



Moreno Valley Walmart

NOISE IMPACT ANALYSIS

CITY OF MORENO VALLEY

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FEBRUARY 10, 2015

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LIST OF ABBREVIATED TERMS

(1)	Reference
ADT	Average Daily Traffic
ANSI	American National Standards Institute
Calveno	California Vehicle Noise
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dBA	A-weighted decibels
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
HVAC	Heating, Ventilation and Air-Conditioning
INCE	Institute of Noise Control Engineering
Leq	Equivalent continuous (average) sound level
Lmax	Maximum level measured over the time interval
Lmin	Minimum level measured over the time interval
mph	Miles per hour
NLR	Noise Level Reduction
Project	Moreno Valley Walmart
RCNM	Roadway Construction Noise Model
REMEL	Reference Energy Mean Emission Level
STC	Sound Transmission Class
VdB	Vibration Decibels

1 INTRODUCTION

This noise analysis has been completed to determine the noise impacts associated with the development of the proposed Moreno Valley Walmart ("Project"). This noise study briefly describes the proposed Project, provides information regarding noise fundamentals, describes the local regulatory setting, provides the study methods and procedures for traffic noise analysis, and evaluates the future exterior noise environment. In addition, this study includes an analysis of the potential Project-related long-term operational noise impacts and short-term construction noise impacts.

1.1 SITE LOCATION

The proposed Moreno Valley Walmart development is located west of Perris Boulevard and south of Gentry Avenue in the City of Moreno Valley as shown on Exhibit 1-A. The Project site is currently vacant.

EXHIBIT 1-A: LOCATION MAP



1.2 STUDY AREA

The Project site is located within area developed mostly with residential and commercial land uses as shown on Exhibit 1-B. The existing residential community located approximately 1,500 west of the site across Indian Street includes a six-foot high masonry perimeter sound wall. The residential homes located approximately 700 feet north of the project site include a combination of fencing materials (wood and chain-link) that provide limited noise attenuation potential.

The March Middle School and Rainbow Ridge Elementary School are situated approximately 1,300 feet southwest of the Project site. The commercial land use located south the Project consists of an existing Home Depot. The land uses east of the Project site across Perris Boulevard include residential and a large parcel reserved for the use as the City Yard. To ensure that the noise analysis presents the worst-case future noise impacts associated with development of the Project, this analysis also identifies the impacts for the planned adjacent residential areas that are currently vacant to the north and west of the Project site.

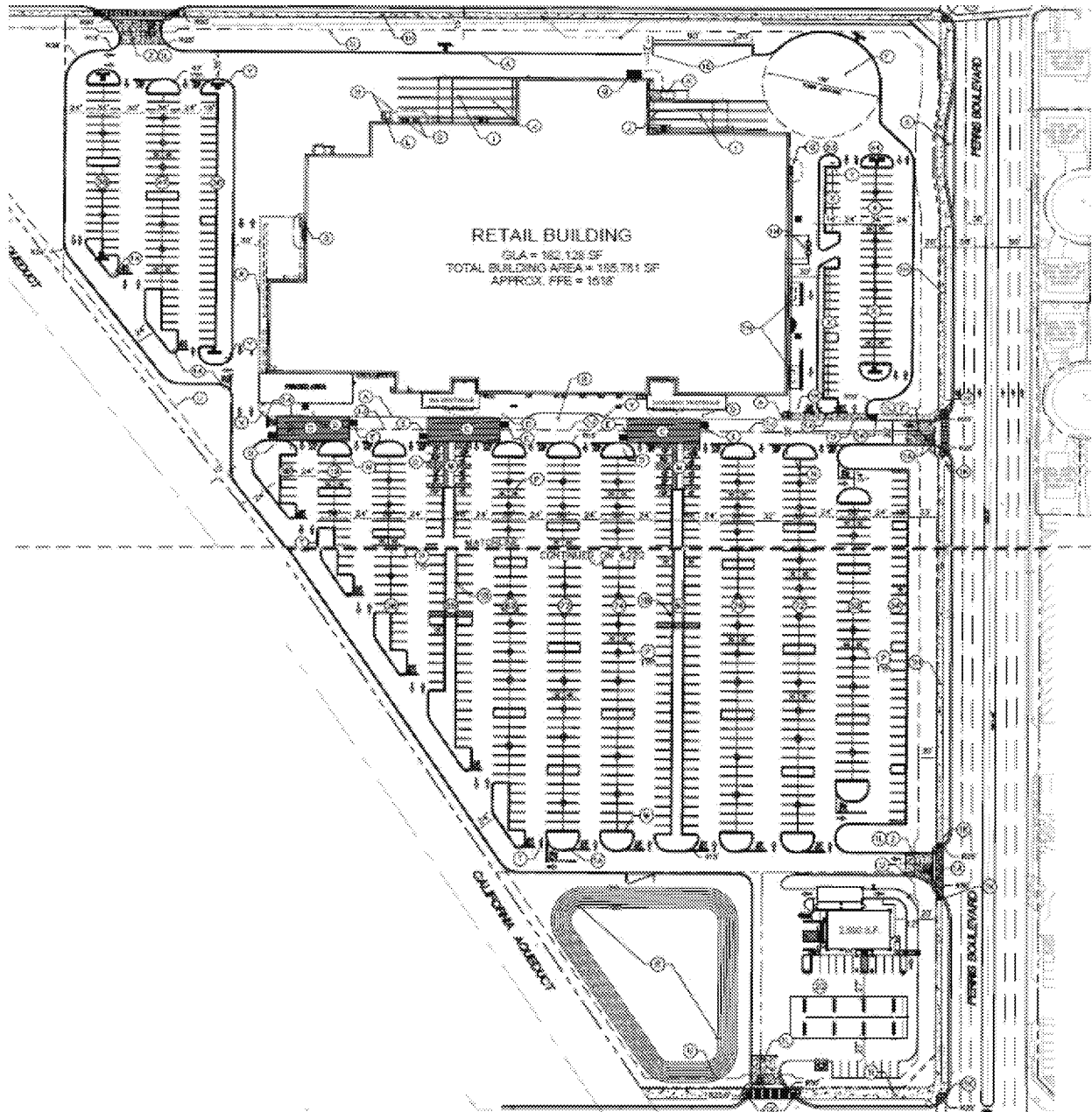
1.3 PROJECT DESCRIPTION

The Project includes the development of a 185,761 square foot free-standing discount superstore and a 16 vehicle fueling position gas station with convenience market and car wash. It is assumed that the Project will be constructed and occupied by 2018. Exhibit 1-C illustrates a preliminary conceptual site plan

EXHIBIT 1-B: EXISTING LAND USES



EXHIBIT 1-C: SITE PLAN



2 FUNDAMENTALS

Noise has been simply defined as "unwanted sound." Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm or when it has adverse effects on health. Noise is measured on a logarithmic scale of sound pressure level known as a decibel (dB). A-weighted decibels (dBA) approximate the subjective response of the human ear to broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies which are audible to the human ear. Exhibit 2-A presents a summary of the typical noise levels and their subjective loudness and effects that are described in more detail below.

EXHIBIT 2-A: TYPICAL NOISE LEVELS

COMMON OUTDOOR ACTIVITIES	COMMON INDOOR ACTIVITIES	A - WEIGHTED SOUND LEVEL dBA	SUBJECTIVE LOUDNESS	EFFECTS OF NOISE
THRESHOLD OF PAIN		140	INTOLERABLE OR DEAFENING	HEARING LOSS
NEAR JET ENGINE		130		
		120		
JET FLY-OVER AT 300m (1000 ft)	ROCK BAND	110		
LOUD AUTO HORN		100		
GAS LAWN MOWER AT 1m (3 ft)		90	VERY NOISY	
DIESEL TRUCK AT 15m (50 ft), at 80 km/hr (50 mph)	FOOD BLENDER AT 1m (3 ft)	80		
NOISY URBAN AREA, DAYTIME	VACUUM CLEANER AT 3m (10 ft)	70	LOUD	SPEECH INTERFERENCE
HEAVY TRAFFIC AT 90m (300 ft)	NORMAL SPEECH AT 1m (3 ft)	60		
QUIET URBAN DAYTIME	LARGE BUSINESS OFFICE	50	MODERATE	SLEEP DISTURBANCE
QUIET URBAN NIGHTTIME	THEATER, LARGE CONFERENCE ROOM (BACKGROUND)	40		
QUIET SUBURBAN NIGHTTIME	LIBRARY	30	FAINT	NO EFFECT
QUIET RURAL NIGHTTIME	BEDROOM AT NIGHT, CONCERT HALL (BACKGROUND)	20		
	BROADCAST/RECORDING STUDIO	10	VERY FAINT	
LOWEST THRESHOLD OF HUMAN HEARING	LOWEST THRESHOLD OF HUMAN HEARING	0		

Source: Environmental Protection Agency Office of Noise Abatement and Control, Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (EPA/ONAC 550/9-74-004) March 1974.

2.1 RANGE OF NOISE

Since the range of intensities that the human ear can detect is so large, the scale frequently used to measure intensity is a scale based on multiples of 10, the logarithmic scale. The scale for measuring intensity is the decibel scale. Each interval of 10 decibels indicates a sound energy ten times greater than before, which is perceived by the human ear as being roughly twice as loud.(1) The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at three feet is roughly at 60 dBA, while loud jet engine noises equate to 110 dBA at approximately 100 feet, which can cause serious discomfort.(2) Another

important aspect of noise is the duration of the sound and the way it is described and distributed in time.

2.2 NOISE DESCRIPTORS

Environmental noise descriptors are generally based on averages, rather than instantaneous, noise levels. The most commonly used figure is the equivalent level (Leq). Equivalent sound levels are not measured directly but are calculated from sound pressure levels typically measured in A-weighted decibels (dBA). The equivalent sound level (Leq) represents a steady state sound level containing the same total energy as a time varying signal over a given sample period.

Peak hour or average noise levels, while useful, do not completely describe a given noise environment. Noise levels lower than peak hour may be disturbing if they occur during times when quiet is most desirable, namely evening and nighttime (sleeping) hours. To account for this, the Community Noise Equivalent Level (CNEL), representing a composite twenty-four hour noise level is utilized. The CNEL is the weighted average of the intensity of a sound, with corrections for time of day, and averaged over 24 hours. The time of day corrections require the addition of 5 decibels to dBA Leq sound levels in the evening from 7:00 p.m. to 10:00 p.m., and the addition of 10 decibels to dBA Leq sound levels at night between 10:00 p.m. and 7:00 a.m. These additions are made to account for the noise sensitive time periods during the evening and night hours when sound appears louder. CNEL does not represent the actual sound level heard at any particular time, but rather represents the total sound exposure. The City of Moreno Valley relies on the 24-hour CNEL level to assess land use compatibility with transportation related noise sources.

2.3 SOUND PROPAGATION

When sound propagates over a distance, it changes in level and frequency content. The manner in which noise reduces with distance depends on the following factors.

2.3.1 GEOMETRIC SPREADING

Sound from a localized source (i.e., a stationary point source) propagates uniformly outward in a spherical pattern. The sound level attenuates (or decreases) at a rate of 6 dB for each doubling of distance from a point source. Highways consist of several localized noise sources on a defined path and hence can be treated as a line source, which approximates the effect of several point sources. Noise from a line source propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of 3 dB for each doubling of distance from a line source.

2.3.2 GROUND ABSORPTION

The propagation path of noise from a highway to a receptor is usually very close to the ground. Noise attenuation from ground absorption and reflective wave canceling adds to the attenuation associated with geometric spreading. Traditionally, the excess attenuation has also

been expressed in terms of attenuation per doubling of distance. This approximation is usually sufficiently accurate for distances of less than 200 ft. For acoustically hard sites (i.e., sites with a reflective surface between the source and the receptor, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface between the source and the receptor such as soft dirt, grass, or scattered bushes and trees), an excess ground attenuation value of 1.5 dB per doubling of distance is normally assumed. When added to the cylindrical spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 dB per doubling of distance from a line source.

2.3.3 ATMOSPHERIC EFFECTS

Receptors located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Sound levels can be increased at large distances (e.g., more than 500 ft) due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects.

2.3.4 SHIELDING

A large object or barrier in the path between a noise source and a receptor can substantially attenuate noise levels at the receptor. The amount of attenuation provided by shielding depends on the size of the object and the frequency content of the noise source. Shielding by trees and other such vegetation typically only has an “out of sight, out of mind” effect. That is, the perception of noise impact tends to decrease when vegetation blocks the line-of-sight to nearby resident. However, for vegetation to provide a substantial, or even noticeable, noise reduction, the vegetation area must be at least 15 feet in height, 100 feet wide and dense enough to completely obstruct the line-of sight between the source and the receptor. This size of vegetation may provide up to 5 dBA of noise reduction. The FHWA does not consider the planting of vegetation to be a noise abatement measure.

2.4 TRAFFIC NOISE PREDICTION

Vehicle noise is a combination of the noise produced by the engine, exhaust, and tires on the roadway. According to the *Highway Traffic Noise Analysis and Abatement Policy and Guidance*, provided by the Federal Highway Administration, the level of traffic noise depends on three primary factors: the volume of the traffic, the speed of the traffic, and the vehicle mix within the flow of traffic. Generally, the loudness of traffic noise is increased by heavier traffic volumes, higher speeds, and a greater number of trucks.⁽³⁾ A doubling of the traffic volume, assuming that the speed and vehicle mix do not change, results in a noise level increase of 3 dBA. The vehicle mix on a given roadway may also have an effect on community noise levels. As the number of medium and heavy trucks increases and becomes a larger percentage of the vehicle mix, adjacent noise level impacts will increase.

2.5 NOISE CONTROL

Noise control is the process of obtaining an acceptable noise environment for a particular observation point or receptor by controlling the noise source, transmission path, receptor, or all three. This concept is known as the source-path-receptor concept. In general, noise control measures can be applied to any and all of these three elements.

2.6 NOISE BARRIER ATTENUATION

Effective noise barriers can reduce noise levels by 10 to 15 dBA, cutting the loudness of traffic noise in half. A noise barrier is most effective when placed close to the noise source or receptor. Noise barriers, however, do have limitations. For a noise barrier to work, it must be high enough and long enough to block the view of the noise source. (3)

2.7 LAND USE COMPATIBILITY WITH NOISE

Some land uses are more tolerant of noise than others. For example, schools, hospitals, churches and residences are more sensitive to noise intrusion than are commercial or industrial activities. As ambient noise levels affect the perceived amenity or livability of a development, so too can the mismanagement of noise impacts impair the economic health and growth potential of a community by reducing the area's desirability as a place to live, shop and work. For this reason, land use compatibility with the noise environment is an important consideration in the planning and design process.

The FHWA encourages State and Local government to regulate land development in such a way that noise-sensitive land uses are either prohibited from being located adjacent to a highway, or that the developments are planned, designed, and constructed in such a way that noise impacts are minimized. (4)

2.8 COMMUNITY RESPONSE TO NOISE

Community responses to noise may range from registering a complaint by telephone or letter, to initiating court action, depending upon each individual's susceptibility to noise and personal attitudes about noise. Several factors are related to the level of community annoyance including:

- Fear associated with noise producing activities;
- Socio-economic status and educational level of the receptor;
- Noise receptor's perception that they are being unfairly treated;
- Attitudes regarding the usefulness of the noise-producing activity;
- Receptor's belief that the noise source can be controlled.

Approximately ten percent of the population has a very low tolerance for noise and will object to any noise not of their making. Consequently, even in the quietest environment, some complaints will occur. Another twenty-five percent of the population will not complain even in very severe noise environments. Thus, a variety of reactions can be expected from people exposed to any given noise environment. (5) Surveys have shown that about ten percent of the

people exposed to traffic noise of 60 dBA will report being highly annoyed with the noise, and each increase of one dBA is associated with approximately two percent more people being highly annoyed. When traffic noise exceeds 60 dBA or aircraft noise exceeds 55 dBA, people may begin to complain. (5)

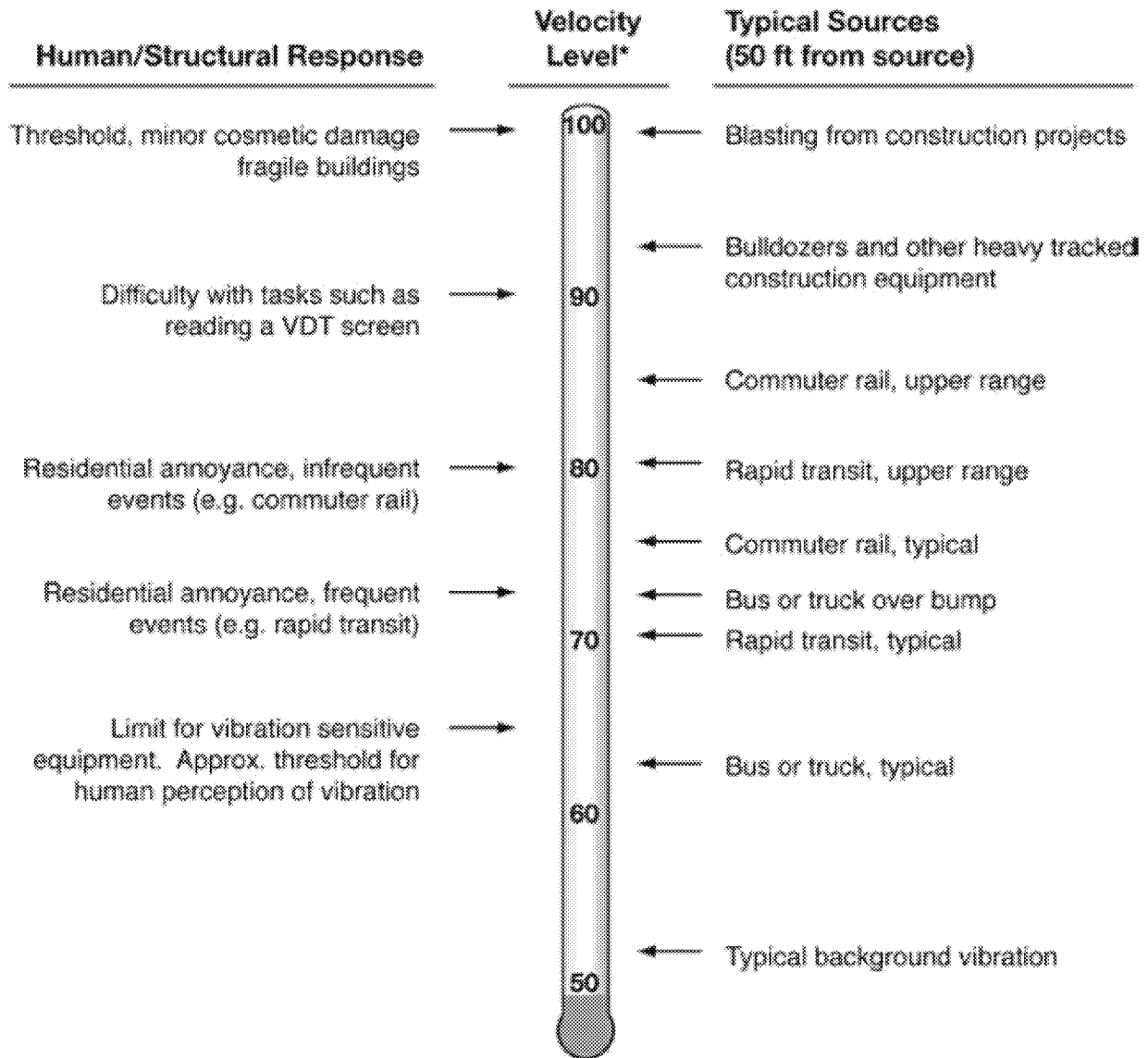
Despite this variability in behavior on an individual level, the population as a whole can be expected to exhibit the following responses to changes in noise levels. An increase or decrease of 1 dBA cannot be perceived except in carefully controlled laboratory experiments, a change of 3 dBA are considered *barely perceptible*, and changes of 5 dBA are considered *readily perceptible*. (3)

2.9 VIBRATION

According to the Federal Transit Administration (FTA) Transit Noise Impact and Vibration Assessment (6), vibration is the periodic oscillation of a medium or object. The rumbling sound caused by the vibration of room surfaces is called structure borne noise. Sources of ground-borne vibrations include natural phenomena (e.g., earthquakes, volcanic eruptions, sea waves, landslides) or human-made causes (e.g., explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous, such as factory machinery, or transient, such as explosions. As is the case with airborne sound, ground-borne vibrations may be described by amplitude and frequency. Vibration is often described in units of velocity (inches per second), and discussed in decibel (dB) units in order to compress the range of numbers required to describe vibration. Vibration impacts are generally associated with activities such as train operations, construction and heavy truck movements.

The background vibration-velocity level in residential areas is generally 50 VdB. Ground-borne vibration is normally perceptible to humans at approximately 65 VdB. For most people, a vibration-velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the ground-borne vibration is rarely perceptible. The range of interest is from approximately 50 VdB, which is the typical background vibration-velocity level, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings. Exhibit 2-B illustrates common vibration sources and the human and structural response to ground-borne vibration.

EXHIBIT 2-B: TYPICAL LEVELS OF GROUND-BORNE VIBRATION



* RMS Vibration Velocity Level in VdB relative to 10^{-6} inches/second

Source: Federal Transit Administration (FTA) Transit Noise Impact and Vibration Assessment

3 REGULATORY SETTING

To limit population exposure to physically and/or psychologically damaging as well as intrusive noise levels, the federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise. In most areas, automobile and truck traffic is the major source of environmental noise. Traffic activity generally produces an average sound level that remains fairly constant with time. Air and rail traffic, and commercial and industrial activities are also major sources of noise in some areas. Federal, state, and local agencies regulate different aspects of environmental noise. Federal and state agencies generally set noise standards for mobile sources such as aircraft and motor vehicles, while regulation of stationary sources is left to local agencies.

3.1 STATE OF CALIFORNIA NOISE REQUIREMENTS

The State of California regulates freeway noise, sets standards for sound transmission, provides occupational noise control criteria, identifies noise standards and provides guidance for local land use compatibility. State law requires that each county and city adopt a General Plan that includes a Noise Element which is to be prepared according to guidelines adopted by the Governor's Office of Planning and Research. (7) The purpose of the Noise Element is to *limit the exposure of the community to excessive noise levels*. In addition, the California Environmental Quality Act (CEQA) requires that all known environmental effects of a project be analyzed, including environmental noise impacts.

3.2 STATE OF CALIFORNIA BUILDING CODE

The State of California's noise insulation standards are codified in the California Code of Regulations, Title 24, Building Standards Administrative Code, Part 2, and the California Building Code. These noise standards are applied to new construction in California for the purpose of controlling interior noise levels resulting from exterior noise sources. The regulations specify that acoustical studies must be prepared when noise-sensitive structures, such as residential buildings, schools, or hospitals, are developed near major transportation noise sources, and where such noise sources create an exterior noise level of 60 dBA CNEL or higher. Acoustical studies that accompany building plans for noise-sensitive land uses must demonstrate that the structure has been designed to limit interior noise in habitable rooms to acceptable noise levels. For new residential buildings, schools, and hospitals, the acceptable interior noise limit for new construction is 45 dBA CNEL.

3.3 CITY OF MORENO VALLEY NOISE ELEMENT

The City Noise Element typically provides the standards for land use compatibility for community noise exposure. However, the City of Moreno Valley General Plan does not include a noise element or specific transportation related noise standards. Rather, noise is considered in the Environmental Safety section of the General Plan Safety Element included in Appendix 3.1. (8) While the General Plan provides background and noise fundamentals, it does not identify criteria to assess the impacts associated with off-site transportation related noise

impacts. Therefore, for the purpose of this analysis, the transportation noise criteria are derived from standards contained in the General Plan Guidelines, a publication of the California Office of Planning and Research. These land use / noise compatibility standards included on Figure 2 in Appendix 3.2 are used by many California cities and counties and specify the maximum noise levels allowable for new developments impacted by transportation noise sources

The purpose of the transportation noise criteria is to protect, create, and maintain an environment free from noise and vibration that may jeopardize the health or welfare of sensitive receptors, or degrade quality of life. City General Policies (City of Moreno Valley General Plan, pp.9-31, 9-32) act to ensure that when exterior noise levels exceed 65 dBA CNEL at sensitive receptors, mitigation is provided to ensure that interior noise levels of 45 dBA CNEL are maintained. General Plan Policies in this regard are consistent with, and support, the California Building Code interior noise standards.

3.4 CITY OF MORENO VALLEY MUNICIPAL CODE STANDARDS

The Project operational stationary/area source noise impacts are governed by the City of Moreno Valley Municipal Code, Title 11, Chapter 11, Regulation (Sections 11.80.010 through 11.80.060). These limits are used to describe the time-varying character of the stationary/area source operational noise levels and they do not compare with the 24-hour total sound exposure transportation related CNEL noise level limits.

3.4.1 OPERATIONAL STATIONARY/AREA SOURCE NOISE

The Noise Ordinance included in the City of Moreno Valley Municipal Code provides performance standards and noise control guidelines for determining and mitigating non-transportation or stationary/area noise source impacts from operations at private properties. The maximum allowable stationary/area-source noise levels are regulated pursuant to the City of Moreno Valley Municipal Code, Chapter 11.80 Noise Regulation (Sections 11.80.010 through 11.80.060). The City of Moreno Valley Noise Ordinance is included in Appendix 3.3.

To conform with applicable provisions of the Municipal Code, the maximum allowable noise generated by area/stationary sources when measured at 200 feet from any property line, shall not exceed 65dBA Leq during daytime hours (8:00 a.m. to 10:00 p.m. the same day); and shall not exceed 60 dBA Leq during nighttime hours (10:01 p.m. to 7:59 a.m. the following day).

3.4.2 CONSTRUCTION NOISE

As a subset of its stationary/area-source noise regulations, the City Municipal Code establishes additional restrictions on construction-source noise. More specifically, Municipal Code Section 11.80.030.D.7, *Construction and Demolitions*, provides the following limits to the hours of general construction equipment operations:

No person shall operate or cause operation of any tools or equipment used in construction, drilling, repair, alteration or demolition work between the hours of eight p.m. and seven a.m. the following day such that the sound there from creates a noise

disturbance, except for emergency work by public service utilities or for other work approved by the city manager or designee.

However, grading operations shall be limited to the hours identified in Section 8.21.050 (O) of 7:00 a.m. to 6:00 p.m., Monday through Friday, and 8:00 a.m. to 4:00 p.m. on weekends and holidays or as approved by the City Engineer. In addition to the hours of operations limitations provided in the Noise Ordinance, Section 11.80.030 (C.), *Non-impulsive Sound Decibel Limits* states the following:

No person shall maintain, create, operate or cause to be operated on private property any source of sound in such a manner as to create any non-impulsive sound which exceeds the limits set forth for the source land use category in Table 11.80.030-2 when measured at a distance of two hundred (200) feet or more from the real property line of the source of the sound, if the sound occurs on privately owned property, or from the source of the sound, if the sound occurs on public right-of-way, public space or other publicly owned property. Any source of sound in violation of this subsection shall be deemed prima facie to be a noise disturbance. (9)

Even though the City of Moreno Valley Municipal Code does not identify specific construction noise limits; it does provide noise level limits for the source land use category when measured at a distance of 200 feet. Since the source land use (commercial) is other than residential, 65 dBA Leq at a distance of 200 feet is used as the limit for this analysis to assess the construction noise level impacts. Therefore, to conform with applicable provisions of the Municipal Code, the maximum allowable noise generated by on-site construction activities when measured at 200 feet from any property line, shall not exceed 65dBA Leq. To ensure that Project construction activities do not adversely affect ambient noise conditions during the nighttime hour of 7:00 a.m. to 8:00 a.m., and to demonstrate compliance with provisions of Municipal Code Section 11.80.030.D.7, noise-generating Project construction activities shall be prohibited between the hours of 8:00 p.m. to 8:00 a.m. for general construction operations. Grading operations shall be prohibited between the hours of 6:00 p.m. to 8:00 a.m. on weekdays, and 4:00 p.m. to 8:00 a.m. on weekends and holidays.

3.5 VIBRATION STANDARDS

The United States Department of Transportation Federal Transit Administration (FTA) provides guidelines (6) for maximum-acceptable vibration criteria for different types of land uses. These guidelines allow 80 VdB for residential uses and buildings where people normally sleep.

Construction activity can result in varying degrees of ground-borne vibration, depending on the equipment and methods used, distance to the affected structures and soil type. Construction vibration is generally associated with pile driving and rock blasting. Other construction equipment such as air compressors, light trucks, hydraulic loaders, etc., generates little or no ground vibration. Occasionally large bulldozers and loaded trucks can cause perceptible vibration levels at close proximity. The FTA guidelines of 80 VdB for sensitive land uses provide the basis for determining the relative significance of potential Project related vibration impacts.

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4 THRESHOLDS OF SIGNIFICANCE

This section outlines the applicable thresholds of significance that were used to assess the potential project noise impacts.

4.1 STANDARDS OF SIGNIFICANCE

Based on the noise criteria presented in Section 3, and direction provided within the CEQA Guidelines as implemented by the City of Moreno Valley, Project noise impacts would be considered potentially significant if the Project is determined to result in or cause the following conditions:

- Exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project; or
- A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project.
- Exposure of persons to, or generation of, excessive groundborne vibration or groundborne noise levels.
- 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, expose people residing or working in the Project area to excessive noise levels.
- For a project within the vicinity of a private airstrip, expose people residing or working in the Project area to excessive noise levels.

4.2 NOISE IMPACT SIGNIFICANCE CRITERIA

Noise impact significance criteria germane to the Project are discussed below.¹

- Potential to expose persons to, or generate, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.

Project Stationary/Area-Source Noise Exceeding City Standards Would be Considered Potentially Significant. The City of Moreno Valley Municipal Code Chapter 11.80 Noise Regulation, Table 11.80.030-2 *Maximum Sound Levels for Source Land Uses* shown on Table 4-1 establishes the maximum acceptable noise levels that can be generated by stationary/area noise sources as received at off-site land uses.

¹ As substantiated in the EIR Initial Study, the Project's potential impacts under the following topics are determined to be less-than-significant, and are not further discussed in this Analysis:

- 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, expose people residing or working in the Project area to excessive noise levels.
- For a project within the vicinity of a private airstrip, expose people residing or working in the Project area to excessive noise levels.

TABLE 4-1: MAXIMUM SOUND LEVELS (IN DBA((A)) FOR SOURCE LAND USES

Residential		Commercial	
Daytime	Nighttime	Daytime	Nighttime
60	55	65	60

Source: City of Moreno Valley Municipal Code Chapter 11.80 Noise Regulation, Table 11.80.030-2

Notes: Nighttime: 10:01 p.m. to 7:59 a.m. the following day; Daytime: 8:00 a.m. to 10:00 p.m. the same day.

The City Municipal Code also establishes additional restrictions on construction-source noise. More specifically, Municipal Code Section 11.80.030.D.7, *Construction and Demolitions*, provides the following for general construction operations:

No person shall operate or cause operation of any tools or equipment used in construction, drilling, repair, alteration or demolition work between the hours of eight p.m. and seven a.m. the following day such that the sound there from creates a noise disturbance, except for emergency work by public service utilities or for other work approved by the city manager or designee.

Grading operations shall be prohibited between the hours of 6:00 p.m. to 8:00 a.m. on weekdays, and 4:00 p.m. to 8:00 a.m. on weekends and holidays based on Section 8.21.050.O of the Municipal Code.

Project Vehicular-Source Noise Exceeding City Standards Would be Considered Potentially Significant. City General Policies (City of Moreno Valley General Plan, pp.9-31, 9-32) establish parameters for vehicular source noise along City roadways. In this regard City General Plan Policies act to ensure that when exterior noise levels exceed 65 dBA CNEL at sensitive receptors mitigation is provided to ensure that interior noise levels of 45 dBA CNEL are maintained. Project vehicular-source noise that would cause or result in noise levels exceeding 65 dBA CNEL would potentially expose persons to noise levels in excess of standards established in the local general plan, and would therefore be potentially significant.

4.2.1 SIGNIFICANCE SUMMARY

Project stationary/area-source noise exceeding Municipal Code Noise Regulations identified at Table 11.80.030-2; or that would violate provisions of Municipal Code Section 11.80.030.D.7, *Construction and Demolitions* would potentially expose persons to, or generate, noise levels in excess of standards established in the local noise ordinance, and would therefore be potentially significant.

Additionally, Project vehicle-source noise that would result in exposure of land uses to noise levels greater than 65 dBA CNEL as established under City General Plan Policies, would potentially expose persons to, or generate, noise levels in excess of standards established in the local general plan, and would therefore be potentially significant.

- Potential to result in or cause a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project; or

- Potential to result in or cause a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project.

Perceptible Project Stationary/Area-Source Noise Exceeding Maximum Acceptable Ambient Conditions Would be Considered Substantial and Potentially Significant. For the purposes of this analysis, the City's *Maximum Sound Levels for Source Land Uses* (65 dBA daytime/60 dBA nighttime) is also defined as the maximum acceptable ambient condition when considering stationary/area-source noise impacts. In this regard, the maximum acceptable ambient noise conditions established in this analysis reflect local standards for acceptable noise conditions; correlate with Policies established in the City General Plan; and are consistent with applicable California Office of Planning and Research (OPR) Land Use/Noise Compatibility Guidelines. (7)

When ambient noise conditions are within acceptable parameters (65 dBA daytime/60 dBA nighttime) and perceptible (3.0 dBA or greater) Project stationary/area-source noise (whether temporary/periodic or permanent) would individually or in combination with ambient noise levels, exceed 65 dBA daytime/60 dBA nighttime, Project-source increases in ambient conditions could adversely affect area land uses, and land use/noise compatibility standards may not be maintained. Project stationary/area-source noise of 3.0 dBA or greater that would cause ambient conditions to exceed 65 dBA daytime/60 dBA nighttime would on this basis be considered substantial and potentially significant.

Perceptible Project Vehicular-Source Noise Exceeding Maximum Acceptable Ambient Conditions Would be Considered *Substantial* and Potentially Significant. Similarly, when considering vehicular-source noise, the City's 65 dBA CNEL standard reflected in the City General Plan is defined as the maximum acceptable ambient condition when considering vehicular-source noise impacts. When ambient noise conditions are within acceptable parameters (65 dBA CNEL) and perceptible (3.0 dBA or greater) Project vehicular-source noise would, individually or in combination with ambient conditions, exceed 65 dBA CNEL, Project-source increases in ambient conditions could adversely affect area land uses, and land/use noise compatibility standards may not be maintained. Project vehicular-source noise of 3.0 dBA or greater that would cause ambient conditions to exceed 65dBA CNEL would on this basis be considered *substantial* and potentially significant.

When Noise Levels Exceed Maximum Acceptable Ambient Conditions, Project Stationary/Area-Source Noise Increases of 1.5 dBA or Greater Would be Considered *Substantial* and Potentially Significant. If however, ambient conditions already exceed minimum acceptable standards, subsequent increases in noise levels may be considered substantial as they would contribute to already deficient conditions. Neither the City nor the State have established a quantified incremental increase in noise levels that could be considered *substantial* in instances where ambient conditions may already be considered unacceptable. Guidance in this regard is however, provided at the federal level through the

Federal Interagency Committee on Noise (FICON). (10) In this regard, FICON guidance facilitates assessment of project-generated increases in noise levels that take into account ambient noise conditions. Although the FICON guidance was specifically developed to assess aircraft noise impacts, this guidance is broadly relevant to all environmental noise assessments in determining perceived effects of noise. Germane to this analysis, the FICON guidance indicates that when ambient noise conditions are at or above normally acceptable standards, increases in noise of 1.5 dBA or greater would contribute to existing deficiencies, potentially resulting in increased community annoyance, citizen complaints, and potential litigation.

FICON guidance as applied within this analysis would indicate that when ambient conditions equal or exceed the City's maximum acceptable standards for stationary/area-sources (65 dBA daytime/60 dBA nighttime), Project stationary/area-source noise increases of 1.5 dBA or greater in ambient conditions could result in increased community annoyance, citizen complaints, and potential litigation. For the purposes of this analysis then, when ambient conditions equal or exceed maximum acceptable standards for stationary/area-sources, Project stationary/area-source noise increases of 1.5 dBA more in ambient conditions would therefore be considered *substantial*, and therefore potentially significant.

When Noise Levels Exceed Maximum Acceptable Ambient Conditions, Project Vehicular-Source Noise Increases of 1.5 dBA or Greater Would be Considered Substantial and Potentially Significant. Similarly, when ambient noise conditions are at or above the City's normally acceptable standards for vehicular sources (65 dBA CNEL), Project vehicular-source increases of 1.5 dBA or greater in ambient conditions would contribute to existing deficiencies, and could result in increased community annoyance, citizen complaints, and potential litigation. For the purposes of this analysis then, when ambient conditions equal or exceed maximum acceptable standards for vehicular sources, Project vehicular-source noise increase of 1.5 dBA more in ambient conditions would therefore be considered *substantial* and therefore potentially significant.

In summary a substantial temporary or permanent increase in ambient noise conditions would occur if Project-source noise would:

- Result in an perceptible increase in noise levels (3.0 dBA or greater) that would cause the maximum acceptable ambient condition (65 dBA daytime/60 dBA nighttime for stationary/area-sources; 65 dBA CNEL for vehicular sources) to be exceeded; or
- Result in an increase of 1.5 dBA in ambient conditions when the noise environment at receptor land uses already exceeds the maximum acceptable ambient noise condition (65 dBA daytime/60 dBA nighttime for stationary/area-sources; 65 dBA CNEL for vehicular sources).

4.3 VIBRATION IMPACT SIGNIFICANCE CRITERIA

The following vibration impact significance criteria are based on guidance provided by Appendix

G of the California Environmental Quality Act (CEQA) Guidelines.

- ***Potential to expose persons to, or generate, excessive groundborne vibration or groundborne noise levels.***

Received vibration levels exceeding the FTA maximum acceptable vibration standard of 80 vibration decibels (VdB) for sensitive land uses would be considered excessive, and therefore potentially significant.

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5 EXISTING NOISE LEVEL MEASUREMENTS

To assess the existing noise level environment, five long-term noise level measurements were taken at receptor locations in the Project study area. The noise level measurement locations were selected to describe and document the existing noise environment within the Project study area. Exhibit 5-A provides the boundaries of the Project study area and the noise level measurement locations. The noise level measurements were recorded by Urban Crossroads, Inc. on Wednesday, October 2, 2013 and Friday, October 4th, 2013. Appendix 5.1 includes study area photos.

5.1 MEASUREMENT PROCEDURE AND CRITERIA

To describe the existing noise environment, the hourly noise levels were measured during typical weekday conditions over a 24-hour period. By collecting individual hourly noise level measurements, it is possible to describe the daytime and nighttime hourly noise levels and calculate the 24-hour CNEL. The long-term noise readings were recorded using Piccolo Type 2 integrating sound level meter and dataloggers. The Piccolo sound level meters were calibrated using a Larson-Davis calibrator, Model CAL 150. All noise meters were programmed in "slow" mode to record noise levels in "A" weighted form. The sound level meters and microphones were equipped with a windscreen during all measurements. All noise level measurement equipment meets American National Standards Institute (ANSI) standard specifications for sound level meters ANSI S1.4-1983 (R2006)/ANSI S1.4a-1985 (R2006).(11)

5.2 NOISE MEASUREMENT LOCATIONS

The long-term noise level measurements were positioned at the nearest noise sensitive receptor locations to assess the existing ambient hourly noise levels surrounding the Project site. It is not necessary to collect measurements at each individual building or residence, because each receptor measurement represents a group of buildings that share acoustical equivalence. In other words, the area represented by the receptor shares similar shielding, terrain, and geometric relationship to the reference noise source. While receptors represent a location of noise sensitive areas, they also represent noise modeling locations used to estimate the future noise level impacts. Collecting reference ambient noise level measurements at the nearby sensitive receptor locations allows for a comparison of the before and after Project noise levels.

EXHIBIT 5-A: NOISE MEASUREMENT LOCATIONS



LEGEND:



LONG-TERM NOISE MEASUREMENT LOCATION

5.3 NOISE MEASUREMENT RESULTS

The results of the noise level measurements are presented in Table 5-1. Table 5-1 identifies the hourly daytime (8:00 a.m. to 10:00 p.m.) and nighttime (10:01 p.m. to 7:59 a.m.) noise levels at each noise level measurement location. Appendix 5.2 provides a summary of the existing hourly ambient noise levels described below:

- Located in front of the backyard wall of homes on Ninja Avenue, location LT-1 represents the off-site unmitigated exterior noise levels in front of the backyard wall at the southeast corner of the Project site. Based on the noise level measurements, the existing daytime hourly ambient noise levels ranged from 68.7 to 72.3 dBA Leq resulting in an energy (logarithmic) average daytime noise level of 70.2 dBA Leq. During the nighttime hours, the measured ambient noise levels ranged from 61.7 to 71.9 dBA Leq producing an energy (logarithmic) average nighttime noise level of 68.4 dBA Leq. The 24-hour noise level calculated at this location is 74.9 dBA CNEL which is considered *normally unacceptable* for single-family residential land use by the Land Use Compatibility criteria in the General Plan Guidelines.(7)
- Location LT-2 represents the adjacent residential homes located east of the Project site across Perris Boulevard on Wendy Way. The hourly noise levels measured at Location LT-2 ranged from 69.9 to 72.7 dBA Leq during the daytime hours and from 62.9 to 74.3 dBA Leq during the nighttime hours. The energy (logarithmic) average daytime noise level was calculated at 71.7 dBA Leq with an average nighttime noise level of 70.4 dBA Leq. A review of the 24-hour Community Noise Equivalent Level (CNEL) at this location indicates that the overall unmitigated exterior noise level is 77.0 dBA CNEL which is considered *normally acceptable* for residential land use by the Land Use Compatibility General Plan Guidelines (Figure 2). (7)
- Location LT-3 represents the area north of the Project site near the adjacent residential land use with a combination of fencing materials (wood and chain-link). At Location LT-3, the homes are located some distance from the traffic noise level impacts of Indian Street and Perris Boulevard. As a result, the background ambient noise levels ranged from 41.4 to 50.0 dBA Leq during the daytime hours to levels of 39.0 to 43.3 dBA Leq during the nighttime hours. The energy (logarithmic) average daytime noise level was calculated at 44.1 dBA Leq with an average nighttime noise level of 41.0 dBA Leq. A review of the 24-hour Community Noise Equivalent Level (CNEL) indicates that the overall unmitigated exterior noise level is 48.3 dBA CNEL which is considered *normally acceptable* for residential land use by the Land Use Compatibility General Plan Guidelines (Figure 2). (7)
- To represent the existing ambient noise levels near the March Middle School and the Rainbow Ridge Elementary School, noise level measurement location LT-4 was placed north of the baseball diamond. At this location, the 24-hour noise level was calculated at 49.2 dBA CNEL, which is considered *normally acceptable* by the General Plan Guidelines.(7) The existing daytime hourly noise levels were measured at 42.0 to 54.2 dBA Leq with the nighttime hours ranging from 37.6 to 47.4 dBA Leq. The energy (logarithmic) average daytime noise level was calculated at 46.7 dBA Leq with an average nighttime noise level of 41.9 dBA Leq.
- Located west of the project site in an existing residential community, location LT-5 represents the off-site noise levels west of the project site across Indian Street. Based on the noise level measurements, the existing daytime hourly ambient noise levels ranged from 65.4 to 74.2 dBA Leq resulting in an energy (logarithmic) average daytime noise level of 69.0 dBA Leq. During the nighttime hours, the measured ambient noise levels ranged from 58.2 to 73.6 dBA Leq

producing an energy (logarithmic) average nighttime noise level of 66.7 dBA Leq. A review of the 24-hour Community Noise Equivalent Level (CNEL) indicates that the overall unmitigated exterior noise level is 72.4 dBA CNEL which is considered *normally unacceptable* for residential land use by the Land Use Compatibility General Plan Guidelines (Figure 2). However, with the existing six-foot high masonry perimeter sound wall and typical noise insulation features with standard building construction, the residential homes located across Indian Street are likely considered *conditionally acceptable*.

TABLE 5-1: LONG-TERM AMBIENT NOISE LEVEL MEASUREMENTS

Location ¹	Date	Description	Hourly Noise Level (Leq dBA) ²		CNEL
			Daytime (7am to 10pm)	Nighttime (10pm to 7am)	
LT-1	10/2/2013	Located east of the Project site in front of the backyard wall of homes located on Ninya Avenue.	70.2	68.4	74.9
LT-2	10/4/2013	Located east of the Project site in front of the backyard wall of homes located on Wendy Way.	71.7	70.4	77.0
LT-3	10/2/2013	Located north of the Project site in front of the backyard wall of homes located on Fay Avenue.	44.1	41.0	48.3
LT-4	10/2/2013	Located west of the Project site north of the baseball diamond at the March Middle School.	46.7	41.9	49.2
LT-5	10/4/2013	Located west of the Project site and Indian Street in front of the backyard of homes on Electra Court.	69.0	66.7	72.4

¹ See Exhibit 5-A for the location of the monitoring sites.

² Energy (logarithmic) average hourly levels. The long-term measurements printouts are included in Appendix 5.2.

6 METHODS AND PROCEDURES

The following section outlines the methods and procedures used to model and analyze the future traffic noise environment.

6.1 FHWA TRAFFIC NOISE PREDICTION MODEL

The estimated roadway noise impacts from vehicular traffic were calculated using a computer program that replicates the Federal Highway Administration (FHWA) Traffic Noise Prediction Model- FHWA-RD-77-108.(12) The FHWA Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). In California the national REMELs are substituted with the California Vehicle Noise (Calveno) Emission Levels.(13) Adjustments are then made to the REMEL to account for: the roadway classification (e.g., collector, secondary, major or arterial), the roadway active width (i.e., the distance between the center of the outermost travel lanes on each side of the roadway), the total average daily traffic (ADT), the travel speed, the percentages of automobiles, medium trucks, and heavy trucks in the traffic volume, the roadway grade, the angle of view (e.g., whether the roadway view is blocked), the site conditions ("hard" or "soft" relates to the absorption of the ground, pavement, or landscaping), and the percentage of total ADT which flows each hour throughout a 24-hour period.

6.2 TRAFFIC NOISE PREDICTION MODEL INPUTS

Table 6-1 presents the roadway parameters used to assess the Project's off-site transportation noise impacts. Table 6-1 identifies the 105 study area roadway segments, the functional roadway classifications according to the General Plan Circulation Element, the number of lanes and the vehicle speeds. For the purpose of this analysis, soft site conditions were used to analyze the traffic noise impacts for the Project study area. Soft site conditions account for the sound propagation loss over natural surfaces such as normal earth and ground vegetation.

The Existing, Year 2018, and Year 2035 average daily traffic volumes used for this study are presented in Table 6-2 and were provided by the *Moreno Valley Walmart Traffic Impact Analysis* prepared by Urban Crossroads, Inc. (14) Table 6-3 presents the time of day vehicle splits and Table 6-4 presents the traffic flow distributions (vehicle mix) used for this analysis. The vehicle mix provides the hourly distribution percentages of automobile, medium trucks and heavy trucks for input into the FHWA noise prediction model.

TABLE 6-1: OFF-SITE ROADWAY PARAMETERS

ID	Roadway	Segment	Roadway Section	Vehicle Speed (MPH)
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	4D	55
2	Eucalyptus Avenue	East of Perris Boulevard	2U	40
3	Cottonwood Avenue	West of Indian Street	2D	45
4	Cottonwood Avenue	East of Indian Street	2D	45
5	Cottonwood Avenue	West of Perris Boulevard	2D	45
6	Cottonwood Avenue	East of Perris Boulevard	2U	40
7	Alessandro Boulevard	West of Heacock Street	5D	55
8	Alessandro Boulevard	East of Heacock Street	6D	55
9	Alessandro Boulevard	West of Indian Street	6D	55
10	Alessandro Boulevard	East of Indian Street	6D	55
11	Alessandro Boulevard	West of Perris Boulevard	6D	55
12	Alessandro Boulevard	East of Perris Boulevard	4D	55
13	Cactus Avenue	West of I-215 Freeway	4D	55
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	4D	55
15	Cactus Avenue	East of I-215 NB Ramps	4D	55
16	Cactus Avenue	West of Elsworth Street	4D	55
17	Cactus Avenue	East of Elsworth Street	5D	55
18	Cactus Avenue	West of Frederick Street	5D	55
19	Cactus Avenue	East of Frederick Street	5D	55
20	Cactus Avenue	West of Graham Street	5D	55
21	Cactus Avenue	East of Graham Street	5D	55
22	Cactus Avenue	West of Heacock Street	5D	55
23	Cactus Avenue	East of Heacock Street	4D	55
24	Cactus Avenue	West of Indian Street	4D	55
25	Cactus Avenue	East of Indian Street	4D	55
26	Cactus Avenue	West of Perris Boulevard	4D	55
27	Cactus Avenue	East of Perris Boulevard	4D	55
28	Cactus Avenue	East of Kitching Street	4D	55
29	John F. Kennedy Drive	West of Heacock Street	4D	55
30	John F. Kennedy Drive	East of Heacock Street	3D	55
31	John F. Kennedy Drive	West of Indian Street	4D	55
32	John F. Kennedy Drive	East of Indian Street	4D	55
33	John F. Kennedy Drive	West of Perris Boulevard	4D	55
34	John F. Kennedy Drive	East of Perris Boulevard	4D	55
35	John F. Kennedy Drive	West of Kitching Street	4D	55
36	John F. Kennedy Drive	East of Kitching Street	4D	55
37	Gentian Avenue	West of Indian Street	4U	45
38	Gentian Avenue	East of Perris Boulevard	2U	40

ID	Roadway	Segment	Roadway Section	Vehicle Speed (MPH)
39	Santiago Drive	East of Perris Boulevard	2U	40
40	Iris Avenue	West of Indian Street	2U	40
41	Iris Avenue	East of Indian Street	3D	55
42	Iris Avenue	West of Perris Boulevard	4D	55
43	Iris Avenue	East of Perris Boulevard	4D	55
44	Iris Avenue	West of Kitching Street	4D	55
45	Iris Avenue	East of Kitching Street	6D	55
46	Iris Avenue	West of Lasselle Street	6D	55
47	Iris Avenue	East of Lasselle Street	6D	55
48	Krameria Avenue	East of Indian Street	2D	45
49	Krameria Avenue	West of Perris Boulevard	2U	40
50	Krameria Avenue	East of Perris Boulevard	4D	55
51	Harley Knox Boulevard	West of Webster Avenue	2D	45
52	Harley Knox Boulevard	East of Webster Avenue	2D	45
53	Harley Knox Boulevard	West of Indian Street	3D	55
54	Harley Knox Boulevard	East of Indian Street	3D	55
55	Harley Knox Boulevard	West of Perris Boulevard	2D	45
56	Ramona Expressway	West of Perris Boulevard	6D	55
57	Ramona Expressway	East of Perris Boulevard	6D	55
58	Frederick Street	North of Cactus Avenue	4D	55
59	Heacock Street	North of Alessandro Boulevard	4D	55
60	Heacock Street	North of Cactus Avenue	4D	55
61	Indian Street	North of Cottonwood Avenue	2U	40
62	Indian Street	North of Alessandro Boulevard	3D	55
63	Indian Street	North of Cactus Avenue	4D	55
64	Indian Street	South of John F. Kennedy Drive	4D	55
65	Indian Street	North of Gentian Avenue	2U	40
66	Indian Street	South of Iris Avenue	2U	40
67	Indian Street	North of Krameria Avenue	2U	40
68	Indian Street	South of Krameria Avenue	2U	40
69	Indian Street	South of Harley Knox Boulevard	4D	55
70	Perris Boulevard	North of SR-60 WB Ramps	6D	55
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Boulevard	7D	55
72	Perris Boulevard	South of Sunnymead Boulevard	4D	55
73	Perris Boulevard	North of Eucalyptus Avenue	4D	55
74	Perris Boulevard	South of Eucalyptus Avenue	4D	55
75	Perris Boulevard	North of Cottonwood Avenue	4D	55
76	Perris Boulevard	South of Cottonwood Avenue	4D	55
77	Perris Boulevard	North of Alessandro Boulevard	4D	55

ID	Roadway	Segment	Roadway Section	Vehicle Speed (MPH)
78	Perris Boulevard	South of Alessandro Boulevard	4D	55
79	Perris Boulevard	North of Cactus Avenue	4D	55
80	Perris Boulevard	South of Cactus Avenue	6D	55
81	Perris Boulevard	North of John F. Kennedy Drive	6D	55
82	Perris Boulevard	South of John F. Kennedy Drive	6D	55
83	Perris Boulevard	North of Gentian Avenue	6D	55
84	Perris Boulevard	Gentian Avenue to Driveway 3	6D	55
85	Perris Boulevard	Driveway 3 to Driveway 4	6D	55
86	Perris Boulevard	Driveway 4 to Santiago Drive	6D	55
87	Perris Boulevard	Santiago Drive to Iris Avenue	6D	55
88	Perris Boulevard	South of Iris Avenue	6D	55
89	Perris Boulevard	North of Krameria Avenue	6D	55
90	Perris Boulevard	South of Krameria Avenue	6D	55
91	Perris Boulevard	North of San Michele Road	6D	55
92	Perris Boulevard	San Michele Road to Nandina Avenue	6D	55
93	Perris Boulevard	South of Nandina Avenue	6D	55
94	Perris Boulevard	North of Harley Knox Boulevard	2D	45
95	Perris Boulevard	South of Harley Knox Boulevard	2D	45
96	Perris Boulevard	North of Ramona Expressway	3D	55
97	Perris Boulevard	South of Ramona Expressway	5D	55
98	Kitching Street	North of Cactus Avenue	4D	55
99	Kitching Street	South of Cactus Avenue	2U	40
100	Kitching Street	North of John F. Kennedy Drive	2U	40
101	Kitching Street	South of John F. Kennedy Drive	2U	40
102	Kitching Street	North of Iris Avenue	4D	55
103	Kitching Street	South of Iris Avenue	4U	45
104	Lasselle Street	North of Iris Avenue	4D	55
105	Lasselle Street	South of Iris Avenue	4D	55

TABLE 6-2: AVERAGE DAILY TRAFFIC VOLUMES

ID	Roadway	Segment	Average Daily Traffic					
			Existing		Year 2018		Year 2035	
			No Project	With Project	No Project	With Project	No Project	With Project
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	17,160	17,256	21,348	21,444	29,000	29,096
2	Eucalyptus Avenue	East of Perris Boulevard	6,876	7,068	8,222	8,414	15,000	15,096
3	Cottonwood Avenue	West of Indian Street	9,720	9,912	10,878	11,070	15,760	15,952
4	Cottonwood Avenue	East of Indian Street	7,836	8,220	8,814	9,198	13,049	13,145
5	Cottonwood Avenue	West of Perris Boulevard	6,708	7,286	8,608	9,186	20,000	20,096
6	Cottonwood Avenue	East of Perris Boulevard	7,668	7,956	9,332	9,620	18,000	18,192
7	Alessandro Boulevard	West of Heacock Street	27,312	27,697	31,940	32,325	54,000	54,384
8	Alessandro Boulevard	East of Heacock Street	26,004	26,677	29,918	30,591	48,000	48,192
9	Alessandro Boulevard	West of Indian Street	23,424	24,098	27,333	28,007	46,000	46,192
10	Alessandro Boulevard	East of Indian Street	22,836	23,606	26,382	27,152	43,000	43,096
11	Alessandro Boulevard	West of Perris Boulevard	21,960	22,826	25,596	26,462	43,000	43,096
12	Alessandro Boulevard	East of Perris Boulevard	18,000	18,288	22,289	22,577	46,000	46,096
13	Cactus Avenue	West of I-215 Freeway	12,576	12,672	27,804	27,900	41,904	42,000
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	22,548	22,740	42,604	42,796	46,904	47,000
15	Cactus Avenue	East of I-215 NB Ramps	34,644	34,932	50,212	50,500	65,412	65,700
16	Cactus Avenue	West of Elsworth Street	34,092	34,380	57,312	57,600	63,112	63,400
17	Cactus Avenue	East of Elsworth Street	30,420	30,708	53,212	53,500	58,162	58,450
18	Cactus Avenue	West of Frederick Street	29,508	29,796	54,812	55,100	60,293	60,581
19	Cactus Avenue	East of Frederick Street	32,544	33,024	55,620	56,100	62,358	62,838
20	Cactus Avenue	West of Graham Street	31,536	32,018	53,718	54,200	59,090	59,572
21	Cactus Avenue	East of Graham Street	26,232	26,714	42,418	42,900	54,660	55,142
22	Cactus Avenue	West of Heacock Street	26,112	26,594	38,371	38,853	50,288	50,768
23	Cactus Avenue	East of Heacock Street	15,936	16,514	28,027	28,605	42,979	43,555
24	Cactus Avenue	West of Indian Street	15,468	16,046	25,148	25,726	38,986	39,564
25	Cactus Avenue	East of Indian Street	16,392	17,162	22,999	23,769	39,331	39,331
26	Cactus Avenue	West of Perris Boulevard	14,064	14,834	20,522	21,292	37,000	37,000
27	Cactus Avenue	East of Perris Boulevard	13,776	14,064	19,696	19,984	32,000	32,096
28	Cactus Avenue	East of Kitching Street	10,956	11,244	15,229	15,517	24,829	25,117
29	John F. Kennedy Drive	West of Heacock Street	8,040	8,136	9,414	9,510	16,000	16,096
30	John F. Kennedy Drive	East of Heacock Street	10,044	10,140	11,089	11,185	15,066	15,451
31	John F. Kennedy Drive	West of Indian Street	9,036	9,228	10,830	11,022	19,562	20,044
32	John F. Kennedy Drive	East of Indian Street	9,108	9,492	11,036	11,420	21,104	21,200
33	John F. Kennedy Drive	West of Perris Boulevard	9,048	9,530	11,481	11,963	25,800	25,800
34	John F. Kennedy Drive	East of Perris Boulevard	9,144	10,106	12,099	13,061	30,100	31,352
35	John F. Kennedy Drive	West of Kitching Street	8,280	9,242	11,096	12,058	28,872	30,026

ID	Roadway	Segment	Average Daily Traffic					
			Existing		Year 2018		Year 2035	
			No Project	With Project	No Project	With Project	No Project	With Project
36	John F. Kennedy Drive	East of Kitching Street	5,796	6,084	8,210	8,498	26,536	26,824
37	Gentian Avenue	West of Indian Street	1,584	1,680	1,870	1,966	3,000	3,288
38	Gentian Avenue	East of Perris Boulevard	1,968	2,160	2,675	2,867	7,500	7,596
39	Santiago Drive	East of Perris Boulevard	2,460	2,652	3,140	3,332	7,006	7,198
40	Iris Avenue	West of Indian Street	9,840	10,032	10,997	11,189	15,951	15,951
41	Iris Avenue	East of Indian Street	12,504	12,888	13,988	14,372	20,480	20,576
42	Iris Avenue	West of Perris Boulevard	11,988	12,566	14,392	14,970	26,600	26,792
43	Iris Avenue	East of Perris Boulevard	15,264	16,612	17,459	18,807	26,319	27,571
44	Iris Avenue	West of Kitching Street	18,480	19,634	20,967	22,121	31,148	32,206
45	Iris Avenue	East of Kitching Street	18,300	19,262	22,059	23,021	40,764	41,630
46	Iris Avenue	West of Lassel Street	16,524	17,293	19,988	20,757	37,500	38,173
47	Iris Avenue	East of Lassel Street	19,404	19,789	23,298	23,683	43,000	43,385
48	Krameria Avenue	East of Indian Street	2,640	2,736	3,406	3,502	8,000	8,096
49	Krameria Avenue	West of Perris Boulevard	3,300	3,396	4,482	4,578	12,593	12,689
50	Krameria Avenue	East of Perris Boulevard	7,560	7,752	9,042	9,234	16,429	16,621
51	Harley Knox Boulevard	West of Webster Avenue	9,300	9,588	32,903	33,191	39,000	39,288
52	Harley Knox Boulevard	East of Webster Avenue	9,300	9,876	32,925	33,501	39,000	39,576
53	Harley Knox Boulevard	West of Indian Street	9,552	10,130	31,100	31,678	36,410	36,988
54	Harley Knox Boulevard	East of Indian Street	5,388	6,062	12,600	13,274	34,500	34,694
55	Harley Knox Boulevard	West of Perris Boulevard	4,584	5,258	12,600	13,274	29,500	29,694
56	Ramona Expressway	West of Perris Boulevard	28,620	28,812	37,300	37,492	43,400	43,496
57	Ramona Expressway	East of Perris Boulevard	25,080	25,465	34,500	34,885	45,100	45,485
58	Frederick Street	North of Cactus Avenue	5,772	5,964	11,508	11,700	12,659	12,851
59	Heacock Street	North of Alessandro Boulevard	15,336	15,480	16,932	17,220	18,403	18,691
60	Heacock Street	North of Cactus Avenue	11,196	11,292	12,561	12,657	18,000	18,576
61	Indian Street	North of Cottonwood Avenue	7,716	7,908	8,651	8,843	12,570	12,762
62	Indian Street	North of Alessandro Boulevard	10,680	10,776	11,651	11,747	15,087	15,665
63	Indian Street	North of Cactus Avenue	10,992	11,184	12,424	12,616	17,785	18,843
64	Indian Street	South of John F. Kennedy Drive	8,016	8,208	9,156	9,348	12,178	14,392
65	Indian Street	North of Gentian Avenue	5,964	6,060	7,176	7,272	11,244	13,458
66	Indian Street	South of Iris Avenue	4,260	4,452	5,194	5,386	9,425	10,194
67	Indian Street	North of Krameria Avenue	4,392	4,584	5,656	5,848	12,600	13,368
68	Indian Street	South of Krameria Avenue	2,040	2,136	3,382	3,478	18,200	18,872
69	Indian Street	South of Harley Knox Boulevard	4,344	4,440	7,700	7,796	29,500	29,596
70	Perris Boulevard	North of SR-60 WB Ramps	30,480	30,672	34,739	34,931	54,000	54,192
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Boulevard	33,072	33,360	38,972	39,260	42,000	42,288
72	Perris Boulevard	South of Sunnymead Boulevard	24,324	24,708	28,304	28,688	47,000	47,384

ID	Roadway	Segment	Average Daily Traffic					
			Existing		Year 2018		Year 2035	
			No Project	With Project	No Project	With Project	No Project	With Project
73	Perris Boulevard	North of Eucalyptus Avenue	20,160	20,545	24,363	24,748	46,000	46,385
74	Perris Boulevard	South of Eucalyptus Avenue	18,168	18,745	23,121	23,698	52,000	52,481
75	Perris Boulevard	North of Cottonwood Avenue	22,800	23,474	27,326	28,000	50,000	50,578
76	Perris Boulevard	South of Cottonwood Avenue	20,280	21,820	24,413	25,953	45,000	45,866
77	Perris Boulevard	North of Alessandro Boulevard	18,036	19,576	22,515	24,055	47,000	47,866
78	Perris Boulevard	South of Alessandro Boulevard	18,252	20,946	22,744	25,438	47,000	48,058
79	Perris Boulevard	North of Cactus Avenue	16,968	19,759	21,088	23,879	43,000	44,155
80	Perris Boulevard	South of Cactus Avenue	17,568	21,417	22,206	26,055	48,000	49,251
81	Perris Boulevard	North of John F. Kennedy Drive	15,312	19,162	19,704	23,554	45,000	46,444
82	Perris Boulevard	South of John F. Kennedy Drive	18,720	24,014	23,886	29,180	52,000	54,696
83	Perris Boulevard	North of Gentian Avenue	16,056	21,350	20,952	26,246	49,000	51,792
84	Perris Boulevard	Gentian Avenue to Driveway 3	16,008	21,014	20,799	25,805	47,000	50,658
85	Perris Boulevard	Driveway 3 to Driveway 4	16,008	19,666	20,727	24,385	47,000	49,887
86	Perris Boulevard	Driveway 4 to Santiago Drive	16,008	19,425	20,727	24,144	47,000	49,888
87	Perris Boulevard	Santiago Drive to Iris Avenue	15,240	19,188	20,255	24,201	50,297	53,281
88	Perris Boulevard	South of Iris Avenue	16,044	18,066	20,634	22,656	47,000	48,541
89	Perris Boulevard	North of Krameria Avenue	14,664	16,684	19,513	21,533	50,000	51,540
90	Perris Boulevard	South of Krameria Avenue	15,540	17,272	20,382	22,114	50,000	51,541
91	Perris Boulevard	North of San Michele Road	16,776	18,316	21,605	23,145	50,000	51,060
92	Perris Boulevard	San Michele Road to Nandina Avenue	15,888	17,428	21,152	22,692	55,000	55,964
93	Perris Boulevard	South of Nandina Avenue	15,828	17,368	26,908	28,448	53,000	53,868
94	Perris Boulevard	North of Harley Knox Boulevard	16,524	18,064	30,600	32,140	53,000	53,868
95	Perris Boulevard	South of Harley Knox Boulevard	15,156	16,022	26,100	26,966	41,000	41,674
96	Perris Boulevard	North of Ramona Expressway	13,572	14,437	24,300	25,165	40,000	40,673
97	Perris Boulevard	South of Ramona Expressway	14,280	14,568	25,500	25,788	31,000	31,192
98	Kitching Street	North of Cactus Avenue	6,276	6,468	7,915	8,107	17,130	17,418
99	Kitching Street	South of Cactus Avenue	7,668	8,148	9,287	9,767	17,235	17,811
100	Kitching Street	North of John F. Kennedy Drive	6,912	7,394	8,821	9,303	19,543	20,217
101	Kitching Street	South of John F. Kennedy Drive	8,340	8,532	9,968	10,160	18,085	18,277
102	Kitching Street	North of Iris Avenue	5,904	6,000	7,405	7,501	15,903	15,999
103	Kitching Street	South of Iris Avenue	7,068	7,164	9,231	9,327	22,790	22,886
104	Lasselle Street	North of Iris Avenue	18,276	18,468	20,373	20,565	29,380	29,476
105	Lasselle Street	South of Iris Avenue	26,292	26,484	28,129	28,321	35,200	35,392

TABLE 6-3: TIME OF DAY VEHICLE SPLITS

Time Period	Vehicle Type		
	Autos	Medium Trucks	Heavy Trucks
Daytime (7am-7pm)	77.5%	84.8%	86.5%
Evening (7pm-10pm)	12.9%	4.9%	2.7%
Nighttime (10pm-7am)	9.6%	10.3%	10.8%
Total:	100.0%	100.0%	100.0%

Source: County of Riverside Office of Industrial Hygiene.

TABLE 6-4: DISTRIBUTION OF TRAFFIC FLOW BY VEHICLE TYPE (VEHICLE MIX)

Total % Traffic Flow			Total
Autos	Medium Trucks	Heavy Trucks	
97.42%	1.84%	0.74%	100%

Source: County of Riverside Office of Industrial Hygiene.

6.3 VIBRATION ASSESSMENT

This analysis focuses on the potential ground-borne vibration associated with vehicular traffic and construction activities. Ground-borne vibration levels from automobile traffic are generally overshadowed by vibration generated by heavy trucks that roll over the same uneven roadway surfaces. However, due to the rapid drop-off rate of ground-borne vibration and the short duration of the associated events, vehicular traffic-induced ground-borne vibration is rarely perceptible beyond the roadway right-of-way, and rarely results in vibration levels that cause damage to buildings in the vicinity.

However, while vehicular traffic is rarely perceptible, construction has the potential to result in varying degrees of temporary ground vibration, depending on the specific construction activities and equipment used. Ground vibration levels associated with various types of construction equipment are summarized on Table 6-5. Based on the representative vibration levels presented for various construction equipment types, it is possible to estimate the human response (annoyance) using the following vibration assessment methods defined by the FTA. To describe the human response (annoyance) associated with vibration impacts the FTA provides the following equation: $L_{VdB}(D) = L_{VdB}(25 \text{ ft}) - 30\log(D/25)$

TABLE 6-5: VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

Equipment	Vibration Decibels (VdB) at 25 feet¹
Small bulldozer	58
Jackhammer	79
Loaded Trucks	86
Large bulldozer	87

¹ Source::Federal Transit Administration, Transit Noise and Vibration Impact Assessment, May 2006.

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7 OFF-SITE TRANSPORTATION NOISE IMPACTS

To assess the off-site transportation CNEL noise level impacts associated with development of the proposed Project, noise contours were developed based on the *Moreno Valley Walmart Traffic Impact Analysis*.⁽¹⁴⁾ Noise contour boundaries represent the equal levels of noise exposure and are measured in CNEL from the center of the roadway. Noise contours were developed for the following traffic scenarios:

- Existing Without / With Project: This scenario refers to the existing present-day noise conditions, without the Project and with the construction of the proposed Project.
- Year (2018) Without / With Project: This scenario refers to the background noise conditions at future Year 2018 with and without the proposed Project. This scenario corresponds to 2018 conditions, and includes all cumulative projects identified in the Traffic Impact Analysis.
- Year (2035) Without / With Project: This scenario refers to the background noise conditions at future Year 2035 with and without the proposed Project. This scenario corresponds to 2035 conditions, and includes all cumulative projects identified in the Traffic Impact Analysis.

7.1 OFF-SITE TRAFFIC NOISE CONTOURS

To quantify the Project's traffic noise impacts on the surrounding areas, the changes in traffic noise levels on 105 roadway segments surrounding the Project were calculated based on the changes in the average daily traffic volumes. The noise contours were used to assess the Project's incremental traffic-related noise impacts at land uses adjacent to roadways conveying Project traffic. Based on the noise impact significance criteria described in Section 4.2, a substantial temporary or permanent increase in ambient noise conditions would occur if Project-source noise would:

- Result in an perceptible increase in noise levels (3.0 dBA or greater) that would cause the maximum acceptable ambient condition (65 dBA daytime/60 dBA nighttime for stationary/area-sources; 65 dBA CNEL for vehicular sources) to be exceeded; or
- Result in an increase of 1.5 dBA in ambient conditions when the noise environment at receptor land uses already exceeds the maximum acceptable ambient noise condition (65 dBA daytime/60 dBA nighttime for stationary/area-sources; 65 dBA CNEL for vehicular sources).

Noise contours represent the distance to noise levels of a constant value and are measured from the center of the roadway for the 70, 65, 60 and 55 dBA noise levels. The noise contours do not take into account the effect of any existing noise barriers or topography that may affect ambient noise levels. In addition, since the noise contours reflect modeling of vehicular noise along area roadways, they appropriately do not reflect noise contribution from the surrounding commercial and industrial uses within the Project study area. Tables 7-1 through 7-6 presents a summary of the unmitigated exterior traffic noise levels for the 105 study area roadway segments analyzed from the without Project to the with Project conditions in each of three timeframes: Existing; Year 2018 and Year 2035 conditions. Appendix 7.1 includes a summary of the traffic noise level contours for each of the six traffic scenarios.

TABLE 7-1: EXISTING WITHOUT PROJECT CONDITIONS NOISE CONTOURS

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	66.6	59	128	275	593
2	Eucalyptus Avenue	East of Perris Boulevard	59.1	RW	RW	87	187
3	Cottonwood Avenue	West of Indian Street	61.9	RW	62	133	287
4	Cottonwood Avenue	East of Indian Street	60.9	RW	RW	115	249
5	Cottonwood Avenue	West of Perris Boulevard	60.3	RW	RW	104	224
6	Cottonwood Avenue	East of Perris Boulevard	59.5	RW	RW	93	201
7	Alessandro Boulevard	West of Heacock Street	69.4	91	197	424	913
8	Alessandro Boulevard	East of Heacock Street	69.2	88	190	410	883
9	Alessandro Boulevard	West of Indian Street	68.7	82	177	382	824
10	Alessandro Boulevard	East of Indian Street	68.6	81	175	376	810
11	Alessandro Boulevard	West of Perris Boulevard	68.5	79	170	366	789
12	Alessandro Boulevard	East of Perris Boulevard	66.8	61	132	284	613
13	Cactus Avenue	West of I-215 Freeway	65.3	RW	104	224	482
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	67.8	71	153	330	712
15	Cactus Avenue	East of I-215 NB Ramps	69.7	95	204	440	948
16	Cactus Avenue	West of Elsworth Street	69.6	94	202	435	938
17	Cactus Avenue	East of Elsworth Street	69.9	98	211	455	981
18	Cactus Avenue	West of Frederick Street	69.7	96	207	446	961
19	Cactus Avenue	East of Frederick Street	70.2	103	221	476	1,026
20	Cactus Avenue	West of Graham Street	70.0	100	216	466	1,005
21	Cactus Avenue	East of Graham Street	69.2	89	191	412	888
22	Cactus Avenue	West of Heacock Street	69.2	89	191	411	886
23	Cactus Avenue	East of Heacock Street	66.3	56	122	262	565
24	Cactus Avenue	West of Indian Street	66.2	55	119	257	554
25	Cactus Avenue	East of Indian Street	66.4	58	124	267	576
26	Cactus Avenue	West of Perris Boulevard	65.7	RW	112	241	520
27	Cactus Avenue	East of Perris Boulevard	65.6	RW	110	238	513
28	Cactus Avenue	East of Kitching Street	64.7	RW	95	204	440
29	John F. Kennedy Drive	West of Heacock Street	63.3	RW	77	166	358
30	John F. Kennedy Drive	East of Heacock Street	64.3	RW	89	193	415
31	John F. Kennedy Drive	West of Indian Street	63.8	RW	83	180	387
32	John F. Kennedy Drive	East of Indian Street	63.9	RW	84	181	389
33	John F. Kennedy Drive	West of Perris Boulevard	63.8	RW	83	180	387
34	John F. Kennedy Drive	East of Perris Boulevard	63.9	RW	84	181	390
35	John F. Kennedy Drive	West of Kitching Street	63.4	RW	79	169	365
36	John F. Kennedy Drive	East of Kitching Street	61.9	RW	62	134	288

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
37	Gentian Avenue	West of Indian Street	54.1	RW	RW	RW	86
38	Gentian Avenue	East of Perris Boulevard	53.6	RW	RW	RW	81
39	Santiago Drive	East of Perris Boulevard	54.6	RW	RW	RW	94
40	Iris Avenue	West of Indian Street	60.6	RW	RW	110	237
41	Iris Avenue	East of Indian Street	65.2	RW	104	223	481
42	Iris Avenue	West of Perris Boulevard	65.0	RW	101	217	467
43	Iris Avenue	East of Perris Boulevard	66.1	55	118	255	549
44	Iris Avenue	West of Kitching Street	66.9	62	134	289	624
45	Iris Avenue	East of Kitching Street	67.7	70	151	324	699
46	Iris Avenue	West of Lasselle Street	67.2	65	141	303	653
47	Iris Avenue	East of Lasselle Street	67.9	73	157	337	727
48	Krameria Avenue	East of Indian Street	56.2	RW	RW	56	120
49	Krameria Avenue	West of Perris Boulevard	55.9	RW	RW	RW	114
50	Krameria Avenue	East of Perris Boulevard	63.0	RW	74	159	344
51	Harley Knox Boulevard	West of Webster Avenue	61.7	RW	60	129	279
52	Harley Knox Boulevard	East of Webster Avenue	61.7	RW	60	129	279
53	Harley Knox Boulevard	West of Indian Street	64.1	RW	87	186	402
54	Harley Knox Boulevard	East of Indian Street	61.6	RW	59	127	274
55	Harley Knox Boulevard	West of Perris Boulevard	58.6	RW	RW	81	174
56	Ramona Expressway	West of Perris Boulevard	69.6	94	203	437	942
57	Ramona Expressway	East of Perris Boulevard	69.0	86	186	400	862
58	Frederick Street	North of Cactus Avenue	61.9	RW	62	133	287
59	Heacock Street	North of Alessandro Boulevard	66.1	55	119	256	551
60	Heacock Street	North of Cactus Avenue	64.7	RW	96	207	446
61	Indian Street	North of Cottonwood Avenue	59.6	RW	RW	94	201
62	Indian Street	North of Alessandro Boulevard	64.5	RW	93	201	433
63	Indian Street	North of Cactus Avenue	64.7	RW	95	205	441
64	Indian Street	South of John F. Kennedy Drive	63.3	RW	77	166	357
65	Indian Street	North of Gentian Avenue	58.4	RW	RW	79	170
66	Indian Street	South of Iris Avenue	57.0	RW	RW	63	136
67	Indian Street	North of Krameria Avenue	57.1	RW	RW	64	138
68	Indian Street	South of Krameria Avenue	53.8	RW	RW	RW	83
69	Indian Street	South of Harley Knox Boulevard	60.6	RW	RW	110	238
70	Perris Boulevard	North of SR-60 WB Ramps	69.9	98	212	456	982
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	70.2	104	223	481	1,037
72	Perris Boulevard	South of Sunnymead Boulevard	68.1	75	161	348	749
73	Perris Boulevard	North of Eucalyptus Avenue	67.3	66	142	307	661
74	Perris Boulevard	South of Eucalyptus Avenue	66.8	62	133	286	617

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
75	Perris Boulevard	North of Cottonwood Avenue	67.8	72	155	333	717
76	Perris Boulevard	South of Cottonwood Avenue	67.3	66	143	308	663
77	Perris Boulevard	North of Alessandro Boulevard	66.8	61	132	285	614
78	Perris Boulevard	South of Alessandro Boulevard	66.9	62	133	287	618
79	Perris Boulevard	North of Cactus Avenue	66.6	59	127	273	589
80	Perris Boulevard	South of Cactus Avenue	67.5	68	147	316	680
81	Perris Boulevard	North of John F. Kennedy Drive	66.9	62	134	288	621
82	Perris Boulevard	South of John F. Kennedy Drive	67.8	71	153	329	710
83	Perris Boulevard	North of Gentian Avenue	67.1	64	138	297	640
84	Perris Boulevard	Gentian Avenue to Driveway 3	67.1	64	138	297	639
85	Perris Boulevard	Driveway 3 to Driveway 4	67.1	64	138	297	639
86	Perris Boulevard	Driveway 4 to Santiago Drive	67.1	64	138	297	639
87	Perris Boulevard	Santiago Drive to Iris Avenue	66.9	62	133	287	619
88	Perris Boulevard	South of Iris Avenue	67.1	64	138	297	640
89	Perris Boulevard	North of Krameria Avenue	66.7	60	130	280	603
90	Perris Boulevard	South of Krameria Avenue	67.0	63	135	291	627
91	Perris Boulevard	North of San Michele Road	67.3	66	142	306	659
92	Perris Boulevard	San Michele Road to Nandina Avenue	67.1	64	137	295	636
93	Perris Boulevard	South of Nandina Avenue	67.0	63	137	294	634
94	Perris Boulevard	North of Harley Knox Boulevard	64.2	RW	88	190	409
95	Perris Boulevard	South of Harley Knox Boulevard	63.8	RW	83	179	386
96	Perris Boulevard	North of Ramona Expressway	65.6	RW	109	236	508
97	Perris Boulevard	South of Ramona Expressway	66.6	59	128	275	592
98	Kitching Street	North of Cactus Avenue	62.2	RW	65	141	304
99	Kitching Street	South of Cactus Avenue	59.5	RW	RW	93	201
100	Kitching Street	North of John F. Kennedy Drive	59.1	RW	RW	87	187
101	Kitching Street	South of John F. Kennedy Drive	59.9	RW	RW	98	212
102	Kitching Street	North of Iris Avenue	62.0	RW	63	135	291
103	Kitching Street	South of Iris Avenue	60.5	RW	RW	109	234
104	Lasselle Street	North of Iris Avenue	66.9	62	133	287	619
105	Lasselle Street	South of Iris Avenue	68.5	79	170	366	789

"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-2: EXISTING WITH PROJECT CONDITIONS NOISE CONTOURS

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	66.6	60	128	277	596
2	Eucalyptus Avenue	East of Perris Boulevard	59.2	RW	RW	88	190
3	Cottonwood Avenue	West of Indian Street	62.0	RW	63	135	291
4	Cottonwood Avenue	East of Indian Street	61.1	RW	55	119	257
5	Cottonwood Avenue	West of Perris Boulevard	60.6	RW	RW	110	237
6	Cottonwood Avenue	East of Perris Boulevard	59.7	RW	RW	95	206
7	Alessandro Boulevard	West of Heacock Street	69.5	92	198	428	921
8	Alessandro Boulevard	East of Heacock Street	69.3	90	194	417	898
9	Alessandro Boulevard	West of Indian Street	68.9	84	181	390	840
10	Alessandro Boulevard	East of Indian Street	68.8	83	178	384	828
11	Alessandro Boulevard	West of Perris Boulevard	68.6	81	174	376	810
12	Alessandro Boulevard	East of Perris Boulevard	66.9	62	133	287	619
13	Cactus Avenue	West of I-215 Freeway	65.3	RW	104	225	485
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	67.8	72	154	332	716
15	Cactus Avenue	East of I-215 NB Ramps	69.7	95	205	442	953
16	Cactus Avenue	West of Elsworth Street	69.6	94	203	438	943
17	Cactus Avenue	East of Elsworth Street	69.9	99	213	458	987
18	Cactus Avenue	West of Frederick Street	69.8	97	208	449	967
19	Cactus Avenue	East of Frederick Street	70.2	104	223	481	1,036
20	Cactus Avenue	West of Graham Street	70.1	101	219	471	1,015
21	Cactus Avenue	East of Graham Street	69.3	90	194	417	899
22	Cactus Avenue	West of Heacock Street	69.3	90	193	416	897
23	Cactus Avenue	East of Heacock Street	66.4	58	125	269	579
24	Cactus Avenue	West of Indian Street	66.3	57	122	263	568
25	Cactus Avenue	East of Indian Street	66.6	59	128	275	594
26	Cactus Avenue	West of Perris Boulevard	66.0	RW	116	250	539
27	Cactus Avenue	East of Perris Boulevard	65.7	RW	112	241	520
28	Cactus Avenue	East of Kitching Street	64.8	RW	96	208	448
29	John F. Kennedy Drive	West of Heacock Street	63.4	RW	78	168	361
30	John F. Kennedy Drive	East of Heacock Street	64.3	RW	90	194	418
31	John F. Kennedy Drive	West of Indian Street	63.9	RW	85	182	392
32	John F. Kennedy Drive	East of Indian Street	64.0	RW	86	186	400
33	John F. Kennedy Drive	West of Perris Boulevard	64.0	RW	86	186	401
34	John F. Kennedy Drive	East of Perris Boulevard	64.3	RW	90	194	417
35	John F. Kennedy Drive	West of Kitching Street	63.9	RW	85	182	393
36	John F. Kennedy Drive	East of Kitching Street	62.1	RW	64	138	297

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
37	Gentian Avenue	West of Indian Street	54.3	RW	RW	RW	90
38	Gentian Avenue	East of Perris Boulevard	54.0	RW	RW	RW	86
39	Santiago Drive	East of Perris Boulevard	54.9	RW	RW	RW	99
40	Iris Avenue	West of Indian Street	60.7	RW	RW	111	240
41	Iris Avenue	East of Indian Street	65.4	RW	106	228	490
42	Iris Avenue	West of Perris Boulevard	65.2	RW	104	224	482
43	Iris Avenue	East of Perris Boulevard	66.5	58	125	270	581
44	Iris Avenue	West of Kitching Street	67.2	65	140	301	649
45	Iris Avenue	East of Kitching Street	67.9	72	156	336	723
46	Iris Avenue	West of Lasselle Street	67.4	67	145	312	673
47	Iris Avenue	East of Lasselle Street	68.0	74	159	342	736
48	Krameria Avenue	East of Indian Street	56.4	RW	RW	57	123
49	Krameria Avenue	West of Perris Boulevard	56.0	RW	RW	RW	117
50	Krameria Avenue	East of Perris Boulevard	63.2	RW	75	162	349
51	Harley Knox Boulevard	West of Webster Avenue	61.8	RW	61	132	285
52	Harley Knox Boulevard	East of Webster Avenue	61.9	RW	63	135	290
53	Harley Knox Boulevard	West of Indian Street	64.3	RW	90	194	418
54	Harley Knox Boulevard	East of Indian Street	62.1	RW	64	138	297
55	Harley Knox Boulevard	West of Perris Boulevard	59.2	RW	RW	88	191
56	Ramona Expressway	West of Perris Boulevard	69.6	95	204	439	946
57	Ramona Expressway	East of Perris Boulevard	69.1	87	188	404	871
58	Frederick Street	North of Cactus Avenue	62.0	RW	63	136	293
59	Heacock Street	North of Alessandro Boulevard	66.2	55	119	257	554
60	Heacock Street	North of Cactus Avenue	64.8	RW	97	208	449
61	Indian Street	North of Cottonwood Avenue	59.7	RW	RW	95	205
62	Indian Street	North of Alessandro Boulevard	64.6	RW	94	202	435
63	Indian Street	North of Cactus Avenue	64.7	RW	96	207	446
64	Indian Street	South of John F. Kennedy Drive	63.4	RW	78	168	363
65	Indian Street	North of Gentian Avenue	58.5	RW	RW	80	171
66	Indian Street	South of Iris Avenue	57.2	RW	RW	65	140
67	Indian Street	North of Krameria Avenue	57.3	RW	RW	66	142
68	Indian Street	South of Krameria Avenue	54.0	RW	RW	RW	86
69	Indian Street	South of Harley Knox Boulevard	60.7	RW	RW	112	241
70	Perris Boulevard	North of SR-60 WB Ramps	69.9	99	212	458	986
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	70.3	104	225	484	1,043
72	Perris Boulevard	South of Sunnymead Boulevard	68.2	76	163	351	757
73	Perris Boulevard	North of Eucalyptus Avenue	67.4	67	144	311	669
74	Perris Boulevard	South of Eucalyptus Avenue	67.0	63	136	292	630

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
75	Perris Boulevard	North of Cottonwood Avenue	68.0	73	158	339	731
76	Perris Boulevard	South of Cottonwood Avenue	67.6	70	150	323	697
77	Perris Boulevard	North of Alessandro Boulevard	67.2	65	140	301	648
78	Perris Boulevard	South of Alessandro Boulevard	67.5	68	146	315	678
79	Perris Boulevard	North of Cactus Avenue	67.2	65	140	303	652
80	Perris Boulevard	South of Cactus Avenue	68.3	78	167	360	776
81	Perris Boulevard	North of John F. Kennedy Drive	67.9	72	155	334	721
82	Perris Boulevard	South of John F. Kennedy Drive	68.8	84	180	389	838
83	Perris Boulevard	North of Gentian Avenue	68.3	77	167	359	774
84	Perris Boulevard	Gentian Avenue to Driveway 3	68.3	77	165	356	766
85	Perris Boulevard	Driveway 3 to Driveway 4	68.0	73	158	340	733
86	Perris Boulevard	Driveway 4 to Santiago Drive	67.9	73	157	338	727
87	Perris Boulevard	Santiago Drive to Iris Avenue	67.9	72	155	335	721
88	Perris Boulevard	South of Iris Avenue	67.6	69	149	322	693
89	Perris Boulevard	North of Krameria Avenue	67.3	66	142	305	657
90	Perris Boulevard	South of Krameria Avenue	67.4	67	145	312	672
91	Perris Boulevard	North of San Michele Road	67.7	70	151	325	699
92	Perris Boulevard	San Michele Road to Nandina Avenue	67.5	68	146	314	676
93	Perris Boulevard	South of Nandina Avenue	67.4	67	145	313	675
94	Perris Boulevard	North of Harley Knox Boulevard	64.6	RW	94	201	434
95	Perris Boulevard	South of Harley Knox Boulevard	64.0	RW	86	186	401
96	Perris Boulevard	North of Ramona Expressway	65.9	RW	114	246	529
97	Perris Boulevard	South of Ramona Expressway	66.7	60	129	279	600
98	Kitching Street	North of Cactus Avenue	62.4	RW	67	144	310
99	Kitching Street	South of Cactus Avenue	59.8	RW	RW	97	209
100	Kitching Street	North of John F. Kennedy Drive	59.4	RW	RW	91	196
101	Kitching Street	South of John F. Kennedy Drive	60.0	RW	RW	100	215
102	Kitching Street	North of Iris Avenue	62.0	RW	63	137	295
103	Kitching Street	South of Iris Avenue	60.6	RW	RW	110	236
104	Lasselle Street	North of Iris Avenue	66.9	62	134	289	623
105	Lasselle Street	South of Iris Avenue	68.5	79	171	368	793

"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-3: YEAR 2018 WITHOUT PROJECT CONDITIONS NOISE CONTOURS

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	67.5	69	148	319	687
2	Eucalyptus Avenue	East of Perris Boulevard	59.8	RW	RW	98	210
3	Cottonwood Avenue	West of Indian Street	62.4	RW	67	144	310
4	Cottonwood Avenue	East of Indian Street	61.4	RW	58	125	269
5	Cottonwood Avenue	West of Perris Boulevard	61.3	RW	57	123	265
6	Cottonwood Avenue	East of Perris Boulevard	60.4	RW	RW	106	229
7	Alessandro Boulevard	West of Heacock Street	70.1	101	218	470	1,013
8	Alessandro Boulevard	East of Heacock Street	69.8	97	209	450	970
9	Alessandro Boulevard	West of Indian Street	69.4	91	197	424	913
10	Alessandro Boulevard	East of Indian Street	69.3	89	192	414	892
11	Alessandro Boulevard	West of Perris Boulevard	69.1	87	188	406	874
12	Alessandro Boulevard	East of Perris Boulevard	67.7	71	152	328	707
13	Cactus Avenue	West of I-215 Freeway	68.7	82	176	380	819
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	70.6	109	234	505	1,088
15	Cactus Avenue	East of I-215 NB Ramps	71.3	121	262	564	1,214
16	Cactus Avenue	West of Elsworth Street	71.8	133	286	616	1,326
17	Cactus Avenue	East of Elsworth Street	72.3	142	307	661	1,424
18	Cactus Avenue	West of Frederick Street	72.4	145	313	674	1,452
19	Cactus Avenue	East of Frederick Street	72.5	147	316	681	1,466
20	Cactus Avenue	West of Graham Street	72.3	143	309	665	1,433
21	Cactus Avenue	East of Graham Street	71.3	122	264	568	1,224
22	Cactus Avenue	West of Heacock Street	70.9	114	247	531	1,145
23	Cactus Avenue	East of Heacock Street	68.7	82	177	382	823
24	Cactus Avenue	West of Indian Street	68.3	77	165	355	766
25	Cactus Avenue	East of Indian Street	67.9	72	155	335	721
26	Cactus Avenue	West of Perris Boulevard	67.4	67	144	310	669
27	Cactus Avenue	East of Perris Boulevard	67.2	65	140	302	651
28	Cactus Avenue	East of Kitching Street	66.1	55	118	254	548
29	John F. Kennedy Drive	West of Heacock Street	64.0	RW	86	185	398
30	John F. Kennedy Drive	East of Heacock Street	64.7	RW	96	206	444
31	John F. Kennedy Drive	West of Indian Street	64.6	RW	94	203	437
32	John F. Kennedy Drive	East of Indian Street	64.7	RW	95	205	442
33	John F. Kennedy Drive	West of Perris Boulevard	64.9	RW	98	211	454
34	John F. Kennedy Drive	East of Perris Boulevard	65.1	RW	101	218	470
35	John F. Kennedy Drive	West of Kitching Street	64.7	RW	96	206	444
36	John F. Kennedy Drive	East of Kitching Street	63.4	RW	78	169	363

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
37	Gentian Avenue	West of Indian Street	54.8	RW	RW	RW	97
38	Gentian Avenue	East of Perris Boulevard	55.0	RW	RW	RW	99
39	Santiago Drive	East of Perris Boulevard	55.7	RW	RW	RW	111
40	Iris Avenue	West of Indian Street	61.1	RW	55	118	255
41	Iris Avenue	East of Indian Street	65.7	RW	112	240	518
42	Iris Avenue	West of Perris Boulevard	65.8	RW	114	245	528
43	Iris Avenue	East of Perris Boulevard	66.7	60	129	279	600
44	Iris Avenue	West of Kitching Street	67.5	68	146	315	678
45	Iris Avenue	East of Kitching Street	68.5	79	171	367	792
46	Iris Avenue	West of Lasselle Street	68.0	74	160	344	741
47	Iris Avenue	East of Lasselle Street	68.7	82	177	381	821
48	Krameria Avenue	East of Indian Street	57.3	RW	RW	66	143
49	Krameria Avenue	West of Perris Boulevard	57.2	RW	RW	65	140
50	Krameria Avenue	East of Perris Boulevard	63.8	RW	83	180	387
51	Harley Knox Boulevard	West of Webster Avenue	67.2	65	139	300	647
52	Harley Knox Boulevard	East of Webster Avenue	67.2	65	140	301	648
53	Harley Knox Boulevard	West of Indian Street	69.2	88	190	409	882
54	Harley Knox Boulevard	East of Indian Street	65.3	RW	104	224	483
55	Harley Knox Boulevard	West of Perris Boulevard	63.0	RW	74	158	341
56	Ramona Expressway	West of Perris Boulevard	70.8	112	242	521	1,123
57	Ramona Expressway	East of Perris Boulevard	70.4	107	230	495	1,067
58	Frederick Street	North of Cactus Avenue	64.9	RW	98	211	455
59	Heacock Street	North of Alessandro Boulevard	66.5	59	127	273	588
60	Heacock Street	North of Cactus Avenue	65.2	RW	104	224	482
61	Indian Street	North of Cottonwood Avenue	60.1	RW	RW	101	217
62	Indian Street	North of Alessandro Boulevard	64.9	RW	99	213	458
63	Indian Street	North of Cactus Avenue	65.2	RW	103	222	479
64	Indian Street	South of John F. Kennedy Drive	63.9	RW	84	181	390
65	Indian Street	North of Gentian Avenue	59.2	RW	RW	89	192
66	Indian Street	South of Iris Avenue	57.8	RW	RW	72	155
67	Indian Street	North of Krameria Avenue	58.2	RW	RW	76	164
68	Indian Street	South of Krameria Avenue	56.0	RW	RW	RW	116
69	Indian Street	South of Harley Knox Boulevard	63.1	RW	75	161	348
70	Perris Boulevard	North of SR-60 WB Ramps	70.4	107	231	497	1,071
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	70.9	116	249	537	1,157
72	Perris Boulevard	South of Sunnymead Boulevard	68.8	83	179	385	829
73	Perris Boulevard	North of Eucalyptus Avenue	68.1	75	162	348	750
74	Perris Boulevard	South of Eucalyptus Avenue	67.9	72	156	336	724

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
75	Perris Boulevard	North of Cottonwood Avenue	68.6	81	174	376	809
76	Perris Boulevard	South of Cottonwood Avenue	68.1	75	162	348	751
77	Perris Boulevard	North of Alessandro Boulevard	67.8	71	153	330	711
78	Perris Boulevard	South of Alessandro Boulevard	67.8	72	154	332	716
79	Perris Boulevard	North of Cactus Avenue	67.5	68	147	316	681
80	Perris Boulevard	South of Cactus Avenue	68.5	80	171	369	795
81	Perris Boulevard	North of John F. Kennedy Drive	68.0	73	158	341	734
82	Perris Boulevard	South of John F. Kennedy Drive	68.8	83	180	387	835
83	Perris Boulevard	North of Gentian Avenue	68.3	76	165	355	765
84	Perris Boulevard	Gentian Avenue to Driveway 3	68.2	76	164	353	761
85	Perris Boulevard	Driveway 3 to Driveway 4	68.2	76	164	352	759
86	Perris Boulevard	Driveway 4 to Santiago Drive	68.2	76	164	352	759
87	Perris Boulevard	Santiago Drive to Iris Avenue	68.1	75	161	347	748
88	Perris Boulevard	South of Iris Avenue	68.2	76	163	351	757
89	Perris Boulevard	North of Krameria Avenue	67.9	73	157	339	729
90	Perris Boulevard	South of Krameria Avenue	68.1	75	162	349	751
91	Perris Boulevard	North of San Michele Road	68.4	78	168	362	781
92	Perris Boulevard	San Michele Road to Nandina Avenue	68.3	77	166	357	770
93	Perris Boulevard	South of Nandina Avenue	69.3	90	195	419	904
94	Perris Boulevard	North of Harley Knox Boulevard	66.9	62	133	286	617
95	Perris Boulevard	South of Harley Knox Boulevard	66.2	55	120	257	555
96	Perris Boulevard	North of Ramona Expressway	68.1	75	161	347	748
97	Perris Boulevard	South of Ramona Expressway	69.1	87	188	405	872
98	Kitching Street	North of Cactus Avenue	63.2	RW	76	164	354
99	Kitching Street	South of Cactus Avenue	60.4	RW	RW	106	228
100	Kitching Street	North of John F. Kennedy Drive	60.1	RW	RW	102	220
101	Kitching Street	South of John F. Kennedy Drive	60.7	RW	RW	111	239
102	Kitching Street	North of Iris Avenue	63.0	RW	73	157	339
103	Kitching Street	South of Iris Avenue	61.7	RW	60	130	280
104	Lasselle Street	North of Iris Avenue	67.3	67	143	309	665
105	Lasselle Street	South of Iris Avenue	68.7	83	178	383	825

"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-4: YEAR 2018 WITH PROJECT CONDITIONS NOISE CONTOURS

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	67.6	69	148	320	689
2	Eucalyptus Avenue	East of Perris Boulevard	59.9	RW	RW	99	213
3	Cottonwood Avenue	West of Indian Street	62.4	RW	67	145	313
4	Cottonwood Avenue	East of Indian Street	61.6	RW	60	128	277
5	Cottonwood Avenue	West of Perris Boulevard	61.6	RW	60	128	277
6	Cottonwood Avenue	East of Perris Boulevard	60.5	RW	RW	108	233
7	Alessandro Boulevard	West of Heacock Street	70.1	102	220	474	1,021
8	Alessandro Boulevard	East of Heacock Street	69.9	98	212	457	984
9	Alessandro Boulevard	West of Indian Street	69.5	93	200	431	928
10	Alessandro Boulevard	East of Indian Street	69.4	91	196	422	909
11	Alessandro Boulevard	West of Perris Boulevard	69.3	89	193	415	894
12	Alessandro Boulevard	East of Perris Boulevard	67.8	71	154	331	713
13	Cactus Avenue	West of I-215 Freeway	68.7	82	177	381	821
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	70.6	109	235	507	1,091
15	Cactus Avenue	East of I-215 NB Ramps	71.3	122	263	566	1,219
16	Cactus Avenue	West of Elsworth Street	71.9	133	287	618	1,331
17	Cactus Avenue	East of Elsworth Street	72.3	143	308	663	1,429
18	Cactus Avenue	West of Frederick Street	72.5	146	314	676	1,457
19	Cactus Avenue	East of Frederick Street	72.5	147	318	685	1,475
20	Cactus Avenue	West of Graham Street	72.4	144	311	669	1,441
21	Cactus Avenue	East of Graham Street	71.4	123	266	572	1,233
22	Cactus Avenue	West of Heacock Street	70.9	115	249	536	1,154
23	Cactus Avenue	East of Heacock Street	68.8	83	180	387	834
24	Cactus Avenue	West of Indian Street	68.4	78	167	361	777
25	Cactus Avenue	East of Indian Street	68.0	74	159	342	737
26	Cactus Avenue	West of Perris Boulevard	67.5	69	148	318	685
27	Cactus Avenue	East of Perris Boulevard	67.3	66	142	305	657
28	Cactus Avenue	East of Kitching Street	66.2	55	120	258	555
29	John F. Kennedy Drive	West of Heacock Street	64.0	RW	86	186	400
30	John F. Kennedy Drive	East of Heacock Street	64.7	RW	96	207	446
31	John F. Kennedy Drive	West of Indian Street	64.7	RW	95	205	442
32	John F. Kennedy Drive	East of Indian Street	64.8	RW	97	210	452
33	John F. Kennedy Drive	West of Perris Boulevard	65.0	RW	101	217	467
34	John F. Kennedy Drive	East of Perris Boulevard	65.4	RW	107	230	495
35	John F. Kennedy Drive	West of Kitching Street	65.1	RW	101	218	469
36	John F. Kennedy Drive	East of Kitching Street	63.5	RW	80	172	371

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
37	Gentian Avenue	West of Indian Street	55.0	RW	RW	RW	100
38	Gentian Avenue	East of Perris Boulevard	55.3	RW	RW	RW	104
39	Santiago Drive	East of Perris Boulevard	55.9	RW	RW	RW	115
40	Iris Avenue	West of Indian Street	61.2	RW	56	120	258
41	Iris Avenue	East of Indian Street	65.8	RW	114	245	527
42	Iris Avenue	West of Perris Boulevard	66.0	RW	117	252	542
43	Iris Avenue	East of Perris Boulevard	67.0	63	136	293	631
44	Iris Avenue	West of Kitching Street	67.7	70	151	326	703
45	Iris Avenue	East of Kitching Street	68.7	81	175	378	814
46	Iris Avenue	West of Lasselle Street	68.2	76	164	353	760
47	Iris Avenue	East of Lasselle Street	68.8	83	179	385	830
48	Krameria Avenue	East of Indian Street	57.4	RW	RW	67	145
49	Krameria Avenue	West of Perris Boulevard	57.3	RW	RW	66	142
50	Krameria Avenue	East of Perris Boulevard	63.9	RW	85	182	393
51	Harley Knox Boulevard	West of Webster Avenue	67.2	65	140	302	651
52	Harley Knox Boulevard	East of Webster Avenue	67.2	66	141	304	655
53	Harley Knox Boulevard	West of Indian Street	69.3	89	192	415	893
54	Harley Knox Boulevard	East of Indian Street	65.5	RW	108	232	500
55	Harley Knox Boulevard	West of Perris Boulevard	63.2	RW	76	164	353
56	Ramona Expressway	West of Perris Boulevard	70.8	113	243	523	1,127
57	Ramona Expressway	East of Perris Boulevard	70.5	107	231	499	1,074
58	Frederick Street	North of Cactus Avenue	64.9	RW	99	213	460
59	Heacock Street	North of Alessandro Boulevard	66.6	59	128	276	595
60	Heacock Street	North of Cactus Avenue	65.3	RW	104	225	485
61	Indian Street	North of Cottonwood Avenue	60.2	RW	RW	102	221
62	Indian Street	North of Alessandro Boulevard	65.0	RW	99	214	461
63	Indian Street	North of Cactus Avenue	65.3	RW	104	224	483
64	Indian Street	South of John F. Kennedy Drive	64.0	RW	85	184	396
65	Indian Street	North of Gentian Avenue	59.3	RW	RW	90	194
66	Indian Street	South of Iris Avenue	58.0	RW	RW	74	159
67	Indian Street	North of Krameria Avenue	58.4	RW	RW	78	167
68	Indian Street	South of Krameria Avenue	56.1	RW	RW	55	118
69	Indian Street	South of Harley Knox Boulevard	63.2	RW	76	163	351
70	Perris Boulevard	North of SR-60 WB Ramps	70.5	108	232	499	1,075
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	71.0	116	250	540	1,162
72	Perris Boulevard	South of Sunnymead Boulevard	68.8	84	180	388	836
73	Perris Boulevard	North of Eucalyptus Avenue	68.2	76	163	352	758
74	Perris Boulevard	South of Eucalyptus Avenue	68.0	74	159	342	736

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
75	Perris Boulevard	North of Cottonwood Avenue	68.7	82	177	382	823
76	Perris Boulevard	South of Cottonwood Avenue	68.4	78	168	363	782
77	Perris Boulevard	North of Alessandro Boulevard	68.1	74	160	345	743
78	Perris Boulevard	South of Alessandro Boulevard	68.3	77	166	358	772
79	Perris Boulevard	North of Cactus Avenue	68.0	74	159	343	740
80	Perris Boulevard	South of Cactus Avenue	69.2	88	191	411	884
81	Perris Boulevard	North of John F. Kennedy Drive	68.8	83	178	384	827
82	Perris Boulevard	South of John F. Kennedy Drive	69.7	95	206	443	954
83	Perris Boulevard	North of Gentian Avenue	69.2	89	191	413	889
84	Perris Boulevard	Gentian Avenue to Driveway 3	69.2	88	189	408	879
85	Perris Boulevard	Driveway 3 to Driveway 4	68.9	85	182	393	846
86	Perris Boulevard	Driveway 4 to Santiago Drive	68.9	84	181	390	841
87	Perris Boulevard	Santiago Drive to Iris Avenue	68.9	84	181	391	842
88	Perris Boulevard	South of Iris Avenue	68.6	81	174	374	806
89	Perris Boulevard	North of Krameria Avenue	68.4	78	168	362	779
90	Perris Boulevard	South of Krameria Avenue	68.5	79	171	368	793
91	Perris Boulevard	North of San Michele Road	68.7	82	176	379	817
92	Perris Boulevard	San Michele Road to Nandina Avenue	68.6	81	174	374	807
93	Perris Boulevard	South of Nandina Avenue	69.6	94	202	435	938
94	Perris Boulevard	North of Harley Knox Boulevard	67.1	64	137	296	637
95	Perris Boulevard	South of Harley Knox Boulevard	66.3	57	122	263	567
96	Perris Boulevard	North of Ramona Expressway	68.3	77	165	356	766
97	Perris Boulevard	South of Ramona Expressway	69.2	88	189	408	878
98	Kitching Street	North of Cactus Avenue	63.3	RW	78	167	360
99	Kitching Street	South of Cactus Avenue	60.6	RW	RW	109	236
100	Kitching Street	North of John F. Kennedy Drive	60.4	RW	RW	106	228
101	Kitching Street	South of John F. Kennedy Drive	60.8	RW	RW	112	242
102	Kitching Street	North of Iris Avenue	63.0	RW	74	159	342
103	Kitching Street	South of Iris Avenue	61.8	RW	61	131	282
104	Lasselle Street	North of Iris Avenue	67.4	67	144	311	670
105	Lasselle Street	South of Iris Avenue	68.8	83	179	385	829

"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-5: YEAR 2035 WITHOUT PROJECT CONDITIONS NOISE CONTOURS

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	68.9	84	181	391	842
2	Eucalyptus Avenue	East of Perris Boulevard	62.4	RW	68	146	314
3	Cottonwood Avenue	West of Indian Street	64.0	RW	85	184	396
4	Cottonwood Avenue	East of Indian Street	63.2	RW	75	162	349
5	Cottonwood Avenue	West of Perris Boulevard	65.0	RW	100	216	465
6	Cottonwood Avenue	East of Perris Boulevard	63.2	RW	76	164	354
7	Alessandro Boulevard	West of Heacock Street	72.4	144	310	667	1,438
8	Alessandro Boulevard	East of Heacock Street	71.9	133	286	617	1,329
9	Alessandro Boulevard	West of Indian Street	71.7	129	278	600	1,292
10	Alessandro Boulevard	East of Indian Street	71.4	124	266	573	1,235
11	Alessandro Boulevard	West of Perris Boulevard	71.4	124	266	573	1,235
12	Alessandro Boulevard	East of Perris Boulevard	70.9	115	247	532	1,145
13	Cactus Avenue	West of I-215 Freeway	70.5	108	232	500	1,076
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	71.0	116	250	539	1,160
15	Cactus Avenue	East of I-215 NB Ramps	72.4	145	312	672	1,448
16	Cactus Avenue	West of Elsworth Street	72.3	141	305	656	1,414
17	Cactus Avenue	East of Elsworth Street	72.7	151	325	701	1,511
18	Cactus Avenue	West of Frederick Street	72.8	155	333	718	1,547
19	Cactus Avenue	East of Frederick Street	73.0	158	341	735	1,583
20	Cactus Avenue	West of Graham Street	72.8	153	329	709	1,527
21	Cactus Avenue	East of Graham Street	72.4	145	312	673	1,449
22	Cactus Avenue	West of Heacock Street	72.1	137	295	636	1,371
23	Cactus Avenue	East of Heacock Street	70.6	109	236	508	1,095
24	Cactus Avenue	West of Indian Street	70.2	103	221	476	1,026
25	Cactus Avenue	East of Indian Street	70.2	103	222	479	1,032
26	Cactus Avenue	West of Perris Boulevard	69.9	99	213	460	991
27	Cactus Avenue	East of Perris Boulevard	69.3	90	194	417	899
28	Cactus Avenue	East of Kitching Street	68.2	76	164	352	759
29	John F. Kennedy Drive	West of Heacock Street	66.3	57	122	263	566
30	John F. Kennedy Drive	East of Heacock Street	66.0	RW	117	253	544
31	John F. Kennedy Drive	West of Indian Street	67.2	65	140	301	648
32	John F. Kennedy Drive	East of Indian Street	67.5	68	147	316	681
33	John F. Kennedy Drive	West of Perris Boulevard	68.4	78	168	362	779
34	John F. Kennedy Drive	East of Perris Boulevard	69.0	86	186	401	863
35	John F. Kennedy Drive	West of Kitching Street	68.9	84	181	390	840
36	John F. Kennedy Drive	East of Kitching Street	68.5	79	171	368	794

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
37	Gentian Avenue	West of Indian Street	56.8	RW	RW	61	132
38	Gentian Avenue	East of Perris Boulevard	59.4	RW	RW	92	198
39	Santiago Drive	East of Perris Boulevard	59.1	RW	RW	88	189
40	Iris Avenue	West of Indian Street	62.7	RW	70	152	327
41	Iris Avenue	East of Indian Street	67.4	67	144	310	668
42	Iris Avenue	West of Perris Boulevard	68.5	79	171	369	795
43	Iris Avenue	East of Perris Boulevard	68.5	79	170	366	789
44	Iris Avenue	West of Kitching Street	69.2	88	190	410	883
45	Iris Avenue	East of Kitching Street	71.1	119	257	553	1,192
46	Iris Avenue	West of Lasselle Street	70.8	113	243	523	1,127
47	Iris Avenue	East of Lasselle Street	71.4	124	266	573	1,235
48	Krameria Avenue	East of Indian Street	61.0	RW	RW	117	252
49	Krameria Avenue	West of Perris Boulevard	61.7	RW	60	130	279
50	Krameria Avenue	East of Perris Boulevard	66.4	58	124	268	577
51	Harley Knox Boulevard	West of Webster Avenue	67.9	73	156	337	725
52	Harley Knox Boulevard	East of Webster Avenue	67.9	73	156	337	725
53	Harley Knox Boulevard	West of Indian Street	69.9	98	211	455	980
54	Harley Knox Boulevard	East of Indian Street	69.6	95	204	439	945
55	Harley Knox Boulevard	West of Perris Boulevard	66.7	60	130	279	602
56	Ramona Expressway	West of Perris Boulevard	71.4	124	268	577	1,243
57	Ramona Expressway	East of Perris Boulevard	71.6	128	275	592	1,275
58	Frederick Street	North of Cactus Avenue	65.3	RW	104	225	485
59	Heacock Street	North of Alessandro Boulevard	66.9	62	134	289	622
60	Heacock Street	North of Cactus Avenue	66.8	61	132	284	613
61	Indian Street	North of Cottonwood Avenue	61.7	RW	60	129	279
62	Indian Street	North of Alessandro Boulevard	66.0	RW	117	253	545
63	Indian Street	North of Cactus Avenue	66.8	61	131	282	608
64	Indian Street	South of John F. Kennedy Drive	65.1	RW	102	219	472
65	Indian Street	North of Gentian Avenue	61.2	RW	56	120	259
66	Indian Street	South of Iris Avenue	60.4	RW	RW	107	230
67	Indian Street	North of Krameria Avenue	61.7	RW	60	130	279
68	Indian Street	South of Krameria Avenue	63.3	RW	77	166	357
69	Indian Street	South of Harley Knox Boulevard	69.0	85	183	395	852
70	Perris Boulevard	North of SR-60 WB Ramps	72.4	144	310	667	1,438
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	71.3	122	262	564	1,216
72	Perris Boulevard	South of Sunnymead Boulevard	71.0	116	250	539	1,162
73	Perris Boulevard	North of Eucalyptus Avenue	70.9	115	247	532	1,145
74	Perris Boulevard	South of Eucalyptus Avenue	71.4	124	268	577	1,243

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
75	Perris Boulevard	North of Cottonwood Avenue	71.2	121	261	562	1,211
76	Perris Boulevard	South of Cottonwood Avenue	70.8	113	243	524	1,129
77	Perris Boulevard	North of Alessandro Boulevard	71.0	116	250	539	1,162
78	Perris Boulevard	South of Alessandro Boulevard	71.0	116	250	539	1,162
79	Perris Boulevard	North of Cactus Avenue	70.6	109	236	508	1,095
80	Perris Boulevard	South of Cactus Avenue	71.9	133	286	617	1,329
81	Perris Boulevard	North of John F. Kennedy Drive	71.6	127	274	591	1,273
82	Perris Boulevard	South of John F. Kennedy Drive	72.2	140	302	651	1,402
83	Perris Boulevard	North of Gentian Avenue	71.9	135	290	625	1,348
84	Perris Boulevard	Gentian Avenue to Driveway 3	71.8	131	282	608	1,311
85	Perris Boulevard	Driveway 3 to Driveway 4	71.8	131	282	608	1,311
86	Perris Boulevard	Driveway 4 to Santiago Drive	71.8	131	282	608	1,311
87	Perris Boulevard	Santiago Drive to Iris Avenue	72.1	137	295	636	1,371
88	Perris Boulevard	South of Iris Avenue	71.8	131	282	608	1,311
89	Perris Boulevard	North of Krameria Avenue	72.0	137	294	634	1,366
90	Perris Boulevard	South of Krameria Avenue	72.0	137	294	634	1,366
91	Perris Boulevard	North of San Michele Road	72.0	137	294	634	1,366
92	Perris Boulevard	San Michele Road to Nandina Avenue	72.4	146	314	676	1,455
93	Perris Boulevard	South of Nandina Avenue	72.3	142	306	659	1,420
94	Perris Boulevard	North of Harley Knox Boulevard	69.2	89	192	413	890
95	Perris Boulevard	South of Harley Knox Boulevard	68.1	75	162	348	750
96	Perris Boulevard	North of Ramona Expressway	70.3	104	225	484	1,043
97	Perris Boulevard	South of Ramona Expressway	70.0	99	214	461	993
98	Kitching Street	North of Cactus Avenue	66.6	59	128	275	593
99	Kitching Street	South of Cactus Avenue	63.1	RW	74	160	344
100	Kitching Street	North of John F. Kennedy Drive	63.6	RW	81	174	374
101	Kitching Street	South of John F. Kennedy Drive	63.3	RW	77	165	355
102	Kitching Street	North of Iris Avenue	66.3	56	122	262	564
103	Kitching Street	South of Iris Avenue	65.6	RW	110	237	511
104	Lasselle Street	North of Iris Avenue	68.9	85	183	394	849
105	Lasselle Street	South of Iris Avenue	69.7	96	206	445	958

"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-6: YEAR 2035 WITH PROJECT CONDITIONS NOISE CONTOURS

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	68.9	84	182	392	844
2	Eucalyptus Avenue	East of Perris Boulevard	62.5	RW	68	146	315
3	Cottonwood Avenue	West of Indian Street	64.0	RW	86	185	400
4	Cottonwood Avenue	East of Indian Street	63.2	RW	76	163	351
5	Cottonwood Avenue	West of Perris Boulevard	65.0	RW	100	216	466
6	Cottonwood Avenue	East of Perris Boulevard	63.3	RW	77	166	357
7	Alessandro Boulevard	West of Heacock Street	72.4	144	311	671	1,445
8	Alessandro Boulevard	East of Heacock Street	71.9	133	287	619	1,333
9	Alessandro Boulevard	West of Indian Street	71.7	130	279	601	1,296
10	Alessandro Boulevard	East of Indian Street	71.4	124	267	574	1,237
11	Alessandro Boulevard	West of Perris Boulevard	71.4	124	267	574	1,237
12	Alessandro Boulevard	East of Perris Boulevard	70.9	115	247	532	1,147
13	Cactus Avenue	West of I-215 Freeway	70.5	108	232	500	1,078
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	71.0	116	250	539	1,162
15	Cactus Avenue	East of I-215 NB Ramps	72.4	145	313	674	1,453
16	Cactus Avenue	West of Elsworth Street	72.3	142	306	658	1,418
17	Cactus Avenue	East of Elsworth Street	72.7	152	327	704	1,516
18	Cactus Avenue	West of Frederick Street	72.9	155	334	721	1,552
19	Cactus Avenue	East of Frederick Street	73.0	159	343	738	1,591
20	Cactus Avenue	West of Graham Street	72.8	154	331	712	1,535
21	Cactus Avenue	East of Graham Street	72.5	146	314	677	1,458
22	Cactus Avenue	West of Heacock Street	72.1	138	297	640	1,380
23	Cactus Avenue	East of Heacock Street	70.6	110	238	513	1,104
24	Cactus Avenue	West of Indian Street	70.2	104	223	481	1,036
25	Cactus Avenue	East of Indian Street	70.2	103	222	479	1,032
26	Cactus Avenue	West of Perris Boulevard	69.9	99	213	460	991
27	Cactus Avenue	East of Perris Boulevard	69.3	90	194	418	901
28	Cactus Avenue	East of Kitching Street	68.3	77	165	355	765
29	John F. Kennedy Drive	West of Heacock Street	66.3	57	123	264	569
30	John F. Kennedy Drive	East of Heacock Street	66.1	55	119	257	553
31	John F. Kennedy Drive	West of Indian Street	67.3	66	142	306	658
32	John F. Kennedy Drive	East of Indian Street	67.5	68	147	317	683
33	John F. Kennedy Drive	West of Perris Boulevard	68.4	78	168	362	779
34	John F. Kennedy Drive	East of Perris Boulevard	69.2	89	191	412	887
35	John F. Kennedy Drive	West of Kitching Street	69.0	86	186	400	862
36	John F. Kennedy Drive	East of Kitching Street	68.5	80	172	371	799

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
37	Gentian Avenue	West of Indian Street	57.2	RW	RW	65	141
38	Gentian Avenue	East of Perris Boulevard	59.5	RW	RW	93	199
39	Santiago Drive	East of Perris Boulevard	59.3	RW	RW	89	192
40	Iris Avenue	West of Indian Street	62.7	RW	70	152	327
41	Iris Avenue	East of Indian Street	67.4	67	144	311	670
42	Iris Avenue	West of Perris Boulevard	68.5	80	172	371	799
43	Iris Avenue	East of Perris Boulevard	68.7	81	175	378	814
44	Iris Avenue	West of Kitching Street	69.3	90	195	419	903
45	Iris Avenue	East of Kitching Street	71.2	121	260	561	1,209
46	Iris Avenue	West of Lasselle Street	70.9	114	246	530	1,141
47	Iris Avenue	East of Lasselle Street	71.4	124	268	577	1,243
48	Krameria Avenue	East of Indian Street	61.1	RW	55	118	254
49	Krameria Avenue	West of Perris Boulevard	61.7	RW	60	130	281
50	Krameria Avenue	East of Perris Boulevard	66.5	58	125	270	581
51	Harley Knox Boulevard	West of Webster Avenue	67.9	73	157	338	729
52	Harley Knox Boulevard	East of Webster Avenue	68.0	73	158	340	732
53	Harley Knox Boulevard	West of Indian Street	69.9	99	213	460	990
54	Harley Knox Boulevard	East of Indian Street	69.7	95	204	440	949
55	Harley Knox Boulevard	West of Perris Boulevard	66.7	60	130	281	605
56	Ramona Expressway	West of Perris Boulevard	71.4	124	268	578	1,245
57	Ramona Expressway	East of Perris Boulevard	71.6	128	276	595	1,282
58	Frederick Street	North of Cactus Avenue	65.3	RW	105	227	489
59	Heacock Street	North of Alessandro Boulevard	67.0	63	135	292	628
60	Heacock Street	North of Cactus Avenue	66.9	63	135	290	626
61	Indian Street	North of Cottonwood Avenue	61.7	RW	61	131	282
62	Indian Street	North of Alessandro Boulevard	66.2	56	120	259	559
63	Indian Street	North of Cactus Avenue	67.0	63	136	293	632
64	Indian Street	South of John F. Kennedy Drive	65.8	RW	114	245	528
65	Indian Street	North of Gentian Avenue	62.0	RW	63	135	292
66	Indian Street	South of Iris Avenue	60.8	RW	RW	113	243
67	Indian Street	North of Krameria Avenue	61.9	RW	63	135	291
68	Indian Street	South of Krameria Avenue	63.4	RW	79	170	366
69	Indian Street	South of Harley Knox Boulevard	69.0	85	184	396	854
70	Perris Boulevard	North of SR-60 WB Ramps	72.4	144	310	669	1,441
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	71.3	122	263	567	1,222
72	Perris Boulevard	South of Sunnymead Boulevard	71.0	117	252	542	1,168
73	Perris Boulevard	North of Eucalyptus Avenue	70.9	115	248	535	1,152
74	Perris Boulevard	South of Eucalyptus Avenue	71.5	125	269	580	1,250

ID	Road	Segment	CNEL at 100 Feet (dBA)	Distance to Contour (Feet)			
				70 dBA CNEL	65 dBA CNEL	60 dBA CNEL	55 dBA CNEL
75	Perris Boulevard	North of Cottonwood Avenue	71.3	122	263	566	1,220
76	Perris Boulevard	South of Cottonwood Avenue	70.9	114	246	531	1,143
77	Perris Boulevard	North of Alessandro Boulevard	71.1	118	253	546	1,176
78	Perris Boulevard	South of Alessandro Boulevard	71.1	118	254	547	1,179
79	Perris Boulevard	North of Cactus Avenue	70.7	111	240	517	1,114
80	Perris Boulevard	South of Cactus Avenue	72.0	135	291	628	1,352
81	Perris Boulevard	North of John F. Kennedy Drive	71.7	130	280	604	1,300
82	Perris Boulevard	South of John F. Kennedy Drive	72.4	145	312	673	1,450
83	Perris Boulevard	North of Gentian Avenue	72.2	140	301	649	1,398
84	Perris Boulevard	Gentian Avenue to Driveway 3	72.1	138	297	640	1,378
85	Perris Boulevard	Driveway 3 to Driveway 4	72.0	136	294	633	1,364
86	Perris Boulevard	Driveway 4 to Santiago Drive	72.0	136	294	633	1,364
87	Perris Boulevard	Santiago Drive to Iris Avenue	72.3	142	307	661	1,425
88	Perris Boulevard	South of Iris Avenue	71.9	134	289	622	1,339
89	Perris Boulevard	North of Krameria Avenue	72.2	139	300	647	1,394
90	Perris Boulevard	South of Krameria Avenue	72.2	139	300	647	1,394
91	Perris Boulevard	North of San Michele Road	72.1	139	298	643	1,385
92	Perris Boulevard	San Michele Road to Nandina Avenue	72.5	147	317	683	1,472
93	Perris Boulevard	South of Nandina Avenue	72.4	144	309	666	1,435
94	Perris Boulevard	North of Harley Knox Boulevard	69.3	90	194	417	899
95	Perris Boulevard	South of Harley Knox Boulevard	68.2	76	163	352	758
96	Perris Boulevard	North of Ramona Expressway	70.3	106	227	490	1,055
97	Perris Boulevard	South of Ramona Expressway	70.0	100	215	463	997
98	Kitching Street	North of Cactus Avenue	66.7	60	129	278	599
99	Kitching Street	South of Cactus Avenue	63.2	RW	76	163	352
100	Kitching Street	North of John F. Kennedy Drive	63.7	RW	82	178	383
101	Kitching Street	South of John F. Kennedy Drive	63.3	RW	77	166	358
102	Kitching Street	North of Iris Avenue	66.3	57	122	263	566
103	Kitching Street	South of Iris Avenue	65.7	RW	111	238	513
104	Lasselle Street	North of Iris Avenue	69.0	85	183	395	851
105	Lasselle Street	South of Iris Avenue	69.7	96	207	446	962

"RW" = Location of the respective noise contour falls within the right-of-way of the road.

TABLE 7-7: EXISTING OFF-SITE PROJECT RELATED TRAFFIC NOISE IMPACTS

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	66.6	66.6	0.0	No
2	Eucalyptus Avenue	East of Perris Boulevard	59.1	59.2	0.1	No
3	Cottonwood Avenue	West of Indian Street	61.9	62.0	0.1	No
4	Cottonwood Avenue	East of Indian Street	60.9	61.1	0.2	No
5	Cottonwood Avenue	West of Perris Boulevard	60.3	60.6	0.4	No
6	Cottonwood Avenue	East of Perris Boulevard	59.5	59.7	0.2	No
7	Alessandro Boulevard	West of Heacock Street	69.4	69.5	0.1	No
8	Alessandro Boulevard	East of Heacock Street	69.2	69.3	0.1	No
9	Alessandro Boulevard	West of Indian Street	68.7	68.9	0.1	No
10	Alessandro Boulevard	East of Indian Street	68.6	68.8	0.1	No
11	Alessandro Boulevard	West of Perris Boulevard	68.5	68.6	0.2	No
12	Alessandro Boulevard	East of Perris Boulevard	66.8	66.9	0.1	No
13	Cactus Avenue	West of I-215 Freeway	65.3	65.3	0.0	No
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	67.8	67.8	0.0	No
15	Cactus Avenue	East of I-215 NB Ramps	69.7	69.7	0.0	No
16	Cactus Avenue	West of Elsworth Street	69.6	69.6	0.0	No
17	Cactus Avenue	East of Elsworth Street	69.9	69.9	0.0	No
18	Cactus Avenue	West of Frederick Street	69.7	69.8	0.0	No
19	Cactus Avenue	East of Frederick Street	70.2	70.2	0.1	No
20	Cactus Avenue	West of Graham Street	70.0	70.1	0.1	No
21	Cactus Avenue	East of Graham Street	69.2	69.3	0.1	No
22	Cactus Avenue	West of Heacock Street	69.2	69.3	0.1	No
23	Cactus Avenue	East of Heacock Street	66.3	66.4	0.2	No
24	Cactus Avenue	West of Indian Street	66.2	66.3	0.2	No
25	Cactus Avenue	East of Indian Street	66.4	66.6	0.2	No
26	Cactus Avenue	West of Perris Boulevard	65.7	66.0	0.2	No
27	Cactus Avenue	East of Perris Boulevard	65.6	65.7	0.1	No
28	Cactus Avenue	East of Kitching Street	64.7	64.8	0.1	No
29	John F. Kennedy Drive	West of Heacock Street	63.3	63.4	0.1	No
30	John F. Kennedy Drive	East of Heacock Street	64.3	64.3	0.0	No
31	John F. Kennedy Drive	West of Indian Street	63.8	63.9	0.1	No
32	John F. Kennedy Drive	East of Indian Street	63.9	64.0	0.2	No
33	John F. Kennedy Drive	West of Perris Boulevard	63.8	64.0	0.2	No
34	John F. Kennedy Drive	East of Perris Boulevard	63.9	64.3	0.4	No
35	John F. Kennedy Drive	West of Kitching Street	63.4	63.9	0.5	No
36	John F. Kennedy Drive	East of Kitching Street	61.9	62.1	0.2	No
37	Gentian Avenue	West of Indian Street	54.1	54.3	0.3	No

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
38	Gentian Avenue	East of Perris Boulevard	53.6	54.0	0.4	No
39	Santiago Drive	East of Perris Boulevard	54.6	54.9	0.3	No
40	Iris Avenue	West of Indian Street	60.6	60.7	0.1	No
41	Iris Avenue	East of Indian Street	65.2	65.4	0.1	No
42	Iris Avenue	West of Perris Boulevard	65.0	65.2	0.2	No
43	Iris Avenue	East of Perris Boulevard	66.1	66.5	0.4	No
44	Iris Avenue	West of Kitching Street	66.9	67.2	0.3	No
45	Iris Avenue	East of Kitching Street	67.7	67.9	0.2	No
46	Iris Avenue	West of Lasselle Street	67.2	67.4	0.2	No
47	Iris Avenue	East of Lasselle Street	67.9	68.0	0.1	No
48	Krameria Avenue	East of Indian Street	56.2	56.4	0.2	No
49	Krameria Avenue	West of Perris Boulevard	55.9	56.0	0.1	No
50	Krameria Avenue	East of Perris Boulevard	63.0	63.2	0.1	No
51	Harley Knox Boulevard	West of Webster Avenue	61.7	61.8	0.1	No
52	Harley Knox Boulevard	East of Webster Avenue	61.7	61.9	0.3	No
53	Harley Knox Boulevard	West of Indian Street	64.1	64.3	0.3	No
54	Harley Knox Boulevard	East of Indian Street	61.6	62.1	0.5	No
55	Harley Knox Boulevard	West of Perris Boulevard	58.6	59.2	0.6	No
56	Ramona Expressway	West of Perris Boulevard	69.6	69.6	0.0	No
57	Ramona Expressway	East of Perris Boulevard	69.0	69.1	0.1	No
58	Frederick Street	North of Cactus Avenue	61.9	62.0	0.1	No
59	Heacock Street	North of Alessandro Boulevard	66.1	66.2	0.0	No
60	Heacock Street	North of Cactus Avenue	64.7	64.8	0.0	No
61	Indian Street	North of Cottonwood Avenue	59.6	59.7	0.1	No
62	Indian Street	North of Alessandro Boulevard	64.5	64.6	0.0	No
63	Indian Street	North of Cactus Avenue	64.7	64.7	0.1	No
64	Indian Street	South of John F. Kennedy Drive	63.3	63.4	0.1	No
65	Indian Street	North of Gentian Avenue	58.4	58.5	0.1	No
66	Indian Street	South of Iris Avenue	57.0	57.2	0.2	No
67	Indian Street	North of Krameria Avenue	57.1	57.3	0.2	No
68	Indian Street	South of Krameria Avenue	53.8	54.0	0.2	No
69	Indian Street	South of Harley Knox Boulevard	60.6	60.7	0.1	No
70	Perris Boulevard	North of SR-60 WB Ramps	69.9	69.9	0.0	No
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	70.2	70.3	0.0	No
72	Perris Boulevard	South of Sunnymead Boulevard	68.1	68.2	0.1	No
73	Perris Boulevard	North of Eucalyptus Avenue	67.3	67.4	0.1	No
74	Perris Boulevard	South of Eucalyptus Avenue	66.8	67.0	0.1	No
75	Perris Boulevard	North of Cottonwood Avenue	67.8	68.0	0.1	No

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
76	Perris Boulevard	South of Cottonwood Avenue	67.3	67.6	0.3	No
77	Perris Boulevard	North of Alessandro Boulevard	66.8	67.2	0.4	No
78	Perris Boulevard	South of Alessandro Boulevard	66.9	67.5	0.6	No
79	Perris Boulevard	North of Cactus Avenue	66.6	67.2	0.7	No
80	Perris Boulevard	South of Cactus Avenue	67.5	68.3	0.9	No
81	Perris Boulevard	North of John F. Kennedy Drive	66.9	67.9	1.0	No
82	Perris Boulevard	South of John F. Kennedy Drive	67.8	68.8	1.1	No
83	Perris Boulevard	North of Gentian Avenue	67.1	68.3	1.2	No
84	Perris Boulevard	Gentian Avenue to Driveway 3	67.1	68.3	1.2	No
85	Perris Boulevard	Driveway 3 to Driveway 4	67.1	68.0	0.9	No
86	Perris Boulevard	Driveway 4 to Santiago Drive	67.1	67.9	0.8	No
87	Perris Boulevard	Santiago Drive to Iris Avenue	66.9	67.9	1.0	No
88	Perris Boulevard	South of Iris Avenue	67.1	67.6	0.5	No
89	Perris Boulevard	North of Krameria Avenue	66.7	67.3	0.6	No
90	Perris Boulevard	South of Krameria Avenue	67.0	67.4	0.5	No
91	Perris Boulevard	North of San Michele Road	67.3	67.7	0.4	No
92	Perris Boulevard	San Michele Road to Nandina Avenue	67.1	67.5	0.4	No
93	Perris Boulevard	South of Nandina Avenue	67.0	67.4	0.4	No
94	Perris Boulevard	North of Harley Knox Boulevard	64.2	64.6	0.4	No
95	Perris Boulevard	South of Harley Knox Boulevard	63.8	64.0	0.2	No
96	Perris Boulevard	North of Ramona Expressway	65.6	65.9	0.3	No
97	Perris Boulevard	South of Ramona Expressway	66.6	66.7	0.1	No
98	Kitching Street	North of Cactus Avenue	62.2	62.4	0.1	No
99	Kitching Street	South of Cactus Avenue	59.5	59.8	0.3	No
100	Kitching Street	North of John F. Kennedy Drive	59.1	59.4	0.3	No
101	Kitching Street	South of John F. Kennedy Drive	59.9	60.0	0.1	No
102	Kitching Street	North of Iris Avenue	62.0	62.0	0.1	No
103	Kitching Street	South of Iris Avenue	60.5	60.6	0.1	No
104	Lasselle Street	North of Iris Avenue	66.9	66.9	0.0	No
105	Lasselle Street	South of Iris Avenue	68.5	68.5	0.0	No

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TABLE 7-8: YEAR 2018 OFF-SITE PROJECT RELATED TRAFFIC NOISE IMPACTS

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	67.5	67.6	0.0	No
2	Eucalyptus Avenue	East of Perris Boulevard	59.8	59.9	0.1	No
3	Cottonwood Avenue	West of Indian Street	62.4	62.4	0.1	No
4	Cottonwood Avenue	East of Indian Street	61.4	61.6	0.2	No
5	Cottonwood Avenue	West of Perris Boulevard	61.3	61.6	0.3	No
6	Cottonwood Avenue	East of Perris Boulevard	60.4	60.5	0.1	No
7	Alessandro Boulevard	West of Heacock Street	70.1	70.1	0.1	No
8	Alessandro Boulevard	East of Heacock Street	69.8	69.9	0.1	No
9	Alessandro Boulevard	West of Indian Street	69.4	69.5	0.1	No
10	Alessandro Boulevard	East of Indian Street	69.3	69.4	0.1	No
11	Alessandro Boulevard	West of Perris Boulevard	69.1	69.3	0.1	No
12	Alessandro Boulevard	East of Perris Boulevard	67.7	67.8	0.1	No
13	Cactus Avenue	West of I-215 Freeway	68.7	68.7	0.0	No
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	70.6	70.6	0.0	No
15	Cactus Avenue	East of I-215 NB Ramps	71.3	71.3	0.0	No
16	Cactus Avenue	West of Elsworth Street	71.8	71.9	0.0	No
17	Cactus Avenue	East of Elsworth Street	72.3	72.3	0.0	No
18	Cactus Avenue	West of Frederick Street	72.4	72.5	0.0	No
19	Cactus Avenue	East of Frederick Street	72.5	72.5	0.0	No
20	Cactus Avenue	West of Graham Street	72.3	72.4	0.0	No
21	Cactus Avenue	East of Graham Street	71.3	71.4	0.0	No
22	Cactus Avenue	West of Heacock Street	70.9	70.9	0.1	No
23	Cactus Avenue	East of Heacock Street	68.7	68.8	0.1	No
24	Cactus Avenue	West of Indian Street	68.3	68.4	0.1	No
25	Cactus Avenue	East of Indian Street	67.9	68.0	0.1	No
26	Cactus Avenue	West of Perris Boulevard	67.4	67.5	0.2	No
27	Cactus Avenue	East of Perris Boulevard	67.2	67.3	0.1	No
28	Cactus Avenue	East of Kitching Street	66.1	66.2	0.1	No
29	John F. Kennedy Drive	West of Heacock Street	64.0	64.0	0.0	No
30	John F. Kennedy Drive	East of Heacock Street	64.7	64.7	0.0	No
31	John F. Kennedy Drive	West of Indian Street	64.6	64.7	0.1	No
32	John F. Kennedy Drive	East of Indian Street	64.7	64.8	0.1	No
33	John F. Kennedy Drive	West of Perris Boulevard	64.9	65.0	0.1	No
34	John F. Kennedy Drive	East of Perris Boulevard	65.1	65.4	0.3	No
35	John F. Kennedy Drive	West of Kitching Street	64.7	65.1	0.4	No
36	John F. Kennedy Drive	East of Kitching Street	63.4	63.5	0.1	No
37	Gentian Avenue	West of Indian Street	54.8	55.0	0.2	No

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
38	Gentian Avenue	East of Perris Boulevard	55.0	55.3	0.3	No
39	Santiago Drive	East of Perris Boulevard	55.7	55.9	0.3	No
40	Iris Avenue	West of Indian Street	61.1	61.2	0.1	No
41	Iris Avenue	East of Indian Street	65.7	65.8	0.1	No
42	Iris Avenue	West of Perris Boulevard	65.8	66.0	0.2	No
43	Iris Avenue	East of Perris Boulevard	66.7	67.0	0.3	No
44	Iris Avenue	West of Kitching Street	67.5	67.7	0.2	No
45	Iris Avenue	East of Kitching Street	68.5	68.7	0.2	No
46	Iris Avenue	West of Lasselle Street	68.0	68.2	0.2	No
47	Iris Avenue	East of Lasselle Street	68.7	68.8	0.1	No
48	Krameria Avenue	East of Indian Street	57.3	57.4	0.1	No
49	Krameria Avenue	West of Perris Boulevard	57.2	57.3	0.1	No
50	Krameria Avenue	East of Perris Boulevard	63.8	63.9	0.1	No
51	Harley Knox Boulevard	West of Webster Avenue	67.2	67.2	0.0	No
52	Harley Knox Boulevard	East of Webster Avenue	67.2	67.2	0.1	No
53	Harley Knox Boulevard	West of Indian Street	69.2	69.3	0.1	No
54	Harley Knox Boulevard	East of Indian Street	65.3	65.5	0.2	No
55	Harley Knox Boulevard	West of Perris Boulevard	63.0	63.2	0.2	No
56	Ramona Expressway	West of Perris Boulevard	70.8	70.8	0.0	No
57	Ramona Expressway	East of Perris Boulevard	70.4	70.5	0.0	No
58	Frederick Street	North of Cactus Avenue	64.9	64.9	0.1	No
59	Heacock Street	North of Alessandro Boulevard	66.5	66.6	0.1	No
60	Heacock Street	North of Cactus Avenue	65.2	65.3	0.0	No
61	Indian Street	North of Cottonwood Avenue	60.1	60.2	0.1	No
62	Indian Street	North of Alessandro Boulevard	64.9	65.0	0.1	No
63	Indian Street	North of Cactus Avenue	65.2	65.3	0.1	No
64	Indian Street	South of John F. Kennedy Drive	63.9	64.0	0.1	No
65	Indian Street	North of Gentian Avenue	59.2	59.3	0.1	No
66	Indian Street	South of Iris Avenue	57.8	58.0	0.2	No
67	Indian Street	North of Krameria Avenue	58.2	58.4	0.1	No
68	Indian Street	South of Krameria Avenue	56.0	56.1	0.1	No
69	Indian Street	South of Harley Knox Boulevard	63.1	63.2	0.1	No
70	Perris Boulevard	North of SR-60 WB Ramps	70.4	70.5	0.0	No
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	70.9	71.0	0.0	No
72	Perris Boulevard	South of Sunnymead Boulevard	68.8	68.8	0.1	No
73	Perris Boulevard	North of Eucalyptus Avenue	68.1	68.2	0.1	No
74	Perris Boulevard	South of Eucalyptus Avenue	67.9	68.0	0.1	No
75	Perris Boulevard	North of Cottonwood Avenue	68.6	68.7	0.1	No

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
76	Perris Boulevard	South of Cottonwood Avenue	68.1	68.4	0.3	No
77	Perris Boulevard	North of Alessandro Boulevard	67.8	68.1	0.3	No
78	Perris Boulevard	South of Alessandro Boulevard	67.8	68.3	0.5	No
79	Perris Boulevard	North of Cactus Avenue	67.5	68.0	0.5	No
80	Perris Boulevard	South of Cactus Avenue	68.5	69.2	0.7	No
81	Perris Boulevard	North of John F. Kennedy Drive	68.0	68.8	0.8	No
82	Perris Boulevard	South of John F. Kennedy Drive	68.8	69.7	0.9	No
83	Perris Boulevard	North of Gentian Avenue	68.3	69.2	1.0	No
84	Perris Boulevard	Gentian Avenue to Driveway 3	68.2	69.2	0.9	No
85	Perris Boulevard	Driveway 3 to Driveway 4	68.2	68.9	0.7	No
86	Perris Boulevard	Driveway 4 to Santiago Drive	68.2	68.9	0.7	No
87	Perris Boulevard	Santiago Drive to Iris Avenue	68.1	68.9	0.8	No
88	Perris Boulevard	South of Iris Avenue	68.2	68.6	0.4	No
89	Perris Boulevard	North of Krameria Avenue	67.9	68.4	0.4	No
90	Perris Boulevard	South of Krameria Avenue	68.1	68.5	0.4	No
91	Perris Boulevard	North of San Michele Road	68.4	68.7	0.3	No
92	Perris Boulevard	San Michele Road to Nandina Avenue	68.3	68.6	0.3	No
93	Perris Boulevard	South of Nandina Avenue	69.3	69.6	0.2	No
94	Perris Boulevard	North of Harley Knox Boulevard	66.9	67.1	0.2	No
95	Perris Boulevard	South of Harley Knox Boulevard	66.2	66.3	0.1	No
96	Perris Boulevard	North of Ramona Expressway	68.1	68.3	0.2	No
97	Perris Boulevard	South of Ramona Expressway	69.1	69.2	0.0	No
98	Kitching Street	North of Cactus Avenue	63.2	63.3	0.1	No
99	Kitching Street	South of Cactus Avenue	60.4	60.6	0.2	No
100	Kitching Street	North of John F. Kennedy Drive	60.1	60.4	0.2	No
101	Kitching Street	South of John F. Kennedy Drive	60.7	60.8	0.1	No
102	Kitching Street	North of Iris Avenue	63.0	63.0	0.1	No
103	Kitching Street	South of Iris Avenue	61.7	61.8	0.0	No
104	Lasselle Street	North of Iris Avenue	67.3	67.4	0.0	No
105	Lasselle Street	South of Iris Avenue	68.7	68.8	0.0	No

TABLE 7-9: YEAR 2035 OFF-SITE PROJECT RELATED TRAFFIC NOISE IMPACTS

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
1	Sunnymead Boulevard	Perris Boulevard to SR-60 EB On-Ramp	68.9	68.9	0.0	No
2	Eucalyptus Avenue	East of Perris Boulevard	62.4	62.5	0.0	No
3	Cottonwood Avenue	West of Indian Street	64.0	64.0	0.1	No
4	Cottonwood Avenue	East of Indian Street	63.2	63.2	0.0	No
5	Cottonwood Avenue	West of Perris Boulevard	65.0	65.0	0.0	No
6	Cottonwood Avenue	East of Perris Boulevard	63.2	63.3	0.0	No
7	Alessandro Boulevard	West of Heacock Street	72.4	72.4	0.0	No
8	Alessandro Boulevard	East of Heacock Street	71.9	71.9	0.0	No
9	Alessandro Boulevard	West of Indian Street	71.7	71.7	0.0	No
10	Alessandro Boulevard	East of Indian Street	71.4	71.4	0.0	No
11	Alessandro Boulevard	West of Perris Boulevard	71.4	71.4	0.0	No
12	Alessandro Boulevard	East of Perris Boulevard	70.9	70.9	0.0	No
13	Cactus Avenue	West of I-215 Freeway	70.5	70.5	0.0	No
14	Cactus Avenue	I-215 SB Ramps to I-215 NB Ramps	71.0	71.0	0.0	No
15	Cactus Avenue	East of I-215 NB Ramps	72.4	72.4	0.0	No
16	Cactus Avenue	West of Elsworth Street	72.3	72.3	0.0	No
17	Cactus Avenue	East of Elsworth Street	72.7	72.7	0.0	No
18	Cactus Avenue	West of Frederick Street	72.8	72.9	0.0	No
19	Cactus Avenue	East of Frederick Street	73.0	73.0	0.0	No
20	Cactus Avenue	West of Graham Street	72.8	72.8	0.0	No
21	Cactus Avenue	East of Graham Street	72.4	72.5	0.0	No
22	Cactus Avenue	West of Heacock Street	72.1	72.1	0.0	No
23	Cactus Avenue	East of Heacock Street	70.6	70.6	0.1	No
24	Cactus Avenue	West of Indian Street	70.2	70.2	0.1	No
25	Cactus Avenue	East of Indian Street	70.2	70.2	0.0	No
26	Cactus Avenue	West of Perris Boulevard	69.9	69.9	0.0	No
27	Cactus Avenue	East of Perris Boulevard	69.3	69.3	0.0	No
28	Cactus Avenue	East of Kitching Street	68.2	68.3	0.1	No
29	John F. Kennedy Drive	West of Heacock Street	66.3	66.3	0.0	No
30	John F. Kennedy Drive	East of Heacock Street	66.0	66.1	0.1	No
31	John F. Kennedy Drive	West of Indian Street	67.2	67.3	0.1	No
32	John F. Kennedy Drive	East of Indian Street	67.5	67.5	0.0	No
33	John F. Kennedy Drive	West of Perris Boulevard	68.4	68.4	0.0	No
34	John F. Kennedy Drive	East of Perris Boulevard	69.0	69.2	0.2	No
35	John F. Kennedy Drive	West of Kitching Street	68.9	69.0	0.2	No
36	John F. Kennedy Drive	East of Kitching Street	68.5	68.5	0.0	No
37	Gentian Avenue	West of Indian Street	56.8	57.2	0.4	No

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
38	Gentian Avenue	East of Perris Boulevard	59.4	59.5	0.1	No
39	Santiago Drive	East of Perris Boulevard	59.1	59.3	0.1	No
40	Iris Avenue	West of Indian Street	62.7	62.7	0.0	No
41	Iris Avenue	East of Indian Street	67.4	67.4	0.0	No
42	Iris Avenue	West of Perris Boulevard	68.5	68.5	0.0	No
43	Iris Avenue	East of Perris Boulevard	68.5	68.7	0.2	No
44	Iris Avenue	West of Kitching Street	69.2	69.3	0.1	No
45	Iris Avenue	East of Kitching Street	71.1	71.2	0.1	No
46	Iris Avenue	West of Lasselle Street	70.8	70.9	0.1	No
47	Iris Avenue	East of Lasselle Street	71.4	71.4	0.0	No
48	Krameria Avenue	East of Indian Street	61.0	61.1	0.1	No
49	Krameria Avenue	West of Perris Boulevard	61.7	61.7	0.0	No
50	Krameria Avenue	East of Perris Boulevard	66.4	66.5	0.1	No
51	Harley Knox Boulevard	West of Webster Avenue	67.9	67.9	0.0	No
52	Harley Knox Boulevard	East of Webster Avenue	67.9	68.0	0.1	No
53	Harley Knox Boulevard	West of Indian Street	69.9	69.9	0.1	No
54	Harley Knox Boulevard	East of Indian Street	69.6	69.7	0.0	No
55	Harley Knox Boulevard	West of Perris Boulevard	66.7	66.7	0.0	No
56	Ramona Expressway	West of Perris Boulevard	71.4	71.4	0.0	No
57	Ramona Expressway	East of Perris Boulevard	71.6	71.6	0.0	No
58	Frederick Street	North of Cactus Avenue	65.3	65.3	0.1	No
59	Heacock Street	North of Alessandro Boulevard	66.9	67.0	0.1	No
60	Heacock Street	North of Cactus Avenue	66.8	66.9	0.1	No
61	Indian Street	North of Cottonwood Avenue	61.7	61.7	0.1	No
62	Indian Street	North of Alessandro Boulevard	66.0	66.2	0.2	No
63	Indian Street	North of Cactus Avenue	66.8	67.0	0.3	No
64	Indian Street	South of John F. Kennedy Drive	65.1	65.8	0.7	No
65	Indian Street	North of Gentian Avenue	61.2	62.0	0.8	No
66	Indian Street	South of Iris Avenue	60.4	60.8	0.3	No
67	Indian Street	North of Krameria Avenue	61.7	61.9	0.3	No
68	Indian Street	South of Krameria Avenue	63.3	63.4	0.2	No
69	Indian Street	South of Harley Knox Boulevard	69.0	69.0	0.0	No
70	Perris Boulevard	North of SR-60 WB Ramps	72.4	72.4	0.0	No
71	Perris Boulevard	SR-60 WB Ramps to Sunnymead Blvd.	71.3	71.3	0.0	No
72	Perris Boulevard	South of Sunnymead Boulevard	71.0	71.0	0.0	No
73	Perris Boulevard	North of Eucalyptus Avenue	70.9	70.9	0.0	No
74	Perris Boulevard	South of Eucalyptus Avenue	71.4	71.5	0.0	No
75	Perris Boulevard	North of Cottonwood Avenue	71.2	71.3	0.0	No

ID	Road	Segment	CNEL at 100 Feet (dBA)			Potential Significant Impact?
			No Project	With Project	Project Addition	
76	Perris Boulevard	South of Cottonwood Avenue	70.8	70.9	0.1	No
77	Perris Boulevard	North of Alessandro Boulevard	71.0	71.1	0.1	No
78	Perris Boulevard	South of Alessandro Boulevard	71.0	71.1	0.1	No
79	Perris Boulevard	North of Cactus Avenue	70.6	70.7	0.1	No
80	Perris Boulevard	South of Cactus Avenue	71.9	72.0	0.1	No
81	Perris Boulevard	North of John F. Kennedy Drive	71.6	71.7	0.1	No
82	Perris Boulevard	South of John F. Kennedy Drive	72.2	72.4	0.2	No
83	Perris Boulevard	North of Gentian Avenue	71.9	72.2	0.2	No
84	Perris Boulevard	Gentian Avenue to Driveway 3	71.8	72.1	0.3	No
85	Perris Boulevard	Driveway 3 to Driveway 4	71.8	72.0	0.3	No
86	Perris Boulevard	Driveway 4 to Santiago Drive	71.8	72.0	0.3	No
87	Perris Boulevard	Santiago Drive to Iris Avenue	72.1	72.3	0.3	No
88	Perris Boulevard	South of Iris Avenue	71.8	71.9	0.1	No
89	Perris Boulevard	North of Krameria Avenue	72.0	72.2	0.1	No
90	Perris Boulevard	South of Krameria Avenue	72.0	72.2	0.1	No
91	Perris Boulevard	North of San Michele Road	72.0	72.1	0.1	No
92	Perris Boulevard	San Michele Road to Nandina Avenue	72.4	72.5	0.1	No
93	Perris Boulevard	South of Nandina Avenue	72.3	72.4	0.1	No
94	Perris Boulevard	North of Harley Knox Boulevard	69.2	69.3	0.1	No
95	Perris Boulevard	South of Harley Knox Boulevard	68.1	68.2	0.1	No
96	Perris Boulevard	North of Ramona Expressway	70.3	70.3	0.1	No
97	Perris Boulevard	South of Ramona Expressway	70.0	70.0	0.0	No
98	Kitching Street	North of Cactus Avenue	66.6	66.7	0.1	No
99	Kitching Street	South of Cactus Avenue	63.1	63.2	0.1	No
100	Kitching Street	North of John F. Kennedy Drive	63.6	63.7	0.1	No
101	Kitching Street	South of John F. Kennedy Drive	63.3	63.3	0.0	No
102	Kitching Street	North of Iris Avenue	66.3	66.3	0.0	No
103	Kitching Street	South of Iris Avenue	65.6	65.7	0.0	No
104	Lasselle Street	North of Iris Avenue	68.9	69.0	0.0	No
105	Lasselle Street	South of Iris Avenue	69.7	69.7	0.0	No

7.2 EXISTING PROJECT TRAFFIC NOISE LEVEL CONTRIBUTIONS

Table 7-7 presents a comparison of the existing without and with Project conditions CNEL noise levels. From this we can see that the unmitigated exterior noise levels are expected to range from 53.6 to 70.2 dBA CNEL. Existing with Project noise level contours are expected to range from 54.0 to 70.3 dBA CNEL. Overall the Project is expected to generate an unmitigated maximum exterior noise level increase of up to 1.2 dBA CNEL. In no instances would Project vehicular-source noise result in or cause noise levels along potentially affected roadway segments to transition from an acceptable ambient noise environment (<65 dBA CNEL) to a noise environment greater than 65 dBA CNEL.

7.3 YEAR 2018 PROJECT TRAFFIC NOISE LEVEL CONTRIBUTIONS

Table 7-8 presents a comparison of the Year 2018 without and with Project conditions CNEL noise levels. Table 7-3 shows that the unmitigated exterior noise levels are expected to range from 54.8 to 72.5 dBA CNEL. Table 7-4 presents the Year 2018 with Project conditions noise level contours that are expected to range from 55.0 to 72.5 dBA CNEL. As shown on Table 7-8 the Project is expected to generate an unmitigated exterior noise level increase of up to 1.0 dBA CNEL. In no instances would the Project generate perceptible (3.0 dBA or greater) vehicular-source noise that would result in or cause noise levels along potentially affected roadway segments to transition from an acceptable ambient noise environment (<65 dBA CNEL) to a noise environment greater than 65 dBA CNEL.

7.4 YEAR 2035 PROJECT TRAFFIC NOISE LEVEL CONTRIBUTIONS

Table 7-9 presents a comparison of the Year 2035 without and with Project conditions CNEL noise levels. Table 7-5 shows that the unmitigated exterior noise levels are expected to range from 56.8 to 73.0 dBA CNEL. Table 7-6 presents the Year 2035 with Project conditions noise level contours that are expected to range from 57.2 to 73.0 dBA CNEL. As shown on Table 7-9 the Project is expected to generate an unmitigated exterior noise level increase of up to 0.8 dBA CNEL. In no instances would the Project generate perceptible vehicular-source noise that would result in or cause noise levels along potentially affected roadway segments to transition from an acceptable ambient noise environment (<65 dBA CNEL) to a noise environment greater than 65 dBA CNEL.

7.5 PROJECT TRAFFIC NOISE IMPACTS

The off-site traffic noise analysis shows that the Project will create noise level increases of up to 1.2 dBA CNEL for Existing with Project conditions. This increase is expected to decrease to 1.0 dBA CNEL by Year 2018 conditions and to 0.8 dBA CNEL by Year 2035 conditions. Generally, the Project's incremental traffic-related noise level increases at land uses adjacent to roadways conveying Project traffic will diminish over time. This occurs as the background traffic on the study area roadway segments increases and the Project represents a smaller percentage of the overall traffic volume. This analysis shows that the Project will not create a substantial permanent increase in traffic-related noise levels or expose persons to noise levels in excess of the exterior noise level standards, and therefore, no off-site traffic noise mitigation is required.

In no instances would the Project generate perceptible vehicular-source noise that would result in or cause noise levels along potentially affected roadway segments to transition from an acceptable ambient noise environment (<65 dBA CNEL) to a noise environment greater than 65 dBA CNEL. On this basis, Project vehicular-source noise would not result in exposure of persons to, or generation of, noise levels in excess of standards established in the City's General Plan, and potential impacts in this regard would be less-than-significant.

8 SENSITIVE RECEPTORS

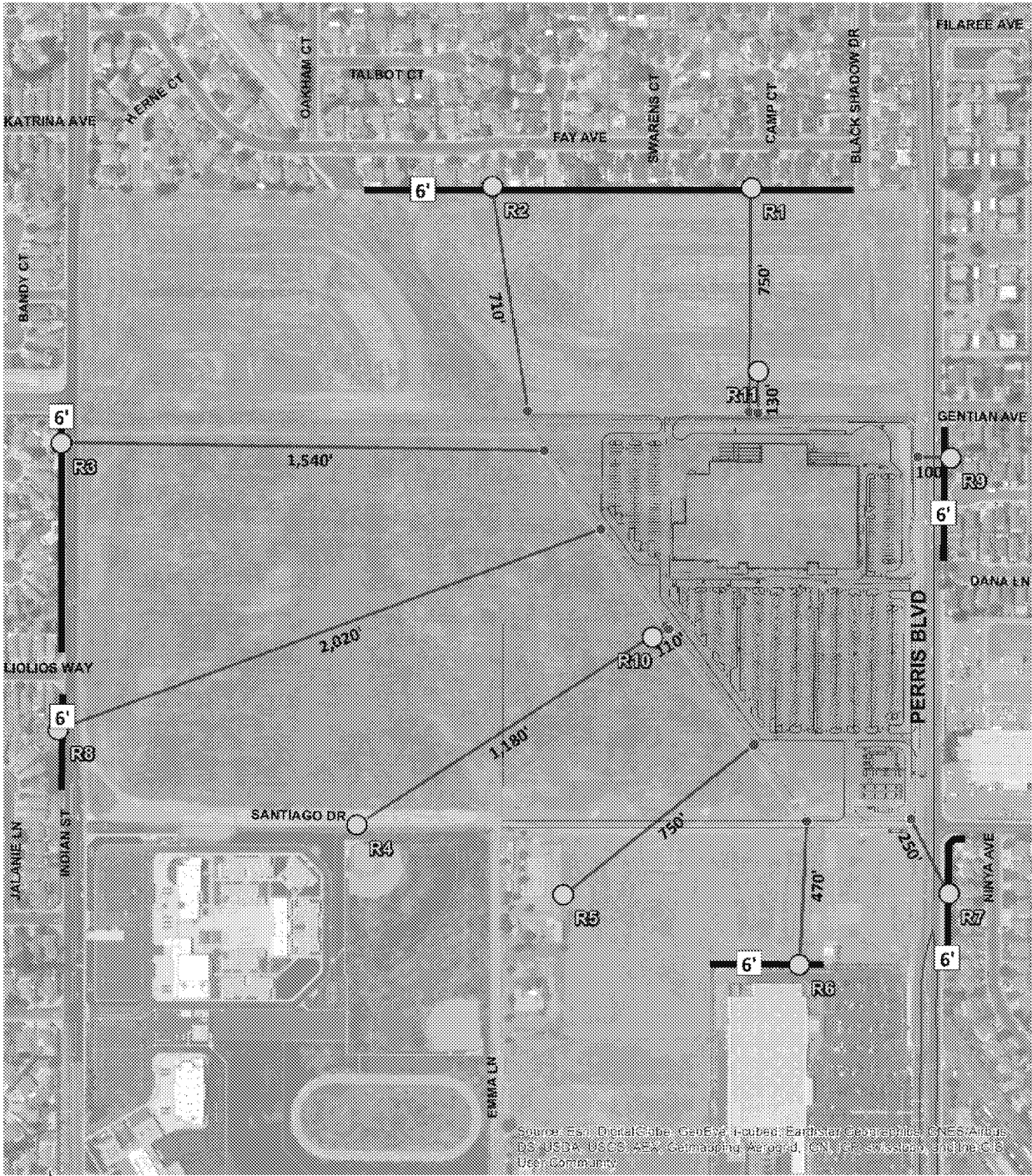
To assess the long-term operational and short-term construction noise impacts, the following eleven sensitive receptor locations as shown on Exhibit 8-A were identified. Sensitive receptors are generally defined as locations where people reside or where the presence of unwanted sound could otherwise adversely affect the use of the land. Noise sensitive land uses are generally considered to include: schools, hospitals, single-family dwellings, mobile home parks, churches, libraries, and recreation areas. Moderately noise-sensitive land uses typically include: multi-family dwellings, hotels, motels, dormitories, out-patient clinics, cemeteries, golf courses, country clubs, athletic/tennis clubs, and equestrian clubs. Land uses which are considered relatively insensitive to noise include business, commercial, and professional developments. Land uses that are typically not affected by noise include: industrial, manufacturing, utilities, agriculture, natural open space, undeveloped land, parking lots, warehousing, liquid and solid waste facilities, salvage yards, and transit terminals.

Sensitive receptors in the vicinity of the Project site include the existing single-family residential development tracts located at receptor locations R1 to R3, R5, and R7 to R9. Future residential development in the Project study area is represented by receptor locations R10 and R11. The closest noise-sensitive receptor is represented by location R9 where an existing single-family residential dwelling is located east of the Project site across Perris Boulevard.

- R1: Located approximately 750 feet north of the Project site, R1 represents the existing single-family residential dwellings along Fay Avenue.
- R2: Location R2 represents the existing single-family residential dwellings along Fay Avenue located roughly 710 feet north of the Project Site. A long-term noise level measurement was taken at this location, LT-3, to describe the existing ambient noise environment.
- R3: Location R3 represents the existing single-family residential dwellings situated approximately 1,540 feet west of the Project site. A long-term noise level measurement was taken at this location, LT-5, to describe the existing ambient noise environment.
- R4: Location R4 represents March Middle School located approximately 1,180 feet southwest of the Project site. Long-term noise level measurement Lt-4 is used to describe the existing ambient noise conditions at this location.
- R5: At a distance of approximately 750 feet southwest of the Project site, location R5 represents the existing single-family residential dwelling along Emma Lane.
- R6: At a distance of 470 feet south of the Project site, R6 describes the existing Home Depot located west of Perris Boulevard and north of Iris Avenue.
- R7: Location R7 represents the single-family land use located approximately 250 feet southeast of the Project site. Long-term measurement location LT-1 is used to describe the existing ambient noise conditions at this location.
- R8: Located approximately 2,020 feet west of the Project site, R8 represents the existing single family residential homes on Indian Street.
- R9: Location R9 represents the existing single-family residential dwellings across Perris Boulevard approximately 100 feet east of the Project site.

- R10: Located approximately 110 feet southwest of the Project site, R10 represents the future development of single family residential tract homes on an existing vacant lot.
- R11: Location R11 represents the future development of single family residential tract homes on an existing vacant lot, located approximately 130 feet north of the Project site.

EXHIBIT 8-A: NOISE RECEPTOR LOCATIONS



LEGEND:

- Noise Receiver Locations
- Distance from noise receiver to Project site boundary (in feet).
- 6' Noise Barrier Height (in feet)
- Existing Barrier Location

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9 OPERATIONAL NOISE IMPACTS

This section analyzes the potential operational noise impacts resulting from the development of the proposed Moreno Valley Walmart. Using a stationary-source noise prediction model, calculations of the Project operational noise level impacts were completed.

9.1 OPERATIONAL NOISE STANDARDS

The Noise Ordinance included in the City of Moreno Valley Municipal Code provides performance standards and noise control guidelines for determining and mitigating non-transportation or stationary/area noise source impacts from operations at private properties. The maximum allowable stationary/area-source noise levels are regulated pursuant to the City of Moreno Valley Municipal Code, Chapter 11.80 Noise Regulation (Sections 11.80.010 through 11.80.060). The City of Moreno Valley Noise Ordinance is included in Appendix 3.3.

To conform with applicable provisions of the Municipal Code, the maximum allowable noise generated by area/stationary sources when measured at 200 feet from any property line, shall not exceed 65dBA Leq during daytime hours (8:00 a.m. to 10:00 p.m. the same day); and shall not exceed 60 dBA Leq during nighttime hours (10:01 p.m. to 7:59 a.m. the following day).

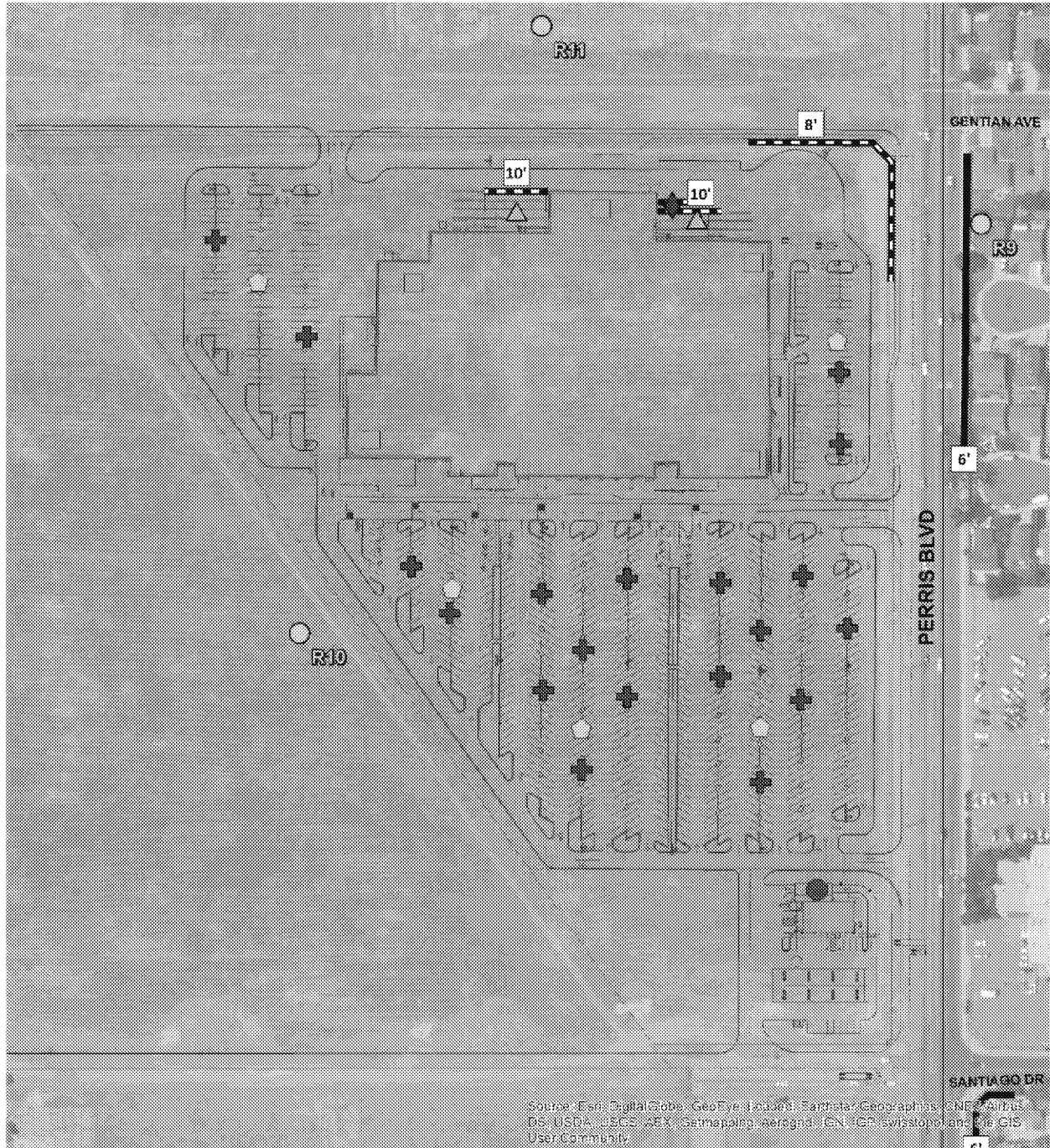
9.2 OPERATIONAL NOISE SOURCES

The operational noise impacts associated with the proposed Project are expected to include loading docks, trash compactors, roof-top air condenser units, shopping cart carousels, parking lot, and car wash activities as indicated on Exhibit 9-A. The proposed Project design features which include an 8-foot high barrier at the northeast corner of the Project site and 10-foot high barriers at the trash compactor and truck loading areas are shown on Exhibit 9-A. Exhibit 8-A identifies the location of the eleven noise receptor locations used to assess the operational noise level impacts, as well as the existing barrier locations. Noise sensitive receptor locations R10 and R11 represent the residential neighborhoods planned north and west of the Project site.

9.3 REFERENCE NOISE LEVELS

To estimate the Project operational noise impacts, reference noise level measurements were collected from similar types of activities to represent the noise levels expected with the development of the proposed Project. This section provides a detailed description of the reference noise level measurements shown on Table 9-1 used to estimate the Project operational noise impacts. It is important to note that the following projected noise levels assume the worst-case noise environment with the loading docks, trash compactors, roof-top air condenser units, shopping cart carousels, parking lot and car wash activities all operating simultaneously. In reality, these noise level impacts will vary throughout the day.

EXHIBIT 9-A: OPERATIONAL NOISE SOURCE LOCATIONS



LEGEND:



- | | | |
|-----------------------|------------------------|--------------------------------|
| Air Conditioning Unit | Shopping Cart Carousel | Noise Receiver Locations |
| Loading Dock | Car Wash | Noise Barrier Height (in feet) |
| Parking Lot | Trash Compactor | Proposed Barrier Location |
| | | Existing Barrier Location |

TABLE 9-1: REFERENCE NOISE LEVEL MEASUREMENTS

Noise Source	Duration (mm:ss)	Distance From Source (Feet)	Noise Source Height (Feet)	Hourly Activity (Minutes) ⁶	Hourly (Leq dBA)
Loading Dock Activities ¹	1:00	20'	8'	18	77.3
Trash Compactor ²	2:22	5'	5'	20	75.5
Air Condenser ³	1:00	5'	25'	30	81.9
Shopping Cart Carousel ⁴	0:16	5'	3'	20	72.9
Parking Lot Activity ⁴	15:00	5'	4'	60	60.1
Car Wash ⁵	8:43	10'	9'	30	76.5

¹ As measured at the Huntington Beach Walmart by Urban Crossroads, Inc. on 4/14/2011.

² As measured at the Irvine Walmart Supercenter located on 16555 Von Karman Avenue by Urban Crossroads, Inc. on 1/23/2014.

³ As measured by Urban Crossroads, Inc. on 10/13/2010 at the Rancho Cordova Walmart #2457.

⁴ As measured by Urban Crossroads, Inc. on 5/30/2012 at the Laguna Niguel Walmart located at 27470 Alicia Parkway.

⁵ As measured by Urban Crossroads, Inc. on 11/8/2013 at the Plano Trabuco Shell Gas Station Car Wash.

⁶ Duration (minutes within the hour) of noise activity during peak hourly conditions.

9.3.1 LOADING DOCKS

As part of its operations, the proposed Moreno Valley Walmart will include truck doors and loading facilities at the rear of the store. Loading docks will be located along the store's northerly (rear) elevation to accommodate truck and vendor deliveries. Truck deliveries may occur 24 hours per day, and would consist of both semi-trucks (larger deliveries would be accomplished by way of 3+ axle tractor-trailer combinations with trailers up to 53 feet in length), and small to medium size (two-axle) trucks.

It is expected that the loading docks would be constructed to allow trailers to seal to the docks, thereby directing the unloading noise into the store, rather than onto neighboring uses. The loading dock areas would also be screened by a proposed 10-foot high wall as shown in Exhibit 9-A. In order to evaluate the noise impacts associated with the delivery truck tractor trailer unloading/loading activities, reference noise level measurements were taken at the Huntington Beach Walmart located at the southwest corner of Goldenwest Street and Edinger Avenue by Urban Crossroads Inc. on April 14th, 2011.

The primary noise generated by tractor trailer unloading is the noise of the truck arriving, backing into the dock area, detaching the cab, attaching the cab to the empty trailer, and exiting the loading dock. Because the trailer seals to the loading dock, employees unload the tractor trailer from the inside of the store. The receiving crew places a 20' long rolling conveyor assembly inside the trailer to roll merchandise (on pallets or in boxes) into the store. The unmitigated noise level was measured at 77.3 dBA Leq at a distance of 20 feet from the tractor trailer. Delivery truck delivery activities will last an average of 3–6 minutes per truck, depending on whether or not the loading bay is empty at the time of arrival. In the event idling does occur, idling time would be limited to no more than 5 minutes under California State law (Cal Code Regs. 2485). Delivery trucks are generally equipped with an engine shutdown system that automatically turns off the engine after 5 minutes of idling. In order to analyze a worst-case condition for noise impacts related to delivery, it is assumed that there would be a

maximum of three delivery trucks coming to the loading docks and completing delivery activities within a 1-hour period for both daytime and nighttime hours. For the purpose of this noise analysis, a maximum average delivery time of 6 minutes per delivery is used for a total of 18 minutes of activity during the peak noise hour.

9.3.2 TRASH COMPACTORS

In order to assess the impacts created by the trash compactors planned on the Project site, reference noise levels were gathered from the Irvine Walmart Supercenter located on 16555 Von Karman Avenue, by Urban Crossroads Inc. on Thursday, January 23rd, 2014. The unmitigated exterior noise levels were measured at 75.5 dBA Leq at a distance of 5 feet from the compactor. A review of the site plan shows a proposed trash compactor located behind the planned 10-foot high screen wall. It is expected the trash compactor will operate for a maximum of 20 minutes during typical hourly daytime and nighttime conditions.

9.3.3 AIR CONDENSER UNITS

In order to assess the impacts created by the roof-top air conditioning units at the planned Project site, reference noise levels measurements were taken at the Rancho Cordova Walmart on October 13th, 2010. Located at 10655 Folsom Boulevard in the City of Rancho Cordova, the noise level measurements describe a cluster of mechanical rooftop condensers. The cluster consists of two Krack MXE-04 4-fan units and one MXE-02 2-fan unit. At a distance of 5 feet for the cluster of rooftop condensers, the exterior noise levels were measured at 81.9 dBA Leq. For the purpose of this noise analysis, the air condenser units were observed to be located on the roof at a noise elevation of 25 feet and are estimated to operate for approximately 30 minutes during typical daytime and nighttime conditions. The potential noise attenuation provided by a parapet wall was not included as part of this analysis.

9.3.4 SHOPPING CART CAROUSEL (METAL CARTS)

To evaluate the noise level impacts from shopping carts placed by customers into assigned shopping cart areas, Urban Crossroads collected noise level measurements at the Laguna Niguel Walmart located at 27470 Alicia Parkway on May 30th, 2012. At a distance of 5 feet from the noise source, the noise associated with the placement of the shopping carts into the carousel was measured at 72.9 dBA Leq. The noise impacts are mainly due to the metal shopping carts crashing into other carts already placed in the carousel as well as striking the side rails. This noise impact analysis includes the noise level impacts associated with the adjacent shopping cart carousels with noise impacts expected for approximately 20 minutes an hour for the typical daytime and nighttime conditions.

9.3.5 PARKING LOT ACTIVITY

To determine the noise level impacts associated with parking lot noise, Urban Crossroads collected reference noise level measurements at the at the Laguna Niguel Walmart located at 27470 Alicia Parkway on May 30th, 2012. The fifteen minute noise level measurement indicates that the parking lot activity generates a noise level of 60.1 dBA Leq at a distance of 5 feet. The parking lot noise levels are mainly due to cars pulling in and out of spaces, car alarms sounding,

and customers moving shopping carts. Noise associated with parking lot activity is expected during the typical daytime and nighttime conditions for the entire hour (60 minutes).

9.3.6 CAR WASH

To describe the potential noise level impacts associated with the planned car wash at the southeast corner of the Project site, a reference noise level measurement was collected on November 8th, 2013 at the Plano Trabuco Shell Gas Station car wash. The reference noise level measurement includes one complete car wash cycle. The high powered blowers that are used to dry the car at the end wash cycle represent the primary source of car wash noise. As shown on Table 9-1, at a distance of 10 feet from the exit tunnel and blowers, a reference noise level of 76.5 dBA Leq was measured. Noise associated with car wash activity is expected during the typical daytime and nighttime conditions for approximately 30 minutes an hour.

9.4 PROJECT OPERATIONAL NOISE LEVELS

Based upon the reference noise levels, it is possible to estimate the Project operational stationary/area source noise levels at a distance of 200 feet and at each of the eleven noise receptor locations. The operational noise level calculations shown on Tables 9-2 and 9-3 account for the distance attenuation provided due to geometric spreading, when sound from a localized stationary source (i.e., a point source) propagates uniformly outward in a spherical pattern. With geometric spreading, sound levels attenuate (or decrease) at a rate of 6 dB for each doubling of distance from a point source.

Table 9-2 presents the combined total operational noise level projections at a distance of 200 feet consistent with the City of Moreno Valley Municipal Code. Table 9-2 indicates that the unmitigated hourly noise levels for each noise source are expected to range from 28.1 dBA Leq for the Parking Lot activities to 52.1 dBA Leq for the Loading Dock Activities.

When combined with the existing ambient noise levels, the Project operational noise levels at a distance of 200 feet are estimated at 54.4 dBA Leq. The Project operational noise levels associated with the proposed Moreno Valley Walmart will not exceed the daytime and nighttime exterior noise level standards for commercial uses of 65 dBA Leq and 60 dBA Leq, respectively at a distance of 200 feet and, therefore, will be less than significant.

Table 9-3 presents the exterior noise levels including the barrier attenuation provided by the proposed 8-foot high barrier at the northeastern Project site boundary, the proposed 10-foot high barriers at the loading docks and trash compactor areas, and the existing noise barriers observed within the Project study area, as shown on Exhibit 9-A. Table 9-3 indicates that the hourly noise levels associated with the Moreno Valley Walmart at the eleven noise sensitive receptor locations are expected to range from 27.9 dBA Leq at receptor location R8 to 47.1 dBA Leq at receptor location R11. The operational noise level calculations are included in Appendix 9.1.

TABLE 9-2: OPERATIONAL NOISE LEVEL PROJECTIONS AT A DISTANCE OF 200 FEET

Noise Source	Reference Noise Level (dBA Leq)	Distance Attenuation at 200 feet (dBA Leq) ¹	Hourly Activity (Minutes) ²	Hourly Activity Adjustment (dBA Leq)	Calculated Noise Level (dBA Leq) at 200 feet
Loading Dock Activities	77.3	-20.0	18	-5.2	52.1
Trash Compactor	75.5	-32.0	20	-4.8	38.7
Air Condenser	81.9	-32.0	30	-3.0	46.8
Shopping Cart Carousel	72.9	-32.0	20	-4.8	36.1
Parking Lot Activity	60.1	-32.0	60	0.0	28.1
Car Wash Activity	76.5	-26.0	30	-3.0	47.5
Combined Total:					54.4

¹ Point (stationary) source drop off rate of 6 dBA per doubling of distance.² Duration (minutes within the hour) of noise activity during peak hourly conditions.**TABLE 9-3: OPERATIONAL NOISE LEVEL PROJECTIONS AT RECEPTOR LOCATIONS**

Noise Source	Noise Levels at Receptor Locations (dBA Leq) ¹										
	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11
Loading Dock Activities	34.3	31.5	26.1	33.7	34.7	28.6	29.7	25.4	41.2	42.0	43.0
Trash Compactor	20.8	16.9	11.8	19.4	20.7	15.1	16.0	11.2	26.7	27.0	24.4
Air Condenser	29.3	26.5	21.6	30.5	31.9	25.5	27.0	21.4	37.9	43.9	44.6
Shopping Cart Carousel	16.9	17.1	11.8	20.1	23.0	18.1	20.2	11.0	27.6	37.2	27.6
Parking Lot Activity	8.6	8.4	3.5	11.9	14.6	9.4	11.3	2.8	20.6	27.4	19.8
Car Wash Activity	23.0	21.5	19.3	29.3	32.9	30.9	34.2	19.9	28.6	35.6	31.7
Combined Noise Levels	35.9	33.2	28.3	36.6	38.3	33.8	36.3	27.9	43.3	47.0	47.1

¹ See Exhibit 8-A for the noise receptor locations. Appendix 9.1 for the stationary source noise analysis worksheets. Noise levels include the barrier attenuation provided by existing barriers at each receptor location and the proposed 8 and 10-foot barriers at the Project site.

9.5 PROJECT NOISE CONTRIBUTION

To describe the Project operational noise level contributions, the Project operational noise levels were combined with the existing ambient noise levels measurements. The difference between the combined Project and ambient noise levels describe the Project noise level contributions. Noise levels that would be experienced at area receptors when Project-source noise is added to ambient daytime and nighttime conditions are presented on Tables 9-4 and 9-5, respectively.

TABLE 9-4: DAYTIME (8:00 A.M. TO 10:00 P.M.) OPERATIONAL NOISE LEVELS

Receptor Location ¹	Total Project Operational Noise Level ²	Measurement Location ³	Reference Ambient Noise Levels ⁴	Combined Project and Ambient ⁵	Project Contribution ⁶	Potentially Significant Impact?
R1	35.9	LT-3	44.1	44.7	0.6	No
R2	33.2	LT-3	44.1	44.4	0.3	No
R3	28.3	LT-5	69.0	69.0	0.0	No
R4	36.6	LT-4	46.7	47.1	0.4	No
R5	38.3	LT-4	46.7	47.3	0.6	No
R6	33.8	LT-4	46.7	46.9	0.2	No
R7	36.3	LT-1	70.2	70.2	0.0	No
R8	27.9	LT-5	69.0	69.0	0.0	No
R9	43.3	LT-2	71.7	71.7	0.0	No
R10	47.0	LT-4	46.7	49.9	3.2	No
R11	47.1	LT-3	44.1	48.9	4.8	No

¹ See Exhibit 8-A for the noise receptor locations.

² Total Project operational noise level with barrier attenuation as shown on Table 9-3.

³ Reference noise level measurement locations as shown on Exhibit 5-A.

⁴ Observed daytime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

TABLE 9-5: NIGHTTIME (10:01 P.M. TO 7:59 A.M.) OPERATION NOISE LEVELS

Receptor Location ¹	Total Project Operational Noise Level ²	Measurement Location ³	Reference Ambient Noise Levels ⁴	Combined Project and Ambient ⁵	Project Contribution ⁶	Potentially Significant Impact?
R1	35.9	LT-3	41.0	42.2	1.2	No
R2	33.2	LT-3	41.0	41.7	0.7	No
R3	28.3	LT-5	66.7	66.7	0.0	No
R4	36.6	LT-4	41.9	43.0	1.1	No
R5	38.3	LT-4	41.9	43.5	1.6	No
R6	33.8	LT-4	41.9	42.5	0.6	No
R7	36.3	LT-1	68.4	68.4	0.0	No
R8	27.9	LT-5	66.7	66.7	0.0	No
R9	43.3	LT-2	70.4	70.4	0.0	No
R10	47.0	LT-4	41.9	48.2	6.3	No
R11	47.1	LT-3	41.0	48.0	7.0	No

¹ See Exhibit 8-A for the noise receptor locations.

² Total Project operational noise level with barrier attenuation as shown on Table 9-3.

³ Reference noise level measurement locations as shown on Exhibit 5-A.

⁴ Observed daytime ambient noise levels as shown on Table 5-1.

⁵ Represents the combined ambient conditions plus the Project activities.

⁶ The noise level increase expected with the addition of the proposed Project activities.

As indicated in Tables 9-4 and 9-5, the Project would contribute operational stationary/area-source noise levels of up to 4.8 dBA Leq (daytime) and 7.0 dBA Leq (nighttime) at nearby receptor locations. However, in no instance would Project operational stationary area-source noise cause or result in exceedance of the maximum acceptable ambient condition (65 dBA daytime/60 dBA nighttime). Nor would Project operational stationary/area-source noise result in an increase of 1.5 dBA or greater in instances where noise levels without the Project already exceed the maximum acceptable ambient condition. On this basis, Project operational stationary/area-source noise would not result in a substantial temporary/periodic, or permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project, and impacts in these regards are less-than-significant.

9.6 OPERATIONAL VIBRATION IMPACTS

Although the human threshold of perception for vibration is around 65 VdB, human response to vibration is not usually significant unless the vibration exceeds 70 VdB. Truck vibration levels are dependent on vehicle characteristics, load, speed and pavement condition. Typical vibration levels for heavy trucks on normal traffic speeds can reach levels below 65 VdB. Truck deliveries transiting on site will be travelling at very low speeds so it is expected that delivery truck vibration impacts nearby homes will be less than significant. Commercial developments typically do not operate machinery that can create significant long-term vibration impacts.

10 CONSTRUCTION NOISE IMPACTS

This section analyzes potential impacts resulting from the short-term off-site construction activities associated with the development of the Project.

10.1 CITY OF MORENO VALLEY CONSTRUCTION NOISE STANDARDS

As a subset of its stationary/area-source noise regulations, the City Municipal Code establishes additional restrictions on construction-source noise. More specifically, Municipal Code Section 11.80.030.D.7, *Construction and Demolitions*, provides the following limits to the hours of general construction equipment operations:

No person shall operate or cause operation of any tools or equipment used in construction, drilling, repair, alteration or demolition work between the hours of eight p.m. and seven a.m. the following day such that the sound there from creates a noise disturbance, except for emergency work by public service utilities or for other work approved by the city manager or designee.

However, grading operations shall be limited to the hours identified in Section 8.21.050 (O) of 7:00 a.m. to 6:00 p.m., Monday through Friday, and 8:00 a.m. to 4:00 p.m. on weekends and holidays or as approved by the City Engineer. In addition to the hours of operations limitations provided in the Noise Ordinance, Section 11.80.030 (C.), *Non-impulsive Sound Decibel Limits* states the following:

No person shall maintain, create, operate or cause to be operated on private property any source of sound in such a manner as to create any non-impulsive sound which exceeds the limits set forth for the source land use category in Table 11.80.030-2 when measured at a distance of two hundred (200) feet or more from the real property line of the source of the sound, if the sound occurs on privately owned property, or from the source of the sound, if the sound occurs on public right-of-way, public space or other publicly owned property. Any source of sound in violation of this subsection shall be deemed prima facie to be a noise disturbance. (9)

Even though the City of Moreno Valley Municipal Code does not identify specific construction noise limits; it does provide noise level limits for the source land use category when measured at a distance of 200 feet. Since the source land use (commercial) is other than residential, 65 dBA Leq at a distance of 200 feet is used as the limit for this analysis to assess the construction noise level impacts. Therefore, to conform with applicable provisions of the Municipal Code, the maximum allowable noise generated by on-site construction activities when measured at 200 feet from any property line, shall not exceed 65dBA Leq. To ensure that Project construction activities do not adversely affect ambient noise conditions during the nighttime hour of 7:00 a.m. to 8:00 a.m., and to demonstrate compliance with provisions of Municipal Code Sections 11.80.030.D.7 and 8.21.050.O, noise-generating Project construction activities shall be prohibited between the hours of 8:00 p.m. to 8:00 a.m. for general construction operations. Grading operations shall be prohibited between the hours of 6:00 p.m. to 8:00 a.m. on weekdays, and 4:00 p.m. to 8:00 a.m. on weekends and holidays.

10.2 CONSTRUCTION NOISE LEVELS

Construction noise represents a short-term impact on the ambient noise levels. Noise generated by construction equipment, including trucks, power tools, concrete mixers and portable generators can reach high levels. Project construction is expected to occur in four stages:

- Grading
- Utilities / Underground
- Curb, Gutter, Flatwork and Parking Lot
- Building / Painting

In January 2006, the Federal Highway Administration (FHWA) published the Roadway Construction Noise Model (RCNM) that includes a national database of construction equipment reference noise emission levels.⁽¹⁵⁾ The RCNM equipment database, as shown in Appendix 10.1, provides a comprehensive list of the noise generating characteristics for specific types of construction equipment. In addition, the database provides an acoustical usage factor to estimate the fraction of time each piece of construction equipment is operating at full power (i.e., its loudest condition) during a construction operation. The usage factor is a key input variable of the RCNM noise prediction model that is used to calculate the average Leq noise levels using the Lmax noise levels measured at a distance of 50 feet

Noise levels generated by heavy construction equipment can range from approximately 70 dBA to in excess of 100 dBA when measured at 50 feet. However, these noise levels diminish with distance from the construction site at a rate of 6 dBA per doubling of distance. For example, a noise level of 78 dBA measured at 50 feet from the noise source to the receptor would be reduced to 72 dBA at 100 feet from the source to the receptor, and would be further reduced to 66 dBA at 200 feet from the source to the receptor. The construction noise levels including the number and mix of construction equipment by construction phase are consistent with the data used to support the construction emissions in the *Moreno Valley Walmart Air Quality Impact Analysis* prepared by Urban Crossroads Inc. in November 2013. ⁽¹⁶⁾

10.3 CONSTRUCTION NOISE ANALYSIS

Using the stationary-source RCNM noise prediction model, calculations of the Project construction noise level impacts at a reference distance of 200 feet and at the eleven noise receptor locations were completed. Tables 10-1 to 10-4 present the short-term construction noise levels for each stage of construction at the eleven receptor locations. The analysis shows that the highest construction noise level impacts will likely occur during the grading phase of construction. As shown on Table 10-5, the unmitigated peak construction noise levels are expected to range from 50.6 to 81.4 dBA Leq at receptor locations R1 through R11. The noise levels at each receptor location include the additional attenuation provided by the existing barriers within the Project study area.

TABLE 10-1: GRADING CONSTRUCTION NOISE LEVELS

Equipment Type ¹	Quantity	Usage Factor ²	Hours Of Operation ³	Reference Noise Level @ 50 Feet (Lmax dBA)	Cumulative Level @ 200 Feet (Leq dBA)
Scraper	2	40%	3.2	84.0	71.0
Grader	2	40%	3.2	85.0	72.0
Rubber Tired Dozer	2	40%	3.2	79.0	66.0
Tractor/Loader/Backhoe	2	40%	3.2	78.0	65.0
Excavator	2	40%	3.2	81.0	68.0
Cumulative Hourly Noise Levels 200 Feet (Leq dBA)					76.2
Distance to 65 dBA Leq Contour (Feet)					727

Construction Noise Receptor Location	Distance To Property Line (In Feet) ⁴	Distance Attenuation (Leq dBA) ⁵	Estimated Noise Barrier Attenuation (Leq dBA)	Construction Noise Level (Leq dBA)
R1	710'	-11.0	-5.5	59.7
R2	750'	-11.5	-5.5	59.2
R3	1,540'	-17.7	-5.5	53.0
R4	1,180'	-15.4	0.0	60.8
R5	750'	-11.5	0.0	64.7
R6	470'	-7.4	-5.5	63.3
R7	250'	-1.9	-5.5	68.8
R8	2,020'	-20.1	-5.5	50.6
R9	100'	6.0	-5.5	76.7
R10	110'	5.2	0.0	81.4
R11	130'	3.7	0.0	80.0

¹ Source: FHWA's Roadway Construction Noise Model, January 2006.² Estimates the fraction of time each piece of equipment is operating at full power during a construction operation.³ Represents the actual hours of peak construction equipment activity out of a typical 8 hour workday.⁴ Distance from the nearest point of construction activity to the nearest receptor.⁵ Point (stationary) source drop off rate of 6.0 dBA per doubling of distance.

TABLE 10-2: UTILITIES / UNDERGROUND CONSTRUCTION NOISE LEVELS

Equipment Type ¹	Quantity	Usage Factor ²	Hours Of Operation ³	Reference Noise Level @ 50 Feet (Lmax dBA)	Cumulative Level @ 200 Feet (Leq dBA)
Rubber Tired Dozer	3	40%	3.2	79.0	67.8
Tractor/Loader/Backhoe	4	40%	3.2	78.0	68.0
Cumulative Hourly Noise Levels 200 Feet (Leq dBA)					70.9
Distance to 65 dBA Leq Contour (Feet)					394

Construction Noise Receptor Location	Distance To Property Line (In Feet) ⁴	Distance Attenuation (Leq dBA) ⁵	Estimated Noise Barrier Attenuation (Leq dBA)	Construction Noise Level (Leq dBA)
R1	710'	-11.0	-5.5	54.4
R2	750'	-11.5	-5.5	53.9
R3	1,540'	-17.7	-5.5	47.7
R4	1,180'	-15.4	0.0	55.5
R5	750'	-11.5	0.0	59.4
R6	470'	-7.4	-5.5	58.0
R7	250'	-1.9	-5.5	63.4
R8	2,020'	-20.1	-5.5	45.3
R9	100'	6.0	-5.5	71.4
R10	110'	5.2	0.0	76.1
R11	130'	3.7	0.0	74.6

¹ Source: FHWA's Roadway Construction Noise Model, January 2006.

² Estimates the fraction of time each piece of equipment is operating at full power during a construction operation.

³ Represents the actual hours of peak construction equipment activity out of a typical 8 hour workday.

⁴ Distance from the nearest point of construction activity to the nearest receptor.

⁵ Point (stationary) source drop off rate of 6.0 dBA per doubling of distance.

TABLE 10-3: CURB, GUTTER, FLATWORK AND PARKING LOT CONSTRUCTION NOISE LEVELS

Equipment Type ¹	Quantity	Usage Factor ²	Hours Of Operation ³	Reference Noise Level @ 50 Feet (Lmax dBA)	Cumulative Level @ 200 Feet (Leq dBA)
Pavers	2	50%	4.0	77.0	65.0
Rollers	2	20%	1.6	80.0	64.0
Paving Equipment	2	40%	3.2	76.0	63.0
Cumulative Hourly Noise Levels 200 Feet (Leq dBA)					68.8
Distance to 65 dBA Leq Contour (Feet)					311

Construction Noise Receptor Location	Distance To Property Line (In Feet) ⁴	Distance Attenuation (Leq dBA) ⁵	Estimated Noise Barrier Attenuation (Leq dBA)	Construction Noise Level (Leq dBA)
R1	710'	-11.0	-5.5	52.3
R2	750'	-11.5	-5.5	51.8
R3	1,540'	-17.7	-5.5	45.6
R4	1,180'	-15.4	0.0	53.4
R5	750'	-11.5	0.0	57.3
R6	470'	-7.4	-5.5	55.9
R7	250'	-1.9	-5.5	61.4
R8	2,020'	-20.1	-5.5	43.2
R9	100'	6.0	-5.5	69.3
R10	110'	5.2	0.0	74.0
R11	130'	3.7	0.0	72.6

¹ Source: FHWA's Roadway Construction Noise Model, January 2006.

² Estimates the fraction of time each piece of equipment is operating at full power during a construction operation.

³ Represents the actual hours of peak construction equipment activity out of a typical 8 hour workday.

⁴ Distance from the nearest point of construction activity to the nearest receptor.

⁵ Point (stationary) source drop off rate of 6.0 dBA per doubling of distance.

TABLE 10-4: BUILDING CONSTRUCTION / PAINTING NOISE LEVELS

Equipment Type ¹	Quantity	Usage Factor ²	Hours Of Operation ³	Reference Noise Level @ 50 Feet (Lmax dBA)	Cumulative Level @ 200 Feet (Leq dBA)
Tractor/Loader/Backhoe	3	40%	3.2	78.0	66.8
Forklift	3	20%	1.6	75.0	60.7
Generator Set	1	50%	4.0	81.0	65.9
Cranes	1	16%	1.3	81.0	61.0
Welder	1	40%	3.2	74.0	58.0
Air Compressor	1	40%	3.2	78.0	62.0
Cumulative Hourly Noise Levels 200 Feet (Leq dBA)					70.7
Distance to 65 dBA Leq Contour (Feet)					385

Construction Noise Receptor Location	Distance To Property Line (In Feet) ⁴	Distance Attenuation (Leq dBA) ⁵	Estimated Noise Barrier Attenuation (Leq dBA)	Construction Noise Level (Leq dBA)
R1	710'	-11.0	-5.5	54.2
R2	750'	-11.5	-5.5	53.7
R3	1,540'	-17.7	-5.5	47.5
R4	1,180'	-15.4	0.0	55.3
R5	750'	-11.5	0.0	59.2
R6	470'	-7.4	-5.5	57.8
R7	250'	-1.9	-5.5	63.3
R8	2,020'	-20.1	-5.5	45.1
R9	100'	6.0	-5.5	71.2
R10	110'	5.2	0.0	75.9
R11	130'	3.7	0.0	74.4

¹ Source: FHWA's Roadway Construction Noise Model, January 2006.

² Estimates the fraction of time each piece of equipment is operating at full power during a construction operation.

³ Represents the actual hours of peak construction equipment activity out of a typical 8 hour workday.

⁴ Distance from the nearest point of construction activity to the nearest receptor.

⁵ Point (stationary) source drop off rate of 6.0 dBA per doubling of distance.

10.4 CONSTRUCTION NOISE ABATEMENT MEASURES

Based on the four stages of construction, the noise impacts associated with the proposed Project are expected to create temporary high-level noise impacts at receptor locations surrounding the Project site when certain activities occur near the Project property line. Though construction noise is temporary, intermittent and of short duration, and will not present any long-term impacts, the following mitigation measures would reduce any noise level increases produced by the construction equipment to the nearby noise sensitive residential land uses.

- Install temporary noise control barriers that provide a minimum noise level attenuation of 17 dBA when Project construction occurs within 200 feet of existing residential structures. The noise control barrier must present a solid face from top to bottom. The noise control barrier must be high enough and long enough to block the view of the noise source. Unnecessary openings shall not be made.
 - The noise barriers must be maintained and any damage promptly repaired. Gaps, holes, or weaknesses in the barrier or openings between the barrier and the ground shall be promptly repaired.
 - The noise control barriers and associated elements shall be completely removed and the site appropriately restored upon the conclusion of the construction activity.
- Prior to approval of grading plans and/or issuance of building permits, plans shall include a note indicating that for other than grading activities, noise-generating Project construction activities shall not occur between the hours of 8:00 p.m. and 8:00 a.m. Grading operations shall be limited to between the hours of 8:00 a.m. to 6:00 p.m. weekdays, and 8:00 a.m. to 4:00 p.m. on weekends and holidays, or as otherwise approved by the City Engineer. The Project construction supervisor shall ensure compliance with the note and the City shall conduct periodic inspection at its discretion.
- During all Project site construction, the construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards. The construction contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the Project site.
- The construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and noise sensitive receptors nearest the Project site (i.e., to the north and east) during all Project construction.
- The construction contractor shall limit haul truck deliveries to the same hours specified for general construction equipment operations, other than grading (i.e. deliveries are prohibited between the hours of 8:00 p.m. and 8:00 a.m.). The Project Applicant shall prepare a haul route exhibit for review and approval by the City of Moreno Valley Planning Division prior to commencement of construction activities. The haul route exhibit shall design delivery routes to minimize the exposure of sensitive land uses or residential dwellings to delivery truck-related noise.
- The construction contractor shall post a publicly visible sign with the telephone number and person to contact regarding noise complaints. The construction manager, within seventy-two

hours of receipt of a noise complaint, shall either take corrective actions or, if immediate action is not feasible, provide a plan or corrective action to address the source of the noise complaint.

10.5 CONSTRUCTION NOISE THRESHOLDS OF SIGNIFICANCE

To control noise impacts associated with the construction of the proposed Project, the City of Moreno Valley has established limits to the hours of operation and noise level limits for the source land use category when measured at a distance of 200 feet. Since the source land use is other than residential, the 65 dBA Leq at a distance of 200 feet is used as the limit for this analysis to assess the Moreno Valley Walmart construction noise level impacts. Based on the construction noise analysis shown on Table 10-5, the unmitigated Project-related construction noise levels at receptor locations R7 and R9 to R11 will exceed the City of Moreno Valley 65 dBA Leq construction noise level limit for a non-residential source land use such as the proposed Project.

With the installation of temporary exterior noise control barriers with a minimum attenuation of 17 dBA at the perimeter of the Project site, noise levels at the nearby residential receptors are expected to be less than significant. Table 10-6 shows the mitigated peak construction noise levels with the attenuation provided by the temporary construction noise barriers and will not exceed the City of Moreno Valley 65 dBA Leq construction noise level limit. The construction related noise level impacts at the noise sensitive receptor locations are not expected to exceed the City of Moreno Valley 65 dBA Leq construction noise level limit with the installation of temporary construction noise control barriers. Therefore, as mitigated, the construction of the Project will result in a less-than-significant noise impact.

TABLE 10-5: UNMITIGATED CONSTRUCTION EQUIPMENT NOISE LEVELS

Noise Receptor ¹	Ambient Daytime Condition (dBA Leq)	Construction Phase Hourly Noise Level (dBA Leq) ²					Combined Construction Plus Ambient	Potential Significant Impact? ⁴
		Grading	Utilities	Curbs	Building	Peak ³		
R1	44.1	59.7	54.4	52.3	54.2	59.7	59.8	No
R2	44.1	59.2	53.9	51.8	53.7	59.2	59.4	No
R3	69.0	53.0	47.7	45.6	47.5	53.0	69.1	No
R4	46.7	60.8	55.5	53.4	55.3	60.8	61.0	No
R5	46.7	64.7	59.4	57.3	59.2	64.7	64.8	No
R6	46.7	63.3	58.0	55.9	57.8	63.3	63.4	No
R7	70.2	68.8	63.4	61.4	63.3	68.8	72.6	Yes
R8	69.0	50.6	45.3	43.2	45.1	50.6	69.1	No
R9	71.7	76.7	71.4	69.3	71.2	76.7	77.9	Yes
R10	46.7	81.4	76.1	74.0	75.9	81.4	81.4	Yes
R11	44.1	80.0	74.6	72.6	74.4	80.0	80.0	Yes

¹ Noise receptor locations are shown on Exhibit 8-A.

² Construction noise calculations at a distance of 200 feet by phase are included in Appendix 10-2.

³ Estimated construction noise levels during peak operating conditions.

⁴ Does the peak construction noise level exceed the City of Moreno Valley acceptable construction noise standard of 65 dBA Leq?

TABLE 10-6: MITIGATED CONSTRUCTION EQUIPMENT NOISE LEVELS

Noise Receptor ¹	Ambient Daytime Condition (dBA Leq)	Unmitigated Peak Noise Level (dBA Leq) ²	Temporary Barrier Noise Attenuation	Mitigated Peak Construction Noise Levels (dBA Leq) ³	Ambient Plus Mitigated Project Peak	Significant? ⁴
R7	70.2	68.8	-17.0	51.8	70.3	No
R9	71.7	76.7	-17.0	59.7	72.0	No
R10	46.7	81.4	-17.0	64.4	64.5	No
R11	44.1	80.0	-17.0	63.0	63.0	No

¹ Noise receptor locations are shown on Exhibit 8-A.

² Construction noise calculations at a distance of 200 feet by phase are included in Appendix 10-2.

³ Estimated construction noise levels during peak operating conditions.

⁴ Does the peak construction noise level exceed the City of Moreno Valley acceptable construction noise standard of 65 dBA Leq?

10.5.1 SOIL IMPORT AND CONSTRUCTION MATERIAL DELIVERIES

Construction of the Project will require soil import and delivery of construction materials. The export/import materials will be transported via 16-cubic yard (cy) capacity dump trucks. Each truck will generate one (1) inbound and one (1) outbound trip, accounting for a total of two (2) truck trips per load of material exported or imported. Soil import is anticipated to consist of the import of 43,137 cubic yards of “fill” soil to the site. Construction material deliveries are anticipated to consist of the export/import of raw building materials, concrete, asphalt, etc.

In order to minimize the impact of construction truck traffic noise to the surrounding roadway network, it is recommended that trucks utilize the most direct route between the site and the I-215 Freeway via Cactus Avenue to Perris Boulevard. It is anticipated that the construction staging will be located off of Perris Boulevard. As such, the proposed construction access on Perris Boulevard will provide the most direct access.

It is recommended that the export and import of construction materials occur during off-peak hours in order to have a minimal traffic noise impact to the surrounding roadway network. It is also recommended that a construction traffic management plan be implemented for the duration of the construction phase, consistent with the *Moreno Valley Walmart Traffic Impact Analysis*.(14)

10.6 CONSTRUCTION VIBRATION IMPACTS

Construction activity can result in varying degrees of ground vibration, depending on the equipment and methods used, distance to the affected structures and soil type. It is expected that ground-borne vibration from Project construction activities would cause only intermittent, localized intrusion. The proposed Project’s construction activities most likely to cause vibration impacts are:

- Heavy Construction Equipment: Although all heavy mobile construction equipment has the potential of causing at least some perceptible vibration while operating close to building, the

vibration is usually short-term and is not of sufficient magnitude to cause building damage. It is not expected that heavy equipment such as large bulldozers would operate close enough to any residences to cause a vibration impact.

- Trucks: Trucks hauling building materials to construction sites can be sources of vibration intrusion if the haul routes pass through residential neighborhoods on streets with bumps or potholes. Repairing the bumps and potholes generally eliminates the problem.

Ground-borne vibration levels resulting from construction activities occurring within the Project site were estimated by data published by the Federal Transit Administration. Construction activities that would occur within the Project site are expected to include grading, which would have the potential to generate low levels of ground-borne vibration. Using the vibration source level of construction equipment provided on Table 6-5 and the construction vibration assessment methodology published by the FTA, it is possible to estimate the Project vibration impacts. Table 10-7 presents the expected Project related vibration levels at each of the eleven sensitive receptor locations.

TABLE 10-7: CONSTRUCTION EQUIPMENT VIBRATION LEVELS

Noise Receptor ¹	Distance To Property Line (In Feet)	Receptor Vibration Levels (VdB) ²					Potential Significant Impact? ³
		Small Bulldozer	Jackhammer	Loaded Trucks	Large Bulldozer	Peak Vibration	
R1	710'	14.4	35.4	42.4	43.4	43.4	No
R2	750'	13.7	34.7	41.7	42.7	42.7	No
R3	1,540'	4.3	25.3	32.3	33.3	33.3	No
R4	1,180'	7.8	28.8	35.8	36.8	36.8	No
R5	750'	13.7	34.7	41.7	42.7	42.7	No
R6	470'	19.8	40.8	47.8	48.8	48.8	No
R7	250'	28.0	49.0	56.0	57.0	57.0	No
R8	2,020'	0.8	21.8	28.8	29.8	29.8	No
R9	100'	39.9	60.9	67.9	68.9	68.9	No
R10	110'	38.7	59.7	66.7	67.7	67.7	No
R11	130'	36.5	57.5	64.5	65.5	65.5	No

¹ Noise receptor locations are shown on Exhibit 8-A.

² Based on the Vibration Source Levels of Construction Equipment included on Table 6-5.

³ Does the Peak Vibration exceed the FTA maximum acceptable vibration standard of 80 (VdB)?

Based on the reference vibration levels provided by the FTA, a large bulldozer represents the peak source of vibration with a reference level of 87 VdB at a distance of 25 feet. At distances ranging from 100 to 2,020 feet from the Project site, construction vibration levels are expected to range from 0.8 to 68.9 VdB. Using the construction vibration assessment methods provided by the Federal Transit Administration (FTA) the proposed Project site will not include nor require equipment, facilities, or activities that would result in a perceptible human response (annoyance).

The Project construction is not expected to generate vibration levels exceeding the FTA maximum acceptable vibration standard of 80 (VdB). Further, impacts at the site of the closest

sensitive receptor are unlikely to be sustained during the entire construction period, but will occur rather only during the times that heavy construction equipment is operating proximate to the Project site perimeter. Moreover, construction at the Project site will be restricted to daytime hours consistent with City requirements thereby eliminating potential vibration impact during the sensitive nighttime hours. On this basis the potential for the Project to result in exposure of persons to, or generation of, excessive ground-borne vibration is determined to be less than significant.

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11 FINDINGS AND CONCLUSIONS

This report evaluated the potential noise impacts associated with the development of the proposed Project including Project related traffic noise, stationary noise impacts and temporary construction noise impacts. This section summarizes the Project noise impacts and the mitigation measures required to reduce the Project noise impacts to less than significant levels.

11.1 OFF-SITE TRAFFIC NOISE IMPACTS

This report evaluated potential Project off-site traffic-related noise impacts to the study area. The off-site traffic noise analysis shows that the Project noise level increase of up to 1.2 dBA CNEL for Existing with Project conditions is expected to decrease to 1.0 dBA CNEL by Year 2018 conditions and to 0.8 dBA CNEL by Year 2035 conditions. Generally, the Project's incremental traffic-related noise impacts at land uses adjacent to roadways conveying Project traffic will diminish over time. This occurs as the background traffic on the study area roadway segments increases and the Project represents a smaller percentage of the overall traffic volume. This analysis shows that the Project will not create a substantial permanent increase in traffic-related noise levels or expose persons to noise levels in excess of the exterior noise level standards, and therefore, no off-site traffic noise mitigation is required.

In no instances would the Project generate perceptible vehicular-source noise that would result in or cause noise levels along potentially affected roadway segments to transition from an acceptable ambient noise environment (<65 dBA CNEL) to a noise environment greater than 65 dBA CNEL. On this basis, Project vehicular-source noise would not result in exposure of persons to, or generation of, noise levels in excess of standards established in the City's General Plan, and potential impacts in this regard would be less-than-significant.

11.2 OPERATIONAL IMPACTS

The operational noise impacts associated with the proposed Project are expected to include loading docks, trash compactors, roof-top air condenser units, shopping cart carousels, parking lot and car wash activities. The analysis shows that the Project only operational noise levels will range from 28.1 to 52.1 dBA Leq at a distance of 200 feet.

When combined with the existing ambient noise levels, the Project operational noise levels at a distance of 200 feet are estimated at 54.4 dBA Leq. The Project operational noise levels associated with the proposed Moreno Valley Walmart will not exceed the daytime and nighttime exterior noise level standards for commercial uses of 65 dBA Leq and 60 dBA Leq, respectively at a distance of 200 feet and, therefore, will be less than significant.

The noise analysis shows that the Project would contribute operational stationary/area-source noise levels of up to 4.8 dBA Leq (daytime) and 7.0 dBA Leq (nighttime) at nearby receptor locations. However, in no instance would Project operational stationary area-source noise cause or result in an exceedance of the maximum acceptable ambient condition (65 dBA daytime/60 dBA nighttime). Nor would Project operational stationary/area-source noise result in an increase of 1.5 dBA or greater in instances where noise levels without the Project already

exceed the maximum acceptable ambient condition. On this basis, Project operational stationary/area-source noise would not result in a substantial temporary/periodic, or permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project, and impacts in these regards are less-than-significant.

11.3 CONSTRUCTION NOISE IMPACTS

Based on the four stages of construction, the noise impacts associated with the proposed Project are expected to create temporary high-level noise impacts at receptor locations surrounding the Project site when certain activities occur near the Project property line. Though construction noise is temporary, intermittent and of short duration, and will not present any long-term impacts, the following mitigation measures would reduce any noise level increases produced by the construction equipment to the nearby noise sensitive residential land uses.

- Install temporary noise control barriers that provide a minimum noise level attenuation of 17 dBA when Project construction occurs within 200 feet of existing residential structures. The noise control barrier must present a solid face from top to bottom. The noise control barrier must be high enough and long enough to block the view of the noise source. Unnecessary openings shall not be made.
 - The noise barriers must be maintained and any damage promptly repaired. Gaps, holes, or weaknesses in the barrier or openings between the barrier and the ground shall be promptly repaired.
 - The noise control barriers and associated elements shall be completely removed and the site appropriately restored upon the conclusion of the construction activity.
- Prior to approval of grading plans and/or issuance of building permits, plans shall include a note indicating that for other than grading activities, noise-generating Project construction activities shall not occur between the hours of 8:00 p.m. and 8:00 a.m. Grading operations shall be limited to between the hours of 8:00 a.m. to 6:00 p.m. weekdays, and 8:00 a.m. to 4:00 p.m. on weekends and holidays, or as otherwise approved by the City Engineer. The Project construction supervisor shall ensure compliance with the note and the City shall conduct periodic inspection at its discretion.
- During all Project site construction, the construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards. The construction contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the Project site.
- The construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and noise sensitive receptors nearest the Project site (i.e., to the north and east) during all Project construction.
- The construction contractor shall limit haul truck deliveries to the same hours specified for general construction equipment operations, other than grading (i.e. deliveries are prohibited between the hours of 8:00 p.m. and 8:00 a.m.). The Project Applicant shall prepare a haul route exhibit for review and approval by the City of Moreno Valley Planning Division prior to commencement of construction activities. The haul route exhibit shall design delivery routes to

minimize the exposure of sensitive land uses or residential dwellings to delivery truck-related noise.

- The construction contractor shall post a publicly visible sign with the telephone number and person to contact regarding noise complaints. The construction manager, within seventy-two hours of receipt of a noise complaint, shall either take corrective actions or, if immediate action is not feasible, provide a plan or corrective action to address the source of the noise complaint.

11.4 VIBRATION IMPACTS

The Project does not propose uses or activities that would result in permanent on-going vibration sources. The estimated 68.9 VdB due to Project construction activities received at the nearest residential property is below the FTA 80 VdB impact criteria level, and would therefore not be considered an annoyance or an interference at proximate residential land uses. Further, impacts at the site of the closest sensitive receptor are unlikely to be sustained during the entire construction period, but will occur rather only during the times that heavy construction equipment is operating proximate to the Project site perimeter. Moreover, construction at the Project site will be restricted to daytime hours consistent with City requirements thereby eliminating potential vibration impact during evening hours. On this basis the potential for the Project to result in exposure of persons to, or generation of, excessive ground-borne vibration is determined to be less-than-significant.

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13 CERTIFICATION

The contents of this noise study report represent an accurate depiction of the noise environment and impacts associated with the proposed Moreno Valley Walmart Project. The information contained in this noise study report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 660-1994 ext. 203.

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EDUCATION

Master of Science in Civil and Environmental Engineering
California Polytechnic State University, San Luis Obispo • December, 1993

Bachelor of Science in City and Regional Planning
California Polytechnic State University, San Luis Obispo • June, 1992

PROFESSIONAL REGISTRATIONS

PE – Registered Professional Traffic Engineer – TR 2537 • January, 2009
AICP – American Institute of Certified Planners – 013011 • June, 1997–January 1, 2012
PTP – Professional Transportation Planner • May, 2007 – May, 2013
INCE – Institute of Noise Control Engineering • March, 2004

PROFESSIONAL AFFILIATIONS

ASA – Acoustical Society of America
ITE – Institute of Transportation Engineers

PROFESSIONAL CERTIFICATIONS

Certified Acoustical Consultant – County of Orange • February, 2011
FHWA-NHI-142051 Highway Traffic Noise Certificate of Training • February, 2013

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APPENDIX 3.1:

CITY OF MORENO VALLEY GENERAL PLAN SAFETY ELEMENT (NOISE)

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also promoted by way of educational programs.

Between July of 2004 and June of 2005, animal services staff responded to 17,077 calls for service. Animal services also returned 1,290 lost pets to their owners and arranged for the adoption of 2,034 pets.



Moreno Valley Animal Shelter

6.3.2 Issues and Opportunities

Irrespective of the efforts of Animal Services and other organizations dedicated to reducing the population of unwanted pets, a large number of unwanted pets are produced every year. Unfortunately, the number of unwanted animals far surpasses the capacity of the shelter and the number of good homes available for adoption.

The need for animal services is expected to grow in proportion to the rate of growth in the local community.

B. ENVIRONMENTAL SAFETY

6.4 NOISE

6.4.1 Background

Noise has long been an accepted part of modern civilization, but excessive noise has become an important environmental concern. Excessive noise can disturb the peace and quiet of neighborhoods.

Excessive noise can cause physical and psychological responses. Temporary reactions include, but are not limited to, constriction of blood vessels, secretion of saliva and gastric fluids, changes in heart rate and a feeling of anxiety and discomfort.

Three effects of noise that are of particular concern are interference with speech, interruption of sleep and hearing loss. Sleep interruption can occur when the intruding noise exceeds 45 decibels. Speech interference becomes a problem when the intruding noise is above 60 decibels. Hearing loss can begin to occur with sustained noise levels above 75 decibels.

Section 1092 of Title 25, Chapter 1, Subchapter 1, Article 4, of the California Administrative Code includes noise insulation standards for new multi-family structures (hotels, motels, apartments, condominiums, and other attached dwellings) located within the 60 CNEL contour adjacent to roads, railroads, rapid transit lines, airports or industrial areas. An acoustic analysis is required showing that these multi-family units have been designed to limit interior noise levels with doors and windows closed to 45 CNEL in any habitable room. Title 21 of the California Administration Code (Subchapter 6, Article 2, Section 5014) also specifies that noise levels in all habitable rooms do not exceed 45 CNEL.

6.4.2 Noise Fundamentals

Noise levels are measured on a logarithmic scale in decibels. The measurements are then weighted and added over a specified time period to reflect not only the magnitude of the sound, but also its duration, frequency and time of occurrence. In this manner, various acoustical scales and units of measurement have been developed such as: equivalent sound levels (Leq), day-night average sound levels (Ldn), Community Noise Equivalent Levels (CNEL's), and

Single Event Noise Exposure Levels (SENEL's).

A-weighted decibels (dBA) approximate the subjective response of the human ear to noise by discriminating against the very low and high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies audible to the human ear. The decibel scale has a value of 1.0 dBA at the threshold of hearing and 140 dBA at the threshold of pain. Each increase of 10 decibels indicates a ten-fold sound energy increase, which is perceived by the human ear as being roughly twice as loud.

Examples of the decibel level of various noise sources are the quiet rustle of leaves (10 dBA), a soft whisper (20 to 30 dBA) and the hum of a small electric clock (40 dBA). Additional examples include the ambient noise in a house kitchen (50dBA), normal conversation at 5 feet (55 dBA) and a busy street at 50 feet (75 dBA).

Day-night average sound levels (Ldn) are a measure of cumulative noise exposure. The Ldn value results from a summation of hourly noise levels over a 24-hour time period with an increased weighting factor applied to the period between 10:00 PM and 7:00 AM. This takes into account the fact that noise that occurs during normal sleeping hours is more annoying. Community Noise Equivalent Levels (CNEL's) is a measure similar to Ldn except it includes an additional penalty for noise that occurs between 7 p.m. and 10 p.m. CNEL values are typically less than one decibel higher than Ldn values.

The Single Event Noise Exposure Level (SENEL) is the appropriate rating scale for a single noise occurrence. The SENEL, given in decibels, is the noise exposure level of a single event measured over the time interval between the initial and final times for which it exceeds the threshold noise level.

For a "line source" of noise such as a heavily traveled roadway, the noise level drops off at

a nominal rate of 3.0 decibels for each doubling of distance between the noise source and noise receiver. Environmental factors such as the wind, temperature, the characteristics of the ground (hard or soft) and the air (relative humidity), the presence of grass, shrubs and trees, combine to increase the actual attenuation achieved outside laboratory conditions to 4.5 decibels per doubling of distance. Thus, a noise level of 74.5 decibels at 50 feet from the highway centerline would attenuate to 70.0 decibels at 100 feet, 65.5 decibels at 200 feet, and so forth.

In an area, which is relatively flat and free of barriers, the sound level resulting from a single "point source" drops by 6 decibels for each doubling of distance. This applies to fixed noise sources such as industrial sources and mobile noise sources that are temporarily stationary such as idling trucks.

Important noise sources within the study area include industrial and utility uses, mechanical equipment, loud speakers, aircraft and motor vehicles. Noise levels adjacent to roadways vary with the volume of traffic, the mean vehicular speed, the truck mix and the road cross-section. High traffic volumes and speed along State route 60 and arterial roadways contribute to high noise levels. Noise levels due to air traffic from the joint-use airport at March depend on aircraft characteristics, the number, path, elevation and duration of flights as well as the time of day that flights take place.

The results of the noise analysis prepared for the environmental impact report for the General Plan Update is shown in Figure 6-2. Figure 6-2 can be used as a general guide to determine potential "worst case" future noise levels for planning and design purposes.

6.4.3 Community Responses to Noise

People in general cannot perceive an increase or decrease of 1.0 dBA except in carefully controlled laboratory experiments. A

3.0 dBA increase is considered noticeable outside of the laboratory. An increase of 5.0 dBA is often necessary before any noticeable change in community response (i.e. complaints) would be expected.

Studies have shown that people respond to changes in long-term noise levels. About 10 percent of the people exposed to traffic noise of 60 Ldn will report being highly annoyed with the noise and 2 percent more people become highly annoyed with each unit of Ldn increase in traffic noise. When traffic noise exceeds 60 Ldn or aircraft noise exceeds 55 Ldn, people begin complaining. Group and legal actions to stop the noise may occur at traffic noise levels near 70 Ldn and aircraft noise levels near 65 Ldn.

Approximately 10 percent of the population has such a low tolerance for noise that they object to any noise not of their own making. Consequently, even in the quietest environment, some complaints will occur. Another 25 percent of the population will not complain even in very severe noise environments. Thus, a variety of reactions can be expected.

6.4.4. Planning and Design Considerations

There are many mechanisms available to control noise in the community. A noise ordinance can be adopted to control noise sources, but the best way to minimize the adverse effects of noise is through planning and design.

Planning noise compatible land uses near existing or projected high noise levels is an effective technique. Certain land uses are more compatible with noise than others. Schools, hospitals, churches and single-family residences are relatively sensitive to noise. Multiple-family residential uses are less sensitive to noise than single-family residential uses. Commercial, office and industrial uses are relatively noise tolerant. Where possible, the land use plan places

noise tolerant uses within areas impacted by noise from State Route 60, arterial streets and aircraft over flights. The historical land use pattern and other community needs made it impractical to avoid all noise conflicts through land use planning.

Acoustic site planning, architectural design, acoustic construction techniques and noise barriers are effective methods for reducing noise impacts. Acoustic site planning involves the arrangement of lots, buildings, berms and walls to minimize noise conflicts and impacts. Sound walls and berming are often used as sound barriers between residential uses and nonresidential noise sources, such as commercial uses, industrial uses, freeways and other major roadways.

Acoustic architectural design involves the incorporation of noise attenuation strategies in the design of individual structures. Building heights, room arrangements, window size and placement, balcony and courtyard design can be adjusted to shield noise sensitive activities from intrusive sound levels.

Acoustic construction is the treatment of various parts of a building to reduce interior noise levels. Acoustic wall design, doors, ceilings and floors, as well as dense building materials and acoustic windows (double-paned, thick, non-openable, or small windows) are all available options.

6.5 GEOLOGIC HAZARDS

6.5.1 Background

Most of the Moreno Valley study area lies at the eastern margin of a block of the earth's crust known as the "Perris Block." The Perris Block is a mass of granitic rock, generally bounded by the San Jacinto fault, the Elsinore fault, and the Santa Ana River. The Perris Block has had an apparent history of vertical land movements of several thousand feet.

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APPENDIX 3.2:

GENERAL PLAN GUIDELINES

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APPENDIX C

Guidelines for the Preparation and Content of the Noise Element of the General Plan

The noise element of the general plan provides a basis for comprehensive local programs to control and abate environmental noise and to protect citizens from excessive exposure. The fundamental goals of the noise element are:

- ◆ To provide sufficient information concerning the community noise environment so that noise may be effectively considered in the land use planning process. In so doing, the necessary groundwork will have been developed so that a community noise ordinance may be utilized to resolve noise complaints.
- ◆ To develop strategies for abating excessive noise exposure through cost-effective mitigating measures in combination with zoning, as appropriate, to avoid incompatible land uses.
- ◆ To protect those existing regions of the planning area whose noise environments are deemed acceptable and also those locations throughout the community deemed “noise sensitive.”
- ◆ To utilize the definition of the community noise environment in the form of CNEL or Ldn noise contours as provided in the noise element for local compliance with the State Noise Insulation Standards. These standards require specified levels of outdoor to indoor noise reduction for new multifamily residential constructions in areas where the outdoor noise exposure exceeds CNEL (or Ldn) 60 dB.

The 1976 edition of the *Noise Element Guidelines*, prepared by the California Department of Health Services (DHS), was a result of SB 860 (Beilenson, 1975), which became effective January 1, 1976. SB 860, among other things, revised and clarified the requirements for the noise element of each city and county general plan and gave DHS the authority to issue guidelines for compliance thereto. Compliance with the 1976 version of these guidelines was mandated only for those noise elements that were not submitted to the Office of Planning and Research by the effective date of SB 860 and to subsequent revisions of previously submitted noise elements.

A comparison between the 1976 *Noise Element Guidelines* and this revised edition will not reveal substantial changes. The basic methodology advanced by that previous edition remains topical. Where necessary, code references have been updated and the text revised to reflect statutory changes.

DEFINITIONS

Decibel, dB: A unit of measurement describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals (20 micronewtons per square meter).

A-Weighted Level: The sound level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear and gives good correlation with subjective reactions to noise.

L10: The A-weighted sound level that is exceeded ten percent of the sample time. Similarly, L50, L90, etc.

Leq: Equivalent energy level. The sound level corresponding to a steady-state sound level containing the same total energy as a time-varying signal over a given sample period. Leq 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 p.m. to 10 p.m. and after addition of 10 decibels to sound levels in the night from 10 p.m. to 7 a.m.

Ldn: Day-Night Average Level. The average equivalent A-weighted sound level during a 24-hour day, obtained after the addition of 10 decibels to sound levels in the night after 10 p.m. and before 7 a.m. (Note: CNEL and Ldn represent daily levels of noise exposure averaged on an annual or daily basis, while Leq represents the equivalent energy noise exposure for a shorter time period, typically one hour.)

Noise Contours: Lines drawn about a noise source indicating equal levels of noise exposure. CNEL and Ldn are the metrics utilized herein to describe annoyance due to noise and to establish land use planning criteria for noise.

Ambient Noise: The 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.

Intrusive Noise: That noise which intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence, and tonal or informational content as well as the prevailing noise level.

Noisiness Zones: Defined areas within a community wherein the ambient noise levels are generally similar (within a range of 5 dB, for example). Typically, all other things being equal, sites within any given noise zone will be of comparable proximity to major noise sources. Noise contours define different noisiness zones.

NOISE ELEMENT REQUIREMENTS

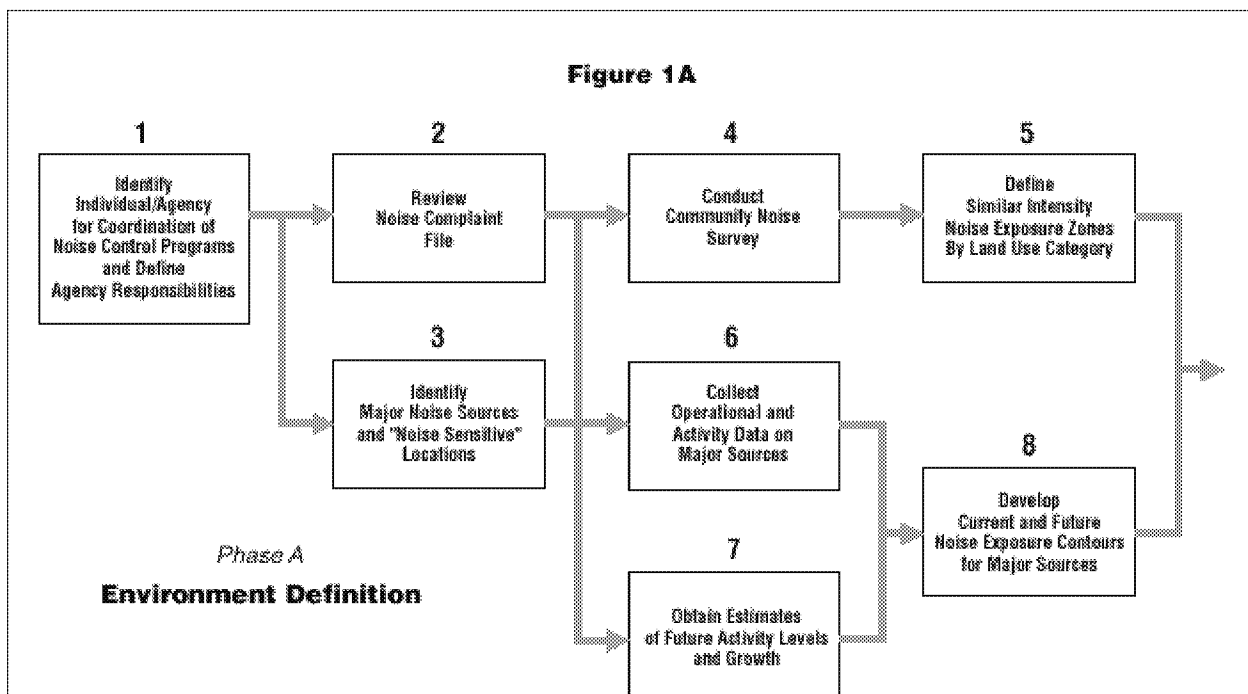
Government Code Section 65302(f): A noise element shall identify and appraise noise problems in the community. The noise element shall recognize the guidelines established by the Office of Noise Control in the State Department of Health Services and shall

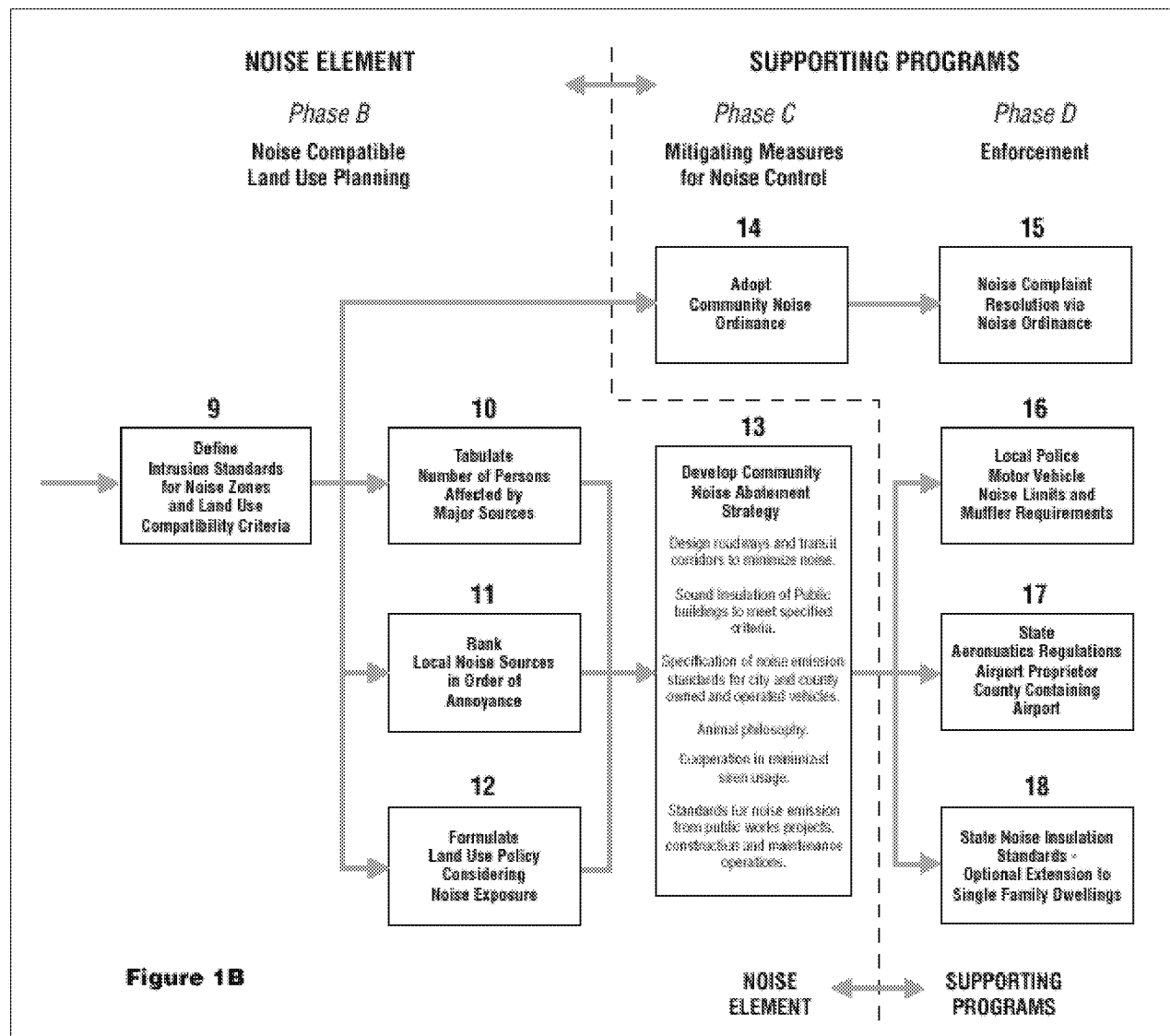
analyze and quantify, to the extent practicable, as determined by the legislative body, current and projected noise levels for all of the following sources:

1. Highways and freeways.
2. Primary arterials and major local streets.
3. Passenger and freight on-line railroad operations and ground rapid transit systems.
4. Commercial, general aviation, heliport, helistop, and military airport operations, aircraft overflights, jet engine test stands, and all other ground facilities and maintenance functions related to airport operation.
5. Local industrial plants, including, but not limited to, railroad classification yards.
6. Other ground stationary sources identified by local agencies as contributing to the community noise environment.

Noise contours shall be shown for all of these sources and stated in terms of community noise equivalent level (CNEL) or day-night average level (Ldn). The noise contours shall be prepared on the basis of noise monitoring or following generally accepted noise modeling techniques for the various sources identified in paragraphs (1) to (6), inclusive.

The noise contours shall be used as a guide for establishing a pattern of land uses in the land use element that minimizes the exposure of community residents to excessive noise.





The noise element shall include implementation measures and possible solutions that address existing and foreseeable noise problems, if any. The adopted noise element shall serve as a guideline for compliance with the state's noise insulation standards.

NOISE ELEMENT DEVELOPMENT PROCESS

The sequential steps for development of a noise element as an integral part of a community's total noise control program are illustrated in the flow diagrams of figures 1A and 1B. The concept presented herein utilizes the noise element as the central focus of the community's program and provides the groundwork for all subsequent enforcement efforts. The process may be described in terms of four phases:

Phase A: Noise Environment Definition

Phase B: Noise-Compatible Land Use Planning

Phase C: Noise Mitigation Measures

Phase D: Enforcement

These phases encompass a total of eighteen defined tasks, the first thirteen of which relate directly to the statutory requirements contained in Government Code §65302(f). The remainder relate to critical supportive programs (noise ordinances, etc.). Citations from §65302(f) are contained within quotation marks.

Phase A: Noise Environment Definition

The purpose of this phase is to adequately identify and appraise the existing and future noise environment of the community in terms of Community Noise Equivalent Level (CNEL) or Day-Night Average Level

(Ldn) noise contours for each major noise source and to divide the city or county into noise zones for subsequent noise ordinance application.

Step 1:

Identify a specific individual or lead agency within the local government to be responsible for coordination of local noise control activities. This individual or agency should be responsible for coordinating all intergovernmental activities and subsequent enforcement efforts.

Step 2:

Review noise complaint files as compiled by all local agencies (police, animal control, health, airport, traffic department, etc.) in order to assess the following:

1. Location and types of major offending noise sources.
2. Noise-sensitive areas and land uses.
3. Community attitudes towards specific sources of noise pollution.
4. Degree of severity of noise problems in the community.
5. Relative significance of noise as a pollutant.

Step 3:

Specifically identify major sources of community noise based upon the review of complaint files and interagency discussion and the following statutory subjects:

1. Highways and freeways.
2. Primary arterials and major local streets.
3. Passenger and freight on-line railroad operations and ground rapid transit systems.
4. Commercial, general aviation, heliport, helistop, and military airport operations, aircraft overflights, jet engine test stands, and all other ground facilities and maintenance functions related to airport operation.
5. Local industrial plants, including, but not limited to, railroad classification yards.
6. Other ground stationary noise sources identified by local agencies as contributing to the community noise environment. (§65302(f))

In addition, the land uses and areas within the community that are noise sensitive should be identified at the same time.

Step 4:

Given the identification of major noise sources and an indication of the community's attitude toward noise pollution (when available), it is advisable to conduct a community noise survey. The purposes of the survey are threefold:

First and foremost, to define by measurement the current noise levels at those sites deemed noise sources and to establish noise level contours around them. The noise contours must be expressed in terms of CNEL or Ldn.

Second, the collected data will form the basis for an analysis of noise exposure from major sources.

Finally, the survey should define the existing ambient noise level throughout the community. Intrusive noises over and above this general predetermined ambient level may then be controlled through implementation of a noise ordinance.

Step 5:

Given the definition of existing ambient noise levels throughout the community, one may proceed with a classification of the community into broad regions of generally consistent land uses and similar noise environments. Because these regions will be varying distances from identified major noise sources, the relative levels of environmental noise will be different from one another. Therefore, subsequent enforcement efforts and mitigating measures may be oriented towards maintaining quiet areas and improving noisy ones.

Step 6:

Directing attention once again to the major noise sources previously identified, it is essential to gather operations and activity data in order to proceed with the analytical noise exposure prediction. This data is somewhat source-specific but generally should consist of the following information and be supplied by the owner/operator of the source:

1. Average daily level of activity (traffic volume, flights per day, hours of operation, etc.).
2. Distribution of activity over day and night time periods, days of the week, and seasonal variations.
3. Average noise level emitted by the source at various levels of activity.
4. Precise source location and proximity to noise-impacted land uses.
5. Composition of noise sources (percentage of trucks on highway, aircraft fleet mix, industrial machinery type, etc.).

Step 7:

In addition to collecting data on the variables affecting noise-source emission for the existing case, future values for these parameters need to be assessed. This is best accomplished by correlating the noise element with other general plan elements (i.e. land use, circulation, housing, etc.) and regional transportation plans and by coordination with other responsible agencies (Airport Land Use Commission, Caltrans, etc.).

Step 8:

Analytical noise exposure modeling techniques may be utilized to develop source-specific noise contours around major noise sources in the community.

“The noise contours shall be prepared on the basis of noise monitoring or following generally accepted noise modeling techniques...” (§65302(f))

Simplified noise prediction methodologies are available through the Department of Health Services for highway and freeway noise, railroad noise, simple fixed stationary and industrial sites, and general aviation aircraft (with less than twenty percent commercial jet aircraft activity—two engine jet only). Noise contours for larger airport facilities and major industrial sites are sufficiently complex that they must be developed via sophisticated computer techniques available through recognized acoustical consulting firms. (Airport contours generally have already been developed in accordance with requirements promulgated by Caltrans’ Division of Aeronautics: Noise Standards, Title 21, Section 5000, et seq., California Code of Regulations.)

Although considerable effort may go into developing noise contours that, in some instances, utilize rather sophisticated digital programming techniques, the present state of the art is such that their accuracy is usually no better than ± 3 dB. In fact, the accuracy of the noise exposure prediction decreases with increasing distance from the noise source. In the near vicinity of the source, prediction accuracy may be within the range of ± 1 dB, while at greater distances this may deteriorate to ± 5 dB or more. At greater distances, meteorological and topographic effects, typically not totally accounted for in most models, may have significant influence. Thus, while dealing with the concept of noise contours, it is best not to think of them as absolute lines of demarcation on a map (such as topographical contours), but rather as bands of similar noise exposure.

In addition to assessment of the present-day noise environment, it is recommended that the noise exposure data be projected through the time horizon of the general plan. The noise element should be updated and

corrected every five years, or sooner as is necessary, and, at that time, the forecasted noise exposure should be projected an additional five years.

Phase B: Noise-Compatible Land Use Planning

A noise planning policy needs to be rather flexible and dynamic to reflect not only technological advances in noise control, but also economic constraints governing application of noise-control technology and anticipated regional growth and demands of the community. In the final analysis, each community must decide the level of noise exposure its residents are willing to tolerate within a limited range of values below the known levels of health impairment.

Step 9:

Given the definition of the existing and forecasted noise environment provided by the Phase A efforts, the locality preparing the noise element must now approach the problem of defining how much noise is too much. Guidelines for noise-compatible land use are presented in Figure 2. The adjustment factors given in Table 1 may be used in order to arrive at noise-acceptability standards that reflect the noise-control goals of the community, the particular community’s sensitivity to noise (as determined in Step 2), and the community’s assessment of the relative importance of noise pollution.

Step 10:

As a prerequisite to establishing an effective noise-control program, it is essential to know, in quantitative terms, the extent of noise problems in the community. This is best accomplished by determining, for each major noise source around which noise contours have been developed, the number of community residents exposed and to what extent. It is also useful to identify those noise-sensitive land uses whose noise exposure exceeds the recommended standards given in Figure 2. The exposure inventory can be accomplished by using recent census data, adjusted for regional growth, and tabulating the population census blocks within given noise contours.

Step 11:

Once the noise exposure inventory is completed, the relative significance of specific noise sources in the community (in terms of population affected) will become apparent. The local agencies involved may wish to use this information to orient their noise-control and abatement efforts to achieve the most good. Clearly, control of certain major offending sources will be be-

yond the jurisdiction of local agencies; however, recognition of these limitations should prompt more effective land use planning strategies.

Step 12:

A major objective of the noise element is to utilize this information to ensure noise-compatible land use planning:

“The noise contours shall be used as a guide for establishing a pattern of land uses in the land use element that minimizes the exposure of community residents to excessive noise.” (§65302(f))

The intent of such planning is to:

(1) Maintain those areas deemed acceptable in terms of noise exposure.

(2) Use zoning or other land use controls in areas with excessive noise exposure to limit uses to those which are noise compatible and to restrict other, less compatible uses.

Phase C: Noise Mitigation Measures

Step 13:

Based upon the relative importance of noise sources in order of community impact and local attitudes towards these sources, “[t]he noise element shall include implementation measures and possible solutions that address existing and foreseeable noise problems, if any” (§65302(f)).

Selection of these noise-mitigating measures should be coordinated through all local agencies in order to be most effective. Minimization of noise emissions from all local government-controlled or sanctioned activities should be a priority item. This includes low noise specifications for new city or county owned and operated vehicles (and noise reduction retrofitting where economically possible) and noise emission limits on public works projects. Local governments should insure that public buildings (especially schools) are sufficiently insulated to allow their intended function to be uninterrupted by exterior noise. Local agencies can work with state and federal bodies to minimize transportation noise, primarily through transitway design, location, or configuration modifications.

Additional measures might include such policies as limitation of siren usage by police, fire, and ambulance units within populated areas. Animal control units may be encouraged to minimize barking dog complaints through use of an improved public relations campaign termed “Animal Philosophy.” This involves working with pet owners to determine why the dog barks and

attempting solutions rather than just issuing citations. Local zoning and subdivision ordinances may require the use of noise-reducing building materials or the installation of sound-insulating walls along major roads in new construction and subdivisions.

In general, local noise reduction programs need to address the problems specific to each community, with the ultimate goals being the reduction of complaint frequency and the provision of a healthful noise environment for all residents of the community.

The remaining steps are beyond the scope of the noise element requirements, but pertain to coordination with other state noise-control programs and achievement of the goals set forth in the noise element through development of an active local noise-control effort.

Step 14:

While the noise element identifies problem areas and seeks to develop medium- and long-range solutions to them, a community noise ordinance is the only viable instrument for short-term or immediate solutions to intrusive noise. A model noise ordinance that can be tailored to the specific needs of a given community by simply incorporating those sections deemed most applicable has been developed by the Department of Health Services. The model ordinance also suggests a cure for non-stationary or transient types of noise events, for which noise contours are generally meaningless.

Phase D: Enforcement

To adequately carry out the programs identified in the noise element and to comply with state requirements for certain other noise-control programs, specific enforcement programs are recommended at the local level.

Step 15:

Adopt and apply a community noise ordinance for resolution of noise complaints.

Step 16:

Recent studies have shown that the most objectionable feature of traffic noise is the sound produced by vehicles equipped with illegal or faulty exhaust systems. In addition, such hot rod vehicles are often operated in a manner that causes tire squeal and excessively loud exhaust noise. There are a number of statewide vehicle noise regulations that can be enforced by local authorities as well as the California Highway Patrol. Specifically, Sections 23130, 23130.5, 27150, 27151,

and 38275 of the California Vehicle Code, as well as excessive speed laws, may be applied to curtail this problem. Both the Highway Patrol and the Department of Health Services (through local health departments) are available to aid local authorities in code enforcement and training pursuant to proper vehicle sound-level measurements.

Step 17:

Commercial and public airports operating under a permit from Caltrans' Aeronautics Program are required

to comply with both state aeronautics standards governing aircraft noise and all applicable legislation governing the formation and activities of a local Airport Land Use Commission (ALUC). The function of the ALUC is, among other things, to develop a plan for noise-compatible land use in the immediate proximity of the airport. The local general plan must be reviewed for compatibility with this Airport Land Use Plan and amended if necessary (Public Utilities Code §21676). Therefore, the developers of the noise element will need to coordinate their activities with the local ALUC to

FIGURE 2

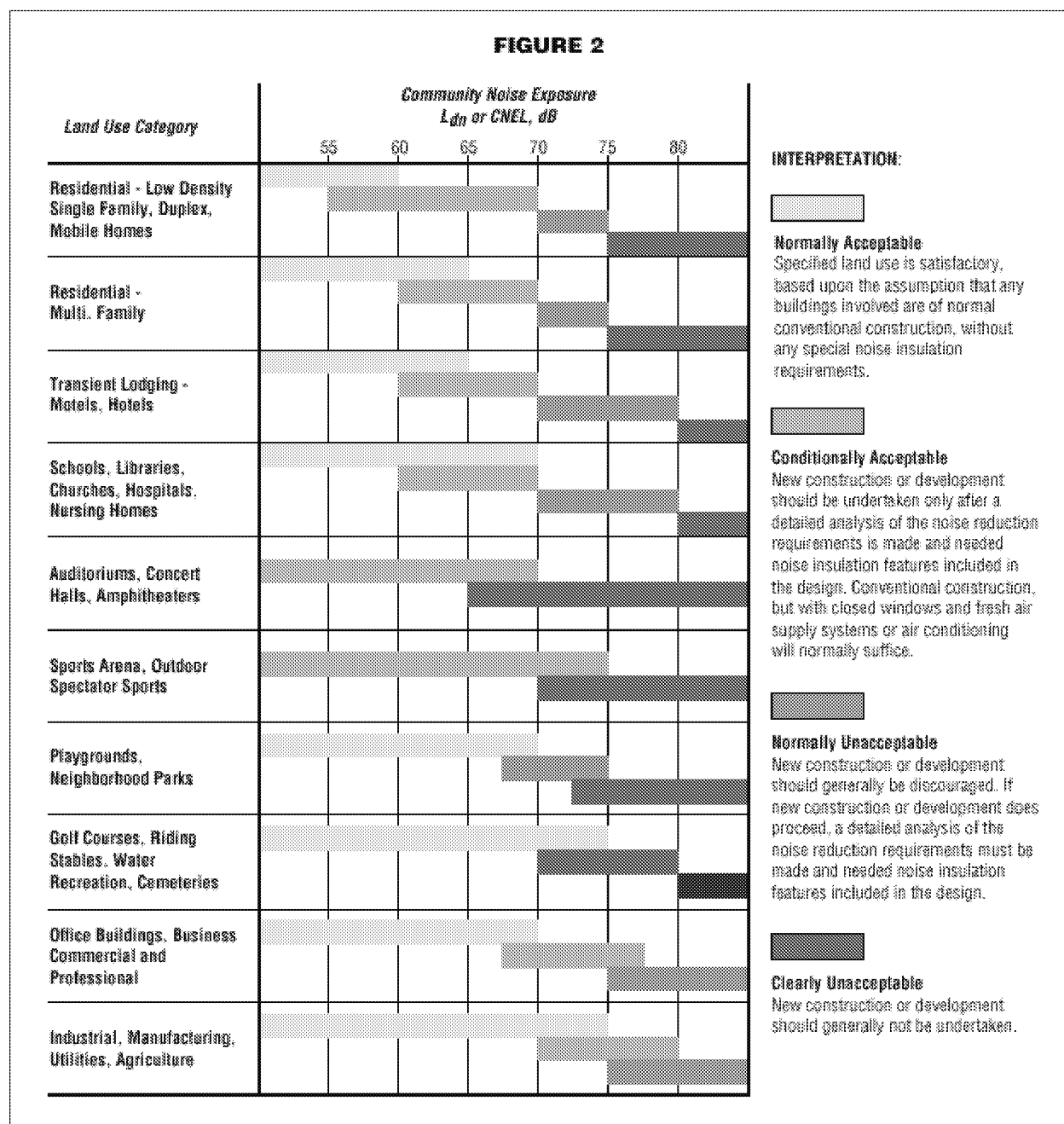


Table 1		
<i>Type of Correction</i>	<i>Description</i>	<i>Amount of Correction to be Added to Measured CNEL in dB</i>
Seasonal Correction	Summer (or year-round operation)	0
	Winter only (or windows always closed)	- 5
Correction for Outdoor Residual Noise Level	Quiet suburban or rural community (remote from large cities and from industrial activity and trucking).	+ 10
	Quiet suburban or rural community (not located near industrial activity).	+ 5
	Urban residential community (not immediately adjacent to heavily traveled roads and industrial areas).	0
	Noisy urban residential community (near relatively busy roads or industrial areas).	- 5
	Very noisy urban residential community.	- 10
Correction for Previous Exposure and Community Attitudes	No prior experience with the intruding noise.	+ 5
	Community has had some previous exposure to intruding but little effort is being made to control the noise. This correction may also be applied in a situation where the community has not been exposed to the noise previously, but the people are aware that bona fide efforts are being made to control the noise.	0
	Community has had considerable previous exposure to the intruding noise and the noise maker's relations with the community are good.	- 5
	Community aware that operation causing noise is very necessary and it will not continue indefinitely. This correction can be applied for an operation of limited duration and under emergency circumstances.	- 10
Pure Tone or Impulse	No pure tone or impulsive character.	0
	Pure Tone or impulsive character present.	+ 5

ensure that compatible standards are utilized throughout the community and that the noise element develops as part of a coherent master plan, of which the ALUP forms an integral component.

Step 18:

"The adopted noise element shall serve as a guideline for compliance with the State's noise insulation standards." (§65302(f))

Recognizing the need to provide acceptable habitation environments, state law requires noise insulation of new multifamily dwellings constructed within the 60 dB (CNEL or Ldn) noise exposure contours. It is a function of the noise element to provide noise contour information around all major sources in support of the sound transmission control standards (Appendix, Chapter 2-35, Part 2, Title 24, California Code of Regulations).

RELATIONSHIP OF THE NOISE ELEMENT TO OTHER GENERAL PLAN ELEMENTS

The noise element is related to the land use, housing, circulation, and open-space elements. Recognition of the interrelationship of noise and these four other mandated elements is necessary in order to prepare an integrated general plan. The relationship between noise and these four elements is briefly discussed below.

- ◆ **Land Use**—A key objective of the noise element is to provide noise exposure information for use in the land use element. When integrated with the noise element, the land use element will show acceptable land uses in relation to existing and projected noise contours. Section 65302(f) states that: “The noise contours shall be used as a guide for establishing a pattern of land uses in the land use element that minimizes the exposure of community residents to excessive noise.”
- ◆ **Housing**—The housing element considers the provision of adequate sites for new housing and standards for housing stock. Since residential land use is among the most noise sensitive, the noise exposure information provided in the noise element must be considered when planning the location of new housing. Also, state law requires special noise insulation of new multifamily dwellings constructed within the 60 dB (CNEL or Ldn) noise exposure contour. This requirement may influence the location and cost of this housing type. In some cases, the noise environment may be a constraint on housing opportunities.
- ◆ **Circulation**—The circulation system must be correlated with the land use element and is one of the major sources of noise. Noise exposure will thus be a decisive factor in the location and design of new transportation facilities and the possible mitigation of noise from existing facilities in relation to existing and planned land uses. The local planning agency may wish to review the circulation and land use elements simultaneously to assess their compatibility with the noise element.
- ◆ **Open Space**—Excessive noise can adversely affect the enjoyment of recreational pursuits in designated open space. Thus, noise exposure levels should be considered when planning for this kind of open-space use. Conversely, open space can be used to buffer sensitive land uses from noise sources through the use of setbacks and landscaping. Open-space designation can also effectively exclude other land uses from excessively noisy areas.

SELECTION OF THE NOISE METRIC

The community noise metrics to be used in noise elements are either CNEL or Ldn (as specified in §65302(f)). A significant factor in the selection of these scales was compatibility with existing quantifications of noise exposure currently in use in California. CNEL is the noise metric currently specified in the State Aeronautics Code for evaluation of noise impacts at specific airports that have been declared to have a noise problem. Local compliance with state airport noise standards necessitates that community noise be specified in CNEL. The Ldn represents a logical simplification of CNEL. It divides the day into two weighted time periods (Day—7 a.m. to 10 p.m. and Night—10 p.m. to 7 a.m.) rather than the three used in the CNEL measure (Day—7 a.m. to 7 p.m., Evening—7 p.m. to 10 p.m., and Night—10 p.m. to 7 a.m.) with no significant loss in accuracy.

CRITERIA FOR NOISE-COMPATIBLE LAND USE

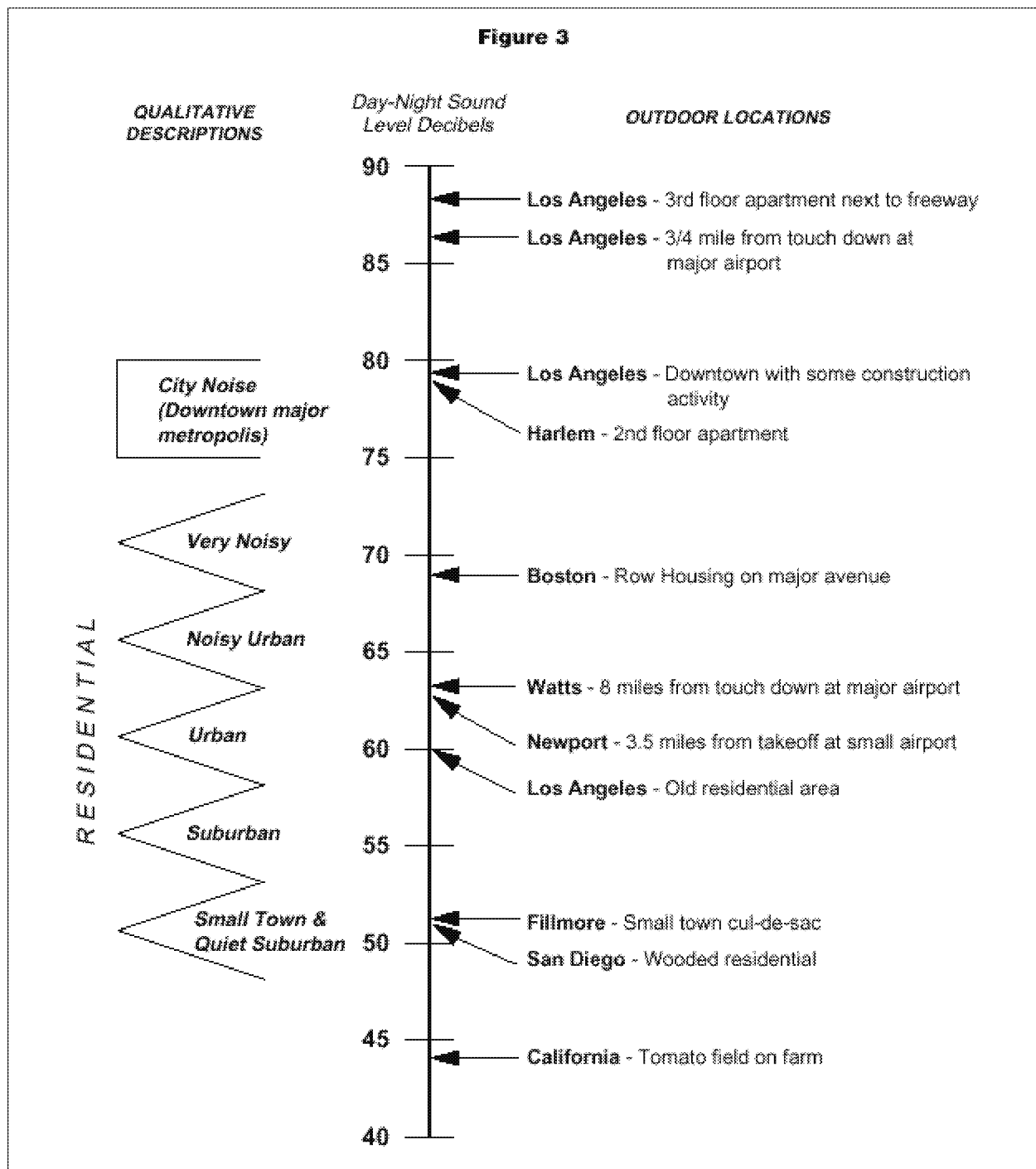
Figure 2 summarizes the suggested use of the CNEL/Ldn metrics for evaluating land use noise compatibility. Such criteria require a rather broad interpretation, as illustrated by the ranges of acceptability for a given land use within a defined range of noise exposures.

Denotation of a land use as “normally acceptable” on Figure 2 implies that the highest noise level in that band is the maximum desirable for existing or conventional construction that does not incorporate any special acoustic treatment. In general, evaluation of land use that falls into the “normally acceptable” or “normally unacceptable” noise environments should include consideration of the type of noise source, the sensitivity of the noise receptor, the noise reduction likely to be provided by structures, and the degree to which the noise source may interfere with speech, sleep, or other activities characteristic of the land use.

Figure 2 also provides an interpretation as to the suitability of various types of construction with respect to the range of outdoor noise exposure.

The objective of the noise compatibility guidelines in Figure 2 is to provide the community with a means of judging the noise environment it deems to be generally acceptable. Many efforts have been made to account for the variability in perceptions of environmental noise that exist between communities and within a given community.

Beyond the basic CNEL or Ldn quantification of noise exposure, one can apply correction factors to the measured or calculated values of these metrics in order to account for some of the factors that may cause



the noise to be more or less acceptable than the mean response. Significant among these factors are seasonal variations in noise source levels, existing outdoor ambient levels (i.e., relative intrusiveness of the source), general societal attitudes towards the noise source, prior history of the source, and tonal characteristics of the source. When it is possible to evaluate some or all of these factors, the measured or computed noise expo-

sure values may be adjusted by means of the correction factors listed in Table 1 in order to more accurately assess local sentiments towards acceptable noise exposure.

In developing these acceptability recommendations, efforts were made to maintain consistency with the goals defined in the federal EPA's "Levels Document" and the State Sound Transmission Control Standards

for multifamily housing. In both of these documents, an interior noise exposure of 45 dB CNEL (or Ldn) is recommended to permit normal residential activity. If one considers the typical range of noise reduction provided by residential dwellings (12 to 18 dB with windows partially open), the 60 dB outdoor value identified as “clearly acceptable” for residential land use would provide the recommended interior environment.

Figure 3 has been included in order to better explain the qualitative nature of community noise environments expressed in terms of Ldn. It is apparent that noise environments cover a broad range and that, in general, it may be observed that the quality of the environment improves as one moves further away from major transportation noise sources.

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APPENDIX 3.3:

CITY OF MORENO VALLEY NOISE ORDINANCE

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Moreno Valley Municipal Code[Up](#)[Previous](#)[Next](#)[Main](#)[Search](#)[Print](#)[No Frames](#)[Title 9 PLANNING AND ZONING](#)[Chapter 9.10 PERFORMANCE STANDARDS](#)**9.10.140 Noise and sound.**

Unless otherwise specified in Chapter 9.08, General Development Standards, or Chapter 9.09, Specific Use Development Standards, all commercial and industrial uses shall be operated so that noise created by any loudspeaker, bells, gongs, buzzers, or other noise attention or attracting devices shall not exceed fifty-five (55) dBA at any one time beyond the boundaries of the property. (Ord. 359 (part), 1992)

Moreno Valley Municipal Code

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[Title 11 PEACE, MORALS AND SAFETY](#)

Chapter 11.80 NOISE REGULATION**11.80.010 Legislative findings.**

It is found and declared that:

A. Excessive sound within the limits of the city is a condition which has existed for some time, and the amount and intensity of such sound is increasing.

B. Such excessive sound is a detriment to the public health, safety, and welfare and quality of life of the residents of the city.

C. The necessity in the public interest for the provisions and prohibitions hereinafter contained and enacted is declared as a matter of legislative determination and public policy, and it is further declared that the provisions and prohibitions hereinafter contained and enacted are in pursuance of and for the purpose of securing and promoting the public health, safety, welfare and quality of life of the city and its inhabitants. (Ord. 740 § 1.2, 2007)

11.80.020 Definitions.

For purposes of this chapter, certain words and phrases used herein are defined as follows:

"A-weighted sound level" means the sound pressure level in decibels as measured with a sound level meter using the A-weighting network. The unit of measurement is the dB(A).

"Commercial" means all uses of land not otherwise classified as residential, as defined in this section.

"Construction" means any site preparation, and/or any assembly, erection, repair, or alteration, excluding demolition, of any structure, or improvements to real property.

"Continuous airborne sound" means sound that is measured by the slow-response setting of a meter manufactured to the specifications of ANSI Section 1.4-1983 (R2006) "Specification for Sound Level Meters," or its successor.

"Daytime" means eight a.m. to ten p.m. the same day.

"Decibel" (dB) means a unit for measuring the amplitude of sound, equal to twenty (20) times the logarithm to the base ten (10) of the ratio of the pressure of the sound measured to the reference pressure, which is twenty (20) micropascals (twenty (20) micronewtons per square meter.)

"Demolition" means any dismantling, intentional destruction or removal of structures or other improvements to real property.

"Disturb" means to interrupt, interfere with, or hinder the enjoyment of peace or quiet or the normal listening activities or the sleep, rest or mental concentration of the hearer.

"Emergency" means any occurrence or set of circumstances involving actual or imminent physical trauma or significant property damage which necessitates immediate action. Economic loss alone shall not constitute an emergency. It shall be the burden of an alleged violator to prove an "emergency."

"Emergency work" means any work made necessary to restore property to a safe condition following an emergency, or to protect persons or property threatened by an imminent emergency, to the extent such work is, in fact, necessary to protect persons or property from exposure to imminent danger or damage.

"Frequency" means the number of complete oscillation cycles per unit of time.

"Impulsive sound" means sound of short duration, usually less than one second, with an abrupt onset and rapid decay. Examples of sources of impulsive sound include explosions, drop forge impacts, and discharge of firearms.

"Nighttime" means 10:01 p.m. to 7:59 a.m. the following day.

"Noise disturbance" means any sound which:

1. Disturbs a reasonable person of normal sensitivities;
2. Exceeds the sound level limits set forth in this chapter; or
3. Is plainly audible as defined in this section. Where no specific distance is set forth for the determination of audibility, references to noise disturbance shall be deemed to mean plainly audible at a distance of two hundred (200) feet from the real property line of the source of the sound, if the sound occurs on privately owned property, or from the source of the sound, if the sound occurs on public right of way, public space or other publicly owned property.

"Person" means any person, person's firm, association, copartnership, joint venture, corporation, or any entity public or private in nature.

"Plainly audible" means that the sound or noise produced or reproduced by any particular source, can be clearly distinguished from ambient noise by a person using his/her normal hearing faculties.

"Public right-of-way" means any street, avenue, boulevard, sidewalk, bike path or alley, or similar place normally accessible to the public which is owned or controlled by a governmental entity.

"Public space" means any park, recreational or community facility, or lot which contains at least one building that is open to the general public during its hours of operation.

"Residential" means all uses of land primarily for dwelling units, as well as hospitals, schools, colleges and universities, and places of religious assembly.

"Sound" means an oscillation in pressure, particle displacement, particle velocity or other physical parameter, in a medium with internal forces that causes compression and rarefaction of that medium capable of producing an auditory impression. The description of sound may include any characteristic of such sound, including duration, intensity and frequency.

"Sound level" means the weighted sound pressure level as measured in dB(A) by a sound level meter and as specified in American National Standards Institute (ANSI) specifications for sound-level meters (ANSI Section 1.4-1971 (R1976)). If the frequency weighting employed is not indicated, the A-weighting shall apply.

"Sound level meter" means an instrument, demonstrably capable of accurately measuring sound levels as defined above.

All technical definitions not defined above shall be in accordance with applicable publications and standards of the American National Standards Institute (ANSI). (Ord. 740 § 1.2, 2007)

11.80.030 Prohibited acts.

A. General Prohibition. It is unlawful and a violation of this chapter to maintain, make, cause, or allow the making of any sound that causes a noise disturbance, as defined in Section 11.80.020.

B. Sound causing permanent hearing loss.

1. Sound level limits. Based on statistics from the Center for Disease Control and Prevention and the National Institute for Occupational Safety and Health, Table 1 and Table 1-A specify sound level limits which, if exceeded, will have a high probability of producing permanent hearing loss in anyone in the area where the

sound levels are being exceeded. No sound shall be permitted within the city which exceeds the parameters set forth in Tables 11.80.030-1 and 11.80.030-1-A of this chapter:

Table 11.80.030-1
MAXIMUM CONTINUOUS SOUND LEVELS*

Duration per Day Continuous Hours	Sound level [db(A)]
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
0.5	110
0.25	115

* When the daily sound exposure is composed of two or more periods of sound exposure at different levels, the combined effect of all such periods shall constitute a violation of this section if the sum of the percent of allowed period of sound exposure at each level exceeds 100 percent

Table 11.80.030-1A
**MAXIMUM IMPULSIVE SOUND
LEVELS**

Number of Repetitions per 24-Hour Period	Sound level [dB (A)]
1	145
10	135
100	125

2. Exemptions. No violation shall exist if the only persons exposed to sound levels in excess of those listed in Tables 11.80.030-1 and 11.80.030-1A are exposed as a result of:

- a. Trespass;
- b. Invitation upon private property by the person causing or permitting the sound; or
- c. Employment by the person or a contractor of the person causing or permitting the sound.

C. Nonimpulsive Sound Decibel Limits. No person shall maintain, create, operate or cause to be operated on private property any source of sound in such a manner as to create any nonimpulsive sound which exceeds the limits set forth for the source land use category (as defined in Section 11.80.020) in Table 11.80.030-2 when measured at a distance of two hundred (200) feet or more from the real property line of the source of the sound, if the sound occurs on privately owned property, or from the source of the sound, if the sound occurs on public right-of-way, public space or other publicly owned property. Any source of sound in violation of this subsection shall be deemed prima facie to be a noise disturbance.

Table 11.80.030-2

MAXIMUM SOUND LEVELS (IN dB(A)) FOR SOURCE LAND USES

Residential		Commercial	
Daytime	Nighttime	Daytime	Nighttime
60	55	65	60

D. Specific Prohibitions. In addition to the general prohibitions set out in subsection A of this section, and unless otherwise exempted by this chapter, the following specific acts, or the causing or permitting thereof, are regulated as follows:

1. Motor Vehicles. No person shall operate or cause to be operated a public or private motor vehicle, or combination of vehicles towed by a motor vehicle, that creates a sound exceeding the sound level limits in Table 11.80.030-2 when the vehicle(s) are not otherwise subject to noise regulations provided for by the California Vehicle Code.

2. Radios, Televisions, Electronic Audio Equipment, Musical Instruments or Similar Devices from a Stationary Source. No person shall operate, play or permit the operation or playing of any radio, tape player, television, electronic audio equipment, musical instrument, sound amplifier or other mechanical or electronic sound making device that produces, reproduces or amplifies sound in such a manner as to create a noise disturbance. However, this subsection shall not apply to any use or activity exempted in subsection E of this section and any use or activity for which a special permit has been issued pursuant to Section 11.80.040.

3. Radios, Electronic Audio Equipment, or Similar Devices from a Mobile Source Such as a Motor Vehicle. Sound amplification or reproduction equipment on or in a motor vehicle is subject to regulation in accordance with the California Vehicle Code when upon the public right-of-way. When upon public space or publicly owned property other than the public right-of-way or upon private property open to the public, sound amplification or reproduction equipment shall not be operated in such a manner that it is plainly audible at a distance of fifty (50) feet in any direction from the vehicle.

4. Portable, Hand-Held Music or Sound Amplification or Reproduction Equipment. Such equipment shall not be operated on a public right-of-way, public space or other publicly owned property in such a manner as to be plainly audible at a distance of fifty (50) feet in any direction from the operator.

5. Loudspeakers and Public Address Systems.

a. Except as permitted by Section 11.80.040, no person shall operate, or permit the operation of, any loudspeaker, public address system or similar device, for any commercial purpose:

1. Which produces, reproduces or amplifies sound in such a manner as to create a noise disturbance; or
2. During nighttime hours on a public right-of-way, public space or other publicly owned property.

b. No person shall operate, or permit the operation of, any loudspeaker, public address system or similar device, for any noncommercial purpose, during nighttime hours in such a manner as to create a noise disturbance.

6. Animals. No person shall own, possess or harbor an animal or bird that howls, barks, meows, squawks, or makes other sounds that:

- a. Create a noise disturbance;
- b. Are of frequent or continued duration for ten (10) or more consecutive minutes and are plainly audible at a distance of fifty (50) feet from the real property line of the source of the sound; or

c. Are intermittent for a period of thirty (30) or more minutes and are plainly audible at a distance of fifty (50) feet from the real property line of the source of the sound.

7. Construction and Demolition. No person shall operate or cause the operation of any tools or equipment used in construction, drilling, repair, alteration or demolition work between the hours of eight p.m. and seven a.m. the following day such that the sound there from creates a noise disturbance, except for emergency work by public service utilities or for other work approved by the city manager or designee. This section shall not apply to the use of power tools as provided in subsection (D)(9) of this section.

8. Emergency Signaling Devices. No person shall intentionally sound or permit the sounding outdoors of any fire, burglar or civil defense alarm, siren or whistle, or similar stationary emergency signaling device, except for emergency purposes or for testing as follows:

a. Testing of a stationary emergency signaling device shall not occur between seven p.m. and seven a.m. the following day;

b. Testing of a stationary emergency signaling device shall use only the minimum cycle test time, in no case to exceed sixty (60) seconds;

c. Testing of a complete emergency signaling system, including the functioning of the signaling device and the personnel response to the signaling device, shall not occur more than once in each calendar month. Such testing shall only occur only on weekdays between seven a.m. and seven p.m. and shall be exempt from the time limit specified in subsection (D)(8)(2) of this section.

9. Power Tools. No person shall operate or permit the operation of any mechanically, electrically or gasoline motor-driven tool during nighttime hours so as to cause a noise disturbance across a residential real property boundary.

10. Pumps, Air Conditioners, Air-Handling Equipment and Other Continuously Operating Equipment. Notwithstanding the general prohibitions of subsection a of this section, no person shall operate or permit the operation of any pump, air conditioning, air-handling or other continuously operating motorized equipment in a state of disrepair or in a manner which otherwise creates a noise disturbance distinguishable from normal operating sounds.

E. Exemptions. The following uses and activities shall be exempt from the sound level regulations except the maximum sound levels provided in Tables 11.80.030-1 and 11.80.030-1A:

1. Sounds resulting from any authorized emergency vehicle when responding to an emergency call or acting in time of an emergency.

2. Sounds resulting from emergency work as defined in Section 11.80.020

3. Any aircraft operated in conformity with, or pursuant to, federal law, federal air regulations and air traffic control instruction used pursuant to and within the duly adopted federal air regulations; and any aircraft operating under technical difficulties in any kind of distress, under emergency orders of air traffic control, or being operated pursuant to and subsequent to the declaration of an emergency under federal air regulations.

4. All sounds coming from the normal operations of interstate motor and rail carriers, to the extent that local regulation of sound levels of such vehicles has been preempted by the Noise Control Act of 1972 (42 U.S.C. § 4901 et seq.) or other applicable federal laws or regulations

5. Sounds from the operation of motor vehicles, to the extent they are regulated by the California Vehicle Code.

6. Any constitutionally protected noncommercial speech or expression conducted within or upon a any public right-of-way, public space or other publicly owned property constituting an open or a designated public forum in compliance with any applicable reasonable time, place and manner restrictions on such speech or expression or otherwise pursuant to legal authority.

7. Sounds produced at otherwise lawful and permitted city-sponsored events, organized sporting events, school assemblies, school playground activities, by permitted fireworks, and by permitted parades on public right-of-way, public space or other publicly owned property.

8. An event for which a temporary use permit or special event permit has been issued under other provisions of this code, where the provisions of Section 11.80.040 are met, the permit granted expressly grants an exemption from specific standards contained in this chapter, and the permittee and all persons under the permittee's reasonable control actually comply with all conditions of such permit. Violation of any condition of such a permit related to sound or sound equipment shall be a violation of this chapter and punishable as such.

F. Nothing in this chapter shall be construed to limit, modify or repeal any other regulation elsewhere in this code relating to the regulation of noise sources, nor shall any such other regulation be read to permit the emission of noise in violation of any provision of this chapter. (Ord. 740 § 1.2, 2007)

11.80.040 Special provisions for temporary use and special event permits.

The exemption by permit set forth in Section 11.80.030(E)(8) shall be subject to the following requirements and conditions:

A. The permit application shall include the name, address and telephone number of the permit applicant; the date, hours and location for which the permit is requested; and the nature of the event or activity. It shall also specify the types of sounds and/or sound equipment to be permitted, the proposed duration of such sound, the specific standards from which the sound is to be exempted, and the reasons for each requested exemption.

B. The permit shall be issued provided the proposed activity meets the requirements of this section and the issuing official determines that the sound to be emitted at the event as proposed would not be detrimental to the public health, safety or welfare, that the event cannot reasonably achieve its legitimate aims and purposes without the exemption and that the sound levels proposed will not unreasonably damage the peace and quiet enjoyment of the lawful users of surrounding properties, nor constitute a public nuisance.

C. The official issuing the permit may prescribe any reasonable conditions or requirements he/she deems necessary to minimize noise disturbances upon the community or the surrounding neighborhood, and/or to protect the health, safety or welfare of the public, including participants in the permitted event, including use of mufflers, screens or other sound-attenuating devices.

D. Any permit granted must be in writing and shall contain all conditions upon which the permit shall be effective.

E. No more than six events requiring a sound limit exemption may be held at any particular location upon privately owned or controlled property per calendar year, provided further that the number of events shall not exceed the number permitted under the regulations for the type of permit issued. For purposes of this subsection, "location" means a legal parcel of real property or a complete shopping or commercial center or mall sharing common parking and access even if comprised of multiple legal parcels.

F. The exemption from sound limits under such permit shall not exceed maximum period of four hours in one twenty-four (24) hour day.

G. The permit will only be granted for hours between nine a.m. and ten p.m. on all days other than Friday and Saturday; and, on Friday and Saturday, between the hours of nine a.m. and one a.m. of the following day, except in the following circumstances:

1. A permit may be granted for hours between nine a.m. on New Year's Eve and one a.m. the following day (New Year's Day).

2. A permit may be granted for hours between nine a.m. and two a.m. the following day if there are no residences, hospitals, or nursing homes within a 0.5 mile radius of the property where the function is taking

place.

H. Functions for which the permits are issued shall be limited to a continuous airborne sound level not to exceed seventy (70) dB(A), as measured two hundred (200) feet from the real property boundary of the source property if on private property, or from the source if on public right of way, public space or other publicly owned property. (Ord. 740 § 1.2, 2007)

11.80.050 Measurement or assessment of sound.

A. Measurement With Sound Meter.

1. The measurement of sound shall be made with a sound level meter meeting the standards prescribed by ANSI Section 1.4-1983 (R2006). The instruments shall be maintained in calibration and good working order. A calibration check shall be made of the system at the time of any sound level measurement. Measurements recorded shall be taken so as to provide a proper representation of the source of the sound. The microphone during measurement shall be positioned so as not to create any unnatural enhancement or diminution of the measured sound. A windscreen for the microphone shall be used at all times. However, a violation of this chapter may occur without the occasion of the measurements being made as otherwise provided.

2. The slow meter response of the sound level meter shall be used in order to best determine the average amplitude.

3. The measurement shall be made at any point on the property into which the sound is being transmitted and shall be made at least three feet away from any ground, wall, floor, ceiling, roof and other plane surface.

4. In case of multiple occupancy of a property, the measurement may be made at any point inside the premises to which any complainant has right of legal private occupancy; provided that the measurement shall not be made within three feet of any ground, wall, floor, ceiling, roof or other plane surface.

5. All measurements of sound provided for in this chapter will be made by qualified officials of the city who are designated by the city manager or designee to operate the apparatus used to make the measurements.

B. Assessment Without Sound Level Meter. Any police officer, code enforcement officer, or other official designated by the city manager or designee who hears a noise or sound that is plainly audible, as defined in Section 11.80.020, in violation of this chapter, may enforce this chapter and shall assess the noise or sound according to the following standards:

1. The primary means of detection shall be by means of the official's normal hearing faculties, not artificially enhanced.

2. The official shall first attempt to have a direct line of sight and hearing to the vehicle or real property from which the sound or noise emanates so that the official can readily identify the offending source of the sound or noise and the distance involved. If the official is unable to have a direct line of sight and hearing to the vehicle or real property from which the sound or noise emanates, then the official shall confirm the source of the sound or noise by approaching the suspected vehicle or real property until the official is able to obtain a direct line of sight and hearing, and confirm the source of the sound or noise that was heard at the place of the original assessment of the sound or noise.

3. The official need not be required to identify song titles, artists, or lyrics in order to establish a violation. (Ord. 740 § 1.2, 2007)

11.80.060 Violation.

A. Violation of Sound Level Limits. Any person violating any of the provisions of this chapter shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punishable by a fine not to exceed one

thousand dollars (\$1,000.00) and/or six months in the county jail, or both. Notwithstanding the forgoing, any violation of the provisions of this chapter may, in the discretion of the citing officer or the city attorney, be cited and/or prosecuted as an infraction. Any person found guilty of an infraction hereunder shall be punished by a fine of not less than fifty dollars (\$50.00) nor more than one hundred dollars (\$100.00) for the first offense; a fine of not less than one hundred dollars (\$100.00), nor more than two hundred dollars (\$200.00) for the second offense. Any third or subsequent offense shall constitute a misdemeanor. Violations of this chapter may also be subject to civil citation pursuant to Chapter 1.10.

B. **Joint and Several Responsibility.** In addition to the person causing the offending sound, the owner, tenant or lessee of property, or a manager, overseer or agent, or any other person lawfully entitled to possess the property from which the offending sound is emitted at the time the offending sound is emitted, shall be responsible for compliance with this chapter if the additionally responsible party knows or should have known of the offending noise disturbance. It shall not be a lawful defense to assert that some other person caused the sound. The lawful possessor or operator of the premises shall be responsible for operating or maintaining the premises in compliance with this chapter and may be cited regardless of whether or not the person actually causing the sound is also cited.

C. **Violation May Be Declared a Public Nuisance.** The operation or maintenance of any device, equipment, instrument, vehicle or machinery in violation of any provisions of this chapter which endangers the public health, safety and quality of life of residents in the area is declared to be a public nuisance, and may be subject to abatement summarily or by a restraining order or injunction issued by a court of competent jurisdiction. (Ord. 740 § 1.2, 2007)

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APPENDIX 5.1:

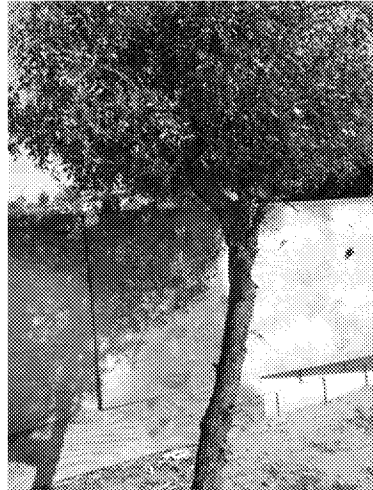
STUDY AREA PHOTOS

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JN:08870 Moreno Valley Walmart



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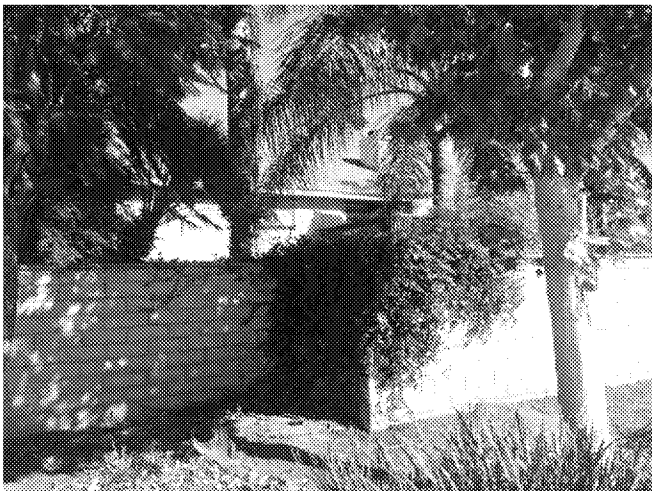
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APPENDIX 5.2:
NOISE LEVEL MEASUREMENT WORKSHEETS

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24-Hour Noise Level Measurement Summary

Project Name: Moreno Valley Walmart Noise Impact Analysis

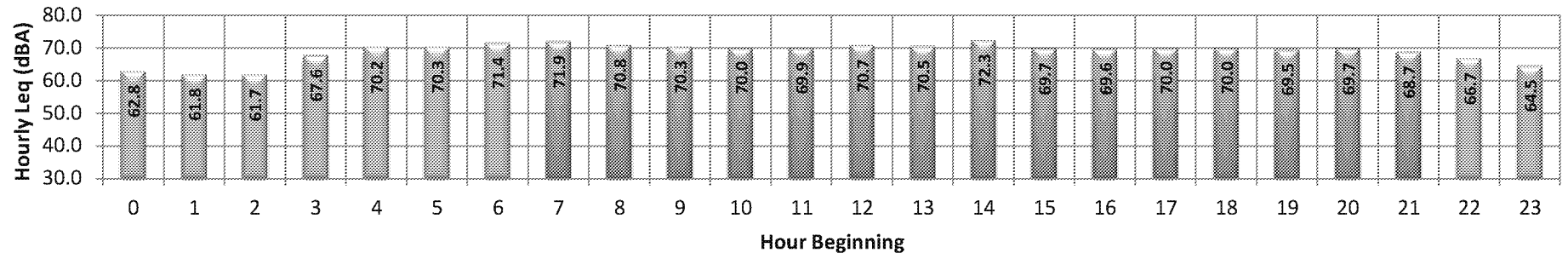
Job Number: 8870

Location: L1 - Located east of the Project site in front of the backyard wall of homes located on Ninya Avenue.

Analyst: Bill Lawson

Date: 10/2/2013

Hourly Leq dBA Readings (unadjusted)



Time Period	Energy Average (Leq)	Average (Leq)	Minimum (Leq)	Maximum (Leq)	CNEL
Daytime Hourly (7am-10pm):	70.3	70.2	68.7	72.3	
Nighttime Hourly (10pm-7am):	67.7	66.3	61.7	71.4	
24-Hour:	69.5	68.8	61.7	72.3	74.9

Hourly Summary

Time Period	Hour	Leq	Lmax	Lmin	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Night	0	62.8	82.9	41.2	74.5	72.5	69.0	66.5	57.0	48.0	43.5	43.0	42.0
	1	61.8	83.2	38.3	74.0	72.0	68.0	65.5	56.0	45.5	39.5	39.0	39.0
	2	61.7	77.7	37.3	73.5	72.0	69.0	66.5	57.5	45.5	39.0	39.0	38.0
	3	67.6	87.0	39.0	78.0	76.5	74.5	72.5	66.0	59.0	42.5	40.5	39.0
	4	70.2	95.7	42.6	79.0	77.5	75.5	74.5	69.0	63.0	49.5	46.5	44.5
	5	70.3	86.9	41.8	80.0	78.5	76.5	75.0	70.0	64.0	51.0	48.0	44.5
Day	6	71.4	87.3	42.7	79.5	78.5	77.5	76.5	72.0	66.5	54.5	49.5	45.0
	7	71.9	85.0	44.5	80.0	79.0	77.5	76.5	72.5	68.0	56.0	53.0	48.5
	8	70.8	88.3	43.2	80.0	78.5	76.5	75.0	71.0	66.5	55.0	51.5	47.0
	9	70.3	84.2	45.2	79.5	78.0	75.5	74.5	71.0	66.5	54.0	51.0	47.0
	10	70.0	84.2	44.9	78.5	77.5	75.5	74.5	70.5	66.5	53.5	51.0	46.5
	11	69.9	85.6	45.5	79.0	77.5	75.0	74.0	70.5	66.0	54.5	51.0	48.0
	12	70.7	86.5	45.1	79.5	78.0	76.0	75.0	71.0	66.5	56.0	52.5	47.5
	13	70.5	90.5	45.2	79.0	77.5	76.0	75.0	71.0	66.5	54.5	51.0	47.5
	14	72.3	98.8	44.9	79.5	77.5	75.0	74.0	70.5	65.5	55.0	52.5	48.5
	15	69.7	88.2	44.7	78.0	76.5	75.0	74.0	70.5	66.0	56.5	54.0	49.5
	16	69.6	83.4	45.9	77.5	76.5	75.0	74.0	70.5	66.0	56.5	54.5	51.0
	17	70.0	84.3	49.4	77.5	76.5	75.0	74.5	71.0	67.0	57.5	55.0	52.5
	18	70.0	87.3	45.1	79.0	77.5	75.5	74.5	70.5	66.0	55.5	53.0	49.5
	19	69.5	89.9	46.1	78.0	76.5	74.5	73.5	69.5	64.5	53.0	50.5	47.5
	20	69.7	95.6	45.4	77.5	76.5	74.5	73.0	69.0	64.0	53.0	51.0	48.0
	21	68.7	93.8	44.0	78.0	76.0	74.5	73.0	67.5	62.5	49.5	47.0	45.5
Night	22	66.7	81.5	41.3	77.0	75.5	73.5	72.0	65.5	58.5	45.0	44.0	43.0
	23	64.5	84.2	37.3	75.5	74.0	71.0	69.5	62.0	51.0	41.0	40.0	39.0

24-Hour Noise Level Measurement Summary

Project Name: Moreno Valley Walmart Noise Impact Analysis

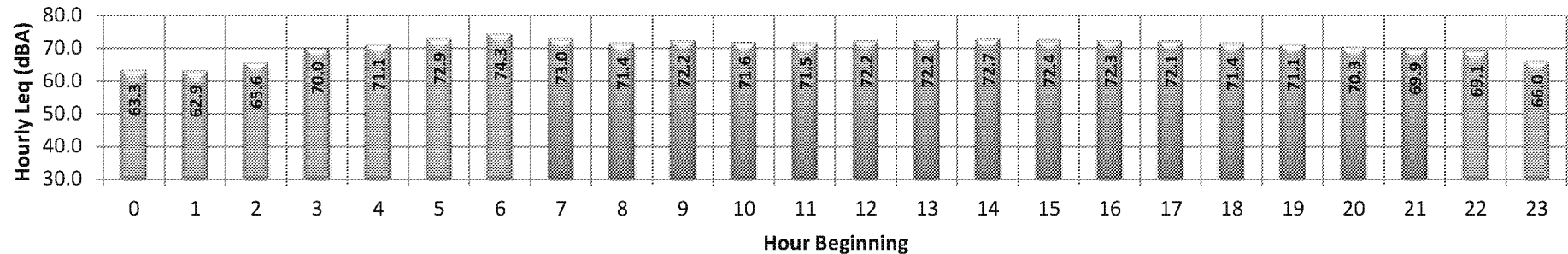
Job Number: 8870

Location: L2 - Located east of the Project site in front of the backyard wall of homes located on Wendy Way.

Analyst: Bill Lawson

Date: 10/4/2013

Hourly Leq dBA Readings (unadjusted)



Time Period	Energy Average (Leq)	Average (Leq)	Minimum (Leq)	Maximum (Leq)	CNEL
Daytime Hourly (7am-10pm):	71.8	71.8	69.9	73.0	
Nighttime Hourly (10pm-7am):	70.0	68.4	62.9	74.3	
24-Hour:	71.2	70.5	62.9	74.3	77.0

Hourly Summary

Time Period	Hour	Leq	Lmax	Lmin	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Night	0	63.3	87.7	39.6	76.0	74.0	69.0	65.5	53.5	46.0	41.0	40.5	40.5
	1	62.9	83.3	40.6	76.0	74.0	68.5	66.0	54.5	46.0	42.0	41.5	40.5
	2	65.6	82.8	40.7	77.5	76.0	72.5	70.0	61.5	51.5	43.5	42.5	41.0
	3	70.0	89.4	42.6	80.5	78.5	76.5	75.0	67.5	60.5	48.0	46.0	44.5
	4	71.1	89.8	48.9	81.5	80.0	77.5	76.0	70.0	63.5	53.0	51.5	50.0
	5	72.9	91.0	50.1	83.0	81.5	78.5	77.0	72.5	66.5	54.5	53.0	51.5
Day	6	74.3	89.7	51.4	83.0	82.0	80.0	79.0	74.8	69.5	58.5	56.5	53.5
	7	73.0	87.6	48.6	81.0	80.0	78.5	77.5	73.5	69.0	59.0	56.0	51.0
	8	71.4	87.2	43.8	80.0	79.0	77.0	76.0	72.0	67.0	53.5	50.0	46.0
	9	72.2	90.4	46.0	81.5	80.0	77.5	76.5	72.5	67.5	55.0	52.5	49.0
	10	71.6	85.8	41.7	80.5	79.5	77.5	76.0	72.0	67.0	55.5	52.0	47.5
	11	71.5	86.8	41.6	80.5	79.0	77.0	76.0	72.0	67.5	55.0	51.0	45.0
	12	72.2	90.7	40.7	81.0	79.5	77.5	76.5	72.5	67.5	54.0	50.0	44.0
	13	72.2	90.9	44.1	80.5	79.5	78.0	77.0	73.0	68.0	54.5	51.0	47.0
	14	72.7	91.6	43.0	81.5	80.0	78.0	77.0	73.5	68.5	56.5	53.5	49.5
	15	72.4	91.0	44.7	80.5	79.5	78.0	76.5	73.0	68.5	57.0	53.0	48.5
	16	72.3	89.8	47.2	80.5	79.5	78.0	76.5	73.0	68.5	57.0	54.0	50.5
	17	72.1	86.5	47.7	80.5	79.5	77.5	76.5	73.0	68.5	58.5	56.5	51.5
	18	71.4	87.6	47.0	80.0	78.5	77.0	76.0	72.5	67.0	54.5	52.0	48.5
	19	71.1	94.7	45.5	79.5	78.5	76.5	75.5	70.5	65.5	54.5	51.5	47.0
	20	70.3	89.3	44.3	80.0	78.5	76.5	75.0	70.0	64.5	52.0	49.5	46.5
	21	69.9	89.1	41.2	80.0	78.5	76.0	74.5	68.5	62.0	49.5	47.0	43.0
Night	22	69.1	97.1	39.5	78.0	76.5	74.5	73.0	66.0	59.5	47.0	44.5	42.0
	23	66.0	85.8	39.3	77.5	75.5	73.0	71.0	63.5	55.0	45.0	43.5	41.0

24-Hour Noise Level Measurement Summary

Project Name: Moreno Valley Walmart Noise Impact Analysis

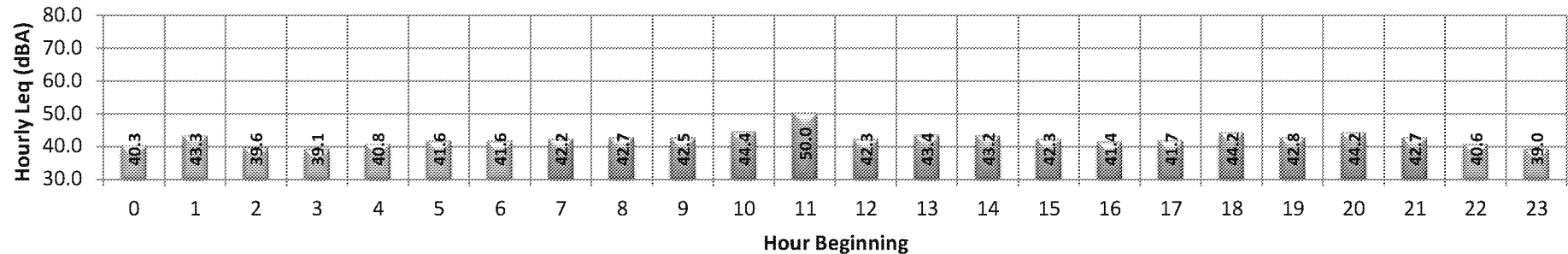
Job Number: 8870

Location: L3 - Located north of the Project site in front of the backyard wall of homes located on Fay Avenue.

Analyst: Bill Lawson

Date: 10/2/2013

Hourly Leq dBA Readings (unadjusted)



Time Period	Energy Average (Leq)	Average (Leq)	Minimum (Leq)	Maximum (Leq)	CNEL
Daytime Hourly (7am-10pm):	44.0	43.3	41.4	50.0	
Nighttime Hourly (10pm-7am):	40.9	40.7	39.0	43.3	
24-Hour:	43.1	42.3	39.0	50.0	48.3

Hourly Summary

Time Period	Hour	Leq	Lmax	Lmin	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Night	0	40.3	58.7	37.7	45.0	44.5	43.0	42.5	40.0	39.5	37.5	37.5	37.5
	1	43.3	51.3	39.0	49.0	48.0	46.0	45.5	43.5	42.5	39.5	39.5	39.5
	2	39.6	48.0	37.8	43.0	42.5	41.5	41.0	39.5	39.5	37.5	37.5	37.5
	3	39.1	48.7	37.8	42.5	41.5	40.0	39.5	39.5	38.5	37.5	37.5	37.5
	4	40.8	50.4	37.8	46.5	45.5	44.0	42.5	40.5	39.5	38.0	37.5	37.5
	5	41.6	58.0	37.8	46.5	45.5	43.5	42.5	41.5	40.5	39.5	39.5	39.0
Day	6	41.6	52.5	37.8	47.5	46.0	44.0	43.5	41.5	40.5	39.5	39.0	37.5
	7	42.2	50.7	39.4	47.0	45.5	44.0	43.5	42.5	41.5	40.5	40.5	39.5
	8	42.7	65.4	39.5	48.5	46.0	44.0	43.5	42.0	41.0	40.0	39.5	39.5
	9	42.5	52.4	40.2	46.5	45.5	44.0	43.5	42.5	42.0	40.5	40.5	40.5
	10	44.4	50.4	42.1	47.0	46.0	45.5	45.0	44.5	44.0	43.0	43.0	42.5
	11	50.0	66.1	41.7	59.5	58.5	56.5	55.0	49.0	43.0	42.5	42.0	41.5
	12	42.3	53.5	40.8	47.0	46.0	44.0	43.5	42.0	41.5	40.5	40.5	40.5
	13	43.4	60.1	40.7	54.5	49.5	45.0	43.5	41.5	41.0	40.5	40.5	40.5
	14	43.2	55.6	40.7	50.5	49.5	47.5	46.0	42.5	41.5	40.5	40.5	40.5
	15	42.3	54.9	39.6	49.5	48.0	45.0	43.5	41.5	40.5	40.5	40.5	40.0
	16	41.4	53.3	39.5	48.0	46.0	43.5	42.5	41.0	40.5	39.5	39.5	39.5
	17	41.7	55.3	39.1	48.0	46.5	45.0	44.0	41.5	40.5	39.5	39.5	39.5
	18	44.2	66.4	37.8	55.5	51.5	47.5	45.5	42.0	40.5	39.5	39.5	39.5
	19	42.8	63.0	37.8	51.0	49.0	46.5	45.0	42.0	40.5	39.0	38.0	37.5
	20	44.2	64.5	37.8	53.5	51.5	48.0	45.5	41.5	40.5	39.5	39.0	37.5
	21	42.7	65.5	37.8	52.0	49.0	45.5	43.5	40.5	39.5	37.5	37.5	37.5
Night	22	40.6	60.8	37.4	49.5	46.5	43.0	41.5	39.5	37.5	37.5	37.5	37.5
	23	39.0	57.9	37.2	45.0	43.5	41.5	40.5	38.0	37.5	37.5	37.5	37.5

24-Hour Noise Level Measurement Summary

Project Name: Moreno Valley Walmart Noise Impact Analysis

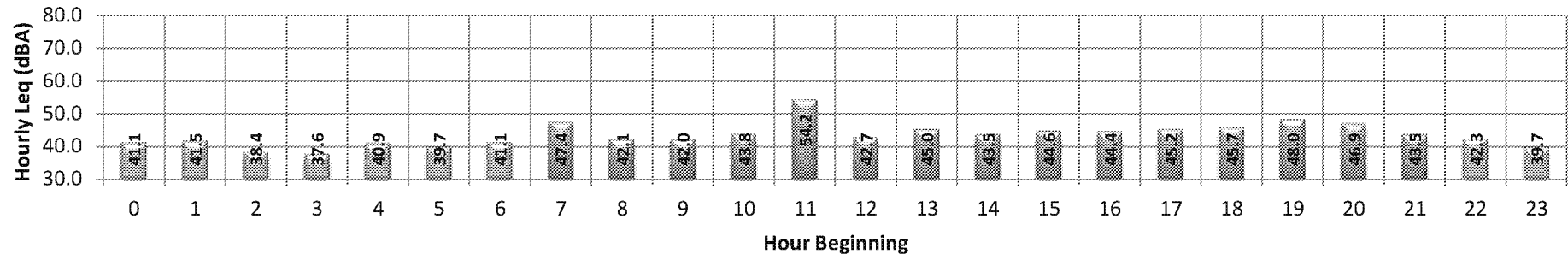
Job Number: 8870

Location: L4 - Located west of the Project site north of the baseball diamond at the March Middle School.

Analyst: Bill Lawson

Date: 10/2/2013

Hourly Leq dBA Readings (unadjusted)



Time Period	Energy Average (Leq)	Average (Leq)	Minimum (Leq)	Maximum (Leq)	CNEL
Daytime Hourly (7am-10pm):	46.7	45.3	42.0	54.2	
Nighttime Hourly (10pm-7am):	40.5	40.3	37.6	42.3	
24-Hour:	45.3	43.4	37.6	54.2	49.2

Hourly Summary

Time Period	Hour	Leq	Lmax	Lmin	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Night	0	41.1	58.9	37.4	47.0	45.0	43.0	42.5	41.0	40.0	39.0	39.0	38.0
	1	41.5	51.8	38.9	46.0	44.5	43.5	43.0	42.0	41.0	39.0	39.0	39.0
	2	38.4	45.2	37.2	42.0	41.5	40.5	40.0	39.0	37.0	37.0	37.0	37.0
	3	37.6	45.2	37.2	40.5	39.5	39.0	38.5	37.5	37.0	37.0	37.0	37.0
	4	40.9	51.8	37.3	46.0	45.0	43.5	42.5	41.0	40.0	39.0	39.0	37.0
	5	39.7	49.8	37.3	44.0	43.0	42.0	41.0	40.0	39.0	37.0	37.0	37.0
Day	6	41.1	53.7	37.3	47.5	46.0	44.0	43.0	41.0	40.0	37.5	37.0	37.0
	7	47.4	74.3	38.9	56.5	54.0	50.0	47.5	43.5	41.5	40.0	39.0	39.0
	8	42.1	60.5	37.5	50.5	48.5	45.5	44.0	41.0	40.0	39.0	39.0	38.5
	9	42.0	61.2	37.4	47.5	45.5	44.0	43.5	42.0	40.5	39.0	39.0	37.5
	10	43.8	60.4	39.8	53.0	50.5	46.0	45.0	43.0	42.0	41.0	40.5	40.0
	11	54.2	72.1	39.1	64.5	63.5	61.5	59.0	52.5	42.0	40.0	40.0	39.0
	12	42.7	60.5	37.4	51.5	49.5	46.5	45.0	42.0	40.5	39.0	39.0	37.5
	13	45.0	67.3	37.4	55.0	53.0	48.0	45.5	41.5	40.0	39.0	39.0	38.5
	14	43.5	66.0	37.6	52.5	51.0	48.5	46.5	42.0	40.0	39.0	39.0	39.0
	15	44.6	58.2	39.0	53.0	51.0	49.0	47.5	44.0	42.5	40.0	40.0	39.0
	16	44.4	56.6	39.1	52.0	50.0	48.0	47.0	44.5	42.5	41.0	40.5	40.0
	17	45.2	55.9	40.3	52.0	51.0	48.5	47.5	45.0	43.5	42.0	41.5	41.0
	18	45.7	61.7	41.3	51.0	50.5	49.0	48.0	46.0	44.5	43.0	42.5	42.0
	19	48.0	69.3	40.1	60.0	55.0	50.0	48.0	45.0	43.5	42.0	41.5	40.5
	20	46.9	68.3	40.4	56.5	51.5	48.0	47.0	45.0	44.0	42.0	42.0	41.0
	21	43.5	59.1	39.1	51.5	49.5	46.0	45.0	43.0	42.0	40.5	40.0	39.5
Night	22	42.3	59.2	37.4	50.0	47.0	44.0	43.5	42.0	41.0	39.5	39.0	39.0
	23	39.7	54.8	37.2	46.5	45.0	42.5	41.5	39.5	38.5	37.0	37.0	37.0

24-Hour Noise Level Measurement Summary

Project Name: Moreno Valley Walmart Noise Impact Analysis

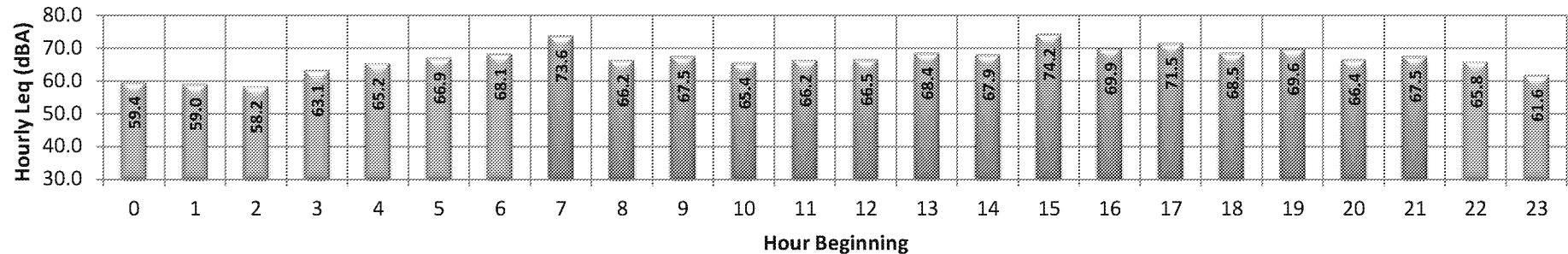
Job Number: 8870

Location: L5 - Located west of the Project site and Indian Street in front of the backyard of homes on Electra Court.

Analyst: Bill Lawson

Date: 10/4/2013

Hourly Leq dBA Readings (unadjusted)



Time Period	Energy Average (Leq)	Average (Leq)	Minimum (Leq)	Maximum (Leq)	CNEL
Daytime Hourly (7am-10pm):	69.5	68.6	65.4	74.2	
Nighttime Hourly (10pm-7am):	64.3	63.0	58.2	68.1	
24-Hour:	68.2	66.5	58.2	74.2	72.4

Hourly Summary

Time Period	Hour	Leq	Lmax	Lmin	L1%	L2%	L5%	L8%	L25%	L50%	L90%	L95%	L99%
Night	0	59.4	81.7	41.7	73.0	70.5	63.0	58.0	46.5	43.5	42.5	41.5	41.5
	1	59.0	82.1	42.6	73.0	70.0	62.5	58.5	48.0	45.0	43.5	43.0	43.0
	2	58.2	80.2	42.6	72.0	69.5	63.0	58.5	48.0	44.5	43.0	43.0	42.5
	3	63.1	85.1	43.4	74.5	73.0	70.0	67.5	57.0	50.0	45.0	44.5	43.5
	4	65.2	85.3	46.8	76.5	74.5	72.0	70.0	61.0	54.5	48.5	48.0	47.5
	5	66.9	88.6	47.9	77.5	76.0	73.0	71.5	63.5	56.5	51.0	50.5	49.0
Day	6	68.1	83.4	50.8	77.0	76.0	74.0	72.5	68.5	62.5	54.5	53.5	51.5
	7	73.6	102.8	43.9	77.5	75.0	73.0	71.5	67.5	61.0	52.0	49.5	46.0
	8	66.2	83.7	38.4	76.5	74.5	72.0	71.0	66.0	58.5	44.5	42.5	40.5
	9	67.5	93.3	39.5	76.0	74.5	72.0	70.5	65.0	57.0	44.0	42.0	40.0
	10	65.4	84.5	39.4	75.0	74.0	72.0	70.5	65.0	56.5	43.5	42.0	40.0
	11	66.2	87.4	39.6	75.5	74.5	72.5	71.0	66.0	58.5	46.0	44.0	42.0
	12	66.5	89.1	39.2	76.0	74.5	72.5	71.5	65.5	57.0	43.5	42.0	39.5
	13	68.4	91.7	40.8	77.5	75.5	73.5	72.5	68.5	63.5	49.5	46.5	42.5
	14	67.9	83.9	41.2	76.5	75.5	73.5	72.5	68.5	63.5	51.5	49.0	44.0
	15	74.2	104.9	42.4	78.5	76.5	74.5	73.0	69.0	62.5	50.5	48.0	44.5
	16	69.9	91.9	45.3	79.0	76.5	74.5	73.5	69.5	64.0	52.0	50.0	47.0
	17	71.5	96.6	46.9	80.0	77.5	75.0	74.0	70.0	65.0	54.0	52.0	49.0
	18	68.5	89.9	45.3	77.5	75.5	73.5	72.5	68.5	62.0	51.5	49.5	47.5
	19	69.6	94.8	43.8	80.0	76.5	74.0	72.5	67.5	59.5	48.0	46.5	45.0
	20	66.4	86.4	42.6	75.5	74.5	73.0	71.5	66.5	59.0	49.0	47.5	45.0
Night	21	67.5	92.5	44.1	78.0	75.5	73.0	71.5	64.5	56.5	48.0	47.0	45.0
	22	65.8	88.8	44.4	76.0	74.5	72.0	70.0	62.0	54.5	47.0	46.0	45.0
	23	61.6	83.6	43.1	73.5	72.0	68.5	65.5	55.0	49.5	45.0	44.5	43.5

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APPENDIX 7.1:

TRAFFIC NOISE CONTOURS

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Scenario: Existing Road Name: Sunnymead Boulevard Road Segment: Perris Boulevard to SR-60 EB On-Ramp				Project Name: Moreno Valley Valtmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 17,160 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,716 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.267			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 89.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	-17.76	-2.48	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-17.72	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-21.67	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.0	63.7	61.8	59.6	64.5	65.1	
Medium Trucks	59.0	57.6	51.1	45.6	58.0	58.3	
Heavy Trucks	58.0	57.6	48.6	48.0	58.2	58.3	
Vehicle Noise	67.2	65.4	62.4	57.6	66.1	66.6	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	95	119	256	552			
CNCEL	59	128	275	563			

Friday, November 6R, 2013

Friday, November 08, 2013

Scenario: Existing Road Name: Eucalyptus Avenue Road Segment: East of Perris Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 6,816 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 886 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.297				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 89.545				
Left View: -90.0 degrees					Medium Trucks: 89.858				
Right View: 90.0 degrees					Heavy Trucks: 89.885				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	-3.07	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	77.72	-20.30	-4.81	-1.29	-4.89	0.000	0.000	0.000	
Heavy Trucks	82.89	-24.26	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.6	66.7	64.0	61.8	67.8	66.5	67.1	57.7	
Medium Trucks	61.6	60.1	43.7	42.2	60.8	60.8	60.9	50.0	
Heavy Trucks	62.6	61.5	42.5	43.7	62.1	62.1	62.1	52.2	
Vehicle Noise	66.6	67.9	64.6	60.1	66.8	66.8	66.8	58.9	
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	17	38	61	174					
CNCEL	18	40	67	187					

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Friday, November 08, 2013

Scenario: Existing Road Name: Cottonwood Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt):		9,720 vehicles		Autos:		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		972 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed:		45 mph		Vehicle Mix				
Near/Far Lane Distance:		24 feet						
Site Data				Vehicle Type				
Barrier Height:		0.0 feet		Autos:	77.5%	12.9%	8.6%	87.42%
Barrier Type (0-Wall, 1-Berm):		0.0		Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Barrier:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Observer:		100.0 feet		Noise Source Elevations (in feet)				
Barrier Distance to Observer:		0.0 feet						
Observer Height (above Pad):		5.0 feet		Autos:	0.000			
Pad Elevation:		0.0 feet		Medium Trucks:	2.267			
Road Elevation:		0.0 feet		Heavy Trucks:	8.006			
Road Grade:		0.0%		Grade Adjustment: 0.0				
Left View:		-90.0 degrees		Lane Equivalent Distances (in feet)				
Right View:		90.0 degrees						
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	-66.46	-2.07	-4.59	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	76.46	-18.31	-4.57	-1.20	-4.85	0.000	0.000	0.000
Heavy Trucks	84.25	-23.27	-4.57	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	60.8	58.7	56.8	54.8	59.5	60.1		
Medium Trucks	54.4	52.9	46.5	44.8	53.4	53.6		
Heavy Trucks	55.2	53.0	44.8	45.0	54.4	54.5		
Vehicle Noise	62.4	60.7	57.6	52.6	61.4	61.6		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	27	58	124	288				
CNCEL	29	62	133	287				

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FWHA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.54	-3.74	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-15.70	-3.73	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	86.40	-19.66	-3.73	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	69.4	65.6	64.7	56.7	67.3	67.9
Medium Trucks	81.8	60.3	59.8	52.4	60.8	61.1
Heavy Trucks	81.8	60.4	51.4	52.6	61.0	61.1
Vehicle Noise	70.0	66.2	65.2	60.4	68.9	69.4

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	95	163	384	848
CNEL	91	157	424	912

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FWHA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.33	-3.74	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-15.91	-3.73	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	86.40	-19.87	-3.73	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	68.7	66.3	64.5	58.5	67.1	67.7
Medium Trucks	81.6	60.1	59.7	52.2	60.8	60.9
Heavy Trucks	81.6	60.2	51.1	52.4	60.7	60.8
Vehicle Noise	69.0	66.0	65.0	60.2	68.7	69.2

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	82	177	381	821
CNEL	88	190	410	883

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FWHA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.81	-3.74	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-18.90	-3.73	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	86.40	-20.22	-3.73	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	67.7	65.8	64.1	58.0	66.6	67.2
Medium Trucks	81.1	59.5	59.2	51.7	60.2	60.4
Heavy Trucks	81.1	59.7	50.7	51.9	60.3	60.4
Vehicle Noise	69.3	67.5	64.6	59.7	60.3	60.7

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	77	165	355	788
CNEL	82	177	382	824

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FWHA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.76	-3.74	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-16.47	-3.73	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	86.40	-20.43	-3.73	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	67.5	65.8	64.5	57.6	66.5	67.1
Medium Trucks	81.0	59.6	59.1	51.8	60.0	60.3
Heavy Trucks	81.0	59.6	50.6	51.8	60.2	60.3
Vehicle Noise	68.2	67.4	64.5	58.6	68.2	68.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	75	162	346	753
CNEL	81	175	376	810

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FWHA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.59	-3.74	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-16.94	-3.73	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	86.40	-20.80	-3.73	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	67.4	65.8	64.5	57.7	66.3	66.9
Medium Trucks	80.8	59.3	59.0	51.4	59.9	60.1
Heavy Trucks	80.8	59.4	50.4	51.7	60.0	60.1
Vehicle Noise	68.0	67.3	64.3	59.4	68.0	68.5

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	73	158	340	734
CNEL	78	170	368	789

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FWHA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-0.27	-4.52	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-17.51	-4.51	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	86.40	-21.48	-4.51	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	65.8	63.8	62.1	56.1	64.7	65.3
Medium Trucks	59.2	57.7	57.3	49.8	58.2	58.5
Heavy Trucks	59.2	57.0	49.0	50.0	50.4	50.5
Vehicle Noise	67.4	65.6	62.7	57.6	66.3	66.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	57	123	264	573
CNEL	61	132	284	613

Friday, November 08, 2013

Scenario: Existing Road Name: Cactus Avenue Road Segment: West of I-215 Freeway				Project Name: Moreno Valley Valtmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 12,516 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,258 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Vehicle/Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 67.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet) Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 89.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	1.93	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.07	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-23.02	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	64.2	62.3	60.6	54.5	63.1	63.7	
Medium Trucks	57.8	58.1	49.8	48.2	58.7	58.9	
Heavy Trucks	57.7	55.2	47.2	48.5	56.8	56.9	
Vehicle Noise	65.8	64.1	61.1	56.2	64.0	65.3	
Centerline Distance to Noise Contour (in feet)							
		70 dBA	65 dBA	60 dBA	55 dBA		
Ldn:		45	97	206	448		
CNEL:		49	104	224	482		

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Scenario: Existing Road Name: Cactus Avenue Road Segment: I-215 SB Ramps to I-215 NB Flamps					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,548 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,255 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0=Wall, 1=Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 83.494 Medium Trucks: 86.404 Heavy Trucks: 89.413				
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.71	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.03	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.49	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (with Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.8	64.8	63.1	57.1	66.7	66.3			
Medium Trucks	60.2	58.7	52.3	50.7	59.2	59.4			
Heavy Trucks	60.2	56.8	46.7	51.0	59.3	59.5			
Vehicle Noise	66.3	66.6	63.8	58.8	67.3	67.8			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ldn:		88	143	307	882				
CNEL:		71	153	330	712				

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Scenario: Existing Road Name: Cactus Avenue Road Segment: East of I-215 NB Flaps				Project Name: Moreno Valley Wal-Mart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 34,844 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,484 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet) Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 89.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	2.97	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-14.69	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-18.62	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	68.8	66.7	65.0	58.8	67.6	68.1	
Medium Trucks	62.0	60.5	54.2	52.9	61.1	61.2	
Heavy Trucks	62.1	59.6	51.8	52.9	61.2	61.3	
Vehicle Noise	70.2	69.5	65.5	60.6	69.2	69.7	
Centerline Distance to Noise Contour (in feet)							
		70 dBA	65 dBA	60 dBA	55 dBA		
Ldn:		86	130	408	881		
CNEL:		86	204	440	948		

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Scenario: Existing Road Name: Cactus Avenue Road Segment: West of Elsworth Street					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 34,862 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,486 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	Berm Alln	
Autos	71.78	2.90	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-14.73	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-18.68	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Lea Peak Hour	Lea Day	Lea Evening	Lea Night	Lea	CNEL			
Autos	89.5	85.7	84.9	86.6	87.5	88.1	88.1	88.1	88.1
Medium Trucks	92.0	90.4	89.1	91.5	91.0	91.1	91.1	91.1	91.1
Heavy Trucks	92.0	90.6	89.5	91.8	91.1	91.1	91.1	91.1	91.1
Vehicle Noise	70.1	68.4	67.4	69.6	68.1	68.1	68.1	68.1	68.1
Centerline Distances to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Lea	87	188	465	872					
CNEL	94	202	435	939					
Friday, November 08, 2013									

Scenario: Existing Road Name: Cactus Avenue Road Segment: East of Frederick Street				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 32,544 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15				
Peak Hour Volume: 3,254 vehicles				Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 55 mph								
Near/Far Lane Distance: 80 feet								
Site Data				Vehicle Mix				
Barrier Height: 0.0 feet				Vehicle/Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0				Autos	77.5%	12.9%	8.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks	94.8%	4.9%	10.3%	1.94%
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet								
Observer Height (Above Pad): 5.0 feet				Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet				Autos: 0.000				
Road Elevation: 0.0 feet				Medium Trucks: 2.287				
Road Grade: 0.0%				Heavy Trucks: 8.008				
Left View: -90.0 degrees				Grade Adjustment: 0.0				
Right View: 80.0 degrees								
FWHA Noise Model Calculations				Lane Equivalent Distance (in feet)				
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.78	2.30	-3.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-14.94	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-18.86	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL		
Autos	69.1	67.2	65.6	55.4	68.1	66.7		
Medium Trucks	82.5	61.0	54.7	53.1	61.8	61.8		
Heavy Trucks	82.6	61.2	52.1	53.4	61.7	61.9		
Vehicle Noise	70.7	69.0	66.0	61.1	68.7	70.2		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	95	205	443	954				
CNSEL	103	221	476	1,026				
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Scenario: Existing					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: West of Graham Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 31,536 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,154 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 80 feet					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
					Autos:	77.5%	12.9%	6.6%	87.42%
					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Site Data					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet					Autos: 0.000				
Barrier Type (0-Wall, 1-Berm):					Medium Trucks: 2.287				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 8.006				
Centerline Dist. to Observer: 100.0 feet					Grade Adjustment: 0.0				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%									
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FWHA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos:	71.78	2.17	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks:	82.40	-15.07	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks:	86.40	-19.03	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos:	68.0	67.1	65.3	58.3	67.8	68.5			
Medium Trucks:	82.4	60.9	54.5	53.0	61.4	61.7			
Heavy Trucks:	82.4	61.0	52.0	53.2	61.5	61.7			
Vehicle Noise:	70.6	69.0	65.9	61.0	69.5	70.0			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 93 201 433 934									
CNSEL: 100 216 468 1,006									

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Scenario: Existing Road Name: Cactus Avenue Road Segment: East of Graham Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 28,232 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,623 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -80.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FWHA Noise Model Calculations									
Vehicle Type		RECEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos		71.76	1.37	-3.74	-1.20	-4.77	0.000	0.000	
Medium Trucks		82.40	-15.87	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks		86.40	-18.83	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	68.2	69.3	64.5	58.5	67.1	67.7			
Medium Trucks	61.6	60.1	53.7	52.2	60.7	60.8			
Heavy Trucks	61.9	60.2	52.4	52.4	60.6	60.6			
Vehicle Noise	69.9	69.9	65.7	63.2	69.6	69.2			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	61 dBA	55 dBA				
Ldn		83	178	263	328				
CNSEL		89	181	412	866				
Friday, November 06, 2015									

Scenario: Existing				Project Name: Moreno Valley Vismart				
Road Name: Cactus Avenue				Job Number: 8870				
Road Segment: East of Indian Street								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 16,362 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,639 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph								
Near/Far Lane Distance: 36 feet								
Site Data				Vehicle Mix				
Barrier Height: 0.0 feet				Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berry): 0.0				Autos	77.5%	12.9%	9.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks	84.8%	4.9%	10.3%	1.94%
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet				Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.6 feet				Autos	0.000			
Pad Elevation: 0.0 feet				Medium Trucks	2.287			
Road Elevation: 0.6 feet				Heavy Trucks	8.008	Grade Adjustment:	0.0	
Road Grade: 0.0%				Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees				Autos	38.494			
Right View: 90.0 degrees				Medium Trucks	89.404			
				Heavy Trucks	89.413			
FHWA Noise Model Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.78	-2.96	-4.52	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-17.91	-4.51	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-21.87	-4.51	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	65.4	63.6	61.7	55.7	64.3	64.9		
Medium Trucks	58.8	57.3	55.9	49.4	57.8	58.1		
Heavy Trucks	58.8	57.4	49.4	48.6	58.0	58.1		
Vehicle Noise	67.0	65.2	62.2	57.4	65.9	66.4		
Centerline Distance to Noise Contour (in feet)								
				70 dBA	65 dBA	60 dBA	55 dBA	
Ldn				94	115	246	535	
CNEL				59	124	287	576	

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Scenario: Existing										Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue										Job Number: 8870				
Road Segment: West of Parris Boulevard														
SITE SPECIFIC INPUT DATA										NOISE MODEL INPUTS				
Highway Data										Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 14,364 vehicles										Autos: 15				
Peak Hour Percentage: 10%										Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,406 vehicles										Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph														
Near/Far Lane Distance: 36 feet														
Site Data										Vehicle Mix				
										Vehicle Type	Day	Evening	Night	Daily
										Autos:	77.5%	12.9%	6.8%	67.42%
										Medium Trucks:	84.8%	4.9%	10.3%	1.84%
										Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Height: 0.0 feet										Noise Source Elevations (in feet)				
Barrier Type (0-Wall, 1-Berm): 0.0										Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet										Medium Trucks: 2.297				
Centerline Dist. to Observer: 100.0 feet										Heavy Trucks: 8.006				
Barrier Distance to Observer: 0.0 feet										Grade Adjustment: 0.0				
Observer Height (Above Pad): 5.0 feet														
Pad Elevation: 0.0 feet														
Road Elevation: 0.0 feet														
Road Grade: 0.0%														
Left View: -90.0 degrees														
Right View: 90.0 degrees														
FHWA Noise Model Calculations										Lane Equivalent Distance (in feet)				
										Autos: 89.494				
										Medium Trucks: 66.404				
										Heavy Trucks: 59.413				
FHWA Noise Model Calculations														
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten							
Autos	71.78	-1.34	-4.52	-1.20	-4.77	0.000	0.000							
Medium Trucks	82.40	-18.58	-4.51	-1.20	-4.80	0.000	0.000							
Heavy Trucks	86.40	-22.94	-4.51	-1.20	-5.16	0.000	0.000							
Unmitigated Noise Levels (without Topo and barrier attenuation)														
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL								
Autos	64.7	62.8	61.1	55.0	63.5	64.2								
Medium Trucks	58.1	56.6	50.2	49.7	57.2	57.4								
Heavy Trucks	58.1	56.7	47.7	48.9	57.3	57.4								
Vehicle Noise	66.3	64.5	61.8	58.7	65.3	65.7								
Centerline Distance to Noise Contour (in feet)														
										70 dBA	65 dBA	60 dBA	55 dBA	
Ldn										48	104	224	489	
CNEL										52	112	241	520	

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Scenario: Existing Road Name: Cactus Avenue Road Segment: East of Parris Boulevard				Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 13,778 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,378 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph				Vehicle Mix				
Near/Far Lane Distance: 36 feet				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos:	77.5%	12.9%	8.9%	67.42%
Barrier Height: 0.0 feet				Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet				Autos:	0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks:	2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks:	8.006	Grade Adjustment:	0.0	
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet				Autos:	38.494			
Road Grade: 0.0%				Medium Trucks:	86.404			
Left View: -90.0 degrees				Heavy Trucks:	86.413			
Right View: 90.0 degrees								
FHWA Noise Model Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.78	-1.43	-4.52	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-18.67	-4.51	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-22.63	-4.51	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	64.8	62.7	61.0	54.8	63.6	64.1		
Medium Trucks	58.0	56.5	50.2	49.9	57.1	57.2		
Heavy Trucks	58.1	56.6	47.6	48.0	57.2	57.3		
Vehicle Noise	66.2	64.4	61.5	56.6	65.2	65.6		
Centerline Distance to Noise Contour (in feet)								
				70 dBA	65 dBA	60 dBA	55 dBA	
Ldn				48	103	221	477	
CNEL				51	110	238	513	
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Scenario: Existing Road Name: Cactus Avenue Road Segment: East of Kitching Street					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,965 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 1,066 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Day				
Barrier Type: (0-Wall, 1-Berry): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 94.9% 4.9% 10.3% 1.94%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet					Noise Source Elevations (in feet)				
Observer Height Above Road: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 0.000				
Left View: -50.0 degrees					Grade Adjustment: 0.0				
Right View: 80.0 degrees					Lane Equivalent Distance (in feet)				
					Autos: 98.494				
					Medium Trucks: 98.004				
					Heavy Trucks: 99.413				
FHWA Noise Roadway Calculations									
Vehicle Type	REWEI	Traffic Flow	Distance	Freight Road	Freight	Barrier Adj	Berm Adj	Berm Allen	
Autos	71.78	-2.43	-4.52	-1.20	-2.77	0.000	0.000	0.000	
Medium Trucks	82.40	-18.86	-4.51	-1.20	-4.86	0.000	0.000	0.000	
Heavy Trucks	96.40	-23.62	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	83.4	61.7	60.0	57.6	62.5	65.1			
Medium Trucks	57.0	55.5	49.2	47.8	58.1	58.3			
Heavy Trucks	57.1	55.6	48.6	47.8	56.2	56.2			
Vehicle Noise	65.2	63.5	60.5	55.9	64.2	64.2			
Centerline Distances to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln	41	88	150	425					
CNEL	44	85	264	440					
Friday, November 08, 2013									

Scenario: Existing Road Name: John F. Kennedy Drive Road Segment: West of Indian Street				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 9,038 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 904 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
				Autos	77.5%	12.9%	9.6%	67.42%
				Medium Trucks	84.8%	4.9%	10.3%	1.94%
				Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Site Data				Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet)				
				Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	-3.28	-4.52	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-20.50	-4.51	-1.20	-4.80	0.000	0.000	
Heavy Trucks	98.40	-24.46	-4.51	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	62.8	60.8	59.1	53.1	61.7	62.3		
Medium Trucks	58.2	54.7	49.3	48.8	55.2	55.5		
Heavy Trucks	55.2	54.0	45.8	47.0	55.4	55.5		
Vehicle Noise	64.4	62.6	58.7	54.0	63.3	63.8		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	36	78	167	360				
CNEL	39	81	180	367				

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FHWA Noise Model Calculations									
Scenario: Existing Road Name: John F. Kennedy Drive Road Segment: East of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 9,106 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 911 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
					Autos:	77.5%	12.9%	6.8%	87.42%
					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Site Data					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.23	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-20.47	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-24.42	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNCEL			
Autos	62.8	60.8	58.2	53.1	61.7	62.3			
Medium Trucks	56.2	54.7	48.8	48.8	55.3	55.5			
Heavy Trucks	55.2	54.0	45.8	47.1	55.4	55.5			
Vehicle Noise	64.4	62.8	58.7	54.8	63.4	63.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	36	78	168	362					
CNCEL	38	84	181	369					

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Scenario: Existing Road Name: John F. Kennedy Drive Road Segment: West of Perris Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 9,048 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 905 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
				Autos: 77.5% 12.9% 8.9% 87.42%			
				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Site Data				Noise Source Elevations (in feet)			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -80.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 98.454 Medium Trucks: 98.404 Heavy Trucks: 98.413			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-3.28	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-20.50	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	98.40	-24.45	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNCEL	
Autos	63.8	60.8	59.1	53.1	61.7	62.3	
Medium Trucks	58.2	54.7	48.3	48.8	55.2	55.5	
Heavy Trucks	55.2	54.0	45.8	47.0	55.4	55.5	
Vehicle Noise	64.4	62.6	58.7	54.0	63.3	63.8	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	36	78	167	360			
CNCEL	39	83	180	367			

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Scenario: Existing Road Name: John F. Kennedy Drive Road Segment: East of Harris Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,144 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 814 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Lane Equivalent Distance (in feet)				
					Autos: 98.494				
					Medium Trucks: 98.404				
					Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.21	-4.52	-1.20	-2.77	0.000	0.000		
Medium Trucks	82.40	-26.45	-4.51	-1.20	-4.86	0.000	0.000		
Heavy Trucks	86.40	-24.41	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	82.9	61.0	59.2	53.1	61.8	62.2			
Medium Trucks	58.2	54.7	49.4	49.8	55.3	55.5			
Heavy Trucks	55.3	54.8	45.8	47.1	55.4	55.5			
Vehicle Noise	64.4	62.7	58.7	54.9	63.4	63.3			
Centerline Distances to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	36	79	109	168					
CNEL	39	84	161	360					
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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	89.48	-3.98	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	79.45	-27.18	-4.51	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	84.25	-31.15	-4.51	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	53.8	50.8	48.1	43.1	51.7	52.3
Medium Trucks	48.5	45.0	38.7	37.1	45.8	45.8
Heavy Trucks	47.4	45.0	35.8	38.2	46.5	46.7
Vehicle Noise	54.6	52.8	48.7	45.1	53.9	54.1

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	8	17	37	81
CNEL	9	19	40	88

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	89.51	-3.98	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	77.72	-25.74	-4.61	-1.20	-4.59	0.000	0.000	0.000	0.000
Heavy Trucks	82.89	-29.88	-4.61	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	52.7	50.3	46.5	42.5	51.1	51.7
Medium Trucks	46.2	44.7	38.3	36.8	45.2	45.4
Heavy Trucks	47.5	46.1	37.0	38.3	46.5	46.8
Vehicle Noise	54.2	52.5	49.2	44.5	53.2	53.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	8	18	25	76
CNEL	8	17	38	81

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	89.51	-1.53	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	77.72	-24.77	-4.61	-1.20	-4.65	0.000	0.000	0.000	0.000
Heavy Trucks	82.89	-28.72	-4.61	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	53.2	51.3	48.5	43.4	52.1	52.7
Medium Trucks	47.1	45.5	38.3	37.7	45.2	45.4
Heavy Trucks	48.5	47.0	38.0	39.3	47.6	47.7
Vehicle Noise	55.2	53.4	50.2	45.6	54.2	54.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	9	18	41	88
CNEL	9	20	44	94

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	89.51	-1.51	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	77.72	-16.75	-4.61	-1.20	-4.80	0.000	0.000	0.000	0.000
Heavy Trucks	82.89	-22.70	-4.61	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	59.2	57.5	55.8	48.6	58.1	58.7
Medium Trucks	53.2	51.7	45.3	43.7	52.2	52.4
Heavy Trucks	54.5	53.1	44.0	45.3	53.9	53.8
Vehicle Noise	61.2	59.5	56.2	51.9	60.2	60.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	22	48	103	221
CNEL	24	51	110	237

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-1.89	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-18.09	-4.51	-1.20	-4.59	0.000	0.000	0.000	0.000
Heavy Trucks	88.40	-23.05	-4.61	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	64.7	62.3	60.5	54.5	63.1	63.7
Medium Trucks	57.6	56.1	48.7	49.2	56.8	56.9
Heavy Trucks	57.6	56.2	47.2	48.4	58.8	58.8
Vehicle Noise	65.8	64.0	61.1	58.2	64.8	65.2

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	45	98	207	447
CNEL	48	104	223	461

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-2.04	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-18.27	-4.51	-1.20	-4.65	0.000	0.000	0.000	0.000
Heavy Trucks	88.40	-23.23	-4.51	-1.20	-5.16	0.000	0.000	0.000	0.000

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	64.0	62.1	60.4	54.3	62.8	63.5
Medium Trucks	57.4	55.8	48.5	48.0	56.5	56.7
Heavy Trucks	57.5	56.0	47.0	48.2	56.6	56.7
Vehicle Noise	65.5	63.9	60.9	56.0	64.6	65.0

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	43	94	202	434
CNEL	47	101	217	467

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Scenario: Existing					Project Name: Moreno Valley Valmart				
Road Name: Iris Avenue					Job Number: 8870				
Road Segment: East of Petite Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 15,264 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,526 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berry): 0.0					Autos	77.5%	12.9%	9.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 38.494				
					Medium Trucks: 89.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.96	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.22	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-22.16	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.1	63.2	61.4	55.4	64.0	64.8			
Medium Trucks	59.5	57.0	50.8	49.1	57.5	57.7			
Heavy Trucks	59.5	57.1	49.0	48.3	57.9	57.9			
Vehicle Noise	66.7	64.8	61.8	57.1	65.5	66.1			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	51	110	237	510					
CNCEL	55	118	255	548					

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Scenario: Existing					Project Name: Moreno Valley Walmart				
Road Name: Iris Avenue					Job Number: 8870				
Road Segment: West of Kitching Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,480 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,948 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Fard): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 38.494				
Road Grade: 0.0%					Medium Trucks: 66.404				
Left View: -90.0 degrees					Heavy Trucks: 89.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.18	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.38	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-21.35	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.8	64.0	62.2	56.2	64.8	65.4			
Medium Trucks	59.3	57.8	51.4	49.9	59.3	59.8			
Heavy Trucks	59.3	57.9	49.9	50.1	59.5	59.8			
Vehicle Noise	67.5	65.7	62.8	57.8	66.4	66.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	58	125	269	590					
CNCEL	62	134	289	624					

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Scenario: Existing					Project Name: Moreno valley Valmart				
Road Name: Iris Avenue					Job Number: 8870				
Road Segment: East of Kitching Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 18,330 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,833 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.74	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.44	-3.73	-1.20	-4.85	0.000	0.000		
Heavy Trucks	86.40	-21.39	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.8	64.7	63.0	56.8	65.6	66.2			
Medium Trucks	60.0	58.5	52.2	50.9	59.1	59.2			
Heavy Trucks	60.1	58.7	49.8	50.9	59.2	59.3			
Vehicle Noise	68.2	66.5	63.5	58.6	67.2	67.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	85	140	302	650					
CNCEL	70	151	324	689					
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Project: Existing Moreno Valley Valmart		
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Scenario: Existing Road Name: Kramenia Avenue Road Segment: West of Ferns Boulevard				Project Name: Moreno Valley Valtmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 3,303 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 330 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 40 mph				Vehicle Mix			
Near/Far Lane Distance: 12 feet				Vehicle/Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 67.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.008 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 39.845			
Road Grade: 0.0%				Medium Trucks: 89.956			
Left View: -60.0 degrees				Heavy Trucks: 89.885			
Right View: 60.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	88.51	-3.28	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-25.48	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.98	-21.45	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	54.4	52.6	50.8	44.7	53.3	54.0	
Medium Trucks	48.4	48.8	40.5	39.0	47.5	47.7	
Heavy Trucks	48.7	49.0	39.3	40.5	48.9	48.0	
Vehicle Noise	55.5	54.7	51.4	46.9	55.4	55.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	11	23	50	107			
CNCEL	11	25	53	114			

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Scenario: Existing Road Name: Kramenia Avenue Road Segment: East of Penita Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 7,560 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 756 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.287				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 89.484				
Left View: -90.0 degrees					Medium Trucks: 86.404				
Right View: 90.0 degrees					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.82	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-21.28	-4.61	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-25.23	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.0	60.1	58.4	52.3	60.8	61.6			
Medium Trucks	55.4	53.9	47.5	46.0	54.5	54.7			
Heavy Trucks	55.5	54.0	45.0	48.2	54.5	54.0			
Vehicle Noise	62.6	61.8	58.9	54.0	62.6	63.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	32	68	148	319					
CNCEL	34	74	158	344					

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Scenario: Existing Road Name: Harley Knox Boulevard Road Segment: West of Webster Avenue				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt)		9,330 vehicles		Autos		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		930 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed		45 mph						
Near/Far Lane Distance:		24 feet						
Site Data				Vehicle Mix				
Barrier Height:		0.0 feet		Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berrier)		0.0		Autos:	77.5%	12.9%	8.0%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:	94.8%	4.8%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Observer Height (above Pad):		5.0 feet		Noise Source Elevations (in feet)				
Road Elevation:		0.0 feet		Autos:	0.000			
Road Grade:		0.0%		Medium Trucks:	2.287			
Left View:		-90.0 degrees		Heavy Trucks:	8.006 Grade Adjustment: 0.0			
Right View:		90.0 degrees		Lane Equivalent Distances (in feet)				
				Autos:	95.403			
				Medium Trucks:	96.314			
				Heavy Trucks:	95.333			
FHWA Noise Abol Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	88.48	-2.27	-4.59	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	78.45	-18.50	-4.57	-1.20	-4.85	0.000	0.000	0.000
Heavy Trucks	84.25	-23.48	-4.57	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	60.4	58.5	56.7	50.7	59.3	59.8		
Medium Trucks	54.2	52.7	46.3	44.8	53.2	53.4		
Heavy Trucks	55.0	53.6	44.8	45.0	54.2	54.5		
Vehicle Noise	62.3	60.5	57.4	52.7	61.2	61.7		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	26	56	121	260				
CNCEL	28	60	129	279				

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Harley Knox Boulevard - Moreno Valley Valtmart		
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Scenario: Existing Road Name: Harley Knos Boulevard Road Segment: West of Ferns Boulevard				Project Name: Moreno Valley Vismart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 4,964 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 458 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 45 mph				Vehicle Mix			
Near/Far Lane Distance: 24 feet				Vehicle Type Day Evening Night Daily			
Autos 77.5% 12.9% 8.6% 87.42%							
Medium Trucks 84.8% 4.9% 10.3% 1.84%							
Heavy Trucks 86.5% 2.7% 10.8% 0.74%							
Noise Source Elevations (in feet)							
Autos 0.000							
Medium Trucks 2.287							
Heavy Trucks 8.006 Grade Adjustment: 0.0							
Lane Equivalent Distance (in feet)							
Autos 32.403							
Medium Trucks 80.314							
Heavy Trucks 89.323							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	88.48	-3.34	-4.88	-1.20	-4.77	0.000	0.000
Medium Trucks	79.45	-22.58	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	84.25	-26.53	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	57.3	55.4	53.7	47.6	56.2	56.9	
Medium Trucks	51.1	49.8	49.2	41.7	50.1	50.4	
Heavy Trucks	51.9	50.5	41.5	42.7	51.1	51.2	
Vehicle Noise	58.2	57.4	54.3	48.6	58.2	58.6	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	16	35	75	162			
CNCEL	17	37	81	174			

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Scenario: Existing					Project Name: Moreno Valley Walmart				
Road Name: Ramona Expressway					Job Number: 8870				
Road Segment: West of Ferns Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 28,820 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,802 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Site Data					Vehicle Elevations (in feet)				
Barrier Height: 0.0 feet					Autos: 0.000				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 2.297				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Furg): 5.0 feet					Medium Trucks: 2.297				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006				
Road Elevation: 0.0 feet					Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos: 87.319				
Right View: 90.0 degrees					Medium Trucks: 87.214				
					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.74	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.49	-3.73	-1.20	-4.59	0.000	0.000		
Heavy Trucks	88.40	-19.46	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.6	66.7	64.9	58.9	67.5	68.1			
Medium Trucks	62.0	60.5	54.1	52.8	61.0	61.3			
Heavy Trucks	62.6	60.8	51.8	52.8	61.2	61.3			
Vehicle Noise	70.2	66.4	65.5	60.5	69.1	69.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	38	188	408	875					
CNCEL	94	203	437	842					

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Scenario: Existing Road Name: Ramona Expressway Road Segment: East of Ferns Boulevard					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 25,080 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,508 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.17	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.07	-3.73	-1.20	-4.59	0.000	0.000		
Heavy Trucks	88.40	-20.02	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.0	66.1	64.4	58.3	66.8	67.5			
Medium Trucks	61.4	59.8	63.5	52.0	60.5	60.7			
Heavy Trucks	61.4	59.0	51.0	52.2	60.6	60.7			
Vehicle Noise	69.5	67.0	64.3	60.0	69.6	69.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	86	173	372	802					
CNCEL	88	186	400	852					
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Scenario: Existing Road Name: Indian Street Road Segment: North of Cottonwood Avenue				Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 7,715 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 772 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
				Autos	77.5%	12.9%	9.6%	67.42%
				Medium Trucks	84.8%	4.9%	10.3%	1.94%
				Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Site Data				Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berry): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet)				
				Autos: 99.945 Medium Trucks: 99.856 Heavy Trucks: 99.885				
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	88.51	-2.57	-4.62	-1.20	-4.77	0.000	0.000	
Medium Trucks	77.72	-19.80	-4.61	-1.20	-4.80	0.000	0.000	
Heavy Trucks	82.98	-23.76	-4.61	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	59.1	59.2	54.6	46.4	57.0	57.8		
Medium Trucks	52.1	50.8	44.2	42.7	51.1	51.4		
Heavy Trucks	53.4	52.0	43.0	44.2	52.9	52.7		
Vehicle Noise	60.1	59.4	55.1	50.6	58.1	59.6		
Centerline Distance to Noise Contour (in feet)								
70 dBA 65 dBA 60 dBA 55 dBA								
Ldn	19	41	87	166				
CNEL	20	43	94	201				

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Scenario: Existing Road Name: Indian Street Road Segment: North of Alessandro Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,880 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,086 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Furg): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					VehicleType Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.484 Medium Trucks: 96.404 Heavy Trucks: 99.413				
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	63.5	61.6	56.8	53.8	62.4	63.0			
Medium Trucks	56.9	55.4	48.0	47.5	56.0	56.2			
Heavy Trucks	57.6	55.5	46.5	47.7	58.1	58.2			
Vehicle Noise	65.1	63.3	60.4	55.5	64.1	64.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	40	87	187	402					
CNEL	43	93	201	433					

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Scenario: Existing Road Name: Indian Street Road Segment: North of Cactus Avenue				Project Name: Moreno valley Valmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 10,882 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,088 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
				Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Site Data				Noise Source Elevations (in feet)			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berry): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 98.454 Medium Trucks: 96.404 Heavy Trucks: 96.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	-2.41	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-18.85	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	88.40	-23.81	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	63.8	61.8	56.0	53.8	62.6	63.2	
Medium Trucks	57.0	55.5	48.0	47.5	56.1	56.2	
Heavy Trucks	57.1	55.7	46.8	47.9	58.2	58.2	
Vehicle Noise	65.2	63.5	60.5	55.6	64.2	64.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	41	88	190	410			
CNEL	44	95	205	441			

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Scenario: Existing Road Name: Indian Street Road Segment: South of John F. Kennedy Drive					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,018 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 802 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
					Autos:	77.5%	12.9%	8.6%	87.42%
					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Site Data					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 98.994 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos:	71.76	-3.76	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks:	82.40	-21.02	-4.51	-1.20	-4.86	0.000	0.000		
Heavy Trucks:	86.40	-24.98	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos:	82.3	60.4	58.6	54.6	61.2	61.8			
Medium Trucks:	55.7	54.2	47.8	48.3	54.7	54.5			
Heavy Trucks:	55.7	54.3	45.2	46.5	54.9	55.0			
Vehicle Noise:	63.8	62.1	58.1	54.3	62.8	63.3			
Centerline Distances to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Left:	93	72	154	352					
CNEL:	36	17	186	367					

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FHWA Noise Model Inputs and Outputs (Hard = 10, Soft = 15)									
Scenario: Existing Road Name: Indian Street Road Segment: North of Krameria Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 4,362 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 429 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.945				
Road Grade: 0.0%					Medium Trucks: 89.856				
Left View: -90.0 degrees					Heavy Trucks: 89.885				
Right View: 90.0 degrees					FHWA Noise Model Calculations				
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten					Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten				
Autos: 77.5% 12.9% 8.9% 87.42%					Autos: 77.5% 12.9% 8.9% 87.42%				
Medium Trucks: 84.8% 4.9% 10.3% 1.84%					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Heavy Trucks: 86.5% 2.7% 10.8% 0.74%					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Unmitigated Noise Levels (without Topo and barrier attenuation)				
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL					Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL				
Autos: 55.7 53.6 48.1 46.0 54.8 55.2					Autos: 55.7 53.6 48.1 46.0 54.8 55.2				
Medium Trucks: 49.7 48.1 40.2 48.7 48.9					Medium Trucks: 49.7 48.1 40.2 48.7 48.9				
Heavy Trucks: 51.0 49.6 40.5 41.8 50.3					Heavy Trucks: 51.0 49.6 40.5 41.8 50.3				
Vehicle Noise: 57.7 56.0 52.7 48.1 56.7 57.1					Vehicle Noise: 57.7 56.0 52.7 48.1 56.7 57.1				
Centerline Distance to Noise Contour (in feet)					Centerline Distance to Noise Contour (in feet)				
70 dBA 65 dBA 60 dBA 55 dBA					70 dBA 65 dBA 60 dBA 55 dBA				
Ldn: 13 28 80 129					Ldn: 13 28 80 129				
CNEL: 14 30 94 138					CNEL: 14 30 94 138				

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FHWA Noise Model Inputs and Outputs (Hard = 10, Soft = 15)									
Scenario: Existing Road Name: Indian Street Road Segment: South of Krameria Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 2,046 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 204 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.945				
Road Grade: 0.0%					Medium Trucks: 89.856				
Left View: -90.0 degrees					Heavy Trucks: 89.885				
Right View: 90.0 degrees					FHWA Noise Model Calculations				
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten					Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten				
Autos: 77.5% 12.9% 8.9% 87.42%					Autos: 77.5% 12.9% 8.9% 87.42%				
Medium Trucks: 84.8% 4.9% 10.3% 1.84%					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Heavy Trucks: 86.5% 2.7% 10.8% 0.74%					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Unmitigated Noise Levels (without Topo and barrier attenuation)				
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL					Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL				
Autos: 55.7 53.6 48.1 46.0 54.8 55.2					Autos: 55.7 53.6 48.1 46.0 54.8 55.2				
Medium Trucks: 49.7 48.1 40.2 48.7 48.9					Medium Trucks: 49.7 48.1 40.2 48.7 48.9				
Heavy Trucks: 51.0 49.6 40.5 41.8 50.3					Heavy Trucks: 51.0 49.6 40.5 41.8 50.3				
Vehicle Noise: 57.7 56.0 52.7 48.1 56.7 57.1					Vehicle Noise: 57.7 56.0 52.7 48.1 56.7 57.1				
Centerline Distance to Noise Contour (in feet)					Centerline Distance to Noise Contour (in feet)				
70 dBA 65 dBA 60 dBA 55 dBA					70 dBA 65 dBA 60 dBA 55 dBA				
Ldn: 8 17 58 76					Ldn: 8 17 58 76				
CNEL: 6 18 58 63					CNEL: 6 18 58 63				

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FHWA Noise Model Inputs and Outputs (Hard = 10, Soft = 15)									
Scenario: Existing Road Name: Indian Street Road Segment: South of Harley Kaca Boulevard					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 4,344 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 434 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.945				
Road Grade: 0.0%					Medium Trucks: 89.856				
Left View: -90.0 degrees					Heavy Trucks: 89.885				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	-5.44	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-23.69	-4.51	-1.20	-4.88	0.000	0.000	0.000	
Heavy Trucks	88.40	-27.64	-4.51	-1.20	-5.18	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	59.8	57.7	56.0	49.8	58.5	59.1			
Medium Trucks	53.0	51.5	46.1	43.9	52.1	52.3			
Heavy Trucks	53.0	51.6	42.6	43.9	52.2	52.3			
Vehicle Noise	61.2	59.4	55.5	51.6	60.2	60.6			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Len	20	46	103	221					
CNEL	24	51	119	238					
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Scenario: Existing Road Name: Harris Boulevard Road Segment: North of Eucalyptus Avenue					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,160 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,018 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					VehicleType	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 38.494				
Road Grade: 0.0%					Medium Trucks: 89.404				
Left View: -90.0 degrees					Heavy Trucks: 89.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.22	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.02	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.99	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.3	64.4	62.6	56.6	65.2	65.8			
Medium Trucks	59.7	58.2	51.8	50.3	58.7	59.0			
Heavy Trucks	58.7	59.3	49.3	50.5	58.9	58.0			
Vehicle Noise	67.8	66.1	63.1	58.3	66.0	67.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	61	132	285	614					
CNEL	86	142	307	661					

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Highway 101 - Moreno Valley Valtmart (F-101)									
Scenario: Existing Road Name: Fernis Boulevard Road Segment: South of Eucalyptus Avenue					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 18,168 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,817 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type				
Barrier Height: 0.0 feet					Day				
Barrier Type (0-Wall, 1-Berm): 0.0					Evening				
Centerline Dist. to Barrier: 100.0 feet					Night				
Centerline Dist. to Observer: 100.0 feet					Daily				
Barrier Distance to Observer: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Pad Elevation: 0.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Road Elevation: 0.0 feet					Noise Source Elevations (in feet)				
Road Grade: 0.0%					Autos: 0.000				
Left View: -90.0 degrees					Medium Trucks: 2.297				
Right View: 90.0 degrees					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 83.494				
					Medium Trucks: 86.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REMSL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.22	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.47	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-21.42	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.8	63.8	62.4	56.1	64.7	65.3			
Medium Trucks	58.2	57.7	51.4	49.8	58.3	58.5			
Heavy Trucks	58.5	57.8	48.8	50.1	58.4	58.5			
Vehicle Noise	67.4	65.8	62.7	57.8	66.4	66.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	57	122	266	573					
CNEL	82	133	288	617					

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Scenario: Existing Road Name: Perris Boulevard Road Segment: North of Cottonwood Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,830 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,280 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 38.454				
Left View: -90.0 degrees					Medium Trucks: 86.404				
Right View: 90.0 degrees					Heavy Trucks: 86.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	0.76	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.48	-4.51	-1.20	-4.85	0.000	0.000		
Heavy Trucks	86.40	-20.44	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.8	64.8	63.2	57.1	65.7	66.3			
Medium Trucks	60.2	58.7	52.3	50.8	58.3	58.5			
Heavy Trucks	60.2	59.3	49.0	51.0	59.4	59.5			
Vehicle Noise	68.4	66.6	63.7	58.6	67.4	67.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	67	144	308	687					
CNEL	72	155	333	717					

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Scenario: Existing					Project Name: Moreno Valley Valtmart				
Road Name: Fernis Boulevard					Job Number: 8870				
Road Segment: South of Cottonwood Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,285 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,028 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle/Type Day Evening Night Daily				
Barrier Type: (0-Wall, 1-Berry): 0.0					Autos: 77.5% 12.9% 9.6% 67.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 94.9% 4.9% 10.3% 1.94%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 88.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet					Noise Source Elevations (in feet)				
Peak Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.6 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Left View: -50.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 80.6 degrees					Autos: 98.494				
					Medium Trucks: 98.004				
					Heavy Trucks: 99.413				
FHWA Noise Street Calculations									
Vehicle Type	FSMSEL	Traffic Flow	Distance	Profile Road	Freeway	Barrier	Attn	Berm	Attn
Autos	71.78	0.25	-4.52	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	82.40	-16.98	-4.51	-1.20	-4.86	0.000	0.000	0.000	0.000
Heavy Trucks	96.40	-20.95	-4.51	-1.20	-5.16	0.000	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	89.3	84.4	82.6	56.6	85.2	85.2			
Medium Trucks	59.7	58.2	51.8	50.3	58.7	58.7			
Heavy Trucks	58.7	58.3	48.3	55.5	58.9	58.9			
Vehicle Noise	67.8	65.1	63.2	58.3	66.9	67.7			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ln	62	133	286	617					
CNEL	88	143	266	982					
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Scenario: Existing Road Name: Harris Boulevard Road Segment: North of Cactus Avenue				Project Name: Moreno Valley Vismart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 16,968 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,697 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berry): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.6 feet Pad Elevation: 0.0 feet Road Elevation: 0.6 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees				Medium Trucks: 84.8% 4.9% 10.3% 1.94% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	-3.53	-4.82	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-17.76	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-21.72	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	65.5	63.6	61.8	55.6	64.4	65.0	
Medium Trucks	58.9	57.4	51.1	49.5	58.0	58.2	
Heavy Trucks	58.0	57.5	48.5	48.8	58.1	58.2	
Vehicle Noise	67.1	65.4	62.4	57.5	66.1	66.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	95	118	254	548			
CNSEL	59	127	273	568			

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Highway 101 - Moreno Valley Valtmart									
Scenario: Existing Road Name: Fernis Boulevard Road Segment: South of Cactus Avenue					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 17,568 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,757 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-3.58	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.91	-3.73	-1.20	-4.59	0.000	0.000		
Heavy Trucks	86.40	-21.57	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	66.5	64.6	62.8	56.8	65.4	66.0			
Medium Trucks	58.9	58.4	52.0	50.4	58.9	59.1			
Heavy Trucks	58.0	56.5	48.4	50.7	59.0	59.2			
Vehicle Noise	66.0	66.3	63.3	58.5	67.0	67.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	83	136	283	632					
CNSEL	88	147	315	680					

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Scenario: Existing Road Name: Pernis Boulevard Road Segment: North of John F. Kennedy Drive					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 15,312 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,531 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.5% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RECEVEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-3.67	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.21	-3.73	-1.20	-4.65	0.000	0.000		
Heavy Trucks	86.40	-22.17	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	65.9	64.0	62.2	56.2	64.8	65.4			
Medium Trucks	59.3	57.8	51.4	49.8	58.3	58.5			
Heavy Trucks	58.0	57.9	48.8	50.1	58.4	58.6			
Vehicle Noise	67.5	65.7	62.7	57.6	66.4	66.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	58	124	288	577					
CNSEL	62	134	298	621					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Road Name: Fernis Boulevard Road Segment: South of John F. Kennedy Drive					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 18,726 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,872 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Site Data									
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees									
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-3.10	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.34	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-21.26	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	85.7	64.6	63.1	57.0	65.6	66.3	66.3		
Medium Trucks	90.1	59.6	57.3	50.7	59.2	59.8	59.8		
Heavy Trucks	93.2	59.6	49.7	51.0	58.3	58.9	58.9		
Vehicle Noise	68.3	65.6	63.6	58.7	67.3	67.3	67.3		
Centerline Distances to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ln		66	142	366	950				
CNEL		71	153	328	710				
Friday, November 08, 2013									

Scenario: Existing
Road Name: Ferns Boulevard
Road Segment: South of this Avenue

Project Name: Morris Valley Wastwat
Job Number: 0870

SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (H=40, S=0, I=1)					
Average Daily Traffic (Adt): 16,044 vehicles				Autos: 15					
Peak Hour Percentage: 10%				Medium Trucks (2 Autos): 15					
Peak Hour Volume: 1,054 vehicles				Heavy Trucks (3+ Autos): 15					
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 80 feet									
Site Data				Vehicle Mix					
Barrier Height: 0.0 feet				Vehicle Type		Day	Evening	Night	Delay
Barrier Type (0=Wall, 1=Berry): 3				Autos		77.5%	12.9%	9.6%	67.4%
Centerline Dist to Barrier: 100.0 feet				Medium Trucks		84.9%	4.9%	10.3%	1.94%
Centerline Dist to Observer: 0.0 feet				Heavy Trucks		85.5%	2.7%	10.8%	0.74%
Observer Distance to Observer: 0.0 feet									
Observer Height (Above Rd): 5.0 feet				Noise Source Elevations (in feet)					
Prod Elevation: 0.0 feet				Autos: 0.050					
Road Elevation: 0.0 feet				Medium Trucks: 2.267					
Road Grade: 0.0%				Heavy Trucks: 6.008 Grade Adjustment: 0.0					
Left View: -60.0 degrees				Lane Equivalent Distances (in feet)					
Right View: 80.0 degrees				Autos: 67.316					
				Medium Trucks: 87.214					
				Heavy Trucks: 87.224					
FHWA Noise Model Calculations									
Vehicle Type	FEMSEL	Traffic Flow	Distance	Finite Road	Freeze	Barrier Att'n	Berm Att'n		
Autos	71.78	-5.77	-1.74	-1.20	-4.77	0.050	0.000	0.000	
Medium Trucks	82.40	-16.01	-3.73	-1.20	-4.86	0.050	0.000	0.000	
Heavy Trucks	86.40	-21.96	-3.73	-1.20	-5.16	0.050	0.000	0.000	
Unimproved Noise Levels (Without Topog and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	LnH	CNEL			
Autos	81.1	84.2	82.4	56.4	65.0	65.0			
Medium Trucks	59.5	59.0	51.0	50.1	58.5	58			
Heavy Trucks	58.5	59.1	48.0	50.3	58.7	58			
Vehicle Noise	67.7	65.8	62.8	58.1	66.5	67			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Lab:	60	128	276	585					
CNEL:	64	138	297	640					

Friday, November 09, 2013

Scenario: Existing					Project Name: Moreno Valley Walmart					
Road Name: Peris Boulevard					Job Number: 0970					
Road Segment: North of Kramena Avenue										
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS					
Highway Data					Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT): 14,594 vehicles					Autos: 15					
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15					
Peak Hour Volume: 1,466 vehicles					Heavy Trucks (3+ Axes): 15					
Vehicle Speed: 55 mph										
Near/Far Lane Distance: 30 feet										
Site Data					Vehicle Mix					
Barrier Height: 0.0 feet					Vehicle Type		Day	Evening	Night	Daily
Barrier Type (0=Wall, 1=Barrier): 0.0					Autos:		77.5%	12.9%	6.8%	87.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks:		84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks:		88.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 100.0 feet					Noise Source Elevations (in feet)					
Observer Height (above Road): 5.0 feet					Autos: 0.000					
Paid Elevation: 0.0 feet					Medium Trucks: 2.297					
Road Elevation: 0.0 feet					Heavy Trucks: 8.006					
Road Grade: 0.0%					Grade Adjustment: 0.0					
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)					
Right View: 90.0 degrees					Autos: 87.516					
					Medium Trucks: 67.214					
					Heavy Trucks: 67.224					
FHWA Noise Model Calculations										
Vehicle Type	REWEI	Traffic Flow	Distance	Finite Road	Present	Barrier Attenu	Barrier Attenu			
Autos	71.78	-1.19	-3.74	-1.20	-4.77	0.000	0.000			
Medium Trucks	82.40	-18.40	-3.73	-1.20	-4.59	0.000	0.000			
Heavy Trucks	88.40	-22.35	-3.73	-1.20	-5.16	0.000	0.000			
Unmitigated Noise Levels (without Topo and barrier attenuation)										
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL				
Autos	65.7	63.8	62.0	59.0	84.9	85.2				
Medium Trucks	69.1	67.6	51.2	49.1	68.1	58.4				
Heavy Trucks	69.1	57.7	46.7	49.9	50.3	59.4				
Vehicle Noise	67.3	65.5	62.5	57.7	68.2	69.7				
Contingent Distance to Noise Contour (in feet)										
	70 dBA	65 dBA	60 dBA	55 dBA						
Ln	58	121	260	550						
CNEL	89	130	290	618						

Friday, November 08, 2013

Scenario: Existing Road Name: Pernis Boulevard Road Segment: South of Kalamia Avenue				Project Name: Marmora Valley Plzment Job Number: 9870																							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS																							
Average Daily Traffic (adt): 15,640 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,554 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet				Site Conditions (Hard = 10, Soft = 15) Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15 Vehicle Mix <table><tr><th>Vehicle Type</th><th>Day</th><th>Evening</th><th>Night</th><th>Daily</th></tr><tr><td>Autos</td><td>77.5%</td><td>12.8%</td><td>9.5%</td><td>97.42%</td></tr><tr><td>Medium Trucks</td><td>94.8%</td><td>4.5%</td><td>10.3%</td><td>1.94%</td></tr><tr><td>Heavy Trucks</td><td>96.5%</td><td>2.7%</td><td>10.8%</td><td>0.74%</td></tr></table>				Vehicle Type	Day	Evening	Night	Daily	Autos	77.5%	12.8%	9.5%	97.42%	Medium Trucks	94.8%	4.5%	10.3%	1.94%	Heavy Trucks	96.5%	2.7%	10.8%	0.74%
Vehicle Type	Day	Evening	Night	Daily																							
Autos	77.5%	12.8%	9.5%	97.42%																							
Medium Trucks	94.8%	4.5%	10.3%	1.94%																							
Heavy Trucks	96.5%	2.7%	10.8%	0.74%																							
Site Data Barrier Height: 0.0 feet Barrier Type (0=Wall, 1=Barrier): 0.0 Centerline Dist to Barrier: 100.0 feet Centerline Dist to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -80.0 degrees Right View: 80.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.97 Heavy Trucks: 9.06 Grade Adjustment: 0.0 Lane Equivalence Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 97.224																							
FHWA Noise Model Calculations																											
Vehicle Type	RECEIVED	Traffic Flow	Distance	Pointe Road	Freeszer	Barrier Adjust	Berm adjust																				
Autos	71.76	-3.61	-3.74	-1.20	-4.77	0.000	0.000																				
Medium Trucks	82.40	-18.15	-3.73	-1.20	-4.68	0.000	0.000																				
Heavy Trucks	90.40	-22.10	-3.73	-1.20	-5.16	0.000	0.000																				
Unmitigated Noise Levels (Without Topo and Barrier Adjustment)																											
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL																					
Autos	65.9	54.0	42.3	58.2	64.8	65.4																					
Medium Trucks	59.3	57.8	51.6	49.8	58.4	59.6																					
Heavy Trucks	59.4	57.9	49.9	50.2	50.5	50.6																					
Vehicle Noise	67.5	55.9	42.9	57.6	65.5	67.6																					
Centerline Distances to Noise Contour (in feet)																											
	70 dBA	65 dBA	60 dBA	55 dBA																							
Loc:	58	128	273	563																							
CNEL:	63	135	281	627																							

Friday, November 08, 2013

Scenario: Existing Road Name: Ferris Boulevard Road Segment: North of San Michele Road				Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 16,776 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,678 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos	77.5%	12.9%	9.6%	67.42%
				Medium Trucks	84.8%	4.9%	10.3%	1.94%
				Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.76	-2.58	-2.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-17.81	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-21.77	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	69.3	64.4	62.6	56.6	65.2	65.8		
Medium Trucks	59.7	58.2	51.8	50.2	58.7	58.9		
Heavy Trucks	58.7	59.0	49.2	50.5	58.9	58.0		
Vehicle Noise	67.8	66.1	63.1	58.3	66.0	67.3		
Centerline Distance to Noise Contour (in feet)								
70 dBA 65 dBA 60 dBA 55 dBA								
Ldn	61 132 285 613							
CNCEL	56 142 306 659							

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing										Project Name: Moreno Valley Walmart			
Road Name: Ferris Boulevard										Job Number: 8870			
Road Segment: San Michele Road to Nandina Avenue													
SITE SPECIFIC INPUT DATA							NOISE MODEL INPUTS						
Highway Data							Site Conditions (Hard = 10, Soft = 15)						
Average Daily Traffic (ADT): 15,388 vehicles							Autos: 15						
Peak Hour Percentage: 10%							Medium Trucks (2 Axles): 15						
Peak Hour Volume: 1,538 vehicles							Heavy Trucks (3+ Axles): 15						
Vehicle Speed: 55 mph													
Near/Far Lane Distance: 90 feet													
Site Data							Vehicle Mix						
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees							Vehicle Type		Day	Evening	Night	Daily	
							Autos:		77.5%	12.9%	8.9%	87.42%	
							Medium Trucks:		84.8%	4.9%	10.3%	1.84%	
							Heavy Trucks:		86.5%	2.7%	10.8%	0.74%	
							Noise Source Elevations (in feet)						
							Autos:		0.000				
							Medium Trucks:		2.297				
							Heavy Trucks:		8.006		Grade Adjustment: 0.0		
							Lane Equivalent Distance (in feet)						
							Autos:		87.316				
							Medium Trucks:		87.214				
							Heavy Trucks:		87.224				
FHWA Noise Model Calculations													
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n						
Autos	71.76	-3.81	-3.74	-1.20	-4.77	0.000	0.000						
Medium Trucks	82.40	-18.05	-3.73	-1.20	-4.80	0.000	0.000						
Heavy Trucks	86.40	-22.01	-3.73	-1.20	-5.16	0.000	0.000						
Unmitigated Noise Levels (without Topo and barrier attenuation)													
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL							
Autos	66.0	64.1	62.4	56.3	64.8	65.5							
Medium Trucks	58.4	57.9	51.6	50.0	58.5	58.7							
Heavy Trucks	56.5	56.0	46.0	50.3	58.5	58.7							
Vehicle Noise	67.6	65.9	62.9	58.0	66.5	67.1							
Centerline Distance to Noise Contour (in feet)													
70 dBA		65 dBA		60 dBA		55 dBA							
Ldn		59		127		274		581					
CNEL		54		137		295		636					

Friday, November 08, 2013

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Scenario: Existing Road Name: Perris Boulevard Road Segment: South of Nandina Avenue				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 15,628 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,563 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
				Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Site Data				Noise Source Elevations (in feet)			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berry): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224			
FHWA Noise Model Calculations							
Vehicle Type	RECEIVED	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	-2.58	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-18.07	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-22.02	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	66.0	64.1	62.4	56.3	64.8	65.5	
Medium Trucks	58.4	57.9	51.6	50.0	58.5	58.7	
Heavy Trucks	58.4	58.0	49.0	50.2	58.6	58.7	
Vehicle Noise	67.6	65.9	62.9	58.0	66.6	67.0	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	59	127	274	580			
CNCEL	53	137	294	634			

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Scenario: Existing Road Name: Ferris Boulevard Road Segment: North of Harley Knox Boulevard				Project Name: Moreno Valley Valmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 16,524 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,652 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 24 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 99.403 Medium Trucks: 99.314 Heavy Trucks: 99.322			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	69.48	0.23	-4.68	-1.20	-4.77	0.000	0.000
Medium Trucks	79.45	-17.01	-4.57	-1.20	-4.80	0.000	0.000
Heavy Trucks	84.25	-20.96	-4.57	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.8	61.0	59.2	53.2	61.8	62.4	
Medium Trucks	58.7	55.2	49.8	47.3	55.7	55.9	
Heavy Trucks	57.5	55.1	47.1	48.3	58.7	58.9	
Vehicle Noise	64.7	63.0	58.9	55.2	63.7	64.2	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	38	82	177	361			
CNCEL	41	98	190	408			

Friday, November 08, 2013

Friday, November 08, 2013

Highway Noise Model Inputs (Hard

Scenario: Existing Road Name: Farris Boulevard Road Segment: South of Ramona Expressway				Project Name: Moreno Valley Walmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 14,260 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,428 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.9% 4.9% 10.3% 1.84% Heavy Trucks: 88.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 37.316 Medium Trucks: 87.214 Heavy Trucks: 97.224			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-1.28	-2.14	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.51	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	88.40	-22.47	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.0	63.7	61.8	55.6	64.5	65.1	
Medium Trucks	59.0	57.6	51.1	49.5	58.0	58.2	
Heavy Trucks	58.0	57.6	48.5	48.8	58.1	58.3	
Vehicle Noise	67.1	65.4	62.4	57.6	66.1	66.6	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	95	119	256	561			
CNEL	59	128	275	562			

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Scenario: Existing Road Name: Kitching Street Road Segment: North of Cactus Avenue				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 6,216 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 826 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
				Autos:	77.5%	12.9%	6.6%	67.42%
				Medium Trucks:	84.8%	4.9%	10.3%	1.84%
				Heavy Trucks:	88.5%	2.7%	10.8%	0.74%
Site Data				Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet)				
				Autos: 39.494 Medium Trucks: 68.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	-4.89	-4.82	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-22.08	-4.51	-1.20	-4.80	0.000	0.000	
Heavy Trucks	88.40	-26.94	-4.51	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	61.7	58.3	57.6	51.5	60.1	60.7		
Medium Trucks	54.6	53.1	46.7	45.2	53.7	53.9		
Heavy Trucks	54.6	53.2	44.2	45.4	53.8	53.8		
Vehicle Noise	62.8	61.0	58.1	53.2	61.8	62.2		
Centerline Distance to Noise Contour (in feet)								

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Scenario: Existing Road Name: Kitching Street Road Segment: South of Cactus Avenue				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 7,889 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 787 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph								
Near/Far Lane Distance: 12 feet								
Site Data				Vehicle Mix				
Barrier Height: 0.0 feet				Vehicle/Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berrier): 0.0				Autos: 77.5% 12.9% 8.9% 87.42%				
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet								
Observer Height (above Pad): 5.0 feet				Noise Source Elevations (in feet)				
Road Elevation: 0.0 feet				Autos: 0.000				
Road Grade: 0.0%				Medium Trucks: 2.287				
Left View: -90.0 degrees				Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Right View: 90.0 degrees								
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	68.51	-2.58	-4.83	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	77.72	-18.83	-4.91	-1.20	-4.85	0.000	0.000	0.000
Heavy Trucks	82.98	-23.79	-4.81	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	58.1	58.2	56.4	48.4	57.0	57.6		
Medium Trucks	52.1	50.9	44.2	42.7	51.1	51.4		
Heavy Trucks	53.4	52.0	42.9	44.2	52.5	52.7		
Vehicle Noise	60.1	58.4	55.1	50.6	59.1	59.5		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	18	40	87	187				
CNEL	20	43	93	201				

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Scenario: Existing Road Name: Kitching Street Road Segment: North of John F. Kennedy Drive				Project Name: Moreno Valley Walmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 6,912 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 691 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet				Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 88.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 39.945 Medium Trucks: 88.956 Heavy Trucks: 99.885			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	68.51	-3.94	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-20.28	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.88	-24.24	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	57.7	55.6	54.6	47.6	56.8	57.2	
Medium Trucks	51.8	50.1	43.8	42.2	50.7	50.9	
Heavy Trucks	52.8	51.5	42.5	43.7	52.1	52.2	
Vehicle Noise	58.7	57.8	54.7	50.1	58.9	59.1	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	17	38	81	175			
CNEL	19	40	87	187			

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Scenario: Existing										Project Name: Moreno Valley Valmart									
Road Name: Kitching Street										Job Number: 8870									
Road Segment: South of John F. Kennedy Drive																			
SITE SPECIFIC INPUT DATA										NOISE MODEL INPUTS									
Highway Data										Site Conditions (Hard = 10, Soft = 15)									
Average Daily Traffic (ADT)										Autos									
8,340 vehicles										15									
Peak Hour Percentage										Medium Trucks (2 Axes)									
10%										15									
Peak Hour Volume										Heavy Trucks (3+ Axes)									
834 vehicles										15									
Vehicle Speeds																			
40 mph																			
Near/Far Lane Distance																			
12 feet																			
Site Data										Vehicle Mix									
Barrier Height										Vehicle/Type									
0.0 feet										Day									
Barrier Type (0=Wall, 1=Barrier)										Evening									
0.0 feet										Night									
Centerline Dist. to Barrier										Daily									
100.0 feet										Autos									
Centerline Dist. to Observer										77.5%									
0.0 feet										12.9%									
Observer Height (Above Fard)										5.6%									
5.0 feet										87.42%									
Paid Elevation										Medium Trucks									
0.0 feet										84.8%									
Road Elevation										4.9%									
0.0 feet										10.3%									
Road Grade										Heavy Trucks									
0.0%										86.5%									
Left View										Grade Adjustment									
-90.0 degrees										0.0									
Right View																			
90.0 degrees																			
FHWA Noise Model Calculations										Noise Source Elevations (in feet)									
Vehicle/Type										Autos									
REHSEL										0.000									
Traffic Flow										Medium Trucks									
Distance										2.287									
Fardo Road										Heavy Trucks									
Procnel										8.000									
Barrier Alttn										Grade Adjustment									
Barri Alttn										0.0									
Lane Equivalent Distance (in feet)																			
Autos										89.645									
Medium Trucks										69.658									
Heavy Trucks										89.685									
Unmitigated Noise Levels (without Topo and barrier attenuation)																			
Vehicle/Type										Leq Peak Hour									
Autos										Leq Day									
58.5										Leq Evening									
58.6										Leq Night									
Medium Trucks										54.8									
52.4										54.8									
Heavy Trucks										50.9									
50.6										50.9									
Vehicle/Type										50.5									
50.5										50.9									
Centerline Distance to Noise Contour (in feet)																			
20 dBA										65 dBA									
Ldn										50 dBA									
CNEL										82									
24										48									
										98									
										212									

Friday, November 01, 2013

Scenario: Existing Road Name: Kitching Street Road Segment: South of Iris Avenue				Project Name: Moreno Valley Valtmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 7,068 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15			
Peak Hour Volume: 707 vehicles				Heavy Trucks (3+ Axes): 15			
Vehicle Speed: 45 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 88.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	88.48	-3.48	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	79.45	-20.70	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	84.25	-24.66	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	59.3	57.4	55.6	48.6	56.2	56.8	
Medium Trucks	53.0	51.5	49.2	43.6	52.1	52.3	
Heavy Trucks	53.9	52.5	49.4	44.7	53.0	53.2	
Vehicle Noise	61.1	59.4	56.2	51.5	60.1	60.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	22	47	101	216			
CNCEL	23	50	109	234			

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Scenario: Existing Road Name: Lasselle Street Road Segment: North of Iris Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,216 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,826 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 6.8% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.287				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 89.494				
Left View: -90.0 degrees					Medium Trucks: 66.404				
Right View: 90.0 degrees					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-3.30	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-17.44	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	68.40	-21.40	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.8	64.0	62.2	56.1	64.8	65.4			
Medium Trucks	58.2	57.7	51.4	49.8	58.3	58.5			
Heavy Trucks	58.5	57.9	48.8	50.1	58.4	58.8			
Vehicle Noise	67.4	65.7	62.7	57.8	68.4	68.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	58	124	267	575					
CNCEL	62	135	287	619					

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Scenario: Existing Road Name: Lasselle Street Road Segment: South of Iris Avenue				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt)		28,282 vehicles		Autos		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		2,628 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed		55 mph		Vehicle Mix				
Near/Far Lane Distance:		36 feet		Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%				
Barrier Height:		0.0 feet		Medium Trucks		84.8% 4.9% 10.3% 1.84%		
Barrier Type (0-Wall, 1-Ber)		0.0		Heavy Trucks		86.5% 2.7% 10.8% 0.74%		
Centerline Dist. to Barrier:		100.0 feet		Noise Source Elevations (in feet)				
Centerline Dist. to Observer:		100.0 feet		Autos:		0.000		
Barrier Distance to Observer:		0.0 feet		Medium Trucks:		2.287		
Observer Height (above Pad):		5.0 feet		Heavy Trucks:		8.006		
Grade Adjustment:		0.0						
Road Elevation:		0.0 feet		Lane Equivalent Distance (in feet)				
Road Grade:		0.0%		Autos:		38.494		
Left View:		-90.0 degrees		Medium Trucks:		86.404		
Right View:		90.0 degrees		Heavy Trucks:		86.413		
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.76	1.38	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	62.40	-15.88	-4.51	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	68.40	-19.82	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	67.4	65.5	63.8	57.7	68.3	68.8		
Medium Trucks	60.8	59.3	53.0	51.4	59.8	60.1		
Heavy Trucks	60.9	59.4	50.4	51.7	60.0	60.1		
Vehicle Noise	69.0	67.3	64.3	59.4	69.0	69.5		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	72	158	340	733				
CNCEL	75	170	358	789				

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Scenario: Existing Plus Project Road Name: Cottonwood Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Valtmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,220 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 822 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.403				
Road Grade: 0.0%					Medium Trucks: 80.314				
Left View: -60.0 degrees					Heavy Trucks: 89.323				
Right View: 60.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	88.48	-2.90	-4.88	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	79.45	-20.04	-4.57	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	84.25	-24.06	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	58.9	58.0	56.2	55.2	58.8	58.4			
Medium Trucks	53.8	52.1	45.8	44.2	52.7	52.9			
Heavy Trucks	54.5	53.1	44.0	45.3	53.9	53.8			
Vehicle Noise	61.7	60.0	56.8	52.1	60.7	61.1			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ldn		24	52	111	239				
CNEL		26	55	119	257				

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Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart				
Road Name: Cottonwood Avenue				Job Number: 8870				
Road Segment: West of Peris Boulevard								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT):		7,296 vehicles		Autos:		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		726 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed:		45 mph						
Near/Far Lane Distance:		24 feet						
Site Data				Vehicle Mix				
Barrier Height:		0.0 feet		VehicleType	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm):		0.0		Autos:	77.5%	12.9%	6.6%	67.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet		Noise Source Elevations (in feet)				
Observer Height (Above Pad):		5.0 feet		Autos:	0.000			
Pad Elevation:		0.0 feet		Medium Trucks:	2.287			
Road Elevation:		0.0 feet		Heavy Trucks:	8.006			
Road Grade:		0.0%		Grade Adjustment: 0.0				
Left View:		-90.0 degrees		Lane Equivalent Distance (in feet)				
Right View:		90.0 degrees		Autos:	89.403			
				Medium Trucks:	89.314			
				Heavy Trucks:	89.323			
FHWA Noise Model Calculations								
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	68.48	-3.33	-4.56	-1.20	-4.77	0.000	0.000	
Medium Trucks	78.45	-20.56	-4.57	-1.20	-4.89	0.000	0.000	
Heavy Trucks	84.25	-24.32	-4.57	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	58.4	57.5	55.7	48.6	58.3	58.9		
Medium Trucks	52.1	51.8	45.2	43.7	52.2	52.4		
Heavy Trucks	54.6	52.5	43.5	44.7	53.1	53.2		
Vehicle Noise	61.2	56.4	56.3	51.5	60.2	60.6		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	22	48	103	221				
CNCEL	24	51	110	237				

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Scenario: Existing Plus Project Road Name: Cottonwood Avenue Road Segment: East of Peris Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt)		7,856 vehicles		Autos		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		786 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed		40 mph		Vehicle Mix				
Near/Far Lane Distance:		12 feet						
Site Data				Vehicle Type				
Barrier Height:		0.0 feet		Autos:	77.5%	12.9%	8.0%	87.42%
Barrier Type (0-Wall, 1-Berm):		0.0		Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Barrier:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Observer:		100.0 feet		Noise Source Elevations (in feet)				
Barrier Distance to Observer:		0.0 feet						
Observer Height (above Pad):		5.0 feet						
Observer Height (above Pad):		5.0 feet		Autos:	0.000			
Pad Elevation:		0.0 feet		Medium Trucks:	2.287			
Road Elevation:		0.0 feet		Heavy Trucks:	8.006			
Road Grade:		0.0%		Grade Adjustment: 0.0				
Left View:		-90.0 degrees		Lane Equivalent Distances (in feet)				
Right View:		90.0 degrees						
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	88.51	-2.43	-4.83	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	77.72	-19.87	-4.41	-1.20	-4.85	0.000	0.000	0.000
Heavy Trucks	82.86	-23.63	-4.81	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	58.3	58.4	54.8	48.5	57.2	57.8		
Medium Trucks	52.2	50.7	44.4	42.9	51.3	51.5		
Heavy Trucks	53.9	52.1	43.1	44.3	52.7	52.6		
Vehicle Noise	60.3	58.5	55.3	50.7	59.3	58.7		
Centerline Distance to Noise Contour (in feet)								
	70 dBA		65 dBA		60 dBA		55 dBA	
Ldn	19		41		88		152	
CNCEL	21		44		95		208	

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Highway 78 - West of Indian Street -

Scenario: Existing Plus Project Road Name: Alessandro Boulevard Road Segment: East of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 23,805 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,361 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 30 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Height: Barrier Type (0-Wall, 1-Berm): 0.0 feet Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees							
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 37.316 Medium Trucks: 87.214 Heavy Trucks: 97.224			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	0.91	-2.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.33	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-20.26	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.8	65.8	64.1	55.0	66.7	67.3	
Medium Trucks	61.1	59.8	59.3	51.7	60.2	60.4	
Heavy Trucks	61.2	59.0	50.7	52.0	60.2	60.5	
Vehicle Noise	68.3	67.6	64.6	58.7	68.3	69.0	
Centerline Distance to Noise Contour (in feet)							
70 dBA 65 dBA 60 dBA 55 dBA							
Ldn 77 168 357 770							
CNEL 83 178 384 826							

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Scenario: Existing Plus Project Road Name: Alessandro Boulevard Road Segment: West of Pems Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,826 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,285 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 30 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Medium Trucks: 8.006 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type REAMEL Traffic Flow Distance Finite Road Fresnel Barrier Att'n Berm Att'n									
Autos 71.78 0.78 -3.74 -1.20 -4.77 0.000 0.000									
Medium Trucks 82.40 -16.48 -3.73 -1.20 -4.89 0.000 0.000									
Heavy Trucks 86.40 -20.43 -3.73 -1.20 -5.16 0.000 0.000									
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL									
Autos 67.6 65.7 63.8 57.8 66.5 67.1									
Medium Trucks 61.0 58.5 52.1 51.8 59.0 59.3									
Heavy Trucks 61.0 58.8 50.8 51.8 59.2 59.3									
Vehicle Noise 68.2 67.4 64.5 59.5 68.1 68.6									
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn 75 162 349 753									
CNEL 81 174 376 810									

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Scenario: Existing Plus Project Road Name: Alessandro Boulevard Road Segment: East of Pems Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 18,288 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,829 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 30 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
				Vehicle/Type	Day	Evening	Night
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 77.5% 12.9% 8.0% 87.42% Medium Trucks: 84.8% 4.8% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distances (in feet)			
				Autos: 36.464 Medium Trucks: 86.404 Heavy Trucks: 96.413			
FHWA Noise Abol Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-0.20	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-17.44	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-21.43	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.9	64.0	62.2	58.1	64.8	65.4	
Medium Trucks	59.3	57.7	57.4	49.8	59.3	59.5	
Heavy Trucks	59.3	57.9	49.8	50.1	59.4	59.6	
Vehicle Noise	67.4	65.7	62.7	57.6	66.4	66.6	
Centerline Distance to Noise Contour (in feet)							
				70 dBA	65 dBA	60 dBA	55 dBA
Ldn				86	124	287	678
CNEL				62	133	297	819
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Scenario: Existing Plus Project					Project Name: Moreno Valley Valmart					
Road Name: Cactus Avenue					Job Number: 3870					
Road Segment: West of I-215 Freeway										
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS					
Highway Data					Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT): 12,872 vehicles					Autos: 15					
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15					
Peak Hour Volume: 1,267 vehicles					Heavy Trucks (3+ Axes): 15					
Vehicle Speed: 55 mph										
Near/Far Lane Distance: 30 feet										
Site Data					Vehicle Mix					
Barrier Height: 0.0 feet					Vehicle Type:		Day	Evening	Night	Daily
Barrier Type (0=Wall, 1=Berm): 0.0					Autos:		77.5%	12.9%	8.6%	87.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks:		84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet										
Observer Height (Above Road): 5.0 feet										
Pad Elevation: 0.0 feet										
Road Elevation: 0.0 feet					Noise Source Elevations (in feet)					
Road Grade: 0.0%					Autos: 0.000					
Left View: -90.0 degrees					Medium Trucks: 2.287					
Right View: 90.0 degrees					Heavy Trucks: 8.008 Grade Adjustment: 0.0					
FHWA Noise Model Calculations					Lane Equivalent Distance (in feet)					
					Autos: 38.494					
					Medium Trucks: 88.404					
					Heavy Trucks: 98.413					
Unmitigated Noise Levels (without Topo and barrier attenuation)										
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL				
Autos	84.3	62.4	60.6	54.6	65.2	63.3				
Medium Trucks	57.7	58.1	49.8	48.2	58.7	58.0				
Heavy Trucks	57.7	59.2	47.2	48.5	56.9	57.9				
Vehicle Noise:	65.8	64.1	61.1	56.3	64.9	65.3				
Centerline Distance to Noise Contour (in feet)										
		70 dBA	65 dBA	60 dBA	55 dBA					
Ldn:		45	97	208	451					
CNEL:		48	104	226	485					
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Scenario: Existing Plus Project Road Name: Cactus Avenue Road Segment: West of Elsworth Street				Project Name: Moreno Valley Walmart Job Number: 8870					
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT): 34,365 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,436 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15					
Site Data				Vehicle Mix					
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				VehicleType Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%					
FHWA Noise Model Calculations				Noise Source Elevations (in feet)					
				Autos: 0.000 Medium Trucks: 2.267 Heavy Trucks: 8.006 Grade Adjustment: 0.0					
				Lane Equivalent Distance (in feet)					
				Autos: 89.494 Medium Trucks: 89.404 Heavy Trucks: 89.413					
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos:	69.0	65.7	64.8	55.6	67.5	66.1			
Medium Trucks	82.0	60.6	54.1	52.6	61.0	61.3			
Heavy Trucks	82.0	60.6	51.6	52.6	61.2	61.3			
Vehicle Noise:	70.2	69.4	65.5	60.6	68.1	69.6			
Centerline Distance to Noise Contour (in feet)									
				70 dBA	65 dBA	60 dBA	55 dBA		
Ldn:				98	169	407	817		
CNEL:				94	203	436	942		

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Highway Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Existing Plus Project Road Name: Cactus Avenue Road Segment: East of Elsworth Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 30,708 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,071 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.219 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	2.55	-3.74	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-15.19	-3.73	-1.20	-4.59	0.000	0.000	0.000	
Heavy Trucks	86.40	-19.14	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.8	67.0	65.2	56.2	67.8	68.4			
Medium Trucks	82.3	60.8	54.4	52.9	61.3	61.8			
Heavy Trucks	82.5	60.9	51.9	53.1	61.5	61.8			
Vehicle Noise	70.5	69.7	65.8	60.9	69.4	69.8			
Centerline Distance to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn					92	198	426	917	
CNEL					98	213	458	887	

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Scenario: Existing Plus Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: West of Frederick Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 29,788 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,980 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 98 feet									
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet									
Barrier Type (0=Wall, 1=Berm): 0.0									
Centerline Dist. to Barrier: 100.0 feet									
Centerline Dist. to Observer: 100.0 feet									
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%									
Left View: -90.0 degrees									
Right View: 90.0 degrees									
					Noise Source Elevations (in feet)				
					Autos: 0.000				
					Medium Trucks: 2.267				
					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316				
					Medium Trucks: 87.214				
					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.92	-3.74	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-15.32	-3.73	-1.20	-4.69	0.000	0.000	0.000	
Heavy Trucks	86.40	-18.28	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.8	68.9	65.1	59.0	67.7	68.3			
Medium Trucks	82.2	60.9	54.3	52.7	61.2	61.4			
Heavy Trucks	82.2	60.9	51.7	53.0	61.3	61.5			
Vehicle Noise	70.3	69.6	65.6	60.6	69.3	69.6			
Centerline Distance to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn					90	194	417	898	
CNEL					97	209	449	957	

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Scenario: Existing Plus Project Road Name: Cactus Avenue Road Segment: East of Frederick Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 32,024 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,362 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist to Barrier: 100.0 feet Centerline Dist to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height Above Road: 5.0 feet Road Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Vehicle/Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.267 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	2.37	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-14.87	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-18.83	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	89.2	67.3	65.5	58.5	66.1	66.1	
Medium Trucks	92.8	61.1	54.7	53.2	61.7	61.8	
Heavy Trucks	92.6	61.2	52.2	53.4	61.8	61.9	
Vehicle Noise:	70.8	69.0	66.1	61.2	68.9	70.2	
Centerline Distance to Noise Contour (in feet)							
				70 dBA	65 dBA	60 dBA	55 dBA
Ldn:				194	267	447	963
CNEL:				108	223	481	1,036

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Scenario: Existing Plus Project Road Name: Cactus Avenue Road Segment: West of Heacock Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 26,964 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,696 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
				Autos: 77.5% 12.9% 8.6% 67.42%			
				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Site Data				Noise Source Elevations (in feet)			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 97.316 Medium Trucks: 87.214 Heavy Trucks: 97.224			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	1.43	-2.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.81	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-19.77	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	69.3	65.4	64.6	55.6	67.2	67.8	
Medium Trucks	61.7	60.2	59.8	52.2	60.7	60.9	
Heavy Trucks	61.7	60.3	61.2	52.5	60.8	61.0	
Vehicle Noise	68.8	66.1	65.1	60.3	68.0	69.3	
Centerline Distance to Noise Contour (in feet)							
70 dBA 65 dBA 60 dBA 55 dBA							
Ldn	83 160 387 893						
CNSEL	80 183 416 897						
Friday, November 08, 2013							

Scenario: Existing Plus Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: East of Heacock Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,514 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,951 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet					Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos: 83.494				
Right View: 90.0 degrees					Medium Trucks: 68.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-0.94	-4.52	-1.20	-3.77	0.000	0.000		
Medium Trucks	82.40	-17.98	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-21.94	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	65.4	63.5	61.8	55.7	64.3	64.9			
Medium Trucks	58.8	57.3	56.9	49.4	57.9	58.1			
Heavy Trucks	58.6	57.4	48.4	49.8	58.0	58.1			
Vehicle Noise	67.0	65.2	62.3	57.4	68.0	65.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	54	116	250	538					
CNSEL	58	125	269	579					
Friday, November 08, 2013									

Scenario: Existing Plus Project Road Name: Cactus Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Wal-Mart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 18,048 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,805 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 96.464 Medium Trucks: 86.404 Heavy Trucks: 96.413			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	1.43	-2.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-18.01	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-21.98	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	65.3	63.4	61.8	55.8	64.2	64.8	
Medium Trucks	58.7	57.2	56.9	49.3	57.7	58.0	
Heavy Trucks	58.7	57.3	48.3	49.5	57.6	58.0	
Vehicle Noise	66.3	65.1	62.2	57.3	65.6	66.3	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	53	114	245	528			
CNSEL	57	122	253	568			
Friday, November 08, 2013							

Scenario: Existing Plus Project				Project Name: Moreno Valley Valmart			
Road Name: Cactus Avenue				Job Number: 8870			
Road Segment: East of Indian Street							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 17,162 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,716 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 36 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle/Type Day Evening Night Daily			
Barrier Type (0=Wall, 1=Berm): 0.0				Autos: 77.5% 12.9% 8.6% 87.42%			
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet				Noise Source Elevations (in feet)			
Pad Elevation: 0.0 feet				Autos: 0.000			
Road Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Grade: 0.0%				Heavy Trucks: 8.008 Grade Adjustment: 0.0			
Left View: -90.0 degrees				Lane Equivalent Distance (in feet)			
Right View: 90.0 degrees				Autos: 98.494			
				Medium Trucks: 88.404			
				Heavy Trucks: 98.413			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-0.48	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-17.72	-4.51	-1.20	-4.86	0.000	0.000
Heavy Trucks	96.40	-21.67	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Day Night	Leq Day	Leq Evening	Leq Night	Leq Ln	CrLd	
Autos	85.4	63.7	61.9	55.9	64.5	65.1	
Medium Trucks	59.0	57.6	51.1	49.8	58.0	58.3	
Heavy Trucks	58.0	57.6	48.6	48.8	58.2	58.3	
Vehicle Noise:	67.2	65.4	62.4	57.5	66.1	65.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	95	119	256	562			
CNEL	59	128	275	584			
Friday, November 08, 2013							

Scenario: Existing Plus Project					Project Name: Moreno Valley Walmart				
Road Name: Carbus Avenue					Job Number: 8870				
Road Segment: East of Klasing Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 11,244 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,124 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 9.6% 67.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 94.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006				
Left View: -90.0 degrees					Grade Adjustment: 0.0				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-2.31	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.55	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	96.40	-23.51	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	63.7	61.6	60.1	54.0	62.7	63.3			
Medium Trucks	57.1	55.8	49.3	47.7	56.2	56.4			
Heavy Trucks	57.2	55.0	46.7	48.0	56.2	56.4			
Vehicle Noise	65.3	63.6	60.6	55.7	64.3	64.9			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln	42	90	183	416					
CNEL	45	96	208	446					
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Highway Noise Model Inputs (FHWA Noise Model)									
Scenario: Existing Plus Project Road Name: John F. Kennedy Drive Road Segment: West of Heacock Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,196 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 814 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 9.6% 67.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 93.494 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	REMSL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-3.72	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-20.98	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-24.91	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	62.3	60.4	58.7	52.6		81.2		81.9	
Medium Trucks	55.7	54.2	47.9	46.3		54.8		55.0	
Heavy Trucks	55.6	54.3	45.3	45.8		54.9		55.0	
Vehicle Noise	62.9	62.2	59.2	54.3		62.9		63.4	
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln	34	72	156	335					
CNEL	38	78	168	361					

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Scenario: Existing Plus Project Road Name: John F. Kennedy Drive Road Segment: East of Heacock Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 10,140 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,014 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berry): 0.0 Centerline Dist to Observer: 100.0 feet Centerline Dist to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 9.5% 87.42% Medium Trucks: 94.8% 4.5% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 98.464 Medium Trucks: 96.404 Heavy Trucks: 96.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-2.78	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-20.00	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	96.40	-23.88	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	63.3	61.4	59.8	53.8	62.2	62.8			
Medium Trucks	56.7	55.2	48.8	47.3	55.7	55.9			
Heavy Trucks	56.7	55.3	46.3	47.5	55.6	55.9			
Vehicle Noise	64.9	63.1	60.2	55.3	63.6	64.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln	38	84	180	368					
CNEL	42	90	194	419					

Fidrig, November 08, 2015

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Scenario: Existing Plus Project Road Name: John F. Kennedy Drive Road Segment: West of Indian Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 8,223 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 823 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 9.6% 67.42% Medium Trucks: 94.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	-3.17	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-26.41	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	96.40	-24.37	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL	
Autos	82.9	81.6	59.2	55.2	61.8	62.4	
Medium Trucks	58.3	54.6	49.4	48.9	55.3	55.8	
Heavy Trucks	58.3	54.6	45.9	47.1	55.5	55.8	
Vehicle Noise	64.5	62.7	58.8	54.9	63.4	63.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ln	36	79	169	365			
CNEL	39	95	162	352			

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Scenario: Existing Plus Project Road Name: John F. Kennedy Drive Road Segment: East of Pente Boulevard					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,106 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,011 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15				
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 94.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: Barrier Type (0-Wall, 1-Berm): 0.0 feet Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees									
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.76	-2.76	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-20.02	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	96.40	-23.97	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	83.3	61.4	59.6	53.6	62.2	62.8			
Medium Trucks	59.7	55.2	49.8	47.3	56.7	56.0			
Heavy Trucks	55.7	55.0	46.3	47.5	55.9	56.0			
Vehicle Noise	64.8	63.1	60.1	55.3	63.0	64.3			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 39 94 180 366									
CNEL: 42 90 194 417									

Friday, November 6, 2013

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Scenario: Existing Plus Project Road Name: John F. Kennedy Drive Road Segment: West of Kitching Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 9,242 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 924 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.494 Medium Trucks: 96.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.19	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-20.40	-4.51	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	86.40	-24.36	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	62.8	61.0	58.2	53.2	61.8	82.4			
Medium Trucks	56.3	54.8	46.4	46.9	55.3	55.8			
Heavy Trucks	56.5	54.9	45.9	47.1	55.5	55.8			
Vehicle Noise	64.5	62.7	59.8	54.9	63.4	63.8			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ldn:		37	79	170	395				
CNEL:		38	85	182	393				

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Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: John F. Kennedy Drive Road Segment: East of Kitching Street				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 8,084 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 698 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle/Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%				
				Medium Trucks: 94.8% 4.9% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Ber): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distances (in feet) Autos: 98.494 Medium Trucks: 96.404 Heavy Trucks: 96.413				
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.76	-4.58	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-22.22	-4.51	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	96.40	-26.17	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	61.1	59.2	57.4	51.4	60.0	60.6		
Medium Trucks	54.5	53.0	46.9	45.1	53.5	53.7		
Heavy Trucks	54.5	53.1	44.0	45.3	53.7	53.6		
Vehicle Noise	62.7	60.9	57.9	52.1	61.6	62.1		
Centerline Distance to Noise Contour (in feet)								
		70 dBA	65 dBA	60 dBA	55 dBA			
Ldn		28	80	128	278			
CNEL		30	84	138	287			

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Scenario: Existing Plus Project Road Name: Gentian Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 1,983 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 168 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15			
				Vehicle Mix			
				Vehicle/Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 94.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Site Data							
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees							
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	68.49	-3.70	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	78.45	-26.94	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	84.25	-30.88	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	53.0	51.1	51.9	49.4	45.3	51.9	52.8
Medium Trucks	46.8	45.3	39.9	37.4	45.8	46	46.8
Heavy Trucks	47.9	46.2	37.2	34.6	46.0	46	46.8
Vehicle Noise:	54.8	53.1	50.0	45.3	53.9	54	54.8
Centerline Distance to Noise Contour (in feet)							
70 dBA 65 dBA 60 dBA 55 dBA							
Ldn: 9 18 38 84							
CNEL: 9 19 42 89							

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Scenario: Existing Plus Project Road Name: Iris Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 10,952 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,093 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees				Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 94.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 39.945 Medium Trucks: 89.856 Heavy Trucks: 99.885			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	88.51	-1.43	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-16.86	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.98	-22.62	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL	
Autos	59.3	57.4	55.6	48.6	56.2	56.8	
Medium Trucks	53.2	51.7	49.4	43.4	52.3	52.5	
Heavy Trucks	54.6	53.1	44.1	45.4	53.7	53.9	
Vehicle Noise	61.3	59.5	56.3	51.7	60.3	60.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ln	22	48	104	224			
CNEL	24	52	111	240			

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Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: Iris Avenue Road Segment: East of Indian Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 12,888 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,289 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				VehicleType Day Evening Night Daily Autos: 77.5% 12.9% 6.8% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 16.9% 0.74%			
				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet) Autos: 89.484 Medium Trucks: 66.404 Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-1.72	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	62.40	-18.96	-4.51	-1.20	-4.89	0.000	0.000
Heavy Trucks	68.40	-22.91	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL	
Autos	64.3	62.4	60.7	54.6	83.2	83.8	
Medium Trucks	57.1	56.2	48.9	49.3	56.8	57.0	
Heavy Trucks	57.6	56.3	47.3	48.8	58.9	57.0	
Vehicle Noise	59.9	64.2	61.2	59.3	64.9	65.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ln	48	66	91	128			
CNEL	48	106	228	490			

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Scenario: Existing Plus Project Road Name: Iris Avenue Road Segment: West of Pennis Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870					
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (adt):		12,858 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15			
Peak Hour Volume:		1,257 vehicles		Heavy Trucks (3+ Axles):		15			
Vehicle Speed:		55 mph							
Near/Far Lane Distance:		38 feet							
Site Data				Vehicle Mix					
Barrier Height:		0.0 feet		Vehicle/Type		Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berry):		0.0		Autos:		77.5%	12.8%	8.0%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:		94.8%	4.8%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet							
Observer Height (above Pad):		5.0 feet		Noise Source Elevations (in feet)					
Pad Elevation:		0.0 feet		Autos:		0.000			
Road Elevation:		0.0 feet		Medium Trucks:		2.287		Grade Adjustment: 0.0	
Road Grade:		0.0%		Heavy Trucks:		8.008			
Left View:		-90.0 degrees		Lane Equivalent Distances (in feet)					
Right View:		90.0 degrees		Autos:		38.454			
				Medium Trucks:		86.404			
				Heavy Trucks:		96.413			
FHWA Noise Abol Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.76	-1.69	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-18.07	-4.51	-1.20	-4.86	0.000	0.000		
Heavy Trucks	68.40	-23.02	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL			
Autos	64.2	62.3	60.6	54.5	63.1	63.7			
Medium Trucks	57.6	56.1	48.8	49.2	56.7	56.9			
Heavy Trucks	57.7	56.2	47.2	48.4	56.6	56.9			
Vehicle Noise	65.0	64.0	61.1	56.2	64.6	65.2			
Centerline Distance to Noise Contour (in feet)									
				70 dBA	65 dBA	60 dBA	55 dBA		
Ln				45	97	208	448		
CNEL				46	104	224	462		

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Scenario: Existing Plus Project				Project Name: Moreno Valley Valmart					
Road Name: Iris Avenue				Job Number: 3870					
Road Segment: East of Ferris Boulevard									
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT): 16,812 vehicles				Autos: 15					
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15					
Peak Hour Volume: 1,661 vehicles				Heavy Trucks (3+ Axes): 15					
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data				Vehicle Mix					
Barrier Height: 0.0 feet				Vehicle Type		Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0				Autos:		77.5%	12.9%	9.6%	97.42%
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks:		94.8%	4.9%	10.3%	1.94%
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%				Noise Source Elevations (in feet)					
Left View: -90.0 degrees				Autos: 0.000					
Right View: 90.0 degrees				Medium Trucks: 2.287					
				Heavy Trucks: 8.008					
				Grade Adjustment: 0.0					
				Lane Equivalent Distance (in feet)					
				Autos: 39.494					
				Medium Trucks: 89.404					
				Heavy Trucks: 99.413					
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.92	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-17.86	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	68.40	-21.81	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq Ln	CNEL			
Autos	65.4	63.6	61.6	55.7	64.3	65.0			
Medium Trucks	58.8	57.3	51.0	49.4	57.9	58.1			
Heavy Trucks	58.9	57.4	48.4	48.7	58.0	58.1			
Vehicle Noise:	67.0	65.3	62.3	57.4	66.0	66.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln:	94	118	251	540					
CNEL:	59	125	276	581					
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Scenario: Existing Plus Project Road Name: Iris Avenue Road Segment: West of Lasselle Street				Project Name: Moreno Valley Valmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 17,263 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,729 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 9.6% 67.42% Medium Trucks: 84.8% 4.9% 10.3% 1.94% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 37.316 Medium Trucks: 87.214 Heavy Trucks: 97.224			
FWHA Noise Model Calculations							
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -2.44 -2.74 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -17.88 -3.73 -1.20 -4.80 0.000 0.000 Heavy Trucks: 86.40 -21.64 -3.73 -1.20 -5.16 0.000 0.000							
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 69.4 64.6 62.7 56.7 65.3 65.9 Medium Trucks: 59.8 58.3 51.9 50.4 58.8 59.1 Heavy Trucks: 59.8 59.4 49.4 50.6 58.0 58.1 Vehicle Noise: 68.0 66.2 63.3 58.4 66.9 67.4							
Centerline Distance to Noise Contour (in feet)							
70 dBA 65 dBA 60 dBA 55 dBA Ldn: 63 135 280 626 CNEL: 87 145 312 673							

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Highway Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Existing Plus Project Road Name: Iris Avenue Road Segment: East of Lasselle Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,769 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,976 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 98 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.9% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet									
Pad Elevation: 0.0 feet					Noise Source Elevations (in feet)				
Road Elevation: 0.0 feet					Autos: 0.000				
Road Grade: 0.0%					Medium Trucks: 2.297				
Left View: -90.0 degrees					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Right View: 90.0 degrees									
FWHA Noise Model Calculations					Lane Equivalent Distance (in feet)				
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten					Autos: 87.219				
Autos: 71.78 0.14 -3.74 -1.20 -4.77 0.000 0.000					Medium Trucks: 67.214				
Medium Trucks: 82.40 -17.10 -3.73 -1.20 -4.89 0.000 0.000					Heavy Trucks: 87.224				
Heavy Trucks: 86.40 -21.05 -3.73 -1.20 -5.16 0.000 0.000									
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL									
Autos: 67.0 66.1 63.3 57.3 65.9 66.5									
Medium Trucks: 60.4 58.9 52.5 51.0 59.4 59.7									
Heavy Trucks: 60.4 56.0 50.0 51.2 59.6 59.7									
Vehicle Noise: 66.6 66.8 63.8 59.0 67.5 68.0									
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn 88 147 318 694									
CNEL 74 159 342 736									

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Scenario: Existing Plus Project Road Name: Kramena Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 2,736 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 274 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 24 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 95.403 Medium Trucks: 86.314 Heavy Trucks: 95.323				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	68.46	-7.88	-4.59	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	76.46	-24.82	-4.57	-1.20	-4.85	0.000	0.000	0.000	
Heavy Trucks	84.26	-28.77	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	55.1	53.2	51.4	45.4	54.0	54.6			
Medium Trucks	49.8	47.3	41.0	39.4	47.8	48.1			
Heavy Trucks	49.7	49.3	39.2	40.5	49.6	49.0			
Vehicle Noise	59.9	55.2	52.0	47.4	55.6	56.4			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ldn		11	26	53	116				
CNEL		12	27	57	123				

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Scenario: Existing Plus Project Road Name: Kramena Avenue Road Segment: West of Ferns Boulevard					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 3,395 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 340 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 93.945 Medium Trucks: 98.956 Heavy Trucks: 99.985				
FWHA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	68.51	-6.12	-4.62	-1.20	-4.77	0.000	0.000		0.000
Medium Trucks	77.72	-23.37	-4.61	-1.20	-4.80	0.000	0.000		0.000
Heavy Trucks	82.98	-27.32	-4.61	-1.20	-5.16	0.000	0.000		0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	54.5	52.7	50.6	44.6	55.5	54.1			
Medium Trucks	49.5	47.0	40.7	39.1	47.8	47.8			
Heavy Trucks	49.8	49.4	39.4	40.7	48.0	48.1			
Vehicle Noise	55.6	54.8	51.6	47.0	55.5	56.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn:	11	23	51	109					
CNEL:	12	25	54	117					

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Highway Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Existing Plus Project Road Name: Kramena Avenue Road Segment: East of Ferns Boulevard					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 7,752 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 775 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FWHA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -3.83 -4.52 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -21.17 -4.51 -1.20 -4.80 0.000 0.000 Heavy Trucks: 86.40 -25.12 -4.61 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 62.1 60.2 57.4 52.4 61.0 61.6 Medium Trucks: 55.5 54.0 47.7 46.1 54.8 54.8 Heavy Trucks: 55.6 54.1 45.1 45.4 54.7 54.8 Vehicle Noise: 63.7 61.9 59.0 54.1 62.7 63.2					Autos: 83.484 Medium Trucks: 68.413 Heavy Trucks: 89.413				
Centerline Distance to Noise Contour (in feet)									
70 dBA			65 dBA		60 dBA		55 dBA		
Ldn: 32			70		161		325		
CNEL: 36			75		162		348		

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Scenario: Existing Plus Project Road Name: Harley Knox Boulevard Road Segment: East of Webster Avenue				Project Name: Moreno Valley Valtmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 9,815 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 866 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 45 mph				Vehicle Mix			
Near/Far Lane Distance: 24 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 93.403			
Road Grade: 0.0%				Medium Trucks: 89.314			
Left View: -90.0 degrees				Heavy Trucks: 89.323			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	88.48	-2.01	-4.88	-1.20	-4.77	0.000	0.000
Medium Trucks	78.45	-16.24	-4.57	-1.20	-4.80	0.000	0.000
Heavy Trucks	84.25	-23.20	-4.57	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	80.7	58.6	57.6	51.0	58.6	66.2	
Medium Trucks	54.4	52.8	48.8	45.0	53.5	53.7	
Heavy Trucks	55.3	53.8	44.8	46.1	54.4	54.6	
Vehicle Noise	62.5	60.8	57.6	52.9	61.5	61.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	27	98	126	271			
CNCEL	29	93	135	290			

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Scenario: Existing Plus Project Road Name: Harley Knox Boulevard Road Segment: West of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,130 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,015 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.77	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-20.00	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-23.96	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	63.3	61.4	58.6	53.6	62.2	67.8			
Medium Trucks	56.7	55.2	48.8	47.3	55.7	56.0			
Heavy Trucks	56.7	55.3	46.3	47.5	55.8	58.0			
Vehicle Noise	64.9	60.1	60.2	55.3	63.8	64.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	39	84	180	398					
CNCEL	42	80	194	418					

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Scenario: Existing Plus Project Road Name: Harley Knox Boulevard Road Segment: East of Indian Street					Project Name: Moreno Valley Wal-Mart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,082 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 698 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 98.454				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.77	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-22.23	-4.51	-1.20	-4.86	0.000	0.000		
Heavy Trucks	88.40	-26.19	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	61.1	59.2	57.4	51.3	60.0	66.6			
Medium Trucks	54.5	52.8	48.8	45.0	53.5	53.7			
Heavy Trucks	54.5	53.1	44.0	45.3	53.6	53.6			
Vehicle Noise	62.6	60.9	57.9	53.1	61.6	62.1			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	28	59	128	278					
CNCEL	30	64	138	287					

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Highway 101 - Moreno Valley Valtmart

Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart			
Road Name: Frederick Street				Job Number: 8870			
Road Segment: North of Cactus Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT):		5,964 vehicles		Autos:		15	
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15	
Peak Hour Volume:		568 vehicles		Heavy Trucks (3+ Axles):		15	
Vehicle Speed:		55 mph		Vehicle Mix			
Near/Far Lane Distance:		36 feet					
Site Data				Vehicle/Type			
Barrier Height:		0.0 feet		Day		Evening	
Barrier Type (0-Wall, 1-Berm):		0.0		Autos:		77.5% 12.9% 8.6% 87.42%	
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:		94.8% 4.9% 10.3% 1.84%	
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:		86.5% 2.7% 10.8% 0.74%	
Observer Height (Above Pad):		5.0 feet		Noise Source Elevations (in feet)			
Pad Elevation:		0.0 feet					
Road Elevation:		0.0 feet		Autos:		0.000	
Road Grade:		0.0%		Medium Trucks:		2.287	
Left View:		-90.0 degrees		Heavy Trucks:		8.006 Grade Adjustment: 0.0	
Right View:		90.0 degrees		Lane Equivalent Distance (in feet)			
FHWA Noise Model Calculations				Autos: 38.494			
				Medium Trucks: 89.404			
				Heavy Trucks: 89.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	-3.07	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-22.31	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-26.26	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	61.0	58.1	57.3	51.3	56.9	66.5	
Medium Trucks	54.4	52.6	48.5	45.0	53.4	53.7	
Heavy Trucks	54.4	53.0	44.0	45.2	53.9	53.7	
Vehicle Noise	62.6	60.8	57.8	53.0	61.5	62.0	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	27	98	127	273			
CNCEL	29	93	135	293			

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Scenario: Existing Plus Project					Project Name: Moreno Valley Walmart				
Road Name: Heacock Street					Job Number: 8870				
Road Segment: North of Alessandra Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 15,480 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,546 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.5% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet					Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos: 38.494				
Right View: 90.0 degrees					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.02	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.18	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-22.12	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.1	63.2	61.5	55.4	64.0	64.6			
Medium Trucks	58.5	57.0	50.7	49.1	57.8	57.8			
Heavy Trucks	58.6	57.1	46.1	49.4	57.7	57.8			
Vehicle Noise	66.7	65.0	62.0	57.1	65.7	65.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	52	111	239	515					
CNCEL	55	119	257	594					

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Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart			
Road Name: Heacock Street				Job Number: 8870			
Road Segment: North of Cactus Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 11,282 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,128 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 36 feet				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
				Autos: 77.5% 12.9% 8.5% 87.42%			
				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Site Data				Noise Source Elevations (in feet)			
Barrier Height: 0.0 feet				Autos: 0.000			
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 2.287			
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Centerline Dist. to Observer: 100.0 feet							
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet							
Pad Elevation: 0.0 feet							
Road Elevation: 0.0 feet							
Road Grade: 0.0%							
Left View: -90.0 degrees							
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	-2.28	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-18.53	-4.51	-1.20	-4.86	0.000	0.000
Heavy Trucks	86.40	-23.49	-4.51	-1.20	-5.18	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	63.8	61.8	60.1	54.0	62.7	63.3	
Medium Trucks	57.2	55.6	48.3	47.7	56.2	56.4	
Heavy Trucks	57.2	55.0	46.7	49.0	56.3	56.5	
Vehicle Noise	65.3	63.6	60.6	55.6	64.3	64.0	
Corrected Noise Levels to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	42	36	194	417			
CNEL	45	37	208	449			
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Scenario: Existing Plus Project Road Name: Indian Street Road Segment: South of John F. Kennedy Drive					Project Name: Moreno Valley Walmart Job Number: 8876				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,208 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 821 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494 Medium Trucks: 88.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle/Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	77.5%	82.1	-3.96	-4.82	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	84.8%	82.1	-20.92	-4.61	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.5%	82.1	-24.81	-4.61	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle/Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNLEL			
Autos	82.4	80.5	58.7	52.7	61.3	61.9			
Medium Trucks	55.8	54.3	47.9	48.4	54.8	55.1			
Heavy Trucks	55.8	54.4	45.3	46.6	55.0	55.1			
Vehicle Noise	64.0	62.2	58.2	54.4	62.9	63.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	34	73	157	337					
CNLEL	36	78	168	363					

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Scenario: Existing Plus Project Road Name: Indian Street Road Segment: North of Gerden Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 6,096 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 606 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
					VehicleType Day Evening Night Daily				
					Autos: 77.5% 12.9% 8.9% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0=Wall, 1=Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 9.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494 Medium Trucks: 89.505 Heavy Trucks: 98.585				
					FHWA Noise Model Calculations				
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	-3.81	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	77.72	-20.85	-4.81	-1.20	-4.68	0.000	0.000	0.000	0.000
Heavy Trucks	82.89	-24.81	-4.61	-1.20	-5.16	0.000	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNLEL			
Autos	57.1	55.2	53.4	47.4	56.0	56.9			
Medium Trucks	51.1	48.5	43.2	41.8	50.1	50.3			
Heavy Trucks	52.4	51.0	41.9	43.2	51.5	51.8			
Vehicle Noise	56.1	57.4	49.5	49.5	58.1	58.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	18	25	74	190					
CNLEL	17	27	80	171					

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Scenario: Existing Plus Project Road Name: Indian Street Road Segment: South of Iris Avenue				Project Name: Moreno Valley Valmart Job Number: 8870					
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT):		4,452 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15			
Peak Hour Volume:		445 vehicles		Heavy Trucks (3+ Axles):		15			
Vehicle Speed:		40 mph							
Near/Far Lane Distance:		12 feet							
Site Data				Vehicle Mix					
Barrier Height:		0.0 feet		Vehicle Type		Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berry):		0.0		Autos:		77.5%	12.9%	8.0%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:		84.8%	4.8%	10.3%	1.84%
Centerline Dist. to Observer:		0.0 feet		Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Observer Height (Above Pad):		5.0 feet		Noise Source Elevations (in feet)					
Pad Elevation:		0.0 feet		Autos:		0.000			
Road Elevation:		0.0 feet		Medium Trucks:		2.287			
Road Grade:		0.0%		Heavy Trucks:		8.006		Grade Adjustment: 0.0	
Left View:		-90.0 degrees		Lane Equivalent Distance (in feet)					
Right View:		90.0 degrees		Autos:		98.945			
				Medium Trucks:		86.869			
				Heavy Trucks:		98.965			
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	77.5%	-4.95	-4.82	-1.20	-4.77	0.000	0.000		
Medium Trucks	86.72	-22.18	-4.61	-1.20	-4.88	0.000	0.000		
Heavy Trucks	92.98	-26.15	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNLEL			
Autos	55.7	53.8	52.1	48.0	54.6	55.3			
Medium Trucks	49.7	48.2	41.8	40.3	48.8	49.0			
Heavy Trucks	51.0	49.6	40.6	41.0	50.2	50.3			
Vehicle Noise	57.0	56.0	52.7	49.2	56.7	57.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	12	26	61	130					
CNLEL	14	30	66	140					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: Indian Street Road Segment: North of Rameria Avenue					Project Name: Moreno Valley Vismart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 4,384 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 438 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Autos: 77.5% 12.9% 8.9% 87.42%									
Medium Trucks: 84.8% 4.9% 10.3% 1.84%									
Heavy Trucks: 86.5% 2.7% 10.8% 0.74%									
Site Data					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 99.406				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	77.5%	43.8	-4.82	-1.20	-4.77	0.000	0.000	0.000	0.000
Medium Trucks	84.8%	43.8	-22.07	-4.61	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.5%	43.8	-26.02	-4.61	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	55.9	54.6	52.2	46.1	54.8	55.9	55.9		
Medium Trucks	49.8	49.3	47.0	40.4	48.9	49.8	49.8		
Heavy Trucks	51.2	49.7	47.0	42.0	50.3	50.3	50.3		
Vehicle Noise	57.8	56.1	52.9	48.3	56.9	57.8	57.8		
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ln: 13 29 82 153									
CNEL: 14 31 96 142									

Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: Ferris Boulevard Road Segment: North of SR-50 V&B Ramps					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 30,672 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,067 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 30 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 67.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 37.316 Medium Trucks: 87.214 Heavy Trucks: 97.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	2.04	-2.74	-1.20	-4.77	0.000	0.000	9.000	
Medium Trucks	82.40	-16.16	-3.73	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-19.15	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.9	67.0	65.2	56.2	67.8	66.4			
Medium Trucks	82.3	60.8	54.4	52.5	61.3	61.6			
Heavy Trucks	82.3	60.8	51.8	53.1	61.5	61.6			
Vehicle Noise	70.5	68.7	65.8	60.9	68.4	69.9			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn	92 187 425 917								
CNCEL	89 212 458 966								

Friday, November 08, 2013

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Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart				
Road Name: Ferris Boulevard				Job Number: 8870				
Road Segment: SR-50 V&B Ramps to Sunnymead Blvd								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 33,360 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,336 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph								
Near/Far Lane Distance: 30 feet								
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
				Autos:	77.5%	12.9%	6.6%	67.42%
				Medium Trucks:	84.8%	4.9%	10.3%	1.84%
				Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Site Data				Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet				Autos: 0.000				
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 2.287				
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 8.006				
Centerline Dist. to Observer: 100.0 feet				Grade Adjustment: 0.0				
Barrier Distance to Observer: 0.0 feet								
Observer Height (Above Pad): 5.0 feet								
Pad Elevation: 0.0 feet								
Road Elevation: 0.0 feet								
Road Grade: 0.0%								
Left View: -90.0 degrees								
Right View: 90.0 degrees								
				Lane Equivalent Distance (in feet)				
				Autos: 37.316				
				Medium Trucks: 87.214				
				Heavy Trucks: 97.224				
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	2.41	-3.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-14.93	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-18.78	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	68.3	67.4	65.6	56.5	68.2	68.9		
Medium Trucks	82.6	61.1	54.8	53.2	61.7	61.9		
Heavy Trucks	82.7	61.3	52.2	53.5	61.8	62.0		
Vehicle Noise	70.8	69.1	66.1	61.2	69.8	70.3		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	87	208	460	959				
CNCEL	104	225	494	1,043				

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: Perris Boulevard Road Segment: South of Sunnymead Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 24,702 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,471 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 30 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
				Vehicle Type	Day	Evening	Night
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 77.5% 12.9% 8.0% 87.42% Medium Trucks: 94.8% 4.6% 10.3% 1.84% Heavy Trucks: 95.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distances (in feet)			
Autos: 98.454 Medium Trucks: 96.404 Heavy Trucks: 96.413							
FHWA Noise Abol Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	1.11	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-18.13	-4.51	-1.20	-4.85	0.000	0.000
Heavy Trucks	86.40	-20.09	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.2	65.3	63.5	57.4	68.1	68.7	
Medium Trucks	60.6	59.0	52.7	51.1	59.6	59.8	
Heavy Trucks	60.6	59.2	50.1	51.4	59.7	59.8	
Vehicle Noise	68.7	67.0	64.0	59.2	67.7	68.2	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	70	152	327	703			
CNCEL	76	159	351	757			

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: Ferris Boulevard Road Segment: North of Eucalyptus Avenue				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 20,545 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,055 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 30 feet				Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15			
				Vehicle Mix			
				Vehicle/Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 67.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet) Autos: 36.494 Medium Trucks: 86.404 Heavy Trucks: 96.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	0.30	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.93	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-20.86	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	68.4	67.6	62.7	55.6	66.3	65.9	
Medium Trucks	59.8	59.2	51.8	50.3	58.8	58.0	
Heavy Trucks	59.8	59.4	49.3	50.6	58.9	58.1	
Vehicle Noise	67.8	66.2	63.2	58.4	66.9	67.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	82	134	285	622			
CNCEL	67	144	311	668			

Friday, November 6, 2015

Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: Ferris Boulevard Road Segment: South of Cottonwood Avenue				Project Name: Moreno Valley Valmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 21,926 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,192 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 9.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Grade Adjustment: 0.0			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006			
				Lane Equivalent Distance (in feet)			
				Autos: 39.494 Medium Trucks: 89.404 Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	0.57	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.87	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	96.40	-20.63	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL	
Autos	65.0	64.7	63.6	56.6	65.5	66.1	
Medium Trucks	69.0	59.5	52.1	50.6	59.1	59.3	
Heavy Trucks	80.1	59.6	49.6	50.8	59.2	59.3	
Vehicle Noise	68.2	66.4	63.5	58.5	67.2	67.6	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ln	65	140	301	648			
CNEL	70	150	323	667			

Friday, November 08, 2013

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Highway Traffic Noise Model (FHWA) - Highway Noise Model (HNM)									
Scenario: Existing Plus Project Road Name: Ferris Boulevard Road Segment: North of Alessandro Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,516 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,806 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 9.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet)				
					Autos: 0.000				
					Medium Trucks: 2.297				
					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.494 Medium Trucks: 66.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.59	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-17.14	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	88.40	-21.10	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL			
Autos	66.7	64.3	62.5	56.4	85.1	85.7			
Medium Trucks	69.5	58.0	51.7	50.1	68.8	58.8			
Heavy Trucks	80.6	58.2	48.1	50.4	58.7	58.9			
Vehicle Noise	67.7	66.0	63.0	58.1	68.7	67.2			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ln		80	130	280	602				
CNEL		85	140	301	648				

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project Road Name: Perris Boulevard Road Segment: South of Alessandro Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 20,848 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,085 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 9.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berry): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet) Autos: 39.454 Medium Trucks: 86.404 Heavy Trucks: 96.413			
FHWA Noise Model Calculations							
Vehicle Type	RECEIVED	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	0.58	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.85	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	96.40	-20.61	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL	
Autos	66.4	64.8	62.8	58.7	65.4	66.0	
Medium Trucks	69.8	59.3	52.0	50.4	59.9	59.1	
Heavy Trucks	80.9	59.5	49.4	50.7	59.0	59.1	
Vehicle Noise	68.0	66.3	63.3	59.4	67.0	67.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ln	63	136	292	630			
CNEL	68	146	315	679			

Friday, November 08, 2013

Friday, November 08, 2013

Highway Traffic Noise Model (FHWA) - Highway Noise Model (HNM)									
Scenario: Existing Plus Project Road Name: Ferris Boulevard Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 18,758 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,876 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 9.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 0.000				
					Medium Trucks: 2.287				
					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 39.494				
					Medium Trucks: 89.404				
					Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.14	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-17.10	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	96.40	-21.06	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL			
Autos	89.2	64.3	62.5	56.5	65.1	65.1	65.1		
Medium Trucks	59.8	58.1	51.7	50.2	56.8	58.9	58.9		
Heavy Trucks	59.8	58.2	48.2	50.4	58.0	58.0	58.0		
Vehicle Noise	67.8	65.0	63.1	58.2	66.7	67.7	67.7		
Centerline Distances to Noise Contour (in feet)									
		70 dBA		65 dBA		60 dBA		55 dBA	
Ldn		61		121		261		956	
CNEL		63		140		302		952	
Friday, November 08, 2013									

Scenario: Existing Plus Project				Project Name: Moreno Valley Vismart			
Road Name: Pernis Boulevard				Job Number: 8870			
Road Segment: South of John F. Kennedy Drive							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 24,014 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,401 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 90 feet							
Site Data				VehicleType Day Evening Night Daily			
Barrier Height: 0.0 feet				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Observer: 100.0 feet				Noise Source Elevations (in feet)			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet				Autos: 0.000			
Pad Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Elevation: 0.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Road Grade: 0.0%				Lane Equivalent Distance (in feet)			
Left View: -90.0 degrees							
Right View: 90.0 degrees				Autos: 87.316			
				Medium Trucks: 87.214			
				Heavy Trucks: 87.224			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	0.96	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.26	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-20.21	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.8	65.8	64.2	55.1	66.7	67.3	
Medium Trucks	61.2	59.7	59.4	51.6	60.3	60.5	
Heavy Trucks	61.3	59.8	59.8	52.0	60.4	60.5	
Vehicle Noise	68.4	67.6	64.7	58.0	68.4	69.0	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	78	168	361	719			
CNCEL	84	180	369	806			

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Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart							
Road Name: Pernis Boulevard				Job Number: 8870							
Road Segment: North of Gerdan Avenue											
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS							
Highway Data				Site Conditions (Hard = 10, Soft = 15)							
Average Daily Traffic (ADT)		21,350 vehicles		Autos		15					
Peak Hour Percentage		10%		Medium Trucks (2 Axles)		15					
Peak Hour Volume		2,135 vehicles		Heavy Trucks (3+ Axles)		15					
Vehicle Speed		55 mph		Vehicle Mix							
Near/Far Lane Distance		90 feet									
Site Data				VehicleType				Day	Evening	Night	Daily
Barrier Height		0.0 feet		Autos		77.5%		12.9%	6.6%	87.42%	
Barrier Type (0-Wall, 1-Berm)		0.0		Medium Trucks		84.8%		4.9%	10.3%	1.84%	
Centerline Dist. to Barrier		100.0 feet		Heavy Trucks		86.5%		2.7%	10.8%	0.74%	
Centerline Dist. to Observer		100.0 feet		Noise Source Elevations (in feet)							
Barrier Distance to Observer		0.0 feet									
Observer Height (Above Road)		5.0 feet		Autos		0.000					
Pad Elevation		0.0 feet		Medium Trucks		2.287					
Road Elevation		0.0 feet		Heavy Trucks		8.006		Grade Adjustment: 0.0			
Road Grade		0.0%		Lane Equivalent Distance (in feet)							
Left View		-90.0 degrees									
Right View		90.0 degrees		Autos		87.316					
				Medium Trucks		87.214					
				Heavy Trucks		87.224					
FHWA Noise Model Calculations											
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n				
Autos	71.78	0.47	-3.74	-1.20	-4.77	0.000	0.000				
Medium Trucks	82.40	-16.77	-3.73	-1.20	-4.80	0.000	0.000				
Heavy Trucks	86.40	-20.72	-3.73	-1.20	-5.16	0.000	0.000				
Unmitigated Noise Levels (without Topo and barrier attenuation)											
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL					
Autos	67.3	65.4	63.7	57.6	66.2	66.8					
Medium Trucks	60.7	58.2	58.0	51.3	59.8	59.0					
Heavy Trucks	60.7	58.3	58.3	51.5	59.8	60.0					
Vehicle Noise	66.9	67.1	64.2	59.3	67.8	68.0					
Centerline Distance to Noise Contour (in feet)											
	70 dBA	65 dBA	60 dBA	55 dBA							
Ldn	72	155	334	720							
CNCEL	77	167	359	774							

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Scenario: Existing Plus Project Road Name: Pernis Boulevard Road Segment: Gerdan Avenue to Driveway 3					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 21,014 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,101 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.40	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.84	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.79	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.2	65.3	63.8	57.5	66.2	66.8			
Medium Trucks	60.6	59.1	58.9	51.2	59.7	59.8			
Heavy Trucks	60.7	59.3	59.2	51.5	59.6	60.0			
Vehicle Noise	66.9	67.1	64.1	59.2	67.6	68.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	71	153	331	712					
CNEL	77	155	358	768					

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Highway 3 to Dr

Scenario: Existing Plus Project				Project Name: Moreno Valley Valmart			
Road Name: Ferris Boulevard				Job Number: 8870			
Road Segment: South of Iris Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 18,066 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,807 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 90 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle Type Day Evening Night Daily			
Barrier Type (0-Wall, 1-Berm): 0.0				Autos: 77.5% 12.9% 8.6% 87.42%			
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet							
Pad Elevation: 0.0 feet				Noise Source Elevations (in feet)			
Road Elevation: 0.0 feet				Autos: 0.000			
Road Grade: 0.0%				Medium Trucks: 2.287			
Left View: -90.0 degrees				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Right View: 90.0 degrees							
FHWA Noise Model Calculations				Lane Equivalent Distances (in feet)			
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-3.28	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-17.48	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-21.45	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	65.0	64.7	62.8	56.6	65.5	66.1	
Medium Trucks	69.0	59.5	52.1	50.6	59.0	59.3	
Heavy Trucks	69.0	59.6	49.6	50.6	59.2	59.3	
Vehicle Noise	68.2	66.4	63.5	58.5	67.1	67.6	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	64	139	285	644			
CNSEL	59	148	322	692			
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Highway Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Existing Plus Project Road Name: Perris Boulevard Road Segment: North of Krameria Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,894 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,896 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos:	77.5%	12.9%	6.8%	87.42%
					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.28	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.48	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-21.78	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	66.2	64.3	62.6	56.5	66.1	66.9			
Medium Trucks	59.6	56.3	51.8	50.2	58.7	59.9			
Heavy Trucks	59.7	56.3	46.2	50.5	59.8	59.9			
Vehicle Noise	67.8	66.1	63.1	58.2	68.8	67.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	61	132	284	611					
CNSEL	55	142	305	657					

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Scenario: Existing Plus Project										Project Name: Moreno Valley Valmart									
Road Name: Perris Boulevard										Job Number: 8870									
Road Segment: South of Krameria Avenue																			
SITE SPECIFIC INPUT DATA										NOISE MODEL INPUTS									
Highway Data										Site Conditions (Hard = 10, Soft = 15)									
Average Daily Traffic (adt): 17,272 vehicles										Autos: 15									
Peak Hour Percentage: 10%										Medium Trucks (2 Axles): 15									
Peak Hour Volume: 1,727 vehicles										Heavy Trucks (3+ Axles): 15									
Vehicle Speed: 55 mph																			
Near/Far Lane Distance: 98 feet																			
										Vehicle Mix									
										VehicleType Day Evening Night Daily									
										Autos: 77.5% 12.9% 8.9% 87.42%									
										Medium Trucks: 84.8% 4.5% 10.3% 1.84%									
										Heavy Trucks: 86.5% 2.7% 10.8% 0.74%									
Site Data										Noise Source Elevations (in feet)									
Barrier Height: 0.0 feet										Autos: 0.000									
Barrier Type (0-Wall, 1-Berry): 0.0										Medium Trucks: 2.297									
Centerline Dist to Observer: 100.0 feet										Heavy Trucks: 8.006 Grade Adjustment: 0.0									
Centerline Dist to Barrier: 100.0 feet																			
Barrier Distance to Observer: 0.0 feet																			
Observer Height (Above Pad): 5.0 feet																			
Pad Elevation: 0.0 feet																			
Road Elevation: 0.0 feet										Lane Equivalent Distance (in feet)									
Road Grade: 0.0%										Autos: 87.316									
Left View: -90.0 degrees										Medium Trucks: 87.214									
Right View: 90.0 degrees										Heavy Trucks: 87.224									
FHWA Noise Model Calculations																			
VehicleType	RECEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n												
Autos	71.78	-3.25	-3.74	-1.20	-4.77	0.000	0.000												
Medium Trucks	82.40	-17.69	-3.73	-1.20	-4.85	0.000	0.000												
Heavy Trucks	86.40	-21.64	-3.73	-1.20	-5.16	0.000	0.000												
Unmitigated Noise Levels (without Topo and barrier attenuation)																			
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL													
Autos	66.4	64.5	62.7	56.7	65.3	65.9													
Medium Trucks	59.8	59.3	51.8	50.4	59.8	59.1													
Heavy Trucks	59.9	59.4	49.4	50.6	59.0	59.1													
Vehicle Noise	68.0	66.2	63.3	58.4	66.6	67.4													
Centerline Distance to Noise Contour (in feet)																			
70 dBA 65 dBA 60 dBA 55 dBA																			
Ldn 63 135 290 625																			
CNEL 67 145 312 672																			

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Scenario: Existing Plus Project Road Name: Ferris Boulevard Road Segment: North of San Michele Road				Project Name: Moreno Valley Valmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 16,316 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,632 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet				Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15			
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-3.16	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-17.43	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-21.36	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topos and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL	
Autos	85.7	84.6	83.0	56.6	65.8	66.7	
Medium Trucks	90.0	59.6	52.2	50.8	59.1	59.3	
Heavy Trucks	93.0	59.7	49.6	50.8	58.2	58.9	
Vehicle Noise	68.2	66.5	63.5	58.6	67.2	67.7	
Centerline Distance to Noise Contour (in feet)							
	70 ABL	65 ABL	60 ABL	55 ABL			
Ln	95	140	362	85.0			
CNEL	70	151	325	959			

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Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart																																						
Road Name: Fernis Boulevard				Job Number: 8870																																						
Road Segment: North of Harley Knorr Boulevard																																										
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS																																						
Highway Data Average Daily Traffic (ADT): 18,064 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,806 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 24 feet				Site Conditions (Hard = 10, Soft = 15) Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15 Vehicle Mix <table><tr><th>Vehicle Type</th><th>Day</th><th>Evening</th><th>Night</th><th>Daily</th></tr><tr><td>Autos</td><td>77.5%</td><td>12.9%</td><td>8.6%</td><td>87.42%</td></tr><tr><td>Medium Trucks</td><td>84.8%</td><td>4.9%</td><td>10.3%</td><td>1.84%</td></tr><tr><td>Heavy Trucks</td><td>88.5%</td><td>2.7%</td><td>10.8%</td><td>0.74%</td></tr></table>				Vehicle Type	Day	Evening	Night	Daily	Autos	77.5%	12.9%	8.6%	87.42%	Medium Trucks	84.8%	4.9%	10.3%	1.84%	Heavy Trucks	88.5%	2.7%	10.8%	0.74%															
Vehicle Type	Day	Evening	Night	Daily																																						
Autos	77.5%	12.9%	8.6%	87.42%																																						
Medium Trucks	84.8%	4.9%	10.3%	1.84%																																						
Heavy Trucks	88.5%	2.7%	10.8%	0.74%																																						
Site Data Barrier Height: Barrier Type (0-Wall, 1-Berm): 0.0 feet Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0 Lane Equivalent Distance (in feet) Autos: 99.403 Medium Trucks: 88.314 Heavy Trucks: 89.923																																						
FHWA Noise Model Calculations <table><tr><th>Vehicle Type</th><th>RESEL</th><th>Traffic Flow</th><th>Distance</th><th>Finite Road</th><th>Fresnel</th><th>Barrier Atten</th><th>Berm Atten</th></tr><tr><td>Autos</td><td>88.48</td><td>0.92</td><td>-4.88</td><td>-1.20</td><td>-4.77</td><td>0.000</td><td>0.000</td></tr><tr><td>Medium Trucks</td><td>79.45</td><td>-16.82</td><td>-4.57</td><td>-1.20</td><td>-4.80</td><td>0.000</td><td>0.000</td></tr><tr><td>Heavy Trucks</td><td>84.25</td><td>-20.56</td><td>-4.57</td><td>-1.20</td><td>-5.16</td><td>0.000</td><td>0.000</td></tr></table>								Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	Autos	88.48	0.92	-4.88	-1.20	-4.77	0.000	0.000	Medium Trucks	79.45	-16.82	-4.57	-1.20	-4.80	0.000	0.000	Heavy Trucks	84.25	-20.56	-4.57	-1.20	-5.16	0.000	0.000			
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten																																			
Autos	88.48	0.92	-4.88	-1.20	-4.77	0.000	0.000																																			
Medium Trucks	79.45	-16.82	-4.57	-1.20	-4.80	0.000	0.000																																			
Heavy Trucks	84.25	-20.56	-4.57	-1.20	-5.16	0.000	0.000																																			
Unmitigated Noise Levels (without Topo and barrier attenuation) <table><tr><th>Vehicle Type</th><th>Leq Peak Hour</th><th>Leq Day</th><th>Leq Evening</th><th>Leq Night</th><th>Ldn</th><th>CNEL</th></tr><tr><td>Autos</td><td>83.3</td><td>61.4</td><td>59.6</td><td>53.6</td><td>62.2</td><td>62.8</td></tr><tr><td>Medium Trucks</td><td>57.1</td><td>55.5</td><td>49.2</td><td>47.6</td><td>58.1</td><td>56.3</td></tr><tr><td>Heavy Trucks</td><td>57.9</td><td>55.5</td><td>47.4</td><td>48.7</td><td>57.0</td><td>57.2</td></tr><tr><td>Vehicle Noise</td><td>65.1</td><td>63.4</td><td>60.2</td><td>55.5</td><td>64.1</td><td>64.5</td></tr></table>								Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	Autos	83.3	61.4	59.6	53.6	62.2	62.8	Medium Trucks	57.1	55.5	49.2	47.6	58.1	56.3	Heavy Trucks	57.9	55.5	47.4	48.7	57.0	57.2	Vehicle Noise	65.1	63.4	60.2	55.5	64.1	64.5
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL																																				
Autos	83.3	61.4	59.6	53.6	62.2	62.8																																				
Medium Trucks	57.1	55.5	49.2	47.6	58.1	56.3																																				
Heavy Trucks	57.9	55.5	47.4	48.7	57.0	57.2																																				
Vehicle Noise	65.1	63.4	60.2	55.5	64.1	64.5																																				
Centerline Distance to Noise Contour (in feet) <table><tr><th></th><th>70 dBA</th><th>65 dBA</th><th>60 dBA</th><th>55 dBA</th></tr><tr><td>Ldn</td><td>40</td><td>97</td><td>186</td><td>405</td></tr><tr><td>CNEL</td><td>43</td><td>94</td><td>201</td><td>434</td></tr></table>									70 dBA	65 dBA	60 dBA	55 dBA	Ldn	40	97	186	405	CNEL	43	94	201	434																				
	70 dBA	65 dBA	60 dBA	55 dBA																																						
Ldn	40	97	186	405																																						
CNEL	43	94	201	434																																						

Friday, November 6R, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart																																						
Road Name: Fernis Boulevard				Job Number: 8870																																						
Road Segment: South of Harley Knorr Boulevard																																										
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS																																						
Highway Data Average Daily Traffic (ADT): 19,022 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,802 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 24 feet				Site Conditions (Hard = 10, Soft = 15) Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15 Vehicle Mix <table><tr><th>Vehicle Type</th><th>Day</th><th>Evening</th><th>Night</th><th>Daily</th></tr><tr><td>Autos</td><td>77.5%</td><td>12.9%</td><td>6.8%</td><td>87.42%</td></tr><tr><td>Medium Trucks</td><td>84.8%</td><td>4.9%</td><td>10.3%</td><td>1.84%</td></tr><tr><td>Heavy Trucks</td><td>88.5%</td><td>2.7%</td><td>10.8%</td><td>0.74%</td></tr></table>				Vehicle Type	Day	Evening	Night	Daily	Autos	77.5%	12.9%	6.8%	87.42%	Medium Trucks	84.8%	4.9%	10.3%	1.84%	Heavy Trucks	88.5%	2.7%	10.8%	0.74%															
Vehicle Type	Day	Evening	Night	Daily																																						
Autos	77.5%	12.9%	6.8%	87.42%																																						
Medium Trucks	84.8%	4.9%	10.3%	1.84%																																						
Heavy Trucks	88.5%	2.7%	10.8%	0.74%																																						
Site Data Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0 Lane Equivalent Distance (in feet) Autos: 89.403 Medium Trucks: 80.314 Heavy Trucks: 89.323																																						
FHWA Noise Model Calculations <table><tr><th>Vehicle Type</th><th>RESEL</th><th>Traffic Flow</th><th>Distance</th><th>Finite Road</th><th>Fresnel</th><th>Barrier Atten</th><th>Berm Atten</th></tr><tr><td>Autos</td><td>79.48</td><td>0.10</td><td>-4.56</td><td>-1.20</td><td>-4.77</td><td>0.000</td><td>0.000</td></tr><tr><td>Medium Trucks</td><td>78.45</td><td>-17.14</td><td>-4.57</td><td>-1.20</td><td>-4.89</td><td>0.000</td><td>0.000</td></tr><tr><td>Heavy Trucks</td><td>84.25</td><td>-21.10</td><td>-4.57</td><td>-1.20</td><td>-5.16</td><td>0.000</td><td>0.000</td></tr></table>								Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	Autos	79.48	0.10	-4.56	-1.20	-4.77	0.000	0.000	Medium Trucks	78.45	-17.14	-4.57	-1.20	-4.89	0.000	0.000	Heavy Trucks	84.25	-21.10	-4.57	-1.20	-5.16	0.000	0.000			
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten																																			
Autos	79.48	0.10	-4.56	-1.20	-4.77	0.000	0.000																																			
Medium Trucks	78.45	-17.14	-4.57	-1.20	-4.89	0.000	0.000																																			
Heavy Trucks	84.25	-21.10	-4.57	-1.20	-5.16	0.000	0.000																																			
Unmitigated Noise Levels (without Topo and barrier attenuation) <table><tr><th>Vehicle Type</th><th>Leq Peak Hour</th><th>Leq Day</th><th>Leq Evening</th><th>Leq Night</th><th>Ldn</th><th>CNEL</th></tr><tr><td>Autos</td><td>67.8</td><td>60.9</td><td>58.1</td><td>53.1</td><td>61.7</td><td>62.3</td></tr><tr><td>Medium Trucks</td><td>56.5</td><td>55.0</td><td>48.7</td><td>47.1</td><td>55.8</td><td>55.8</td></tr><tr><td>Heavy Trucks</td><td>57.4</td><td>55.0</td><td>46.9</td><td>48.2</td><td>55.5</td><td>58.0</td></tr><tr><td>Vehicle Noise</td><td>64.6</td><td>62.3</td><td>59.7</td><td>55.0</td><td>63.6</td><td>64.7</td></tr></table>								Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	Autos	67.8	60.9	58.1	53.1	61.7	62.3	Medium Trucks	56.5	55.0	48.7	47.1	55.8	55.8	Heavy Trucks	57.4	55.0	46.9	48.2	55.5	58.0	Vehicle Noise	64.6	62.3	59.7	55.0	63.6	64.7
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL																																				
Autos	67.8	60.9	58.1	53.1	61.7	62.3																																				
Medium Trucks	56.5	55.0	48.7	47.1	55.8	55.8																																				
Heavy Trucks	57.4	55.0	46.9	48.2	55.5	58.0																																				
Vehicle Noise	64.6	62.3	59.7	55.0	63.6	64.7																																				
Centerline Distance to Noise Contour (in feet) <table><tr><th></th><th>70 dBA</th><th>65 dBA</th><th>60 dBA</th><th>55 dBA</th></tr><tr><td>Ldn</td><td>37</td><td>80</td><td>173</td><td>374</td></tr><tr><td>CNEL</td><td>40</td><td>85</td><td>188</td><td>401</td></tr></table>									70 dBA	65 dBA	60 dBA	55 dBA	Ldn	37	80	173	374	CNEL	40	85	188	401																				
	70 dBA	65 dBA	60 dBA	55 dBA																																						
Ldn	37	80	173	374																																						
CNEL	40	85	188	401																																						

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart				
Road Name: Pernis Boulevard				Job Number: 8870				
Road Segment: North of Ramona Expressway								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 14,437 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,444 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph								
Near/Far Lane Distance: 36 feet								
				Vehicle Mix				
				Vehicle/Type	Day	Evening	Night	Daily
				Autos:	77.5%	12.9%	8.9%	87.42%
				Medium Trucks:	84.8%	4.9%	10.3%	1.84%
				Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
				Noise Source Elevations (in feet)				
				Autos:	0.000			
				Medium Trucks:	2.287			
				Heavy Trucks:	8.006			
				Grade Adjustment: 0.0				
				Lane Equivalent Distances (in feet)				
				Autos:	96.404			
				Medium Trucks:	86.404			
				Heavy Trucks:	96.413			
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	81.76	-11.29	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-18.47	-4.51	-1.20	-4.85	0.000	0.000	0.000
Heavy Trucks	86.40	-22.42	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	64.8	62.8	61.2	55.1	63.7	64.3		
Medium Trucks	58.2	56.7	50.4	48.9	57.3	57.5		
Heavy Trucks	59.3	58.0	47.8	49.1	57.4	57.5		
Vehicle Noise	66.4	64.7	61.7	56.6	65.4	65.6		
Centerline Distance to Noise Contour (in feet)								
		70 dBA		65 dBA		60 dBA		55 dBA
Ldn		48		106		228		492
CNEL		53		114		248		529

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Friday, November 08, 2013

Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart			
Road Name: Fernis Boulevard				Job Number: 3870			
Road Segment: South of Ramona Expressway							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT):		14,968 vehicles		Autos:		15	
Peak Hour Percentage:		10%		Medium Trucks (2 Axes):		15	
Peak Hour Volume:		1,457 vehicles		Heavy Trucks (3+ Axes):		15	
Vehicle Speed:		55 mph					
Near/Far Lane Distance:		30 feet					
				Vehicle Mix			
Vehicle Type:		Day	Evening	Night	Daily		
Autos:		77.5%	12.9%	8.6%	87.42%		
Medium Trucks:		84.8%	4.9%	10.3%	1.84%		
Heavy Trucks:		88.5%	2.7%	10.8%	0.74%		
Site Data							
Barrier Height:		0.0 feet					
Barrier Type (0-Wall, 1-Berm):		0.0					
Centerline Dist. to Barrier:		100.0 feet					
Centerline Dist. to Observer:		100.0 feet					
Barrier Distance to Observer:		0.0 feet					
Observer Height (Above Road):		5.0 feet					
Pad Elevation:		0.0 feet					
Road Elevation:		0.0 feet					
Road Grade:		0.0%					
Left View:		-90.0 degrees					
Right View:		90.0 degrees					
				Noise Source Elevations (in feet)			
				Autos: 0.000			
				Medium Trucks: 2.287			
				Heavy Trucks: 8.008			
				Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 97.316			
				Medium Trucks: 87.214			
				Heavy Trucks: 97.224			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	-11.16	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.43	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-22.36	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.7	63.6	62.6	55.6	64.8	65.2	
Medium Trucks	59.0	57.5	51.2	49.8	58.1	58.3	
Heavy Trucks	59.1	57.7	48.6	49.8	58.2	58.4	
Vehicle Noise	67.2	65.5	62.5	57.6	66.2	66.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	58	120	255	558			
CNEL	60	128	278	600			

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project										Project Name: Moreno Valley Valmart									
Road Name: Kitching Street										Job Number: 8870									
Road Segment: North of Cactus Avenue																			
SITE SPECIFIC INPUT DATA										NOISE MODEL INPUTS									
Highway Data										Site Conditions (Hard = 10, Soft = 15)									
Average Daily Traffic (ADT): 6,498 vehicles										Autos: 15									
Peak Hour Percentage: 10%										Medium Trucks (2 Axles): 15									
Peak Hour Volume: 647 vehicles										Heavy Trucks (3+ Axles): 15									
Vehicle Speed: 55 mph										Vehicle Mix									
Near/Far Lane Distance: 36 feet										Vehicle Type Day Evening Night Daily									
Autos: 77.5% 12.9% 8.9% 87.42%										Medium Trucks: 84.8% 4.9% 10.3% 1.84%									
Heavy Trucks: 88.5% 2.7% 10.8% 0.74%										Noise Source Elevations (in feet)									
Autos: 0.000										Medium Trucks: 2.287									
Heavy Trucks: 8.006										Grade Adjustment: 0.0									
Lane Equivalent Distance (in feet)										Autos: 93.404									
Medium Trucks: 80.404										Heavy Trucks: 89.413									
FHWA Noise Model Calculations																			
Vehicle Type		RESEL		Traffic Flow		Distance		Finite Road		Fresnel		Barrier Atten		Berm Atten					
Autos		71.78		-11.71		-4.52		-1.20		-4.77		0.000		0.000					
Medium Trucks		82.40		-21.85		-4.51		-1.20		-4.80		0.000		0.000					
Heavy Trucks		86.40		-25.91		-4.51		-1.20		-5.16		0.000		0.000					
Unmitigated Noise Levels (without Topo and barrier attenuation)																			
Vehicle Type		Leq Peak Hour		Leq Day		Leq Evening		Leq Night		Ldn		CNEL							
Autos		61.3		58.4		57.7		51.6		60.2		60.9							
Medium Trucks		54.7		53.2		46.9		45.9		53.8		54.0							
Heavy Trucks		54.0		50.4		44.3		45.8		53.9		54.3							
Vehicle Noise		62.3		61.2		58.2		53.3		61.9		62.4							
Centerline Distance to Noise Contour (in feet)																			
		70 dBA		65 dBA		50 dBA		55 dBA											
Ldn:		29		62		134		299											
CNEL:		31		67		146		310											
Friday, November 08, 2013																			

Scenario: Existing Plus Project				Project Name: Moreno Valley Valmart			
Road Name: Kitching Street				Job Number: 8870			
Road Segment: North of John F. Kennedy Drive							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 7,394 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 729 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 40 mph							
Near/Far Lane Distance: 12 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle Type Day Evening Night Daily			
Barrier Type (0-Wall, 1-Berm): 0				Autos: 77.5% 12.9% 8.6% 87.42%			
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 94.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet				Noise Source Elevations (in feet)			
Pad Elevation: 0.0 feet				Autos: 0.000			
Road Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Grade: 0.0%				Heavy Trucks: 8.008 Grade Adjustment: 0.0			
Left View: -90.0 degrees				Lane Equivalent Distances (in feet)			
Right View: 90.0 degrees				Autos: 99.945			
				Medium Trucks: 89.956			
				Heavy Trucks: 89.885			
FHWA Noise Model Calculations							
Vehicle type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	88.51	-2.78	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-18.98	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.98	-23.94	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	57.8	59.0	54.3	48.2	56.8	57.5	
Medium Trucks	51.9	50.4	44.0	42.5	51.0	51.2	
Heavy Trucks	53.2	51.8	42.8	44.0	52.4	52.5	
Vehicle Noise:	60.0	59.2	54.8	50.4	58.9	59.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	18	39	85	163			
CNSEL	20	42	91	196			
Friday, November 08, 2013							

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Highway Noise Model Inputs (FHWA Noise Model)									
Scenario: Existing Plus Project Road Name: Kitching Street Road Segment: South of John F. Kennedy Drive					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,532 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 853 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 99.945 Medium Trucks: 89.956 Heavy Trucks: 89.885				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	66.51	-2.13	-4.92	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-18.97	-4.61	-1.20	-4.89	0.000	0.000		
Heavy Trucks	82.89	-23.92	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	58.6	59.7	54.8	48.8	57.5	58.1			
Medium Trucks	52.5	51.0	44.7	43.1	51.8	51.8			
Heavy Trucks	53.6	52.4	43.4	44.7	53.0	53.1			
Vehicle Noise	60.6	59.8	55.8	51.0	59.5	60.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	20	43	89	201					
CNSEL	22	46	100	215					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Existing Plus Project				Project Name: Moreno Valley Walmart			
Road Name: Kitching Street				Job Number: 8870			
Road Segment: North of Iris Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 8,030 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 800 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 36 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle Type Day Evening Night Daily			
Barrier Type (0-Wall, 1-Berm): 0.0				Autos: 77.5% 12.9% 8.9% 97.42%			
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 94.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 96.5% 2.7% 10.9% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet							
Pad Elevation: 0.0 feet				Noise Source Elevations (in feet)			
Road Elevation: 0.0 feet				Autos: 0.000			
Road Grade: 0.0%				Medium Trucks: 2.287			
Left View: -90.0 degrees				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Right View: 90.0 degrees							
FHWA Noise Model Calculations				Lane Equivalent Distance (in feet)			
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.76	-3.64	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-22.29	-4.51	-1.20	-4.85	0.000	0.000
Heavy Trucks	86.40	-28.24	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	61.0	59.1	57.4	51.3	59.8	60.5	
Medium Trucks	54.4	52.9	48.6	45.0	53.5	53.7	
Heavy Trucks	54.4	53.0	44.0	45.2	53.6	53.7	
Vehicle Noise	62.6	60.0	57.9	52.0	61.6	62.0	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	27	58	127	274			
CNSEL	29	63	137	295			
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Scenario: Existing Plus Project					Project Name: Moreno Valley Valmart				
Road Name: Kitching Street					Job Number: 8870				
Road Segment: South of Iris Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 7,184 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 718 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0=Wall, 1=Berm): 0					Autos: 77.5% 12.9% 8.6% 67.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 94.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet									
Observer Height (Above Pad): 0.0 feet									
Road Elevation: 0.0 feet					Noise Source Elevations (in feet)				
Road Grade: 0.0%					Autos: 0.000				
Left View: -90.0 degrees					Medium Trucks: 2.287				
Right View: 90.0 degrees					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 98.494				
					Medium Trucks: 86.404				
					Heavy Trucks: 86.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	88.49	-3.40	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	78.45	-20.84	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-24.58	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	59.3	61.4	56.7	48.6	56.2	56.8			
Medium Trucks	53.1	51.8	45.2	43.7	52.1	52.4			
Heavy Trucks	53.8	52.5	43.5	44.7	53.1	53.2			
Vehicle Noise	61.2	59.4	56.3	51.6	60.1	60.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Leq	32	47	62	82					
CNEL	24	51	110	236					

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Scenario: Year 2018 Without Project					Project Name: Moreno Valley Valmart				
Road Name: Sunnymead Boulevard					Job Number: 8870				
Road Segment: Perris Boulevard to SR-60 EB On-Ramp									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 21,948 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,125 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 65 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 38.494				
					Medium Trucks: 89.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.47	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.77	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.72	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.6	64.6	62.8	56.6	66.4	66.0			
Medium Trucks	59.9	58.4	52.1	50.5	59.0	58.2			
Heavy Trucks	60.0	59.5	49.5	50.8	58.1	58.2			
Vehicle Noise	68.1	66.3	63.4	58.5	67.1	67.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	64	137	286	636					
CNEL	59	148	319	867					

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Scenario: Year 2016 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Eucalyptus Avenue					Job Number: 8870				
Road Segment: East of Perris Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,222 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 822 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph									
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					VehicleType	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.297				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 39.545				
					Medium Trucks: 69.856				
					Heavy Trucks: 98.885				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	-2.29	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-18.53	-4.61	-1.20	-4.89	0.000	0.000		
Heavy Trucks	82.89	-23.48	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	58.4	56.5	54.7	48.7	57.3	57.9			
Medium Trucks	52.4	50.9	44.5	43.0	51.4	51.7			
Heavy Trucks	53.7	52.3	43.2	44.5	52.8	53.0			
Vehicle Noise	60.4	58.7	55.4	50.8	59.4	59.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	20	42	81	188					
CNEL	21	45	88	210					

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Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Cottonwood Avenue					Job Number: 8870				
Road Segment: West of Indian Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,878 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,088 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Vehicle Mix				
Barrier Height: 0.0 feet					Noise Source Elevations (in feet)				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 2.287				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Barrier Distance to Observer: 0.0 feet					Lane Equivalent Distance (in feet)				
Observer Height (Above Pad): 5.0 feet					Autos: 38.403				
Pad Elevation: 0.0 feet					Medium Trucks: 86.314				
Road Elevation: 0.0%					Heavy Trucks: 86.323				
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	68.46	-1.88	-4.59	-1.20	-4.77	0.000	0.000		
Medium Trucks	78.45	-18.82	-4.57	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-22.78	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	61.1	59.2	57.4	51.4	60.0	60.6			
Medium Trucks	54.8	53.3	47.0	45.4	53.8	54.1			
Heavy Trucks	55.7	54.3	45.2	45.5	54.6	55.0			
Vehicle Noise	62.9	61.2	50.0	53.4	61.9	62.4			
Centerline Distance to Noise Contour (in feet)									
				70 dBA	65 dBA	60 dBA	55 dBA		
Ldn				28	62	134	388		
CNEL				21	67	144	310		
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Scenario: Year 2018 Without Project Road Name: Alessandro Boulevard Road Segment: West of Heacock Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 31,940 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,194 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				VehicleType Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
				Heavy Trucks: 88.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet)			
				Autos: 0.000			
				Medium Trucks: 2.287			
				Heavy Trucks: 8.008 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 87.316			
				Medium Trucks: 87.214			
				Heavy Trucks: 87.224			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	2.22	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.02	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	88.40	-18.89	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	69.1	67.2	65.4	55.3	66.0	65.8	66.0
Medium Trucks	82.5	61.0	54.8	53.0	61.5	61.7	61.8
Heavy Trucks	82.5	61.0	52.0	53.3	61.6	61.8	61.9
Vehicle Noise	70.6	68.8	65.8	61.1	68.5	70.1	70.2
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	94	203	437	842			
CNSEL	101	218	470	1,012			

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Noise Model Inputs and Results - Highway Data									
Scenario: Year 2018 Without Project Road Name: Alessandro Boulevard Road Segment: East of Heacock Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 29,818 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,982 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos:	77.5%	12.9%	6.8%	87.42%
					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
					Heavy Trucks:	88.5%	2.7%	10.9%	0.74%
					Noise Source Elevations (in feet)				
					Autos:	0.000			
					Medium Trucks:	2.297			
					Heavy Trucks:	8.006	Grade Adjustment: 0.0		
					Lane Equivalent Distance (in feet)				
					Autos:	87.316			
					Medium Trucks:	87.214			
					Heavy Trucks:	87.224			
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.84	-3.74	-1.20	-4.77	0.006	0.000		
Medium Trucks	82.40	-15.30	-3.73	-1.20	-4.88	0.006	0.000		
Heavy Trucks	88.40	-19.26	-3.73	-1.20	-5.16	0.006	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	68.8	66.9	65.1	58.1	67.7	68.3			
Medium Trucks	82.2	60.7	54.8	52.9	61.2	61.5			
Heavy Trucks	82.2	60.8	51.8	53.0	61.4	61.5			
Vehicle Noise	70.4	68.6	65.8	60.8	69.3	69.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	80	194	418	902					
CNSEL	97	208	450	870					

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Scenario: Year 2018 Without Project Road Name: Alessandro Boulevard Road Segment: West of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 27,333 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,733 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
Barrier Height: 0.0 feet Barrier Type (0=Wall, 1=Barrier): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 77.5% 12.9% 8.5% 87.42% Medium Trucks: 84.8% 4.8% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.54	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.89	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-18.65	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	68.4	66.5	64.7	56.7	67.3	67.8			
Medium Trucks	81.8	60.3	53.8	52.4	60.8	61.1			
Heavy Trucks	81.8	60.4	51.4	52.6	61.0	61.1			
Vehicle Noise	70.0	68.2	65.3	60.4	68.6	69.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	85	183	394	848					
CNSEL	91	187	424	919					

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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Walmart				
Road Name: Alessandro Boulevard				Job Number: 8870				
Road Segment: East of Indian Street								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 26,362 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,636 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph								
Near/Far Lane Distance: 90 feet								
Site Data				Vehicle Mix				
Barrier Height: 0.0 feet				Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-V0.5, 1-Berm): 0.0				Autos: 77.5%				
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 84.9%				
Centerline Dist. to Observer: 0.0 feet				Heavy Trucks: 88.5%				
Barrier Distance to Observer: 9.6 feet				Autos: 77.5%				
Observer Height (Above Road): 5.0 feet				Medium Trucks: 2.287				
Road Elevation: 0.0 feet				Heavy Trucks: 6.008				
Road Elevation: 9.6 feet				Grade Adjustment: 0.0				
Road Grade: 0.0%				Lane Equivalent Distance (in feet)				
Left View: -60.0 degrees				Autos: 87.316				
Right View: 80.0 degrees				Medium Trucks: 87.214				
				Heavy Trucks: 87.224				
FHWA Noise Model Calculations								
Vehicle Type	PSNELL	Traffic Flow	Distance	Finite Road	Presnell	Barrier Att'n	Berm Att'n	
Autos	71.78	1.36	-3.74	-1.20	-4.77	0.050	0.00	0.00
Medium Trucks	82.40	-15.86	-3.73	-1.20	-4.86	0.060	0.00	0.00
Heavy Trucks	86.40	-19.80	-3.73	-1.20	-5.16	0.050	0.00	0.00
Unmitigated Noise Levels (Without Topos and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL		
Autos	89.2	85.3	84.6	56.5	67.1	67		
Medium Trucks	91.8	60.1	53.8	52.2	60.7	60		
Heavy Trucks	61.7	60.2	51.2	52.5	80.9	80		
Vehicle Noise	69.8	68.1	65.1	60.2	88.8	59		
Centerline Distance to Noise Contour (in feet)								
	70 ARA	65 ARA	60 ARA	55 ARA				
Leq:	93	179	365	925				
CNEL:	89	142	414	852				
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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Vamart			
Road Name: Cactus Avenue				Job Number: 8870			
Road Segment: West of I-215 Freeway							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 27,904 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,790 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type			
				Day			
				Evening			
				Night			
				Daily			
				Autos: 77.5%			
				12.9%			
				9.6%			
				67.42%			
				Medium Trucks: 94.8%			
				4.9%			
				10.3%			
				1.84%			
				Heavy Trucks: 86.5%			
				2.7%			
				10.8%			
				0.74%			
Noise Source Elevations (in feet)				Grade Adjustment: 0.0			
Autos: 0.000							
Medium Trucks: 2.287							
Heavy Trucks: 8.006							
Lane Equivalent Distances (in feet)							
Autos: 39.494							
Medium Trucks: 89.404							
Heavy Trucks: 99.413							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	1.92	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.82	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	96.40	-19.56	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	67.7	65.6	64.6	55.0	66.8	67.2	
Medium Trucks	61.1	59.6	59.2	51.7	60.1	60.3	
Heavy Trucks	61.1	59.7	59.6	51.9	60.2	60.4	
Vehicle Noise	68.3	67.5	64.5	58.7	68.2	69.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	76	164	353	761			
CNSEL	82	175	360	818			

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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Walmart			
Road Name: Cactus Avenue				Job Number: 8870			
Road Segment: I-215 SB Ramps to I-215 NB Ramps							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 42,594 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 4,260 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 36 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				VehicleType Day Evening Night Daily			
Barrier Type (0-Wall, 1-Berm): 0.0				Autos: 77.5% 12.9% 9.6% 67.42%			
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet				Noise Source Elevations (in feet)			
Observer Height (Above Pad): 5.0 feet				Autos: 0.000			
Road Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Grade: 0.0%				Heavy Trucks: 8.006			
Left View: -90.0 degrees				Grade Adjustment: 0.0			
Right View: 90.0 degrees				Lane Equivalent Distance (in feet)			
				Autos: 39.494			
				Medium Trucks: 89.404			
				Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	3.47	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-13.77	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	88.40	-17.72	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	68.5	67.6	66.8	56.9	68.4	68.9	
Medium Trucks	62.9	61.4	60.1	53.5	62.0	62.2	
Heavy Trucks	63.6	61.5	62.5	53.8	62.1	62.2	
Vehicle Noise	71.1	66.4	68.4	61.5	70.1	70.6	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	101	216	470	1,012			
CNSEL	109	234	506	1,088			

Friday, November 08, 2013

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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Walmart			
Road Name: Cactus Avenue				Job Number: 8870			
Road Segment: East of I-215 NB Ramps							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 50,212 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 5,021 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 36 feet							
				Vehicle Mix			
				Vehicle Type			
				Autos: 77.5% 12.9% 9.5% 87.42%			
				Medium Trucks: 94.8% 4.9% 10.3% 1.84%			
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Site Data							
Barrier Height: 0.0 feet							
Barrier Type (0-Wall, 1-Berm): 0.0							
Centerline Dist. to Barrier: 100.0 feet							
Centerline Dist. to Observer: 100.0 feet							
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet							
Pad Elevation: 0.0 feet							
Road Elevation: 0.0 feet							
Road Grade: 0.0%							
Left View: -90.0 degrees							
Right View: 90.0 degrees							
				Lane Equivalent Distance (in feet)			
				Autos: 39.494			
				Medium Trucks: 89.404			
				Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.76	4.19	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-13.05	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	96.40	-17.01	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	70.2	69.3	68.6	60.5	69.1	69.8	
Medium Trucks	63.6	62.1	60.8	54.2	62.7	62.9	
Heavy Trucks	63.7	62.3	63.2	54.5	62.6	62.6	
Vehicle Noise	71.3	70.1	67.1	62.2	70.6	71.3	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	113	243	524	1,128			
CNSEL	121	252	554	1,214			

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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Valmart																							
Road Name: Cactus Avenue				Job Number: 8870																							
Road Segment: West of Elsworth Street																											
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS																							
Highway Data				Site Conditions (Hard = 10, Soft = 15)																							
Average Daily Traffic (ADT): 57,312 vehicles				Autos: 15																							
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15																							
Peak Hour Volume: 5,731 vehicles				Heavy Trucks (3+ Axles): 15																							
Vehicle Speed: 55 mph				Vehicle Mix																							
Near/Far Lane Distance: 36 feet				<table><tr><th>Vehicle Type</th><th>Day</th><th>Evening</th><th>Night</th><th>Daily</th></tr><tr><td>Autos</td><td>77.5%</td><td>12.9%</td><td>9.6%</td><td>67.42%</td></tr><tr><td>Medium Trucks</td><td>94.8%</td><td>4.9%</td><td>10.3%</td><td>1.84%</td></tr><tr><td>Heavy Trucks</td><td>86.5%</td><td>2.7%</td><td>10.8%</td><td>0.74%</td></tr></table>				Vehicle Type	Day	Evening	Night	Daily	Autos	77.5%	12.9%	9.6%	67.42%	Medium Trucks	94.8%	4.9%	10.3%	1.84%	Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Vehicle Type	Day	Evening	Night	Daily																							
Autos	77.5%	12.9%	9.6%	67.42%																							
Medium Trucks	94.8%	4.9%	10.3%	1.84%																							
Heavy Trucks	86.5%	2.7%	10.8%	0.74%																							
Site Data				Noise Source Elevations (in feet)																							
Barrier Height: 0.0 feet				Autos: 0.000																							
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 2.287																							
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 8.008																							
Centerline Dist. to Observer: 100.0 feet				Grade Adjustment: 0.0																							
Barrier Distance to Observer: 0.0 feet				Lane Equivalent Distance (in feet)																							
Observer Height (Above Road): 5.0 feet				Autos: 39.494																							
Pad Elevation: 0.0 feet				Medium Trucks: 89.404																							
Road Elevation: 0.0 feet				Heavy Trucks: 99.413																							
Road Grade: 0.0%																											
Left View: -90.0 degrees																											
Right View: 90.0 degrees																											
FHWA Noise Model Calculations																											
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten																				
Autos	71.78	4.76	-4.52	-1.20	-4.77	0.000	0.000																				
Medium Trucks	82.40	-12.48	-4.51	-1.20	-4.80	0.000	0.000																				
Heavy Trucks	96.40	-16.43	-4.51	-1.20	-5.16	0.000	0.000																				
Unmitigated Noise Levels (without Topo and barrier attenuation)																											
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL																					
Autos	70.9	68.9	67.2	61.1	66.7	70.7																					
Medium Trucks	64.2	62.7	58.3	54.6	63.3	63.3																					
Heavy Trucks	64.2	62.8	53.8	55.0	63.4	63.3																					
Vehicle Noise	72.4	70.6	67.7	62.9	71.4	71.9																					
Centerline Distance to Noise Contour (in feet)																											
		70 dBA	65 dBA	60 dBA	55 dBA																						
Ldn		123	268	572	1,293																						
CNEL		133	269	616	1,326																						

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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Walmart																							
Road Name: Cactus Avenue				Job Number: 8970																							
Road Segment: East of Elsworth Street																											
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS																							
Highway Data				Site Conditions (Hard = 10, Soft = 15)																							
Average Daily Traffic (ADT): 53,212 vehicles				Autos: 15																							
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15																							
Peak Hour Volume: 5,321 vehicles				Heavy Trucks (3+ Axles): 15																							
Vehicle Speed: 55 mph																											
Near/Far Lane Distance: 36 feet																											
				Vehicle Mix																							
				<table><tr><th>Vehicle Type</th><th>Day</th><th>Evening</th><th>Night</th><th>Daily</th></tr><tr><td>Autos</td><td>77.5%</td><td>12.9%</td><td>9.6%</td><td>67.42%</td></tr><tr><td>Medium Trucks</td><td>84.8%</td><td>4.9%</td><td>10.3%</td><td>1.84%</td></tr><tr><td>Heavy Trucks</td><td>86.5%</td><td>2.7%</td><td>10.8%</td><td>0.74%</td></tr></table>				Vehicle Type	Day	Evening	Night	Daily	Autos	77.5%	12.9%	9.6%	67.42%	Medium Trucks	84.8%	4.9%	10.3%	1.84%	Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Vehicle Type	Day	Evening	Night	Daily																							
Autos	77.5%	12.9%	9.6%	67.42%																							
Medium Trucks	84.8%	4.9%	10.3%	1.84%																							
Heavy Trucks	86.5%	2.7%	10.8%	0.74%																							
				Noise Source Elevations (in feet)																							
				Autos: 0.000																							
				Medium Trucks: 2.287																							
				Heavy Trucks: 8.006 Grade Adjustment: 0.0																							
				Lane Equivalent Distance (in feet)																							
				Autos: 37.319																							
				Medium Trucks: 67.214																							
				Heavy Trucks: 87.224																							
FHWA Noise Model Calculations																											
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten																				
Autos	71.78	4.44	-3.74	-1.20	-4.77	0.000	0.000																				
Medium Trucks	82.40	-12.80	-3.73	-1.20	-4.80	0.000	0.000																				
Heavy Trucks	86.40	-16.76	-3.73	-1.20	-5.16	0.000	0.000																				
Unmitigated Noise Levels (without Topo and barrier attenuation)																											
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL																					
Autos	71.3	68.4	67.6	61.6	70.2	70.8																					
Medium Trucks	64.7	63.2	60.8	55.3	63.7	64.0																					
Heavy Trucks	64.7	63.3	64.3	55.5	63.9	64.0																					
Vehicle Noise	72.9	71.1	68.1	63.3	71.8	72.3																					
Centerline Distance to Noise Contour (in feet)																											
<table><tr><th></th><th>70 dBA</th><th>65 dBA</th><th>60 dBA</th><th>55 dBA</th></tr><tr><td>Ldn</td><td>132</td><td>285</td><td>814</td><td>1,323</td></tr><tr><td>CNCEL</td><td>142</td><td>307</td><td>961</td><td>1,424</td></tr></table>									70 dBA	65 dBA	60 dBA	55 dBA	Ldn	132	285	814	1,323	CNCEL	142	307	961	1,424					
	70 dBA	65 dBA	60 dBA	55 dBA																							
Ldn	132	285	814	1,323																							
CNCEL	142	307	961	1,424																							

Friday, November 08

Scenario: Year 2018 Without Project Road Name: Cactus Avenue Road Segment: East of Frederick Street					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 55,626 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,562 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 94.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.93	-3.74	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-12.81	-3.73	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-16.56	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.5	68.6	67.8	61.6	70.4	71.0			
Medium Trucks	84.9	83.4	82.0	65.5	83.9	84.1			
Heavy Trucks	84.9	83.5	82.4	65.7	84.1	84.2			
Vehicle Noise	73.1	71.3	68.3	63.5	72.0	72.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	138	284	833	1,363					
CNCEL	147	315	881	1,495					

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Scenario: Year 2018 Without Project Road Name: Cactus Avenue Road Segment: West of Graham Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 53,718 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,372 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet									
Site Data					VehicleType				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 94.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 87.319				
					Medium Trucks: 87.214				
					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
VehicleType	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.40	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.78	-3.73	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-16.72	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.3	68.4	67.7	61.6	70.2	70.8			
Medium Trucks	84.7	83.2	82.8	65.9	83.8	84.0			
Heavy Trucks	84.6	83.3	82.9	65.5	83.9	84.0			
Vehicle Noise	72.9	71.1	68.2	63.3	71.8	72.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	133	287	819	1,332					
CNCEL	143	305	865	1,433					

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Scenario: Year 2018 Without Project Road Name: Cactus Avenue Road Segment: East of Graham Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 42,418 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 4,242 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 98 feet				Vehicle/Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 94.8% 4.8% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Ber) 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Road Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Grade: 0.0%				Autos: 87.316			
Left View: -90.0 degrees				Medium Trucks: 87.214			
Right View: 90.0 degrees				Heavy Trucks: 87.224			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	4.45	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-13.79	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-17.74	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	70.3	68.4	68.8	60.8	69.2	69.8	
Medium Trucks	83.7	82.2	82.2	65.8	82.7	83.0	
Heavy Trucks	83.7	82.3	82.3	64.5	82.6	83.0	
Vehicle Noise	71.9	70.1	67.2	62.3	70.6	71.3	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	114	245	528	1,138			
CNCEL	122	284	598	1,234			

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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Valmart			
Road Name: Cactus Avenue				Job Number: 8870			
Road Segment: East of Indian Street							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 22,958 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,300 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet							
Site Data				Vehicle Type Day Evening Night Daily			
Barrier Height: 0.0 feet				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 94.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Observer: 100.0 feet				Noise Source Elevations (in feet)			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet				Autos: 0.000			
Pad Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Elevation: 0.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Road Grade: 0.0%				Lane Equivalent Distance (in feet)			
Left View: -90.0 degrees							
Right View: 90.0 degrees				Autos: 38.494			
				Medium Trucks: 89.404			
				Heavy Trucks: 89.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	0.76	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.44	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-20.40	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.8	65.0	63.2	57.1	65.8	66.4	
Medium Trucks	69.2	59.7	52.4	50.8	59.3	59.5	
Heavy Trucks	69.3	59.8	49.8	51.1	58.4	58.6	
Vehicle Noise	68.4	66.7	63.7	58.0	67.4	67.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	67	144	311	671			
CNCEL	72	155	335	721			

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Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: West of Ferns Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,522 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,052 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 94.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.297				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.484				
					Medium Trucks: 68.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.90	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.44	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-20.49	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.4	64.5	62.7	56.6	66.3	66.9			
Medium Trucks	59.8	58.2	51.9	50.3	58.8	59.0			
Heavy Trucks	59.6	56.4	46.3	50.8	58.9	59.1			
Vehicle Noise	67.9	66.2	63.2	58.3	66.8	67.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	82	134	289	622					
CNCEL	67	144	310	689					

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Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: East of Pernis Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,888 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,970 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 94.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Road): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 38.454				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.76	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.12	-4.51	-1.20	-4.85	0.000	0.000		
Heavy Trucks	86.40	-21.07	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.2	64.3	62.5	58.5	65.1	65.7			
Medium Trucks	59.8	58.1	51.7	50.2	58.6	58.8			
Heavy Trucks	59.8	58.2	49.2	50.4	58.6	58.6			
Vehicle Noise	67.9	64.9	63.0	59.2	66.7	67.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	80	130	261	406					
CNEL	65	140	302	461					
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Scenario: Year 2018 Without Project Road Name: John F. Kennedy Drive Road Segment: West of Indian Street					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,835 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,063 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 38.494				
Road Grade: 0.0%					Medium Trucks: 89.404				
Left View: -90.0 degrees					Heavy Trucks: 89.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.48	-4.52	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-18.71	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-23.67	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	83.0	81.7	59.6	53.6	62.5	63.1			
Medium Trucks	57.0	55.5	49.1	47.8	58.0	58.3			
Heavy Trucks	57.0	55.6	48.6	47.8	58.2	58.3			
Vehicle Noise	65.2	63.4	60.4	55.6	64.1	64.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	41	97	186	408					
CNCEL	44	94	203	437					

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Scenario: Year 2018 Without Project Road Name: John F. Kennedy Drive Road Segment: East of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 11,336 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,104 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 89.494				
Road Grade: 0.0%					Medium Trucks: 66.404				
Left View: -90.0 degrees					Heavy Trucks: 89.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.39	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.93	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-23.98	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	63.7	61.8	60.0	53.9	62.5	83.2			
Medium Trucks	57.1	55.5	48.2	47.8	58.1	59.3			
Heavy Trucks	57.1	55.7	48.8	47.8	58.2	59.4			
Vehicle Noise	65.2	63.5	60.5	55.7	64.2	64.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	41	89	181	411					
CNCEL	44	95	205	442					

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Scenario: Year 2018 Without Project Road Name: John F. Kennedy Drive Road Segment: West of Pennis Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 11,481 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,148 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 38.494				
Road Grade: 0.0%					Medium Trucks: 89.404				
Left View: -80.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.22	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.40	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-23.42	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	63.8	61.8	60.2	54.1	62.7	63.3			
Medium Trucks	57.2	55.7	48.4	47.8	58.3	58.5			
Heavy Trucks	57.3	55.9	48.8	48.1	58.4	58.6			
Vehicle Noise	65.4	63.7	60.7	55.6	64.4	64.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	42	91	195	422					
CNCEL	45	98	211	454					

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Scenario: Year 2018 Without Project Road Name: Gentian Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 1,870 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 167 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet) Autos: 98.494 Medium Trucks: 89.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	88.48	-3.33	-4.82	-1.20	-4.77	0.000	0.000	
Medium Trucks	79.45	-26.47	-4.51	-1.20	-4.80	0.000	0.000	
Heavy Trucks	84.25	-30.43	-4.51	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	53.5	51.6	49.8	43.8	52.4	53.0		
Medium Trucks	47.3	45.8	43.9	37.9	48.3	48.5		
Heavy Trucks	48.1	46.7	45.7	39.8	47.3	47.4		
Vehicle Noise	55.3	53.6	50.5	45.0	54.3	54.8		
Centerline Distance to Noise Contour (in feet)								
70 dBA 65 dBA 60 dBA 55 dBA								
Ldn 9 19 42 90								
CNEL 19 21 45 87								

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Scenario: Year 2016 Without Project Road Name: Gentian Avenue Road Segment: East of Pennis Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 2,575 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 296 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.545 Medium Trucks: 88.685 Heavy Trucks: 88.685				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	-7.17	-4.82	-1.20	-4.77	0.006	0.000	0.000	
Medium Trucks	77.72	-24.40	-4.81	-1.20	-4.89	0.006	0.000	0.000	
Heavy Trucks	82.89	-28.36	-4.81	-1.20	-5.16	0.006	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	53.5	51.6	49.8	43.8	52.4	53.0			
Medium Trucks	47.5	46.0	43.9	38.6	48.3	48.5			
Heavy Trucks	46.5	47.4	46.4	39.8	48.0	48.1			
Vehicle Noise	55.5	53.0	50.5	45.0	54.5	55.0			
Centerline Distance to Noise Contour (in feet)									

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Scenario: Year 2018 Without Project Road Name: Santiago Drive Road Segment: East of Pennis Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 3,140 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 314 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
				Vehicle Type	Day	Evening	Night
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berrier): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 77.5% 12.9% 8.0% 87.42% Medium Trucks: 84.8% 4.8% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distances (in feet)			
				Autos: 95.945 Medium Trucks: 95.359 Heavy Trucks: 95.995			
FHWA Noise Abol Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	86.51	-5.47	-4.82	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-23.71	-4.91	-1.20	-4.85	0.000	0.000
Heavy Trucks	82.98	-27.68	-4.81	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	54.2	52.3	50.8	44.5	53.1	53.7	
Medium Trucks	48.2	46.7	46.3	39.8	47.2	47.5	
Heavy Trucks	49.5	48.1	48.1	40.3	48.7	48.6	
Vehicle Noise	59.2	54.5	51.2	46.7	55.2	55.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	10	22	46	103			
CNCEL	11	24	51	111			

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Scenario: Year 2018 Without Project Road Name: Iris Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (Adt): 10,987 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,100 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet				Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15			
				Vehicle Mix			
				Vehicle/Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet)			
				Autos: 99.945 Medium Trucks: 89.956 Heavy Trucks: 89.985			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	88.51	-1.03	-4.82	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-16.27	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.89	-22.22	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	59.7	57.6	56.0	50.0	56.8	58.2	
Medium Trucks	53.8	52.1	49.8	44.2	52.7	52.9	
Heavy Trucks	55.0	53.5	44.5	45.0	54.1	54.2	
Vehicle Noise:	61.7	59.8	56.7	52.1	60.7	61.1	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	24	51	111	258			
CNCEL	26	55	118	255			

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Highway Traffic Noise Model (

Scenario: Year 2018 Without Project Road Name: Iris Avenue Road Segment: East of Petite Boulevard				Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 17,458 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,748 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet								
Barrier Distance to Observer: 0.0 feet				Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.0 feet				Autos: 0.000				
Pad Elevation: 0.0 feet				Medium Trucks: 2.287				
Road Elevation: 0.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%								
Left View: -90.0 degrees				Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees				Autos: 38.494				
				Medium Trucks: 89.404				
				Heavy Trucks: 89.413				
FHWA Noise Model Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	-2.40	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-17.84	-4.51	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.40	-21.60	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	65.7	63.6	62.6	55.6	64.6	65.2		
Medium Trucks	59.0	57.6	51.2	49.6	58.1	58.3		
Heavy Trucks	58.1	57.7	48.6	48.6	58.2	58.4		
Vehicle Noise	67.2	65.5	62.5	57.6	66.2	66.7		
Centerline Distance to Noise Contour (in feet)								
				70 dBA	65 dBA	60 dBA	55 dBA	
Ldn				96	120	256	556	
CNEL				80	128	278	600	

Friday, November 08, 2013

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Scenario: Year 2016 Without Project Road Name: Iris Avenue Road Segment: West of Kitching Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,867 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,087 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Medium Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.494 Medium Trucks: 66.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.39	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-16.85	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-20.80	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.5	64.6	62.8	56.7	66.4	66.9			
Medium Trucks	58.8	56.3	52.0	50.4	58.9	59.1			
Heavy Trucks	56.6	56.5	46.4	50.7	59.0	59.2			
Vehicle Noise	68.0	66.3	63.3	58.4	67.0	67.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	83	136	383	831					
CNCEL	88	146	315	678					

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Scenario: Year 2018 Without Project Road Name: Iris Avenue Road Segment: East of Kitching Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 22,059 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,206 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.0% 87.42%				
					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
					FHWA Noise Abol Calculations				
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.61	-3.74	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-18.62	-3.73	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-20.58	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.5	65.8	63.8	57.7	68.4	67.0			
Medium Trucks	60.9	59.3	53.0	51.4	59.8	60.1			
Heavy Trucks	60.9	59.5	50.4	51.7	60.0	60.2			
Vehicle Noise	69.0	67.3	64.3	59.4	69.0	66.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	74	159	342	738					
CNCEL	79	171	387	782					

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Friday, November 08, 2013

Scenario: Year 2018 Without Project				Project Name: Moreno Valley Walmart					
Road Name: Iris Avenue				Job Number: 3870					
Road Segment: West of Lasselle Street									
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT): 19,968 vehicles				Autos: 15					
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15					
Peak Hour Volume: 1,969 vehicles				Heavy Trucks (3+ Axes): 15					
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 80 feet									
Site Data				Vehicle Mix					
Barrier Height: 0.0 feet				Vehicle Type:		Day	Evening	Night	Daily
Barrier Type (0=Wall, 1=Berm): 0.0				Autos:		77.5%	12.9%	8.6%	87.42%
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks:		84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%				Noise Source Elevations (in feet)					
Left View: -90.0 degrees				Autos: 0.000					
Right View: 90.0 degrees				Medium Trucks: 2.287					
				Heavy Trucks: 8.008 Grade Adjustment: 0.0					
				Lane Equivalent Distance (in feet)					
				Autos: 37.316					
				Medium Trucks: 87.214					
				Heavy Trucks: 87.224					
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.16	-3.74	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-17.05	-3.73	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	96.40	-21.01	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	81.0	65.1	63.4	57.3	66.9	65.5		65.5	
Medium Trucks	90.4	59.8	57.8	51.0	90.5	59.8		59.8	
Heavy Trucks	93.5	59.0	55.0	51.3	59.5	59.0		59.0	
Vehicle Noise:	69.8	65.8	63.8	59.0	67.5	65.8		65.8	
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Leq:	69	148	316	565					
CNEL:	74	180	344	741					

Friday, November 08, 2013

Scenario: Year 2018 Without Project Road Name: Kramenia Avenue Road Segment: West of Pennis Boulevard					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 4,462 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 448 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.945				
Road Grade: 0.0%					Medium Trucks: 89.856				
Left View: -90.0 degrees					Heavy Trucks: 89.885				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	88.51	-4.92	-4.62	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	77.72	-22.16	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	82.98	-26.12	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	55.9	53.8	52.1	46.1	54.7	55.8			
Medium Trucks	49.7	48.2	41.9	40.3	48.8	49.0			
Heavy Trucks	51.1	49.6	40.6	41.6	50.2	50.3			
Vehicle Noise	57.8	56.0	52.8	48.2	56.0	57.2			
Centerline Distance to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn					13	28	81	131	
CNEL					14	30	95	140	

Friday, November 6R, 2013

Friday, November 08, 2013

Scenario: Year 2018 Without Project Road Name: Kramenia Avenue Road Segment: East of Pennis Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 9,042 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 904 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.287				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 89.494				
Left View: -90.0 degrees					Medium Trucks: 68.404				
Right View: 90.0 degrees					Heavy Trucks: 59.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-3.29	-1.20	-4.77	0.000	0.000	0.000		
Medium Trucks	82.40	-20.50	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-24.46	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.8	66.8	58.1	53.1	61.7	62.3			
Medium Trucks	56.2	54.7	48.3	46.8	55.2	55.5			
Heavy Trucks	56.2	54.8	45.8	47.0	55.4	55.5			
Vehicle Noise	64.4	62.8	53.7	54.8	63.3	63.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	38	78	187	390					
CNCEL	38	83	190	387					

Friday, November 08, 2013

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Scenario: Year 2018 Without Project Road Name: Harley Knox Boulevard Road Segment: West of Webster Avenue				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 32,833 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,280 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph				Vehicle Mix				
Near/Far Lane Distance: 24 feet				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%				
				Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet				Noise Source Elevations (in feet)				
Barrier Type (0-Wall, 1-Berrier): 0.0				Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 2.287				
Centerline Dist. to Observer: 0.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Observer Height (above Pad): 5.0 feet				Lane Equivalent Distances (in feet)				
Pad Elevation: 0.0 feet				Autos: 85.403				
Road Elevation: 0.0 feet				Medium Trucks: 86.314				
Road Grade: 0.0%				Heavy Trucks: 95.323				
Left View: -90.0 degrees								
Right View: 90.0 degrees								
FHWA Noise Abol Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	88.46	-3.22	-4.50	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	78.46	-14.02	-4.57	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	84.26	-17.87	-4.57	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	65.8	64.0	62.2	58.2	64.8	65.4		
Medium Trucks	59.7	58.2	51.8	50.2	58.7	59.8		
Heavy Trucks	60.5	59.1	50.0	51.3	59.7	59.8		
Vehicle Noise	67.7	66.0	62.8	58.2	66.7	67.2		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	80	130	280	603				
CNCEL	65	139	300	647				

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Harley

Scenario: Year 2018 Without Project Road Name: Harley Knus Boulevard Road Segment: West of Parris Boulevard					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,905 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,265 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 32.403				
Road Grade: 0.0%					Medium Trucks: 80.314				
Left View: -90.0 degrees					Heavy Trucks: 89.323				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	88.48	-2.98	-4.88	-1.20	-4.77	0.000	0.000		
Medium Trucks	79.45	-16.16	-4.57	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-22.14	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	61.7	58.6	58.1	52.0	60.8	61.2			
Medium Trucks	55.5	54.0	47.8	48.1	54.5	54.8			
Heavy Trucks	55.3	54.0	45.9	47.1	55.5	55.6			
Vehicle Noise	63.6	61.8	58.7	54.0	62.5	63.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	32	88	146	316					
CNCEL	34	74	158	341					

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Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Ramona Expressway					Job Number: 8870				
Road Segment: West of Parris Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 37,300 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,730 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet					Vehicle Elevations (in feet)				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 2.297				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%									
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	2.89	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-14.34	-3.73	-1.20	-4.59	0.000	0.000		
Heavy Trucks	68.40	-19.30	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.7	67.8	66.1	60.0	68.5	68.2			
Medium Trucks	62.1	61.6	55.3	53.7	62.2	62.4			
Heavy Trucks	63.2	61.7	52.7	54.0	62.3	62.8			
Vehicle Noise	71.3	68.6	66.8	61.7	70.3	70.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	104	225	485	1,044					
CNCEL	112	242	521	1,123					

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Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Ramona Expressway					Job Number: 8870				
Road Segment: East of Parris Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 34,500 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,450 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	-2.58	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-14.68	-3.73	-1.20	-4.59	0.000	0.000		
Heavy Trucks	68.40	-19.64	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.4	67.5	65.7	59.7	68.3	68.8			
Medium Trucks	62.8	61.3	54.8	53.4	61.8	62.1			
Heavy Trucks	62.9	61.4	52.4	52.6	62.0	62.1			
Vehicle Noise	71.0	69.2	66.3	61.4	69.6	70.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	98	214	480	891					
CNCEL	107	230	495	1,057					
Friday, November 08, 2013									

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Scenario: Year 2018 Without Project Road Name: Indian Street Road Segment: North of Cottonwood Avenue				Project Name: Moreno Valley Valmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT):		8,651 vehicles		Autos:		15	
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15	
Peak Hour Volume:		865 vehicles		Heavy Trucks (3+ Axles):		15	
Vehicle Speed:		40 mph		Vehicle Mix			
Near/Far Lane Distance:		12 feet					
Site Data				Vehicle Type Day Evening Night Daily			
Barrier Height:		0.0 feet		Autos:		77.5% 12.9% 8.6% 87.42%	
Barrier Type (0-Wall, 1-Berm):		0.0		Medium Trucks:		84.8% 4.9% 10.3% 1.84%	
Centerline Dist. to Barrier:		100.0 feet		Heavy Trucks:		86.5% 2.7% 10.8% 0.74%	
Centerline Dist. to Observer:		100.0 feet		Noise Source Elevations (in feet)			
Barrier Distance to Observer:		0.0 feet					
Observer Height (Above Pad):		5.0 feet		Autos:		0.000	
Pad Elevation:		0.0 feet		Medium Trucks:		2.287	
Road Elevation:		0.0 feet		Heavy Trucks:		8.006 Grade Adjustment: 0.0	
Road Grade:		0.0%		Lane Equivalent Distance (in feet)			
Left View:		-90.0 degrees					
Right View:		90.0 degrees		Autos:		39.945	
FHWA Noise Model Calculations				Medium Trucks:		89.856	
				Heavy Trucks:		89.885	
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	88.51	-2.07	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-18.31	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.98	-23.26	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	59.0	59.7	56.6	46.6	57.5	56.1	
Medium Trucks	52.8	51.1	44.7	43.2	51.8	51.9	
Heavy Trucks	53.9	52.5	43.5	44.7	53.1	53.2	
Vehicle Noise	60.6	59.8	55.6	51.1	58.5	60.1	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	20	44	94	203			
CNEL	22	47	101	219			

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Scenario: Year 2018 Without Project Road Name: Indian Street Road Segment: North of Alessandro Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 11,951 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,195 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType				
Barrier Height: 0.0 feet					Day				
Barrier Type (0-Wall, 1-Berm): 0.0					Evening				
Centerline Dist. to Barrier: 100.0 feet					Night				
Centerline Dist. to Observer: 100.0 feet					Daily				
Barrier Distance to Observer: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Observer Height (Above Furg): 5.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Pad Elevation: 0.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Road Elevation: 0.0 feet					Noise Source Elevations (in feet)				
Road Grade: 0.0%					Autos: 0.000				
Left View: -90.0 degrees					Medium Trucks: 2.297				
Right View: 90.0 degrees					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Lane Equivalent Distance (in feet)									
Autos: 89.484									
Medium Trucks: 68.404									
Heavy Trucks: 59.413									
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.19	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-19.40	-4.61	-1.20	-4.89	0.000	0.000		
Heavy Trucks	68.40	-23.36	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	63.8	62.0	60.2	54.2	62.8	83.4			
Medium Trucks	57.3	55.8	48.4	47.9	56.3	56.8			
Heavy Trucks	57.5	55.9	46.9	48.1	58.5	58.8			
Vehicle Noise	65.5	63.7	60.8	55.8	64.4	64.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	43	82	189	426					
CNEL	48	88	213	458					

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Scenario: Year 2018 Without Project Road Name: Indian Street Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,424 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,242 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0=Wall, 1=Barrier): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Road): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 36.454				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-1.88	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-18.12	-4.61	-1.20	-4.80	0.000	0.000		
Heavy Trucks	68.40	-23.07	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	64.2	62.3	60.5	54.5	63.1	63.7			
Medium Trucks	57.8	56.1	48.7	48.2	56.6	56.9			
Heavy Trucks	57.9	56.2	47.2	48.4	58.6	58.6			
Vehicle Noise	65.0	64.0	61.0	56.2	64.7	65.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	44	96	205	446					
CNEL	46	109	222	479					

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Highway 77 -

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Indian Street					Job Number: 8870				
Road Segment: North of Krameria Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 5,666 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 566 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 40 mph									
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos	77.5%	12.9%	8.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 0.0 feet					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 93.945				
					Medium Trucks: 98.956				
					Heavy Trucks: 99.885				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	68.51	3.91	-4.62	-1.20	-2.77	0.000	0.000	9.000	
Medium Trucks	77.72	21.15	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	82.98	-25.11	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	59.8	54.8	53.1	47.1	56.7	56.3			
Medium Trucks	59.8	49.2	47.8	41.3	49.8	50.0			
Heavy Trucks	52.1	50.7	41.6	42.6	51.2	51.3			
Vehicle Noise	58.8	57.1	53.8	48.2	57.0	50.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	15	33	71	153					
CNCEL	16	35	76	164					

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Friday, November 08, 2013

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Indian Street					Job Number: 8870				
Road Segment: South of Krameria Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 3,392 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 336 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph									
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	-8.15	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-23.39	-4.61	-1.20	-4.89	0.000	0.000		
Heavy Trucks	82.89	-27.34	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	54.5	52.6	50.8	44.8	53.5	54.1			
Medium Trucks	48.5	47.0	40.7	39.1	47.8	47.8			
Heavy Trucks	46.6	45.4	36.4	40.8	49.0	49.1			
Vehicle Noise	56.6	54.0	51.5	47.0	55.5	55.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	11	23	50	109					
CNCEL	12	25	54	116					

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Friday, November 08, 2013

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Wal-Mart				
Road Name: Indian Street					Job Number: 8870				
Road Segment: South of Harley Knca. Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 7,730 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 770 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 36.454				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.91	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-21.20	-4.51	-1.20	-4.85	0.000	0.000		
Heavy Trucks	86.40	-25.15	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	62.1	59.2	58.4	52.4	61.0	61.6			
Medium Trucks	55.5	54.0	47.8	46.1	54.5	54.8			
Heavy Trucks	55.5	54.1	45.1	45.3	54.7	54.8			
Vehicle Noise	63.7	61.9	59.0	54.1	62.6	62.1			
Centrality Distance to Noise (in feet)									
	70-85A	65-85A	60-85A	55-85A					
Ldn	32	76	153	323					
CNEL	35	75	151	348					
Friday, November 08, 2013									

Scenario: Year 2018 Without Project Road Name: Fernis Boulevard Road Segment: North of Eucalyptus Avenue				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 24,363 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,436 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
				Vehicle Mix			
				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 88.5% 2.7% 10.8% 0.74%			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distance (in feet) Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	1.04	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.18	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	88.40	-20.15	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.1	65.2	63.4	57.4	66.0	66.8	
Medium Trucks	69.5	59.0	52.8	51.1	59.5	59.8	
Heavy Trucks	69.5	59.1	50.1	51.3	58.7	58.9	
Vehicle Noise	68.7	66.8	64.0	58.1	67.5	69.1	
Centerline Distance to Noise Contour (in feet)							
70 dBA 65 dBA 60 dBA 55 dBA							
Ldn	70	150	323	667			
CNCEL	75	162	348	750			

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Scenario: Year 2016 Without Project Road Name: Fernis Boulevard Road Segment: South of Eucalyptus Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 23,121 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,312 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 88.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.494 Medium Trucks: 68.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.82	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.42	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-20.38	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.8	65.0	63.2	57.2	66.8	66.4			
Medium Trucks	68.2	58.8	52.8	50.9	59.3	59.5			
Heavy Trucks	68.2	58.9	48.8	51.1	59.5	59.8			
Vehicle Noise	68.5	66.7	63.7	58.8	67.4	67.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	67	145	312	673					
CNCEL	72	158	338	724					

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Scenario: Year 2018 Without Project Road Name: Perris Boulevard Road Segment: North of Cottonwood Avenue				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 21,328 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,133 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
				Vehicle Type	Day	Evening	Night
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 94.8% 4.8% 10.3% 1.84% Heavy Trucks: 96.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distances (in feet)			
				Autos: 98.494 Medium Trucks: 96.404 Heavy Trucks: 96.413			
FHWA Noise Abol Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	1.54	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.70	-4.51	-1.20	-4.86	0.000	0.000
Heavy Trucks	88.40	-19.65	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.6	65.7	63.8	57.9	68.5	67.1	
Medium Trucks	69.0	59.5	53.1	51.9	60.0	60.2	
Heavy Trucks	69.0	59.6	50.8	51.0	60.2	60.3	
Vehicle Noise	69.2	67.4	64.5	59.6	69.1	69.6	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	75	162	348	762			
CNCEL	81	174	378	809			

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 Without Project Road Name: Fernis Boulevard Road Segment: South of Cottonwood Avenue					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 24,413 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,441 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 88.5% 2.7% 10.8% 0.74%				
Site Data									
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.05	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.18	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-20.14	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.1	65.2	63.4	57.4	66.0	66.8			
Medium Trucks	69.5	59.0	52.8	51.1	59.8	59.8			
Heavy Trucks	69.5	59.1	50.1	51.3	58.7	58.9			
Vehicle Noise:	68.7	66.8	64.0	58.1	67.7	69.1			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 70 150 324 668									
CNEL: 75 162 348 751									

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 Without Project				Project Name: Moreno Valley Vmart			
Road Name: Fernis Boulevard				Job Number: 8870			
Road Segment: North of Cactus Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 21,068 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,106 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 89.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	0.42	-4.82	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.82	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-20.76	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.6	64.6	62.8	56.6	66.4	66.0	
Medium Trucks	59.9	58.4	52.0	50.5	58.9	59.1	
Heavy Trucks	59.9	59.5	49.4	50.7	58.1	58.2	
Vehicle Noise	68.1	66.3	63.3	58.5	67.0	67.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	83	138	284	633			
CNCEL	89	147	316	661			

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Valmart				
Road Name: Fernis Boulevard					Job Number: 8870				
Road Segment: South of Cactus Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,206 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,221 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Fard): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 37.219				
					Medium Trucks: 67.214				
					Heavy Trucks: 67.224				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.84	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.80	-3.73	-1.20	-4.59	0.000	0.000		
Heavy Trucks	86.40	-20.56	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.5	66.6	63.8	57.8	68.4	67.9			
Medium Trucks	60.9	59.4	53.0	51.5	59.9	60.2			
Heavy Trucks	60.6	59.5	50.5	51.7	60.1	60.2			
Vehicle Noise	69.1	67.3	64.3	59.5	68.0	68.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	74	158	343	739					
CNCEL	80	171	369	795					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Pernis Boulevard					Job Number: 8870				
Road Segment: North of John F. Kennedy Drive									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,704 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,970 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.5% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.12	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.12	-3.73	-1.20	-4.65	0.000	0.000		
Heavy Trucks	86.40	-21.07	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.0	65.1	63.3	57.2	65.8	66.5			
Medium Trucks	60.4	58.9	52.5	50.9	58.4	59.6			
Heavy Trucks	60.4	59.0	49.9	51.2	59.5	59.7			
Vehicle Noise	69.5	69.3	63.0	59.0	67.5	66.0			
Centerline Distance to Noise (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	86	147	217	682					
CNEL	73	159	341	794					
Friday, November 08, 2013									

Scenario: Year 2018 Without Project

Road Name: Pierre Boulevard

Road Segment: South of this Avenue

Project Name: Morris Valley Wastwat

Job Number: 0876

SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (H=10, S=10, I=1)					
Average Daily Traffic (Adt)		20,634 vehicles		Autos:		15			
Peak Hour Percentage		10%		Medium Trucks (2 Autos):		15			
Peak Hour Volume		2,063 vehicles		Heavy Trucks (3+ Autos):		15			
Vehicle Speed		55 mph							
Near/Far Lane Distance:		80 feet							
Site Data				Vehicle Mix					
Barrier Height:		0.0 feet		Vehicle Type		Day	Evening	Night	Delay
Barrier Type (0=Wall, 1=Berry):		0.0		Autos:		77.5%	12.9%	9.6%	67.4%
Centerline Dist to Barrier:		100.0 feet		Medium Trucks:		84.9%	4.9%	10.3%	1.94%
Centerline Dist to Observer:		100.0 feet		Heavy Trucks:		85.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet							
Observer Height (Above Pad):		5.0 feet		Noise Source Elevations (in feet)					
Pad Elevation:		0.0 feet		Autos:		0.000			
Road Elevation:		0.0 feet		Medium Trucks:		2.267			
Road Grade:		0.0%		Heavy Trucks:		6.008 Grade Adjustment: 0.0			
Left View: -60.0 degrees				Lane Equivalent Distances (in feet)					
Right View: 80.0 degrees				Autos:		67.316			
				Medium Trucks:		87.214			
				Heavy Trucks:		87.224			
FHWA Noise Model Calculations									
Vehicle Type	FRESEL	Traffic Flow	Distance	Finite Road	Freerel	Barrier Atten	Berm Atten		
Autos:	71.78	0.32	-1.74	-1.20	-4.77	0.000	0.000		
Medium Trucks:	82.40	-16.91	-3.73	-1.20	-4.86	0.000	0.000		
Heavy Trucks:	86.40	-20.87	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (Without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos:	87.2	85.3	83.5	81.4	86.1	86			
Medium Trucks:	90.8	69.1	62.7	61.1	98.8	59			
Heavy Trucks:	90.8	59.2	50.1	51.4	58.7	58			
Vehicle Noise:	69.7	67.0	64.0	58.2	67.7	63			
Centerline Distance to Noise Contour (in feet)									
	70 dBA		65 dBA		60 dBA		55 dBA		
Left:	78		152		327		764		
Right:	76		163		361		757		

Friday, November 09, 2013

Scenario: Year 2016 Without Project Road Name: Peris Boulevard Road Segment: North of Kramena Avenue				Project Name: Morera Valley Walmart Job Number: 0970			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 19,513 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15			
Peak Hour Volume: 1,861 vehicles				Heavy Trucks (3+ Axes): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 30 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle Type Day Evening Night Daily			
Barrier Type (0=Wall, 1=Berms): 0.0				Autos: 77.5% 12.9% 6.8% 97.42%			
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 88.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Flag): 5.0 feet				Noise Source Elevations (in feet)			
Paid Elevation: 0.0 feet				Autos: 0.000			
Road Elevation: 0.0 feet				Medium Trucks: 2.297			
Road Grade: 0.0%				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Left View: -90.0 degrees				Lane Equivalent Distance (in feet)			
Right View: 90.0 degrees				Autos: 87.516			
				Medium Trucks: 67.214			
				Heavy Trucks: 67.204			
FHWA Noise Model Calculations							
Vehicle Type	REMSL	Traffic Flow	Distance	Finite Road	Present	Barrier Att'n	Barrier Att'n
Autos	71.78	0.99	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-17.16	-3.73	-1.20	-4.59	0.000	0.000
Heavy Trucks	85.40	-21.11	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	66.8	65.0	63.3	57.2	65.9	66.4	
Medium Trucks	80.2	68.9	52.4	50.9	69.4	59.8	
Heavy Trucks	80.4	58.9	46.3	51.1	59.5	59.5	
Vehicle Noise	66.5	66.7	63.8	58.9	67.5	67.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	58	145	315	878			
CNEL	73	157	339	728			

Friday, November 08, 2013

Scenario: Year 2018 Without Project Road Name: Pernis Boulevard Road Segment: South of Kraemer Avenue				Project Name: Moreno Valley Plz/Highway Job Number: 9870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 20,382 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,638 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph				Vehicle Mix				
Near/Far Lane Distance: 90 feet								
Site Data				Vehicle Type	Day	Evening	Night	Daily
Barrier Height: 0.0 feet				Autos	77.5%	12.8%	9.1%	97.42%
Barrier Type (0=W, 1=BSF1)				Medium Trucks	94.8%	4.5%	10.3%	1.94%
Centerline Dist to Barrier: 100.0 feet				Heavy Trucks	96.5%	2.7%	10.8%	0.74%
Centerline Dist to Observer: 100.0 feet				Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet								
Observer Height (Above Rd): 5.0 feet				Autos	0.000			
Observer Height (Above Pav): 0.0 feet				Medium Trucks	2.297			
Road Elevation: 0.0 feet				Heavy Trucks	9.006			
Road Grade: 0.0%				Grade Adjustment: 0.0				
Left View: -80.0 degrees				Lane Equivalence Distance (in feet)				
Right View: 80.0 degrees								
FINRA Noise Abol Calculations				Autos	87.316			
Vehicle Type	RECEL	Traffic Flow	Distance	Pointe Road	Freeway	Barrier Offset	Berm Attent	
Autos	71.76	0.27	-3.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-18.97	-3.73	-1.20	-4.68	0.000	0.000	
Heavy Trucks	90.40	-29.92	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (Without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	67.1	65.2	63.5	57.4	68.6	68.6		
Medium Trucks	69.5	69.0	62.9	51.1	68.6	68.6		
Heavy Trucks	69.5	69.1	50.1	51.3	59.7	59.8		
Vehicle Noise	69.7	69.9	64.0	59.1	67.7	66.1		
Centerline Distances to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ln	16	150	524	658				
CNEL	76	192	349	751				

Fridg, November 08, 2015

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Valmart				
Road Name: Fernis Boulevard					Job Number: 8870				
Road Segment: North of San Michele Road									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 21,905 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,161 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	0.52	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.72	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.67	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.4	65.6	63.7	57.6	66.3	66.9			
Medium Trucks	69.8	59.3	52.9	51.3	59.8	60.0			
Heavy Trucks	60.8	59.4	50.3	51.6	58.9	60.1			
Vehicle Noise	68.8	67.2	64.2	58.4	67.9	69.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	73	158	337	726					
CNEL	78	168	362	761					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Fernis Boulevard					Job Number: 8870				
Road Segment: San Michele Road to Nandina Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 21,152 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,115 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 90 feet					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet					Vehicle Elevations (in feet)				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 2.297				
Centerline Dist. to Observer: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Observer Height (Above Furg): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%									
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	0.43	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.81	-3.73	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-20.76	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.3	65.4	63.6	57.6	66.2	66.8			
Medium Trucks	60.7	58.2	52.8	51.3	59.7	59.9			
Heavy Trucks	60.7	56.3	50.2	51.5	59.8	60.0			
Vehicle Noise	60.9	57.1	54.1	59.3	67.8	68.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	71	154	332	715					
CNEL	77	166	357	770					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Pernis Boulevard					Job Number: 8870				
Road Segment: South of Nandina Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 28,838 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,691 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.5% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	0.52	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.75	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-19.72	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.3	66.4	64.7	58.8	67.2	67.8			
Medium Trucks	61.7	60.2	53.8	52.3	60.8	61.0			
Heavy Trucks	61.8	60.3	51.3	52.5	60.6	61.0			
Vehicle Noise	68.3	66.1	63.2	60.3	60.6	66.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	64	161	330	840					
CNEL	60	185	419	904					

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Scenario: Year 2018 Without Project				Project Name: Moreno Valley Vistarist			
Road Name: Perris Boulevard				Job Number: 0076			
Road Segment: North of Highway 70 and Boulevard							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 1)			
Average Daily Traffic (Adt): 30,800 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15			
Peak Hour Volume: 3,060 vehicles				Heavy Trucks (3+ Axes): 15			
Vehicle Speed: 45 mph							
Near/Far Lane Distance: 24 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle Type Day Evening Night Daily			
Barrier Type: (0-Wall, 1-Berry): 0.0 feet				Autos: 77.5% 12.9% 8.6% 87.42%			
Centerline Dist to Barrier: 100.0 feet				Medium Trucks: 94.9% 4.9% 10.3% 1.94%			
Centerline Dist to Observer: 100.0 feet				Heavy Trucks: 86.6% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet				Noise Source Elevations (in feet)			
Observer Height Above Road: 0.0 feet				Autos: 0.000			
Road Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Grade: 0.0%				Heavy Trucks: 0.000 Grade Adjustment: 0.0			
Left View: -50.0 degrees				Lane Equivalent Distance (in feet)			
Right View: 80.0 degrees				Autos: 99.403			
				Medium Trucks: 98.314			
				Heavy Trucks: 99.923			
FHWA Noise Roadway Calculations							
Vehicle Type	REWEI	Traffic Flow	Distance	Profile Road	Freerze	Barrier Adm	Barri.Allen
Autos	88.49	2.91	-4.58	-1.20	-4.77	0.000	0.000
Medium Trucks	79.45	-14.33	-4.57	-1.20	-4.86	0.000	0.000
Heavy Trucks	94.25	-18.28	-4.57	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL	
Autos	85.1	63.7	61.6	55.6	64.5	65.1	
Medium Trucks	59.9	57.6	61.5	49.8	58.4	58.9	
Heavy Trucks	60.2	58.6	48.7	71.0	58.3	98.8	
Vehicle Noise	67.4	65.7	62.5	57.9	66.4	99.5	
Centerline Distances to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Left:	57	134	267	575			
CNEL:	82	133	266	617			
Friday, November 08, 2013							

Scenario: Year 2018 Without Project		Project Name: Morris Valley Wastwat					
Road Name: Kiching Street		Job Number: 0876					
Road Segment: North of J.R. Kennedy Drive							
SITE SPECIFIC INPUT DATA		NOISE MODEL INPUTS					
Highway Data		Site Conditions (H=10, Soft=1)					
Average Daily Traffic (Adt)	8,821 vehicles	Autos: 15					
Peak Hour Percentage	15%	Medium Trucks (2 Axes): 15					
Peak Hour Volume	862 vehicles	Heavy Trucks (3+ Axes): 15					
Vehicle Speed	40 mph						
Near/Far Lane Distance:	12 feet						
Site Data		Vehicle Mix					
Barrier Height:	0.0 feet	Vehicle Type	Day Evening Night Day				
Barrier Type (0=Wall, 1=Berry)	0	Autos	77.5% 12.9% 9.6% 97.4%				
Centerline Dist to Barrier	100.0 feet	Medium Trucks	84.9% 4.9% 10.3% 1.94%				
Centerline Dist to Observer	100.0 feet	Heavy Trucks	88.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer	0.0 feet						
Observer Height (Above Road)	5.0 feet	Noise Source Elevations (in feet)					
Prod. Elevation	0.0 feet	Autos: 0.000					
Road Elevation	0.0 feet	Medium Trucks: 2.267					
Road Grade:	0.0%	Heavy Trucks: 6.008 Grade Adjustment: 6.0					
Left View: -60.0 degrees		Lane Equivalent Distances (in feet)					
Right View: 80.0 degrees		Autos: 99.945					
		Medium Trucks: 98.956					
		Heavy Trucks: 99.985					
FHWA Noise Model Calculations							
Vehicle Type	FEMSEL	Traffic Flow	Distance	Finite Road	Freeway	Barrier Att'n	Berm Att'n
Autos	68.51	-1.96	-4.62	-1.20	-4.77	0.050	0.50
Medium Trucks	77.72	-16.22	-4.61	-1.20	-4.86	0.050	0.09
Heavy Trucks	82.99	-23.18	-4.61	-1.20	-5.16	0.050	0.00
Unimodal Noise Levels (without Top and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	58.7	55.6	55.0	46.0	57.8	56	
Medium Trucks	52.7	51.2	44.8	43.3	51.2	52	
Heavy Trucks	54.0	52.6	43.5	44.8	53.2	53	
Vehicle Noise	60.7	59.0	55.7	51.2	58.7	60	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Left:	21	44	58	206			
CNEL:	22	47	102	220			

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Scenario: Year 2016 Without Project										Project Name: Morana Valley Walmart										
Road Name: Kitching Street										Job Number: 0970										
Road Segment: South of John F. Kennedy Drive																				
SITE SPECIFIC INPUT DATA										NOISE MODEL INPUTS										
Highway Data										Site Conditions (Hard = 10, Soft = 15)										
Average Daily Traffic (ADT): 9,898 vehicles										Autos: 15										
Peak Hour Percentage: 10%										Medium Trucks (2 Axes): 15										
Peak Hour Volume: 987 vehicles										Heavy Trucks (3+ Axes): 15										
Vehicle Speed: 40 mph																				
Near/Far Lane Distance: 12 feet																				
Site Data										Vehicle Mix										
Barrier Height: 0.0 feet										Vehicle Type: Day Evening Night Daily										
Barrier Type (0=Wall, 1=Berms): 0.0										Autos: 77.5% 12.9% 6.8% 97.42%										
Centerline Dist. to Barrier: 100.0 feet										Medium Trucks: 84.8% 4.9% 10.3% 1.84%										
Centerline Dist. to Observer: 100.0 feet										Heavy Trucks: 88.5% 2.7% 10.8% 0.74%										
Barrier Distance to Observer: 5.0 feet																				
Observer Height (Above Flag): 0.0 feet										Noise Source Elevations (in feet)										
Paid Elevation: 0.0 feet										Autos: 0.000										
Road Elevation: 0.0 feet										Medium Trucks: 2.297										
Road Grade: 0.0%										Heavy Trucks: 8.006 Grade Adjustment: 0.0										
Left View: -90.0 degrees										Lane Equivalent Distance (in feet)										
Right View: -90.0 degrees										Autos: 99.945										
										Medium Trucks: 68.856										
										Heavy Trucks: 99.665										
FHWA Noise Model Calculations																				
Vehicle Type		REWEI	Traffic Flow	Distance	Finite Road	Present	Barrier Att'n	Barrier Att'n												
Autos		66.61	-1.45	-4.92	-1.20	-4.77	0.000	0.000												
Medium Trucks		77.72	-18.69	-4.81	-1.20	-4.59	0.000	0.000												
Heavy Trucks		82.89	-22.85	-4.61	-1.20	-5.16	0.000	0.000												
Unmitigated Noise Levels (without Topo and barrier attenuation)																				
Vehicle Type		Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL													
Autos		68.2	57.3	55.6	49.6	58.1	58.9													
Medium Trucks		69.2	61.7	45.3	43.9	62.3	62.5													
Heavy Trucks		64.5	52.1	44.1	45.3	53.7	53.8													
Vehicle Noise		61.3	56.5	59.2	51.7	60.2	60.7													
Centerline Distance to Noise Contour (in feet)																				
		70 dBA	65 dBA	60 dBA	55 dBA															
Ldn		22	48	104	273															
CNEL		24	51	111	298															

Friday, November 08, 2013

Scenario: Year 2018 Without Project				Project Name: Marano Valley Plzment					
Road Name: Kitching Street				Job Number: 9870					
Road Segment: North of In's Avenue									
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (adt):		7,405 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15			
Peak Hour Volume:		741 vehicles		Heavy Trucks (3+ Axles):		15			
Vehicle Speed:		55 mph							
Near/Far Lane Distance:		36 feet							
Site Data				Vehicle Mix					
Barrier Height:		0.0 feet		VehicleType		Day	Evening	Night	Daily
Barrier Type (0=W, 1=BSF)		0.0		Autos:		77.5%	12.8%	9.5%	97.42%
Centerline Dist to Barrier:		100.0 feet		Medium Trucks:		94.8%	4.5%	10.3%	1.94%
Centerline Dist to Observer:		100.0 feet		Heavy Trucks:		96.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet							
Observer Height (Above Pk):		5.0 feet							
Road Elevation:		0.0 feet		Noise Source Elevations (in feet)					
Road Grade:		0.0%		Autos:		0.000			
Left View:		-80.0 degrees		Medium Trucks:		2.297			
Right View:		80.0 degrees		Heavy Trucks:		9.006 Grade Adjustment: 0.0			
				Lane Equivalence Distances (in feet)					
				Autos:		98.454			
				Medium Trucks:		86.404			
				Heavy Trucks:		98.413			
FINRA Noise Abolol Calculations									
VehicleType	REXEL	Traffic Flow	Distance	Point Road	Freeser	Barrier After	Barrier After	Barrier After	
Autos	71.76	-4.13	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-21.37	-4.51	-1.20	-4.68	0.000	0.000	0.000	
Heavy Trucks	90.40	-25.32	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unimproved Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL			
Autos	61.9	50.0	58.3	52.2	60.8	61.4			
Medium Trucks	55.3	53.8	47.6	45.8	54.4	54.6			
Heavy Trucks	55.4	53.9	44.9	46.2	54.5	54.6			
Vehicle Noise:	63.5	61.9	55.9	53.6	62.5	63.0			
Centerline Distances to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln	32	86	145	216					
CNEL	34	73	157	329					

Friday, November 09, 2018

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Kitching Street					Job Number: 3870				
Road Segment: South of Iris Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,231 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 923 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.287				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 38.494				
Left View: -60.0 degrees					Medium Trucks: 88.404				
Right View: 60.0 degrees					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	68.49	-2.36	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	78.45	-16.54	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-23.48	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	89.4	58.6	56.8	56.7	58.3	66.0			
Medium Trucks	54.2	52.7	48.3	44.6	53.2	53.5			
Heavy Trucks	55.0	53.6	44.6	45.8	54.2	54.3			
Vehicle Noise	62.3	60.5	57.4	52.7	61.3	61.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	26	96	121	261					
CNEL	28	90	130	260					

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Friday, November 08, 2013

Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Lassalle Street					Job Number: 8870				
Road Segment: North of Iris Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,313 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,037 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 86.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.37	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.87	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-20.93	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.3	64.4	62.7	56.6	66.2	66.9			
Medium Trucks	58.7	58.2	51.9	50.3	58.8	59.0			
Heavy Trucks	58.6	56.3	46.3	50.5	58.8	59.0			
Vehicle Noise	67.9	66.1	63.2	58.3	68.9	67.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	82	132	387	819					
CNEL	87	143	309	686					

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Scenario: Year 2018 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Lassalle Street					Job Number: 8870				
Road Segment: South of Iris Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 26,129 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,613 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.5% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distances (in feet)				
Road Elevation: 0.0 feet					Autos: 38.494				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Abol Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.67	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.57	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-18.53	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.7	55.8	54.1	58.0	68.6	67.2			
Medium Trucks	61.1	59.5	53.3	51.7	60.2	60.4			
Heavy Trucks	61.2	59.7	50.7	51.9	60.3	60.4			
Vehicle Noise	69.3	67.5	64.6	59.7	69.3	66.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	77	165	355	767					
CNEL	83	179	383	825					

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Scenario: Year 2018 With Project					Project Name: Moreno Valley Valmart				
Road Name: Sunnymead Boulevard					Job Number: 3870				
Flow Segment: Purvis Boulevard to SR-60 EB On-Ramp									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data									
Average Daily Traffic (Adt):		21,344 vehicles							
Peak Hour Percentage:		10%							
Peak Hour Volume:		2,144 vehicles							
Vehicle Speed:		55 mph							
Near/Far Lane Distance:		36 feet							
Site Data									
Barrier Height:		0.0 feet							
Barrier Type (0=Wall, 1=Berml):		0.0							
Centerline Dist. to Barrier:		100.0 feet							
Centerline Dist. to Observer:		100.0 feet							
Barrier Distance to Observer:		0.0 feet							
Observer Height (Above Road):		5.0 feet							
Pad Elevation:		0.0 feet							
Road Elevation:		0.0 feet							
Road Grade:		0.0%							
Left View:		-60.0 degrees							
Right View:		80.0 degrees							
Site Conditions (Hard = 0, Soft = 1)									
Autos:		15							
Medium Trucks (2 Axes):		15							
Heavy Trucks (3+ Axes):		15							
Vehicle Mix									
Vehicle Type:		Day	Evening	Night	Day	Evening	Night	Day	Evening
Autos:		77.5%	12.8%	9.6%	9.6%	97.42%			
Medium Trucks:		94.8%	4.9%	10.3%	1.94%				
Heavy Trucks:		88.5%	2.7%	10.8%	0.74%				
Noise Source Elevations (in feet)									
Autos:		0.000							
Medium Trucks:		2.287							
Heavy Trucks:		8.008		Grade Adjustment: 0.0					
Lane Equivalent Distances (in feet)									
Autos:		98.494							
Medium Trucks:		98.404							
Heavy Trucks:		99.413							
FHWA Noise Model Calculations									
Vehicle Type	REMEI	Traffic Flow	Distance	Finite Road	Freeze	Barrier Att'n	Berm Att'n		
Autos	71.78	6.45	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.75	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	96.40	-20.70	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	89.9	64.7	62.9	56.6	66.5	66.1			
Medium Trucks	59.9	58.4	52.1	50.5	58.0	58.2			
Heavy Trucks	60.0	59.6	48.5	50.8	58.1	59.9			
Vehicle Noise:	68.1	65.4	63.4	58.5	67.1	67.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn:	64	158	287	480					
CNEL:	69	143	326	468					

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Scenario: Year 2018 With Project Road Name: Cottonwood Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 9,198 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 920 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.287				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 39.403				
Left View: -60.0 degrees					Medium Trucks: 80.314				
Right View: 60.0 degrees					Heavy Trucks: 89.923				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	69.48	-2.31	-4.88	-1.20	-4.77	0.000	0.000	9.000	
Medium Trucks	79.45	-18.56	-4.57	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	84.25	-23.51	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	89.4	58.6	55.7	55.6	58.3	58.9			
Medium Trucks	54.1	52.8	48.3	44.7	53.2	53.4			
Heavy Trucks	55.0	53.5	44.5	45.0	54.1	54.2			
Vehicle Noise	62.2	60.5	57.0	52.6	61.2	61.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	26	96	120	258					
CNCEL	28	90	128	277					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project					Project Name: Moreno Valley Walmart				
Road Name: Cottonwood Avenue					Job Number: 8870				
Road Segment: West of Peris Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 9,198 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 916 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph									
Near/Far Lane Distance: 24 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos:	77.5%	12.9%	6.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet					Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.0 feet					Autos:	0.000			
Pad Elevation: 0.0 feet					Medium Trucks:	2.287			
Road Elevation: 0.0 feet					Heavy Trucks:	8.006 Grade Adjustment: 0.0			
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos:	39.403			
Right View: 90.0 degrees					Medium Trucks:	80.314			
					Heavy Trucks:	89.323			
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	69.48	-2.32	-4.88	-1.20	-4.77	0.000	0.000		
Medium Trucks	79.45	-18.56	-4.57	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-23.51	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	60.4	58.6	56.7	50.6	58.3	58.9			
Medium Trucks	54.1	52.8	46.2	44.7	53.2	53.4			
Heavy Trucks	55.0	53.5	44.5	45.8	54.1	54.2			
Vehicle Noise	62.2	60.5	57.3	52.6	61.2	61.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	26	58	120	258					
CNCEL	28	60	128	277					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project Road Name: Cottonwood Avenue Road Segment: East of Peris Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870					
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (adt):		9,620 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15			
Peak Hour Volume:		682 vehicles		Heavy Trucks (3+ Axles):		15			
Vehicle Speed:		40 mph		Vehicle Mix					
Near/Far Lane Distance:		12 feet		Vehicle Type		Day	Evening	Night	Daily
Site Data				Autos:		77.5%	12.9%	8.0%	87.42%
Barrier Height:		0.0 feet		Medium Trucks:		84.8%	4.8%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm):		0.0		Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier:		100.0 feet		Noise Source Elevations (in feet)					
Centerline Dist. to Observer:		100.0 feet		Autos:		0.000			
Barrier Distance to Observer:		0.0 feet		Medium Trucks:		2.287		Grade Adjustment: 0.0	
Observer Height (above Pad):		5.0 feet		Heavy Trucks:		8.006			
Pad Elevation:		0.0 feet		Lane Equivalent Distances (in feet)					
Road Elevation:		0.0 feet		Autos:		95.945			
Road Grade:		0.0%		Medium Trucks:		95.359			
Left View:		-90.0 degrees		Heavy Trucks:		95.955			
Right View:		90.0 degrees							
FHWA Noise Abol Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	-1.81	-4.83	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-18.85	-4.41	-1.20	-4.85	0.000	0.000		
Heavy Trucks	82.88	-22.60	-4.81	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	58.1	57.2	55.4	48.4	58.0	58.8			
Medium Trucks	53.1	51.5	46.2	43.9	52.1	52.2			
Heavy Trucks	54.4	53.0	43.9	45.2	53.5	53.7			
Vehicle Noise	61.1	59.4	56.1	51.5	60.1	60.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	22	47	101	218					
CNCEL	23	50	108	239					

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Friday, November 08, 2013

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Scenario: Year 2018 With Project Road Name: Alessandro Boulevard Road Segment: East of Indian Street					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 27,152 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,715 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 95 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 37.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -60.0 degrees					Heavy Trucks: 87.224				
Right View: 60.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.52	-2.74	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-15.72	-3.73	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-19.66	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.4	65.6	64.7	55.6	67.3	67.9	67.9		
Medium Trucks	61.8	60.2	59.8	52.3	60.8	61.0	61.0		
Heavy Trucks	61.8	60.4	61.3	52.6	60.9	61.1	61.1		
Vehicle Noise	68.8	68.2	65.2	60.4	68.9	69.4	69.4		
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	95	162	382	845					
CNEL	91	159	422	908					

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Scenario: Year 2016 With Project Road Name: Alessandro Boulevard Road Segment: West of Pems Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 28,462 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,846 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet									
Site Data					Vehicle Type				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 87.319				
					Medium Trucks: 67.214				
					Heavy Trucks: 67.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.40	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.93	-3.73	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-19.79	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.7	66.4	64.6	58.5	67.2	67.9			
Medium Trucks	61.6	60.1	59.8	52.2	60.7	60.9			
Heavy Trucks	61.7	60.3	61.2	52.5	60.8	61.0			
Vehicle Noise	66.8	66.1	65.1	60.2	68.8	69.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	93	178	388	831					
CNEL	88	193	415	894					

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Scenario: Year 2018 With Project Road Name: Alessandro Boulevard Road Segment: East of Pems Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 22,577 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,258 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph				Vehicle Mix				
Near/Far Lane Distance: 38 feet				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%				
Barrier Height: 0.0 feet				Medium Trucks: 94.8% 4.8% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000				
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet				Lane Equivalent Distances (in feet)				
Road Grade: 0.0%				Autos: 36.454				
Left View: -90.0 degrees				Medium Trucks: 86.404				
Right View: 90.0 degrees				Heavy Trucks: 96.413				
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.78	0.71	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-18.52	-4.51	-1.20	-4.85	0.000	0.000	0.000
Heavy Trucks	86.40	-20.48	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	68.8	64.8	63.1	57.1	65.7	66.3		
Medium Trucks	60.2	58.7	52.3	50.9	59.2	59.4		
Heavy Trucks	60.2	59.0	49.7	51.0	59.3	59.5		
Vehicle Noise	68.4	69.6	63.6	52.6	67.3	67.6		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	86	143	307	682				
CNEL	71	154	331	713				

Friday, November 08, 2013

Friday, November 08, 2013

Highway 175 - West of Indian Street (175 NB Flips)			
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Scenario: Year 2018 With Project Road Name: Cactus Avenue Road Segment: West of Elsworth Street				Project Name: Moreno Valley Walmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 57,865 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15			
Peak Hour Volume: 5,765 vehicles				Heavy Trucks (3+ Axes): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 89.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	4.76	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-12.46	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-16.41	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	70.9	68.8	67.2	61.1	68.7	76.4	
Medium Trucks	84.2	82.7	80.4	64.8	83.3	84.1	
Heavy Trucks	84.3	82.8	80.3	65.0	83.4	83.5	
Vehicle Noise	72.4	70.7	67.7	62.0	71.4	71.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	124	268	574	1,297			
CNCEL	133	267	616	1,331			

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Scenario: Year 2018 With Project Road Name: Cactus Avenue Road Segment: East of Elsworth Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 53,500 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,350 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 87.315				
					Medium Trucks: 87.214				
					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.46	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.78	-3.73	-1.20	-4.59	0.000	0.000		
Heavy Trucks	86.40	-16.73	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.3	68.4	67.6	61.6	70.2	70.8			
Medium Trucks	84.7	83.2	80.8	65.3	83.7	84.0			
Heavy Trucks	84.7	83.3	80.3	65.5	83.8	84.0			
Vehicle Noise	72.9	71.1	68.2	63.3	71.8	72.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	133	286	616	1,328					
CNCEL	143	296	663	1,428					

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Scenario: Year 2018 With Project Road Name: Cactus Avenue Road Segment: West of Frederick Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 55,100 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 5,510 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 98 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.8% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distances (in feet)			
Road Elevation: 0.0 feet				Autos: 87.316			
Road Grade: 0.0%				Medium Trucks: 87.214			
Left View: -90.0 degrees				Heavy Trucks: 87.224			
Right View: 90.0 degrees							
FHWA Noise Abol Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	4.98	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-12.65	-3.73	-1.20	-4.65	0.000	0.000
Heavy Trucks	86.40	-16.61	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	71.4	69.5	67.8	61.7	70.3	70.8	
Medium Trucks	84.8	83.3	81.0	65.4	83.8	84.1	
Heavy Trucks	84.9	83.4	80.4	65.7	84.0	84.1	
Vehicle Noise	73.0	71.3	68.3	63.4	72.6	72.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	135	292	628	1,355			
CNCEL	146	314	678	1,457			

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Friday, November 08, 2013

Scenario: Year 2018 With Project Road Name: Cactus Avenue Road Segment: West of Heacock Street				Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 38,965 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,965 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 88.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet) Autos: 37.316 Medium Trucks: 87.214 Heavy Trucks: 97.224				
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	3.97	-2.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-14.17	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks	88.40	-18.12	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	69.8	68.0	66.2	65.2	68.8	66.4		
Medium Trucks	63.3	61.8	59.4	58.9	62.4	62.6		
Heavy Trucks	63.3	61.8	59.9	59.4	62.5	62.6		
Vehicle Noise	71.5	69.7	66.8	61.9	70.5	70.9		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	107	231	486	1,073				
CNELL	115	248	535	1,154				

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Scenario: Year 2016 With Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: East of Heacock Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 28,895 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,861 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 6.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 88.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 89.484				
					Medium Trucks: 66.404				
					Heavy Trucks: 98.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.74	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.50	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-19.46	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.8	65.9	64.1	58.1	66.7	87.3			
Medium Trucks	61.2	58.7	57.3	51.8	59.2	80.5			
Heavy Trucks	61.2	58.9	56.9	52.0	59.4	80.5			
Vehicle Noise	66.4	67.9	64.7	59.8	68.3	80.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	78	167	360	776					
CNELL	83	180	387	834					

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Scenario: Year 2018 With Project Road Name: Cactus Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 25,728 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,573 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
				Vehicle Type	Day	Evening	Night
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
FHWA Noise Abol Calculations				Lane Equivalent Distances (in feet)			
				Autos: 36.464 Medium Trucks: 86.404 Heavy Trucks: 96.413			
FHWA Noise Abol Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	1.28	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.90	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	88.40	-19.81	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.3	65.4	63.7	62.8	66.2	66.8	
Medium Trucks	60.7	59.2	57.8	57.3	59.6	60.0	
Heavy Trucks	60.8	59.3	57.8	57.6	59.6	60.6	
Vehicle Noise	68.3	67.2	64.2	59.3	67.6	68.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	72	156	335	723			
CNELL	78	167	351	777			
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Scenario: Year 2018 With Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 3870				
Road Segment: East of Indian Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (Adt): 23,768 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 2,377 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 88.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet									
Centerline Dist. to Observer: 100.0 feet									
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%					Grade Adjustment: 0.0				
Left View: -90.0 degrees									
Right View: 90.0 degrees									
					Noise Source Elevations (in feet)				
					Autos: 0.000				
					Medium Trucks: 2.287				
					Heavy Trucks: 8.006				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494				
					Medium Trucks: 88.404				
					Heavy Trucks: 98.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.94	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.30	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-20.26	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.0	65.1	63.3	62.3	66.9	66.5			
Medium Trucks	60.4	58.8	57.5	56.5	59.4	59.7			
Heavy Trucks	60.4	59.0	57.5	56.5	59.6	59.7			
Vehicle Noise:	66.8	66.8	63.8	58.0	67.5	69.0			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 68 148 316 668									
CNEL: 74 158 342 737									

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Scenario: Year 2018 With Project Road Name: Carbus Avenue Road Segment: East of Klasing Street				Project Name: Moreno Valley Vamant Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 15,517 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15			
Peak Hour Volume: 1,552 vehicles				Heavy Trucks (3+ Axes): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 89.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-2.91	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.15	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-22.11	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.1	63.2	61.5	55.4	64.0	64.7	
Medium Trucks	58.5	57.0	50.7	49.1	57.8	57.8	
Heavy Trucks	58.6	57.2	48.1	48.4	57.7	57.9	
Vehicle Noise	66.7	65.0	62.0	57.1	65.7	66.2	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	52	111	235	516			
CNCEL	55	120	258	555			

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Scenario: Year 2018 With Project Road Name: John F. Kennedy Drive Road Segment: West of Heacock Street					Project Name: Moreno Valley Walmart Job Number: 8370				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 9,516 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 951 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-3.94	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-20.28	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-24.23	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	63.0	61.1	58.4	53.3	61.8	62.5			
Medium Trucks	56.4	54.9	48.5	47.0	55.5	55.7			
Heavy Trucks	56.4	55.0	46.0	47.2	55.5	55.7			
Vehicle Noise	64.6	62.0	58.9	55.0	63.6	64.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	37	80	173	972					
CNCEL	40	85	188	400					

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Scenario: Year 2018 With Project Road Name: John F. Kennedy Drive Road Segment: East of Heacock Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 11,185 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,118 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berry): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distances (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 86.404			
Left View: -90.0 degrees				Heavy Trucks: 86.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-2.94	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-18.57	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-23.53	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	63.7	61.8	60.1	54.0	62.6	63.2	
Medium Trucks	57.1	55.6	49.2	47.7	56.2	56.4	
Heavy Trucks	57.2	55.7	46.7	47.9	56.3	56.4	
Vehicle Noise	65.3	63.5	60.6	55.7	64.3	64.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	41	88	193	415			
CNCEL	45	98	207	448			

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Scenario: Year 2018 With Project				Project Name: Murreno Valley Hammar					
Road Name: John F. Kennedy Drive				Job Number: 3870					
Road Segment: West of Indian Street									
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (Adt)		11,022 vehicles		Autos:		15			
Peak Hour Percentage		10%		Medium Trucks (2 Axes):		15			
Peak Hour Volume		1,162 vehicles		Heavy Trucks (3+ Axes):		15			
Vehicle Speed		55 mph							
Near/Far Lane Distance		36 feet							
Site Data				Vehicle Mix					
Barrier Height:		0.0 feet		Vehicle Type:		Day	Evening	Night	Daily
Barrier Type (0=Wall, 1=Barrier)		0.0		Autos:		77.5%	12.8%	9.6%	57.42%
Centerline Dist. to Barrier		100.0 feet		Medium Trucks:		94.8%	4.9%	10.3%	1.94%
Centerline Dist. to Observer		100.0 feet		Heavy Trucks:		88.5%	2.7%	10.8%	0.74%
Barrier Distance to Channel		0.0 feet							
Observer Height (Above Road)		5.0 feet							
Road Elevation:		0.0 feet		Noise Source Elevations (in feet)					
Road Grade:		0.0%		Autos:		0.000			
Left View:		-60.0 degrees		Medium Trucks:		2.287			
Right View:		80.0 degrees		Heavy Trucks:		8.008		Grade Adjustment: 0.0	
FHWA Noise Model Calculations				Lane Equivalent Distances (in feet)					
Vehicle Type		REWEI	Traffic Flow	Distance	Finite Road	Freezeit	Barrier Att'n	Barrier Att'n	
Autos:		71.78	-2.46	-4.52	-1.20	-4.77	0.000	0.000	
Medium Trucks:		82.40	-16.94	-4.51	-1.20	-4.80	0.000	0.000	
Heavy Trucks:		96.40	-23.59	-4.61	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type		Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos:		83.7	61.6	60.6	55.6	64.8	63.7		
Medium Trucks:		57.1	55.5	49.2	47.8	58.1	56.3		
Heavy Trucks:		57.1	55.7	45.6	47.8	56.2	56.0		
Vehicle Noise:		65.2	63.5	60.5	55.5	64.2	64.1		
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Left:		41	88	151	411				
CNEL:		44	95	165	442				
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Scenario: Year 2018 With Project Road Name: John F. Kennedy Drive Road Segment: East of Pente Boulevard				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 12,061 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,308 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 89.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	-71.76	-1.98	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.90	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-22.86	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	84.4	62.6	60.7	54.7	63.3	63.9	
Medium Trucks	57.8	58.3	49.9	48.4	56.8	57.1	
Heavy Trucks	57.8	55.4	47.4	48.6	57.0	57.1	
Vehicle Noise	66.0	64.2	61.3	56.4	64.9	65.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	46	98	213	460			
CNCEL	49	107	230	495			

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Scenario: Year 2018 With Project Road Name: John F. Kennedy Drive Road Segment: West of Kitching Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,058 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,206 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.01	-4.52	-1.20	-4.77	0.006	0.000	0.000	
Medium Trucks	62.40	-19.25	-4.51	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	66.40	-23.20	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	64.1	62.2	60.4	54.3	63.0	83.3			
Medium Trucks	57.4	55.9	48.8	48.0	56.5	56.6			
Heavy Trucks	57.5	56.1	47.0	48.3	56.8	56.8			
Vehicle Noise	55.6	53.9	50.9	50.0	54.5	55.1			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	44	54	81	436					
CNEL	47	101	218	469					

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Scenario: Year 2018 With Project Road Name: John F. Kennedy Drive Road Segment: East of Kitching Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt):		8,488 vehicles		Autos:		15	
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15	
Peak Hour Volume:		650 vehicles		Heavy Trucks (3+ Axles):		15	
Vehicle Speed:		55 mph		Vehicle Mix			
Near/Far Lane Distance:		36 feet					
Site Data				Vehicle Type			
Barrier Height:		0.0 feet		Autos:		77.5% 12.9% 8.0% 87.42%	
Barrier Type (0-Wall, 1-Ber):		0.0		Medium Trucks:		84.8% 4.9% 10.3% 1.84%	
Centerline Dist. to Barrier:		100.0 feet		Heavy Trucks:		86.5% 2.7% 10.8% 0.74%	
Centerline Dist. to Observer:		100.0 feet		Noise Source Elevations (in feet)			
Barrier Distance to Observer:		0.0 feet					
Observer Height (above Pad):		5.0 feet		Autos:		0.000	
Pad Elevation:		0.0 feet		Medium Trucks:		2.287	
Road Elevation:		0.0 feet		Heavy Trucks:		8.006 Grade Adjustment: 0.0	
Road Grade:		0.0%		Lane Equivalent Distances (in feet)			
Left View:		-90.0 degrees					
Right View:		90.0 degrees		Autos:		38.454	
				Medium Trucks:		86.404	
				Heavy Trucks:		86.413	
FHWA Noise Abol Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	-71.76	-1.98	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-20.77	-4.51	-1.20	-4.85	0.000	0.000
Heavy Trucks	86.40	-24.72	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	62.5	50.8	48.9	57.8	61.4	67.0	
Medium Trucks	55.9	54.4	48.1	45.5	55.0	55.2	
Heavy Trucks	59.0	54.5	45.5	45.0	55.1	55.2	
Vehicle Noise	64.1	62.3	59.4	54.5	63.1	63.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	35	74	180	345			
CNCEL	37	80	172	371			
Friday, November 08, 2013							

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Scenario: Year 2018 With Project Road Name: Iris Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870					
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT):		11,168 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axes):		15			
Peak Hour Volume:		1,118 vehicles		Heavy Trucks (3+ Axes):		15			
Vehicle Speed:		40 mph		Vehicle Mix					
Near/Far Lane Distance:		12 feet		Vehicle/Type		Day	Evening	Night	Daily
Site Data				Autos:		77.5%	12.9%	8.6%	87.42%
Barrier Type (0-Wall, 1-Berm):		0.0 feet		Medium Trucks:		84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm):		0.0		Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier:		100.0 feet		Noise Source Elevations (in feet)					
Centerline Dist. to Observer:		100.0 feet		Autos:		0.000			
Barrier Distance to Observer:		0.0 feet		Medium Trucks:		2.287			
Observer Height (Above Pad):		5.0 feet		Heavy Trucks:		8.006		Grade Adjustment: 0.0	
Pad Elevation:		0.0 feet		Lane Equivalent Distance (in feet)					
Road Elevation:		0.0 feet		Autos:		39.945			
Road Grade:		0.0%		Medium Trucks:		89.856			
Left View:		-60.0 degrees		Heavy Trucks:		89.885			
Right View:		60.0 degrees							
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	68.51	-0.95	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-16.16	-4.61	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.98	-22.15	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	59.7	57.8	59.1	55.0	58.8	58.3			
Medium Trucks	53.7	52.2	49.8	44.3	52.8	53.0			
Heavy Trucks	55.0	53.6	44.6	45.8	54.2	54.3			
Vehicle Noise	61.8	60.0	56.7	52.2	60.7	61.2			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ldn:		24	52	112	241				
CNSEL:		26	56	120	256				

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Scenario: Year 2018 With Project Road Name: Iris Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 14,312 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,437 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.494				
Road Grade: 0.0%					Medium Trucks: 66.404				
Left View: -90.0 degrees					Heavy Trucks: 89.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-1.25	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.49	-4.61	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-22.44	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	64.8	62.9	61.1	55.1	63.7	64.3			
Medium Trucks	58.2	56.7	50.3	49.8	57.3	57.5			
Heavy Trucks	58.2	56.8	47.8	49.0	57.4	57.5			
Vehicle Noise	66.4	64.8	61.7	58.8	65.4	65.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	49	106	228	480					
CNSEL	53	114	245	527					

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Scenario: Year 2018 With Project Road Name: Iris Avenue Road Segment: West of Perris Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870					
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (adt):		14,570 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15			
Peak Hour Volume:		1,497 vehicles		Heavy Trucks (3+ Axles):		15			
Vehicle Speed:		55 mph		Vehicle Mix					
Near/Far Lane Distance:		36 feet		VehicleType		Day	Evening	Night	Daily
Site Data				Autos:		77.5%	12.9%	8.0%	87.42%
Barrier Height:		0.0 feet		Medium Trucks:		94.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berry):		0.0		Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier:		100.0 feet		Noise Source Elevations (in feet)					
Centerline Dist. to Observer:		100.0 feet		Autos:		0.000			
Barrier Distance to Observer:		0.0 feet		Medium Trucks:		2.287			
Observer Height (above Pad):		5.0 feet		Heavy Trucks:		8.006		Grade Adjustment: 0.0	
Road Elevation:		0.0 feet		Lane Equivalent Distances (in feet)					
Road Grade:		0.0%		Autos:		39.454			
Left View:		-90.0 degrees		Medium Trucks:		86.404			
Right View:		90.0 degrees		Heavy Trucks:		86.413			
FHWA Noise Abol Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-1.07	-4.62	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-18.31	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	88.40	-22.28	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.0	63.1	61.3	55.3	63.8	64.5			
Medium Trucks	58.4	56.8	50.5	49.0	57.4	57.7			
Heavy Trucks	58.4	57.0	48.0	49.2	57.6	57.7			
Vehicle Noise	66.6	64.9	61.9	57.0	65.5	66.0			
Centerline Distance to Noise Contour (in feet)									
		70 dBA		65 dBA		60 dBA		55 dBA	
Ldn		80		108		224		504	
CNEL		54		117		252		542	

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Highway 101 - West of Harris Boulevard - Noise
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Highway 101 - Moreno Valley Valtmart									
Scenario: Year 2018 With Project Road Name: Iris Avenue Road Segment: West of Lasselle Street					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,757 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,078 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos	77.5%	12.9%	8.9%	87.42%
Barrier Height: 0.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos	0.000			
Barrier Distance to Observer: 0.0 feet					Medium Trucks	2.287			
Observer Height (Above Pad): 5.0 feet					Heavy Trucks	8.006	Grade Adjustment: 0.0		
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos	87.316			
Road Grade: 0.0%					Medium Trucks	87.214			
Left View: -90.0 degrees					Heavy Trucks	87.224			
Right View: 90.0 degrees					FHWA Noise Model Calculations				
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.38	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.98	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.85	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	67.2	65.3	63.6	57.6	66.1	66.7			
Medium Trucks	69.8	59.1	52.7	51.2	59.8	59.9			
Heavy Trucks	60.6	59.2	50.2	51.4	58.9	58.9			
Vehicle Noise	68.8	67.0	64.1	58.2	67.7	69.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	71	152	326	767					
CNSEL	76	184	353	780					

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Highway 101 - Moreno Valley Valtmart									
Scenario: Year 2018 With Project Road Name: Iris Avenue Road Segment: East of Lasselle Street					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 23,983 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,398 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos	77.5%	12.9%	8.9%	87.42%
Barrier Height: 0.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos	0.000			
Barrier Distance to Observer: 0.0 feet					Medium Trucks	2.287			
Observer Height (Above Pad): 5.0 feet					Heavy Trucks	8.006	Grade Adjustment: 0.0		
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos	87.219			
Road Grade: 0.0%					Medium Trucks	87.214			
Left View: -90.0 degrees					Heavy Trucks	87.224			
Right View: 90.0 degrees					FHWA Noise Model Calculations				
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.38	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.92	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.27	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	67.8	65.9	64.1	58.0	66.7	67.3			
Medium Trucks	61.2	58.7	53.3	51.7	59.2	59.4			
Heavy Trucks	61.2	56.8	50.7	52.0	60.3	60.5			
Vehicle Noise	66.3	67.9	64.8	59.8	68.3	68.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	77	166	358	771					
CNSEL	83	179	365	830					

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Highway 101 - Moreno Valley Valtmart									
Scenario: Year 2018 With Project Road Name: Kramena Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 3,502 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 250 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos	77.5%	12.9%	8.9%	87.42%
Barrier Height: 0.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos	0.000			
Barrier Distance to Observer: 0.0 feet					Medium Trucks	2.287			
Observer Height (above Pad): 5.0 feet					Heavy Trucks	8.006	Grade Adjustment: 0.0		
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos	86.403			
Road Grade: 0.0%					Medium Trucks	86.314			
Left View: -90.0 degrees					Heavy Trucks	86.323			
Right View: 90.0 degrees					FHWA Noise Model Calculations				
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	88.46	1.28	-4.58	-1.20	-4.77	0.000	0.000		
Medium Trucks	76.46	-23.75	-4.57	-1.20	-4.85	0.000	0.000		
Heavy Trucks	84.25	-27.70	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	58.2	54.3	52.5	48.5	55.1	55.7			
Medium Trucks	49.8	48.4	42.1	40.5	48.0	49.2			
Heavy Trucks	50.8	49.4	40.3	41.6	49.6	50.0			
Vehicle Noise	58.0	59.3	53.1	49.4	57.0	57.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	14	28	63	138					
CNSEL	15	31	67	145					

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Scenario: Year 2018 With Project					Project Name: Moreno Valley Valtmart				
Road Name: Kramena Avenue					Job Number: 8870				
Road Segment: West of Ferns Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 4,319 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 458 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph									
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos	77.5%	12.9%	8.6%	87.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet									
Pad Elevation: 0.0 feet					Noise Source Elevations (in feet)				
Road Elevation: 0.6 feet					Autos	0.000			
Road Grade: 0.0%					Medium Trucks	2.287			
Left View: -50.0 degrees					Heavy Trucks	8.006	Grade Adjustment: 0.0		
Right View: 80.0 degrees									
FHWA Noise Roadway Calculations					Lane Equivalent Distance (in feet)				
Vehicle Type	REWEI	Traffic Flow	Distance	Profile Road	Freeze	Banner Adm	Berm Adm	Berm Adm	
Autos	98.51	-4.92	-4.62	-1.20	-2.77	0.000	0.000	0.000	
Medium Trucks	77.72	-22.07	-4.61	-1.20	-4.86	0.000	0.000	0.000	
Heavy Trucks	82.98	-28.03	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	55.9	54.0	52.2	46.1	54.8	65.2			
Medium Trucks	49.8	48.3	47.0	40.4	48.9	48.9			
Heavy Trucks	51.2	49.7	49.7	41.8	50.3	50.3			
Vehicle Noise	57.8	55.1	52.8	48.3	56.9	57.3			
Centerline Distances to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln	13	29	62	123					
CNEL	14	31	56	142					
Friday, November 08, 2013									

Scenario: Year 2018 With Project Road Name: Harley Knox Boulevard Road Segment: East of Webster Avenue					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 33,961 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,395 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.403				
Road Grade: 0.0%					Medium Trucks: 89.314				
Left View: -60.0 degrees					Heavy Trucks: 89.323				
Right View: 60.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	88.48	3,330	-4.88	-1.20	-4.77	0.000	0.000		
Medium Trucks	78.45	-13.94	-4.57	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-17.86	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.0	64.1	62.3	56.3	64.9	65.5			
Medium Trucks	59.7	58.2	51.9	50.3	58.8	59.0			
Heavy Trucks	60.6	59.2	50.1	51.4	58.7	58.9			
Vehicle Noise	67.8	65.1	62.8	58.2	66.0	67.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	61	132	284	611					
CNELL	58	141	304	655					

Friday, November 6, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project Road Name: Harley Knox Boulevard Road Segment: West of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 31,818 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,186 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 86.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	2.19	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.05	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-19.01	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.7	66.3	64.6	58.5	67.1	67.9			
Medium Trucks	61.6	60.1	53.8	52.2	60.7	60.9			
Heavy Trucks	61.7	60.3	51.2	52.5	60.8	60.8			
Vehicle Noise	66.0	66.1	65.1	60.2	68.8	69.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	83	178	385	830					
CNELL	88	192	415	893					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project Road Name: Harley Knox Boulevard Road Segment: East of Indian Street					Project Name: Moreno Valley Wal-Mart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 13,274 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,327 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 36.464				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1,327	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.83	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-22.79	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	64.5	62.8	60.8	54.7	63.4	64.0			
Medium Trucks	57.9	56.4	50.0	48.4	56.9	57.1			
Heavy Trucks	57.9	56.5	47.4	49.7	57.0	57.2			
Vehicle Noise	69.0	64.3	61.3	56.5	65.0	65.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	46	100	216	486					
CNELL	50	109	232	500					

Friday, November 08, 2013

Friday, November 08, 2013

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Scenario: Year 2018 With Project Road Name: Frederick Street Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 11,705 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,170 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-2.14	-4.52	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-18.38	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	88.40	-23.35	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	83.9	62.0	60.3	54.2	62.8	63.4			
Medium Trucks	57.3	55.8	49.4	47.5	56.4	56.8			
Heavy Trucks	57.3	55.8	46.8	48.1	56.5	56.6			
Vehicle Noise	65.5	63.7	60.8	55.9	64.5	64.9			
Centerline Distance to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn					43	92	186	427	
CNEL					46	99	213	480	

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project					Project Name: Moreno Valley Walmart				
Road Name: Heacock Street					Job Number: 8870				
Road Segment: North of Alessandro Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 17,220 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,722 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Autos: 77.5% 12.9% 8.6% 87.42%									
Medium Trucks: 84.8% 4.9% 10.3% 1.84%									
Heavy Trucks: 86.5% 2.7% 10.8% 0.74%									
Site Data					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet					Autos: 0.000				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 2.287				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Centerline Dist. to Observer: 100.0 feet									
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%									
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type REAMEL Traffic Flow Distance Finite Road Fresnel Barrier Att'n Berm Att'n									
Autos 71.78 -2.14 -4.52 -1.20 -4.77 0.000 0.000									
Medium Trucks 82.40 -17.70 -4.51 -1.20 -4.89 0.000 0.000									
Heavy Trucks 88.40 -21.86 -4.51 -1.20 -5.16 0.000 0.000									
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL									
Autos 65.6 63.7 61.8 55.9 64.5 65.1									
Medium Trucks 58.0 57.5 51.1 49.8 58.0 58.3									
Heavy Trucks 58.0 57.8 48.8 49.8 58.2 58.3									
Vehicle Noise 67.2 65.4 62.5 57.5 68.1 68.6									
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn 58 126 276 595									
CNEL 58 126 276 595									

Friday, November 08, 2013

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Scenario: Year 2018 With Project Road Name: Heacock Street Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 12,857 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,286 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-BerM): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Lane Equivalent Distances (in feet)				
					Autos: 98.494 Medium Trucks: 96.404 Heavy Trucks: 96.413				
FHWA Noise Abol Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-1.80	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-18.04	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	88.40	-22.89	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	64.3	62.4	60.8	54.5	63.2	63.8			
Medium Trucks	57.7	56.1	49.8	48.2	56.7	56.9			
Heavy Trucks	57.7	56.3	47.2	48.5	56.6	57.0			
Vehicle Noise	65.0	64.1	61.1	56.3	64.6	65.3			
Centerline Distance to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn					45	97	208	450	
CNEL					48	104	225	485	

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project					Project Name: Moreno Valley Valmart				
Road Name: Indian Street					Job Number: 3870				
Road Segment: North of Cottonwood Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 8,943 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 864 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 40 mph									
Near/Far Lane Distance: 12 feet									
					Vehicle Mix				
					Vehicle Type: Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet									
Centerline Dist. to Observer: 100.0 feet									
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet									
Pad Elevation: 0.0 feet									
Road Elevation: 0.0 feet									
Road Grade: 0.0%					Grade Adjustment: 0.0				
Left View: -90.0 degrees									
Right View: 90.0 degrees									
					Noise Source Elevations (in feet)				
					Autos: 0.000				
					Medium Trucks: 2.287				
					Heavy Trucks: 8.008				
					Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 93.945				
					Medium Trucks: 98.956				
					Heavy Trucks: 99.865				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	68.51	-1.97	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-18.21	-4.61	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.98	-23.17	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	58.7	56.6	55.1	48.0	57.8	58.2			
Medium Trucks	52.7	51.2	44.8	43.3	51.7	52.0			
Heavy Trucks	54.0	52.6	43.6	44.8	53.2	53.3			
Vehicle Noise:	60.7	59.0	55.7	51.2	58.7	60.2			
Centerline Distance to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn:					21	44	96	208	
CNEL:					22	49	102	221	

Friday, November 08, 2013

Friday, November 08, 2013

Year

Scenario: Year 2018 With Project					Project Name: Moreno Valley Walmart					
Road Name: Indian Street					Job Number: 8870					
Road Segment: South of John F. Kennedy Drive										
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS					
Highway Data					Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT):		5,948 vehicles			Autos:		15			
Peak Hour Percentage:		10%			Medium Trucks (2 Axes):		15			
Peak Hour Volume:		655 vehicles			Heavy Trucks (3+ Axes):		15			
Vehicle Speed:		45 mph			Vehicle Mix					
Near/Far Lane Distance:		36 feet								
Site Data					Vehicle Type					
Barrier Height:		0.0 feet			Autos:		Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm):		0.0			Medium Trucks:		77.5%	12.9%	8.6%	67.42%
Centerline Dist. to Barrier:		100.0 feet			Heavy Trucks:		84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet			Grade Adjustment:		0.0			
Barrier Distance to Observer:		0.0 feet			Noise Source Elevations (in feet)					
Observer Height (Above Pad):		5.0 feet								
Pad Elevation:		0.0 feet			Autos:		0.000			
Road Elevation:		0.0 feet			Medium Trucks:		2.287			
Road Grade:		0.0%			Heavy Trucks:		8.008			
Left View:		-90.0 degrees			Lane Equivalent Distance (in feet)					
Right View:		90.0 degrees								
					Autos:		98.494			
					Medium Trucks:		89.404			
					Heavy Trucks:		89.413			
FHWA Noise Model Calculations										
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n			
Autos	71.76	-3.12	-4.82	-1.20	-4.77	0.000	0.000	0.000		
Medium Trucks	82.40	-26.35	-4.51	-1.20	-4.80	0.000	0.000	0.000		
Heavy Trucks	86.40	-24.31	-4.51	-1.20	-5.16	0.000	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)										
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL				
Autos	62.9	61.0	59.3	53.2	61.8	62.5				
Medium Trucks	58.3	54.8	49.5	48.5	55.4	55.6				
Heavy Trucks	55.4	55.0	45.9	47.2	55.5	55.6				
Vehicle Noise	64.5	62.0	58.0	54.9	63.5	64.0				
Centerline Distance to Noise Contour (in feet)										
	70 dBA	65 dBA	60 dBA	55 dBA						
Ldn	37	79	171	368						
CNEL	40	95	184	396						

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project				Project Name: Moreno Valley Walmart			
Road Name: Indian Street				Job Number: 8870			
Road Segment: North of Gerding Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT):		1,272 vehicles		Autos:		15	
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15	
Peak Hour Volume:		727 vehicles		Heavy Trucks (3+ Axles):		15	
Vehicle Speed:		40 mph		Vehicle Mix			
Near/Far Lane Distance:		12 feet					
Site Data				VehicleType Day Evening Night Daily			
Barrier Height:		0.0 feet		Autos:		77.5% 12.9% 8.5% 87.42%	
Barrier Type (0-Wall, 1-Berm):		0.0		Medium Trucks:		84.8% 4.9% 10.3% 1.84%	
Centerline Dist. to Barrier:		100.0 feet		Heavy Trucks:		86.5% 2.7% 10.8% 0.74%	
Centerline Dist. to Observer:		100.0 feet		Noise Source Elevations (in feet)			
Barrier Distance to Observer:		0.0 feet					
Observer Height (Above Pad):		5.0 feet		Autos:		0.000	
Pad Elevation:		0.0 feet		Medium Trucks:		2.287	
Road Elevation:		0.0 feet		Heavy Trucks:		8.006 Grade Adjustment: 0.0	
Road Grade:		0.0%		Lane Equivalent Distance (in feet)			
Left View:		-90.0 degrees					
Right View:		90.0 degrees		Autos:		39.545	
				Medium Trucks:		68.658	
				Heavy Trucks:		98.685	
FHWA Noise Model Calculations							
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	66.51	-2.82	-4.92	-1.20	-4.77	0.006	0.000
Medium Trucks	77.72	-2.08	-4.81	-1.20	-4.88	0.006	0.000
Heavy Trucks	82.89	-2.02	-4.61	-1.20	-5.16	0.006	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.8	66.0	64.2	48.2	66.8	67.4	
Medium Trucks	61.8	60.9	44.0	42.4	60.9	61.1	
Heavy Trucks	53.2	51.7	42.7	44.0	52.3	52.4	
Vehicle Noise	56.9	56.2	54.9	50.3	56.8	56.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	16	39	84	181			
CNEL	18	42	90	194			

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project										
Road Name: Indian Street					Project Name: Moreno Valley Walmart					
Road Segment: South of Iris Avenue					Job Number: 8870					
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS					
Highway Data					Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (Adt):		5,336 vehicles			Autos:		15			
Peak Hour Percentage:		10%			Medium Trucks (2 Axles):		15			
Peak Hour Volume:		538 vehicles			Heavy Trucks (3+ Axles):		15			
Vehicle Speed:		40 mph			Vehicle Mix					
Near/Far Lane Distance:		12 feet								
Site Data					Vehicle Type		Day	Evening	Night	Daily
Barrier Height:		0.0 feet			Autos:		77.5%	12.9%	8.5%	87.42%
Barrier Type (0-Wall, 1-Berry):		0.0			Medium Trucks:		84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Barrier:		100.0 feet			Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Observer:		100.0 feet			Noise Source Elevations (in feet)					
Barrier Distance to Observer:		0.0 feet								
Observer Height (Above Pad):		5.0 feet			Autos:		0.000			
Pad Elevation:		0.0 feet			Medium Trucks:		2.287			
Road Elevation:		0.0 feet			Heavy Trucks:		8.006 Grade Adjustment: 0.0			
Road Grade:		0.0%			Lane Equivalent Distance (in feet)					
Left View:		-90.0 degrees								
Right View:		90.0 degrees			Autos:		35.945			
					Medium Trucks:		86.865			
					Heavy Trucks:		95.955			
FHWA Noise Model Calculations										
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n			
Autos	77.5%	5336	-4.13	-4.82	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	84.8%	539	-21.37	-4.61	-1.20	-4.65	0.000	0.000	0.000	
Heavy Trucks	82.98	539	-25.32	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)										
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL				
Autos	65.8	64.7	62.9	48.8	65.6	66.1				
Medium Trucks	59.5	58.0	49.0	42.7	41.1	48.6	49.8			
Heavy Trucks	51.9	50.4	41.4	42.7	51.0	51.1	51.1			
Vehicle Noise	58.6	58.0	53.6	49.0	57.6	58.0	58.0			
Centerline Distance to Noise Contour (in feet)										
	70 dBA	65 dBA	60 dBA	55 dBA						
Ldn	15	32	98	148						
CNEL	18	34	74	159						

Friday, November 02, 2015

Scenario: Year 2018 With Project					Project Name: Moreno Valley Vmart				
Road Name: Ferris Boulevard					Job Number: 8870				
Road Segment: North of SR-60 V&B Ramps									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT)					Autos:				
34,951 vehicles					15				
Peak Hour Percentage					Medium Trucks (2 Axles):				
10%					15				
Peak Hour Volume					Heavy Trucks (3+ Axles):				
3,453 vehicles					15				
Vehicle Speed									
55 mph									
Near/Far Lane Distance									
90 feet									
					Vehicle Mix				
					Vehicle Type				
					Day				
					Evening				
					Night				
					Daily				
Site Data					Autos:				
Barrier Height:					77.5%				
0.0 feet					12.9%				
Barrier Type (0-Wall, 1-Berm):					8.6%				
0-Berm)					67.42%				
Centerline Dist. to Barrier:					Medium Trucks:				
100.0 feet					84.8%				
Centerline Dist. to Observer:					4.9%				
100.0 feet					10.3%				
Barrier Distance to Observer:					1.84%				
0.0 feet					Heavy Trucks:				
Observer Height (Above Pad):					86.5%				
5.0 feet					2.7%				
Pad Elevation:					10.8%				
0.0 feet					0.74%				
Road Elevation:									
0.0 feet									
Road Grade:					Noise Source Elevations (in feet)				
0.0%					Autos:				
Left View:					0.000				
-90.0 degrees					Medium Trucks:				
Right View:					2.287				
90.0 degrees					Heavy Trucks:				
					8.006				
					Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos:				
					87.316				
					Medium Trucks:				
					87.214				
					Heavy Trucks:				
					97.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	2,951	-2.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-14.83	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-18.56	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.5	67.6	65.8	55.7	66.4	66.0			
Medium Trucks	82.8	61.3	55.0	53.4	61.9	62.1			
Heavy Trucks	82.9	61.5	52.4	53.7	62.0	62.2			
Vehicle Noise	71.0	69.3	66.3	61.4	70.0	70.5			
Centerline Distance to Noise Contour (in feet)									

Friday, November 08, 2013

Scenario: Year 2016 With Project Road Name: Penita Boulevard Road Segment: SR-80 V&B Ramps to Sunnymead Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 39,260 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,926 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 6.8% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.9% 0.74%				
					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0=Wall, 1=Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	3,112	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-14.12	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-18.08	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.0	68.1	66.3	60.2	68.8	68.5			
Medium Trucks	82.4	61.8	55.5	53.9	62.4	62.8			
Heavy Trucks	82.4	62.0	52.9	54.2	62.5	62.7			
Vehicle Noise	71.5	69.8	66.8	62.0	70.5	71.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	108	232	502	1,081					
CNEL	118	250	540	1,162					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project					Project Name: Moreno Valley Walmart				
Road Name: Perris Boulevard					Job Number: 8870				
Road Segment: South of Sunnymead Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 26,888 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,688 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet									
Pad Elevation: 0.0 feet					Noise Source Elevations (in feet)				
Road Elevation: 0.0 feet					Autos: 0.000				
Road Grade: 0.0%					Medium Trucks: 2.287				
Left View: -90.0 degrees					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Right View: 90.0 degrees									
					Lane Equivalent Distances (in feet)				
					Autos: 36.464				
					Medium Trucks: 86.404				
					Heavy Trucks: 96.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1,735	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.48	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-18.44	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.8	65.8	64.2	58.1	68.7	67.3			
Medium Trucks	61.2	59.7	53.3	51.9	60.3	60.5			
Heavy Trucks	61.2	59.0	50.8	52.0	60.4	60.6			
Vehicle Noise	69.4	67.6	64.7	59.6	60.4	60.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	76	167	381	777					
CNEL	84	180	398	838					

Fridg, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project				Project Name: Moreno Valley Valmart			
Road Name: Ferris Boulevard				Job Number: 8870			
Road Segment: North of Eucalyptus Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 24,748 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,475 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 36 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle Type Day Evening Night Daily			
Barrier Type (0-Wall, 1-Berm): 0.0				Autos: 77.5% 12.9% 8.6% 87.42%			
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Road): 5.0 feet							
Pad Elevation: 0.0 feet							
Road Elevation: 0.0 feet							
Road Grade: 0.0%							
Left View: -90.0 degrees							
Right View: 90.0 degrees							
Noise Source Elevations (in feet)							
Autos: 0.000							
Medium Trucks: 2.287							
Heavy Trucks: 8.008 Grade Adjustment: 0.0							
Lane Equivalent Distance (in feet)							
Autos: 36.494							
Medium Trucks: 86.404							
Heavy Trucks: 96.413							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	1,611	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.13	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-20.08	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topography and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	87.2	85.3	83.5	81.5	86.1	86	
Medium Trucks	90.8	89.1	87.2	85.2	89.8	89	
Heavy Trucks	93.5	91.2	89.1	87.1	92.4	92	
Vehicle Noise	68.8	67.0	64.0	58.2	87.7	88	
Centerline Distance to Noise Contour (in feet)							
				70 dBA	65 dBA	60 dBA	55 dBA
Leq:				70	152	327	704
CNEL:				76	163	352	758

Friday, November 08, 2013

Scenario: Year 2018 With Project					Project Name: Moreno Valley Valtmart				
Road Name: Ferris Boulevard					Job Number: 8876				
Road Segment: South of Cottonwood Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 25,963 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,595 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos:	77.5%	12.9%	8.6%	87.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos:	0.000			
Road Elevation: 0.0 feet					Medium Trucks:	2.287			
Road Grade: 0.0%					Heavy Trucks:	8.008 Grade Adjustment: 0.0			
Left View: -90.0 degrees					Lane Equivalent Distances (in feet)				
Right View: 90.0 degrees					Autos:	39.494			
					Medium Trucks:	89.404			
					Heavy Trucks:	89.413			
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.32	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.82	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-19.87	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.4	65.6	63.7	57.7	66.3	66.9			
Medium Trucks	69.8	59.3	52.9	51.4	59.8	60.0			
Heavy Trucks	60.8	59.4	50.3	51.6	60.0	60.0			
Vehicle Noise:	68.0	67.2	64.2	58.4	67.9	60.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	73	157	337	727					
CNCEL	78	169	369	762					
Friday, November 08, 2013									

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Highway 168 - Moreno Valley Valtmart (F. 2013)									
Scenario: Year 2018 With Project Road Name: Ferris Boulevard Road Segment: North of Alessandro Boulevard					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 24,355 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,406 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.297				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 39.494				
					Medium Trucks: 89.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.32	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.82	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-19.87	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.1	65.2	63.4	57.3	66.0	66.6			
Medium Trucks	68.4	58.9	52.6	51.0	59.5	59.7			
Heavy Trucks	60.5	59.1	50.0	51.3	59.6	59.8			
Vehicle Noise	68.6	66.9	63.9	59.0	67.6	60.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	69	148	321	681					
CNCEL	74	160	345	743					

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Scenario: Year 2018 With Project					Project Name: Moreno Valley Wal-Mart				
Road Name: Perris Boulevard					Job Number: 8870				
Road Segment: South of Alessandro Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 25,438 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,544 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					VehicleType Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.4% 97.42				
Barrier Height: 0.0 feet					Medium Trucks: 94.8% 4.9% 10.3% 1.84				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
First Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.454				
Road Grade: 0.0%					Medium Trucks: 85.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
VehicleType	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1.32	-4.52	-1.20	-4.77	0.000	0.000	0.00	
Medium Trucks	82.40	-15.81	-4.51	-1.20	-4.85	0.000	0.000	0.00	
Heavy Trucks	86.40	-19.86	-4.51	-1.20	-5.16	0.000	0.000	0.00	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.3	65.4	63.6	57.6	66.2	66.8			
Medium Trucks	68.7	59.2	52.8	51.3	59.7	60.0			
Heavy Trucks	60.7	59.3	50.3	51.5	59.6	60.0			
Vehicle Noise	68.3	67.1	64.2	59.3	67.6	60.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	72	155	333	717					
CNCEL	77	166	358	772					

Fridg, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2018 With Project Road Name: Ferris Boulevard Road Segment: South of John F. Kennedy Drive				Project Name: Moreno Valley Walmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 26,165 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,815 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 90 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 87.316			
Road Grade: 0.0%				Medium Trucks: 87.214			
Left View: -90.0 degrees				Heavy Trucks: 87.224			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	1.02	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.41	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-19.37	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	69.7	65.6	65.6	55.0	67.8	66.2	
Medium Trucks	82.1	60.8	54.2	52.7	61.1	61.3	
Heavy Trucks	82.1	60.7	51.6	52.9	61.2	61.4	
Vehicle Noise	70.3	66.5	65.5	60.7	68.2	69.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	98	181	412	867			
CNCEL	95	205	443	954			

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2016 With Project Road Name: Ferris Boulevard Road Segment: North of Gerdan Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 26,246 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,825 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet									
Site Data					VehicleType Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
VehicleType	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.37	-3.74	-1.20	-4.77	0.006	0.000	0.000	
Medium Trucks	82.40	-15.87	-3.73	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	86.40	-19.83	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.7	66.3	64.5	58.5	67.1	67.7			
Medium Trucks	81.6	60.1	53.7	52.2	60.7	60.9			
Heavy Trucks	81.6	60.2	51.2	52.4	60.8	60.8			
Vehicle Noise	69.0	60.0	55.1	60.2	68.8	69.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	83	176	383	826					
CNCEL	88	191	413	889					

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Scenario: Year 2018 With Project Road Name: Perris Boulevard Road Segment: Gerdan Avenue to Driveway 3					Project Name: Moreno Valley Wal-Mart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 25,835 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,581 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -90.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.02	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.84	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-19.80	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.1	65.2	65.2	55.4	58.4	67.0	67.6		
Medium Trucks	81.5	60.0	53.7	52.1	60.6	60.8			
Heavy Trucks	81.6	60.1	51.1	52.4	60.7	60.6			
Vehicle Noise	69.7	66.0	65.0	60.1	63.7	65.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	82	176	378	817					
CNCEL	66	189	408	879					

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Scenario: Year 2018 With Project Road Name: Ferris Boulevard Road Segment: South of Iris Avenue				Project Name: Morro Valley Viaduct Job Number: 8876				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,656 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,268 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph				Vehicle Mix				
Near/Far Lane Distance: 90 feet				VehicleType	Day	Evening	Night	Daily
Site Data				Autos	77.5%	12.9%	8.6%	67.42%
Barrier Height: 0.0 feet				Medium Trucks	84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet				Autos	0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks	2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks	8.006	Grade Adjustment: 0.0		
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet				Autos	87.316			
Road Grade: 0.0%				Medium Trucks	87.214			
Left View: -90.0 degrees				Heavy Trucks	87.224			
Right View: 90.0 degrees				FWHA Noise Model Calculations				
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	Berm Atten
Autos	71.78	0.72	-3.74	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-16.51	-3.73	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.40	-20.46	-3.73	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	67.6	65.7	63.8	57.6	66.5	67.1		
Medium Trucks	61.0	59.6	59.1	51.8	60.0	60.2		
Heavy Trucks	61.0	59.6	59.5	51.8	60.2	60.3		
Vehicle Noise	68.2	67.4	64.4	58.6	68.1	69.6		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	75	161	346	749				
CNEL	81	174	374	806				

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Scenario: Year 2018 With Project										Project Name: Moreno Valley Walmart			
Road Name: Ferris Boulevard										Job Number: 8370			
Road Segment: North of Krameria Avenue													
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS								
Highway Data					Site Conditions (Hard = 10, Soft = 15)								
Average Daily Traffic (ADT): 21,533 vehicles					Autos: 15								
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15								
Peak Hour Volume: 2,153 vehicles					Heavy Trucks (3+ Axles): 15								
Vehicle Speed: 55 mph					Vehicle Mix								
Near/Far Lane Distance: 90 feet													
Site Data					Vehicle Type	Day	Evening	Night	Daily				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos:	77.5%	12.9%	6.8%	87.42%				
					Medium Trucks:	84.8%	4.9%	10.3%	1.84%				
					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%				
					Noise Source Elevations (in feet)								
					Autos:	0.000							
					Medium Trucks:	2.297							
					Heavy Trucks:	8.006 Grade Adjustment: 0.0							
					Lane Equivalent Distance (in feet)								
					Autos:	87.316							
					Medium Trucks:	87.214							
					Heavy Trucks:	87.224							
FWHA Noise Model Calculations													
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten						
Autos	71.78	0.51	-3.74	-1.20	-4.77	0.000	0.000						
Medium Trucks	82.40	-16.73	-3.73	-1.20	-4.80	0.000	0.000						
Heavy Trucks	86.40	-20.68	-3.73	-1.20	-5.16	0.000	0.000						
Unmitigated Noise Levels (without Topo and barrier attenuation)													
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL							
Autos	67.4	65.5	63.7	57.6	66.3	66.9							
Medium Trucks	60.7	59.2	58.9	51.3	59.8	60.0							
Heavy Trucks	60.6	59.4	59.3	51.8	59.8	60.1							
Vehicle Noise	66.9	67.2	64.2	59.3	67.8	68.4							
Centerline Distance to Noise Contour (in feet)													
	70 dBA	65 dBA	60 dBA	55 dBA									
Ldn	72	156	336	724									
CNEL	78	166	362	779									

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Scenario: Year 2018 With Project Road Name: Perris Boulevard Road Segment: South of Krameria Avenue					Project Name: Moreno Valley Millmont Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,114 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,211 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					VehicleType	Day	Evening	Night	Daily
Site Data					Autos:	77.5%	12.9%	9.9%	97.42%
Barrier Height: 0.0 feet					Medium Trucks:	84.8%	4.8%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos:	0.000			
Barrier Distance to Observer: 0.0 feet					Medium Trucks:	2.287			
Observer Height (Above Pad): 5.0 feet					Heavy Trucks:	8.006	Grade Adjustment:	0.0	
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos:	87.316			
Road Grade: 0.0%					Medium Trucks:	87.214			
Left View: -90.0 degrees					Heavy Trucks:	87.224			
Right View: 90.0 degrees									
FWHA Noise Model Calculations									
VehicleType	RECEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	0.62	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.61	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-20.57	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.5	65.8	63.8	57.8	66.4	67.0			
Medium Trucks	60.9	59.4	59.0	51.4	59.8	60.1			
Heavy Trucks	60.9	59.5	59.4	51.7	60.0	60.2			
Vehicle Noise	68.0	67.3	64.3	59.5	68.0	68.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	74	159	342	737					
CNEL	79	171	358	789					

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Scenario: Year 2018 With Project									
Road Name: Ferris Boulevard									
Road Segment: North of San Michele Road									
Project Name: Moreno Valley Vistas									
Job Number: 0076									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 23,145 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,315 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos	77.5%	12.9%	9.6%	67.42%
Barrier Height: 0.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos	0.000			
Barrier Distance to Observer: 0.0 feet					Medium Trucks	2.287			
Observer Height Above Road: 0.0 feet					Heavy Trucks	0.000	Grade Adjustment: 0.0		
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos	87.316			
Left View: -50.0 degrees					Medium Trucks	87.214			
Right View: 50.0 degrees					Heavy Trucks	87.224			
FHWA Noise Model Calculations									
Vehicle Type	REINEL	Traffic Flow	Distance	Profile Road	Frequency	Banner Atrien	Berm/Allen		
Autos	71.78	0.92	-3.74	-1.20	-4.77	0.050	0.935		
Medium Trucks	82.40	-16.42	-3.73	-1.20	-4.86	0.009	0.006		
Heavy Trucks	99.40	-20.37	-3.79	-1.20	-5.16	0.050	0.936		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	87.7	65.6	64.0	57.6	66.8	67.7			
Medium Trucks	91.1	59.8	53.2	51.8	60.1	60.3			
Heavy Trucks	91.1	59.7	50.6	51.8	60.2	60.3			
Vehicle Noise:	69.2	67.5	64.5	59.7	68.2	68.1			
Centerline Distance to Noise Contour (in feet)									
	70 A-weighted	65 A-weighted	60 A-weighted	55 A-weighted					
Leq:	76	164	353	760					
CNEL:	82	179	379	917					
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Scenario: Year 2018 Valt Project Road Name: Harris Boulevard Road Segment: North of Harley Knir Boulevard				Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 32,140 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15				
Peak Hour Volume: 3,214 vehicles				Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 45 mph				Vehicle Mix				
Near/Far Lane Distance: 24 feet				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos	77.5%	12.9%	9.6%	67.42%
Barrier Height: 0.0 feet				Medium Trucks	84.8%	4.9%	10.3%	1.94%
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000				
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287				
Observer Height (Above Pad): 5.6 feet				Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)				
Road Elevation: 0.6 feet				Autos: 39.403				
Road Grade: 0.0%				Medium Trucks: 98.314				
Left View: -60.0 degrees				Heavy Trucks: 99.323				
Right View: 80.0 degrees								
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	88.48	3.12	-4.88	-1.20	-4.77	0.000	0.000	9.000
Medium Trucks	79.45	-14.12	-4.57	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	84.25	-18.07	-4.57	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	85.8	63.8	62.1	56.1	64.7	65.3		
Medium Trucks	59.8	58.0	51.7	50.1	58.8	58.8		
Heavy Trucks	60.4	59.0	49.8	51.2	58.8	58.7		
Vehicle Noise	67.6	65.8	62.7	58.1	66.5	67.1		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	58	128	276	584				
CNCEL	64	137	295	637				

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Scenario: Year 2018 With Project					Project Name: Moreno Valley Walmart				
Road Name: Parris Boulevard					Job Number: 8870				
Road Segment: South of Harley Knox Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 29,896 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 2,887 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 45 mph									
Near/Far Lane Distance: 24 feet					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Site Data					Vehicle Elev				
Barrier Height: 0.0 feet					Autos: 0.000				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 2.297				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Furg): 5.0 feet					Medium Trucks: 2.297				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 89.403				
Left View: -90.0 degrees					Medium Trucks: 69.314				
Right View: 90.0 degrees					Heavy Trucks: 98.323				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	69.48	2.99	-4.98	-1.20	-4.77	0.000	0.000		
Medium Trucks	79.45	-14.98	-4.57	-1.20	-4.89	0.000	0.000		
Heavy Trucks	84.25	-18.94	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.0	63.1	61.4	55.3	63.8	64.5			
Medium Trucks	58.8	57.3	50.9	49.4	57.8	58.1			
Heavy Trucks	58.6	56.2	46.2	50.4	58.8	58.8			
Vehicle Noise	66.9	65.1	62.0	57.3	65.8	66.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	53	114	245	529					
CNCEL	57	122	263	587					

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Scenario: Year 2018 Valt Project					Project Name: Moreno Valley Valtmart				
Road Name: Pernis Boulevard					Job Number: 8870				
Road Segment: North of Ramona Expressway									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 25,185 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 2,517 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 38 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distances (in feet)				
Road Elevation: 0.0 feet					Autos: 36.454				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 96.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.76	1.18	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-18.05	-4.51	-1.20	-4.85	0.000	0.000		
Heavy Trucks	86.40	-20.01	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.2	65.3	63.8	57.5	66.1	66.8			
Medium Trucks	60.6	59.1	52.8	51.2	59.7	59.8			
Heavy Trucks	60.7	59.3	50.2	51.5	59.6	59.9			
Vehicle Noise	68.3	67.1	64.1	59.2	67.6	68.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	71	153	331	712					
CNCEL	77	155	358	768					

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Scenario: Year 2018 With Project Road Name: Kitching Street Road Segment: North of John F. Kennedy Drive				Project Name: Moreno Valley Walmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 8,363 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15			
Peak Hour Volume: 853 vehicles				Heavy Trucks (3+ Axes): 15			
Vehicle Speed: 40 mph				Vehicle Mix			
Near/Far Lane Distance: 12 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.008 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 39.845			
Road Grade: 0.0%				Medium Trucks: 89.856			
Left View: -60.0 degrees				Heavy Trucks: 89.885			
Right View: 60.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	68.51	-1.78	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-16.98	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.98	-22.95	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	58.9	57.0	55.3	48.2	57.8	58.5	
Medium Trucks	52.9	51.4	49.0	43.5	52.0	52.2	
Heavy Trucks	54.2	52.8	49.8	45.0	53.4	53.5	
Vehicle Noise	61.0	59.2	55.8	51.4	58.9	60.4	
Centerline Distance to Noise Contour (in feet)							
70 dBA 65 dBA 60 dBA 55 dBA							
Ldn: 21 46 98 213							
CNSEL: 23 49 105 226							

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Scenario: Year 2016 With Project					Project Name: Moreno Valley Walmart				
Road Name: Kitching Street					Job Number: 8870				
Road Segment: South of John F. Kennedy Drive									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,160 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,016 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph									
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type		RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos		66.51	-1.37	-4.52	-1.20	-4.77	0.006	0.000	0.000
Medium Trucks		77.72	-18.61	-4.81	-1.20	-4.59	0.006	0.000	0.000
Heavy Trucks		82.89	-22.56	-4.61	-1.20	-5.16	0.006	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type		Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL		
Autos		58.3	57.4	55.7	48.6	58.2	58.9		
Medium Trucks		52.3	51.8	49.4	43.9	52.3	52.8		
Heavy Trucks		54.6	53.2	44.2	45.4	53.8	53.9		
Vehicle Noise		61.3	59.6	56.3	51.8	60.3	60.8		
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Ldn		23	49	105	226				
CNSEL		24	52	112	242				

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Scenario: Year 2018 With Project Road Name: Kitching Street Road Segment: North of Iris Avenue				Project Name: Moreno Valley Walmart Job Number: 8870					
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (adt):		7,501 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15			
Peak Hour Volume:		750 vehicles		Heavy Trucks (3+ Axles):		15			
Vehicle Speed:		55 mph		Vehicle Mix					
Near/Far Lane Distance:		36 feet		Vehicle Type		Day	Evening	Night	Daily
Site Data				Autos:		77.5%	12.9%	8.9%	87.42%
Barrier Height:		0.0 feet		Medium Trucks:		84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm):		0.0		Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier:		100.0 feet		Noise Source Elevations (in feet)					
Centerline Dist. to Observer:		100.0 feet		Autos:		0.000			
Barrier Distance to Observer:		0.0 feet		Medium Trucks:		2.287			
Observer Height (above Pad):		5.0 feet		Heavy Trucks:		8.006 Grade Adjustment: 0.0			
Pad Elevation:		0.0 feet		Lane Equivalent Distances (in feet)					
Road Elevation:		0.0 feet		Autos:		38.484			
Road Grade:		0.0%		Medium Trucks:		86.404			
Left View:		-90.0 degrees		Heavy Trucks:		86.413			
Right View:		90.0 degrees							
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	-4.07	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-21.31	-4.51	-1.20	-4.85	0.000	0.000	0.000	
Heavy Trucks	86.40	-25.27	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	62.0	60.1	58.3	57.3	60.8	61.5			
Medium Trucks	55.4	53.9	47.5	45.0	54.4	54.7			
Heavy Trucks	55.4	54.0	45.0	45.2	54.6	54.7			
Vehicle Noise	63.6	61.3	53.9	54.6	62.6	63.0			
Centerline Distance to Noise Contour (in feet)									
		70 dBA		65 dBA		60 dBA		55 dBA	
Ldn		31		98		14.7		315	
CNSEL		34		74		159		342	
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Scenario: Year 2015 Without Project					Project Name: Moreno Valley Valmart				
Road Name: Sunnymead Boulevard					Job Number: 3870				
Road Segment: Perris Boulevard to SR-60 EB On-Ramp									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 26,000 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 2,800 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 65 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000				
Medium Trucks: 2.287									
Heavy Trucks: 8.006 Grade Adjustment: 0.0									
Lane Equivalent Distance (in feet)									
Autos: 38.494									
Medium Trucks: 89.404									
Heavy Trucks: 89.413									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	-71.78	1.90	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-15.44	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-19.36	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	61.8	65.0	64.2	55.1	66.8	67.4			
Medium Trucks	61.3	59.7	59.4	51.6	60.3	60.5			
Heavy Trucks	61.3	59.6	59.8	52.1	60.4	60.6			
Vehicle Noise	68.4	67.7	64.7	58.9	68.4	69.9			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	78	169	363	763					
CNCEL	84	181	391	842					

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Scenario: Year 2015 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Eucalyptus Avenue					Job Number: 8870				
Road Segment: East of Perris Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 15,000 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,500 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Type				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 39.545				
					Medium Trucks: 88.858				
					Heavy Trucks: 88.885				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	0.32	-4.62	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	77.72	-16.92	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	82.89	-20.87	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	61.0	58.1	57.4	51.3	58.8	60.5			
Medium Trucks	55.0	53.5	47.1	45.8	54.0	54.3			
Heavy Trucks	56.5	54.9	45.9	47.1	55.5	55.8			
Vehicle Noise	60.0	61.3	58.0	53.5	62.0	62.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	29	63	136	283					
CNCEL	31	68	148	314					

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Scenario: Year 2015 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Cottonwood Avenue					Job Number: 8870				
Road Segment: West of Indian Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 15,780 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,578 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 38.403				
Road Grade: 0.0%					Medium Trucks: 86.314				
Left View: -90.0 degrees					Heavy Trucks: 86.323				
Right View: 90.0 degrees									
FHWA Noise Abol Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	-68.46	0.02	-4.59	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	76.46	-17.21	-4.57	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	84.25	-21.17	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	62.7	60.8	59.0	53.0	61.6	62.2			
Medium Trucks	56.5	55.0	48.9	47.0	55.5	55.7			
Heavy Trucks	57.3	55.9	48.9	49.1	55.6	55.6			
Vehicle Noise	64.5	62.3	53.9	55.6	63.5	64.0			
Centerline Distance to Noise Contour (in feet)									
		70 dBA		65 dBA		60 dBA		55 dBA	
Ldn		37		86		171		388	
CNEL		40		95		184		398	

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Scenario: Year 2035 Without Project Road Name: Alessandro Boulevard Road Segment: West of Heacock Street				Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 54,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,400 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	4.50	-3.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-12.74	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-16.66	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	71.3	68.4	67.7	61.6	70.2	70.9		
Medium Trucks	84.7	69.2	68.9	55.3	63.8	64.0		
Heavy Trucks	84.8	69.4	69.3	55.6	63.9	64.0		
Vehicle Noise	72.8	71.2	68.2	63.3	71.9	72.4		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	134	268	820	1,336				
CNCEL	144	310	887	1,436				

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Scenario: Year 2035 Without Project Road Name: Alessandro Boulevard Road Segment: East of Heacock Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 48,900 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,800 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: Centerline Dist. to Observer: Barrier Distance to Observer: Observer Height (Above Pad): Pad Elevation: Road Elevation: Road Grade: Left View: Right View:					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.89	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.25	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-17.20	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.8	68.9	67.2	61.1	68.7	70.3			
Medium Trucks	84.2	62.7	62.4	54.8	63.3	63.5			
Heavy Trucks	84.5	62.8	62.8	55.1	63.4	63.5			
Vehicle Noise	72.4	70.7	67.7	62.8	71.4	71.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	124	266	573	1,236					
CNCEL	133	298	617	1,328					

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Scenario: Year 2035 Without Project Road Name: Alessandro Boulevard Road Segment: West of Indian Street				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 48,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,600 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle/Type	Day	Evening	Night	Daily
				Autos: 77.5% 12.9% 8.0% 87.42%				
				Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Site Data				Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berrier): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
				Lane Equivalent Distances (in feet)				
				Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.76	3.81	-3.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-13.43	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-17.39	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	70.7	68.8	67.0	60.8	68.6	70.2		
Medium Trucks	84.0	62.5	62.5	54.9	63.1	63.2		
Heavy Trucks	84.1	62.7	62.8	54.9	63.2	63.4		
Vehicle Noise	72.2	70.5	67.5	62.6	71.2	71.7		
Centerline Distance to Noise Contour (in feet)								
70 dBA 65 dBA 60 dBA 55 dBA								
Ldn 120 259 557 1,201								
CNEL 129 278 600 1,282								

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Noise Model Inputs and Results - Highway Data									
Scenario: Year 2035 Without Project Road Name: Alessandro Boulevard Road Segment: East of Indian Street					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 43,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,300 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0=Wall, 1=Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.51	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.73	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-17.68	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.4	68.6	66.7	60.6	68.3	68.9			
Medium Trucks	83.7	62.2	62.2	54.3	62.8	63.0			
Heavy Trucks	83.8	62.4	62.4	54.6	62.9	63.1			
Vehicle Noise:	71.8	70.2	67.2	62.3	70.9	71.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	115	247	533	1,148					
CNCEL	124	268	573	1,236					

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Noise Model Inputs

Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 3870				
Road Segment: West of I-215 Freeway									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 41,904 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 4,150 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.8% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 38.494				
Road Grade: 0.0%					Medium Trucks: 89.404				
Left View: -90.0 degrees					Heavy Trucks: 89.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.40	-4.52	-1.20	-4.77	0.000	0.000	9.000	
Medium Trucks	82.40	-13.94	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-17.76	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.5	67.6	65.6	55.7	66.4	66.0			
Medium Trucks	82.9	61.3	55.0	53.4	61.9	62.1			
Heavy Trucks	82.9	61.5	52.4	53.7	62.0	62.2			
Vehicle Noise	71.0	69.3	66.3	61.4	70.0	70.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	109	218	454	1,006					
CNCEL	109	232	500	1,076					

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: I-215 SB Ramps to I-215 NB Ramps									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 46,894 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,689 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
FHWA Noise Model Calculations					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
Vehicle Type									
RESEL									
Traffic Flow									
Distance									
Finite Road									
Fresnel									
Barrier Att'n									
Berm Att'n									
Autos									
71.78									
3.89									
-4.52									
-1.20									
-4.77									
0.000									
0.000									
Medium Trucks									
62.40									
-13.35									
-4.51									
-1.20									
-4.89									
0.000									
0.000									
Heavy Trucks									
86.40									
-17.30									
-4.51									
-1.20									
-5.16									
0.000									
0.000									
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type									
Leq Peak Hour									
Leq Day									
Leq Evening									
Leq Night									
Ldn									
CNEL									
Autos									
70.0									
68.1									
66.3									
60.2									
68.8									
68.5									
Medium Trucks									
82.3									
61.8									
55.5									
53.9									
62.4									
62.8									
Heavy Trucks									
82.4									
62.0									
52.9									
54.2									
62.5									
62.7									
Vehicle Noise									
71.5									
69.8									
66.8									
61.8									
70.5									
71.0									
Centerline Distance to Noise Contour (in feet)									
70 dBA									
65 dBA									
60 dBA									
55 dBA									
Ldn									
108									
232									
501									
1,078									
CNEL									
118									
250									
539									
1,180									

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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue				Job Number: 8870				
Road Segment: East of I-215 NB Ramps								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt)		65,412 vehicles		Autos		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		6,541 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed		55 mph						
Near/Far Lane Distance:		36 feet						
Site Data				Vehicle Mix				
Barrier Height:		0.0 feet		Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm):		0.0		Autos:	77.5%	12.9%	8.6%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Observer Height (above Pad):		5.0 feet		Noise Source Elevations (in feet)				
Road Elevation:		0.0 feet		Autos:		0.000		
Road Grade:		0.0%		Medium Trucks:		2.287		
Left View:		-90.0 degrees		Heavy Trucks:		8.006		
Right View:		90.0 degrees		Grade Adjustment:		0.0		
FHWA Noise Abolot Calculations				Lane Equivalent Distances (in feet)				
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	5.33	-4.52	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-11.80	-4.51	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-15.68	-4.51	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	71.4	69.5	67.7	61.7	70.3	70.8		
Medium Trucks	84.8	63.3	56.8	55.4	63.8	64.1		
Heavy Trucks	84.8	63.4	54.4	55.6	64.0	64.1		
Vehicle Noise	73.0	71.2	69.2	62.4	71.6	72.4		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	195	230	265	1,248				
CNEL	149	912	872	1,448				
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Scenario: Year 2035 Without Project Road Name: Cactus Avenue Road Segment: East of Frederick Street					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 62,358 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 6,238 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.13	-3.74	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-12.11	-3.73	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-16.07	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	72.0	70.1	69.3	62.3	70.9	71.5			
Medium Trucks	85.4	83.8	81.5	68.0	84.4	84.1			
Heavy Trucks	85.4	84.0	81.8	68.0	84.5	84.7			
Vehicle Noise	73.6	71.8	68.8	64.0	72.5	73.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	147	317	883	1,471					
CNCEL	158	341	735	1,582					
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Scenario: Year 2035 Without Project Road Name: Cactus Avenue Road Segment: West of Graham Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 59,390 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,939 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.89	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.35	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-16.30	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.7	68.8	66.1	62.0	70.5	71.2			
Medium Trucks	85.1	83.8	81.3	67.7	84.2	84.4			
Heavy Trucks	85.2	83.7	81.3	67.7	84.3	84.4			
Vehicle Noise	72.3	71.0	68.8	63.7	72.3	72.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	142	306	859	1,419					
CNCEL	153	329	709	1,527					
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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Wal-Mart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: East of Graham Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 54,880 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,488 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 98 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berry): 0.0					Autos: 77.5% 12.6% 9.4% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet					Noise Source Elevations (in feet)				
Road Elevation: 0.0 feet					Autos: 0.000				
Road Grade: 0.0%					Medium Trucks: 2.297				
Left View: -90.0 degrees					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Right View: 90.0 degrees									
FHWA Noise Model Calculations					Lane Equivalent Distance (in feet)				
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.55	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.68	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-16.64	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.4	68.5	65.7	61.7	70.3	70.8			
Medium Trucks	84.8	83.3	80.8	67.4	83.8	84.1			
Heavy Trucks	84.9	83.4	80.9	67.4	84.0	84.1			
Vehicle Noise	73.9	71.2	69.3	63.4	71.6	72.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	135	280	825	1,347					
CNCEL	145	312	873	1,449					
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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue				Job Number: 3870				
Road Segment: West of Heacock Street								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 50,388 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,038 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph								
Near/Far Lane Distance: 80 feet								
				Vehicle Mix				
				Vehicle Type:	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet								
Centerline Dist. to Observer: 100.0 feet								
Barrier Distance to Observer: 0.0 feet								
Observer Height (Above Road): 5.0 feet								
Pad Elevation: 0.0 feet								
Road Elevation: 0.0 feet								
Road Grade: 0.0%				Grade Adjustment: 0.0				
Left View: -90.0 degrees								
Right View: 90.0 degrees								
				Noise Source Elevations (in feet)				
				Autos: 0.000				
				Medium Trucks: 2.287				
				Heavy Trucks: 8.008				
				Lane Equivalent Distance (in feet)				
				Autos: 87.316				
				Medium Trucks: 87.214				
				Heavy Trucks: 87.224				
FHWA Noise Model Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	4.16	-3.74	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-13.05	-3.73	-1.20	-4.80	0.000	0.000	
Heavy Trucks	86.40	-17.00	-3.73	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	71.0	68.1	65.4	61.3	69.9	70.5		
Medium Trucks	84.4	82.8	80.3	66.9	83.5	83.7		
Heavy Trucks	84.5	83.0	80.5	66.9	83.6	83.7		
Vehicle Noise:	72.6	70.8	67.9	63.0	71.9	72.1		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn:	127	275	582	1,274				
CNCEL:	137	286	636	1,371				

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Scenario: Year 2035 Without Project Road Name: Cactus Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Valmart Job Number: 3870					
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS					
Highway Data					Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT): 38,351 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,835 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15					
					Vehicle Mix					
					Vehicle Type Day Evening Night Daily					
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%					
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0					
					Noise Source Elevations (in feet)					
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0					
					Lane Equivalent Distance (in feet)					
					Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 89.413					
FHWA Noise Model Calculations										
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n			
Autos	71.78	3.12	-4.52	-1.20	-4.77	0.000	0.000	9.900		
Medium Trucks	82.40	-14.11	-4.51	-1.20	-4.80	0.000	0.000	0.000		
Heavy Trucks	86.40	-18.07	-4.51	-1.20	-5.16	0.000	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)										
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL			
Autos	69.2	67.3	65.6	55.6	66.1	66.7	66.7			
Medium Trucks	82.8	61.1	54.7	53.2	61.8	61.9	61.9			
Heavy Trucks	82.6	61.2	52.2	53.4	61.8	61.9	61.9			
Vehicle Noise	70.8	69.0	66.0	61.2	68.7	70.2	70.2			
Centerline Distance to Noise Contour (in feet)										
					70 dBA	65 dBA	60 dBA	55 dBA		
Ln:					96	207	445	959		
CNEL:					103	222	479	1,032		

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Scenario: Year 2035 Without Project Road Name: Cactus Avenue Road Segment: West of Fernis Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 37,300 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,700 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: Centerline Dist. to Observer: Barrier Distance to Observer: Observer Height (Above Pad): Pad Elevation: Road Elevation: Road Grade: Left View: Right View:					VehicleType Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.494 Medium Trucks: 66.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	2.99	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-14.38	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-18.33	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	Ln	CNEL		
Autos	68.8	67.0	65.3	55.2	68.2	67.8	88.4		
Medium Trucks	82.3	60.8	54.4	52.9	61.4	61.4	91.8		
Heavy Trucks	82.5	60.9	51.9	53.1	61.5	61.5	91.8		
Vehicle Noise	70.5	68.7	65.8	60.9	69.5	69.5	89.8		
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ln	82	198	427	921					
CNEL	98	213	460	891					

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Scenario: Year 2035 Without Project Road Name: Cactus Avenue Road Segment: East of Ferns Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 32,030 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,200 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle/Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%				
				Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distance (in feet) Autos: 38.494 Medium Trucks: 86.404 Heavy Trucks: 96.413				
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.78	2.23	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-15.01	-4.51	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.40	-18.97	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ln	CNEL		
Autos	68.3	66.4	64.8	54.8	67.2	67.8		
Medium Trucks	81.7	60.2	53.8	52.3	60.7	61.0		
Heavy Trucks	81.7	60.3	51.3	52.5	60.6	61.0		
Vehicle Noise	69.3	68.1	65.2	60.3	68.6	69.3		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ln	64	180	398	838				
CNEL	80	194	417	889				

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Scenario: Year 2035 Without Project										Project Name: Moreno Valley Walmart									
Road Name: Cactus Avenue										Job Number: 3870									
Road Segment: East of Kitching Street																			
SITE SPECIFIC INPUT DATA										NOISE MODEL INPUTS									
Highway Data										Site Conditions (Hard = 10, Soft = 15)									
Average Daily Traffic (ADT): 24,828 vehicles										Autos: 15									
Peak Hour Percentage: 10%										Medium Trucks (2 Axes): 15									
Peak Hour Volume: 2,463 vehicles										Heavy Trucks (3+ Axes): 15									
Vehicle Speed: 55 mph																			
Near/Far Lane Distance: 36 feet																			
Site Data										Vehicle Mix									
Barrier Height: 0.0 feet										Vehicle Type Day Evening Night Daily									
Barrier Type (0-Wall, 1-Berm): 0.0										Autos: 77.5% 12.9% 8.6% 87.42%									
Centerline Dist. to Barrier: 100.0 feet										Medium Trucks: 84.8% 4.9% 10.3% 1.84%									
Centerline Dist. to Observer: 100.0 feet										Heavy Trucks: 86.5% 2.7% 10.8% 0.74%									
Barrier Distance to Observer: 0.0 feet																			
Observer Height (Above Road): 5.0 feet																			
Pad Elevation: 0.0 feet																			
Road Elevation: 0.0 feet																			
Road Grade: 0.0%																			
Left View: -90.0 degrees																			
Right View: 90.0 degrees																			
Noise Source Elevations (in feet)																			
Autos: 0.000																			
Medium Trucks: 2.287																			
Heavy Trucks: 8.006										Grade Adjustment: 0.0									
Lane Equivalent Distance (in feet)																			
Autos: 38.494																			
Medium Trucks: 89.404																			
Heavy Trucks: 89.413																			
FHWA Noise Model Calculations																			
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n												
Autos	71.78	1.13	-4.52	-1.20	-4.77	0.000	0.000												
Medium Trucks	82.40	-16.11	-4.51	-1.20	-4.80	0.000	0.000												
Heavy Trucks	89.40	-20.07	-4.51	-1.20	-5.16	0.000	0.000												
Unmitigated Noise Levels (without Topo and barrier attenuation)																			
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL													
Autos	87.2	65.3	63.5	57.6	66.1	66.1													
Medium Trucks	90.8	59.1	57.2	51.2	59.8	59.8													
Heavy Trucks	93.9	59.2	50.2	51.4	58.9	58.9													
Vehicle Noise:	69.8	67.0	64.0	59.2	67.7	67.7													
Centerline Distance to Noise Contour (in feet)																			
70 dBA 65 dBA 60 dBA 55 dBA																			
Ldn: 71 152 338 766																			
CNEL: 78 164 352 759																			
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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart													
Road Name: John F. Kennedy Drive					Job Number: 3870													
Road Segment: West of Indian Street																		
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS													
Highway Data					Site Conditions (Hard = 10, Soft = 15)													
Average Daily Traffic (ADT): 19,962 vehicles					Autos: 15													
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15													
Peak Hour Volume: 1,958 vehicles					Heavy Trucks (3+ Axes): 15													
Vehicle Speed: 55 mph					Vehicle Mix													
Near/Far Lane Distance: 36 feet																		
Site Data					Vehicle Type					Day	Evening	Night	Daily					
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Autos:					77.5%	12.9%	8.6%	87.42%					
					Medium Trucks:					84.8%	4.9%	10.3%	1.84%					
					Heavy Trucks:					86.5%	2.7%	10.8%	0.74%					
					Noise Source Elevations (in feet)					Autos:					0.000			
										Medium Trucks:					2.287			
					Heavy Trucks:					8.008 Grade Adjustment: 0.0								
<th colspan="5">Lane Equivalent Distance (in feet)</th> <td colspan="5">Autos:</td> <td colspan="4">38.494</td>					Lane Equivalent Distance (in feet)					Autos:					38.494			
										Medium Trucks:					89.404			
										Heavy Trucks:					89.413			
					FHWA Noise Model Calculations													
					Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n						
Autos	71.78	0.06	-4.52	-1.20	-4.77	0.000	0.000	0.000										
Medium Trucks	82.40	-17.15	-4.51	-1.20	-4.80	0.000	0.000	0.000										
Heavy Trucks	86.40	-21.10	-4.51	-1.20	-5.16	0.000	0.000	0.000										
Unmitigated Noise Levels (without Topo and barrier attenuation)																		
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL												
Autos	65.2	64.3	62.5	55.4	65.1	65.7												
Medium Trucks	59.5	59.0	51.7	50.1	58.8	58.8												
Heavy Trucks	58.9	59.2	49.1	50.4	58.7	58.9												
Vehicle Noise	67.7	66.0	63.0	58.1	66.7	67.2												
Centerline Distance to Noise Contour (in feet)																		
					70 dBA	65 dBA	60 dBA	55 dBA										
Ldn					80	130	275	802										
CNEL					85	140	301	846										

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: John F. Kennedy Drive					Job Number: 8870				
Road Segment: East of Indian Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 21,104 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,110 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 38.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.42	-4.52	-1.20	-4.77	0.006	0.000	0.000	
Medium Trucks	82.40	-16.82	-4.51	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	86.40	-20.77	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.5	64.6	62.8	55.8	66.4	66.9			
Medium Trucks	58.9	58.4	52.0	50.5	58.9	59.2			
Heavy Trucks	58.6	58.5	46.5	50.7	58.1	59.2			
Vehicle Noise	66.1	66.3	63.3	58.5	67.0	67.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	83	136	284	833					
CNCEL	88	147	315	881					

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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Walmart			
Road Name: John F. Kennedy Drive				Job Number: 8870			
Road Segment: West of Perris Boulevard							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 25,839 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,589 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distances (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 86.404			
Left View: -90.0 degrees				Heavy Trucks: 86.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	1.28	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.84	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-19.80	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.4	65.5	63.7	57.8	68.3	68.8	
Medium Trucks	60.7	59.2	52.8	51.3	59.8	60.0	
Heavy Trucks	60.9	59.4	50.3	51.6	59.6	60.1	
Vehicle Noise	60.9	57.2	54.2	55.5	67.6	62.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA		65 dBA		60 dBA		55 dBA
Ln	72		136		226		724
CNEL	78		159		352		719

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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Valmart					
Road Name: Gentian Avenue				Job Number: 3870					
Road Segment: West of Indian Street									
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS					
Highway Data				Site Conditions (Hard = 10, Soft = 15)					
Average Daily Traffic (ADT)		3,003 vehicles		Autos:		15			
Peak Hour Percentage:		10%		Medium Trucks (2 Axes):		15			
Peak Hour Volume:		300 vehicles		Heavy Trucks (3+ Axes):		15			
Vehicle Speed:		45 mph		Vehicle Mix					
Near/Far Lane Distance:		36 feet							
Site Data				Vehicle/Type					
Barrier Height:		0.0 feet		Autos:		Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm):		0.0		Autos:		77.5%	12.9%	8.6%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:		84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:		86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet		Noise Source Elevations (in feet)					
Observer Height (Above Pad):		5.0 feet							
Pad Elevation:		0.0 feet		Autos:		0.000			
Road Elevation:		0.0 feet		Medium Trucks:		2.287			
Road Grade:		0.0%		Heavy Trucks:		8.006		Grade Adjustment: 0.0	
Left View:		-60.0 degrees		Lane Equivalent Distance (in feet)					
Right View:		60.0 degrees							
				Autos:		38.494			
				Medium Trucks:		89.404			
				Heavy Trucks:		89.413			
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	88.48	-17.16	-4.62	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	79.45	-24.42	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	84.25	-26.37	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	55.9	53.7	51.6	45.6	54.5	56.1			
Medium Trucks	49.3	47.8	41.4	39.5	48.4	48.6			
Heavy Trucks	50.2	49.7	39.7	41.0	49.2	48.4			
Vehicle Noise	57.4	55.7	52.5	47.0	56.4	56.0			
Centerline Distance to Noise Contour (in feet)									
		70 dBA		65 dBA		60 dBA		55 dBA	
Ldn:		12		27		57		123	
CNEL:		13		29		61		132	

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Gentian Avenue					Job Number: 8870				
Road Segment: East of Pennis Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 7,506 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 750 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet									
Site Data					VehicleType				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 32.945				
					Medium Trucks: 68.658				
					Heavy Trucks: 68.685				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	66.51	-2.89	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-19.93	-4.61	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.89	-23.88	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.0	56.1	54.3	48.3	56.8	57.5			
Medium Trucks	52.0	50.5	44.1	42.8	51.0	51.3			
Heavy Trucks	53.5	51.9	42.8	44.1	52.4	52.8			
Vehicle Noise	60.0	56.3	55.0	50.5	59.0	59.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	18	40	68	195					
CNEL	20	43	82	198					

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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Walmart				
Road Name: Santiago Drive				Job Number: 8870				
Road Segment: East of Pennis Boulevard								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt):		7,038 vehicles		Autos:		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		701 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed:		40 mph						
Near/Far Lane Distance:		12 feet						
Site Data				Vehicle Mix				
Barrier Height:		0.0 feet		Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berrier):		0.0		Autos:	77.5%	12.9%	8.0%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet		Noise Source Elevations (in feet)				
Observer Height (above Pad):		5.0 feet		Autos:	0.000			
Pad Elevation:		0.0 feet		Medium Trucks:	2.287			
Road Elevation:		0.0 feet		Heavy Trucks:	8.006			
Road Grade:		0.0%		Grade Adjustment: 0.0				
Left View:		-90.0 degrees		Lane Equivalent Distances (in feet)				
Right View:		90.0 degrees		Autos:	88.945			
				Medium Trucks:	86.359			
				Heavy Trucks:	86.965			
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	88.51	-2.89	-4.62	-1.20	-4.77	0.000	0.000	
Medium Trucks	77.72	-20.22	-4.61	-1.20	-4.80	0.000	0.000	
Heavy Trucks	82.89	-24.18	-4.61	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	57.7	55.8	54.0	48.0	56.6	57.2		
Medium Trucks	51.7	50.2	43.8	42.3	50.7	51.0		
Heavy Trucks	53.0	51.6	42.5	43.0	52.2	52.3		
Vehicle Noise	59.7	58.0	54.7	50.2	57.7	56.1		
Centerline Distance to Noise Contour (in feet)								
				70 dBA	65 dBA	61 dBA	55 dBA	
Ldn				16	36	62	175	
CNEL				19	41	68	189	
Friday, November 08, 2013								

Scenario: Year 2035 Without Project				Project Name: Moreno Valley Valmart			
Road Name: Iris Avenue				Job Number: 8870			
Road Segment: East of Ferns Boulevard							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 26,318 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 2,632 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet							
Site Data				Vehicle Type Day Evening Night Daily			
Barrier Height: 0.0 feet				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Observer: 100.0 feet				Noise Source Elevations (in feet)			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet				Autos: 0.000			
Pad Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Elevation: 0.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Road Grade: 0.0%				Lane Equivalent Distance (in feet)			
Left View: -90.0 degrees							
Right View: 90.0 degrees				Autos: 38.494			
				Medium Trucks: 89.404			
				Heavy Trucks: 89.413			
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	1.36	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-15.96	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-19.81	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.4	65.6	63.8	57.7	66.3	66.9	
Medium Trucks	69.8	59.3	59.0	51.4	59.9	60.1	
Heavy Trucks	69.8	59.4	59.4	51.7	60.0	60.1	
Vehicle Noise	68.0	67.3	64.3	58.4	58.0	59.5	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	73	158	341	784			
CNEL	79	170	366	768			

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Iris Avenue					Job Number: 8870				
Road Segment: West of Kitching Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 31,148 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,115 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Fard): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 38.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	2.11	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.19	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-19.08	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.7	66.3	64.5	58.5	67.1	67.7			
Medium Trucks	61.6	60.1	59.7	52.1	60.8	60.9			
Heavy Trucks	61.6	60.2	51.1	52.4	60.7	60.8			
Vehicle Noise	59.8	59.0	55.0	60.2	60.7	60.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	82	177	381	821					
CNEL	88	190	410	883					

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Valmart				
Road Name: Iris Avenue					Job Number: 8870				
Road Segment: East of Kitching Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 40,784 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,078 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0=Wall, 1=Barrier): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Road): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 87.316				
Road Grade: 0.0%					Medium Trucks: 87.214				
Left View: -80.0 degrees					Heavy Trucks: 87.224				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.38	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.99	-3.73	-1.20	-4.85	0.000	0.000		
Heavy Trucks	86.40	-17.81	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.1	68.2	66.5	60.4	69.0	69.6			
Medium Trucks	63.5	62.0	55.8	54.1	62.6	62.8			
Heavy Trucks	63.6	62.1	53.1	54.3	62.7	62.8			
Vehicle Noise	71.7	69.9	67.0	62.1	70.7	71.1			
Centerline Distance to Noise Contour (in feet)									
				70 dBA	65 dBA	60 dBA	55 dBA		
Ldn				111	238	414	1,183		
CNEL				119	257	553	1,182		
Friday, November 08, 2013									

Scenario: Year 2035 Without Project Road Name: Karamenia Avenue Road Segment: West of Pennis Boulevard					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,963 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 1,299 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000				
Medium Trucks: 2.287									
Heavy Trucks: 8.006 Grade Adjustment: 0.0									
Lane Equivalent Distance (in feet)									
Autos: 39.945									
Medium Trucks: 89.856									
Heavy Trucks: 89.885									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	68.51	-0.44	-4.62	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	77.72	-17.68	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	82.98	-21.63	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNELL			
Autos	89.3	58.4	59.6	55.6	58.2	58.8			
Medium Trucks	54.2	52.7	49.4	44.8	53.3	53.5			
Heavy Trucks	55.8	54.1	45.1	46.3	54.7	54.9			
Vehicle Noise	62.3	60.5	57.3	52.7	61.2	61.7			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 26 96 121 261									
CNELL: 28 90 130 278									

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Scenario: Year 2035 Without Project Road Name: Karamenia Avenue Road Segment: East of Pennis Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 10,428 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,843 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 83.494				
Road Grade: 0.0%					Medium Trucks: 68.404				
Left View: -90.0 degrees					Heavy Trucks: 59.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-3.87	-4.52	-1.20	-4.77	0.006	0.000		
Medium Trucks	82.40	-17.80	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-21.86	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNELL			
Autos	65.4	63.5	61.7	55.7	64.3	64.9			
Medium Trucks	58.8	57.3	50.9	49.4	57.8	58.1			
Heavy Trucks	58.6	57.4	46.4	43.8	58.0	58.1			
Vehicle Noise	67.0	65.2	62.3	57.4	65.9	65.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	54	115	249	538					
CNELL	58	124	268	577					

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Scenario: Year 2035 Without Project Road Name: Harley Knox Boulevard Road Segment: West of Webster Avenue				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 59,039 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,600 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph				Vehicle Mix				
Near/Far Lane Distance: 24 feet				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%				
				Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet				Noise Source Elevations (in feet)				
Barrier Type (0-Wall, 1-Berm): 0.0				Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 2.287				
Centerline Dist. to Observer: 0.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Observer Height (above Pad): 5.0 feet				Lane Equivalent Distances (in feet)				
Pad Elevation: 0.0 feet				Autos: 35.403				
Road Elevation: 0.0 feet				Medium Trucks: 86.314				
Road Grade: 0.0%				Heavy Trucks: 95.323				
Left View: -90.0 degrees								
Right View: 90.0 degrees								
FHWA Noise Abol Calculations								
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	88.46	-3.88	-4.59	-1.20	-4.77	0.000	0.000	
Medium Trucks	78.46	-13.28	-4.57	-1.20	-4.80	0.000	0.000	
Heavy Trucks	84.25	-17.23	-4.57	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNELL		
Autos	68.8	54.7	63.0	58.8	65.5	68.1		
Medium Trucks	60.4	59.8	52.5	51.0	58.4	59.7		
Heavy Trucks	61.2	59.8	52.0	50.4	59.4	60.5		
Vehicle Noise	69.5	59.7	53.6	52.6	61.4	67.8		
Centerline Distance to Noise Contour (in feet)								
		70 dBA	65 dBA	61 dBA	55 dBA			
Ldn	86	146	214	275				
CNELL	73	156	237	315				

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Valmart				
Road Name: Indian Street					Job Number: 3870				
Road Segment: North of Cottonwood Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,510 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,257 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.945				
Road Grade: 0.0%					Medium Trucks: 89.856				
Left View: -90.0 degrees					Heavy Trucks: 89.885				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	88.51	-1.97	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-17.68	-4.61	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.98	-21.64	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	89.3	58.4	59.6	55.6	58.2	58.6			
Medium Trucks	54.2	52.7	48.4	44.6	53.3	53.9			
Heavy Trucks	55.5	54.1	45.1	46.3	54.7	55.0			
Vehicle Noise	62.3	60.5	57.3	52.7	61.2	61.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	26	96	121	260					
CNCEL	28	90	129	278					

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Indian Street					Job Number: 8870				
Road Segment: North of Alessandro Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 15,367 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,506 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet					Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos: 89.484				
Right View: 90.0 degrees					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-1.94	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-18.27	-4.61	-1.20	-4.89	0.000	0.000		
Heavy Trucks	68.40	-22.23	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.0	63.1	61.4	55.3	63.8	84.5			
Medium Trucks	58.4	56.9	50.5	49.0	57.5	57.7			
Heavy Trucks	58.5	57.0	46.0	49.2	57.8	57.7			
Vehicle Noise	56.6	54.0	51.9	57.0	55.8	55.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	51	108	235	508					
CNCEL	54	117	253	545					

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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Walmart				
Road Name: Indian Street				Job Number: 8870				
Road Segment: North of Cactus Avenue								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt):		17,785 vehicles		Autos:		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		1,778 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed:		55 mph						
Near/Far Lane Distance:		36 feet						
Site Data				Vehicle Mix				
Barrier Height:		0.0 feet		Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berry):		0.0		Autos:	77.5%	12.8%	8.0%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:	94.8%	4.8%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet		Noise Source Elevations (in feet)				
Observer Height (above Pad):		5.0 feet		Autos:	0.000			
Pad Elevation:		0.0 feet		Medium Trucks:	2.287			
Road Elevation:		0.0 feet		Heavy Trucks:	8.006 Grade Adjustment: 0.0			
Road Grade:		0.0%		Lane Equivalent Distance (in feet)				
Left View:		-90.0 degrees		Autos:	39.454			
Right View:		90.0 degrees		Medium Trucks:	86.404			
				Heavy Trucks:	86.413			
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.76	-3.32	-4.62	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	62.40	-17.56	-4.61	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	68.40	-21.62	-4.61	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	65.7	63.8	62.1	56.0	64.6	65.2		
Medium Trucks	59.1	57.5	51.3	49.7	58.2	59.4		
Heavy Trucks	59.2	57.7	49.7	53.0	59.3	59.4		
Vehicle Noise	57.3	55.6	52.6	57.7	66.3	66.8		
Centerline Distance to Noise Contour (in feet)								
		70 dBA		65 dBA		61 dBA		55 dBA
Ldn		96		123		263		486
CNEL		61		131		282		868

Friday, November 08, 2013

Highway 70 Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Year 2035 Without Project Road Name: Indian Street Road Segment: North of Krameria Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,905 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,260 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 -2.44 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 77.72 -17.87 -4.61 -1.20 -4.80 0.000 0.000 Heavy Trucks: 82.98 -21.63 -4.61 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Leq Ln CNEL Autos: 69.3 58.4 59.6 56.6 58.2 58.8 Medium Trucks: 54.2 52.7 48.4 53.3 53.5 Heavy Trucks: 55.8 54.1 45.1 48.3 54.7 54.8 Vehicle Noise: 62.3 60.5 57.0 52.7 61.2 61.7					Autos: 39.945 Medium Trucks: 80.956 Heavy Trucks: 89.885				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
Leq: 26 96 121 261 CNEL: 28 90 130 278					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 69.51 -1.18 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 77.72 -16.08 -4.61 -1.20 -4.80 0.000 0.000 Heavy Trucks: 82.98 -20.03 -4.61 -1.20 -5.16 0.000 0.000				

Friday, November 08, 2013

Highway 70 Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Year 2035 Without Project Road Name: Indian Street Road Segment: South of Krameria Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,200 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,820 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 69.51 -1.18 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 77.72 -16.08 -4.61 -1.20 -4.80 0.000 0.000 Heavy Trucks: 82.98 -20.03 -4.61 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Leq Ln CNEL Autos: 61.8 60.0 58.2 52.1 60.8 61.4 Medium Trucks: 55.8 54.3 48.4 45.4 54.9 55.1 Heavy Trucks: 57.2 55.7 46.7 47.9 58.3 58.4 Vehicle Noise: 60.9 62.1 58.9 54.3 62.8 63.0					Autos: 39.945 Medium Trucks: 80.956 Heavy Trucks: 89.885				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
Leq: 33 72 153 333 CNEL: 38 77 188 357					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -3.41 -3.74 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -13.83 -3.73 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -17.78 -3.73 -1.20 -5.16 0.000 0.000				

Friday, November 08, 2013

Highway 70 Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Year 2035 Without Project Road Name: Indian Street Road Segment: South of Harley Knick Boulevard					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 29,630 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,950 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -1.68 -4.52 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -15.38 -4.51 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -18.92 -4.51 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Leq Ln CNEL Autos: 67.8 58.0 54.3 58.2 68.8 67.4 Medium Trucks: 61.3 59.8 53.5 51.9 60.4 60.6 Heavy Trucks: 61.4 59.9 50.3 52.2 60.5 60.6 Vehicle Noise: 68.5 67.0 64.0 59.6 60.5 60.6					Autos: 36.484 Medium Trucks: 86.404 Heavy Trucks: 96.413				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
Leq: 78 171 387 792 CNEL: 85 183 395 852					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -1.68 -4.52 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -15.38 -4.51 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -18.92 -4.51 -1.20 -5.16 0.000 0.000				

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Highway 70 Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Year 2035 Without Project Road Name: Perris Boulevard Road Segment: North of SR-80 V&B Ramps					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 54,005 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,400 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -4.50 -3.74 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -12.74 -3.73 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -16.66 -3.73 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Leq Ln CNEL Autos: 67.3 68.4 67.7 61.6 70.2 70.9 Medium Trucks: 64.7 69.2 58.8 55.3 63.8 64.0 Heavy Trucks: 64.8 69.4 54.3 55.6 63.9 64.0 Vehicle Noise: 72.8 71.2 68.2 63.3 71.9 72.4					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
Leq: 134 268 920 1,396 CNEL: 144 310 987 1,436					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -3.41 -3.74 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -13.83 -3.73 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -17.78 -3.73 -1.20 -5.16 0.000 0.000				

Friday, November 08, 2013

Highway 70 Noise Model Inputs (Hard = 10, Soft = 15)									
Scenario: Year 2035 Without Project Road Name: Perris Boulevard Road Segment: SR-80 V&B Ramps to Sunnymead Boulevard					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 42,300 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,200 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -3.41 -3.74 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -13.83 -3.73 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -17.78 -3.73 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Leq Ln CNEL Autos: 70.3 68.4 66.6 60.5 68.2 68.8 Medium Trucks: 63.6 62.1 55.8 54.2 62.7 62.9 Heavy Trucks: 63.7 62.3 52.2 54.5 62.8 63.0 Vehicle Noise: 71.8 70.1 67.1 62.2 70.8 71.3					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
Leq: 115 244 925 1,130 CNEL: 122 262 964 1,218					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 71.78 -3.41 -3.74 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -13.83 -3.73 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -17.78 -3.73 -1.20 -5.16 0.000 0.000				

Friday, November 08, 2013

Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Perris Boulevard					Job Number: 8870				
Road Segment: South of Sunnymead Boulevard									
SITE SPECIFIC INPUT DATA					SITE CONDITIONS (Hard = 10, Soft = 15)				
Highway Data					Site Conditions				
Average Daily Traffic (adt): 87,000 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,700 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 38 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle type: Day Evening Night Daily				
Barrier Type (0=Wall, 1=Barrier): 0.0					Autos: 77.5% 12.8% 8.5% 87.42%				
Centerline Dist to Barrier: 100.0 feet					Medium Trucks: 94.8% 4.6% 10.9% 1.94%				
Centerline Dist to Observer: 0.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Observer Height (above Road): 5.0 feet									
Elevation Offset: 0.0 feet					Noise Source Elevations (in feet)				
Road Elevation: 0.0 feet					Autos: 0.000				
Road Grade: 0%					Medium Trucks: 2.287				
Left View: -80.0 degrees					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Right View: 90.0 degrees									
FHWA Noise Abatement Calculations					Lane Equivalent Distances (in feet)				
Vehicle Type	REVEL	Traffic Flow	Distance	Finite Road	Freezead	Barrier Offset	Barrier Attenuation	Barrier Attenuation	
Autos	71.76	2.80	-4.51	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-13.34	-4.51	-1.20	-4.85	0.000	0.000	0.000	
Heavy Trucks	86.40	-17.30	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topog and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL			
Autos	70.0	68.1	68.3	60.2	68.8	68.5			
Medium Trucks	63.3	61.8	65.5	53.8	62.4	62.6			
Heavy Trucks	63.4	62.0	62.5	54.2	62.6	62.7			
Vehicle Noise	71.5	69.9	69.9	61.6	70.5	71.0			
Centerline Distances to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Leq	108	233	537	1,080					
CNEL	118	250	539	1,162					
Friday, November 08, 2013									

Scenario: Year 2035 Without Project Road Name: Fernis Boulevard Road Segment: North of Eucalyptus Avenue					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 45,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,500 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees									
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 99.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.91	-4.52	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-13.43	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-17.36	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.9	68.0	66.2	66.1	66.8	66.4			
Medium Trucks	63.3	61.7	59.4	58.8	62.3	62.5			
Heavy Trucks	63.3	61.8	59.8	59.9	62.4	62.6			
Vehicle Noise	71.4	69.7	66.7	61.9	70.4	70.9			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 108 229 484 1,065									
CNEL: 116 247 532 1,145									

Friday, November 6, 2013

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Scenario: Year 2035 Without Project Road Name: Fernis Boulevard Road Segment: South of Eucalyptus Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 52,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,200 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 89.484 Medium Trucks: 86.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.34	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.90	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-16.86	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.4	68.6	66.7	60.7	68.3	68.9			
Medium Trucks	63.8	62.3	59.9	54.4	62.8	63.1			
Heavy Trucks	63.6	62.4	59.4	54.8	63.0	63.1			
Vehicle Noise	72.0	70.2	67.3	62.4	70.8	71.4			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 116 248 538 1,155									
CNEL: 124 268 577 1,243									

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Friday, November 08, 2013

Scenario: Year 2035 Without Project Road Name: Perris Boulevard Road Segment: North of Cottonwood Avenue				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 50,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,000 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle/Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%				
				Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Ber): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distances (in feet) Autos: 98.494 Medium Trucks: 96.404 Heavy Trucks: 96.413				
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.76	4.17	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-13.07	-4.51	-1.20	-4.86	0.000	0.000	0.000
Heavy Trucks	86.40	-17.03	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	70.2	68.3	66.8	60.5	68.1	68.7		
Medium Trucks	63.6	62.1	59.7	54.2	62.7	62.9		
Heavy Trucks	63.7	62.2	59.2	54.4	62.6	62.6		
Vehicle Noise	71.9	70.0	67.1	62.2	70.6	71.2		
Centerline Distance to Noise Contour (in feet)								
70 dBA 65 dBA 60 dBA 55 dBA								
Ldn: 113 242 522 1,125								
CNEL: 121 261 562 1,211								

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2035 Without Project										Project Name: Moreno Valley Valmart									
Road Name: Fernis Boulevard										Job Number: 3870									
Road Segment: South of Cottonwood Avenue																			
SITE SPECIFIC INPUT DATA										NOISE MODEL INPUTS									
Highway Data										Site Conditions (Hard = 10, Soft = 15)									
Average Daily Traffic (ADT): 45,000 vehicles										Autos: 15									
Peak Hour Percentage: 10%										Medium Trucks (2 Axles): 15									
Peak Hour Volume: 4,500 vehicles										Heavy Trucks (3+ Axles): 15									
Vehicle Speed: 55 mph																			
Near/Far Lane Distance: 36 feet																			
Site Data										Vehicle Mix									
Barrier Height: 0.0 feet										Vehicle Type Day Evening Night Daily									
Barrier Type (0=Wall, 1=Berm): 0.0										Autos: 77.5% 12.9% 8.6% 87.42%									
Centerline Dist. to Barrier: 100.0 feet										Medium Trucks: 84.8% 4.9% 10.3% 1.84%									
Centerline Dist. to Observer: 100.0 feet										Heavy Trucks: 86.5% 2.7% 10.8% 0.74%									
Barrier Distance to Observer: 0.0 feet																			
Observer Height (Above Road): 5.0 feet																			
Road Elevation: 0.0 feet										Noise Source Elevations (in feet)									
Road Grade: 0.0%										Autos: 0.000									
Left View: -90.0 degrees										Medium Trucks: 2.287									
Right View: 90.0 degrees										Heavy Trucks: 8.006 Grade Adjustment: 0.0									
										Lane Equivalent Distance (in feet)									
										Autos: 98.494									
										Medium Trucks: 98.404									
										Heavy Trucks: 99.413									
FHWA Noise Model Calculations																			
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Att'n Berm Att'n																			
Autos 71.78 3.91 -4.5 -1.20 -4.77 0.000 0.000																			
Medium Trucks 82.40 -13.53 -4.51 -1.20 -4.80 0.000 0.000																			
Heavy Trucks 96.40 -17.48 -4.61 -1.20 -5.16 0.000 0.000																			
Unmitigated Noise Levels (without Topo and barrier attenuation)																			
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL																			
Autos 69.9 67.6 69.1 66.1 66.7 68.2																			
Medium Trucks 63.2 61.7 59.3 53.7 62.2 62.4																			
Heavy Trucks 63.2 61.8 52.7 54.0 62.3 62.5																			
Vehicle Noise: 71.3 69.6 66.6 61.9 70.3 70.5																			
Centerline Distance to Noise Contour (in feet)																			
70 dB(A) 65 dB(A) 60 dB(A) 55 dB(A)																			
Ldn: 135 228 467 1,048																			
CNEL: 113 243 524 1,128																			
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Scenario: Year 2035 Without Project Road Name: Fernis Boulevard Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 43,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,300 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15				
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 88.494 Medium Trucks: 88.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	3.51	-4.82	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-13.73	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-17.66	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.0	67.7	65.6	55.6	68.5	66.1	66.1		
Medium Trucks	63.0	61.6	55.1	53.5	62.0	62.2	62.2		
Heavy Trucks	63.0	61.6	52.5	53.8	62.1	62.3	62.3		
Vehicle Noise	71.2	69.4	66.4	61.6	70.1	70.6	70.6		
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn	102 219 472 1,018								
CNEL	108 239 508 1,095								

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Scenario: Year 2035 Without Project Road Name: Fernis Boulevard Road Segment: South of Cactus Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 48,900 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,800 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: Centerline Dist. to Observer: Barrier Distance to Observer: Observer Height (Above Pad): Pad Elevation: Road Elevation: Road Grade: Left View: Right View:					0.0 feet 0.0 feet 100.0 feet 100.0 feet 0.0 feet 5.0 feet 0.0 feet 0.0 feet 0.0% -90.0 degrees 90.0 degrees				
					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten									
Autos: 71.78 3.89 -3.74 -1.20 -4.77 0.006 0.000									
Medium Trucks: 82.40 -13.25 -3.73 -1.20 -4.59 0.006 0.000									
Heavy Trucks: 86.40 -17.20 -3.73 -1.20 -5.16 0.006 0.000									
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEqL									
Autos: 70.8 68.9 67.2 61.1 68.7 70.3									
Medium Trucks: 64.2 62.7 56.4 54.8 63.3 63.5									
Heavy Trucks: 64.5 62.8 55.9 55.1 63.4 63.5									
Vehicle Noise: 72.4 70.7 67.7 62.8 71.4 71.8									
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 124 266 573 1,236									
CNEqL: 133 296 617 1,328									

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Scenario: Year 2035 Without Project Road Name: Pernis Boulevard Road Segment: North of John F. Kennedy Drive				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 45,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,500 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle/Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%				
				Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Ber): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
				Lane Equivalent Distances (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.76	3.71	-3.74	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-13.53	-3.73	-1.20	-4.65	0.000	0.000	0.000
Heavy Trucks	86.40	-17.48	-3.73	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	70.8	68.7	66.8	60.8	69.6	70.1		
Medium Trucks	63.9	62.4	56.1	54.5	63.0	63.2		
Heavy Trucks	64.0	62.6	53.5	54.0	63.1	63.3		
Vehicle Noise	72.1	70.4	67.4	62.5	71.1	71.6		
Centerline Distance to Noise Contour (in feet)								

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Highway 70 Noise Model Inputs (Without Topography and Barrier Attenuation)									
Scenario: Year 2035 Without Project Road Name: Fernis Boulevard Road Segment: South of John F. Kennedy Drive					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 52,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,200 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Site Data									
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008				
					Lane Equivalent Distance (in feet)				
					Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	4.34	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.90	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-16.86	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.2	68.3	67.5	61.6	70.1	76.1			
Medium Trucks	84.8	63.1	58.7	55.2	63.8	69.3			
Heavy Trucks	84.8	63.2	54.2	55.4	63.9	69.3			
Vehicle Noise:	72.8	71.0	68.0	63.2	71.7	72.2			
Centerline Distance to Noise Contour (in feet)									
		70 dBA	65 dBA	60 dBA	55 dBA				
Left:	130	281	805	1,393					
CNEL:	140	302	861	1,402					

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Scenario: Year 2015 Without Project					Project Name: Moreno Valley Vismart				
Road Name: Ferris Boulevard					Job Number: 8870				
Road Segment: Driveway 3 to Driveway 4									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 47,000 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,700 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 89 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berry): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.94%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.6 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.6 feet					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 87.316				
					Medium Trucks: 87.214				
					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.90	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.34	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-17.30	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.7	68.8	67.1	61.0	68.6	70.3			
Medium Trucks	84.1	82.8	80.9	64.7	83.2	83.4			
Heavy Trucks	84.2	82.8	80.7	65.0	83.2	83.4			
Vehicle Noise	72.3	70.6	67.6	62.7	71.3	71.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	122	262	565	1,218					
CNCEL	131	262	608	1,311					

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Ferris Boulevard					Job Number: 8870				
Road Segment: Driveway 4 to Santiago Drive									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 47,000 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,700 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 98 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					VehicleType	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Furg): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.297				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 87.316				
					Medium Trucks: 87.214				
					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.90	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.34	-3.73	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-17.30	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.7	68.8	67.1	61.0	68.6	70.3			
Medium Trucks	84.1	82.8	80.9	64.7	83.2	83.4			
Heavy Trucks	84.2	82.8	80.7	65.0	83.3	83.4			
Vehicle Noise	72.3	70.6	67.6	62.7	71.3	71.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	122	262	565	1,218					
CNCEL	131	262	608	1,311					

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Scenario: Year 2015 Without Project				Project Name: Moreno Valley Walmart			
Road Name: Perris Boulevard				Job Number: 8870			
Road Segment: Santiago Drive to Iris Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 50,287 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 5,030 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 90 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.9% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.8% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berry): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 87.316			
Road Grade: 0.0%				Medium Trucks: 87.214			
Left View: -80.0 degrees				Heavy Trucks: 87.224			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	4.18	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-13.05	-3.73	-1.20	-4.85	0.000	0.000
Heavy Trucks	86.40	-17.03	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	71.0	69.1	67.4	61.3	69.8	70.5	
Medium Trucks	84.4	82.8	80.6	65.0	83.5	83.7	
Heavy Trucks	84.5	83.0	81.0	65.3	83.6	83.7	
Vehicle Noise	72.6	70.9	67.9	63.6	71.6	72.1	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	72.7	276	502	1,276			
CNEL	137	285	498	1,371			

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Scenario: Year 2035 Without Project Road Name: Ferris Boulevard Road Segment: North of San Michele Road					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 50,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,000 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	4.17	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.07	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-17.03	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.0	68.1	67.3	61.3	68.9	76.5			
Medium Trucks	84.4	62.8	58.5	55.0	63.5	63.7			
Heavy Trucks	84.4	63.0	54.0	55.2	63.9	63.7			
Vehicle Noise	72.6	70.8	67.8	63.0	71.6	72.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	127	274	585	1,270					
CNEL	137	284	634	1,396					

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Scenario: Year 2035 Without Project Road Name: Ferris Boulevard Road Segment: San Michele Road to Nandina Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 55,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,500 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 90 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	4.50	-3.74	-1.20	-4.77	0.006	0.000		
Medium Trucks	82.40	-12.96	-3.73	-1.20	-4.89	0.006	0.000		
Heavy Trucks	86.40	-16.81	-3.73	-1.20	-5.16	0.006	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.4	68.5	67.8	61.7	70.3	70.9			
Medium Trucks	84.8	63.3	58.9	55.4	63.9	64.1			
Heavy Trucks	84.6	63.4	54.4	55.8	64.0	64.1			
Vehicle Noise	72.0	71.2	68.3	63.4	72.0	72.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	135	291	628	1,353					
CNEL	148	314	678	1,455					

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Scenario: Year 2035 Without Project Road Name: Perris Boulevard Road Segment: South of Nandina Avenue				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 53,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,300 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 98 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15			
Site Data				Vehicle Mix			
				Vehicle Type	Day	Evening	Night
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Autos: 77.5% 12.9% 8.0% 87.42% Medium Trucks: 84.8% 4.8% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
				Noise Source Elevations (in feet)			
				Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0			
				Lane Equivalent Distances (in feet)			
				Autos: 87.316 Medium Trucks: 87.214 Heavy Trucks: 87.224			
FHWA Noise Abol Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.76	4.42	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-12.82	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-16.77	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	71.3	69.4	67.8	61.5	70.2	70.8	
Medium Trucks	84.7	63.2	58.8	55.2	63.7	63.9	
Heavy Trucks	84.7	63.3	54.2	55.5	63.6	64.0	
Vehicle Noise	72.0	71.1	68.1	63.0	71.6	72.0	
Centerline Distance to Noise Contour (in feet)							
	70 dBA		65 dBA		60 dBA		55 dBA
Ldn	132		284		613		1,320
CNEL	142		306		659		1,420
Friday, November 08, 2013							

Scenario: Year 2035 Without Project Road Name: Ferris Boulevard Road Segment: North of Harley Kiser Boulevard					Project Name: Moreno Valley Walmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 53,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 5,300 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 24 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Site Data									
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet) Autos: 93.403 Medium Trucks: 88.314 Heavy Trucks: 89.322				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	68.48	5.25	-4.68	-1.20	-4.77	0.000	0.000		
Medium Trucks	78.45	-11.95	-4.57	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-15.90	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.0	64.3	63.5	58.3	66.9	67.5			
Medium Trucks	81.7	60.2	53.8	52.3	60.8	61.0			
Heavy Trucks	82.6	61.2	52.1	53.4	61.7	61.8			
Vehicle Noise	68.8	69.1	64.8	60.2	68.8	69.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	93	179	385	829					
CNEL	89	162	413	868					
Friday, November 08, 2013									

Scenario: Year 2035 Without Project Road Name: Ferris Boulevard Road Segment: South of Ramona Expressway					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 31,000 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 3,100 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 80 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
					Vehicle Mix				
					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.94% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Site Data					Noise Source Elevations (in feet)				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distances (in feet)				
					Autos: 37.316 Medium Trucks: 87.214 Heavy Trucks: 97.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	Berm Att'n	
Autos	77.5%	17.78	-2.06	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-15.15	-3.73	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-19.10	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.8	67.0	65.2	58.2	67.8	66.4			
Medium Trucks	62.3	60.8	58.5	52.9	61.4	61.6			
Heavy Trucks	62.4	60.8	51.8	53.2	61.5	61.6			
Vehicle Noise	70.5	68.0	65.0	60.9	68.5	70.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	92	169	426	923					
CNCEL	89	214	481	962					

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Scenario: Year 2035 Without Project										Project Name: Moreno Valley Walmart			
Road Name: Kitching Street										Job Number: 8870			
Road Segment: North of Cactus Avenue													
SITE SPECIFIC INPUT DATA						NOISE MODEL INPUTS							
Highway Data						Site Conditions (Hard = 10, Soft = 15)							
Average Daily Traffic (ADT): 17,130 vehicles						Autos: 15							
Peak Hour Percentage: 10%						Medium Trucks (2 Axles): 15							
Peak Hour Volume: 1,713 vehicles						Heavy Trucks (3+ Axles): 15							
Vehicle Speed: 55 mph													
Near/Far Lane Distance: 36 feet													
Site Data						Vehicle Mix							
						Vehicle Type	Day	Evening	Night	Daily			
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees						Autos: 77.5% 12.9% 8.5% 87.42%							
						Medium Trucks: 84.8% 4.9% 10.3% 1.84%							
						Heavy Trucks: 86.5% 2.7% 10.8% 0.74%							
FHWA Noise Model Calculations						Noise Source Elevations (in feet)							
						Autos: 0.000 Medium Trucks: 2.297 Heavy Trucks: 8.006 Grade Adjustment: 0.0							
Unmitigated Noise Levels (without Topo and barrier attenuation)						Lane Equivalent Distance (in feet)							
						Autos: 39.494 Medium Trucks: 68.404 Heavy Trucks: 89.413							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n						
Autos	77.5%	17.78	-3.48	-1.20	-4.77	0.000	0.000						
Medium Trucks	62.40	-17.72	-4.51	-1.20	-4.80	0.000	0.000						
Heavy Trucks	68.40	-21.88	-4.51	-1.20	-5.16	0.000	0.000						
Unmitigated Noise Levels (without Topo and barrier attenuation)													
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL							
Autos	65.6	63.7	61.8	55.9	64.5	65.1							
Medium Trucks	58.0	57.5	51.1	49.6	58.0	58.2							
Heavy Trucks	58.0	57.8	48.5	49.8	58.1	58.3							
Vehicle Noise	67.2	65.4	62.4	57.5	68.1	68.6							
Centerline Distance to Noise Contour (in feet)													
	70 dBA	65 dBA	60 dBA	55 dBA									
Ldn	55	118	250	551									
CNCEL	58	126	275	593									
Friday, November 08, 2013													

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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Walmart			
Road Name: Kitching Street				Job Number: 8870			
Road Segment: South of Cactus Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 17,235 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,724 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 40 mph							
Near/Far Lane Distance: 12 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				VehicleType Day Evening Night Daily			
Barrier Type (0=Wall, 1=Berry): 0.0				Autos: 77.5% 12.9% 8.5% 87.42%			
Centerline Dist to Observer: 100.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist to Barrier: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (Above Pad): 5.0 feet							
Pad Elevation: 0.0 feet				Noise Source Elevations (in feet)			
Road Elevation: 0.0 feet				Autos: 0.000			
Road Grade: 0.0%				Medium Trucks: 2.287			
Left View: -90.0 degrees				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Right View: 90.0 degrees							
				Lane Equivalent Distance (in feet)			
				Autos: 35.945			
				Medium Trucks: 86.855			
				Heavy Trucks: 95.965			
FHWA Noise Model Calculations							
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	86.51	0.02	-4.82	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-18.31	-4.91	-1.20	-4.85	0.000	0.000
Heavy Trucks	92.98	-20.27	-4.81	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	61.8	59.7	58.0	51.8	60.5	61.1	
Medium Trucks	55.6	54.1	47.7	48.2	54.6	54.8	
Heavy Trucks	59.9	55.5	48.5	47.7	56.1	56.2	
Vehicle Noise	63.6	61.9	59.6	54.1	62.6	63.1	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	32	88	149	321			
CNEL	34	74	150	344			

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Scenario: Year 2035 Without Project Road Name: Kitching Street Road Segment: North of John F. Kennedy Drive					Project Name: Moreno Valley Vamart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 18,943 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,894 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.008 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 39.945 Medium Trucks: 98.956 Heavy Trucks: 99.985				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	68.51	1.47	-4.62	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	77.72	-15.77	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	82.98	-19.72	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	82.2	80.5	58.5	52.4	61.1	61.1			
Medium Trucks	58.1	54.8	49.3	48.7	56.2	56.4			
Heavy Trucks	57.5	56.0	47.0	48.3	56.6	56.6			
Vehicle Noise	64.2	62.4	58.2	54.6	63.2	63.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	35	75	162	350					
CNCEL	37	81	174	374					

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Noise Model Inputs and Results - Highway Data	
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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Kitching Street					Job Number: 3870				
Road Segment: South of Iris Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,750 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,279 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph									
Near/Far Lane Distance: 36 feet									
					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Site Data					Autos	77.5%	12.9%	8.6%	67.42%
Barrier Height: 0.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos	0.000			
Barrier Distance to Observer: 0.0 feet					Medium Trucks	2.287			
Observer Height (Above Pad): 5.0 feet					Heavy Trucks	8.008 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos	98.494			
Road Grade: 0.0%					Medium Trucks	98.404			
Left View: -60.0 degrees					Heavy Trucks	98.413			
Right View: 60.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	88.48	1.93	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	79.45	-15.81	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	84.25	-19.57	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	84.4	62.6	60.7	54.6	63.9	63.9			
Medium Trucks	58.1	58.8	50.3	48.7	57.2	57.4			
Heavy Trucks	58.0	57.5	48.5	48.8	58.1	58.2			
Vehicle Noise	66.2	64.5	61.3	56.6	65.2	65.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	48	103	221	417					
CNEL	51	110	237	511					

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Scenario: Year 2035 Without Project					Project Name: Moreno Valley Walmart				
Road Name: Lassalle Street					Job Number: 8870				
Road Segment: North of Iris Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 29,380 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,938 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm):					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet									
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.287				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet									
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos: 89.484				
Right View: 90.0 degrees					Medium Trucks: 66.404				
					Heavy Trucks: 98.413				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.99	-4.52	-1.20	-4.77	0.006	0.000		
Medium Trucks	82.40	-15.38	-4.51	-1.20	-4.89	0.006	0.000		
Heavy Trucks	88.40	-19.94	-4.51	-1.20	-5.16	0.006	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.8	66.0	64.3	58.2	66.8	67.4			
Medium Trucks	61.3	58.8	53.4	51.9	60.4	60.8			
Heavy Trucks	61.5	58.9	50.9	52.1	60.5	60.8			
Vehicle Noise	66.5	67.7	64.8	59.8	68.5	68.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	79	170	368	780					
CNEL	85	183	394	849					

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Scenario: Year 2035 Without Project				Project Name: Moreno Valley Walmart				
Road Name: Lasalle Street				Job Number: 8870				
Road Segment: South of Iris Avenue								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 35,230 vehicles				Autos: 15				
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,520 vehicles				Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph								
Near/Far Lane Distance: 36 feet								
				Vehicle Mix				
				Vehicle/Type	Day	Evening	Night	Daily
Autos: 77.5%				Autos:	77.5%	12.9%	8.9%	87.42%
Medium Trucks: 94.8%				Medium Trucks:	94.8%	4.9%	10.3%	1.84%
Heavy Trucks: 86.5%				Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Height: 0.0 feet				Noise Source Elevations (in feet)				
Barrier Type (0-Wall, 1-Berry): 0.0				Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet				Medium Trucks: 2.287				
Centerline Dist. to Observer: 100.0 feet				Heavy Trucks: 8.006				
Barrier Distance to Observer: 0.0 feet				Grade Adjustment: 0.0				
Observer Height (above Pad): 5.0 feet								
Pad Elevation: 0.0 feet								
Road Elevation: 0.0 feet								
Road Grade: 0.0%								
Left View: -90.0 degrees								
Right View: 90.0 degrees								
				Lane Equivalent Distances (in feet)				
				Autos: 98.494				
				Medium Trucks: 96.404				
				Heavy Trucks: 96.413				
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.76	2.64	-4.52	-1.20	-4.77	0.000	0.000	
Medium Trucks	82.40	-14.60	-4.51	-1.20	-4.86	0.000	0.000	
Heavy Trucks	98.40	-18.55	-4.51	-1.20	-5.16	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	68.7	66.8	65.0	59.0	67.6	68.2		
Medium Trucks	62.1	60.5	54.2	52.7	61.1	61.4		
Heavy Trucks	62.1	60.7	51.7	52.9	61.3	61.4		
Vehicle Noise	70.3	69.5	65.6	60.7	69.2	69.7		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	88	129	413	851				
CNEL	98	206	445	958				

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Year 2035 With Project - Noise Model Inputs									
Scenario: Year 2035 With Project Road Name: Sunnymead Boulevard Road Segment: Perris Boulevard to SR-60 EB On-Ramp					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 28,995 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,910 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 98.494 Medium Trucks: 98.404 Heavy Trucks: 98.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	1.92	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.42	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	88.40	-19.38	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	81.9	69.6	64.2	56.2	66.8	67.7			
Medium Trucks	91.3	59.6	53.4	51.6	60.3	60.9			
Heavy Trucks	91.3	59.8	53.8	52.1	60.5	60.9			
Vehicle Noise:	69.2	67.7	64.7	59.9	68.4	69.3			
Centerline Distance to Noise Contour (in feet)									
				70 dBA	65 dBA	60 dBA	55 dBA		
Left:				78	169	364	754		
CNEL:				84	182	392	944		

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Scenario: Year 2035 With Project Road Name: Cottonwood Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,145 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,315 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Pad): 5.0 feet					Medium Trucks: 2.287				
Pad Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 39.403				
Left View: -60.0 degrees					Medium Trucks: 89.314				
Right View: 60.0 degrees					Heavy Trucks: 89.923				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	89.48	-2.78	-4.88	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	79.45	-16.00	-4.57	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	84.25	-21.96	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	81.8	60.0	58.2	52.2	60.8	61.4			
Medium Trucks	55.7	54.2	47.8	48.3	54.7	55.0			
Heavy Trucks	55.5	55.1	46.1	47.3	55.7	55.8			
Vehicle Noise	63.8	62.0	56.8	54.2	62.7	63.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	93	71	152	307					
CNCEL	35	76	183	351					

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Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart				
Road Name: Cottonwood Avenue					Job Number: 8870				
Road Segment: West of Peris Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,396 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,010 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph									
Near/Far Lane Distance: 24 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					VehicleType	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos:	77.5%	12.9%	6.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 39.403				
					Medium Trucks: 69.314				
					Heavy Trucks: 99.323				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	69.48	1.00	-4.56	-1.20	-4.77	0.006	0.000	0.000	
Medium Trucks	78.45	-16.16	-4.57	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	84.25	-20.11	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	63.8	61.8	60.1	54.0	62.7	83.3			
Medium Trucks	57.5	56.0	48.6	49.1	56.8	56.8			
Heavy Trucks	56.4	56.9	47.9	49.2	57.5	57.8			
Vehicle Noise	55.6	53.9	50.7	50.0	54.8	55.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	43	94	302	434					
CNCEL	47	94	215	486					
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Scenario: Year 2035 With Project Road Name: Cottonwood Avenue Road Segment: East of Peris Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 18,182 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,818 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 40 mph					Vehicle Mix				
Near/Far Lane Distance: 12 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.5% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distances (in feet)				
Road Elevation: 0.0 feet					Autos: 35.945				
Road Grade: 0.0%					Medium Trucks: 86.261				
Left View: -90.0 degrees					Heavy Trucks: 95.955				
Right View: 90.0 degrees									
FHWA Noise Abol Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	86.51	-1.18	-4.83	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	77.72	-18.09	-4.81	-1.20	-4.85	0.000	0.000	0.000	
Heavy Trucks	82.86	-20.03	-4.81	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	61.8	50.0	58.2	57.1	60.8	61.4			
Medium Trucks	55.8	54.3	48.0	47.9	54.8	55.1			
Heavy Trucks	57.1	55.7	46.7	47.9	56.3	56.4			
Vehicle Noise	63.3	62.1	53.9	54.3	62.6	63.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	32	72	155	333					
CNCEL	38	77	158	357					

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Scenario: Year 2035 With Project Road Name: Alessandro Boulevard Road Segment: East of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 43,096 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 4,310 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 90 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 37.316			
Road Grade: 0.0%				Medium Trucks: 87.214			
Left View: -90.0 degrees				Heavy Trucks: 97.224			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	3.52	-2.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-13.72	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-17.67	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL	
Autos	70.4	68.6	66.7	64.6	68.3	68.9	
Medium Trucks	83.8	82.3	80.9	78.9	82.8	83.0	
Heavy Trucks	83.8	82.4	81.3	79.4	83.9	84.1	
Vehicle Noise	71.8	70.2	67.2	62.4	70.9	71.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	115	248	534	1,150			
CNSEL	124	267	574	1,237			

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Scenario: Year 2035 With Project Road Name: Alessandro Boulevard Road Segment: West of Petris Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 43,096 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,310 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 90 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm):					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet									
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	3.52	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.72	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-17.67	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	70.4	68.6	66.7	64.6	68.3	68.9			
Medium Trucks	83.8	82.3	80.9	78.9	82.8	83.0			
Heavy Trucks	85.6	82.4	81.3	79.4	83.9	84.1			
Vehicle Noise	71.9	70.2	67.2	62.4	70.9	71.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	115	248	534	1,150					
CNSEL	124	267	574	1,237					

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Scenario: Year 2035 With Project Road Name: Alessandro Boulevard Road Segment: East of Parris Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt):		48,088 vehicles		Autos:		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		4,810 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed:		55 mph		Vehicle Mix				
Near/Far Lane Distance:		36 feet						
Site Data				Vehicle Type				
Barrier Height:		0.0 feet		Autos:	77.5%	12.9%	8.0%	87.42%
Barrier Type (0-Wall, 1-Berm):		0.0		Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Barrier:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Centerline Dist. to Observer:		100.0 feet		Noise Source Elevations (in feet)				
Barrier Distance to Observer:		0.0 feet						
Observer Height (above Pad):		5.0 feet		Autos:	0.000			
Pad Elevation:		0.0 feet		Medium Trucks:	2.287			
Road Elevation:		0.0 feet		Heavy Trucks:	8.006			
Road Grade:		0.0%		Grade Adjustment: 0.0				
Left View:		-90.0 degrees		Lane Equivalent Distances (in feet)				
Right View:		90.0 degrees						
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.78	3.61	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-13.42	-4.51	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.40	-17.38	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	69.9	68.0	66.2	64.2	68.8	69.4		
Medium Trucks	83.3	81.8	80.4	78.3	82.3	82.5		
Heavy Trucks	83.3	81.9	80.8	78.4	83.4	83.6		
Vehicle Noise	71.5	69.7	66.7	61.6	70.4	70.6		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	107	230	495	1,088				
CNEL	115	247	532	1,147				

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Highway 101 - West of

Scenario: Year 2035 With Project					Project Name: Moreno Valley Valmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: West of Elsworth Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 63,400 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 6,340 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 38.494				
					Medium Trucks: 89.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	Berm Atten	
Autos	71.78	3.20	-4.82	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-12.04	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-16.06	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.3	68.4	67.6	61.6	70.2	76.8			
Medium Trucks	84.8	69.1	68.8	65.2	83.7	83.9			
Heavy Trucks	84.7	69.0	64.2	65.5	83.9	84.0			
Vehicle Noise	72.8	71.1	68.1	63.2	71.0	72.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	132	264	612	1,318					
CNCEL	142	308	656	1,416					

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Year 2035 With Project - Moreno Valley Valmart									
Scenario: Year 2035 With Project Road Name: Cactus Avenue Road Segment: East of Elsworth Street					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 59,450 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,945 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.297				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 87.219				
FHWA Noise Model Calculations					Medium Trucks: 67.214				
					Heavy Trucks: 67.224				
Vehicle Type RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten									
Autos 71.78 4.89 -3.74 -1.20 -4.77 0.000 0.000									
Medium Trucks 82.40 -12.39 -3.73 -1.20 -4.59 0.000 0.000									
Heavy Trucks 86.40 -16.36 -3.73 -1.20 -5.16 0.000 0.000									
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL									
Autos 71.7 68.8 68.0 62.0 70.5 71.2									
Medium Trucks 85.1 69.8 67.2 65.7 84.1 84.4									
Heavy Trucks 85.1 65.7 64.7 65.9 84.3 84.4									
Vehicle Noise 73.3 71.5 68.8 63.7 72.2 72.7									
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn 141 304 854 1,409									
CNEL 152 327 704 1,516									

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Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart								
Road Name: Cactus Avenue					Job Number: 8870								
Road Segment: West of Frederick Street													
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS								
Highway Data					Site Conditions (Hard = 10, Soft = 15)								
Average Daily Traffic (ADT): 60,581 vehicles					Autos: 15								
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15								
Peak Hour Volume: 6,058 vehicles					Heavy Trucks (3+ Axles): 15								
Vehicle Speed: 55 mph					Vehicle Mix								
Near/Far Lane Distance: 98 feet					VehicleType					Day	Evening	Night	Daily
Site Data					Autos: 77.5%					12.9%	8.6%	87.42%	
Barrier Height: 0.0 feet					Medium Trucks: 84.8%					4.9%	10.3%	1.84%	
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5%					2.7%	10.8%	0.74%	
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)								
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000								
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287								
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006					Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)								
Road Elevation: 0.0 feet					Autos: 87.316								
Road Grade: 0.0%					Medium Trucks: 87.214								
Left View: -90.0 degrees					Heavy Trucks: 87.224								
Right View: 90.0 degrees													
FHWA Noise Model Calculations													
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten						
Autos	71.78	3.60	-3.74	-1.20	-4.77	0.000	0.000						
Medium Trucks	82.40	-12.24	-3.73	-1.20	-4.65	0.000	0.000						
Heavy Trucks	86.40	-16.19	-3.73	-1.20	-5.16	0.000	0.000						
Unmitigated Noise Levels (without Topo and barrier attenuation)													
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL							
Autos	71.8	69.8	68.2	62.1	70.7	71.4							
Medium Trucks	85.2	83.7	81.4	75.9	84.3	84.5							
Heavy Trucks	85.3	82.9	84.0	84.0	84.4	84.5							
Vehicle Noise	73.4	71.7	68.7	63.6	72.4	72.6							
Centerline Distance to Noise Contour (in feet)													
	70 dBA	65 dBA	60 dBA	55 dBA									
Ldn	144	311	670	1,443									
CNCEL	155	334	721	1,552									

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2035 With Project				Project Name: Moreno Valley Walmart			
Road Name: Cactus Avenue				Job Number: 3870			
Road Segment: West of Heacock Street							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 50,766 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 5,077 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 80 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 37.316			
Road Grade: 0.0%				Medium Trucks: 87.214			
Left View: -90.0 degrees				Heavy Trucks: 97.224			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.76	4.52	-1.24	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-13.00	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-18.96	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	71.1	68.2	67.4	61.4	70.6	76.8	
Medium Trucks	84.5	69.0	68.8	65.1	83.5	83.8	
Heavy Trucks	84.5	69.1	64.0	65.3	83.7	83.8	
Vehicle Noise	72.7	70.8	67.8	63.1	71.6	72.1	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	128	276	585	1,293			
CNCEL	138	287	640	1,380			

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Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart				
Road Name: Cactus Avenue					Job Number: 8870				
Road Segment: East of Heacock Street									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 43,556 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,356 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 83.494				
					Medium Trucks: 68.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.57	-4.52	-1.20	-4.77	0.006	0.000		
Medium Trucks	82.40	-13.67	-4.51	-1.20	-4.69	0.000	0.000		
Heavy Trucks	86.40	-17.83	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.6	67.7	66.0	58.9	68.5	88.1			
Medium Trucks	82.0	61.5	66.1	63.8	82.1	82.3			
Heavy Trucks	83.1	61.8	52.8	63.8	82.2	82.3			
Vehicle Noise	71.2	66.4	66.5	61.5	70.2	70.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	103	221	476	1,027					
CNCEL	110	236	513	1,104					

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Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart																			
Road Name: Cactus Avenue					Job Number: 8870																			
Road Segment: West of Indian Street																								
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS																			
Highway Data					Site Conditions (Hard = 10, Soft = 15)																			
Average Daily Traffic (ADT): 55,584 vehicles					Autos: 15																			
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15																			
Peak Hour Volume: 5,558 vehicles					Heavy Trucks (3+ Axles): 15																			
Vehicle Speed: 55 mph					Vehicle Mix																			
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily																			
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%																			
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%																			
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%																			
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)																			
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000																			
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287																			
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0																			
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)																			
Road Elevation: 0.0 feet					Autos: 36.464																			
Road Grade: 0.0%					Medium Trucks: 86.404																			
Left View: -90.0 degrees					Heavy Trucks: 96.413																			
Right View: 90.0 degrees																								
FHWA Noise Model Calculations																								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n																	
Autos	71.76	-3.15	-1.20	-4.52	-4.77	0.000	0.000																	
Medium Trucks	82.40	-14.09	-4.51	-1.20	-4.69	0.000	0.000																	
Heavy Trucks	86.40	-18.04	-4.51	-1.20	-5.16	0.000	0.000																	
Unmitigated Noise Levels (without Topo and barrier attenuation)																								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL																		
Autos	68.2	67.3	65.5	58.5	68.1	88.7																		
Medium Trucks	82.6	61.1	64.7	63.2	81.6	81.8																		
Heavy Trucks	82.9	61.2	52.2	63.4	81.6	81.6																		
Vehicle Noise	70.9	59.9	66.1	61.2	69.6	76.2																		
Corrected Noise Levels to Noise Contour (in feet)																								
70 dBA					65 dBA					60 dBA					55 dBA									
Ln					96					237					447					603				
CNEL					104					229					431					1,138				
Friday, November 08, 2013																								

Scenario: Year 2035 With Project Road Name: Carbus Avenue Road Segment: East of Kitching Street				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 25,117 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axes): 15			
Peak Hour Volume: 2,612 vehicles				Heavy Trucks (3+ Axes): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 89.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	1.18	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-16.06	-4.51	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-20.02	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	67.2	65.3	63.6	57.6	66.1	66.7	
Medium Trucks	69.8	59.1	52.8	51.2	59.7	59.9	
Heavy Trucks	69.7	59.2	50.2	51.5	58.9	58.9	
Vehicle Noise	68.8	67.1	64.1	58.2	67.0	68.3	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	71	153	330	711			
CNCEL	77	185	365	785			

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Scenario: Year 2035 With Project Road Name: John F. Kennedy Drive Road Segment: West of Heacock Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,396 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,810 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	-0.76	-4.52	-1.20	-4.77	0.006	0.000	0.000	
Medium Trucks	62.40	-17.98	-4.51	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	66.40	-21.96	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.3	63.4	61.6	55.6	64.2	64.8	63.9	62.9	61.9
Medium Trucks	58.7	57.2	50.8	49.3	57.7	58.0	57.0	56.0	55.0
Heavy Trucks	58.7	57.3	48.3	49.5	57.8	58.0	57.0	56.0	55.0
Vehicle Noise	58.9	56.1	52.2	57.3	65.8	65.3	64.3	63.3	62.3
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	63	114	243	529					
CNCEL	57	123	264	589					

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Scenario: Year 2035 With Project Road Name: John F. Kennedy Drive Road Segment: East of Heacock Street				Project Name: Moreno Valley Walmart Job Number: 8870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 15,451 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,545 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 36 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 38.494			
Road Grade: 0.0%				Medium Trucks: 89.404			
Left View: -90.0 degrees				Heavy Trucks: 89.413			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	-0.93	-4.52	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-18.17	-4.51	-1.20	-4.86	0.000	0.000
Heavy Trucks	86.40	-22.13	-4.51	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	65.1	63.2	61.5	55.4	64.0	64.6	
Medium Trucks	58.5	57.0	50.8	49.1	57.6	57.8	
Heavy Trucks	58.6	57.1	48.1	49.3	57.7	57.6	
Vehicle Noise	59.7	54.9	52.0	57.1	65.7	66.1	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	51	111	238	514			
CNCEL	55	119	257	553			

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Scenario: Year 2035 With Project Road Name: Iris Avenue Road Segment: West of Indian Street				Project Name: Moreno Valley Valmart Job Number: 3870			
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 15,951 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 1,565 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 40 mph				Vehicle Mix			
Near/Far Lane Distance: 12 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 39.945			
Road Grade: 0.0%				Medium Trucks: 89.856			
Left View: -90.0 degrees				Heavy Trucks: 89.885			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	68.51	0.96	-4.62	-1.20	-4.77	0.000	0.000
Medium Trucks	77.72	-16.86	-4.61	-1.20	-4.80	0.000	0.000
Heavy Trucks	82.98	-20.61	-4.61	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	81.3	58.4	57.6	51.6	60.2	66.8	
Medium Trucks	55.3	53.7	47.4	45.8	54.3	54.5	
Heavy Trucks	55.6	55.2	46.1	47.4	55.7	55.9	
Vehicle Noise	63.3	61.6	58.3	53.7	62.3	62.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	31	86	142	305			
CNCEL	33	70	152	327			

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Scenario: Year 2035 With Project Road Name: Iris Avenue Road Segment: East of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,516 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,056 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet									
Site Data					VehicleType				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
VehicleType	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	0.31	-4.52	-1.20	-4.77	0.006	0.000		
Medium Trucks	82.40	-16.86	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	88.40	-20.88	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.4	64.5	62.7	56.7	66.3	85.5			
Medium Trucks	58.8	56.3	51.9	50.3	58.8	59.0			
Heavy Trucks	56.6	56.4	46.3	50.8	58.8	59.1			
Vehicle Noise	66.0	66.2	53.2	58.4	66.8	67.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	82	134	389	823					
CNCEL	87	144	311	870					

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Scenario: Year 2035 With Project Road Name: Iris Avenue Road Segment: West of Perris Boulevard					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 26,182 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 2,678 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.0% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berry): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 86.404				
Left View: -90.0 degrees					Medium Trucks: 86.404				
Right View: 90.0 degrees					Heavy Trucks: 86.413				
FHWA Noise Abol Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	1,48	-4.62	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-15.78	-4.61	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	88.40	-18.74	-4.61	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	67.5	65.8	63.8	57.8	68.4	67.0			
Medium Trucks	60.8	59.4	53.0	51.5	60.0	60.2			
Heavy Trucks	60.9	59.5	50.5	51.7	60.1	60.2			
Vehicle Noise	69.1	67.3	64.4	59.5	69.1	69.5			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	74	180	345	742					
CNCEL	80	172	371	789					

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Scenario: Year 2035 With Project				Project Name: Moreno Valley Walmart			
Road Name: Iris Avenue				Job Number: 3870			
Road Segment: West of Lassen Street							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 38,173 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 3,817 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 80 feet				Vehicle Type Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 37.316			
Road Grade: 0.0%				Medium Trucks: 87.214			
Left View: -90.0 degrees				Heavy Trucks: 97.224			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten
Autos	71.78	3.06	-2.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-14.24	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-18.20	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	69.8	67.8	66.2	66.1	66.7	66.3	
Medium Trucks	63.2	61.7	59.4	58.6	62.3	62.5	
Heavy Trucks	63.3	61.8	59.8	54.1	62.4	62.5	
Vehicle Noise	71.4	69.7	66.7	61.8	70.4	70.9	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	106	226	482	1,061			
CNCEL	114	246	530	1,141			

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Scenario: Year 2035 With Project Road Name: Iris Avenue Road Segment: East of Lassen Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 43,386 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,338 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 87.315				
					Medium Trucks: 67.214				
					Heavy Trucks: 67.224				
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	3.55	-3.74	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-13.98	-3.73	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	86.40	-17.84	-3.73	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.4	68.5	66.7	60.7	68.3	68.9			
Medium Trucks	63.8	62.3	59.9	54.4	62.8	63.1			
Heavy Trucks	63.6	62.4	59.4	54.8	63.0	63.1			
Vehicle Noise	72.0	70.2	67.3	62.4	70.9	71.4			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	116	248	536	1,155					
CNCEL	124	266	577	1,243					

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Scenario: Year 2035 With Project Road Name: Kramena Avenue Road Segment: East of Indian Street				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt)		8,086 vehicles		Autos		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		810 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed		45 mph						
Near/Far Lane Distance:		24 feet						
Site Data				Vehicle Mix				
Barrier Height:		0.0 feet		Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Ber)		0.0		Autos:	77.5%	12.9%	8.0%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:	84.8%	4.8%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Observer Height (above Pad):		5.0 feet		Noise Source Elevations (in feet)				
Road Elevation:		0.0 feet		Autos:	0.000			
Road Grade:		0.0%		Medium Trucks:	2.287			
Left View:		-90.0 degrees		Heavy Trucks:	8.006 Grade Adjustment: 0.0			
Right View:		90.0 degrees		Lane Equivalent Distances (in feet)				
				Autos:	35.403			
				Medium Trucks:	86.314			
				Heavy Trucks:	95.323			
FHWA Noise Model Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	68.46	-2.87	-4.59	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	76.46	-20.11	-4.57	-1.20	-4.85	0.000	0.000	0.000
Heavy Trucks	84.25	-24.08	-4.57	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	59.8	57.8	56.1	50.1	58.7	59.3		
Medium Trucks	53.8	52.1	49.7	44.2	52.6	52.8		
Heavy Trucks	54.4	53.0	44.0	45.2	53.6	53.7		
Vehicle Noise	61.6	59.9	56.9	52.1	60.6	61.1		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	24	51	110	237				
CNCEL	25	55	118	254				

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Scenario: Year 2035 With Project Road Name: Harley Knox Boulevard Road Segment: East of Webster Avenue					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 38,516 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,959 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet									
Site Data					Vehicle Type Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Noise Source Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Autos: 0.000				
Pad Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Autos: 93.403				
					Medium Trucks: 89.314				
					Heavy Trucks: 89.323				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	89.48	-4.02	-4.88	-1.20	-4.77	0.000	0.000	9.300	
Medium Trucks	79.45	-15.22	-4.57	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	84.25	-17.17	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.7	64.6	63.6	57.0	66.8	66.2			
Medium Trucks	59.5	59.0	57.8	51.0	59.5	59.7			
Heavy Trucks	61.3	59.6	58.8	52.1	60.5	59.6			
Vehicle Noise	68.5	66.8	63.6	58.0	67.5	69.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	98	147	317	663					
CNCEL	73	159	340	732					
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Scenario: Year 2035 With Project Road Name: Harley Knox Boulevard Road Segment: West of Indian Street					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 39,888 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,886 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos:	77.5%	12.9%	6.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet					Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.0 feet					Autos:	0.000			
Pad Elevation: 0.0 feet					Medium Trucks:	2.287			
Road Elevation: 0.0 feet					Heavy Trucks:	8.006 Grade Adjustment: 0.0			
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos:	83.494			
Right View: 90.0 degrees					Medium Trucks:	86.404			
					Heavy Trucks:	89.413			
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	2.99	-4.52	-1.20	-4.77	0.006	0.000		
Medium Trucks	62.40	-14.38	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	68.40	-18.94	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.8	67.0	65.3	58.2	67.8	88.4			
Medium Trucks	62.3	60.8	59.4	52.9	61.4	91.8			
Heavy Trucks	62.5	60.9	59.3	53.1	61.5	91.8			
Vehicle Noise	70.5	68.7	65.8	60.8	69.5	89.8			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	92	196	427	921					
CNCEL	98	213	460	890					

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Scenario: Year 2035 With Project Road Name: Harley Knox Boulevard Road Segment: East of Indian Street					Project Name: Moreno Valley Valmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 34,684 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 3,488 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 86.404				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.76	2.88	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	62.40	-14.68	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	68.40	-18.61	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	68.8	68.7	65.0	58.8	67.5	68.1			
Medium Trucks	62.0	60.5	59.4	52.9	61.1	61.2			
Heavy Trucks	62.1	60.6	59.8	52.9	61.2	61.3			
Vehicle Noise	70.2	69.5	65.5	60.6	69.2	68.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	88	180	408	862					
CNCEL	95	204	440	949					

Fogdog, November 08, 2013

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Scenario: Year 2035 With Project Road Name: Frederick Street Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 12,851 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,265 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Vehicle Type Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	-11.72	-4.52	-1.20	-4.77	0.000	0.000	9.900	
Medium Trucks	82.40	-16.97	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-22.85	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	84.3	62.4	60.7	54.6	63.2	63.8			
Medium Trucks	57.7	58.2	49.8	48.3	58.8	57.0			
Heavy Trucks	57.8	55.0	47.3	48.5	56.9	57.0			
Vehicle Noise	65.8	64.1	61.2	56.3	64.9	65.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	45	98	211	455					
CNCEL	49	105	227	489					
Friday, November 08, 2013									

Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart				
Road Name: Heacock Street					Job Number: 8870				
Road Segment: North of Alessandro Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 18,891 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 1,806 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	-11.72	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-17.34	-4.51	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-21.30	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.0	64.1	62.3	56.2	64.8	65.6			
Medium Trucks	58.3	57.8	61.3	49.9	58.4	58.6			
Heavy Trucks	58.4	56.0	48.9	50.2	58.5	58.7			
Vehicle Noise	67.5	65.8	62.8	57.8	68.5	67.0			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	58	126	271	594					
CNCEL	63	136	292	628					
Friday, November 08, 2013									

Scenario: Year 2035 With Project Road Name: Heacock Street Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 18,578 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,658 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
					Vehicle Type	Day	Evening	Night	Daily
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distances (in feet)				
					Autos: 38.494 Medium Trucks: 86.404 Heavy Trucks: 96.413				
FHWA Noise Abol Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	-11.72	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-17.37	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-21.23	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	65.9	64.0	62.3	56.2	64.8	65.4			
Medium Trucks	58.3	57.8	51.4	49.8	58.4	58.6			
Heavy Trucks	58.4	57.9	48.9	50.1	58.5	58.6			
Vehicle Noise	67.5	65.7	62.3	57.6	66.5	66.6			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	86	126	270	582					
CNCEL	63	135	280	626					
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Scenario: Year 3035 With Project					Project Name: Moreno Valley Vamart				
Road Name: Indian Street					Job Number: 3870				
Road Segment: North of Cottonwood Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (Adt): 12,782 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axes): 15				
Peak Hour Volume: 1,278 vehicles					Heavy Trucks (3+ Axes): 15				
Vehicle Speed: 40 mph									
Near/Far Lane Distance: 12 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle/Type: Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Road): 5.0 feet					Noise Source Elevations (in feet)				
Road Elevation: 0.0 feet					Autos: 0.000				
Road Grade: 0.0%					Medium Trucks: 2.287				
Left View: -90.0 degrees					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Right View: 90.0 degrees									
FHWA Noise Model Calculations					Lane Equivalent Distance (in feet)				
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	68.51	-3.36	-4.62	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-17.82	-4.61	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.98	-21.57	-4.61	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	60.3	58.4	56.7	50.6	58.2	58.8			
Medium Trucks	54.3	52.8	48.4	44.8	53.3	53.8			
Heavy Trucks	55.8	54.2	45.2	46.4	54.0	54.9			
Vehicle Noise:	62.3	60.6	57.3	52.8	61.3	61.7			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn:	26	57	122	263					
CNCEL:	28	61	131	262					

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	77.75	12.9%	-4.82	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-16.48	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-22.44	-4.51	-1.20	-5.16	0.000	0.000		

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	64.8	62.8	61.2	55.1	63.7	64.3
Medium Trucks	58.2	58.7	50.3	48.8	57.3	57.5
Heavy Trucks	58.2	59.0	47.8	48.0	57.4	57.5
Vehicle Noise	66.4	64.6	61.7	56.0	65.4	65.0

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	49	108	226	481
CNEL	53	114	245	526

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	69.51	-3.15	-4.82	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-17.39	-4.81	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.89	-21.34	-4.81	-1.20	-5.16	0.000	0.000		

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	60.5	58.6	56.8	50.8	58.4	60.1
Medium Trucks	54.5	53.0	46.6	45.1	53.8	53.8
Heavy Trucks	55.5	54.4	45.4	45.8	55.0	55.1
Vehicle Noise	62.6	60.0	57.5	53.0	61.5	62.0

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	27	58	127	273
CNEL	28	63	136	292

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	69.51	-3.15	-4.82	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-18.59	-4.81	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.89	-22.55	-4.81	-1.20	-5.16	0.000	0.000		

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	59.3	57.4	55.7	49.8	58.2	58.8
Medium Trucks	53.3	51.8	46.4	43.8	52.4	52.6
Heavy Trucks	54.9	53.2	44.2	45.4	53.6	53.6
Vehicle Noise	61.3	59.6	56.3	51.6	60.3	60.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	23	48	105	227
CNEL	24	52	113	243

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	69.51	-3.15	-4.82	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-17.42	-4.81	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.89	-21.37	-4.81	-1.20	-5.16	0.000	0.000		

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	60.5	58.6	56.8	50.8	58.4	60.1
Medium Trucks	54.5	53.0	46.6	45.1	53.8	53.8
Heavy Trucks	55.5	54.4	45.4	45.8	55.0	55.1
Vehicle Noise	62.5	60.0	57.5	53.0	61.5	61.9

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	27	58	126	271
CNEL	29	63	135	281

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	69.51	-3.15	-4.82	-1.20	-4.77	0.000	0.000		
Medium Trucks	77.72	-15.92	-4.81	-1.20	-4.80	0.000	0.000		
Heavy Trucks	82.89	-19.88	-4.81	-1.20	-5.16	0.000	0.000		

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	62.0	60.1	58.3	52.3	60.3	61.6
Medium Trucks	56.0	54.5	48.1	46.6	55.0	55.3
Heavy Trucks	57.5	56.9	48.9	48.1	56.5	56.8
Vehicle Noise	64.0	62.3	59.0	54.5	63.0	63.4

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	34	74	159	342
CNEL	37	79	170	366

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FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.76	-1.69	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-15.35	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-19.30	-4.51	-1.20	-5.16	0.000	0.000		

Unmitigated Noise Levels (without Topo and barrier attenuation)

Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos	69.0	68.1	66.3	58.2	68.8	67.5
Medium Trucks	61.3	59.8	53.6	51.8	60.4	60.6
Heavy Trucks	61.4	60.0	50.9	52.2	60.6	60.7
Vehicle Noise	69.5	67.9	64.9	59.6	66.6	66.6

Centerline Distance to Noise Contour (in feet)

	70 dBA	65 dBA	60 dBA	55 dBA
Ldn	78	171	388	793
CNEL	85	184	396	854

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Scenario: Year 2035 V&B Project					Project Name: Moreno Valley Vamart				
Road Name: Perris Boulevard					Job Number: 8870				
Road Segment: North of SFR-50 V&B Ramps									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 54,152 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,419 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 30 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					VehicleType	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos	77.5%	12.9%	8.6%	87.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.008 Grade Adjustment: 0.0				
Left View: -90.0 degrees									
Right View: 90.0 degrees					Lane Equivalent Distance (in feet)				
					Autos: 37.316				
					Medium Trucks: 87.214				
					Heavy Trucks: 97.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.52	-2.74	-1.20	-4.77	0.000	0.000	9.55	
Medium Trucks	82.40	-12.72	-3.73	-1.20	-4.80	0.000	0.000	0.09	
Heavy Trucks	86.40	-16.66	-3.73	-1.20	-5.16	0.000	0.000	0.03	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.4	68.6	67.7	61.6	70.3	70.9			
Medium Trucks	84.8	69.2	68.9	55.3	63.8	64.0			
Heavy Trucks	84.8	69.4	64.3	55.6	63.9	64.1			
Vehicle Noise	72.8	71.2	68.2	63.4	71.9	72.4			
Centerline Distance to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn					134	269	822	1,340	
CNEL					144	310	989	1,441	

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Scenario: Year 2035 V&B Project				Project Name: Moreno Valley Walmart			
Road Name: Perris Boulevard				Job Number: 8870			
Road Segment: SFR-50 V&B Ramps to Sunnymead Boulevard							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 42,268 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 4,226 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 30 feet				VehicleType Day Evening Night Daily			
Site Data				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Height: 0.0 feet				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Barrier Type (0-Wall, 1-Berm): 0.0				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Barrier: 100.0 feet				Noise Source Elevations (in feet)			
Centerline Dist. to Observer: 100.0 feet				Autos: 0.000			
Barrier Distance to Observer: 0.0 feet				Medium Trucks: 2.287			
Observer Height (Above Pad): 5.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Pad Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Elevation: 0.0 feet				Autos: 87.219			
Road Grade: 0.0%				Medium Trucks: 67.214			
Left View: -90.0 degrees				Heavy Trucks: 67.224			
Right View: 90.0 degrees							
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	3.44	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-13.90	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-17.76	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	70.3	68.4	66.6	60.6	68.2	68.8	
Medium Trucks	82.7	62.2	56.8	54.3	62.7	63.0	
Heavy Trucks	83.7	62.3	53.3	54.5	62.8	63.0	
Vehicle Noise	71.9	70.1	67.1	62.3	70.8	71.0	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	114	245	527	1,135			
CNCEL	122	263	567	1,222			

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Scenario: Year 2035 V&B Project					Project Name: Moreno Valley Valmart				
Road Name: Perris Boulevard					Job Number: 8870				
Road Segment: South of Sunnymead Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 47,384 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,738 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 30 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Vehicle Mix				
					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 36.454				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 96.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.53	-4.53	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.30	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-17.28	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	70.0	68.1	66.3	60.3	68.8	69.5			
Medium Trucks	83.4	81.8	56.5	54.0	82.4	82.7			
Heavy Trucks	83.4	82.0	53.0	54.2	82.6	82.7			
Vehicle Noise	71.6	69.3	66.3	62.0	70.5	71.0			
Centering Noise Levels to Noise Contour (in feet)									
					70 dBA	65 dBA	60 dBA	55 dBA	
Ldn:					109	234	534	1,088	
CNEL:					117	251	542	1,168	

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Scenario: Year 2035 With Project Road Name: Ferris Boulevard Road Segment: South of Cottonwood Avenue					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 45,966 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,567 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axes): 15 Heavy Trucks (3+ Axes): 15				
					Vehicle Mix				
					Vehicle/Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0 feet Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -60.0 degrees Right View: 60.0 degrees					Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REMEIL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.78	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-13.45	-4.51	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	86.40	-17.40	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	69.8	68.0	66.2	66.1	66.8	66.4			
Medium Trucks	69.2	61.7	55.4	53.8	62.3	62.5			
Heavy Trucks	69.3	61.8	52.8	54.1	62.4	62.6			
Vehicle Noise	71.4	69.7	66.7	61.8	70.4	70.9			
Centerline Distance to Noise Contour (in feet)									
70 dBA 65 dBA 60 dBA 55 dBA									
Ldn: 106 229 483 1,063									
CNSEL: 114 249 531 1,142									
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Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart				
Road Name: Ferris Boulevard					Job Number: 8870				
Road Segment: North of Alessandro Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 47,366 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,787 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 36 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					Vehicle Type Day Evening Night Daily				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 77.5% 12.9% 8.6% 87.42%				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Noise Source Elevations (in feet)				
Pad Elevation: 0.0 feet					Autos: 0.000				
Road Elevation: 0.0 feet					Medium Trucks: 2.287				
Road Grade: 0.0%					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Left View: -90.0 degrees					Lane Equivalent Distance (in feet)				
Right View: 90.0 degrees					Autos: 89.494				
					Medium Trucks: 66.404				
					Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	3.90	-4.52	-1.20	-4.77	0.000	0.000	0.000	
Medium Trucks	82.40	-13.26	-4.51	-1.20	-4.89	0.000	0.000	0.000	
Heavy Trucks	86.40	-17.22	-4.51	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNSEL			
Autos	70.0	68.1	66.4	65.3	66.8	66.5			
Medium Trucks	69.4	61.9	55.6	54.0	62.5	62.7			
Heavy Trucks	69.5	62.0	53.0	54.3	62.6	62.7			
Vehicle Noise	71.6	69.9	66.9	62.0	70.6	71.1			
Centerline Distance to Noise Contour (in feet)									
		70 dBA		65 dBA		60 dBA		55 dBA	
Ldn:		108		236		507		1,083	
CNSEL:		118		253		548		1,176	
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Scenario: Year 2035 With Project Road Name: Perris Boulevard Road Segment: South of Alessandro Boulevard				Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 48,058 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,806 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet				Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
				Vehicle Mix				
				Vehicle Type	Day	Evening	Night	Daily
Site Data				Autos: 77.5% 12.9% 8.0% 87.42%				
				Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees				Noise Source Elevations (in feet) Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
				Lane Equivalent Distances (in feet) Autos: 38.494 Medium Trucks: 86.404 Heavy Trucks: 96.413				
FHWA Noise Abol Calculations								
Vehicle Type	REXEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n	
Autos	71.76	4.00	-4.52	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-13.24	-4.51	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.40	-17.20	-4.51	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	70.1	68.2	66.4	65.3	69.0	68.6		
Medium Trucks	69.4	61.8	55.5	54.0	62.5	62.7		
Heavy Trucks	69.5	62.1	53.0	54.3	62.6	62.6		
Vehicle Noise	71.6	69.9	66.9	62.6	70.6	71.1		
Centerline Distance to Noise Contour (in feet)								
70 dBA 65 dBA 60 dBA 55 dBA								
Ldn: 110 238 508 1,088								
CNEL: 119 254 547 1,179								
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Scenario: Year 2035 With Project Road Name: Ferris Boulevard Road Segment: North of Cactus Avenue					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 44,155 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 4,416 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0=Wall, 1=Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Road): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.6% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
					Noise Source Elevations (in feet)				
					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
					Lane Equivalent Distance (in feet)				
					Autos: 38.494 Medium Trucks: 89.404 Heavy Trucks: 89.413				
FHWA Noise Model Calculations									
Vehicle Type	RECEIVED	Traffic Flow	Distance	Finite Road	Freeze	Barrier Att'n	Berm Att'n		
Autos	71.78	3.95	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.81	-4.51	-1.20	-4.80	0.000	0.000		
Heavy Trucks	96.40	-17.57	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	89.7	61.6	60.6	60.6	66.8	68.7			
Medium Trucks	93.1	61.6	55.2	53.7	62.1	62.1			
Heavy Trucks	93.1	61.7	52.7	53.8	62.3	62.3			
Vehicle Noise:	71.3	69.5	66.6	61.7	70.2	70.1			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Left:	134	273	481	1,098					
CNEL:	111	240	517	1,114					
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Scenario: Year 2035 With Project				Project Name: Moreno Valley Valmart			
Road Name: Fernis Boulevard				Job Number: 8870			
Road Segment: South of John F. Kennedy Drive							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (ADT): 54,895 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 5,470 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph				Vehicle Mix			
Near/Far Lane Distance: 90 feet							
Site Data				Vehicle Type Day Evening Night Daily			
Barrier Height: 0.0 feet				Autos: 77.5% 12.9% 8.6% 87.42%			
Barrier Type (0-Wall, 1-Berm): 0.0				Medium Trucks: 84.8% 4.9% 10.3% 1.84%			
Centerline Dist. to Barrier: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Centerline Dist. to Observer: 100.0 feet				Noise Source Elevations (in feet)			
Barrier Distance to Observer: 0.0 feet				Autos: 0.000			
Observer Height (Above Pad): 5.0 feet				Medium Trucks: 2.287			
Pad Elevation: 0.0 feet				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Road Elevation: 0.0 feet				Lane Equivalent Distance (in feet)			
Road Grade: 0.0%				Autos: 87.316			
Left View: -90.0 degrees				Medium Trucks: 87.214			
Right View: 90.0 degrees				Heavy Trucks: 87.224			
FHWA Noise Model Calculations							
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n
Autos	71.78	4.58	-3.74	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-12.88	-3.73	-1.20	-4.80	0.000	0.000
Heavy Trucks	86.40	-16.64	-3.73	-1.20	-5.16	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL	
Autos	71.4	68.6	67.7	61.7	70.3	70.9	
Medium Trucks	84.8	69.3	68.9	55.4	83.8	84.1	
Heavy Trucks	84.8	69.4	64.4	55.6	84.0	84.1	
Vehicle Noise	73.0	71.2	68.3	63.4	71.9	72.4	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Ldn	135	260	826	1,348			
CNCEL	145	312	973	1,450			

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Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart				
Road Name: Fernis Boulevard					Job Number: 8870				
Road Segment: North of Gerdan Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 51,792 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,176 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 90 feet					Vehicle Mix				
Site Data					VehicleType Day Evening Night Daily				
Barrier Height: 0.0 feet					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Type (0-Wall, 1-Berm): 0.0					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Centerline Dist. to Barrier: 100.0 feet					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Observer: 100.0 feet					Vehicle Elevations (in feet)				
Barrier Distance to Observer: 0.0 feet					Autos: 0.000				
Observer Height (Above Road): 5.0 feet					Medium Trucks: 2.287				
Road Elevation: 0.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos: 87.316				
Right View: 90.0 degrees					Medium Trucks: 87.214				
					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
VehicleType	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.78	4.32	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.92	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-16.87	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.7	68.3	67.5	61.4	70.1	70.7			
Medium Trucks	84.6	69.0	66.7	55.1	83.8	83.9			
Heavy Trucks	84.6	69.2	64.1	55.4	83.7	83.8			
Vehicle Noise	72.7	71.0	68.0	63.2	71.7	72.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	130	280	803	1,300					
CNCEL	140	301	948	1,308					

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Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart				
Road Name: Pernis Boulevard					Job Number: 8870				
Road Segment: Gerdan Avenue to Driveway 3									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 50,858 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,086 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 98 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.8% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Grade: 0.0%					Autos: 87.316				
Left View: -90.0 degrees					Medium Trucks: 87.214				
Right View: 90.0 degrees					Heavy Trucks: 87.224				
FHWA Noise Model Calculations									
Vehicle Type	REAMEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.76	4.22	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.01	-3.73	-1.20	-4.80	0.000	0.000		
Heavy Trucks	86.40	-16.97	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.1	68.2	67.4	61.4	70.0	70.6			
Medium Trucks	84.5	69.0	66.8	55.0	83.5	83.7			
Heavy Trucks	84.5	69.1	64.0	55.3	83.6	83.6			
Vehicle Noise	72.6	70.9	67.9	63.1	71.6	72.1			
Centerline Distance to Noise Contour (in feet)									
		70 ABA		85 ABA		65 ABA		55 ABA	
Ldn:		128		276		554		1,261	
CNEL:		139		287		640		1,378	

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Scenario: Year 2015 With Project				Project Name: Moreno Valley Valmart							
Road Name: Ferris Boulevard				Job Number: 3870							
Road Segment: South of Iris Avenue											
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS							
Highway Data				Site Conditions (Hard = 10, Soft = 15)							
Average Daily Traffic (ADT):		48,941 vehicles		Autos:		15					
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15					
Peak Hour Volume:		4,854 vehicles		Heavy Trucks (3+ Axles):		15					
Vehicle Speed:		55 mph		Vehicle Mix							
Near/Far Lane Distance:		90 feet									
Site Data				Vehicle Type Day Evening Night Daily							
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees		Autos:		77.5%		12.9%		8.6%		67.42%	
		Medium Trucks:		84.8%		4.9%		10.3%		1.84%	
		Heavy Trucks:		86.5%		2.7%		10.8%		0.74%	
		Noise Source Elevations (in feet)									
		Autos:		0.000		Grade Adjustment: 0.0					
Medium Trucks:		2.287									
Heavy Trucks:		8.008									
Lane Equivalent Distance (in feet)											
Autos:		87.316									
Medium Trucks:		87.214									
Heavy Trucks:		87.224									
FHWA Noise Model Calculations											
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten				
Autos	71.78	4.94	-3.74	-1.20	-4.77	0.000	0.000				
Medium Trucks	82.40	-12.20	-3.73	-1.20	-4.80	0.000	0.000				
Heavy Trucks	86.40	-17.16	-3.73	-1.20	-5.16	0.000	0.000				
Unmitigated Noise Levels (without Topo and barrier attenuation)											
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL					
Autos	70.9	68.0	67.2	61.2	68.8	76.4					
Medium Trucks	84.3	62.8	58.4	54.5	63.3	63.8					
Heavy Trucks	84.3	62.8	53.8	55.1	63.5	63.6					
Vehicle Noise	72.5	70.7	67.7	62.9	71.4	71.9					
Centerline Distance to Noise Contour (in feet)											
		70 dBA	65 dBA	60 dBA	55 dBA						
Ldn:		124	268	576	1,245						
CNEL:		134	268	622	1,396						
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Scenario: Year 2015 With Project					Project Name: Moreno Valley Walmart				
Road Name: Ferris Boulevard					Job Number: 8870				
Road Segment: North of Krameria Avenue									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 51,540 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,154 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph									
Near/Far Lane Distance: 90 feet					Vehicle Mix				
					VehicleType	Day	Evening	Night	Daily
Site Data					Autos: 77.5% 12.9% 8.6% 87.42%				
					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Barrier Height: 0.0 feet					Noise Source Elevations (in feet)				
Barrier Type (0-Wall, 1-Berm): 0.0					Autos: 0.000				
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks: 2.287				
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Barrier Distance to Observer: 0.0 feet									
Observer Height (Above Pad): 5.0 feet					Lane Equivalent Distance (in feet)				
Pad Elevation: 0.0 feet					Autos: 87.316				
Road Elevation: 0.0 feet					Medium Trucks: 87.214				
Road Grade: 0.0%					Heavy Trucks: 87.224				
Left View: -90.0 degrees									
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten		
Autos	71.78	4.90	-3.74	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-12.94	-3.73	-1.20	-4.89	0.000	0.000		
Heavy Trucks	86.40	-16.90	-3.73	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	71.1	68.2	67.5	61.4	70.0	70.7			
Medium Trucks	84.5	63.0	58.7	55.1	63.8	63.8			
Heavy Trucks	84.6	63.2	54.1	55.4	63.7	63.8			
Vehicle Noise	72.7	71.0	68.0	63.1	71.7	72.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn		278	601	1,286					
CNEL	139	300	647	1,394					

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Scenario: Year 2015 With Project				Project Name: Moreno Valley Walmart				
Road Name: Perris Boulevard				Job Number: 8870				
Road Segment: South of Krameria Avenue								
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS				
Highway Data				Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt):		51,541 vehicles		Autos:		15		
Peak Hour Percentage:		10%		Medium Trucks (2 Axles):		15		
Peak Hour Volume:		5,154 vehicles		Heavy Trucks (3+ Axles):		15		
Vehicle Speed:		55 mph						
Near/Far Lane Distance:		98 feet						
Site Data				Vehicle Mix				
Barrier Height:		0.0 feet		Vehicle Type	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berry):		0.0		Autos:	77.5%	12.8%	8.0%	87.42%
Centerline Dist. to Barrier:		100.0 feet		Medium Trucks:	84.8%	4.8%	10.3%	1.84%
Centerline Dist. to Observer:		100.0 feet		Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer:		0.0 feet		Noise Source Elevations (in feet)				
Observer Height (above Pad):		5.0 feet		Autos:	0.000			
Pad Elevation:		0.0 feet		Medium Trucks:	2.287		Grade Adjustment: 0.0	
Road Elevation:		0.0 feet		Heavy Trucks:	8.006			
Road Grade:		0.0%		Lane Equivalent Distances (in feet)				
Left View:		-90.0 degrees		Autos:	87.316			
Right View:		90.0 degrees		Medium Trucks:	87.214			
				Heavy Trucks:	87.224			
FHWA Noise Abol Calculations								
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Atten	Berm Atten	
Autos	71.78	4.30	-3.74	-1.20	-4.77	0.000	0.000	0.000
Medium Trucks	82.40	-12.94	-3.73	-1.20	-4.80	0.000	0.000	0.000
Heavy Trucks	86.40	-16.80	-3.73	-1.20	-5.16	0.000	0.000	0.000
Unmitigated Noise Levels (without Topo and barrier attenuation)								
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL		
Autos	71.1	69.2	67.5	61.4	70.0	70.7		
Medium Trucks	84.5	63.0	58.7	55.1	63.6	63.8		
Heavy Trucks	84.6	63.2	54.1	55.4	63.7	63.8		
Vehicle Noise	72.7	71.0	68.0	63.1	71.7	72.2		
Centerline Distance to Noise Contour (in feet)								
	70 dBA	65 dBA	60 dBA	55 dBA				
Ldn	130	278	601	1,286				
CNEL	139	300	647	1,394				

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Year 2015 With Project - Noise Model Inputs

Scenario: Year 2035 With Project Road Name: Ferris Boulevard Road Segment: North of Harley Knox Boulevard					Project Name: Moreno Valley Valmart Job Number: 3870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 53,988 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 5,367 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph					Vehicle Mix				
Near/Far Lane Distance: 24 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.6% 67.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (Above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 39.403				
Road Grade: 0.0%					Medium Trucks: 89.314				
Left View: -60.0 degrees					Heavy Trucks: 89.323				
Right View: 60.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	89.48	5.36	-4.88	-1.20	-4.77	0.000	0.000	9.000	
Medium Trucks	79.45	-11.98	-4.57	-1.20	-4.80	0.000	0.000	0.000	
Heavy Trucks	84.25	-15.83	-4.57	-1.20	-5.16	0.000	0.000	0.000	
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	89.0	65.1	64.4	55.3	66.9	67.8			
Medium Trucks	81.8	60.3	59.8	52.4	60.8	61.1			
Heavy Trucks	82.6	61.2	62.2	53.4	61.0	61.9			
Vehicle Noise	68.8	68.1	65.0	60.3	68.9	69.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	84	161	385	836					
CNCEL	80	194	417	858					

Friday, November 6, 2013

Friday, November 08, 2013

Scenario: Year 2035 With Project					Project Name: Moreno Valley Walmart				
Road Name: Ferris Boulevard					Job Number: 8870				
Road Segment: South of Harley Knox Boulevard									
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 41,514 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,157 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 45 mph									
Near/Far Lane Distance: 24 feet									
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet					VehicleType	Day	Evening	Night	Daily
Barrier Type (0-Wall, 1-Berm): 0.0					Autos:	77.5%	12.9%	6.6%	67.42%
Centerline Dist. to Barrier: 100.0 feet					Medium Trucks:	84.8%	4.9%	10.3%	1.84%
Centerline Dist. to Observer: 100.0 feet					Heavy Trucks:	86.5%	2.7%	10.8%	0.74%
Barrier Distance to Observer: 0.0 feet					Noise Source Elevations (in feet)				
Observer Height (Above Pad): 5.0 feet					Autos:	0.000			
Pad Elevation: 0.0 feet					Medium Trucks:	2.287			
Road Elevation: 0.0 feet					Heavy Trucks:	8.006 Grade Adjustment: 0.0			
Road Grade: 0.0%					Lane Equivalent Distance (in feet)				
Left View: -90.0 degrees					Autos:	89.403			
Right View: 90.0 degrees					Medium Trucks:	89.314			
					Heavy Trucks:	89.323			
FHWA Noise Model Calculations									
VehicleType	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	69.48	4.25	-4.56	-1.20	-4.77	0.006	0.000		
Medium Trucks	78.45	-12.99	-4.57	-1.20	-4.89	0.000	0.000		
Heavy Trucks	84.25	-16.86	-4.57	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
VehicleType	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	66.8	65.0	63.3	57.2	66.8	66.4			
Medium Trucks	60.7	58.2	52.8	51.3	59.7	59.0			
Heavy Trucks	61.5	60.1	51.1	52.3	60.7	60.8			
Vehicle Noise	60.8	57.0	53.9	59.2	67.7	68.2			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	71	152	328	708					
CNCEL	78	163	352	738					

Friday, November 08, 2013

Friday, November 08, 2013

Scenario: Year 2035 With Project Road Name: Perris Boulevard Road Segment: North of Ramona Expressway					Project Name: Moreno Valley Walmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (adt): 40,873 vehicles					Autos: 15				
Peak Hour Percentage: 10%					Medium Trucks (2 Axles): 15				
Peak Hour Volume: 4,087 vehicles					Heavy Trucks (3+ Axles): 15				
Vehicle Speed: 55 mph					Vehicle Mix				
Near/Far Lane Distance: 36 feet					Vehicle Type Day Evening Night Daily				
Site Data					Autos: 77.5% 12.9% 8.9% 87.42%				
Barrier Height: 0.0 feet					Medium Trucks: 84.8% 4.9% 10.3% 1.84%				
Barrier Type (0-Wall, 1-Berm): 0.0					Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
Centerline Dist. to Barrier: 100.0 feet					Noise Source Elevations (in feet)				
Centerline Dist. to Observer: 100.0 feet					Autos: 0.000				
Barrier Distance to Observer: 0.0 feet					Medium Trucks: 2.287				
Observer Height (above Pad): 5.0 feet					Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Pad Elevation: 0.0 feet					Lane Equivalent Distance (in feet)				
Road Elevation: 0.0 feet					Autos: 36.454				
Road Grade: 0.0%					Medium Trucks: 86.404				
Left View: -90.0 degrees					Heavy Trucks: 86.413				
Right View: 90.0 degrees									
FHWA Noise Model Calculations									
Vehicle Type	RESEL	Traffic Flow	Distance	Finite Road	Fresnel	Barrier Att'n	Berm Att'n		
Autos	71.76	3.27	-4.52	-1.20	-4.77	0.000	0.000		
Medium Trucks	82.40	-13.87	-4.51	-1.20	-4.85	0.000	0.000		
Heavy Trucks	86.40	-17.82	-4.51	-1.20	-5.16	0.000	0.000		
Unmitigated Noise Levels (without Topo and barrier attenuation)									
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Ldn	CNEL			
Autos	69.3	67.4	65.7	59.8	68.2	68.8			
Medium Trucks	62.7	61.2	54.8	53.3	61.8	62.0			
Heavy Trucks	62.9	61.3	52.3	53.6	61.6	62.0			
Vehicle Noise	70.3	69.1	66.2	61.3	69.6	70.3			
Centerline Distance to Noise Contour (in feet)									
	70 dBA	65 dBA	60 dBA	55 dBA					
Ldn	98	211	455	881					
CNCEL	106	227	480	1,055					

Friday, November 08, 2013

Friday, November 08, 2013

Highway 17 - Moreno Valley Valtmart (I-15) - 2013									
Scenario: Year 2035 Valt Project Road Name: Kitching Street Road Segment: North of John F. Kennedy Drive					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 20,217 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,022 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.92 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 77.72 -15.82 -4.61 -1.20 -4.80 0.000 0.000 Heavy Trucks: 82.98 -19.56 -4.61 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 62.3 60.4 59.6 52.6 61.2 61.8 Medium Trucks: 58.3 54.8 49.4 48.5 55.3 55.6 Heavy Trucks: 57.6 55.2 47.2 48.4 56.8 56.9 Vehicle Noise: 64.3 62.6 58.3 54.0 63.3 63.7					Autos: 39.494 Medium Trucks: 89.494 Heavy Trucks: 89.494				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
70 dBA 65 dBA 60 dBA 55 dBA Ldn: 36 77 166 358 CNEL: 39 92 178 363					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.92 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 77.72 -15.82 -4.61 -1.20 -4.80 0.000 0.000 Heavy Trucks: 82.98 -19.56 -4.61 -1.20 -5.16 0.000 0.000				

Friday, November 08, 2013

Highway 17 - Moreno Valley Valtmart (I-15) - 2013									
Scenario: Year 2035 Valt Project Road Name: Kitching Street Road Segment: South of John F. Kennedy Drive					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 19,217 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,826 vehicles Vehicle Speed: 40 mph Near/Far Lane Distance: 12 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.92 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 77.72 -15.82 -4.61 -1.20 -4.80 0.000 0.000 Heavy Trucks: 82.98 -19.56 -4.61 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 61.8 60.0 58.2 52.2 60.8 61.4 Medium Trucks: 55.8 54.3 48.0 46.4 54.9 55.1 Heavy Trucks: 57.2 55.7 46.7 48.0 58.3 58.4 Vehicle Noise: 60.9 62.2 58.9 54.3 62.8 63.3					Autos: 39.494 Medium Trucks: 89.494 Heavy Trucks: 89.494				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
70 dBA 65 dBA 60 dBA 55 dBA Ldn: 33 72 155 334 CNEL: 36 77 168 358					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.92 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 77.72 -15.82 -4.61 -1.20 -4.80 0.000 0.000 Heavy Trucks: 82.98 -19.56 -4.61 -1.20 -5.16 0.000 0.000				

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Highway 17 - Moreno Valley Valtmart (I-15) - 2013									
Scenario: Year 2035 Valt Project Road Name: Kitching Street Road Segment: North of Iris Avenue					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 15,889 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 1,589 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 0.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.92 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -18.02 -4.51 -1.20 -4.85 0.000 0.000 Heavy Trucks: 86.40 -21.69 -4.51 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 65.3 63.4 61.8 55.8 64.2 64.8 Medium Trucks: 58.7 57.2 50.8 49.3 57.7 57.9 Heavy Trucks: 58.7 57.3 49.2 49.5 57.6 58.0 Vehicle Noise: 66.3 65.1 62.1 57.3 65.6 66.3					Autos: 36.494 Medium Trucks: 86.494 Heavy Trucks: 86.413				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
70 dBA 65 dBA 60 dBA 55 dBA Ldn: 53 113 244 527 CNEL: 57 122 293 568					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.92 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -18.02 -4.51 -1.20 -4.85 0.000 0.000 Heavy Trucks: 86.40 -21.69 -4.51 -1.20 -5.16 0.000 0.000				

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Highway 17 - Moreno Valley Valtmart (I-15) - 2013									
Scenario: Year 2035 Valt Project Road Name: Kitching Street Road Segment: South of Iris Avenue					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 22,868 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,287 vehicles Vehicle Speed: 45 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.49 1.94 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 78.45 -15.58 -4.51 -1.20 -4.80 0.000 0.000 Heavy Trucks: 84.25 -19.56 -4.51 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 64.4 60.7 58.3 54.7 60.3 60.9 Medium Trucks: 58.1 56.8 50.3 48.7 57.2 57.4 Heavy Trucks: 58.0 57.6 49.5 48.6 58.1 58.3 Vehicle Noise: 66.2 64.5 61.3 56.7 62.2 62.7					Autos: 38.494 Medium Trucks: 88.494 Heavy Trucks: 88.413				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
70 dBA 65 dBA 60 dBA 55 dBA Ldn: 48 109 232 478 CNEL: 51 111 238 512					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.49 1.94 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 78.45 -15.58 -4.51 -1.20 -4.80 0.000 0.000 Heavy Trucks: 84.25 -19.56 -4.51 -1.20 -5.16 0.000 0.000				

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Highway 17 - Moreno Valley Valtmart (I-15) - 2013									
Scenario: Year 2035 Valt Project Road Name: Lasselle Street Road Segment: North of Iris Avenue					Project Name: Moreno Valley Valtmart Job Number: 8870				
SITE SPECIFIC INPUT DATA					NOISE MODEL INPUTS				
Highway Data					Site Conditions (Hard = 10, Soft = 15)				
Average Daily Traffic (ADT): 29,418 vehicles Peak Hour Percentage: 10% Peak Hour Volume: 2,942 vehicles Vehicle Speed: 55 mph Near/Far Lane Distance: 36 feet					Autos: 15 Medium Trucks (2 Axles): 15 Heavy Trucks (3+ Axles): 15				
Site Data					Vehicle Mix				
Barrier Height: 0.0 feet Barrier Type (0-Wall, 1-Berm): 0.0 Centerline Dist. to Barrier: 100.0 feet Centerline Dist. to Observer: 100.0 feet Barrier Distance to Observer: 0.0 feet Observer Height (Above Pad): 5.0 feet Pad Elevation: 0.0 feet Road Elevation: 0.0 feet Road Grade: 0.0% Left View: -90.0 degrees Right View: 90.0 degrees					Vehicle Type: Day Evening Night Daily Autos: 77.5% 12.9% 8.9% 87.42% Medium Trucks: 84.8% 4.9% 10.3% 1.84% Heavy Trucks: 86.5% 2.7% 10.8% 0.74%				
FHWA Noise Model Calculations					Noise Source Elevations (in feet)				
Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.87 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -15.37 -4.51 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -19.32 -4.51 -1.20 -5.16 0.000 0.000					Autos: 0.000 Medium Trucks: 2.287 Heavy Trucks: 8.006 Grade Adjustment: 0.0				
Unmitigated Noise Levels (without Topo and barrier attenuation)					Lane Equivalent Distance (in feet)				
Vehicle Type: Leq Peak Hour Leq Day Leq Evening Leq Night Ldn CNEL Autos: 67.8 66.0 64.3 58.2 66.5 67.4 Medium Trucks: 61.3 59.8 53.5 51.9 60.4 60.8 Heavy Trucks: 61.4 59.3 50.9 52.2 60.5 60.8 Vehicle Noise: 66.5 67.8 64.8 59.9 68.5 69.0					Autos: 38.494 Medium Trucks: 88.494 Heavy Trucks: 88.413				
Centerline Distance to Noise Contour (in feet)					FHWA Noise Model Calculations				
70 dBA 65 dBA 60 dBA 55 dBA Ldn: 79 170 387 781 CNEL: 85 183 395 851					Vehicle Type: RESEL Traffic Flow Distance Finite Road Fresnel Barrier Atten Berm Atten Autos: 88.51 1.87 -4.62 -1.20 -4.77 0.000 0.000 Medium Trucks: 82.40 -15.37 -4.51 -1.20 -4.80 0.000 0.000 Heavy Trucks: 88.40 -19.32 -4.51 -1.20 -5.16 0.000 0.000				

Friday, November 08, 2013

Scenario: Year 2035 4th Project				Project Name: Moreno Valley Walmart			
Road Name: Lasselle Street				Job Number: 08070			
Road Segment: South of Iris Avenue							
SITE SPECIFIC INPUT DATA				NOISE MODEL INPUTS			
Highway Data				Site Conditions (Hard = 10, Soft = 15)			
Average Daily Traffic (adt): 35,382 vehicles				Autos: 15			
Peak Hour Percentage: 10%				Medium Trucks (2 Axles): 15			
Peak Hour Volume: 3,538 vehicles				Heavy Trucks (3+ Axles): 15			
Vehicle Speed: 55 mph							
Near/Far Lane Distance: 38 feet							
Site Data				Vehicle Mix			
Barrier Height: 0.0 feet				Vehicle type: Day Evening Night Daily			
Barrier Type (0=Wall, 1=Barrier): 0.0				Autos: 77.5% 12.8% 8.5% 87.42%			
Centerline Dist to Barrier: 100.0 feet				Medium Trucks: 94.8% 4.6% 10.3% 1.94%			
Centerline Dist to Observer: 100.0 feet				Heavy Trucks: 86.5% 2.7% 10.8% 0.74%			
Barrier Distance to Observer: 0.0 feet							
Observer Height (above Road): 5.0 feet							
Road Elevation: 0.0 feet				Noise Source Elevations (in feet)			
Field Elevation: 0.0 feet				Autos: 0.000			
Road Elevation: 0.0 feet				Medium Trucks: 2.287			
Road Grade: 0% slope				Heavy Trucks: 8.006 Grade Adjustment: 0.0			
Left View: -80.0 degrees				Lane Equivalent Distances (in feet)			
Right View: 80.0 degrees				Autos: 98.454			
				Medium Trucks: 95.404			
				Heavy Trucks: 96.413			
FWHA Noise Abatement Calculations							
Vehicle Type	REVEL	Traffic Flow	Distance	Finite Road	Freezead	Barrier Offset	Berm Offset
Autos	71.76	2.67	-4.51	-1.20	-4.77	0.000	0.000
Medium Trucks	82.40	-14.57	-4.51	-1.20	-4.85	0.000	0.000
Heavy Trucks	86.40	-18.53	-4.51	-1.20	-5.16	0.000	0.000
Unimproved Noise Levels (without Topog and barrier attenuation)							
Vehicle Type	Leq Peak Hour	Leq Day	Leq Evening	Leq Night	Leq	CNEL	
Autos	68.7	68.8	65.1	59.0	67.6	68.2	
Medium Trucks	62.1	80.8	94.2	52.7	81.2	81.4	
Heavy Trucks	62.2	80.7	51.7	52.9	61.3	61.4	
Vehicle Noise	70.3	69.5	65.6	60.7	69.3	69.7	
Centerline Distance to Noise Contour (in feet)							
	70 dBA	65 dBA	60 dBA	55 dBA			
Leq	88	133	415	694			
CNEL	98	201	446	952			

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APPENDIX 9.1:

OPERATIONAL NOISE ANALYSIS WORKSHEETS

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R1		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	824.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	814.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient: 20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)			

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	20.0	77.3
Distance Attenuation	824.0	-32.3
Shielding (Barrier Attenuation)	824.0	-5.5
Raw (Distance + Barrier)		39.5
18 Minute Hourly Adjustment		34.3

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R1		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	833.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	823.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient: 20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)			

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	75.5
Distance Attenuation	833.0	-44.4
Shielding (Barrier Attenuation)	833.0	-5.5
Raw (Distance + Barrier)		25.6
20 Minute Hourly Adjustment		20.8

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R1		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	822.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	812.0 feet	Barrier Type (0=Wall, 1=Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	81.9
Distance Attenuation	822.0	-44.3
Shielding (Barrier Attenuation)	822.0	-5.3
Raw (Distance + Barrier)		32.3
30 Minute Hourly Adjustment		29.3

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R1		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	954.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	954.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	72.9
Distance Attenuation	954.0	-45.7
Shielding (Barrier Attenuation)	954.0	-5.5
Raw (Distance + Barrier)		21.7
20 Minute Hourly Adjustment		16.9

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R1		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	992.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	982.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	60.1
Distance Attenuation	992.0	-46.0
Shielding (Barrier Attenuation)	992.0	-5.5
Raw (Distance + Barrier)		8.6
60 Minute Hourly Adjustment		8.6

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R1		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	1,780.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	1,770.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	10.0	76.5
Distance Attenuation	1,780.0	-45.0
Shielding (Barrier Attenuation)	1,780.0	-5.5
Raw (Distance + Barrier)		26.0
30 Minute Hourly Adjustment		23.0

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R2		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	1,139.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,129.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	20.0	77.3
Distance Attenuation	1,139.0	-35.1
Shielding (Barrier Attenuation)	1,139.0	-5.5
Raw (Distance + Barrier)		36.7
18 Minute Hourly Adjustment		31.5

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R2		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	1,293.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,283.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	75.5
Distance Attenuation	1,293.0	-48.3
Shielding (Barrier Attenuation)	1,293.0	-5.5
Raw (Distance + Barrier)		21.7
20 Minute Hourly Adjustment		16.9

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R2		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	1,126.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,116.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	81.9
Distance Attenuation		-47.1
Shielding (Barrier Attenuation)	1,126.0	-5.3
Raw (Distance + Barrier)		29.5
30 Minute Hourly Adjustment		26.5

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R2		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	942.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	932.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	72.9
Distance Attenuation	942.0	-45.5
Shielding (Barrier Attenuation)	942.0	-5.5
Raw (Distance + Barrier)		21.9
20 Minute Hourly Adjustment		17.1

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R2		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,017.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,007.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	60.1
Distance Attenuation	1,017.0	-46.2
Shielding (Barrier Attenuation)	1,017.0	-5.5
Raw (Distance + Barrier)		8.4
60 Minute Hourly Adjustment		8.4

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R2		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	2,113.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	2,103.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	10.0	76.5
Distance Attenuation	2,113.0	-46.5
Shielding (Barrier Attenuation)	2,113.0	-5.5
Raw (Distance + Barrier)		24.5
30 Minute Hourly Adjustment		21.5

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R3		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	2,127.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	2,117.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	20.0	77.3	
Distance Attenuation	2,127.0	-40.5	
Shielding (Barrier Attenuation)	2,127.0	-5.5	
Raw (Distance + Barrier)		31.3	
18 Minute Hourly Adjustment		26.1	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R3		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	2,343.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	2,333.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	75.5	
Distance Attenuation	2,343.0	-53.4	
Shielding (Barrier Attenuation)	2,343.0	-5.5	
Raw (Distance + Barrier)		16.6	
20 Minute Hourly Adjustment		11.8	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R3		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,968.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,958.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	81.9	
Distance Attenuation	1,968.0	-51.9	
Shielding (Barrier Attenuation)	1,968.0	-5.4	
Raw (Distance + Barrier)		24.6	
30 Minute Hourly Adjustment		21.6	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R3		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,726.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,716.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	72.9	
Distance Attenuation	1,726.0	-50.8	
Shielding (Barrier Attenuation)	1,726.0	-5.5	
Raw (Distance + Barrier)		16.6	
20 Minute Hourly Adjustment		11.8	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R3		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	1,787.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	1,777.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	60.1	
Distance Attenuation	1,787.0	-51.1	
Shielding (Barrier Attenuation)	1,787.0	-5.5	
Raw (Distance + Barrier)		3.5	
60 Minute Hourly Adjustment		3.5	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R3		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	2,717.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	2,707.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient: 20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)			
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	10.0	76.5	
Distance Attenuation	2,717.0	-48.7	
Shielding (Barrier Attenuation)	2,717.0	-5.5	
Raw (Distance + Barrier)		22.3	
30 Minute Hourly Adjustment		19.3	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R4		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,664.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,664.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	20.0	77.3	
Distance Attenuation	1,664.0	-38.4	
Shielding (Barrier Attenuation)	1,664.0	0.0	
Raw (Distance + Barrier)		38.9	
18 Minute Hourly Adjustment		33.7	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R4		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,832.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,832.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	75.5	
Distance Attenuation	1,832.0	-51.3	
Shielding (Barrier Attenuation)	1,832.0	0.0	
Raw (Distance + Barrier)		24.2	
20 Minute Hourly Adjustment		19.4	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R4		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,316.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,316.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	81.9	
Distance Attenuation	1,316.0	-48.4	
Shielding (Barrier Attenuation)	1,316.0	0.0	
Raw (Distance + Barrier)		33.5	
30 Minute Hourly Adjustment		30.5	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R4		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,258.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,258.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	72.9	
Distance Attenuation	1,258.0	-48.0	
Shielding (Barrier Attenuation)	1,258.0	0.0	
Raw (Distance + Barrier)		24.9	
20 Minute Hourly Adjustment		20.1	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R4		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,291.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,291.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	60.1	
Distance Attenuation	1,291.0	-48.2	
Shielding (Barrier Attenuation)	1,291.0	0.0	
Raw (Distance + Barrier)		11.9	
60 Minute Hourly Adjustment		11.9	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R4		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,630.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,630.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	10.0	76.5	
Distance Attenuation	1,630.0	-44.2	
Shielding (Barrier Attenuation)	1,630.0	0.0	
Raw (Distance + Barrier)		32.3	
30 Minute Hourly Adjustment		29.3	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R5		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	1,479.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,479.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	20.0	77.3	
Distance Attenuation	1,479.0	-37.4	
Shielding (Barrier Attenuation)	1,479.0	0.0	
Raw (Distance + Barrier)		39.9	
18 Minute Hourly Adjustment		34.7	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R5		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,582.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,582.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	75.5	
Distance Attenuation	1,582.0	-50.0	
Shielding (Barrier Attenuation)	1,582.0	0.0	
Raw (Distance + Barrier)		25.5	
20 Minute Hourly Adjustment		20.7	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R5		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,123.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,123.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	81.9	
Distance Attenuation	1,123.0	-47.0	
Shielding (Barrier Attenuation)	1,123.0	0.0	
Raw (Distance + Barrier)		34.9	
30 Minute Hourly Adjustment		31.9	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R5		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	899.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	899.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	72.9	
Distance Attenuation	899.0	-45.1	
Shielding (Barrier Attenuation)	899.0	0.0	
Raw (Distance + Barrier)		27.8	
20 Minute Hourly Adjustment		23.0	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R5		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	938.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	938.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	60.1
Distance Attenuation	938.0	-45.5
Shielding (Barrier Attenuation)	938.0	0.0
Raw (Distance + Barrier)		14.6
60 Minute Hourly Adjustment		14.6

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R5		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,075.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,075.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	10.0	76.5
Distance Attenuation	1,075.0	-40.6
Shielding (Barrier Attenuation)	1,075.0	0.0
Raw (Distance + Barrier)		35.9
30 Minute Hourly Adjustment		32.9

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R6		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,587.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,577.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	20.0	77.3
Distance Attenuation	1,587.0	-38.0
Shielding (Barrier Attenuation)	1,587.0	-5.5
Raw (Distance + Barrier)		33.8
18 Minute Hourly Adjustment		28.6

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R6		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,604.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,594.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	75.5
Distance Attenuation	1,604.0	-50.1
Shielding (Barrier Attenuation)	1,604.0	-5.5
Raw (Distance + Barrier)		19.9
20 Minute Hourly Adjustment		15.1

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R6		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,269.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,259.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	81.9
Distance Attenuation	1,269.0	-48.1
Shielding (Barrier Attenuation)	1,269.0	-5.3
Raw (Distance + Barrier)		28.5
30 Minute Hourly Adjustment		25.5

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R6		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	840.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	830.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	72.9
Distance Attenuation	840.0	-44.5
Shielding (Barrier Attenuation)	840.0	-5.5
Raw (Distance + Barrier)		22.9
20 Minute Hourly Adjustment		18.1

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity Observer Location: R6		Project Name: Walmart Moreno Valley Job Number: 8870 Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	914.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	904.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	60.1
Distance Attenuation	914.0	-45.2
Shielding (Barrier Attenuation)	914.0	-5.5
Raw (Distance + Barrier)		9.4
60 Minute Hourly Adjustment		9.4

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash Observer Location: R6		Project Name: Walmart Moreno Valley Job Number: 8870 Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	721.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	711.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	10.0	76.5
Distance Attenuation	721.0	-37.2
Shielding (Barrier Attenuation)	721.0	-5.4
Raw (Distance + Barrier)		33.9
30 Minute Hourly Adjustment		30.9

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R7		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,407.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,397.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	20.0	77.3	
Distance Attenuation	1,407.0	-36.9	
Shielding (Barrier Attenuation)	1,407.0	-5.5	
Raw (Distance + Barrier)		34.9	
18 Minute Hourly Adjustment		29.7	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R7		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	1,435.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,425.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	75.5	
Distance Attenuation	1,435.0	-49.2	
Shielding (Barrier Attenuation)	1,435.0	-5.5	
Raw (Distance + Barrier)		20.8	
20 Minute Hourly Adjustment		16.0	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R7		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,074.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,064.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	81.9	
Distance Attenuation	1,074.0	-46.6	
Shielding (Barrier Attenuation)	1,074.0	-5.3	
Raw (Distance + Barrier)		30.0	
30 Minute Hourly Adjustment		27.0	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R7		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	662.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	652.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	72.9	
Distance Attenuation	662.0	-42.4	
Shielding (Barrier Attenuation)	662.0	-5.5	
Raw (Distance + Barrier)		25.0	
20 Minute Hourly Adjustment		20.2	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R7		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	730.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	720.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	60.1
Distance Attenuation	730.0	-43.3
Shielding (Barrier Attenuation)	730.0	-5.5
Raw (Distance + Barrier)		11.3
60 Minute Hourly Adjustment		11.3

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R7		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	498.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	488.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	10.0	76.5
Distance Attenuation	498.0	-33.9
Shielding (Barrier Attenuation)	498.0	-5.4
Raw (Distance + Barrier)		37.2
30 Minute Hourly Adjustment		34.2

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R8		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	2,291.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	2,281.0 feet	Barrier Type (0=Wall, 1=Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	20.0	77.3
Distance Attenuation	2,291.0	-41.2
Shielding (Barrier Attenuation)	2,291.0	-5.5
Raw (Distance + Barrier)		30.6
18 Minute Hourly Adjustment		25.4

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R8		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	2,496.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	2,486.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	75.5
Distance Attenuation	2,496.0	-54.0
Shielding (Barrier Attenuation)	2,496.0	-5.5
Raw (Distance + Barrier)		16.0
20 Minute Hourly Adjustment		11.2

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R8		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	2,009.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,999.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	81.9	
Distance Attenuation	2,009.0	-52.1	
Shielding (Barrier Attenuation)	2,009.0	-5.4	
Raw (Distance + Barrier)		24.4	
30 Minute Hourly Adjustment		21.4	

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STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R8		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,909.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,899.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	72.9	
Distance Attenuation	1,909.0	-51.6	
Shielding (Barrier Attenuation)	1,909.0	-5.5	
Raw (Distance + Barrier)		15.8	
20 Minute Hourly Adjustment		11.0	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity Observer Location: R8		Project Name: Walmart Moreno Valley Job Number: 8870 Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,937.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	1,927.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	60.1	
Distance Attenuation	1,937.0	-51.8	
Shielding (Barrier Attenuation)	1,937.0	-5.5	
Raw (Distance + Barrier)		2.8	
60 Minute Hourly Adjustment		2.8	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R8		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	2,536.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	2,526.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	10.0	76.5	
Distance Attenuation	2,536.0	-48.1	
Shielding (Barrier Attenuation)	2,536.0	-5.5	
Raw (Distance + Barrier)		22.9	
30 Minute Hourly Adjustment		19.9	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R9		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	384.0 feet	Barrier Height:	8.0 feet
Noise Distance to Barrier:	263.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	121.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	20.0	77.3
Distance Attenuation	384.0	-25.7
Shielding (Barrier Attenuation)	384.0	-5.2
Raw (Distance + Barrier)		46.4
18 Minute Hourly Adjustment		41.2

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R9		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	419.0 feet	Barrier Height:	8.0 feet
Noise Distance to Barrier	296.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	123.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	75.5
Distance Attenuation	419.0	-38.5
Shielding (Barrier Attenuation)	419.0	-5.5
Raw (Distance + Barrier)		31.5
20 Minute Hourly Adjustment		26.7

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R9		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	312.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	302.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	81.9
Distance Attenuation	312.0	-35.9
Shielding (Barrier Attenuation)	312.0	-5.1
Raw (Distance + Barrier)		40.9
30 Minute Hourly Adjustment		37.9

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R9		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	278.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	268.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	72.9
Distance Attenuation	278.0	-34.9
Shielding (Barrier Attenuation)	278.0	-5.6
Raw (Distance + Barrier)		32.4
20 Minute Hourly Adjustment		27.6

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R9		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	250.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier:	240.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	60.1
Distance Attenuation	250.0	-34.0
Shielding (Barrier Attenuation)	250.0	-5.5
Raw (Distance + Barrier)		20.6
60 Minute Hourly Adjustment		20.6

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash Observer Location: R9		Project Name: Walmart Moreno Valley Job Number: 8870 Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	928.0 feet	Barrier Height:	6.0 feet
Noise Distance to Barrier	918.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	10.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	10.0	76.5
Distance Attenuation	928.0	-39.4
Shielding (Barrier Attenuation)	928.0	-5.5
Raw (Distance + Barrier)		31.6
30 Minute Hourly Adjustment		28.6

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R10		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	639.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	639.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	20.0	77.3
Distance Attenuation	639.0	-30.1
Shielding (Barrier Attenuation)	639.0	0.0
Raw (Distance + Barrier)		47.2
18 Minute Hourly Adjustment		42.0

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R10		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	768.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	768.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	75.5
Distance Attenuation	768.0	-43.7
Shielding (Barrier Attenuation)	768.0	0.0
Raw (Distance + Barrier)		31.8
20 Minute Hourly Adjustment		27.0

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R10		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	280.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	280.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	81.9	
Distance Attenuation	280.0	-35.0	
Shielding (Barrier Attenuation)	280.0	0.0	
Raw (Distance + Barrier)		46.9	
30 Minute Hourly Adjustment		43.9	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R10		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	176.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier	176.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	72.9	
Distance Attenuation	176.0	-30.9	
Shielding (Barrier Attenuation)	176.0	0.0	
Raw (Distance + Barrier)		42.0	
20 Minute Hourly Adjustment		37.2	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R10		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	216.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	216.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	60.1	
Distance Attenuation	216.0	-32.7	
Shielding (Barrier Attenuation)	216.0	0.0	
Raw (Distance + Barrier)		27.4	
60 Minute Hourly Adjustment		27.4	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R10		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	782.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	782.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	10.0	76.5	
Distance Attenuation	782.0	-37.9	
Shielding (Barrier Attenuation)	782.0	0.0	
Raw (Distance + Barrier)		38.6	
30 Minute Hourly Adjustment		35.6	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Loading Dock Activities		Project Name: Walmart Moreno Valley	
Observer Location: R11		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	255.0 feet	Barrier Height:	10.0 feet
Noise Distance to Barrier:	10.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	245.0 feet		
Noise Height:	8.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	20.0	77.3
Distance Attenuation	255.0	-22.1
Shielding (Barrier Attenuation)	255.0	-7.0
Raw (Distance + Barrier)		48.2
18 Minute Hourly Adjustment		43.0

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Trash Compactor		Project Name: Walmart Moreno Valley	
Observer Location: R11		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	301.0 feet	Barrier Height:	10.0 feet
Noise Distance to Barrier	10.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	291.0 feet		
Noise Height:	5.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	Yes
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	75.5
Distance Attenuation	301.0	-35.6
Shielding (Barrier Attenuation)	301.0	-10.7
Raw (Distance + Barrier)		29.2
20 Minute Hourly Adjustment		24.4

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Air Condenser Units		Project Name: Walmart Moreno Valley	
Observer Location: R11		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	260.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	260.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	25.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	81.9
Distance Attenuation	260.0	-34.3
Shielding (Barrier Attenuation)	260.0	0.0
Raw (Distance + Barrier)		47.6
30 Minute Hourly Adjustment		44.6

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL v20140201			
Source: Shopping Cart Carousel		Project Name: Walmart Moreno Valley	
Observer Location: R11		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	528.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	528.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	3.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		

NOISE MODEL PROJECTIONS		
Noise Level	Distance (feet)	Leq
Reference (Sample)	5.0	72.9
Distance Attenuation	528.0	-40.5
Shielding (Barrier Attenuation)	528.0	0.0
Raw (Distance + Barrier)		32.4
20 Minute Hourly Adjustment		27.6

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL - 7/14/2014			
Source: Parking Lot Activity		Project Name: Walmart Moreno Valley	
Observer Location: R11		Job Number: 8670	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer	517.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	517.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	4.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient:	20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)		
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	5.0	60.1	
Distance Attenuation	517.0	-40.3	
Shielding (Barrier Attenuation)	517.0	0.0	
Raw (Distance + Barrier)		19.8	
60 Minute Hourly Adjustment		19.8	

Friday, July 18, 2014

STATIONARY SOURCE NOISE PREDICTION MODEL - 2/14/2014			
Source: Car Wash		Project Name: Walmart Moreno Valley	
Observer Location: R11		Job Number: 8870	
		Analyst: A. Wolfe	
NOISE MODEL INPUTS			
Noise Distance to Observer:	1,227.0 feet	Barrier Height:	0.0 feet
Noise Distance to Barrier:	1,227.0 feet	Barrier Type (0-Wall, 1-Berm):	0.0
Barrier Distance to Observer:	0.0 feet		
Noise Height:	9.0 feet		
Observer Height (Above Pad):	5.0 feet	Barrier Breaks Line of Sight:	No
Observer Elevation:	0.0 feet	Wall Located at Noise Source Elevation:	No
Noise Source Elevation:	0.0 feet		
Drop Off Coefficient: 20.0 (20 = 6 dBA per doubling of distance, 15 = 4.5 dBA per doubling of distance)			
NOISE MODEL PROJECTIONS			
Noise Level	Distance (feet)	Leq	
Reference (Sample)	10.0	76.5	
Distance Attenuation	1,227.0	-41.8	
Shielding (Barrier Attenuation)	1,227.0	0.0	
Raw (Distance + Barrier)		34.7	
30 Minute Hourly Adjustment		31.7	

Friday, July 18, 2014

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APPENDIX 10.1:
RCNM EQUIPMENT DATABASE

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U.S. Department
of Transportation

Federal Highway
Administration

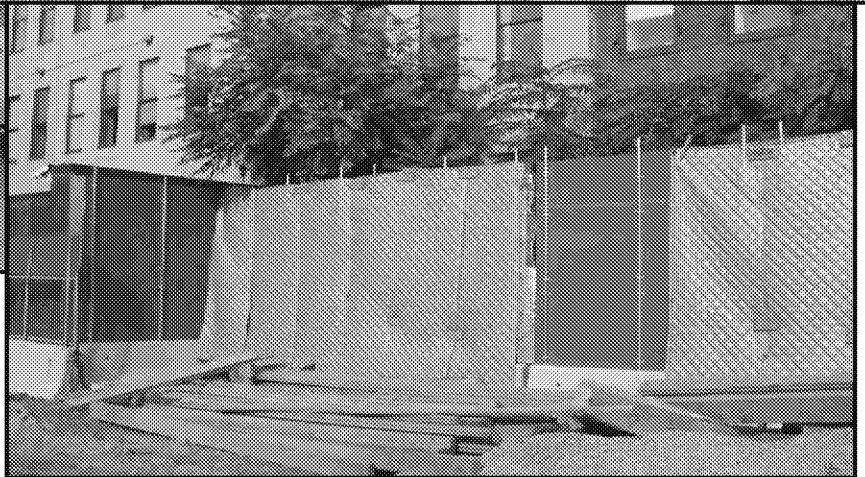
FHWA-HEP-05-054
DOT-VNTSC-FHWA-05-01

FHWA

Roadway Construction Noise Model

User's Guide

Final Report
January 2006



Prepared for
U.S. Department of Transportation
Federal Highway Administration
Office of Natural and Human Environment
Washington, DC 20590

Prepared by
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Table 1. CA/T equipment noise emissions and acoustical usage factors database.

CA/T Noise Emission Reference Levels and Usage Factors					
filename: EQUIPLST.xls					
revised: 7/26/05					
Equipment Description	Impact Device ?	Acoustical Use Factor (%)	Spec 721.560 Lmax @ 50ft (dBA, slow)	Actual Measured Lmax @ 50ft (dBA, slow)	No. of Actual Data Samples (Count)
				(samples averaged)	
All Other Equipment > 5 HP	No	50	85	-- N/A --	0
Auger Drill Rig	No	20	85	84	36
Backhoe	No	40	80	78	372
Bar Bender	No	20	80	-- N/A --	0
Blasting	Yes	-- N/A --	94	-- N/A --	0
Boring Jack Power Unit	No	50	80	83	1
Chain Saw	No	20	85	84	46
Clam Shovel (dropping)	Yes	20	93	87	4
Compactor (ground)	No	20	80	83	57
Compressor (air)	No	40	80	78	18
Concrete Batch Plant	No	15	83	-- N/A --	0
Concrete Mixer Truck	No	40	85	79	40
Concrete Pump Truck	No	20	82	81	30
Concrete Saw	No	20	90	90	55
Crane	No	16	85	81	405
Dozer	No	40	85	82	55
Drill Rig Truck	No	20	84	79	22
Drum Mixer	No	50	80	80	1
Dump Truck	No	40	84	76	31
Excavator	No	40	85	81	170
Flat Bed Truck	No	40	84	74	4
Front End Loader	No	40	80	79	96
Generator	No	50	82	81	19
Generator (<25KVA, VMS signs)	No	50	70	73	74
Gradall	No	40	85	83	70
Grader	No	40	85	-- N/A --	0
Grapple (on backhoe)	No	40	85	87	1
Horizontal Boring Hydr. Jack	No	25	80	82	6
Hydra Break Ram	Yes	10	90	-- N/A --	0
Impact Pile Driver	Yes	20	95	101	11
Jackhammer	Yes	20	85	89	133
Man Lift	No	20	85	75	23
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	212
Pavement Scarifier	No	20	85	90	2
Paver	No	50	85	77	9
Pickup Truck	No	40	55	75	1
Pneumatic Tools	No	50	85	85	90
Pumps	No	50	77	81	17
Refrigerator Unit	No	100	82	73	3
Rivit Buster/chipping gun	Yes	20	85	79	19
Rock Drill	No	20	85	81	3
Roller	No	20	85	80	16
Sand Blasting (Single Nozzle)	No	20	85	96	9
Scraper	No	40	85	84	12
Shears (on backhoe)	No	40	85	96	5
Slurry Plant	No	100	78	78	1
Slurry Trenching Machine	No	50	82	80	75
Soil Mix Drill Rig	No	50	80	-- N/A --	0
Tractor	No	40	84	-- N/A --	0
Vacuum Excavator (Vac-truck)	No	40	85	85	149
Vacuum Street Sweeper	No	10	80	82	19
Ventilation Fan	No	100	85	79	13
Vibrating Hopper	No	50	85	87	1
Vibratory Concrete Mixer	No	20	80	80	1
Vibratory Pile Driver	No	20	95	101	44
Warning Horn	No	5	85	83	12
Welder / Torch	No	40	73	74	5