A	Lmax N/A	Leq N/A
Grader		61.2	57.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		61.2	57.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		61.2	57.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		62.2	58.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		62.2	58.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	70.1	66.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax	is the Loudest	value.										
			Re	ceptor #9										
		Baselines (dBA)												
Description	Land Use	Daytime Ever	ning Night											
Single Family Home (S)	Residential	55	55	55										
			Equipn		Decenter	E allan ata a								
		Impost	Spec	Actual	Receptor	Estimated	1							
Description		Impact Device Usa	Lmax ge(%) (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)								
Excavator		No USU	40			27	0							
Grader		No	40	85		27	0							
Dozer		No	40	8	31.7 42	27	0							
Tractor		No	40	84	42	27	0							
Backhoe		No	40			27	0							
Backhoe		No	40	7	7.6 42	27	0							
			Result	2										
		Calculated (dBA)			mits (dBA)					Noise Lir	nit Exceedar	nce (dBA)		
			Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		62.1	58.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader		66.4	62.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		63	59.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		65.4	61.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe Backhoe		58.9 58.9	55 N/A 55 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
DUCKING	Total	58.9 66.4	67.2 N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N/A
		*Calculated Lmax												
			Re	ceptor #10										
5		Baselines (dBA)												
Description Single Family Home (W)	Land Use Residential	Daytime Ever 55	ning Night 55	55										
Single ramity frome (W)	Residential	22	00	00										
			Equipr	nent										
			Spec	Actual	Receptor	Estimated	I							
		Impact	Lmax	Lmax	Distance	Shielding								

		Spec	Actual	Receptor	Estimated
	Impact	Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%) (dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40	80).7 355	5 0
Grader	No	40	85	355	5 0
Dozer	No	40	81	1.7 355	5 0
Tractor	No	40	84	355	5 0
Backhoe	No	40	77	7.6 355	5 0
Backhoe	No	40	77	7.6 355	5 0

				Results											
		Calculate	d (dBA)		Noise Li	imits (dBA)					Noise Li	mit Exceedan	ce (dBA)		
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		72	2.6	65.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader		63	3.7	59.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		63	3.7	59.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		63	3.7	59.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		64	4.6	60.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		64	4.6	60.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	72	2.6	69.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculate	ed Lmax	is the Loudest v	alue.										

2/3/2015

Report date:

Case Description:	2/3/201 Building Cor													
		Decelines		Rec	eptor #1									
Description	Land Use	Baselines Daytime	(aBA) Evening	Night										
Single Family Home (NE)	Residential	,	5 55		55									
				Equipm										
				Spec	Actua		Receptor	Estimated						
		Impact		Lmax	Lmax		Distance	Shielding						
Description Crane		Device	Usage(%) 16	(dBA)	(dBA)	80.6	(feet) 68	(dBA)	0					
All Other Equipment > 5 HP		No No	50		85	00.0	68		0					
All Other Equipment > 5 HP		No	50		85		68		0					
All Other Equipment > 5 HP		No	50		85		68		0					
Generator		No	50			80.6	68		0					
Backhoe		No	40)		77.6	68	33	0					
Backhoe		No	40)		77.6	68		0					
Tractor		No	40		84		68		0					
Welder / Torch		No	40)		74	68	33	0					
				Results										
		Calculated	l (dBA)	noouno		Limits	(dBA)					Noise Li	imit Exceedan	ce (dB
				Day			Evening		Night		Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leo
Crane		57		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		62		BN/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		62		BN/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP Generator		62 57		8 N/A 9 N/A	N/A N/A		N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Backhoe		54) N/A	N/A		N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		54		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		61		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch		51	.3 47.3	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	62	.3 65.8 d Lmax is the	B N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Dee										
		Baselines	(dBA)	Rec	eptor #2									
Description	Land Use	Daytime	Evening	Night										
Storage Facility (N)	Industrial	e	65 65	5	65									
				Equipm	ent									
				Spec	Actua	l	Receptor	Estimated						
		Impact		Lmax	Lmax		Distance	Shielding						
Description		Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)						
Crane		No	16		05	80.6	68		0					
All Other Equipment > 5 HP All Other Equipment > 5 HP		No No	50 50		85 85		68 68		0 0					
All Other Equipment > 5 HP		No	50		85		68		0					
Generator		No	50			80.6	68		0					
Backhoe		No	40			77.6	68		0					
Backhoe		No	40)		77.6	68	30	0					
Tractor		No	40		84		68		0					
Welder / Torch		No	40)		74	68	30	0					
				Results										
		Calculated	d (dBA)	Davi	Noise	Limits			NULLA		Davi	Noise Li	imit Exceedan	ce (dB/
Equipment		*Lmax	Leq	Day Lmax	Log		Evening	Log	Night Lmax	Log	Day Lmax	Log	Evening Lmax	Loc
Equipment Crane		Liliax 57		N/A	Leq N/A		Lmax N/A	Leq N/A	N/A	Leq N/A	N/A	Leq N/A	N/A	Lei N//
All Other Equipment > 5 HP		62		N/A	N/A		N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		62		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N//
All Other Equipment > 5 HP		62		8 N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N//
Generator				N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/.
Backhoe		54		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/.
Backhoe		54		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N//
Tractor		61		BN/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	Total	51 62		8 N/A 8 N/A	N/A N/A		N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	rotal		d Lmax is the				11/17	19/75	19/75	13/75	11/71	11/14	19/75	IN/A
		- around to												

Night

Lmax

N/A

Night

Lmax

N/A

Leq N/A

N/A

N/A

N/A N/A

N/A

N/A

N/A

N/A

N/A

Leq N/A N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

			Re	ceptor #3
		Baselines (dBA)		
Description	Land Use	Daytime Evening	Night	
Single Family Home (E)	Residential	55	55	55

			Equipm	ent			
			Spec	Act	Jal	Receptor	Estimated
	Impact		Lmax	Lma	ах	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dB	A)	(feet)	(dBA)
Crane	No	16	5		80.6	465	0
All Other Equipment > 5 HP	No	50)	85		465	0
All Other Equipment > 5 HP	No	50)	85		465	0
All Other Equipment > 5 HP	No	50)	85		465	0
Generator	No	50)		80.6	465	0
Backhoe	No	40)		77.6	465	0
Backhoe	No	40)		77.6	465	0
Tractor	No	40)	84		465	0
Welder / Torch	No	40)		74	465	0

			Results											
	Calculate	d (dBA)		Noise Lim	nits (dBA)					Noise Lir	nit Exceedan	ce (dBA)		
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	6	1.2	53.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	6	5.6	62.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	6	5.6	62.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	6	5.6	62.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	6	1.3	58.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	5	8.2	54.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	5	8.2	54.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	6	4.6	60.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	54	4.6	50.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
To	otal 6	5.6	69.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.	
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				Re	ceptor #4
		Baselines	(dBA)		
Description	Land Use	Daytime	Evening	Night	
Single Family Home (E)	Residential	5	5	55	55

			Equipm Spec	Actua	ıl	Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16			80.6	410	0
All Other Equipment > 5 HP	No	50		85		410	0
All Other Equipment > 5 HP	No	50		85		410	0
All Other Equipment > 5 HP	No	50		85		410	0
Generator	No	50			80.6	410	0
Backhoe	No	40			77.6	410	0
Backhoe	No	40			77.6	410	0
Tractor	No	40		84		410	0
Welder / Torch	No	40			74	410	0

			Results											
	Calculat	ed (dBA)		Noise Limits	s (dBA)					Noise Limit	Exceedance	(dBA)		
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	6	2.3 5	54.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	6	6.7 6	53.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	6	6.7 6	53.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	6	6.7 6	53.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	6	2.4 5	59.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	5	9.3 5	55.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	5	9.3 5	55.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	6	i5.7 θ	61.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	5	5.7 5	51.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tota	n e	6.7 7	70.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calcula	tod I may is	the Loudest valu	<u>^</u>										

				Re	ceptor #5	
		Baselines (dBA)			
Description	Land Use	Daytime	Evening	Night		
Single Family Home (E)	Residential	55	5	55	55	

			Equipm	ent			
			Spec		Actual	Receptor	Estimated
	Impact		Lmax	l	max	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16			80.6	413	0
All Other Equipment > 5 HP	No	50		85		413	0
All Other Equipment > 5 HP	No	50		85		413	0
All Other Equipment > 5 HP	No	50		85		413	0
Generator	No	50			80.6	413	0
Backhoe	No	40			77.6	413	0
Backhoe	No	40			77.6	413	0
Tractor	No	40		84		413	0
Welder / Torch	No	40			74	413	0

		Resul	ts										
	Calculated	d (dBA)	Noise L	imits (dBA)					Noise Li	mit Exceedan	ce (dBA)		
		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	62	2.2 54.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66	63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66	6.7 63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66	63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	62	2.3 59.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	59	9.2 55.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	59	9.2 55.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	65	5.7 61.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	55	5.7 51.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	66	5.7 70.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculate	ed Lmax is the Loudes	t value.										

					Rece	ptor #6
		Baselines ((dBA)			
Description	Land Use	Daytime	Evening		Night	
Single Family Home (E)	Residential	5	5	55		55

Equipment Spec Actual Receptor Estimated Distance Shielding Impact Lmax Lmax Usage(%) (dBA) Description Device (dBA) (feet) (dBA) Crane No 16 80.6 470 0 All Other Equipment > 5 HP 85 470 No 50 0 All Other Equipment > 5 HP No 50 85 470 0 All Other Equipment > 5 HP No 50 85 470 0 50 80.6 No Generator 470 0 Backhoe No 40 77.6 470 0 Backhoe No 40 77.6 470 0 84 Tractor No 40 470 0 74 Welder / Torch No 40 470 0

		Results											
	Calculated (BA)	Noise Li	imits (dBA)					Noise Li	mit Exceedar	ice (dBA)		
		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	61.1	53.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	61.2	58.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	58.1	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	58.1	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	64.5	60.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	54.5	50.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	65.5	69 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculated	may is the Loudost w	oule										

					Recep	itor #7
		Baselines (dBA)			
Description	Land Use	Daytime	Evening		Night	
Retail Commercial (SE)	Commercial	60)	60	6	50

			Equipm	ent			
			Spec	Actu	al	Receptor	Estimated
	Impact		Lmax	Lma	ĸ	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16)		80.6	753	0
All Other Equipment > 5 HP	No	50)	85		753	0
All Other Equipment > 5 HP	No	50)	85		753	0
All Other Equipment > 5 HP	No	50)	85		753	0
Generator	No	50)		80.6	753	0
Backhoe	No	40)		77.6	753	0
Backhoe	No	40)		77.6	753	0
Tractor	No	40)	84		753	0
Welder / Torch	No	40)		74	753	0

Tractor	No	40	84		753	0								
Welder / Torch	No	40		74	753	0								
		Results												
	Calculated (d	IBA)	Noise L	imits (dBA)					Noise Li	mit Exceedar	ice (dBA)			
		Day		Evening	J	Night		Day		Evening		Night		
Equipment	*Lmax I	Leq Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Crane	57	49 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP	61.4	58.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP	61.4	58.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP	61.4	58.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Generator	57.1	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Backhoe	54	50 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Backhoe	54	50 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor	60.4	56.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Welder / Torch	50.4	46.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total	61.4	64.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	*Calculated L	max is the Loudest	value.											

					Receptor #8
		Baselines (dBA)		
Description	Land Use	Daytime	Evening		Night
Single Family Home (S)	Residential	55		55	55

Description	Impact Device	Equi Spe Lma Usage(%) (dB/	x Lm	ах	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	472	0
All Other Equipment > 5 HP	No	50	85		472	0
All Other Equipment > 5 HP	No	50	85		472	0
All Other Equipment > 5 HP	No	50	85		472	0
Generator	No	50		80.6	472	0
Backhoe	No	40		77.6	472	0
Backhoe	No	40		77.6	472	0
Tractor	No	40	84		472	0
Welder / Torch	No	40		74	472	0

		Results											
	Calculated (dBA)	Noise Li	imits (dBA)					Noise Li	mit Exceedar	nce (dBA)		
		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	61.1	53.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	61.1	58.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	58.1	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	58.1	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	64.5	60.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	54.5	50.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	65.5	69 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Colculated	I may is the Loudost i	aluo										

			Rec	eptor #9
		Baselines (dBA)		
Description	Land Use	Daytime Evening	g Night	
Single Family Home (S)	Residential	55	55	55

			Equipm	ent			
			Spec		Actual	Receptor	Estimated
	Impact		Lmax		Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	((dBA)	(feet)	(dBA)
Crane	No	16			80.6	427	0
All Other Equipment > 5 HP	No	50	1	85		427	0
All Other Equipment > 5 HP	No	50	1	85		427	0
All Other Equipment > 5 HP	No	50	1	85		427	0
Generator	No	50	1		80.6	427	0
Backhoe	No	40	1		77.6	427	0
Backhoe	No	40	1		77.6	427	0
Tractor	No	40	1	84		427	0
Welder / Torch	No	40	1		74	427	0

		Results											
	Calculated (dBA)	Noise L	imits (dBA)					Noise Li	mit Exceedar	ice (dBA)		
		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	61.9	54 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66.4	63.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66.4	63.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66.4	63.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	62	59 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	58.9	55 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	58.9	55 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	65.4	61.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	55.4	51.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	66.4	69.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculated I	Lmax is the Loudest v	alue.										

					Receptor #10
		Baselines (dBA)		
Description	Land Use	Daytime	Evening		Night
Single Family Home (W)	Residential	55	5	55	55

Equipment Spec Actual Receptor Estimated Distance Shielding Impact Lmax Lmax Usage(%) (dBA) (dBA) Description Device (dBA) (feet) Crane No 16 80.6 355 0 All Other Equipment > 5 HP 85 355 No 50 0 All Other Equipment > 5 HP No 50 85 355 0 All Other Equipment > 5 HP No 50 85 355 0 50 80.6 No 355 Generator 0 Backhoe No 40 77.6 355 0 Backhoe No 40 77.6 355 0 84 Tractor No 40 355 0 74 Welder / Torch No 40 355 0

		Results											
	Calculated (dBA	.)	Noise Li	imits (dBA)					Noise Li	mit Exceedar	ice (dBA)		
		Day	Evening			Night		Day		Evening		Night	
Equipment	*Lmax Leo	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	63.5	55.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	68	65 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	68	65 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	68	65 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	63.6	60.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	60.5	56.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	60.5	56.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	67	63 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	57	53 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	68	71.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculated Lma	ix is the Loudest v	alue.										

Report date: Case Description:	2/3/201 Paving	5										
Description	Land Use Residential	Baselines (dBA) Daytime Even 55		eceptor #1 55	-							
Single Family Home (NE)	Residential	00	55	00								
			Equip		L Decente	E atima at	- 4					
		Impact	Spec Lmax	Actua Lmax		Estimat Shieldir						
Description		Device Usag		(dBA)		(dBA)	5					
Paver		No	50		77.2 6	83	0					
Paver		No	50			83	0					
All Other Equipment > 5 HP		No No	50 50	85 85		83 83	0 0					
All Other Equipment > 5 HP Roller		No	20	60		63 83	0					
Roller		No	20			83	0					
			Resul	łc.								
		Calculated (dBA)	Resu		Limits (dBA)					Noise Lin	nit Exceedand	ce (dBA)
			Day		Evening		Night		Day		Evening	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		54.5	51.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver		54.5	51.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP All Other Equipment > 5 HP		62.3 62.3	59.3 N/A 59.3 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Roller		57.3	50.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		57.3	50.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	62.3	63.4 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax	is the Loudes	st value.								
			Re	eceptor #2	-							
		Baselines (dBA)										
Description	Land Use	Daytime Even										
Storage Facility (N)	Industrial	65	65	65								
			Equip	ment								
			Spec	Actua	I Recepto	Estimat	ed					
		Impact	Lmax	Lmax		Shieldir	ıg					
Description		Device Usag		(dBA)		(dBA)	0					
Paver Paver		No No	50 50			80 80	0 0					
All Other Equipment > 5 HP		No	50	85		80	0					
All Other Equipment > 5 HP		No	50	85		80	0					
Roller		No	20		80 6	80	0					
Roller		No	20		80 6	80	0					
			Resul	ts								
		Calculated (dBA)		Noise	Limits (dBA)					Noise Lin	nit Exceedand	e (dBA)
			Day		Evening		Night		Day		Evening	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver Paver		57.9 62.3	49.9 N/A 59.3 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
All Other Equipment > 5 HP		62.3	59.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		62.3	59.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		58	54.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		54.9	50.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	62.3 *Calculated Lmax	65.8 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Night

Lmax

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Night

Lmax

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Leq

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Leq

N/A N/A

N/A

N/A

N/A

N/A

N/A

	Baselines (dBA)	Receptor #3									
Description Land Use	Daytime Evening	Night									
Single Family Home (E) Residenti	al 55 !	55 55									
		Equipment									
		Spec Actu									
Description	Impact Device Usage(%)	Lmax Lma) (dBA) (dBA		Shielding (dBA)							
Paver	• • •	50 (UDA) (UDA)		(dDA) 165 0							
Paver		50		65 0							
All Other Equipment > 5 HP		50 85		165 0							
All Other Equipment > 5 HP		50 85		165 O							
Roller Roller		20 20		165 0 165 0							
Noici	110	20	00 1	000							
	Coloulated (dDA)	Results	a Limita (dDA)				Noice Limi	t Evenedance			
	Calculated (dBA)	Day	se Limits (dBA) Evening	N	light	Day	NOISE LIM	t Exceedance Evening	(dBA)	Night	
Equipment	*Lmax Leq	Lmax Leq	-		max Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	61.2 53	3.2 N/A N/A	N/A	N/A N	I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver		2.6 N/A N/A			I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		2.6 N/A N/A			I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP Roller		2.6 N/A N/A 3.3 N/A N/A			I/A N/A I/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Roller		1.2 N/A N/A			I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	65.6 69	0.1 N/A N/A	N/A	N/A N	I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculated Lmax is th	e Loudest value.									
		Receptor #4									
	Baselines (dBA)										
Description Land Use Single Family Home (E) Residenti	, , , , , , , , , , , , , , , , , , , ,	Night 55 55									
	ai 35 .	33 33									
		Equipment		F							
	Impact	Spec Actu Lmax Lma									
Description	Device Usage(%)			(dBA)							
Paver	• • •	50		10 0							
Paver		50		10 0							
All Other Equipment > 5 HP		50 85		10 0							
All Other Equipment > 5 HP Roller		50 85 20		10 0 10 0							
Roller		20		10 0							
		Results									
	Calculated (dBA)		se Limits (dBA)				Noise Limi	t Exceedance	(dBA)		
		Day	Evening	N	light	Day		Evening		Night	
Equipment	*Lmax Leq	Lmax Leq			max Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		1.3 N/A N/A			I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver All Other Equipment > 5 HP		8.7 N/A N/A 8.7 N/A N/A			I/A N/A I/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
All Other Equipment > 5 HP		3.7 N/A N/A			I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		0.3 N/A N/A	N/A	N/A N	I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		5.3 N/A N/A			I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	66.7 70 *Calculated Lmax is th).2 N/A N/A	N/A	N/A N	I/A N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Baselines (dBA)	Receptor #5									
Description Land Use		Night									
Single Family Home (E) Residenti	, , , , , , , , , , , , , , , , , , , ,	55 55									
		Faultana									
		Equipment Spec Actu	ual Receptor	Estimated							
	Impact	Lmax Lma									
Description	Device Usage(%)			(dBA)							
Paver		50		113 0							
Paver All Other Equipment > 5 HP		50 50 85		13 0 13 0							
All Other Equipment > 5 HP		50 85 50 85		13 0							
Roller		20		113 0							
Roller	No	20	80 4	13 0							

			Desulta											
		Calculated (dBA)	Results	Noise L	imits (dBA)					Noise Li	mit Exceedar	ice (dBA)		
			Day		Evening	1	Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		62.2	54.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver		66.7	63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		66.7	63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		66.7	63.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		62.3	59.3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	Tetel	59.2	55.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	66.7 *Calculated Lmax	70.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Calculated Ental	CIS THE LOUDEST	value.										
			Rec	eptor #6										
		Baselines (dBA)												
Description	Land Use	Daytime Ever												
Single Family Home (E)	Residential	55	55	55										
			E au da au											
			Equipm Spec	ent Actual	Decent	or Estimate	- d							
		Impact	Lmax	Lmax	Recepto Distanco									
Description			ge(%) (dBA)	(dBA)	(feet)	(dBA)	9							
Paver		No	50			470	0							
Paver		No	50			470	0							
All Other Equipment > 5 HP		No	50	85		470	0							
All Other Equipment > 5 HP		No	50	85		470	0							
Roller		No	20			470	0							
Roller		No	20		80	470	0							
			Results											
		Calculated (dBA)		Noise I	imits (dBA)					Noise Li	mit Exceedar	ice (dBA)		
			Day		Evening	1	Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		61.1	53.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver		65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		65.5	62.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		61.2	58.2 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	Total	58.1 65.5	54.1 N/A 69 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	TOTAL	*Calculated Lmax			D//A	IN/A	IW/A	IN/A	IN/A	IW/A	N/A	IN/A	D/A	IN/A
		Salodiatoù Elila,		value.										
			Rec	eptor #7										
		Baselines (dBA)												
Description	Land Use	Daytime Ever		10										
Retail Commercial (SE)	Commercial	60	60	60										
			Equipm	ent										
			Spec	Actual	Recepto	or Estimate	ed							
		Impact	Lmax	Lmax	Distanc									
Description		Device Usag	ge(%) (dBA)	(dBA)	(feet)	(dBA)								
Paver		No	50			753	0							
Paver		No	50			753	0							
All Other Equipment > 5 HP		No	50	85		753	0							
All Other Equipment > 5 HP Roller		No No	50 20	85		753 753	0 0							
Roller		No	20			753	0							
Konor		110	20		00		0							
			Results											
		Calculated (dBA)		Noise L	imits (dBA)					Noise Li	mit Exceedar	ice (dBA)		
			Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		57	49 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver All Other Equipment > 5 HP		61.4 61.4	58.4 N/A 58.4 N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
All Other Equipment > 5 HP		61.4	58.4 N/A 58.4 N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A
Roller		57.1	54.1 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller		54	50 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	61.4	64.9 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		*Calculated Lmax	is the Loudest	value.										

		Decenter #0								
	Baselines (dBA)	Receptor #8								
Description Land Use	Daytime Evening Nigl	nt								
Single Family Home (S) Residential	55 55	55								
	Equ	ipment								
	Spe			Estimated						
Description	Impact Lma Device Usage(%) (dB			Shielding (dBA)						
Paver	No 50	-y (db/) 77.2		0						
Paver	No 50	77.2	2 472	0						
All Other Equipment > 5 HP	No 50	85	472	0						
All Other Equipment > 5 HP Roller	No 50 No 20	85	472 0 472	0 0						
Roller	No 20	80		0						
	Res Calculated (dBA)	ults Noise Limit	ts (dBA)			N	oise Limit Ex	ceedance (dBA)		
	Day		Evening	Night	I	Day		vening	Night	
Equipment	*Lmax Leq Lma			_eq Lmax		Lmax Le		max Leq		Leq
Paver	61.1 53.1 N/A			N/A N/A		N/A N/		A N/A		N/A
Paver All Other Equipment > 5 HP	65.5 62.5 N/A 65.5 62.5 N/A	N/A N/A		V/A N/A V/A N/A		N/A N/ N/A N/		/A N/A /A N/A		N/A N/A
All Other Equipment > 5 HP	65.5 62.5 N/A			V/A N/A		N/A N/		/A N/A		N/A
Roller	61.1 58.1 N/A			N/A N/A		N/A N/		/A N/A		N/A
Roller Total	58.1 54.1 N/A 65.5 69 N/A	N/A N/A		V/A N/A V/A N/A		N/A N/ N/A N/		/A N/A /A N/A		N/A N/A
TOLA	*Calculated Lmax is the Loud		N/A I	N/A N/A	N/A I	WA W	A N	IA INIA	IN/A	IN/A
	 Baselines (dBA)	Receptor #9								
Description Land Use	Daytime Evening Nigl	nt								
Single Family Home (S) Residential	55 55	55								
	Egu	ipment								
	Spe			Estimated						
	Impact Lma			Shielding						
Description Paver	Device Usage(%) (dB No 50	A) (dBA) 77.2		(dBA) 0						
Paver	No 50	77.2		0						
All Other Equipment > 5 HP	No 50	85	427	0						
All Other Equipment > 5 HP Roller	No 50 No 20	85	427 0 427	0 0						
Roller	No 20	80		0						
	Res Calculated (dBA)	uits Noise Limit	ts (dBA)			N	oise Limit Ex	ceedance (dBA)		
	Day		Evening	Night	I	Day		vening	Night	
Equipment	*Lmax Leq Lma			_eq Lmax		Lmax Le		max Leq	Lmax	Leq
Paver Paver	61.9 54 N/A 66.4 63.4 N/A			V/A N/A V/A N/A		N/A N/ N/A N/		/A N/A /A N/A		N/A N/A
All Other Equipment > 5 HP	66.4 63.4 N/A			V/A N/A		N/A N/		/A N/A		N/A
All Other Equipment > 5 HP	66.4 63.4 N/A		N/A M	N/A N/A		N/A N/		/A N/A	N/A	N/A
Roller	62 59 N/A			N/A N/A		N/A N/		A N/A		N/A
Roller Total	58.9 55 N/A 66.4 69.9 N/A			V/A N/A V/A N/A		N/A N/ N/A N/		/A N/A /A N/A		N/A N/A
Total	*Calculated Lmax is the Loud		1071						1077	1471
		Receptor #10								
	Baselines (dBA)	Receptor #10								
Description Land Use	Daytime Evening Nigl	nt								
Single Family Home (W) Residential	55 55	55								
	Eau	ipment								
	Spe	c Actual		Estimated						
Description	Impact Lma			Shielding						
Description Paver	Device Usage(%) (dB No 50	A) (dBA) 77.2		(dBA) 0						
Paver	No 50	77.2		0						
All Other Equipment > 5 HP	No 50	85	355	0						
All Other Equipment > 5 HP	No 50	85	355	0						
Roller Roller	No 20 No 20	80		0 0						
		00		v						

		Results											
	Calculated (dBA)		Noise Li	imits (dBA)	mits (dBA)					Noise Limit Exceedance (dBA)			
		Day	Day Evening Nigl			Night		Day		Evening		Night	
Equipment	*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	63.5	55.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	68	65 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	68	65 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	68	65 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	63.6	60.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	60.5	56.6 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	68	71.5 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	*Calculated Lmax	is the Loudest va	alue.										

Report date: Case Description:	2/3/201 Architectura	
Description Single Family Home (NE)	Land Use Residential	Receptor #1 Baselines (dBA) Daytime Evening Night 55 55 55
Description Compressor (air)		Equipment Spec Actual Receptor Estimated Impact Lmax Lmax Distance Shielding Device Usage(%) (dBA) (feet) (dBA) No 40 77.7 683 0
Equipment Compressor (air)	Total	Results Calculated (dBA) Noise Limits (dBA) Noise Limits (dBA) Noise Limit Exceedance (dBA) Day Evening Night Day Evening Night *Lmax Leq Lmax N/A
Description Storage Facility (N)	Land Use Industrial	Receptor #2 Baselines (dBA) Daytime Evening Night 65 65 65
Description Compressor (air)		Equipment Spec Actual Receptor Estimated Impact Lmax Lmax Distance Shielding Device Usage(%) (dBA) (feet) (dBA) No 40 77.7 68 0
Equipment Compressor (air)	Total	Results Calculated (dBA) Noise Limits (dBA) Noise Limits (dBA) Noise Limit Exceedance (dBA) Day Evening Night Day Evening Night *Lmax Leq Lmax N/A
Description Single Family Home (E)	Land Use Residential	Receptor #3 Baselines (dBA) Daytime Evening Night 55 55 55
Description Compressor (air)		Equipment Spec Actual Receptor Estimated Impact Lmax Lmax Distance Shielding Device Usage(%) (dBA) (feet) (dBA) No 40 77.7 465 0
Equipment Compressor (air)	Total	Results Calculated (dBA) Noise Limits (dBA) Night Day Evening Night *Lmax Leq Lmax Lq Lmax Lq <tdl< td=""></tdl<>
Description Single Family Home (E)	Land Use Residential	Receptor #4 Baselines (dBA) Daytime Evening Night 55 55 55
Description Compressor (air)		Equipment Spec Actual Receptor Estimated Impact Lmax Lmax Distance Shielding Device Usage(%) (dBA) (feet) (dBA) No 40 77.7 410 0
		Results Calculated (dBA) Noise Limits (dBA) Noise Limit Exceedance (dBA)

Equipment Compressor (air)	Total	*Lmax Leq 59.4 55. 59.4 55. *Calculated Lmax is the		Evening Lmax N/A 0	Leq N/A	Night Lmax N/A 0	Leq N/A	Day Lmax N/A 0	Leq N/A	Evening Lmax N/A 0	Leq N/A	Night Lmax N/A O	Leq N/A	0
Description Single Family Home (E)	Land Use Residential	Baselines (dBA) Daytime Evening 55 5	Receptor #5 Night 5 55											
Description Compressor (air)		Impact Device Usage(%) No 4	Equipment Spec Actual Lmax Lmax (dBA) (dBA) 0 77	Receptor Distance (feet) .7 413	Estimated Shielding (dBA)									
Equipment Compressor (air)	Total	Calculated (dBA) *Lmax Leq 59.3 55. 59.3 55. *Calculated Lmax is the		its (dBA) Evening Lmax N/A 0	Leq N/A	Night Lmax N/A O	Leq N/A	Day Lmax N/A 0	Leq N/A	it Exceedance Evening Lmax N/A 0	e (dBA) Leq N/A	Night Lmax N/A O	Leq N/A	0
Description Single Family Home (E)	Land Use Residential	Baselines (dBA) Daytime Evening 55 5	Receptor #6 Night 5 55											
Description Compressor (air)		Impact Device Usage(%) No 4	Equipment Spec Actual Lmax Lmax (dBA) (dBA) 0 77	Receptor Distance (feet) .7 470	Estimated Shielding (dBA)									
Equipment Compressor (air)	Total	Calculated (dBA) *Lmax Leq 58.2 54. 58.2 54. *Calculated Lmax is the		its (dBA) Evening Lmax N/A 0	Leq N/A	Night Lmax N/A O	Leq N/A	Day Lmax N/A O	Leq N/A	it Exceedance Evening Lmax N/A 0	e (dBA) Leq N/A	Night Lmax N/A O	Leq N/A	0
Description Retail Commercial (SE)	Land Use Commercial	Baselines (dBA) Daytime Evening 60 6	Receptor #7 Night 0 60											
Description Compressor (air)		Impact Device Usage(%) No 4	Equipment Spec Actual Lmax Lmax (dBA) (dBA) 0 77	Receptor Distance (feet) .7 753	Estimated Shielding (dBA)									
Equipment Compressor (air)	Total	Calculated (dBA) *Lmax Leq 54.1 50. 54.1 50. *Calculated Lmax is the		its (dBA) Evening Lmax N/A 0	Leq N/A	Night Lmax N/A 0	Leq N/A	Day Lmax N/A O	Leq N/A	it Exceedance Evening Lmax N/A 0	e (dBA) Leq N/A	Night Lmax N/A 0	Leq N/A	0
Description Single Family Home (S)	Land Use Residential	Baselines (dBA) Daytime Evening 55 5	Receptor #8 Night /5 55											
Description Compressor (air)		Impact Device Usage(%) No 4	Equipment Spec Actual Lmax Lmax (dBA) (dBA) 0 77 Results	Receptor Distance (feet) .7 472	Estimated Shielding (dBA)									

Equipment Compressor (air)	Total	Calculated (dBA) *Lmax Leq 58.2 58.2 *Calculated Lmax is	Day Lmax 54.2 N/A 54.2 s the Loudest val Recep	lue.	nits (dBA) Evening Lmax N/A 0	Leq N/A	Night Lmax N/A O	Leq N/A	Day Lmax N/A 0	Noise L Leq N/A	imit Exceedanc Evening Lmax N/A 0	ce (dBA) Leq N/A	Night Lmax N/A O	Leq N/A	0
Description Single Family Home (S)	Land Use Residential	Baselines (dBA) Daytime Evenin 55	ng Night	55											
Description Compressor (air)		Impact Device Usage No	Equipmen Spec Lmax (%) (dBA) 40	t Actual Lmax (dBA) 77	Receptor Distance (feet)	Estimate Shieldinç (dBA) 7									
Equipment		Calculated (dBA) *Lmax Leq	Results Day Lmax	Noise Lim Leg	iits (dBA) Evening Lmax	Leq	Night Lmax	Leq	Day Lmax	Noise L Leq	imit Exceedand Evening Lmax	ce (dBA) Leq	Night Lmax	Leq	
Compressor (air)	Total	59 59 *Calculated Lmax is	55.1 N/A 55.1 s the Loudest va		N/A 0	N/A	N/A 0	N/A	N/A 0	N/A	N/A 0	N/A	N/A 0	N/A	0
		Baselines (dBA)	Recep	tor #10											
Description Single Family Home (W)	Land Use Residential	Daytime Evenin 55		55											
		Impact	Equipmen Spec Lmax	t Actual Lmax	Receptor Distance	Estimate Shielding									
Description Compressor (air)		Device Usage No	40	(dBA) 77	(feet) 7.7 35	(dBA) 5	0								
		Calculated (dBA)	Results Day	Noise Lim	Evening		Night		Day		imit Exceedand Evening		Night		
Equipment Compressor (air)	Total	*Lmax Leq 60.6 60.6 *Calculated Lmax is	Lmax 56.7 N/A 56.7 s the Loudest val		Lmax N/A O	Leq N/A	Lmax N/A 0	Leq N/A	Lmax N/A 0	Leq N/A	Lmax N/A 0	Leq N/A	Lmax N/A 0	Leq N/A	0

San Sevaine & Bain Vibration Screening						
Receptors	Distance (ft)					
1 – Single Family Home (NE)	683					
2 – Storage Facility (N)	680					
3 – Single Family Home (E)	465					
4 – Single Family Home (E)	410					
5 – Single Family Home (E)	413					
6 – Single Family Home (E)	470					
7 – Retail Commercial (SE)	753					
8 – Single Family Home (S)	472					
9 – Single Family Home (S)	427					
10 – Single Family Home (W)	355					

Equipment	PPVref	D	n	Eref	Eequip	PPV
Vibratory Roller	0.21	683	1.3			0.0028
Vibratory Roller	0.21	680	1.3			0.0029
Vibratory Roller	0.21	465	1.3			0.0047
Vibratory Roller	0.21	410	1.3			0.0055
Vibratory Roller	0.21	413	1.3			0.0055
Vibratory Roller	0.21	470	1.3			0.0046
Vibratory Roller	0.21	753	1.3			0.0025
Vibratory Roller	0.21	472	1.3			0.0046
Vibratory Roller	0.21	427	1.3			0.0052
Vibratory Roller	0.21	355	1.3			0.0067
Large Bulldozer	0.089	683	1.3			0.001208
Large Bulldozer	0.089	680	1.3			0.001215
Large Bulldozer	0.089	465	1.3			0.001991
Large Bulldozer	0.089	410	1.3			0.002345
Large Bulldozer	0.089	413	1.3			0.002323
Large Bulldozer	0.089	470	1.3			0.001963
Large Bulldozer	0.089	753	1.3			0.001064
Large Bulldozer	0.089	472	1.3			0.001952
Large Bulldozer	0.089	427	1.3			0.002224
Large Bulldozer	0.089	355	1.3			0.002828
	0.007	000	1.0			0.002020
Small Bulldozer	0.003	683	1.3			0.000041
Small Bulldozer	0.003	680	1.3			0.000041
Small Bulldozer	0.003	465	1.3			0.000067
Small Bulldozer	0.003	410	1.3			0.000079
Small Bulldozer	0.003	413	1.3			0.000078
Small Bulldozer	0.003	470	1.3			0.000066
Small Bulldozer	0.003	753	1.3			0.000036
Small Bulldozer	0.003	472	1.3			0.000066
Small Bulldozer	0.003	427	1.3			0.000075
Small Bulldozer	0.003	355	1.3			0.000095
Loaded Truck	0.076	683	1.3			0.001031
Loaded Truck	0.076	680	1.3			0.001037
Loaded Truck	0.076	465	1.3			0.001700
Loaded Truck	0.076	410	1.3			0.002002
Loaded Truck	0.076	413	1.3			0.001983
Loaded Truck	0.076	470	1.3			0.001677
Loaded Truck	0.076	753	1.3			0.000908
Loaded Truck	0.076	472	1.3			0.001667
Loaded Truck	0.076	427	1.3			0.001899
Loaded Truck	0.076	355	1.3			0.002415

Гa	h	P

Equipment	PPVref	Distance	PPV
Vibratory Roller	0.21	683	0.0028
Vibratory Roller	0.21	680	0.0029
Vibratory Roller	0.21	465	0.0047
Vibratory Roller	0.21	410	0.0055
Vibratory Roller	0.21	413	0.0055
Vibratory Roller	0.21	470	0.0046
Vibratory Roller	0.21	753	0.0025
Vibratory Roller	0.21	472	0.0046
Vibratory Roller	0.21	427	0.0052
Vibratory Roller	0.21	355	0.0067
Large Bulldozer	0.089	683	0.0012
Large Bulldozer	0.089	680	0.0012
Large Bulldozer	0.089	465	0.0020
Large Bulldozer	0.089	410	0.0023
Large Bulldozer	0.089	413	0.0023
Large Bulldozer	0.089	470	0.0020
Large Bulldozer	0.089	753	0.0011
Large Bulldozer	0.089	472	0.0020
Large Bulldozer	0.089	427	0.0022
Large Bulldozer	0.089	355	0.0028
Small Bulldozer	0.003	683	0.0000
Small Bulldozer	0.003	680	0.0000
Small Bulldozer	0.003	465	0.0001
Small Bulldozer	0.003	410	0.0001
Small Bulldozer	0.003	413	0.0001
Small Bulldozer	0.003	470	0.0001
Small Bulldozer	0.003	753	0.0000
Small Bulldozer	0.003	472	0.0001
Small Bulldozer	0.003	427	0.0001
Small Bulldozer	0.003	355	0.0001
Loaded Truck	0.076	683	0.0010
Loaded Truck	0.076	680	0.0010
Loaded Truck	0.076	465	0.0010
Loaded Truck	0.076	405	0.0017
Loaded Truck	0.076	410	0.0020
Loaded Truck	0.076	470	0.0020
Loaded Truck	0.076	753	0.0009
Loaded Truck	0.076	472	0.0009
Loaded Truck	0.076	472	0.0017
Loaded Truck	0.076	355	0.0019
LUDUEU TTUCK	0.076	300	0.0024

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Redwood Avenue Warehouse 13419 Opening Year 2017 Without Project Road

Stationing	Traffic values ADT Vehicles type	Vehicle name	day	night	Control Speed device	Con Spe	str. Affec		Gradient Min / Max
-	Veh/24h		Veh/h	Veh/h	km/h	km		Noau Sullace	%
Valley Blv		In entry direct		VCH/H	KIII/II	KIII	/11 /0		70
0+000	18528 Total	-	558	1200	- none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Automobiles	-	443	954	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Medium trucks	-	46	98	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Heavy trucks	-	69	148	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Buses	-	-	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Motorcycles	-	-	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Auxiliary Vehicle	-	-	-	- none	-	-	Average (of DGAC and PCC)	0
0+368	18528 Total	-	558	1200			0 -	Average (of DGAC and PCC)	0
0+368	18528 Automobiles	-	443	954	64 Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+368	18528 Medium trucks	-	46	98	64 Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+368	18528 Heavy trucks	-	69	148	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+368	18528 Buses	-	-	-	64 Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+368	18528 Motorcycles	-	-	-	64 Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+368	18528 Auxiliary Vehicle	-	-	-	- Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+572 -					-	-	_	-	-
0+000	18528 Total	-	558	1200	- none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Automobiles	-	443	954	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Medium trucks	-	46	98	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Heavy trucks	-	69	148	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Buses	-	-	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Motorcycles	-	_	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	18528 Auxiliary Vehicle	-	_	-	- none	-	-	Average (of DGAC and PCC)	0
Valley Blv	•	In entry direct	tion					······································	
0+000	14168 Total	-	628	515	- none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Automobiles	-	499	409	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Medium trucks	-	51	42	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Heavy trucks	-	78	64	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Buses	-	-	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Motorcycles	-	-	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Auxiliary Vehicle	-	-	-	- none	-	-	Average (of DGAC and PCC)	0
0+208	14168 Total	-	628	515	- Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+208	14168 Automobiles	-	499	409	64 Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+208	14168 Medium trucks	-	51	42	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+208	14168 Heavy trucks	-	78	64	64 Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+208	14168 Buses	-	-	-	64 Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+208	14168 Motorcycles	-	-	-	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+208	14168 Auxiliary Vehicle	-	-	-	- Traffic ligh		0 -	Average (of DGAC and PCC)	0
0+570 -					-	-	-	-	-
0+000	14168 Total	-	628	515	- none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Automobiles	-	499	409	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Medium trucks	-	51	42	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Heavy trucks	-	78	64	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Buses	-	-	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Motorcycles	-	-	-	64 none	-	-	Average (of DGAC and PCC)	0
0+000	14168 Auxiliary Vehicle	-	-	-	- none	-	-	Average (of DGAC and PCC)	0
Hunter St.	•	In entry direction	n						
0+000	544 Total	-	22	24	- none	-	-	Average (of DGAC and PCC)	0

0+000	544 Automobiles	- 17	19	64 none	-	-	Average (of DGAC and PCC)	0
0+000	544 Medium trucks	- 2	2	64 none	-	-	Average (of DGAC and PCC)	0
0+000	544 Heavy trucks	- 3	3	64 none	-	-	Average (of DGAC and PCC)	0
0+000	544 Buses			64 none	-	-	Average (of DGAC and PCC)	0
0+000	544 Motorcycles			64 none	-	-	Average (of DGAC and PCC)	0
0+000	544 Auxiliary Vehicle		-	none	-	-	Average (of DGAC and PCC)	0
0+362 -				-	-	-		
Iris Dr. EB	Traffic direction: In er	try direction						
0+000	312 Total	- 7	25 -	none	-	-	Average (of DGAC and PCC)	0
0+000	312 Automobiles	- 5	20	64 none	-	-	Average (of DGAC and PCC)	0
0+000	312 Medium trucks	- 1	2	64 none	-	-	Average (of DGAC and PCC)	0
0+000	312 Heavy trucks	- 1	3	64 none	-	-	Average (of DGAC and PCC)	0
0+000	312 Buses			64 none	-	-	Average (of DGAC and PCC)	0
0+000	312 Motorcycles			64 none	-	-	Average (of DGAC and PCC)	0
0+000	312 Auxiliary Vehicle		-	none	-	-	Average (of DGAC and PCC)	0
0+211 -	5			-	-	-		
Rosemary	Dr EB Traffic direction:	In entry direction						
0+000	600 Total	- 21	33 -	none	-	-	Average (of DGAC and PCC)	0
0+000	600 Automobiles	- 16	26	64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Medium trucks	- 2	3	64 none	-	_	Average (of DGAC and PCC)	0
0+000	600 Heavy trucks	- 3	4	64 none	-	_	Average (of DGAC and PCC)	0
0+000	600 Buses			64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Motorcycles			64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Auxiliary Vehicle		-	none	-	-	Average (of DGAC and PCC)	0
0+210 -	·····			-	-	-		-
Redwood /	Ave SB Traffic direction	In entry direction						
0+000	2448 Total	- 101	104 -	none	-	-	Average (of DGAC and PCC)	0
0+000	2448 Automobiles	- 79	82	64 none	-	-	Average (of DGAC and PCC)	0
0+000	2448 Medium trucks	- 9	9	64 none	-	-	Average (of DGAC and PCC)	0
0+000	2448 Heavy trucks	- 13	13	64 none	-	-	Average (of DGAC and PCC)	0
0+000	2448 Buses		10	64 none	-	-	Average (of DGAC and PCC)	0
0+000	2448 Motorcycles			64 none	_	_	Average (of DGAC and PCC)	0
0+000	2448 Auxiliary Vehicle		-	none	_	_	Average (of DGAC and PCC)	0
0+154	2448 Total	- 101	104 -	none	_	_	Average (of DGAC and PCC)	0
0+154	2448 Automobiles	- 79	82	64 none	_	_	Average (of DGAC and PCC)	0
0+151	2448 Medium trucks	- 9	9	64 none	_		Average (of DGAC and PCC)	0
0+154	2448 Heavy trucks	- 13	13	64 none	_	_	Average (of DGAC and PCC)	0
0+154	2448 Buses	- 15	15	64 none	-		Average (of DGAC and PCC)	0
0+154	2448 Motorcycles			64 none	-	-	Average (of DGAC and PCC)	0
0+154	2448 Auxiliary Vehicle			none	-	-	Average (of DGAC and PCC)	0
0+134 0+189	2704 Total	- 111	- 116 -	none	-	-	Average (of DGAC and PCC)	0
0+189	2704 Automobiles	- 88	91	64 none	-		Average (of DGAC and PCC)	0
0+189	2704 Medium trucks	- 9	10	64 none	-	-	Average (of DGAC and PCC)	0
0+189	2704 Heavy trucks	- 14	15	64 none	-	-	Average (of DGAC and PCC)	0
0+189	2704 Heavy flucks	- 14	15	64 none	-	-	Average (of DGAC and PCC)	0
					-	-		0
0+189 0+189	2704 Motorcycles			64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	
	2704 Auxiliary Vehicle		-	none	-	-	0	0
0+290	2928 Total	- 126	114 -	none	-	-	Average (of DGAC and PCC)	0
0+290	2928 Automobiles	- 99	90 10	64 none	-	-	Average (of DGAC and PCC)	0
0+290	2928 Medium trucks	- 11	10	64 none	-	-	Average (of DGAC and PCC)	0
0+290	2928 Heavy trucks	- 16	14	64 none	-	-	Average (of DGAC and PCC)	0
0+290	2928 Buses			64 none	-	-	Average (of DGAC and PCC)	0
0+290	2928 Motorcycles			64 none	-	-	Average (of DGAC and PCC)	0
0+290	2928 Auxiliary Vehicle		-	none	-	-	Average (of DGAC and PCC)	0
0+328	2928 Total	- 126	114 -	none	-	-	Average (of DGAC and PCC)	0

0+328	2928 Automobiles -		99	90	64 none	-	-	Average (of DGAC and PCC)	0
0+328	2928 Medium trucks -		11	10	64 none	-	-	Average (of DGAC and PCC)	0
0+328	2928 Heavy trucks -		16	14	64 none	-	-	Average (of DGAC and PCC)	0
0+328	2928 Buses -	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+328	2928 Motorcycles -	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+328	2928 Auxiliary Vehicle -	-	-	-	none	-	-	Average (of DGAC and PCC)	0
0+384	3504 Total -		130	178 -	none	-	-	Average (of DGAC and PCC)	0
0+384	3504 Automobiles -		103	141	64 none	-	-	Average (of DGAC and PCC)	0
0+384	3504 Medium trucks -		11	15	64 none	-	-	Average (of DGAC and PCC)	0
0+384	3504 Heavy trucks -		16	22	64 none	-	-	Average (of DGAC and PCC)	0
0+384	3504 Buses -	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+384	3504 Motorcycles -	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+384	3504 Auxiliary Vehicle -	-	-	-	none	-	-	Average (of DGAC and PCC)	0
0+543	992 Total -		47	30 -	Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	- 992 Automobiles		37	23	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Medium trucks		4	3	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Heavy trucks -		6	4	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Buses -	-			64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Motorcycles -	-	-		64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Auxiliary Vehicle	-	-	-	Traffic light		0 -	Average (of DGAC and PCC)	0
0+623	-				-	-	-		Ū
0+000	992 Total -		47	30 -	none	-	-	Average (of DGAC and PCC)	0
0+000	992 Automobiles -		37	23	64 none	-	-	Average (of DGAC and PCC)	0
0+000	992 Medium trucks		4	3	64 none	-	-	Average (of DGAC and PCC)	0
0+000	992 Heavy trucks -		6	4	64 none	-	-	Average (of DGAC and PCC)	0
0+000	992 Buses -	-	- -		64 none	_	_	Average (of DGAC and PCC)	0
0+000	992 Motorcycles -	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+000	992 Auxiliary Vehicle								
				-	none				0
	•	In entry directi	- ion	-	none	-	-	Average (of DGAC and PCC)	0
Redwood	d Ave NB Traffic direction:	In entry directi		- 105 -		-	-	-	
Redwood 0+622	d Ave NB Traffic direction: 1992 Total	In entry directi	72	- 105 - 83	none	-	-	Average (of DGAC and PCC)	0
Redwood 0+622 0+622	Ave NB Traffic direction: 1992 Total - 1992 Automobiles -	In entry directi	72 57	83	none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0
Redwood 0+622 0+622 0+622	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Medium trucks -	In entry directi	72 57 6	83 9	none 64 none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0
Redwood 0+622 0+622 0+622 0+622	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks -	In entry directi	72 57	83	none 64 none 64 none 64 none	-		Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses -	In entry directi	72 57 6	83 9	none 64 none 64 none 64 none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles -	In entry directi	72 57 6	83 9	none 64 none 64 none 64 none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle -	In entry directi	72 57 6 9 - -	83 9 13	none 64 none 64 none 64 none 64 none none	-		Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622	Ave NBTraffic direction:1992Total-1992Automobiles-1992Medium trucks-1992Heavy trucks-1992Buses-1992Motorcycles-1992Auxiliary Vehicle-1992Total-	In entry directi	72 57 6 9 - - - 72	83 9 13 - 105 -	none 64 none 64 none 64 none 64 none 64 none none Traffic light	-	- - - - - - - - - - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Medium trucks - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Total - 1992 Auxiliary Vehicle - 1992 Automobiles -	In entry directi	72 57 6 9 - - 72 57	83 9 13 - 105 - 83	none 64 none 64 none 64 none 64 none 64 none none Traffic light 64 Traffic light	-	0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701	Ave NBTraffic direction:1992Total-1992Automobiles-1992Medium trucks-1992Heavy trucks-1992Buses-1992Motorcycles-1992Auxiliary Vehicle-1992Total-1992Automobiles-1992Motorcycles-1992Auxiliary Vehicle-1992Automobiles-1992Automobiles-1992Medium trucks-	In entry directi	72 57 6 9 - - 72 57 6	83 9 13 - 105 - 83 9	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light	-	0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701	Ave NBTraffic direction:1992Total-1992Automobiles-1992Medium trucks-1992Heavy trucks-1992Buses-1992Motorcycles-1992Auxiliary Vehicle-1992Total-1992Automobiles-1992Automobiles-1992Medium trucks-1992Heavy trucks-1992Heavy trucks-	In entry directi	72 57 6 9 - - 72 57	83 9 13 - 105 - 83	none 64 none 64 none 64 none 64 none none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light	-	0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Total - 1992 Automobiles - 1992 Medium trucks -	In entry directi	72 57 6 9 - - 72 57 6	83 9 13 - 105 - 83 9	none 64 none 64 none 64 none 64 none none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light		0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Autorocycles - 1992 Autorocycles - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks -	In entry directi	72 57 6 9 - - 72 57 6	83 9 13 - 105 - 83 9	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Medium trucks - 1992 Medium trucks - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle -	In entry directi	72 57 6 9 - - 72 57 6 9 - - -	83 9 13 - 105 - 83 9 13	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light		0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Medium trucks - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Motorcycles -	In entry directi	72 57 6 9 - - 72 57 6 9 - - - 9	83 9 13 - 105 - 83 9 13 - 173 -	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - </td <td>In entry directi</td> <td>72 57 6 9 - - 72 57 6 9 - - - 9 4 74</td> <td>83 9 13 - 105 - 83 9 13 - 13 - 173 - 137</td> <td>none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 A Traffic light 64 A Traffic light 64 A Traffic light 64 A Traffic light 7 A A A A A A A A A A A A A A A A A A A</td> <td></td> <td>0 - 0 - 0 - 0 - 0 -</td> <td>Average (of DGAC and PCC) Average (of DGAC and PCC)</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	In entry directi	72 57 6 9 - - 72 57 6 9 - - - 9 4 74	83 9 13 - 105 - 83 9 13 - 13 - 173 - 137	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 A Traffic light 64 A Traffic light 64 A Traffic light 64 A Traffic light 7 A A A A A A A A A A A A A A A A A A A		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Motorcycles - 1992 Auxiliary Vehicle - 2888 Total - 2888 Automobiles - 2888 Medium truckss -	In entry directi	72 57 6 9 - - 72 57 6 9 - - - 9 4 74 8	83 9 13 	none 64 none 64 none 64 none 64 none none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Automobiles - 1992 Motorcycles - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Medium trucks - 1992 Medium trucks - 1992 Motorcycles - 1992 Motorcycles - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Auxiliary Vehicles - 2888 Total - 2888 Automobiles - 2888 Medium trucks - 2888 Medium trucks -	In entry directi	72 57 6 9 - - 72 57 6 9 - - - 9 4 74	83 9 13 - 105 - 83 9 13 - 13 - 173 - 137	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Auxiliary Vehicle - 1992 Auxomobiles - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Medium trucks - 1992 Medium trucks - 1992 Buses - 1992 Motorcycles - 1992 Motorcycles - 1992 Auxiliary Vehicle - 2888 Total - 2888 Motorcycles - 2888 Medium trucks - 2888 Medium trucks - 2888 Meavy trucks - <	In entry directi	72 57 6 9 - - 72 57 6 9 - - - 9 4 74 8	83 9 13 	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Medium trucks - 1992 Motorcycles - 2888 Medium trucks - 2888 Medium trucks - 2888 Meavy trucks -	In entry directi	72 57 6 9 - - 72 57 6 9 - - - 9 4 74 8	83 9 13 	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 - 0 - - - - - -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860	Ave NB Traffic direction: 1992 Total - 1992 Total - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Motorcycles - 1992 Heavy trucks - 1992 Motorcycles - 2888 Motorcycles - 2888 Heavy trucks - 2888 Motorcycles -	In entry directi	72 57 6 9 - - 72 57 6 9 - - - 94 74 8 12 - -	83 9 13 - 105 - 83 9 13 - 173 - 137 14 22	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+917	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Motorcycles - 1992 Motorcycles - 1992 Medium trucks - 1992 Medium trucks - 1992 Medium trucks - 1992 Motorcycles - 1992 Motorcycles - 1992 Motorcycles - 1992 Mutomobiles - 1992 Motorcycles - 1992 Mutomobiles - 2888 Medium trucks - 2888 Medium trucks - 2888 Medium trucks - <td>In entry directi</td> <td>72 57 6 9 - - 72 57 6 9 - - 94 74 8 12 - - 93</td> <td>83 9 13 - 105 - 83 9 13 - 137 - 137 - 14 22 - 173 -</td> <td>none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none 64 none</td> <td></td> <td>0 - 0 - 0 - 0 - 0 - 0 - - - - - -</td> <td>Average (of DGAC and PCC) Average (of DGAC and PCC)</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	In entry directi	72 57 6 9 - - 72 57 6 9 - - 94 74 8 12 - - 93	83 9 13 - 105 - 83 9 13 - 137 - 137 - 14 22 - 173 -	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 - 0 - - - - - -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+817 0+917	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Medium trucks - 1992 Motorcycles - 1992 Medium trucks - 1992 Medium trucks - 1992 Motorcycles - 1992 Motorcycles - 1992 Motorcycles - 1992 Mutomobiles - 1992 Mutomobiles - 1992 Mutorcycles - 1992 Mutorobiles - 1992 Mutomobiles - 2888 Medium trucks - 2888 Measy trucks -	In entry directi	72 57 6 9 - 72 57 6 9 - 94 74 8 12 - 94 74 8 12 - 93 73	83 9 13 - 105 - 83 9 13 - 137 - 14 22 - 173 - 137 - 137	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 - 0 - - - - - -	Average (of DGAC and PCC) Average (of DGAC and PCC)	
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+817 0+917	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Auxiliary Vehicles - 1992 Motorcycles - 1992 Mutomobiles - 1992 Motorcycles - 2888 Medium trucks - 2888 Medium trucks - 2888 Motorcycles - 2888 Motorcycles -	In entry directi	72 57 6 9 - 72 57 6 9 - - 94 74 8 12 - - 93 73 8	83 9 13 - 105 - 83 9 13 - 137 14 22 - 173 - 137 14 - 173 - 137 14	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 - 0 - - - - - -	Average (of DGAC and PCC) Average (of DGAC and PCC)	
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+817 0+917 0+917	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Buses - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Auxiliary Vehicles - 1992 Medium trucks - 1992 Medium trucks - 1992 Medium trucks - 1992 Motorcycles - 1992 Motorcycles - 1992 Motorcycles - 1992 Motorcycles - 1992 Auxiliary Vehicle - 2888 Medium trucks - 2888 Meases - 2888 Motorcycles - 2888 Motorcycles - 2888 Motorcycles -	In entry directi	72 57 6 9 - 72 57 6 9 - 94 74 8 12 - 94 74 8 12 - 93 73	83 9 13 - 105 - 83 9 13 - 137 - 14 22 - 173 - 137 - 137	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 - 0 - - - - - -	Average (of DGAC and PCC) Average (of DGAC and PCC)	
Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+817 0+917	Ave NB Traffic direction: 1992 Total - 1992 Automobiles - 1992 Automobiles - 1992 Medium trucks - 1992 Heavy trucks - 1992 Motorcycles - 1992 Auxiliary Vehicle - 1992 Automobiles - 1992 Auxiliary Vehicles - 1992 Motorcycles - 1992 Mutomobiles - 1992 Motorcycles - 2888 Medium trucks - 2888 Medium trucks - 2888 Motorcycles - 2888 Motorcycles -	In entry directi	72 57 6 9 - 72 57 6 9 - - 94 74 8 12 - - 93 73 8	83 9 13 - 105 - 83 9 13 - 137 14 22 - 173 - 137 14 - 173 - 137 14	none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none 64 none 64 none 64 none 64 none 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 - 0 - - - - - -	Average (of DGAC and PCC) Average (of DGAC and PCC)	

0+917	2872 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+917	2872 Auxiliary Vehicle	-	-	-	-	none	-	-	Average (of DGAC and PCC)	0
0+958	2688 Total	-		89	158 -	none	-	-	Average (of DGAC and PCC)	0
0+958	2688 Automobiles	-		70	125	64 none	-	-	Average (of DGAC and PCC)	0
0+958	2688 Medium trucks	-		8	13	64 none	-	-	Average (of DGAC and PCC)	0
0+958	2688 Heavy trucks	-		11	20	64 none	-	-	Average (of DGAC and PCC)	0
0+958	2688 Buses	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+958	2688 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+958	2688 Auxiliary Vehicle	-	-	-	-	none	-	-	Average (of DGAC and PCC)	0
1+057	2272 Total	-		70	144 -	none	-	-	Average (of DGAC and PCC)	0
1+057	2272 Automobiles	-		55	114	64 none	-	-	Average (of DGAC and PCC)	0
1+057	2272 Medium trucks	-		6	12	64 none	-	-	Average (of DGAC and PCC)	0
1+057	2272 Heavy trucks	-		9	18	64 none	-	-	Average (of DGAC and PCC)	0
1+057	2272 Buses	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+057	2272 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+057	2272 Auxiliary Vehicle	-	-	-	-	none	-	-	Average (of DGAC and PCC)	0
1+091	2200 Total	-		70	135 -	none	-	-	Average (of DGAC and PCC)	0
1+091	2200 Automobiles	-		55	107	64 none	-	-	Average (of DGAC and PCC)	0
1+091	2200 Medium trucks	-		6	11	64 none	-	-	Average (of DGAC and PCC)	0
1+091	2200 Heavy trucks	-		9	17	64 none	-	-	Average (of DGAC and PCC)	0
1+091	2200 Buses	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+091	2200 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+091	2200 Auxiliary Vehicle	-	-	-	-	none	-	-	Average (of DGAC and PCC)	0
1+242 -						-	-	-		

Redwood Avenue Warehouse 13419 Opening Year 2017 Without Project Receivers

No.	Receiver name	Building side	Floor	Level Day dB(A)	Night
1	1 Single Family Home NE	(GF	60	61.4
2	2 Storage Facility N	(GF	63.7	64.9
3	3 Single Family Home E1	(GF	61	62.5
4	4 Single Family Home E2	(GF	61	62.5
5	5 Single Family Home E3	(GF	61	62.5
6	6 Single Family Home E4	(GF	62.1	63.5
7	7 Commercial SE	(GF	62.3	63.7
8	8 Single Family Home S	(GF	62	63
9	9 Single Family Home S2	(GF	53.9	55.2
10	10 Single Family Home W	(GF	48.8	50.2

Redwood Avenue Warehouse 13419 Opening Year 2017 Without Project Contributions

Contributions			
		Level	
Source name		Day	Night
		dB(A)	
1 Single Family Home NE	GF	60.0	61.4
Hunter St. EB		28.4	28.4
Iris Dr. EB		25.1	29.8
Redwood Ave NB		56.2	59.0
Redwood Ave SB		57.4	57.4
Rosemary Dr EB		34.5	35.9
Valley Blvd EB		40.5	43.8
Valley Blvd WB		41.2	40.3
2 Storage Facility N GF		63.7	64.9
Hunter St. EB		29.9	29.9
Iris Dr. EB		27.5	32.2
Redwood Ave NB		59.2	61.9
Redwood Ave SB		61.7	61.8
Rosemary Dr EB		38.0	39.5
Valley Blvd EB		41.6	44.9
Valley Blvd WB		42.2	41.4
3 Single Family Home E1	GF	61.0	62.5
Hunter St. EB		31.1	31.1
Iris Dr. EB		29.9	34.5
Redwood Ave NB		57.1	60.0
Redwood Ave SB		58.2	58.3
Rosemary Dr EB		45.8	47.3
Valley Blvd EB		42.7	46.0
Valley Blvd WB		43.4	42.5
4 Single Family Home E2	GF	61.0	62.5
Hunter St. EB		32.3	32.4
Iris Dr. EB		32.9	37.6
Redwood Ave NB		57.0	59.6
Redwood Ave SB		57.6	57.8
Rosemary Dr EB		50.7	52.2
Valley Blvd EB		43.7	47.0
Valley Blvd WB		44.4	43.5
5 Single Family Home E3	GF	61.0	62.5
Hunter St. EB		35.1	35.2
Iris Dr. EB		41.7	46.3
Redwood Ave NB		57.4	59.9
Redwood Ave SB		57.8	58.0

Rosemary Dr EB		38.4	39.8
Valley Blvd EB		45.7	49.0
Valley Blvd WB		46.4	45.5
6 Single Family Home E4	GF	62.1	63.5
Hunter St. EB	0.	38.2	38.3
Iris Dr. EB		42.2	46.9
Redwood Ave NB		58.6	61.2
Redwood Ave SB		58.8	58.5
Rosemary Dr EB		34.6	36.0
Valley Blvd EB		47.0	50.3
Valley Blvd WB		47.7	46.9
7 Commercial SE GF		62.3	63.7
Hunter St. EB		39.9	40.0
Iris Dr. EB		28.9	33.6
Redwood Ave NB		57.7	59.4
Redwood Ave SB		58.5	59.7
Rosemary Dr EB		29.2	30.6
Valley Blvd EB		52.4	55.7
Valley Blvd WB		53.1	52.3
8 Single Family Home S	GF	62.0	63.0
Hunter St. EB	01	45.0	45.1
Iris Dr. EB		34.0	38.7
Redwood Ave NB		57.0	59.5
Redwood Ave SB		59.5	59.2
Rosemary Dr EB		32.1	33.6
Valley Blvd EB		48.5	51.8
Valley Blvd WB		49.2	48.3
9 Single Family Home S2	GF	53.9	55.2
Hunter St. EB		47.2	47.3
Iris Dr. EB		25.9	30.7
Redwood Ave NB		42.3	44.6
Redwood Ave SB		44.0	44.4
Rosemary Dr EB		28.5	29.8
Valley Blvd EB		48.4	51.7
Valley Blvd WB		49.1	48.3
10 Single Family Home W	GF	48.8	50.2
Hunter St. EB		34.4	34.5
Iris Dr. EB		23.3	28.0
Redwood Ave NB		39.4	41.9
Redwood Ave SB		41.0	41.3
Rosemary Dr EB		28.5	29.9
Valley Blvd EB		43.7	47.0
Valley Blvd WB		44.3	43.5

Redwood Avenue Warehouse 13419 Opening Year 2017 Without Project Receiver Spectra

No.	Name	Floor	Time slice	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1 kHz	2 kHz	2 kHz	2 kHz	3 kHz	4 kHz !	5 kHz	6 kHz	8 kHz	10 kHz
1	1 Single Family Home NE	GF	Day	28.1	34.9	39	41.3	42.8	44.3	45.5	46.4	47.9	47.2	48.7	50	49.9	50	49.1	48.3	47.6	46.7	46.2	44.2	42	39.8	36.9	32.7
1	1 Single Family Home NE	GF	Night	29.6	36.5	40.6	42.8	44.3	45.8	47.1	48.1	49.6	48.6	50.2	51.8	51.2	51.4	50.5	49.5	48.8	48	47.5	45.6	43.4	41.2	38.3	34.1
2	2 Storage Facility N	GF	Day	30.7	37.6	41.7	44	45.6	47.2	48.9	51.3	51	51	53.3	54.2	53.7	54.2	53.3	52.1	51.2	49.5	48.5	46.3	44.7	42.5	39.6	35.4
2	2 Storage Facility N	GF	Night	31.9	38.8	42.9	45.2	46.7	48.4	50	52.3	52.3	52.1	54.3	55.4	55	55.5	54.6	53.4	52.5	50.9	49.8	47.5	45.8	43.6	40.7	36.6
3	3 Single Family Home E1	GF	Day	29.3	36.2	40.3	42.6	44	45.5	46.7	47.3	48.7	48.3	49.8	50.7	50.8	51.1	50.1	49.2	48.6	47.8	47.3	45.5	43.1	41	38.1	33.9
3	3 Single Family Home E1	GF	Night	30.9	37.8	41.9	44.2	45.6	47.1	48.3	49.1	50.5	49.9	51.3	52.6	52.3	52.6	51.5	50.6	49.9	49.1	48.7	46.8	44.6	42.4	39.5	35.3
4	4 Single Family Home E2	GF	Day	29.6	36.4	40.5	42.8	44.2	45.7	46.8	47.1	48.6	48.5	49.9	50.6	50.9	51.1	49.8	48.9	48.3	47.8	47.6	45.7	43.6	41.3	38.4	34.2
4	4 Single Family Home E2	GF	Night	31.1	38	42.1	44.3	45.8	47.2	48.4	48.7	50.3	50	51.4	52.2	52.5	52.6	51.2	50.3	49.6	49.1	49	47.2	45	42.8	39.9	35.6
5	5 Single Family Home E3	GF	Day	29.7	36.6	40.6	42.9	44.4	45.8	46.9	47.2	48.4	48.3	49.9	50.5	50.7	51.2	49.9	49	48.5	48	48	45.9	43.5	41.2	38.3	34.1
5	5 Single Family Home E3	GF	Night	31.2	38.1	42.2	44.5	45.9	47.4	48.5	48.8	50.1	49.9	51.3	52.2	52.2	52.6	51.3	50.3	49.8	49.3	49.4	47.3	45	42.7	39.8	35.5
6	6 Single Family Home E4	GF	Day	30.5	37.3	41.4	43.7	45.2	46.7	47.9	48.7	49.7	49.2	51	51.9	51.8	52.2	51.5	50.4	49.7	49.1	48.6	46.5	43.6	41.8	38.9	34.7
6	6 Single Family Home E4	GF	Night	31.9	38.9	43	45.2	46.7	48.2	49.4	50.4	51.4	50.6	52.3	53.7	53.1	53.5	52.7	51.6	50.9	50.4	50	47.9	45	43.2	40.3	36.1
7	7 Commercial SE	GF	Day	31.3	38.2	42.3	44.6	46	47.5	48.7	49.3	49.6	48.9	50.8	51.6	51.7	52.3	51.7	50.7	50.1	49	48.4	46.8	44.4	41.9	39	34.7
7	7 Commercial SE	GF	Night	32.8	39.7	43.8	46	47.5	48.9	50.1	50.8	51	50.3	52.2	53.2	53.2	53.8	53.2	52.2	51.5	50.5	49.8	48.2	45.9	43.4	40.5	36.2
8	8 Single Family Home S	GF	Day	30.8	37.7	41.7	44	45.5	46.9	48.1	48.8	49.8	49.1	50.7	52	51.6	52	51	50.1	49.5	49	48.8	46.2	43.4	41.8	38.9	34.6
8	8 Single Family Home S	GF	Night	31.8	38.7	42.8	45.1	46.5	47.9	49.1	49.5	50.3	50	51.7	52.6	52.5	53.1	52.2	51.3	50.8	50.2	50	47.4	44.6	42.9	40	35.8
9	9 Single Family Home S2	GF	Day	25.9	32.8	36.8	39	40.4	41.6	42.3	40.6	37.5	35.7	38.4	39.5	40.4	41.6	42.1	42.5	42.9	44	44.2	40.5	37.7	35.5	32.4	27.9
9	9 Single Family Home S2	GF	Night	27.2	34.1	38.1	40.3	41.7	42.9	43.6	41.8	38.4	36.4	39	40.3	41.3	42.7	43.2	43.8	44.2	45.4	45.6	41.9	38.8	36.8	33.7	29.2
10	10 Single Family Home W	GF	Day	21.6	28.4	32.4	34.6	35.9	37.1	37.5	32.7	27.1	23	26.3	28.5	31.2	33.1	34.4	35.6	36.9	39	40.6	39.1	36.7	34.7	31.5	26.8
10	10 Single Family Home W	GF	Night	23	29.9	33.9	36.1	37.4	38.5	38.9	34	28.4	24.6	27.8	30	32.6	34.5	35.8	37	38.3	40.4	42.1	40.6	38.3	36.2	33.1	28.4

Redwood Avenue Warehouse 13419 Opening Year 2017 With Project Road

Stationing	Traffic valu ADT Vehicles ty		5	night	Speed	Control device	Constr. Speed	veh.	Road surface	Gradient Min / Max
km	Veh/24h	ione in ontare	Veh/h	Veh/h	km/h		km/h	%		%
Valley Bl		ion: In entry		1000		an a			Average (of DCAC and DCC)	0
0+000	18568 Total 18568 Automobiles	-	559	1203 956		one	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0
0+000 0+000	18568 Medium truck	- ko	444	950 98	64 n		-	-	e .	0
0+000			46 69	98 149	64 n 64 n		-	-	Average (of DGAC and PCC)	0 0
0+000	18568 Heavy trucks 18568 Buses	, -	09	149	64 m		-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0
		-	-	-			-	-	•	
0+000	18568 Motorcycles	-	-	-	64 n		-	-	Average (of DGAC and PCC)	0
0+000	18568 Auxiliary Veh	nicle -	-	- 1000		one	-	-	Average (of DGAC and PCC)	0
0+368	18568 Total	-	559	1203		raffic light	0		Average (of DGAC and PCC)	0
0+368	18568 Automobiles	-	444	956		raffic light	0		Average (of DGAC and PCC)	0
0+368	18568 Medium truck		46	98		raffic light	0		Average (of DGAC and PCC)	0
0+368	18568 Heavy trucks	<u>-</u>	69	149		raffic light	0		Average (of DGAC and PCC)	0
0+368	18568 Buses	-	-	-		raffic light	0		Average (of DGAC and PCC)	0
0+368	18568 Motorcycles	-	-	-		raffic light	0		Average (of DGAC and PCC)	0
0+368	18568 Auxiliary Veh	nicle -	-	-	-	raffic light	0	-	Average (of DGAC and PCC)	0
0+572	-				-		-	-	-	-
0+000	18568 Total	-	559	1203		one	-	-	Average (of DGAC and PCC)	0
0+000	18568 Automobiles	-	444	956	64 n		-	-	Average (of DGAC and PCC)	0
0+000	18568 Medium trucl		46	98	64 n		-	-	Average (of DGAC and PCC)	0
0+000	18568 Heavy trucks	5 -	69	149	64 n		-	-	Average (of DGAC and PCC)	0
0+000	18568 Buses	-	-	-	64 n		-	-	Average (of DGAC and PCC)	0
0+000	18568 Motorcycles	-	-	-	64 n	one	-	-	Average (of DGAC and PCC)	0
0+000	18568 Auxiliary Veh	nicle -	-	-	- n	one	-	-	Average (of DGAC and PCC)	0
Valley Bl	vd WB Traffic direct	tion: In entry	direction							
0+000	14368 Total	-	633	530	- n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Automobiles	-	503	421	64 n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Medium trucl	ks -	52	43	64 n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Heavy trucks	5 -	78	66	64 n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Buses	-	-	-	64 n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Motorcycles	-	-	-	64 n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Auxiliary Veh	nicle -	-	-	- n	one	-	-	Average (of DGAC and PCC)	0
0+208	14368 Total		633	530	- T	raffic light	0	-	Average (of DGAC and PCC)	0
0+208	14368 Automobiles	-	503	421	64 T	raffic light	0	-	Average (of DGAC and PCC)	0
0+208	14368 Medium truck	ks -	52	43	64 T	raffic light	0	-	Average (of DGAC and PCC)	0
0+208	14368 Heavy trucks	5 -	78	66	64 T	raffic light	0	-	Average (of DGAC and PCC)	0
0+208	14368 Buses	-	-	-	64 T	raffic light	0	-	Average (of DGAC and PCC)	0
0+208	14368 Motorcycles	-	-	-	64 T	raffic light	0	-	Average (of DGAC and PCC)	0
0+208	14368 Auxiliary Veh	nicle -	-	-	- T	raffic light	0	-	Average (of DGAC and PCC)	0
0+570	-				-	-	-	-	-	-
0+000	14368 Total	-	633	530	- n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Automobiles	-	503	421	64 n	one	-	-	Average (of DGAC and PCC)	0
0+000	14368 Medium truck	ks -	52	43	64 n		-	-	Average (of DGAC and PCC)	0
0+000	14368 Heavy trucks		78	66	64 n		-	-	Average (of DGAC and PCC)	0
0+000	14368 Buses	-	-	-	64 n		-	-	Average (of DGAC and PCC)	0
0+000	14368 Motorcycles	-	-	-	64 n		-	-	Average (of DGAC and PCC)	0
0+000	14368 Auxiliary Veh	nicle -	-	-		one	-	-	Average (of DGAC and PCC)	0
	t. EB Traffic direction		irection						5 (-

Hunter St. EB Traffic direction: In entry direction

0+000	552 Total	-	22	25 -	none	-	-	Average (of DGAC and PCC)	0
0+000	552 Automobiles	-	17	20	64 none	-	-	Average (of DGAC and PCC)	0
0+000	552 Medium trucks	-	2	2	64 none	-	-	Average (of DGAC and PCC)	0
0+000	552 Heavy trucks	-	3	3	64 none	-	-	Average (of DGAC and PCC)	0
0+000	552 Buses		-		64 none	-	-	Average (of DGAC and PCC)	0
0+000	552 Motorcycles		-		64 none	-	-	Average (of DGAC and PCC)	0
0+000	552 Auxiliary Vehicle		-	-	none	-	-	Average (of DGAC and PCC)	0
0+362 -	, i j				-	-	-		
Iris Dr. EB	Traffic direction: In	entry direction							
0+000	312 Total	-	7	25 -	none	-		Average (of DGAC and PCC)	0
0+000	312 Automobiles	_	5	20	64 none	_	_	Average (of DGAC and PCC)	0
0+000	312 Medium trucks	_	1	20	64 none	_	_	Average (of DGAC and PCC)	0
0+000	312 Heavy trucks		1	2	64 none			Average (of DGAC and PCC)	0
0+000	312 Buses	-	1	J	64 none	-	-	Average (of DGAC and PCC)	0
0+000	312 Motorcycles		-		64 none	-	-	Average (of DGAC and PCC)	0
	•		-			-	-	-	
0+000	312 Auxiliary Vehicle		-	-	none	-	-	Average (of DGAC and PCC)	0
0+211 -					-	-	-		
Rosemary		n: In entry direct						((0000)	0
0+000	600 Total	-	21	33 -	none	-	-	Average (of DGAC and PCC)	0
0+000	600 Automobiles	-	16	26	64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Medium trucks	-	2	3	64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Heavy trucks	-	3	4	64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Buses		-		64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Motorcycles		-		64 none	-	-	Average (of DGAC and PCC)	0
0+000	600 Auxiliary Vehicle		-	-	none	-	-	Average (of DGAC and PCC)	0
0+210 -					-	-	-		
Redwood A	Ve SB Traffic direction	on: In entry direc	tion						
0+000	2544 Total	-	102	114 -	none	-	-	Average (of DGAC and PCC)	0
0+000	2544 Automobiles	-	80	90	64 none	-	-	Average (of DGAC and PCC)	0
0+000	2544 Medium trucks	-	9	10	64 none	-	-	Average (of DGAC and PCC)	0
0+000	2544 Heavy trucks	-	13	14	64 none	-	-	Average (of DGAC and PCC)	0
0+000	2544 Buses		-		64 none	-	-	Average (of DGAC and PCC)	0
0+000	2544 Motorcycles		-		64 none	-	-	Average (of DGAC and PCC)	0
0+000	2544 Auxiliary Vehicle		-	-	none	-	-	Average (of DGAC and PCC)	0
0+154	2544 Total	-	102	114 -	none	-	-	Average (of DGAC and PCC)	0
0+154	2544 Automobiles	-	80	90	64 none	-	-	Average (of DGAC and PCC)	0
0+154	2544 Medium trucks	-	9	10	64 none	-	-	Average (of DGAC and PCC)	0
0+154	2544 Heavy trucks	-	13	14	64 none	-	-	Average (of DGAC and PCC)	0
0+154	2544 Buses		-		64 none	-	-	Average (of DGAC and PCC)	0
0+154	2544 Motorcycles		-		64 none	-	-	Average (of DGAC and PCC)	0
0+154	2544 Auxiliary Vehicle		-	-	none	-	-	Average (of DGAC and PCC)	0
0+189	2864 Total	_	116	126 -	none	-	-	Average (of DGAC and PCC)	0
0+189	2864 Automobiles		91	99	64 none			Average (of DGAC and PCC)	0
0+189	2864 Medium trucks	_	10	11	64 none	_	_	Average (of DGAC and PCC)	0
0+189	2864 Heavy trucks		15	16	64 none			Average (of DGAC and PCC)	0
0+189	2864 Buses	-	15	10	64 none	-	-	Average (of DGAC and PCC)	0
			-			-	-		
0+189	2864 Motorcycles		-		64 none	-	-	Average (of DGAC and PCC)	0
0+189	2864 Auxiliary Vehicle		-	-	none	-	-	Average (of DGAC and PCC)	0
0+290	3056 Total	-	129	124 -	none	-	-	Average (of DGAC and PCC)	0
0+290	3056 Automobiles	-	102	98	64 none	-	-	Average (of DGAC and PCC)	0
0+290	3056 Medium trucks	-	11	10	64 none	-	-	Average (of DGAC and PCC)	0
0+290	3056 Heavy trucks	-	16	16	64 none	-	-	Average (of DGAC and PCC)	0
0+290	3056 Buses		-		64 none	-	-	Average (of DGAC and PCC)	0
0+290	3056 Motorcycles		-		64 none	-	-	Average (of DGAC and PCC)	0

0+290	3056 Auxiliary Vehicle -		-	none	-	-	Average (of DGAC and PCC)	0
0+328	3200 Total -	133	134 -	none	-	-	Average (of DGAC and PCC)	0
0+328	3200 Automobiles -	105	106	64 none	-	-	Average (of DGAC and PCC)	0
0+328	3200 Medium trucks -	11	11	64 none	-	-	Average (of DGAC and PCC)	0
0+328	3200 Heavy trucks -	17	17	64 none	-	-	Average (of DGAC and PCC)	0
0+328	3200 Buses -			64 none	-	-	Average (of DGAC and PCC)	0
0+328	3200 Motorcycles -			64 none	-	-	Average (of DGAC and PCC)	0
0+328	3200 Auxiliary Vehicle		-	none	-	-	Average (of DGAC and PCC)	0
0+384	3752 Total -	136	197 -	none	-	-	Average (of DGAC and PCC)	0
0+384	3752 Automobiles -	108	156	64 none	-	-	Average (of DGAC and PCC)	0
0+384	3752 Medium trucks	11	16	64 none		-	Average (of DGAC and PCC)	0
0+384	3752 Heavy trucks -	17	25	64 none	-	-	Average (of DGAC and PCC)	0
0+384	3752 Buses -			64 none	-	-	Average (of DGAC and PCC)	0
0+384	3752 Motorcycles -			64 none		-	Average (of DGAC and PCC)	0
0+384	3752 Auxiliary Vehicle		-	none	-	-	Average (of DGAC and PCC)	0
0+543	992 Total -	47	30 -	Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Automobiles -	37	23	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Medium trucks	4	3	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Heavy trucks	6	4	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Buses -		•	64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Motorcycles -			64 Traffic light		0 -	Average (of DGAC and PCC)	0
0+543	992 Auxiliary Vehicle			Traffic light		0 -	Average (of DGAC and PCC)	0
0+623	-			-				0
0+025	992 Total -	47	30 -	none			Average (of DGAC and PCC)	0
0+000	992 Automobiles -	37	23	64 none			Average (of DGAC and PCC)	0
0+000	992 Medium trucks	4	3	64 none			Average (of DGAC and PCC)	0
0+000	992 Heavy trucks -	6	4	64 none	-	-	Average (of DGAC and PCC)	0
0+000	992 Buses -	0	4	64 none	-	-	Average (of DGAC and PCC)	0
0+000	- AAA DUSES			04 HUHE	-	-	Average (or DGAC and FCC)	0
0,000	002 Motorcyclos			61 nono			Average (of $DCAC$ and DCC)	0
0+000	992 Motorcycles -			64 none	-	-	Average (of DGAC and PCC)	0
0+000	992 Auxiliary Vehicle -		-	64 none none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0
0+000 Redwoo	992 Auxiliary Vehicle - od Ave NB Traffic direction:	In entry direction	-	none	-	-	Average (of DGAC and PCC)	0
0+000 Redwoo 0+622	992 Auxiliary Vehicle - od Ave NB Traffic direction: 2352 Total -	90	- 114 - 90	none none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0
0+000 Redwoo 0+622 0+622	992 Auxiliary Vehicle - od Ave NB Traffic direction: 2352 Total - 2352 Automobiles -	90 71	90	none none 64 none	-	- - -	Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0
0+000 Redwoo 0+622 0+622 0+622	992 Auxiliary Vehicle - od Ave NB Traffic direction: 2352 Total - 2352 Automobiles - 2352 Medium trucks -	90 71 8	90 10	none none 64 none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622	992 Auxiliary Vehicle - od Ave NB Traffic direction: 2352 Total - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks -	90 71	90	none none 64 none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622	992 Auxiliary Vehicleod Ave NBTraffic direction:2352 Total-2352 Automobiles-2352 Medium trucks-2352 Heavy trucks-2352 Buses-	90 71 8	90 10	none none 64 none 64 none 64 none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622	992Auxiliary Vehicle-od Ave NBTraffic direction:23522352Total-2352Automobiles-2352Medium trucks-2352Heavy trucks-2352Buses-2352Motorcycles-	90 71 8	90 10	none none 64 none 64 none 64 none 64 none 64 none	-	-	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622	992 Auxiliary Vehicle-od Ave NBTraffic direction:2352 Total-2352 Automobiles-2352 Medium trucks-2352 Heavy trucks-2352 Buses-2352 Auxiliary Vehicle-	90 71 8 11 	90 10 14 -	none none 64 none 64 none 64 none 64 none 64 none none	-		Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701	992 Auxiliary Vehicle-od Ave NBTraffic direction:2352 Total-2352 Automobiles-2352 Medium trucks-2352 Heavy trucks-2352 Buses-2352 Auxiliary Vehicle-2352 Total-	90 71 8 11 - - 90	90 10 14 - 114 -	none none 64 none 64 none 64 none 64 none 64 none none Traffic light	-		Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701	992Auxiliary Vehicle-od Ave NBTraffic direction:2352Total-2352Automobiles-2352Automobiles-2352Heavy trucks-2352Buses-2352Auxiliary Vehicle-2352Total-2352Auxiliary Vehicle-2352Auxiliary Vehicle-2352Automobiles-2352Automobiles-	90 71 8 11 - - - 90 71	90 10 14 - 114 - 90	none none 64 none 64 none 64 none 64 none none Traffic light 64 Traffic light	-	0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701	992Auxiliary Vehicle-od Ave NBTraffic direction:-2352Total-2352Automobiles-2352Medium trucks-2352Heavy trucks-2352Buses-2352Auxiliary Vehicle-2352Auxiliary Vehicle-2352Automobiles-2352Automobiles-2352Automobiles-2352Automobiles-2352Automobiles-2352Medium trucks-	90 71 8 11 - 90 71 8	90 10 14 - 114 - 90 10	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light		0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701	992Auxiliary Vehicle-200Ave NBTraffic direction:-2352Total-2352Automobiles-2352Medium trucks-2352Heavy trucks-2352Buses-2352Automobiles-2352Autorcycles-2352Auxiliary Vehicle-2352Total-2352Automobiles-2352Automobiles-2352Heavy trucks-2352Heavy trucks-	90 71 8 11 - - - 90 71	90 10 14 - 114 - 90	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light		0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701	992 Auxiliary Vehicle - 992 Traffic direction: - 2352 Total - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Motorcycles - 2352 Auxiliary Vehicle - 2352 Total - 2352 Auxiliary Vehicle - 2352 Total - 2352 Automobiles - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Buses - 2352 Buses -	90 71 8 11 - 90 71 8	90 10 14 - 114 - 90 10	none none 64 none 64 none 64 none 64 none 64 none rraffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light		0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701	992 Auxiliary Vehicle - 240 NB Traffic direction: 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2352 Total - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Heavy trucks - 2352 Heavy trucks - 2352 Buses - 2352 Buses - 2352 Motorcycles -	90 71 8 11 - 90 71 8	90 10 14 - 114 - 90 10	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701	992 Auxiliary Vehicle - 240 NB Traffic direction: 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Buses - 2352 Heavy trucks - 2352 Buses - 2352 Buses - 2352 Buses - 2352 Buses - 2352 Motorcycles - 2352 Automobiles - 2352 Buses - 2352 Automobiles - 2352 Automobiles - 2352 Buses <t< td=""><td>90 71 8 11 - - 90 71 8 11 - - - - - - - - - - - - - - - - -</td><td>90 10 14 - 114 - 90 10 14</td><td>none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light</td><td></td><td>0 - 0 - 0 - 0 -</td><td>Average (of DGAC and PCC) Average (of DGAC and PCC)</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></t<>	90 71 8 11 - - 90 71 8 11 - - - - - - - - - - - - - - - - -	90 10 14 - 114 - 90 10 14	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light		0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860	992 Auxiliary Vehicle - od Ave NB Traffic direction: 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicles - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Medium trucks - 2352 Medium trucks - 2352 Buses - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicle - </td <td>90 71 8 11 90 71 8 11 114</td> <td>90 10 14 - 114 - 90 10 14 - 179 -</td> <td>none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light</td> <td></td> <td>0 - 0 - 0 - 0 - 0 -</td> <td>Average (of DGAC and PCC) Average (of DGAC and PCC)</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	90 71 8 11 90 71 8 11 114	90 10 14 - 114 - 90 10 14 - 179 -	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+700	992 Auxiliary Vehicle - 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Motorcycles - 2352 Automobiles - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Medium trucks - 2352 Medium trucks - 2352 Buses - 2352 Motorcycles - 2352 Motorcycles - 2352 Motorcycles - 2352 Auxiliary Vehicle -	90 71 8 11 - - - 90 71 8 11 - - - - - 114 90	90 10 14 114 - 90 10 14 - 179 - 142	none none 64 none 64 none 64 none 64 none 64 none 7raffic light 64 Traffic light 7raffic light none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860	992 Auxiliary Vehicle - 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Auxiliary Vehicle - 2352 Medium trucks - 2352 Automobiles - 2352 Medium trucks - 2352 Medium trucks - 2352 Buses - 2352 Medium trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2354 Auxiliary Vehicle - <	90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -	90 10 14 114 - 90 10 14 14 179 - 142 15	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 05 Traffic l	· · · · · · · · · · · · · · · · · · ·	0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860	992 Auxiliary Vehicle - 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Buses - 2352 Buses - 2352 Motorcycles - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2355 Auxiliary Vehicle - 3256 Automobiles -	90 71 8 11 - - - 90 71 8 11 - - - - - 114 90	90 10 14 114 - 90 10 14 - 179 - 142	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+860	992 Auxiliary Vehicle - 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Heavy trucks - 2352 Heavy trucks - 2352 Motorcycles - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Medium trucks - 2352 Medium trucks - 2352 Heavy trucks - 2352 Motorcycles - 2352 Motorcycles - 2352 Motorcycles - 2352 Motorcycles - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicle - 2354 Auxiliary Vehicle - 3256 Automobiles - 3256 Heavy trucks -	90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -	90 10 14 114 - 90 10 14 14 179 - 142 15	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860	992 Auxiliary Vehicle - od Ave NB Traffic direction: - 2352 Total - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Buses - 2352 Automobiles - 2352 Motorcycles - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Motorcycles - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicles - 2355 Auxiliary Vehicles - 3256 Automobiles - 3256 <td< td=""><td>90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -</td><td>90 10 14 114 - 90 10 14 14 179 - 142 15</td><td>none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none</td><td></td><td>0 - 0 - 0 - 0 - 0 -</td><td>Average (of DGAC and PCC) Average (of DGAC and PCC)</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></td<>	90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -	90 10 14 114 - 90 10 14 14 179 - 142 15	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+860	992 Auxiliary Vehicle - od Ave NB Traffic direction: - 2352 Total - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Buses - 2352 Automobiles - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicle - 3256 Automobiles - 3256 Buses - 3256 Buses - <td>90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -</td> <td>90 10 14 - 114 - 90 10 14 - 179 - 142 15 22</td> <td>none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none</td> <td></td> <td>0 - 0 - 0 - 0 - 0 -</td> <td>Average (of DGAC and PCC) Average (of DGAC and PCC)</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -	90 10 14 - 114 - 90 10 14 - 179 - 142 15 22	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+701 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860 0+860	992 Auxiliary Vehicle - 2352 Total - 2352 Automobiles - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Total - 2352 Motorcycles - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Motorcycles - 2352 Buses - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2355 Automobiles - 3256 Medium trucks - 3256 Medium trucks - 3256 Buses - 3256 Auxiliary	90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -	90 10 14 - 114 - 90 10 14 - 179 - 142 15 22 - 178 -	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 Traffic light 64 none 64 none 65 none 66 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0+000 Redwood 0+622 0+622 0+622 0+622 0+622 0+622 0+701 0+860	992 Auxiliary Vehicle - od Ave NB Traffic direction: - 2352 Total - 2352 Automobiles - 2352 Medium trucks - 2352 Heavy trucks - 2352 Buses - 2352 Automobiles - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Automobiles - 2352 Heavy trucks - 2352 Buses - 2352 Auxiliary Vehicle - 2352 Automobiles - 2352 Auxiliary Vehicles - 2352 Auxiliary Vehicle - 3256 Automobiles - 3256 Buses - 3256 Buses - <td>90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -</td> <td>90 10 14 - 114 - 90 10 14 - 179 - 142 15 22</td> <td>none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none</td> <td></td> <td>0 - 0 - 0 - 0 - 0 -</td> <td>Average (of DGAC and PCC) Average (of DGAC and PCC)</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	90 71 8 11 - - - 90 71 8 11 - - - - - - - - - - - - - - - - -	90 10 14 - 114 - 90 10 14 - 179 - 142 15 22	none none 64 none 64 none 64 none 64 none 64 none Traffic light 64 Traffic light 64 none 64 none		0 - 0 - 0 - 0 - 0 -	Average (of DGAC and PCC) Average (of DGAC and PCC)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0+917	3072 Medium trucks	-		9	15	64 none	-	-	Average (of DGAC and PCC)	0
0+917	3072 Heavy trucks	-		13	22	64 none	-	-	Average (of DGAC and PCC)	0
0+917	3072 Buses	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+917	3072 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+917	3072 Auxiliary Vehicle	-	-	-	-	none	-	-	Average (of DGAC and PCC)	0
0+958	2872 Total	-		98	163 -	none	-	-	Average (of DGAC and PCC)	0
0+958	2872 Automobiles	-		78	129	64 none	-	-	Average (of DGAC and PCC)	0
0+958	2872 Medium trucks	-		8	14	64 none	-	-	Average (of DGAC and PCC)	0
0+958	2872 Heavy trucks	-		12	20	64 none	-	-	Average (of DGAC and PCC)	0
0+958	2872 Buses	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+958	2872 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
0+958	2872 Auxiliary Vehicle	-	-	-	-	none	-	-	Average (of DGAC and PCC)	0
1+057	2472 Total	-		80	149 -	none	-	-	Average (of DGAC and PCC)	0
1+057	2472 Automobiles	-		63	118	64 none	-	-	Average (of DGAC and PCC)	0
1+057	2472 Medium trucks	-		7	12	64 none	-	-	Average (of DGAC and PCC)	0
1+057	2472 Heavy trucks	-		10	19	64 none	-	-	Average (of DGAC and PCC)	0
1+057	2472 Buses	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+057	2472 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+057	2472 Auxiliary Vehicle	-	-	-	-	none	-	-	Average (of DGAC and PCC)	0
1+091	2272 Total	-		72	140 -	none	-	-	Average (of DGAC and PCC)	0
1+091	2272 Automobiles	-		57	110	64 none	-	-	Average (of DGAC and PCC)	0
1+091	2272 Medium trucks	-		6	12	64 none	-	-	Average (of DGAC and PCC)	0
1+091	2272 Heavy trucks	-		9	18	64 none	-	-	Average (of DGAC and PCC)	0
1+091	2272 Buses	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+091	2272 Motorcycles	-	-	-		64 none	-	-	Average (of DGAC and PCC)	0
1+091	2272 Auxiliary Vehicle		-	-	-	none	-	-	Average (of DGAC and PCC)	0
1+242 -						-	-	-		

Redwood Avenue Warehouse 13419 Opening Year 2017 With Project Receivers

No.	Receiver name	Building side	Floor	Level Day dB(A)	Night
11	Single Family Home NE		GF	60	61.7
22	Storage Facility N	(GF	63.7	65.2
33	Single Family Home E1	(GF	61.2	62.7
4 4	Single Family Home E2	(GF	61.2	62.6
55	Single Family Home E3	(GF	61.3	62.7
66	Single Family Home E4	(GF	62.4	63.7
77	Commercial SE	(GF	62.7	64.1
88	Single Family Home S	(GF	62.4	63.4
99	Single Family Home S2	(GF	54	55.3
10 10	0 Single Family Home W	(GF	48.9	50.4

Redwood Avenue Warehouse 13419 Opening Year 2017 With Project Contributions

Source name	05	Level Day dB(A)	Night
1 Single Family Home NE	GF	60.0	61.7
Hunter St. EB		28.4	28.4
Iris Dr. EB		25.1	29.8
Redwood Ave NB		56.2	59.2
Redwood Ave SB		57.4	57.8
Rosemary Dr EB		34.5	35.9
Valley Blvd EB		40.5	43.9
Valley Blvd WB		41.2	40.5
2 Storage Facility N GF		63.7	65.2
Hunter St. EB Iris Dr. EB		29.9 27 F	29.9
Redwood Ave NB		27.5 59.2	32.2 62.2
Redwood Ave SB		61.7	62.2 62.1
Rosemary Dr EB		38.0	39.5
Valley Blvd EB		41.6	44.9
Valley Blvd WB		41.0	44.7
3 Single Family Home E1	GF	61.2	62.7
Hunter St. EB	0	31.1	31.2
Iris Dr. EB		29.9	34.5
Redwood Ave NB		57.5	60.2
Redwood Ave SB		58.2	58.6
Rosemary Dr EB		45.8	47.3
Valley Blvd EB		42.7	46.0
Valley Blvd WB		43.4	42.7
4 Single Family Home E2	GF	61.2	62.6
Hunter St. EB		32.3	32.4
Iris Dr. EB		32.9	37.6
Redwood Ave NB		57.3	59.7
Redwood Ave SB		57.8	58.2
Rosemary Dr EB		50.7	52.2
Valley Blvd EB		43.7	47.0
Valley Blvd WB		44.4	43.7
5 Single Family Home E3	GF	61.3	62.7
Hunter St. EB		35.1	35.2
Iris Dr. EB		41.7	46.3
Redwood Ave NB		57.7	60.0
Redwood Ave SB		58.1	58.4

Decompose Dr EP	38.4	39.8
Rosemary Dr EB	45.7	49.0
Valley Blvd EB Valley Blvd WB	45.7	49.0 45.6
6 Single Family Home E4 GF	62.4	63.7
Hunter St. EB	38.2	38.3
Iris Dr. EB	42.2	46.9
Redwood Ave NB	59.1	61.3
Redwood Ave SB	58.9	59.0
Rosemary Dr EB	34.6	36.0
Valley Blvd EB	47.0	50.3
Valley Blvd WB	47.7	47.0
7 Commercial SE GF	62.7	64.1
Hunter St. EB	39.9	40.1
Iris Dr. EB	28.9	33.6
Redwood Ave NB	58.6	59.7
Redwood Ave SB	58.7	60.2
Rosemary Dr EB	29.2	30.6
Valley Blvd EB	52.4	55.7
Valley Blvd WB	53.2	52.4
8 Single Family Home S GF	62.4	63.4
Hunter St. EB	45.0	45.1
Iris Dr. EB	34.0	38.7
Redwood Ave NB	57.7	59.6
Redwood Ave SB	59.8	59.9
Rosemary Dr EB	32.1	33.6
Valley Blvd EB	48.5	51.8
Valley Blvd WB	49.2	48.5
9 Single Family Home S2 GF	54.0	55.3
Hunter St. EB	47.2	47.4
Iris Dr. EB	25.9	30.7
Redwood Ave NB	42.9	44.8
Redwood Ave SB	44.2	44.9
Rosemary Dr EB	28.5	29.8
Valley Blvd EB	48.4	51.8
Valley Blvd WB	49.1	48.4
10 Single Family Home W GF	48.9	50.4
Hunter St. EB	34.4	34.5
Iris Dr. EB	23.3	28.0
Redwood Ave NB	39.9	42.1
Redwood Ave SB	41.2	41.7
Rosemary Dr EB	28.5	29.9
Valley Blvd EB	43.7	47.0
Valley Blvd WB	44.3	43.6

Redwood Avenue Warehouse 13419 Opening Year 2017 With Project Receiver Spectra

No. Name	Floor	Time slice	50 Hz	63 Hz 🛛	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz 💈	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1 kHz	2 kHz	2 kHz	2 kHz	3 kHz	4 kHz 🛛	5 kHz	6 kHz 🛛	8 kHz	10 kHz
1 1 Single Family Home NE	GF	Day	28.1	35	39.1	41.3	42.8	44.3	45.5	46.4	47.9	47.2	48.7	50.1	49.9	50.1	49.2	48.3	47.7	46.8	46.2	44.2	42	39.9	37	32.8
1 1 Single Family Home NE	GF	Night	29.8	36.7	40.8	43.1	44.6	46.1	47.3	48.4	49.9	48.9	50.4	52	51.5	51.7	50.7	49.8	49.1	48.3	47.8	45.9	43.6	41.5	38.6	34.4
2 2 Storage Facility N	GF	Day	30.7	37.6	41.8	44.1	45.6	47.3	48.9	51.4	51	51.1	53.3	54.2	53.7	54.3	53.3	52.1	51.2	49.6	48.6	46.3	44.7	42.5	39.6	35.5
2 2 Storage Facility N	GF	Night	32.2	39.1	43.2	45.5	47	48.7	50.3	52.6	52.6	52.4	54.6	55.7	55.3	55.8	54.9	53.7	52.8	51.2	50.1	47.8	46.1	43.9	41	36.8
3 3 Single Family Home E1	GF	Day	29.5	36.4	40.5	42.7	44.2	45.7	46.9	47.6	48.9	48.5	49.9	51	51	51.3	50.3	49.4	48.8	47.9	47.5	45.6	43.3	41.1	38.2	34
3 3 Single Family Home E1	GF	Night	31.1	38	42.1	44.4	45.9	47.3	48.6	49.4	50.7	50.1	51.5	52.8	52.6	52.8	51.8	50.8	50.2	49.3	49	47.1	44.8	42.7	39.7	35.5
4 4 Single Family Home E2	GF	Day	29.8	36.7	40.8	43	44.5	45.9	47.1	47.4	48.9	48.7	50.2	50.8	51.2	51.4	50.1	49.2	48.5	48	47.8	46	43.8	41.6	38.6	34.4
4 4 Single Family Home E2	GF	Night	31.3	38.2	42.2	44.5	46	47.4	48.5	48.9	50.4	50.2	51.6	52.4	52.6	52.8	51.4	50.5	49.8	49.3	49.2	47.3	45.2	42.9	40	35.8
5 5 Single Family Home E3	GF	Day	29.9	36.8	40.9	43.2	44.6	46	47.2	47.5	48.7	48.6	50.1	50.8	51	51.4	50.2	49.3	48.8	48.2	48.2	46.1	43.7	41.5	38.6	34.3
5 5 Single Family Home E3	GF	Night	31.4	38.3	42.4	44.7	46.1	47.5	48.7	49	50.3	50	51.5	52.4	52.4	52.8	51.5	50.6	50	49.5	49.5	47.5	45.1	42.9	39.9	35.7
6 6 Single Family Home E4	GF	Day	30.7	37.6	41.7	44	45.4	46.9	48.1	49	50	49.5	51.2	52.3	52.1	52.5	51.7	50.6	50	49.3	48.8	46.7	43.9	42.1	39.1	35
6 6 Single Family Home E4	GF	Night	32.1	39	43.1	45.4	46.9	48.4	49.6	50.6	51.6	50.8	52.6	53.9	53.4	53.7	52.9	51.8	51.2	50.6	50.2	48.1	45.2	43.4	40.5	36.3
7 7 Commercial SE	GF	Day	31.6	38.6	42.6	44.9	46.4	47.8	49	49.8	50.1	49.4	51.3	52.2	52.2	52.8	52.1	51.1	50.4	49.4	48.7	47.1	44.7	42.3	39.3	35.1
7 7 Commercial SE	GF	Night	33	39.9	44	46.3	47.8	49.2	50.4	51.1	51.4	50.7	52.6	53.5	53.6	54.1	53.5	52.5	51.8	50.8	50.1	48.5	46.2	43.7	40.8	36.5
8 8 Single Family Home S	GF	Day	31.1	37.9	42	44.3	45.8	47.2	48.4	49.1	50.1	49.5	51.1	52.3	51.9	52.5	51.5	50.5	49.9	49.3	49.1	46.5	43.8	42.1	39.2	35
8 8 Single Family Home S	GF	Night	32.1	39	43.1	45.4	46.8	48.2	49.4	49.9	50.8	50.4	52.1	53	52.9	53.5	52.5	51.6	51.1	50.5	50.3	47.7	44.9	43.2	40.3	36.1
10 10 Single Family Home W	GF	Day	21.7	28.5	32.5	34.7	36	37.1	37.6	32.8	27.2	23.1	26.4	28.6	31.3	33.2	34.5	35.7	37	39.1	40.7	39.1	36.8	34.7	31.6	26.9
10 10 Single Family Home W	GF	Night	23.2	30	34	36.2	37.5	38.6	39.1	34.2	28.5	24.7	27.9	30.2	32.7	34.6	35.9	37.2	38.4	40.5	42.2	40.7	38.4	36.3	33.2	28.5
9 9 Single Family Home S2	GF	Day	26	32.8	36.9	39.1	40.4	41.7	42.4	40.7	37.5	35.8	38.4	39.6	40.4	41.7	42.1	42.6	43	44.1	44.2	40.5	37.8	35.6	32.5	28
9 9 Single Family Home S2	GF	Night	27.3	34.2	38.2	40.5	41.8	43	43.7	41.9	38.5	36.5	39.1	40.4	41.4	42.8	43.3	43.9	44.4	45.5	45.7	42	39	36.9	33.8	29.3

Redwood Avenue Warehouse 13419 Warehouse Operation Industry

				Freq	Jency	spect	rum (dE	B(A)]																			
Source name	Reference	Level		50	63	80	100	125	160	200	250	315	400	500	630	800	1	1.3	1.6	2	2.5	3.2	4	5	6.3	8	10
			dB(A)	Hz	Hz	Hz	Ηz	Hz I	Hz	Hz	Hz	Ηz	Hz	Hz	Hz	Hz	kHz I	kHz	kHz								
Truck Docking Area	Unit	Day	97.1	53	55	59	68	68	69	76	78	80	82	84	88	90	87	87	86	86	85	84	83	81	78	77	74
Truck Parking Area	Unit	Day	61	-	28			38 -		-	45			51	-	-	54	-	-	55	-	-	55	-	-	53	-
Passenger Car Parking Area N	Unit	Day	97.1	53	55	59	68	68	69	76	78	80	82	84	88	90	87	87	86	86	85	84	83	81	78	77	74
Passenger Car Parking Area W	Unit	Day	97.1	53	55	59	68	68	69	76	78	80	82	84	88	90	87	87	86	86	85	84	83	81	78	77	74

Redwood Avenue Warehouse 13419 Warehouse Operation Receivers

			Level
No.	Receiver name	Floor	Day
			dB(A)
1 1 Sin	gle Family Home NE	GF	42.5
2 2 Sto	orage Facility N	GF	48.5
3 3 Sin	gle Family Home E1	GF	46.5
4 4 Sin	gle Family Home E2	GF	38.2
5 5 Sin	gle Family Home E3	GF	31.8
6 6 Sin	gle Family Home E4	GF	42.4
7 7 Co	mmercial SE	GF	39.6
8 8 Sin	gle Family Home S	GF	44.7
9 9 Sin	gle Family Home S2	GF	48.8
10 10 S	ingle Family Home W	GF	63.2

Redwood Avenue Warehouse 13419 Warehouse Operation Contributions

Contributions		Level
Sourc	Day	
		dB(A)
1 Single Family Home NE	GF	42.5
Passenger Car Parking Area N		42.3
Passenger Car Parking Area W		28.9
Truck Docking Area		18
Truck Parking Area		-15.2
2 Storage Facility N GF		48.5
Passenger Car Parking Area N		48.4
Passenger Car Parking Area W		30.6
Truck Docking Area		19.9
Truck Parking Area		-14.9
3 Single Family Home E1	GF	46.5
Passenger Car Parking Area N		46.4
Passenger Car Parking Area W		28.7
Truck Docking Area		21.4
Truck Parking Area		-13.3
4 Single Family Home E2	GF	38.2
Passenger Car Parking Area N		38
Passenger Car Parking Area W		19.5
Truck Docking Area		23.3
Truck Parking Area		-11.8
5 Single Family Home E3	GF	31.8
Passenger Car Parking Area N		29.4
Passenger Car Parking Area W		20
Truck Docking Area		27.3
Truck Parking Area	A F	-3.4
6 Single Family Home E4	GF	42.4
Passenger Car Parking Area N		25.6
Passenger Car Parking Area W		29.6
Truck Docking Area		42.1
Truck Parking Area 7 Commercial SE GF		6.6
		39.6
Passenger Car Parking Area N		20.1 28.4
Passenger Car Parking Area W		
Truck Docking Area Truck Parking Area		39.2 2.4
8 Single Family Home S	GF	44.7
o Single Failing Hume S	01	44.7

Passenger Car Parking Area N		22.5
Passenger Car Parking Area W		31
Truck Docking Area		44.5
Truck Parking Area		9.2
9 Single Family Home S2	GF	48.8
Passenger Car Parking Area N		19.4
Passenger Car Parking Area W		38.6
Truck Docking Area		48.3
Truck Parking Area		15.8
10 Single Family Home W	GF	63.2
Passenger Car Parking Area N		38.9
Passenger Car Parking Area W		63.2
Truck Docking Area		31.5
Truck Parking Area		-8.2

Redwood Avenue Warehouse 13419 Warehouse Operation Receiver Spectra

No. Name	Floor	Time slice	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1 kHz	2 kHz	2 kHz	2 kHz	3 kHz	4 kHz	5 kHz	6 kHz	8 kHz	10 kHz
1 1 Single Family Home NE	GF	Day	-1.7	0.2	4.1	13	12.9	14.4	21.6	23.7	25.8	28.1	30.3	34.2	36.1	33	32.8	31.5	31.1	29.4	27.3	24.7	20.3	13.7	7.4	-2.5
2 2 Storage Facility N	GF	Day	3.9	5.9	9.8	18.9	19.1	20.1	27.2	29.4	31.7	33.8	35.8	39.9	41.8	38.8	38.7	37.6	37.3	36	34.5	32.7	29.6	25	21.7	15.9
3 3 Single Family Home E1	GF	Day	2.9	4.9	8.8	17.8	17.7	18.7	25.6	27.6	29.6	31.6	33.7	37.8	39.8	36.8	36.7	35.6	35.3	34	32.5	30.7	27.6	23.1	19.8	14.1
4 4 Single Family Home E2	GF	Day	-0.7	0.7	4.2	12.7	12.2	12.7	19.3	20.9	22.6	24.3	26	29.8	31.6	28.4	28.2	27	26.7	25.3	23.8	22	18.8	14.1	10.3	3.7
5 5 Single Family Home E3	GF	Day	-2.5	-1.2	1.9	10.1	9.3	9.3	15.5	16.8	18	19.2	20.5	23.9	25.2	21.7	21.1	19.5	18.9	17.1	15.1	12.6	8.5	2.4	-3.4	-12.8
6 6 Single Family Home E4	GF	Day	-0.6	1.2	5	13.9	13.8	14.7	21.7	23.7	25.8	28	30	34	36	32.9	32.7	31.5	31.1	29.5	27.7	25.3	21.4	15.7	10.7	2.5
7 7 Commercial SE	GF	Day	-4	-2.1	1.7	10.6	10.5	11.9	19	21	23	25.5	27.6	31.5	33.4	30.2	30	28.6	28	26.1	23.6	20.3	14.9	6.8	-2	-15.3
8 8 Single Family Home S	GF	Day	0.4	2.4	6.4	15.5	15.4	16.4	23.6	25.9	28	30.1	32.3	36.3	38.3	35.2	35	33.8	33.5	32	30.1	27.9	24	18.3	13.4	5.2
9 9 Single Family Home S2	GF	Day	4.5	6.4	10.7	19.7	19.7	20.6	27.9	29.9	32.1	34.3	36.2	40.2	42.1	39.1	39	37.8	37.6	36.2	34.6	32.7	29.3	24.2	20.2	12.9
10 10 Single Family Home W	GF	Day	19.1	21.1	25	34	34	35.1	42.2	44.2	46.3	48.3	50.3	54.2	56.2	53.2	53.2	52.2	52.1	51.1	50	48.8	46.6	43.3	41.8	38.2