

DRAFT

**SDSU Mission Valley Campus Master Plan Project
Noise Technical Report**

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1 Introduction

Dudek was retained to prepare a Noise Technical Report for the proposed San Diego State University (SDSU) Mission Valley Campus Master Plan Project (proposed project). The proposed project is referenced in San Diego Municipal Code (SDMC) Section 22.0908, Sale of Real Property to SDSU, which was adopted after the SDSU West Campus Research Center, Stadium, and River Park Initiative (Measure G) was approved by the voters of the City of San Diego on November 6, 2018.

The proposed project is located south of Friars Road, west of Interstate (I) 15, north of the San Diego River, and east of the existing Fenton Marketplace shopping center. The proposed project would include (a) development of a Mission Valley campus for SDSU, including facilities for educational, research, technology, and support programs within a campus village and innovation area, including (b) demolition of the existing San Diego County Credit Union (SDCCU) Stadium (formerly “Qualcomm Stadium”); (c) construction of a new, multipurpose Stadium; (d) creation of the River Park; (e) passive and active recreation space and parks; and (f) associated infrastructure and amenities. Specifically, the proposed project would consist of development of facilities to accommodate the new 35,000-capacity multipurpose stadium; approximately 1.6 million square feet for campus uses; approximately 4,600 residential units; two hotels with approximately 400 hotel rooms total; approximately 95,000 square feet of commercial/retail uses to support SDSU’s Mission Valley campus and related project facilities; approximately 86 acres of parks, recreation, and open space, including the approximate 34-acre River Park, as identified in SDMC Section 22.0908, and pedestrian and bicycle trails; transit opportunities due to the existing on-site transit station; and associated infrastructure and other amenities..

This Noise Technical Report analyzes the proposed project’s noise impacts and consistency with relevant plans, policies, and guidelines. In particular, this report describes the existing setting of the project site, identifies the relevant regulatory setting, evaluates potential impacts, and identifies mitigation measures related to noise impacts that could result with implementation of the proposed project.

To help frame the presentation and discussion of acoustical concepts herein, Appendix A provides a glossary of sound metrics and descriptors.

1.1 Project Site, Location, and Setting

The property comprising the project site is located in the northeast portion of the Mission Valley community within the City of San Diego (see Figure 1, Project Region). Specifically, the project site is situated south of Friars Road, west of I-15, north of the San Diego River, and east of the existing Fenton Marketplace shopping center. It is approximately 5 miles from downtown San Diego and approximately 2.5 miles west of the existing SDSU main campus situated along I-8 within the College Area Community of the City of San Diego.

Regional access to and from the project site is provided by four major freeways—I-15, I-8, I-805, and State Route 163—accessed via Friars Road (see Figure 2, Project Vicinity). Further, the existing Metropolitan Transit System’s Trolley Station is situated on the project site as shown on Figure 2 and Figure 3, Surrounding Land Uses.

The project site is in a developed area surrounded by major freeways, roadways, existing development, and the San Diego River. Higher density multifamily residential land uses are located to the northwest, southwest, and east, across I-15. Friars Road, Mission Village Road, and San Diego Mission Road are located to the north. The San Diego

River, which flows east to west, is located south of the project site; and south of the river are additional office uses and I-8. To the north of Friars Road is San Diego Fire Department Fire Station 45, undeveloped hillsides, and single-family residences situated atop the mesa. To the west are office and large commercial retail uses. I-15 is located east of the project site.

Kinder Morgan owns the existing Mission Valley Terminal, which is a fuel storage facility located just north of the project site in Mission Valley at 9950 San Diego Mission Road. The Mission Valley Terminal has been in operation since the 1960s and is a primary fuel distribution center in San Diego County.

Regionally, the City of San Diego covers approximately 206,989 acres in southwestern San Diego County, is located approximately 17 miles north of the U.S./Mexico border, and borders the cities of Del Mar, Poway, Santee, El Cajon, La Mesa, Lemon Grove, National City, Chula Vista, and Coronado, and unincorporated San Diego County. The Pacific Ocean forms the City's western border, and the U.S./Mexico border is the City's southern border.

The Mission Valley Community is located in the central portion of the San Diego metropolitan area (see Figure 1, Project Region). This community is located approximately 4 miles north of downtown San Diego and 7 miles east of the Pacific Ocean. The communities of Linda Vista, Serra Mesa, Kearney Mesa, and Tierrasanta are located north of Mission Valley. Kensington-Talmadge, Normal Heights, Greater North Park, Uptown, and Old Town are located to the south of Mission Valley. Mission Bay Park is located west of Mission Valley, and the communities of Navajo and College Area are located east of Mission Valley.

1.2 Project Description

The proposed project entails the acquisition, construction, and operation of the SDSU Mission Valley campus, stadium, parks, recreation, and innovation area to support SDSU's education, research, entrepreneurial, technology, and athletics programs. Specifically, the proposed campus would include:

1. approximately 86 acres of parks, recreation, and open space, including a River Park, which includes the 34 acres identified pursuant to the framework set forth in SDMC Section 22.0908, which shall be built by SDSU/CSU, with shared SDSU/community active and passive parks and recreation fields and open space; and pedestrian, hiking, and biking trails;¹
2. approximately 1.6 million square feet of campus uses for education, research, innovation, entrepreneurial, and technology programs;
3. construction of a new, multipurpose 35,000-capacity stadium and the corresponding demolition of the existing SDCCU Stadium;
4. approximately 4,600 residences including student, faculty, staff, workforce, and affordable housing within a vibrant university village setting;
5. approximately 400 hotel rooms to support campus visitors and stadium-related events, with additional conference facilities, which would serve as an incubator for graduate and undergraduate students in SDSU's hospitality and tourism management program;
6. approximately 95,000 square feet of community-serving retail space to support campus, stadium, and the community;

¹ The City of San Diego (City) would remain the owner of approximately 34-acres identified in SDMC Section 22.0908 within the River Park. As part of CSU's purchase of the property comprising the project site, CSU would revitalize and restore the River Park.

7. enhanced use of the MTS Green Line Stadium Station, thereby minimizing vehicular traffic use and accommodating the planned Purple Line on the project site; and
8. associated on-site and off-site infrastructure, utilities, facilities, and other amenities.

As part of the proposed project, California State University (CSU) as lead agency would consider approval of the SDSU Mission Valley Campus Master Plan, which is the physical master plan to guide the future development of CSU facilities, based on academic goals and projected student enrollment levels, for an established time horizon. The SDSU Mission Valley Campus Master Plan would accommodate up to 15,000 full-time equivalent students (FTES) over time, resulting in a total student headcount of approximately 20,000 students.²

For further project-related information, please refer to Figure 4, Site Plan, which graphically depicts the proposed project and its components; and Table 1, Campus Land Use Summary, which provides a statistical breakdown of the components of the proposed project.

Table 1. Campus Land Use Summary

Proposed Campus Land Uses	Footprint (acres)	No. of Buildings	Stories	Units	
				Homes	Hotel Rooms
Parks, Recreation, and Open Space ^a	86.1 ^b	— ^c	—	—	—
Mixed-use Campus (Including Stadium)	28.6	17	3-6	—	—
Campus Residential	24.6	16	3-24	4,600	
Campus Hospitality ^d	5.2	2	3-22		400
Circulation	27.4	—	—	—	
Total^e	172.1	34	—	4,600	400

Source: Dudek 2019

Notes:

- ^a Includes trails.
- ^b Excludes 1.3-acre MTS fee-title for San Diego Trolley Line; no development proposed within that area.
- ^c A dash (—) signifies that the information does not apply for a given category.
- ^d Hotel H1 includes both hotel and residential uses.

The proposed project is anticipated to be developed and built out over approximately 15 years beginning in 2020 and ending in approximately 2035.

1.3 Project Design Features

The following project design features (PDF) are anticipated as representing both best construction practices and assumptions that support the value of construction noise level predictions herein.

PDF-N-1 CSU/SDSU, or its designee, will take steps necessary to ensure that all construction equipment is properly maintained and equipped with noise-reducing air intakes, exhaust mufflers, and engine

² One full-time equivalent student (FTES) is defined as one student taking 15 course units (which is considered to be a “full course load”). Two part-time students, each taking 7.5 course units, also would be considered one FTES; and, therefore, the total student headcount enrolled at the university is higher than the FTES enrollment. At buildout, SDSU estimates that when enrollment reaches 15,000 FTES at the SDSU Mission Valley campus, total students enrolled at that campus site would be approximately 20,000 students.

shrouds in accordance with manufacturers' recommendations. Equipment engine shrouds will be closed during equipment operation.

- PDF-N-2** Electrical power will be used to run air compressors and similar power tools.
- PDF-N-3** All equipment staging areas will be located as far as feasible from occupied residences or schools.
- PDF-N-4** Noise attenuation techniques will be employed as practical for all construction activity on and off the project site. Such techniques to achieve received noise levels below 75 A-weighted decibels (dBA) 12-hour noise equivalent level (L_{eq12h}) at potentially affected residentially-zoned land uses will include, but are not limited to, the use of sound blankets on noise-generating equipment and the insertion of field-erected temporary sound barriers to occlude source-to-receiver sound paths.
- PDF-N-5** On-site crushing facilities will be located a minimum of 600 feet from existing residences, future on-site residences, and other non-residential noise-sensitive receivers (e.g., seasonal avian nesting areas as identified by appropriate biological surveys).
- PDF-N-6** When facility design details are sufficiently complete, CSU/SDSU will prepare an acoustical study(s) of sound emission from proposed stationary noise sources. Best engineering practices will be implemented in the design and selection of these systems and their noise-producing components, as well as means for noise control or sound abatement that would be expected to help noise from such stationary sources comply with applicable standards at project property lines or sensitive receptor locations, as appropriate.
- PDF-N-7** To help minimize occurrence of annoying impulse noise and ground vibration, CSU/SDSU will consider usage of pavement saws and other equipment in lieu of impact-generating devices such as jackhammers, pavement breakers, and hoe rams for tasks such as concrete or asphalt demolition and removal.
- PDF-N-8** Where impact-type equipment are anticipated on site, CSU/SDSU will consider application of noise-attenuating shields, shrouds, or portable barriers or enclosures, to reduce the magnitudes of impulse noise.
- PDF-N-9** CSU/SDSU will consider lining the interior surfaces of hoppers, storage bins, and chutes with sound-deadening material (i. e., apply wood or rubber sheet liners to metal bin surfaces and thus help reduce impact-type noise due to dropped hard materials on these otherwise hard surfaces).

2 Methodology

The prediction technique used to estimate traffic noise associated with selected Project vicinity roadway segments was the Federal Highway Administration (FHWA) Traffic Noise Prediction Model (“TNM”, version 2.5, FHWA 2004). The results of the traffic noise model are contained in Appendix B.

To help validate the TNM prediction results representing the existing conditions scenario, this noise analysis quantified and characterized the pre-project or “baseline” outdoor ambient sound environment by way of investigator-attended short-term (ST, of 10- to 15-minute duration each) sound pressure level (SPL) measurements conducted at ten representative sites (described in Section 3). Unattended SPL monitors were also deployed to gather data over multiple-hour and multi-day periods and thus help inform how the ambient sound levels change with varying environmental conditions and factors. Plots of SPL measurement data from these “long-term” (LT) monitors appear in Appendix C. Selected SPL data collected from these field surveys in the project vicinity provided a means to validate predictions of existing roadway traffic noise, so that the same model could be used (with different traffic volume input data) to predict noise levels for future-year scenarios with and without contribution from the proposed project. In this context, validation of the existing conditions scenario was affirmed based on comparison of predicted SPL and survey-measured SPL being less than 3 dB apart (a barely perceptible difference).

Predictions of stationary noise sources (e.g., HVAC) on the proposed project site included modeling sound propagation of noise from rooftop air-handling units and underground parking garage ventilation fans with CadnaA—a commercially available software program that allows modeling of sound emission from multiple sources in a three-dimensional outdoor space. Noise from a well-attended future event at the proposed new stadium located at the northwestern corner of the project site, such as an SDSU football game, was also included in the stationary noise model scenarios. Prediction model inputs and calculations for these operations-related noise level estimates appear in Appendix D.

Noise and vibration levels resulting from the proposed project construction activities have been predicted with techniques and reference equipment noise data from reports prepared by the Federal Transit Administration (FTA 2018), the FHWA (FHWA 2006), the California Department of Transportation (Caltrans 2013a), and field data from previous SPL measurement surveys. The assumptions regarding expected types and quantities of construction equipment and duration of construction activities per anticipated project phase are based on information provided by SDSU. The noise impact assessment utilized criteria established in the City of San Diego General Plan Noise Element (City of San Diego 2008) and Noise Ordinance. Prediction model inputs and calculations for construction noise appear in Appendix E.

2.1 Acoustical Concepts

The following is a brief discussion of noise and vibration fundamental concepts, to supplement and expand on the terms and descriptors introduced by Appendix A.

Sound, Noise, and Acoustics

Sound is oscillation that travels through the air or another medium, entailing a process that consists of three components: the source, the path, and the receiver. All three components must be present for sound to exist and be perceived. Without a source to produce sound, there is no sound. Likewise, without a medium to transmit sound

pressure waves, there is no sound. Finally, sound must be received; a hearing organ, sensor, or object must be present to perceive, register, or be affected by sound or noise. In most situations, there are many different sound sources, paths, and receptors rather than just one of each. Acoustics is the field of science that deals with the production, propagation, reception, effects, and control of sound. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired.

Sound Pressure Levels and Decibels

The amplitude of a sound determines its loudness. Loudness of sound increases with increasing amplitude. Sound pressure amplitude is measured in units of micro-Newton per square meter, also called micro-Pascal. One micro-Pascal is approximately one-hundred billionths (0.0000000001) of normal atmospheric pressure. The pressure of a very loud sound may be 200 million micro-Pascals, or 10 million times the pressure of the weakest audible sound. Because expressing sound levels in terms of micro-Pascal would be very cumbersome, sound pressure level in logarithmic units is used instead to describe the ratio of actual sound pressures to a reference pressure squared. These units are called Bels. To provide a finer resolution, a Bel is subdivided into 10 decibels, abbreviated dB.

A-Weighted Sound Level

Sound pressure level alone is not a reliable indicator of loudness. The frequency, or pitch, of a sound also has a substantial effect on how humans will respond. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness or human response is determined by the characteristics of the human ear.

Human hearing is limited not only in the range of audible frequencies but also in the way it perceives the sound in that range. In general, the healthy human ear is most sensitive to sounds between 1,000 Hertz (Hz) and 5,000 Hz, and it perceives a sound within that range as more intense than a sound of higher or lower frequency with the same magnitude. To approximate the frequency response of the human ear, a series of sound level adjustments is usually applied to the sound measured by a sound level meter. The adjustments (referred to as a weighting network) are frequency-dependent.

The A-scale weighting network approximates the frequency response of the average healthy ear when listening to most ordinary sounds. When people make judgments of the relative loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Other weighting networks have been devised to address high noise levels or other special situations (e.g., B-scale, C-scale, D-scale), but these scales are rarely used in conjunction with most environmental noise. Noise levels are typically reported in terms of A-weighted sound levels. All sound levels discussed in this report are A-weighted (dBA). Examples of typical noise levels for common indoor and outdoor activities are depicted in Table 2.

Table 2. Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dB)	Common Indoor Activities
	110	Rock Band
Jet Fly-over at 300 meters (1,000 feet)	100	
Gas Lawn Mower at 1 meter (3 feet)	90	
Diesel Truck at 15 meters (50 feet), at 80 kilometers/hour (50 miles/hour)	80	Food Blender at 1 meter (3 feet) Garbage Disposal at 1 meter (3 feet)
Noisy Urban Area, Daytime Gas Lawn Mower at 30 meters (100 feet)	70	Vacuum Cleaner at 3 meters (10 feet)

Table 2. Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dB)	Common Indoor Activities
Commercial Area Heavy Traffic at 90 meters (300 feet)	60	Normal Speech at 1 meter (3 feet)
Quiet Urban Daytime	50	Large Business Office Dishwasher Next Room
Quiet Urban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	30	Library
Quiet Rural Nighttime	20	Bedroom at Night, Concert Hall (Background)
	10	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing

Source: Caltrans 2013a.

Human Responses to Changes in Noise Levels

Under controlled conditions in an acoustics laboratory, the trained, healthy human ear is able to discern changes in sound levels of 1 dB when exposed to steady, single-frequency signals in the mid-frequency range. Outside such controlled conditions, the trained ear can detect changes of 2 dB in normal environmental noise. It is widely accepted that the average healthy ear, however, can barely perceive noise level changes of 3 dB. A change of 5 dB is readily perceptible, and a change of 10 dB is perceived as twice or half as loud. As discussed above, a doubling of sound energy results in a 3 dB increase in sound, which means that a doubling of sound energy (e.g., doubling the volume of traffic on a road) would result in a barely perceptible change in sound level.

Noise Descriptors

Additional units of measure have also been developed to evaluate the long-term characteristics of sound. The equivalent sound level (L_{eq}), is also referred to as the time-average sound level. It is the equivalent steady state sound level which in a stated period of time would contain the same acoustical energy as the time-varying sound level during the same time period. The 1-hour A-weighted equivalent sound level, $L_{eq,1h}$, is the energy average of the A-weighted sound levels occurring during a 1-hour period and is the basis for the City of San Diego noise ordinance criteria.

People are generally more sensitive and annoyed by noise occurring during the evening and nighttime hours. Thus, another noise descriptor used in community noise assessments, the Community Noise Equivalent Level (CNEL), was introduced. The CNEL scale represents a time-weighted 24-hour average noise level based on the A-weighted sound level. The CNEL accounts for the increased noise sensitivity during the evening hours (7:00 p.m. to 10:00 p.m.) and nighttime hours (10:00 p.m. to 7:00 a.m.) by adding 5 dB and 10 dB, respectively, to the average sound levels occurring during the nighttime hours.

Sound Propagation

Sound propagation (i.e., the passage of sound from a noise source to a receiver) is influenced by several factors. These factors include geometric spreading, ground absorption, and atmospheric effects, as well as shielding by natural and/or man-made features. Sound levels are attenuated at a rate of approximately 6 dB per doubling of distance from an outdoor point source due to the geometric spreading of the sound waves. Additional sound attenuation can result from man-made features such as intervening walls and buildings, as well as natural features such as hills and dense woods. Atmospheric conditions such as humidity, temperature, and wind gradients can

temporarily either increase or decrease sound levels. In general, the greater the distance the receiver is from the source, the greater the potential for variation in sound levels due to atmospheric effects.

Vibration

Groundborne vibration is a small, rapidly oscillating motion transmitted through the ground. The strength of groundborne vibration attenuates fairly rapidly over distance. Some soil types transmit vibration quite efficiently; other types (primarily sandy soils) do not. Several basic measurement units are commonly used to describe the intensity of ground vibration. The descriptors used by the Federal Transit Administration (FTA) are peak particle velocity (PPV), in units of inches per second, and vibration velocity decibel (VdB). The calculation to determine PPV at a given distance is as follows:

$$PPV_{dist} = PPV_{ref} * (25/D)^{1.5}$$

In the above expression PPV_{dist} = the peak particle velocity in inches per second (ips) of the vibrating equipment (or transient vibration source, such as a pile-driver hammer drop or controlled detonation) adjusted for distance; PPV_{ref} = the reference vibration level in ips at 25 feet; and, D = the distance from the vibration source to the receiver.

The velocity parameter (instead of acceleration or displacement) best correlates with human perception of vibration. Thus, the response of humans, buildings, and sensitive equipment to vibration is described in this report in terms of the root-mean square (rms) velocity level in VdB units relative to 1 micro-inch per second. As a point of reference, the average person can just barely perceive vibration velocity levels below 70 VdB (typically in the vertical direction). The calculation to determine the rms at a given distance is as follows:

$$L_v(D) = L_v(25 \text{ feet}) - 30 * \log(D/25)$$

where: $L_v(D)$ = the vibration level at the receiver; $L_v(25 \text{ feet})$ = the reference source vibration level; and D = the distance from the vibration source to the receiver.

Typical background vibration levels in residential areas are no greater than 50 VdB (FTA 2018); and the vibration velocity level at which most residential building occupants will detect and become annoyed with is approximately 94 VdB, or 0.2 inches per second rms PPV. The risk level for minor cosmetic damage to typical residential buildings featuring non-engineered timber and masonry is comparable, generally beginning at 94 VdB, or a PPV value of 0.2 inches per second (FTA 2018).

3 Existing Conditions

Sound pressure level measurements were conducted around the project site vicinity to determine the existing noise levels. The daytime, short-term (i.e., measurement duration of 1 hour or less) investigator-attended sound level measurements were taken with a Rion NL-52 sound-level meter. This sound-level meter meets the current American National Standards Institute (ANSI) standard for a Type 1 precision sound-level meter. The calibration of the sound-level meter was verified before and after the measurements were taken, and the measurements were conducted with the microphone positioned approximately 5 feet above the ground.

The existing or “baseline” outdoor noise level measurements were conducted on three separate occasions:

- Monday, December 31, 2018, during the Holiday Bowl NCAA collegiate football bowl game event in progress at the existing SDCCU Stadium; and,
- Thursday, January 24, 2019, as part of a multi-day, field survey during “typical” conditions that include non-holiday roadway traffic and no event at the existing SDCCU Stadium.
- Thursday, May 23, 2019, to measure representative outdoor ambient sound levels in the riparian area immediately south of the existing stadium southern fence line.

The noise level measurement locations are depicted as Sites ST1 through ST10 in Figure 5, Noise Measurement Locations. These field survey sites were selected on the basis of providing samples of typical outdoor ambient noise levels at existing and potential future representative noise-sensitive land uses (NSLUs) in the project vicinity. The two riparian area noise level measurement sites are distinguished from the previous set as ST-R1 and ST-R2. As shown in Table 3, the measured energy-averaged noise level (L_{eq}) ranged from 50 dBA at ST10 to 76 dBA at ST1 during the December 31, 2018, field survey; and, 52 dBA at ST9 to 77 dBA at ST1 during the January 24, 2019, field survey.

Table 3. Measured Outdoor Ambient Noise Level and Traffic Conditions

Site	Location/ Description	Holiday Bowl (holiday roadway traffic, major event at existing Stadium)			Typical Weekday (non-holiday roadway traffic, no major event at existing Stadium)		
		Date/Time	L_{eq}	L_{max}	Date/Time	L_{eq}	L_{max}
ST1	Bella Posta Apartments, east of I-15	2018-12-31, 1:00 p.m. to 1:10 p.m.	76	80.9	2019-01-24, 11:30 a.m. to 11:40 a.m.	77	81.3
ST2	West of Rancho Mission Villas, east of I-15: <i>no event fireworks</i>	2018-12-31, 5:51 p.m. to 5:53 p.m.	68	72.8	2019-01-24, 11:45 a.m. to 11:55 a.m.	72	74.3
ST2	West of Rancho Mission Villas, east of I-15: <i>during event fireworks</i>	2018-12-31, 5:54 p.m. to 6:00 p.m.	85	95.3	n/a	n/a	n/a
ST3	South of Friars Road, entrance to Qualcomm Way	n/a	n/a	n/a	2019-01-24, 12:35 p.m. to 12:45 p.m.	70	82

Table 3. Measured Outdoor Ambient Noise Level and Traffic Conditions

Site	Location/ Description	Holiday Bowl (holiday roadway traffic, major event at existing Stadium)			Typical Weekday (non-holiday roadway traffic, no major event at existing Stadium)		
		Date/Time	<i>L_{eq}</i>	<i>L_{max}</i>	Date/Time	<i>L_{eq}</i>	<i>L_{max}</i>
ST4	Cul-de-sac at the northern end of Cromwell Court	2018-12-31, 7:49 p.m. to 7:58 p.m.	57	68.3	n/a	n/a	n/a
ST5	South of 2385 Northside Drive San Diego, CA 92108	2018-12-31, 5:19 p.m. to 5:28 p.m.	60	76.9	2019-01-24, 12:27 p.m. to 12:37 p.m.	54	59.4
ST6 (at LT5)	Southern stadium fenceline (across from trolley station)	2018-12-31, 11:54 a.m. to 12:08 p.m.	63	68.6	n/a	n/a	n/a
ST6A (at LT5a)	South of San Diego River, East of Mission City Parkway	n/a	n/a	n/a	2019-01-24, 12:05 p.m. to 12:15 p.m.	65	66.4
ST7	Mission Valley Public Library, North of Fenton Parkway	2018-12-31, 5:00 p.m. to 5:09 p.m.	60	68	2019-01-24, 11:34 a.m. to 11:40 a.m.	59	63.6
LT4A	Backyard of 5399 Wilshire Drive	2018-12-31, 1:55 p.m. to 2:04 p.m.	72	74.6	n/a	n/a	n/a
ST8	Southeast corner of Caminito Cascara and Rancho Mission Road	n/a	n/a	n/a	2019-01-24, 11:52 a.m. to 12:02 p.m.	67	77.8
ST9	South Stairs of Juarez Elementary School	2018-12-31, 4:06 p.m. to 4:15 p.m.	55	65.3	2019-01-24, 10:35 a.m. to 10:40 a.m.	52	63.5
ST10	East of 2340 Harcourt Drive San Diego, CA 92123	2018-12-31, 4:36 p.m. to 4:45 p.m.	50	64.8	2019-01-24, 10:48 a.m. to 10:53 a.m.	53	59.6
ST-R1	San Diego River riparian area, north of ST6A	n/a	n/a	n/a	2019-05-23, 9:30 a.m. to 9:40 a.m.	64	68.6
ST-R2	San Diego River riparian area, north of ST6	n/a	n/a	n/a	2019-05-23, 10:00 a.m. to 10:10 a.m.	59	66.2

Notes: *L_{eq}* = Equivalent Continuous Sound Level (Time-Average Sound Level); *L_{max}* = Maximum Noise Level.

In general, at survey positions ST1, ST2, ST5, ST7, ST9, and ST10 where attended SPL measurements were performed during both the Holiday Bowl event day (December 31, 2018) and a subsequent weekday without an event taking place at the existing stadium, *L_{eq}* values from the sampling periods were comparable and no more than 3 dBA apart. The SPL measurement at ST5 during the Holiday Bowl event was 6 dBA higher than that of the subsequent survey result, but it included event-attributed intermittent sounds as suggested by the much higher *L_{max}* value during the measurement period.

Unattended long-term (“LT”, for several consecutive hours or consecutive diurnal cycles) SPL measurements were also performed during the two aforesaid field surveys to yield empirical data to exhibit how project vicinity outdoor ambient noise levels may vary over a sample 24-hour period, and over successive days, due nearby roadway traffic

flows and other observed environmental factors. Appendix C presents plots of L_{eq} values collected at a variety of surveyed positions identified geographically in Figure 5. Key findings from study of these LT plots are as follows:

- As measured at LT1, a survey location on the edge of the western Bella Posta Apartments parking lot that adjoins the I-15 northbound easement, SPL dominated by highway traffic noise was generally higher during the 1:00 p.m. to 8:00 p.m. period on December 31, 2018, when compared with the same 7-hour time period on January 24, 2019. A pronounced “spike” of approximately 10 minutes in duration is consistent with the observed fireworks performed over the stadium as part of the Holiday Bowl festivities.
- As measured at LT4A, a survey location on northern edge of a residential property overlooking the stadium and the I-15/I-8 interchange, SPL dominated by highway traffic noise was generally higher during a measured 19-hour period (beginning at 2:00 p.m. on December 31, 2018, and continuing to 11:00 a.m. on January 1, 2019) when compared with the same consecutive hours from January 24–25, 2019. A noise level spike occurs during the aforementioned Holiday Bowl fireworks. Further, although apparent highway traffic noise appears to drop significantly before midnight and the onset of New Year’s Day, apparent traffic noise rises sharply and then tapers gradually to lower levels as the early morning hours of New Year’s Day transpire—suggesting that many motorists were driving back home after attending New Year’s Eve festivities. In contrast, the pattern of noise level rise and decline for the January 24–25, 2019, period appears representative of typical expected conditions: during the day, there is prominence associated with usual commuter traffic peaks in the morning, afternoon and evening. At night, SPL during the January 24–25, 2019, period dips down from daytime highs in the mid-70s to nearly 60 dBA.

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4 Regulatory Setting

4.1 Federal

The Noise Control Act of 1972 recognized the role of the federal government in dealing with major commercial noise sources, which require uniform treatment. Since Congress has the authority to regulate interstate and foreign commerce, regulation of noise generated by such commerce also falls under congressional authority. The federal government specifically preempts local control of noise from aircraft, railroads, and interstate highways. The U.S. Environmental Protection Agency has identified acceptable noise levels for various land uses to protect the public, with an adequate margin of safety, and established noise emission standards for interstate commerce.

The U.S. Department of Housing and Urban Development standards define day-night average sound (L_{dn}) levels below 65 dBA outdoors as acceptable for residential areas. Outdoor levels up to 75 dBA L_{dn} may be made acceptable through the use of insulation in buildings.

4.2 State

The pertinent State of California noise regulations are contained in the California Code of Regulations. Title 24, Noise Insulation Standards, establishes the acceptable interior environmental noise level (45 dBA L_{dn}) for multifamily dwellings (may be extended by local legislative action to include single-family dwellings). California Code of Regulations Section 65302(f) requires local land use planning jurisdictions to prepare a general plan. The Noise Element is a mandatory component of the general plan. It may include general community noise guidelines developed by the California Department of Health Services and specific planning guidelines for noise/land use compatibility developed by the local jurisdiction. The state guidelines also recommend that the local jurisdiction should consider adopting a local noise control ordinance. The State of California General Plan Guidelines include a commonly referenced bar chart for community noise acceptability ranges for use by local agencies (OPR 2017). Selected relevant levels are as follows (L_{dn} /DNL may be considered approximately equivalent to CNEL):

- CNEL below 60 dBA—normally acceptable for low-density residential use;
- CNEL of 55 to 70 dBA—conditionally acceptable for low-density residential use;
- CNEL below 65 dBA—normally acceptable for high-density residential use;
- CNEL of 60 to 70 dBA—conditionally acceptable for high-density residential use, transient lodging, churches, educational and medical facilities; and
- CNEL below 70 dBA—normally acceptable for playgrounds and neighborhood parks.

“Normally acceptable” is defined as satisfactory for the specified land use, assuming that normal conventional construction is used in buildings. “Conditionally acceptable” may require some additional noise attenuation or special study. Under most of these land use categories, overlapping ranges of acceptability and unacceptability are presented, leaving some ambiguity in areas where noise levels fall within the overlapping range.

The State of California additionally regulates the noise emission levels of licensed motor vehicles traveling on public thoroughfares, sets noise emission limits for certain off-road vehicles and watercraft, and sets required sound levels for light-rail transit vehicle warning signals. The extensive state regulations pertaining to worker noise exposure are,

for the most part, applicable only to the construction phase of any project (e.g., the Cal/OSHA Occupational Noise Exposure Regulations [8 CCR, General Industrial Safety Orders, Article 105, Control of Noise Exposure, Section 5095, et seq.]) or workers in a central plant and/or a maintenance facility or involved in the use of landscape maintenance equipment or heavy machinery.

4.3 Local

The property comprising the project site is located in the northeast portion of the Mission Valley community (see Figure 1, Project Region), which is located in the City of San Diego (City), and would have the potential to impact off-campus NSLUs in the City.

As a state agency, SDSU is not subject to local land use regulatory/planning documents, ordinances, regulations, policies, rules, fees, or exactions. However, CSU is willing to purchase the project site pursuant to the framework set forth in Section 22.0908 and the Purchase and Sale Agreement, in order to implement the overriding purpose of the proposed project. In addition, CSU will evaluate the proposed project’s consistency with adopted, applicable state and federal regulatory/planning documents; and though not required by law, CSU also will consider the proposed project’s consistency with adopted, applicable local regulatory/planning documents.

In light of the above and for the limited purposes of this noise analysis, the following excerpts from the City’s noise ordinance represent guidance for assessing impacts.

City of San Diego Municipal Code 59.5.0401 (Noise Ordinance)

It shall be unlawful for any person to cause noise by any means to the extent that the 1-hour average sound level exceeds the applicable limit given in the Table 4, Applicable Noise Limits, at any location in the City of San Diego on or beyond the boundaries of the property on which the noise is produced. The noise subject to these limits is that part of the total noise at the specified location that is due solely to the action of said person.

Table 4. Applicable Noise Limits

Land Use	Time of Day	One-Hour Average Sound Level (dB)
Single-family residential	7:00 a.m. to 7:00 p.m.	50
	7:00 p.m. to 10:00 p.m.	45
	10:00 p.m. to 7:00 a.m.	40
Multifamily residential (up to a maximum density of 1/2,000)	7:00 a.m. to 7:00 p.m.	55
	7:00 p.m. to 10:00 p.m.	50
	10:00 p.m. to 7:00 a.m.	45
All other residential	7:00 a.m. to 7:00 p.m.	60
	7:00 p.m. to 10:00 p.m.	55
	10:00 p.m. to 7:00 a.m.	50
Commercial	7:00 a.m. to 7:00 p.m.	65
	7:00 p.m. to 10:00 p.m.	60
	10:00 p.m. to 7:00 a.m.	60
Industrial or agricultural	Any time	75

Note: dB = decibels

City of San Diego Municipal Code 59.5.0404 (Noise Ordinance), Construction Noise

- (a) It shall be unlawful for any person, between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays as specified in Section 21.04 of the San Diego Municipal Code, with exception of Columbus Day and Washington’s Birthday, or on Sundays, to erect, construct, demolish, excavate for, alter or repair any building or structure in such a manner as to create disturbing, excessive or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator. In granting such permit, the Administrator shall consider whether the construction noise in the vicinity of the proposed work site would be less objectionable at night than during the daytime because of different population densities or different neighboring activities; whether obstruction and interference with traffic particularly on streets of major importance, would be less objectionable at night than during the daytime; whether the type of work to be performed emits noises at such a low level as to not cause significant disturbances in the vicinity of the work site; the character and nature of the neighborhood of the proposed work site; whether great economic hardship would occur if the work were spread over a longer time; whether proposed night work is in the general public interest; and he shall prescribe such conditions, working times, types of construction equipment to be used, and permissible noise levels as he deems to be required in the public interest.
- (b) Except as provided in subsection C. hereof, it shall be unlawful for any person, including the City of San Diego, to conduct any construction activity so as to cause, at or beyond the property lines of any property zoned residential, an average sound level greater than 75 decibels during the 12-hour period from 7:00 a.m. to 7:00 p.m.
- (c) The provisions of subsection B. of this section shall not apply to construction equipment used in connection with emergency work, provided the Administrator is notified within 48 hours after commencement of work.

City of San Diego General Plan

The City’s General Plan Noise Element identifies compatible exterior noise levels for various land use types (City of San Diego 2008). The maximum allowable noise exposure varies depending on the land use. The maximum acceptable exterior noise level for residential uses and other noise-sensitive uses (including kindergarten through 12th grade schools, libraries, hospitals, daycare facilities, hotels, motels) is 65 dBA CNEL. However, exterior noise levels are considered compatible up to 75 dBA CNEL at higher education institutions.

City of San Diego Significance Determination Thresholds

The City of San Diego’s California Environmental Quality Act (CEQA) Significance Determination Thresholds outline the criteria and thresholds used to determine whether project impacts are significant (City of San Diego 2011). The following thresholds and context, categorized by noise sources or type of potentially impacted receptors, have been used in this analysis for identifying potentially significant noise impacts as a result of implementation of the proposed project:

Interior and Exterior Noise Impacts from Traffic-Generated Noise

The City’s CEQA Significance Determination Thresholds provide guidance on implementing the City’s noise policies and ordinances, including the general thresholds of significance for uses affected by traffic noise included in Table 5.

As shown in Table 5, the noise level at exterior usable open space for single- and multifamily residences should not exceed 65 dBA (City of San Diego 2011).

Operational noise is typically considered permanent, in the sense of the duration of the operation of the constructed facility, while not continuous in nature and occurring only when the stadium is hosting an event (in progress). A significant permanent increase is defined as a direct project-related permanent ambient increase of 3 dBA or greater, where exterior noise levels would already exceed the City’s significance thresholds (City of San Diego 2011) (e.g., 65 dBA daytime for single-family residential land uses). An increase of 3 dBA is perceived by the human ear as a barely perceptible increase.

Table 5. City of San Diego Traffic Noise Significance Thresholds

Structure of Proposed Use That Would Be Impacted by Traffic Noise	Interior Space	Exterior Useable Space ¹	General Indication of Potential Significance
Single-family detached	45 dB	65 dB	Structure or outdoor useable area ² is <50 feet from the center of the closest (outside) lane on a street with existing or future ADTs >7,500
Multi-family, school, library, hospital, day care center, hotel, motel, park, convalescent home	Development Services Department ensures 45 dB pursuant to Title 24	65 dB	
Office, church, business, Professional uses	n/a	70 dB	Structure or outdoor useable area is <50 feet from the center of the closest lane on a street with existing or future ADTs >20,000
Commercial, retail, industrial, outdoor sports uses	n/a	75 dB	Structure or outdoor useable area is <50 feet from the center of the closest lane on a street with existing or future ADTs >40,000

Source: City of San Diego 2011.

Notes: ADT = average daily traffic

- ¹ If a project is currently at or exceeds the significance thresholds for traffic noise described above, and noise levels would result in less than a 3-dB increase, then the impact is not considered significant.
- ² Exterior useable areas do not include residential front yards or balconies unless the areas such as balconies are part of the required useable open space calculation for multifamily units.

Noise from Adjacent Stationary Uses (Noise Generators)

The Noise Ordinance also limits property line noise levels for various land uses by time of day for noise generated by on-site sources associated with project operation (Table 4), (e.g., for multifamily residential, 55 dBA Leg from 7:00 a.m. to 7:00 p.m., 50 dBA Leq from 7:00 p.m. to 10:00 p.m., and 50 dBA Leq from 10:00 p.m. to 7:00 a.m.). A project that would generate noise levels at the property line that exceed the City’s Noise Ordinance Standards is considered potentially significant (such as potentially a carwash or projects operating generators or noisy equipment). If a nonresidential use, such as a commercial, industrial, or school use, is proposed to abut an existing residential use, the decibel level at the property line should be the arithmetic mean of the decibel levels allowed for each use as set forth in Section 59.5.0401 of the Municipal Code (Table 4). Although the noise level above could be consistent with the City’s Noise Ordinance Standards, a noise level above 65 dBA CNEL at the residential property line could be considered a significant environmental impact.

Impacts to Sensitive Wildlife

Noise mitigation may be required for significant noise impacts to certain avian species during their breeding season depending upon the location of the slope (such as adjacent to a Multi-Habitat Planning Area [MHPA]) and what birds may be present in the area, such as the California gnatcatcher, least Bell’s vireo, southern willow flycatcher, least tern, cactus

wren, tricolored blackbird, western snowy plover, or burrowing owl. If these avian species (except for the California gnatcatcher) are present, then mitigation will be required if construction or operational noise levels would exceed 60 dBA or the existing ambient noise level if already above 60 dBA during the breeding season. For California gnatcatcher habitat within the MHPA and occupied as confirmed by biological survey, construction or operational noise levels exceeding 60 dBA (or exceeding the existing ambient noise level if already above 60 dBA) during the breeding season is considered significant. There are no restrictions for the gnatcatcher outside the MHPA anytime of the year.

As potential examples of the above, and if such habitat within the MHPA were to be confirmed by a properly performed biological survey, the measured outdoor ambient noise level of 64 dBA L_{eq} at representative riparian location ST-R1 indicates that project-attributed construction noise could be as loud as—but not exceed—this pre-existing environmental sound level in the vicinity of this position during the California gnatcatcher breeding season. At the other measured riparian location, ST-R2, the allowable project construction noise would be 60 dBA in its vicinity since the pre-existing outdoor ambient is 59 dBA and thus slightly less than this threshold value.

Temporary Construction Noise and Sound Level Limits

Temporary construction noise that exceeds 75 dBA L_{eq} at a sensitive receptor would be considered significant. Construction noise levels measured at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 75 dB during the 12-hour period from 7:00 a.m. to 7:00 p.m. In addition, construction activity is prohibited between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays as specified in SDMC Section 21.04, with the exception of Columbus Day and Washington's Birthday, or on Sundays, that would create disturbing, excessive, or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator, in conformance with SDMC Section 59.5.0404. Additionally, where temporary construction noise would substantially interfere with normal business communication, or affect sensitive receptors, such as day care facilities, a significant noise impact may be identified.

Noise/Land Use Compatibility

The City's General Plan Noise Element, Table 3, indicates the City's exterior unconditional "compatible" noise level standard for noise-sensitive areas is 60 dBA CNEL (City of San Diego 2011). The City assumes that standard construction design techniques would provide a 15 dB reduction of exterior noise levels to interior noise levels of 45 dBA CNEL or less when exterior sources are 60 dBA CNEL or less. When exterior noise levels are greater than 60 dBA CNEL and the interior threshold is 45 dBA CNEL, consideration of specific construction techniques is required. Areas with exterior noise levels of up to 70 dBA CNEL are "conditionally compatible" provided that the building structure attenuates interior noise levels to 45 dBA CNEL.

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5 Significance Criteria

Appendix G of the CEQA Guidelines states that a project would result in a potentially significant impact related to noise if the project would result in:

1. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
2. Generation of excessive groundborne vibration or groundborne noise levels.
3. For a project located within the vicinity of a private airstrip or an airport land use plan or 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, would the project expose people residing or working in the project area to excessive noise levels.

In analyzing impacts related to these significance criteria, pertinent noise regulations and other standards, introduced in Section 4, are considered and utilized as addressed below.

Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.

For temporary construction activities associated with the proposed project, which are anticipated to be carried out as sequential phases (but as appropriate may have concurrent activities across the project site), generated noise that exceeds 75 dBA L_{eq} over a 12-hour period at the property line of a residentially zoned receptor would be considered significant per Section 59.5.0404(b) of the City's Noise Ordinance.

For stationary sound sources attributed to the proposed project, exceedance of the City's 1-hour average sound level limits would constitute a significant impact. For example, at the multifamily residential properties (Monte Vista) to the northwest of the proposed project, the daytime, evening, and nighttime noise limits would be 55 dBA L_{eq1h} , 50 dBA L_{eq1h} , and 45 dBA L_{eq1h} , respectively.

For project-attributed increases to local roadway traffic volumes, a significant permanent increase to the outdoor sound environment would be defined as an increase of 3 dBA or greater, where exterior noise levels would already exceed the City's significance thresholds (City of San Diego 2011) (e.g., 65 dBA daytime for single-family residential land uses). An increase of 3 dBA is perceived by the average healthy human ear as barely perceptible.

Generation of excessive groundborne vibration or groundborne noise levels.

Due to a lack of vibration level regulation or policy guidance at the local level, this impact analysis will apply FTA and Caltrans guidance that suggests 0.2 ips PPV (or 94 VdB) as both an annoyance-based criterion for occupants of inhabited buildings and a risk level for minor cosmetic damage to typical residential buildings featuring non-engineered timber and masonry (Caltrans 2013b).

For a project located within the vicinity of a private airstrip or an airport land use plan or 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, would the project expose people residing or working in the project area to excessive noise levels.

The project is not located within the vicinity of a private airstrip, public airport, or otherwise exposed to excessive noise levels due to normal aviation traffic.

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6 Impact Analysis

6.1 Ambient Noise Level Increase

Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Temporary Increase (Construction)

Conventional Equipment

Development activities for project construction would generally involve the following sequence for all three defined phases of construction of the proposed project: (1) site grading, (2) trenching, (3) building construction, (4) architectural coating, and (5) paving.

The following are typical types of construction equipment that would be expected:

- Concrete/industrial saws
- Excavators
- Dozers
- Tractors/loaders/backhoes
- Forklifts
- Welders
- Cement and mortar mixers
- Paving equipment
- Trenching equipment
- Off-highway water trucks
- Pile drivers (and comparable equipment or activities, such as dynamic compactors)
- Asphalt trucks
- Materials delivery trucks
- Pneumatic tools
- Graders
- Cranes
- Generator sets
- Air compressors
- Pavers
- Scrapers
- Rollers
- Concrete trucks

As demonstrated by this list, construction equipment anticipated for all phases of project development would include standard equipment that would be employed for any routine construction project of this scale. The proposed project would also include demolition of the existing stadium structure. While controlled detonation is not anticipated to be used, demolition may include controlled detonation in lieu of a mechanical means of rendering the structure into materials that can be re-used on site or transported off site, or to supplement a mechanical means of demolition.

Construction noise is difficult to quantify because of the many variables involved, including the specific equipment types, size of equipment used, percentage of time, condition of each piece of equipment, and number of pieces of equipment that will actually operate on the site. The range of maximum noise levels for various types of construction equipment at a distance of 50 feet is depicted in Table 6.

The noise values represent maximum noise generation, or full-power operation of the equipment. As an example, a loader and two dozers, all operating at full power and relatively close together, would generate a maximum sound

level of approximately 86 dBA at 50 feet from their operations. As one increases the distance between equipment, or separation of areas with simultaneous construction activity, dispersion and distance attenuation reduce the effects of separate noise sources added together. In addition, typical operating cycles may involve 2 minutes of full-power operation, followed by 3 or 4 minutes at lower levels. The average noise level during construction activities is thus generally lower than the aggregate of maximum sound levels, since maximum noise generation may only occur up to 40-50% of the time.

Table 6. Construction Equipment Noise Emission Levels

Equipment	Typical Sound Level (L _{max} , dBA) 50 Feet from Source
All Other Equipment > 5 HP	85
Backhoe	78
Compressor (Air)	78
Concrete Saw	90
Crane	81
Dozer	82
Excavator	81
Front End Loader	79
Generator	72
Grader	85
Man Lift	75
Mounted Impact Hammer (hoe ram)	90
Paver	77
Roller	80
Scraper	84
Tractor	84
Welder / Torch	73

Source: FTA 2018.

Off-Site Noise Impacts from Daytime Construction

The nearest off-site sensitive receptors to the on-site project site construction work would be the multifamily homes (i.e., Monte Vista Apartment Homes [MVAH]) to the northwest of the project boundary identified as “Multi-Family Residential” in Figure 3 and are on the north side of Friars Road across from the baseline noise level measurement position ST3/LT3A appearing in Figure 5. Noise levels generated by construction equipment (or by any point source) decrease at a rate of approximately 6 dBA per doubling of distance from the source (Beranek & Ver 1992). Therefore, if a particular construction activity generated average noise levels of 88 dBA at 50 feet, the L_{eq} would be 82 dBA at 100 feet, 76 dBA at 200 feet, 70 dBA at 400 feet, and so on. Intervening structures that block the line of sight, such as buildings, would further decrease the resultant noise level by a minimum of 5 dBA. The effects of molecular air absorption provide an additional source of attenuation that is often approximated for “standard air” (10° Centigrade, 70% relative humidity) at a rate of 1 dBA per 1,000 feet.

The closest point of construction activities to the nearest noise-sensitive receivers would be approximately 175 feet during off-site improvements to Friars Road and San Diego Mission Road. The noise levels from the construction equipment to nearby sensitive receptors would be nominal given the distance between the construction activity area and high existing ambient noise level. The estimated construction noise levels (expressed as 12-hour L_{eq} values) at nearby NSLUs are summarized in Table 7. Detail of the construction noise prediction calculations are in Appendix E.

Table 7. Construction Noise Modeling Summary Results

Construction Phase	Distance to Nearest Receiver (feet)	Predicted 12-hour Leq (dBA)
Grading Phase A	450	70.9
Site Preparation Phase A	600	65.1
Building Construction Stadium (Phase A)	600	63.5
Grading Phase A (cont'd)	450	70.6
Grading Phase B (Rough Residential Pad & Initial River Parks)	475	71.5
Site Preparation Phase B (utilities)	1,200	58.1
Paving Stadium (Phase A)	200	72.9
Demolition of SDCCU (Phase A)	1,200	69.9
Architectural Coating Stadium (Phase A)	600	58.5
Demolition of SDCCU (Phase B)	1,200	68.0
Finish Phase B (Finish Residential Pad and River Park)	450	67.9
Grading Phase C	450	71.9
Building Construction Phase C1	450	65.9
Site Preparation - Off-Site Improvements	175	73.1
Paving Phase C1	450	65.2
Architectural Coating Phase C1	600	55.4
Building Construction Phase C2	450	66.4
Paving Phase C2	450	66.1
Architectural Coating Phase C2	600	55.4
Building Construction Phase C3	800	58.0
Paving Phase C3	450	65.2
Architectural Coating Phase C3	450	57.9

As shown in Table 7, the noise levels during construction-related activities would be below the City's 75 dBA 12-hour average noise level criterion at the nearest off-site NSLUs. Thus, temporary off-site construction noise impacts from construction on the project site would be **less than significant**.

Nighttime Construction

It is anticipated that nighttime construction would be necessary during some portions of project development. Between approximately January 1, 2022, and August 31, 2022, in order to complete the stadium, around-the-clock construction activities (i.e., 24 hours per day) would be required. Under such circumstances, nighttime construction activity would occur outside of the City's allowable 7:00 a.m. to 7:00 p.m. daytime period and potentially expose nearby noise-sensitive receptors to sound levels that, depending on activity location, intensity, equipment type and quantities that are not clearly defined at the time of this writing, could exceed City hourly Leq thresholds during evening and nighttime periods (i.e., 7:00 p.m. to 7:00 a.m.) and thereby result significant and potentially unavoidable impacts even after implementation of practical noise mitigation measures such as those listed in Section 7.

Off-site Improvements

It is estimated that there will be off-site construction potentially for utility connections and/or road improvements, the locations of which may be suggested by the TIA but remain to be determined as of this writing. Depending on factors that include the proximity of construction activity to NSLU, activity location, intensity, timing, equipment type and quantities that are not known at this time, noise emission attributed to implementation of these off-site improvements could occur within or external to the City's typically allowable 7:00 a.m. to 7:00 p.m. daytime period and thus potentially expose nearby noise-sensitive receptors to sound levels that exceed either the 12-hour City threshold of 75 dBA L_{eq} allowable between 7:00 a.m. and 7:00 p.m. or the appropriate City hourly L_{eq} thresholds during evening and nighttime periods (i.e., 7:00 p.m. to 7:00 a.m.) and thereby result significant and potentially unavoidable impacts even after implementation of practical noise mitigation measures such as those listed in Section 7.

On-Site Construction Noise Impacts

Because the development of the proposed project would be a multiyear endeavor, portions of the development would be completed and occupied during the construction of subsequent portions (phases). Therefore, the occupied proposed project phases have the potential to be impacted by noise from ongoing construction activities. Location-specific phasing schedules for vertical construction beyond the stadium are not available at this time; it is therefore possible that construction of a new phase of the proposed project could take place as near as 50 feet of an occupied phase. In such an instance, short-term construction levels as high as 81 dBA could occur. This impact would be **potentially significant**, with mitigation measures listed in Section 7.

Portable Rock-Crushing/Processing Facility

A portable crushing/processing facility may be used on site during construction activities to crush and re-use existing concrete and asphalt associated with the parking lot and existing SDCCU Stadium. These materials would be recycled on site into future fill material to avoid off-site import of fill material.

Typically, crushing operations would begin with a front-end loader picking up material and dumping the material into a primary crusher. The material would then be crushed, screened, and stacked in product piles. The material would be stockpiled adjacent to the crushing equipment. All material would be used on site. Electric power would most likely be provided by a diesel engine generator. Based on noise measurements that have been conducted for portable crushing operations (Ldn Consulting 2011), the crushing activity would generate a 3-hour average noise level of approximately 80 dBA at a distance of 100 feet from the combination of a jaw crusher and cone crusher.

The closest existing off-site residence property line or NSLU could be located within approximately 175 feet of the project site. At this distance, the noise level associated with the rock crushing activities—were they to be located as close as the project property line—would be approximately 75 dBA L_{eq} (hourly). While this rock crusher noise level does not individually exceed the City's construction noise threshold, it could combine with noise propagation from other on-site construction activities and therefore result in an aggregate construction noise impact that would be **potentially significant prior to mitigation**.

At a distance of 250 feet, the average noise level from this studied rock crushing operation would be reduced to 72 dBA L_{eq} and could, therefore, combine with non-crusher construction noise at the same intensity (72 dBA L_{eq}) but still comply with the City standard due to the principles of logarithmic addition (i.e., the log-sum of 72 dB and

72 dB is 75 dB). Therefore, where possible and practical, rock-crushing equipment should be located further than 250 feet to minimize annoyance to nearby NSLUs. Mitigation measures are discussed in Section 7.

Construction Noise Impacts to Sensitive Wildlife

Noise mitigation may be required for significant noise impacts to certain avian species during their breeding season located in or adjacent to a Multi-Habitat Planning Area south of the project site. Temporary construction noise could reach up to 79 dBA during construction near the southern boundary. Significance of impacts are discussed in the Biological Resources Technical Report.

Stadium Implosion Scenario

While not anticipated at this time, due to the presence of the existing SDCCU Stadium structure and the project construction schedule, implosion of the existing stadium or portions thereof may be determined to be the most efficient and preferred method for demolition to implement the proposed project. At the current stage of the proposed project design, a blasting study has not been completed, and no specific blasting timelines, or blast parameters are available. However, in order to address and evaluate this potential scenario, the following is based on the potential (based upon other implosion events) that one large implosion may occur.

Blasting typically involves drilling a series of boreholes, placing explosives (“charge”) in each hole, then topping the charge with fill material to help confine the blast. These multiple holes are typically arranged so as to yield optimal fracturing of the structure and thus allow gravity to subsequently collapse or “implode” the structure in as safe and controlled manner as possible after detonation. Post-detonation material can then be further broken down to manageable size and hauled away with conventional construction equipment and vehicles. By limiting the amount of charge in each hole, and detonating each charge successively with a time delay, the blasting contractor can limit the total energy released at any single time, which in turn reduces the airborne noise L_{max} and groundborne vibration energy associated with each individual detonated charge.

By way of example, using mathematical expressions provided by the Blasting and Explosives Quick Reference Guide (Dyno Nobel 2010), up to an 8-kilogram (17.6 pounds) charge per detonation would result in 85 dBA L_{max} at a distance of 1,200 feet. Due to the impulsive nature of the blast, the sound lasts no more than a second, which means the hourly L_{eq} for a single detonation would be less than 50 dBA L_{eq} . Hence, many detonations could occur in succession as part of a single “implosion” event per a well-designed blasting plan and still result in potential compliance with the City’s noise standards. Until such blasting details are known, this assessment shall assume that blasting noise is **potentially significant**, therefore mitigation is provided (see Section 7).

Permanent Noise Increase (Operations)

Off-Site Traffic Noise

Operational noise is typically considered permanent, in the sense of duration for operation of the constructed facility. The character of operation noise would include relatively continuous sources such as HVAC systems associated with newly constructed buildings, above which noise due to an in-progress stadium event (of limited duration) would likely dominate the outdoor sound environment. As stated in Section 3, and shown in Table 5, the noise level at exterior usable open space for single- and multifamily residences should not exceed 65 dBA.

A significant permanent increase is defined as a direct project-related permanent ambient increase of 3 dBA or greater, where exterior noise levels would already exceed the City’s significance thresholds (City of San Diego 2011)

(e.g., 65 dBA daytime for single-family residential land uses). An increase of 3 dBA is perceived by the human ear as a barely perceptible increase.

The proposed project would generate a net traffic volume increase as overall daily trips from the project site would increase compared to the existing use. To be conservative, the proposed project traffic volumes without implementation of Transportation Demand Management (TMD) measures were used for noise modeling purposes. The largest anticipated gains in roadway traffic volumes, in terms of percentage growth, would be along Friars Road and Ward Road (Appendix 4.15-1 of the EIR). Using FHWA’s TNM (FHWA 2004), the noise level increase associated with the additional traffic volume was calculated. The results are summarized in Table 8. The TNM input and output data files are provided in Attachment C.

Table 8. Traffic Noise Modeling Results Summary (Typical Day, No Stadium Event)

Site	Existing (CNEL (dBA))	Existing Plus Project (CNEL (dBA))	Increase (dB)	Horizon Year without Project (CNEL (dBA))	Horizon Year Plus Project (CNEL (dBA))	Increase (dB)
ST1	78.1	78.1	0	79	79.1	0.1
ST2	74.8	74.8	0	75.7	75.8	0.1
ST3	62.7	63.9	1.2	63.5	64.5	1
ST4	70.4	70.4	0	71.2	71.4	0.2
ST5	56.2	57	0.8	57	57.7	0.7
ST6	68	68.1	0.1	68.9	68.9	0
ST7	59.4	59.7	0.3	60.2	60.5	0.3
ST8	67.1	68.4	1.3	68	69.1	1.1
ST9	55.5	55.7	0.2	56.4	56.6	0.2
ST10	55.3	55.8	0.5	56.2	56.7	0.5

Notes: CNEL = Community Noise Equivalent Level; dBA = A-weighted decibel; dB = decibel.

As shown in Table 8, the additional traffic associated with the proposed project would increase the noise at receptor locations by 1 dB CNEL or less (rounded to whole numbers). Thus, the additional project-generated traffic volume along the roads would not substantially increase the ambient noise level.

The existing plus project plus stadium event traffic noise would generate a noise level increase of 2 dB CNEL or less (rounded to whole numbers) along the studied roads in the vicinity of the project site. The noise level increases associated with the additional traffic volume associated with a Stadium event in progress are depicted in Table 9.

Table 9. Traffic Noise Modeling Results Summary (Stadium Event Day)

Site	Existing (CNEL (dBA))	Existing Plus Project Plus Event (CNEL (dBA))	Increase (dB)	Horizon Year without Project (CNEL (dBA))	Horizon Year Plus Project Plus Event (CNEL (dBA))	Increase (dB)
ST1	78.1	78.1	0	79	79.1	0.1
ST2	74.8	74.8	0	75.7	75.8	0.1
ST3	62.7	64.4	1.7	63.5	65	1.5
ST4	70.4	70.4	0	71.2	71.4	0.2
ST5	56.2	57.3	1.1	57	58	1

Table 9. Traffic Noise Modeling Results Summary (Stadium Event Day)

Site	Existing (CNEL (dBA))	Existing Plus Project Plus Event (CNEL (dBA))	Increase (dB)	Horizon Year without Project (CNEL (dBA))	Horizon Year Plus Project Plus Event (CNEL (dBA))	Increase (dB)
ST6	68	68	0	68.9	68.9	0
ST7	59.4	59.7	0.3	60.2	60.6	0.4
ST8	67.1	68.5	1.4	68	69.2	1.2
ST9	55.5	55.8	0.3	56.4	56.7	0.3
ST10	55.3	55.9	0.6	56.2	56.7	0.5

Notes: CNEL = Community Noise Equivalent Level; dBA = A-weighted decibel; dB = decibel.

The additional traffic volume along the adjacent roads would not substantially increase the existing noise level in the project vicinity and the traffic noise level increase is considered **less than significant**; no mitigation measures are necessary.

Trolley Noise

The MTS Green Line Trolley bisects the project site. For informational purposes, the following description of potential noise levels from continued operations of the Green Line is reproduced from Appendix J (Noise Analysis) of the Mission Valley Community Plan Update (RECON 2019). Future Green Line Trolley operations are anticipated to continue similar to the existing schedule. The 60, 65, and 70 CNEL contour distances for the Green Line Trolley are summarized in Table 10. As shown, the 60 CNEL contour extends up to approximately 272 feet from the center of the trolley tracks between the Stadium and Fenton Parkway trolley stations, and the 65 CNEL contour extends up to approximately 86 feet from the trolley tracks.

**Table 10
Green Line Trolley Noise Contour Distances**

Stations	Noise Level at 50 feet (CNEL)	Distance to Noise Contour (feet)		
		70 CNEL	65 CNEL	60 CNEL
Mission San Diego to Stadium	58	3	10	32
Stadium to Fenton Parkway	67	27	86	272

Source: RECON 2018. **Note:** CNEL = community noise equivalent level.

The nearest NSLUs would be located on both sides of the trolley alignment, with some uses abutting the right-of-way at distances as close as 25 feet from the centerline. These land uses would potentially experience temporary noise exceedances while the trolley passes by; however, these would be very short in duration. Nevertheless, per California Building Code, design and construction of the exterior shell (including fenestration) for proposed project residential buildings in proximity to the existing trolley route will include adequate sound insulation so that interior sound levels due to exterior-to-interior noise intrusion would not exceed 45 dBA CNEL.

Parks and Open Space Maintenance Activities

For guidance purposes, Section 59.5.0502(g)(4) of the City of San Diego Noise Ordinance restricts noise from the operation of leaf blowers to 65 dB at a distance of 50 feet. Adjusted to this 50-foot distance, a typical riding-style

lawn mower has a comparable noise level (Berger *et al* 2015). When such equipment would operate as part of usual maintenance activities at parks and open spaces that are proximate to the nearest future NLSU resulting from development of the proposed project, outdoor ambient noise levels would temporarily rise. However, assuming such activities involve one mower or blower, limited to no more than an hour per day at a distance no closer than 20 feet to the exterior of an NSLU, the resulting predicted sound level would be 60 dBA CNEL and thus compliant with what the City considers “compatible” with the exterior of an NSLU. On this basis, noise from park and open space maintenance activities would be considered a less than significant environmental impact.

Stationary Noise Sources

As presented in Table 4, the City of San Diego Noise Ordinance limits property line noise levels for various land uses by time of day for noise generated by on-site sources associated with project operation (e.g., for multifamily residential, 55 dBA L_{eq} from 7:00 a.m. to 7:00 p.m., 50 dBA L_{eq} from 7:00 p.m. to 10:00 p.m., and 45 dBA L_{eq} from 10:00 p.m. to 7:00 a.m.). A project that would generate noise levels at the property line that exceed the City’s Noise Ordinance Standards is considered potentially significant (such as potentially a carwash or projects operating generators or noisy equipment). If a nonresidential use, such as a commercial, industrial, or school use, is proposed to abut an existing residential use, the decibel level at the property line should be the arithmetic mean of the decibel levels allowed for each use as set forth in SDMC Section 59.5.0401 (Table 4)..

Emergency Generators

The proposed project may include stand-by generators that would operate during emergencies and provide mission-critical power to on-site medical facilities (e.g., urgent care) and telecommunication infrastructure. While operation of such systems during actual emergencies would normally be exempt from City noise standards, short-duration operation during testing at required intervals (e.g., once per month) may produce localized high levels of noise. Therefore, generators will feature sound-attenuating enclosures and exhaust silencers of sufficient noise-reducing performance or “grade” so as to minimize the noise impact from such testing procedures.

HVAC Systems

Anticipated new on-site stationary operating mechanical equipment that are typical major producers of outdoor noise include rooftop air-handling units that supply air conditioning to the occupied structures, and the potential for below-grade parking garage exhaust fans to supplement natural ventilation techniques. Although final project design details are still under development, the rooftop air-handling units would likely be located on the top of the proposed buildings and surrounded by rooftop parapet walls; thus, it is unlikely that most noise-sensitive receivers in the community would have a direct view of them. Specific details (sizes, manufacturers, and models) of these and other equipment have not been finalized; however, and for purposes of this analysis, Appendix D provides a table that helps show how available information on gross square footage and expected function or usage of the proposed project buildings supported noise emission estimates. Table 11 provides a summary of the anticipated major stationary producers of outdoor noise for each identified operational phase of the proposed project as contemplated by this noise analysis, summarized as follows:

- Stadium (and Park) Built: The new SDSU stadium is completed, but residential, campus, and hotel structures are not constructed yet.
- Residential Buildout: The new SDSU stadium and residential buildings are built and operational, but the campus and hotel structures are not constructed yet. Below-grade parking for the new stadium and residential buildings is built and operating.
- Full Buildout: The new stadium and all buildings (residential, campus, and hotel) are completed and operational.

Stadium

The proposed stadium would host SDSU football games and other events attended by several thousands of visitors with capacity of up to 35,000 attendees. Aside from intermittent sounds due to music or speech reinforcement and public address systems, which can be controlled as part of the stadium design and operations (and as emphasized by mitigation measure MM-NOI-1), this analysis assumes that the combined noise from these crowds of cheering and shouting event spectators would be a significant (and likely dominant) stadium-attributed acoustical contributor to the outdoor sound environment on event days.

Stadium event noise was predicted with CadnaA (version 2018 MR1), a commercially available software program that uses algorithms compatible with International Organization of Standardization 9613 standards for outdoor sound propagation calculation (ISO 1996). The noise prediction model accepts user inputs for sources of sound emission and calculates sound pressure level in a 3D model space by accounting for geometric divergence and other sound attenuation physics including air absorption, ground effects, and linear occlusion due to natural or man-made terrain features.

For this operational noise analysis, the stadium has been modeled as a set of seating areas that reasonably reflect the current design and would contain spectators that, on average, are contributing (via speech, shouts, or cheers) approximately 87 dBA sound power per person at a seating density of one spectator per square meter (about 10 square feet). This individual sound power level is consistent with “very loud speech” per research by Lazarus (Hayne et al. 2006). In total, this analysis conservatively assumes that all 35,000 spectators that may be filling the seats are engaged in loud speech and thus contributing to the aggregate sound emission level from the stadium. These seating areas are bounded by barrier elements that simulate the solid structures of the stadium on which the seating areas rest.

Table 11. Anticipated Major Stationary Operating Sources of Outdoor Noise by Project Phase

Project Feature	Operating during Phase(s)	Description of Sound Source	Estimated Noise Level (dBA L_{eq}) ¹	Height above Grade (feet)
Rooftop Air-Handling Units	Residential Buildout and Full Buildout	Plenum-type centrifugal fan drawing outside air into the building	75 to 95 ²	6 feet above top of roof
Parking Garage Exhaust Fan	Residential Buildout and Full Buildout	Tube-axial fan ventilating below-grade garage	95 to 102 ³	5 feet above grade
New Stadium Seating Areas (when event in progress)	Stadium Built, Residential Buildout, and Full Buildout	Aggregate sound from as many as 35,000 spectators	79 dBA per person ⁴	On average, 49 feet above grade

Notes:

- ¹ Sound pressure level (SPL) distance-adjusted to a reference distance of one meter (approximately 3 feet).
- ² SPL depends on the equipment airflow capacity as suggested by building gross square footage and function or usage.
- ³ SPL depends on the equipment airflow capacity, determined by 0.75 cubic feet per minute (CFM) per parking gross square foot (INTEC 2015).
- ⁴ Based on sound level associated with “very loud speaking” voice effort per Lazarus (Hayne et al. 2006).

Stationary Noise Predictions

Using the aforementioned CadnaA software program, noise levels due to stationary sources shown in Table 11 were predicted at a set of representative noise-sensitive receiver locations presented in Table 12. These receiver

locations also appear in graphical depictions, presented as Figures D-1 through D-5 in Appendix D, of the predicted sound propagation for each of the five studied operation scenarios.

Table 12. Predicted Noise Emission from On-Site Major Stationary Sound Sources

Receiver Identification Tag	Receiver Location Description	Stadium Built, with Event in progress dBA Leq	Residential Buildout, with Stadium Event dBA Leq	Residential Buildout, without Stadium Event dBA Leq	Full Buildout, with Stadium Event dBA Leq	Full Buildout, without Stadium Event dBA Leq
ST3/LT3A	Adjoining Friars Road near northwest corner of project site	64.7	64.7	34.4	64.7	34.2
ST7	South of Mission Valley Public Library (on Fenton Parkway)	61.3	61.3	31.6	56.4	29.9
LT5	Southern fenceline of current Stadium, across from Trolley Station	63.2	62.9	37.5	58.0	35.0
ST6/LT5A	Northern edge of San Diego River Garden	59.5	59.5	31.4	57.7	29.2
ST2A	Southwestern corner of Rancho Mission Villas	54.3	51.3	32.4	51.5	32.4
ST1/LT1	Western edge of Bella Posta Apartments	56.6	48.2	35.3	48.6	35.3
MVAH	Southeastern edge of Monte Vista Apartment Homes (MVAH; on Northside Drive, overlooking project)	66.0	66.0	32.8	66.0	33.1
ST5	2365 Mission City Corporate Center (west of project)	64.1	64.2	37.0	64.2	36.9

Table 12 shows that for each of the three studied proposed project operation phases, aggregate noise emission from the major stationary operating HVAC equipment should be compliant with the City’s nighttime noise thresholds as received by nearby commercial (ST5, ST7) and multifamily residential properties (ST1, ST2A, MVAH). When a well-attended stadium event would occur, however, predicted noise levels would exceed these thresholds at indicated timeframes as follows:

- At ST5 (commercial land use), from 7:00 p.m. to 7:00 a.m.;
- At MVAH (nearest Monte Vista Apartment Homes), all day and night;
- At ST1/LT1 (nearest Bella Posta Apartments), all day and night before the residential buildings are constructed; and
- ST2A (nearest Rancho Mission Villas), from 7:00 p.m. to 7:00 a.m. before the residential buildings are constructed.

Accordingly, impacts at these locations are considered **potentially significant**. For these reasons, final design features, capacity, and function of the new stadium and their effects on noise emission performance are important. By way of example, Figure D-6 in Appendix D depicts an alternative stadium-only scenario, in which there are no large horizontal or vertical gaps in the “bowl” of the stadium structure containing the seating areas. Such a design would help reduce the exceedance at ST5, and help lower noise exposure at the MVAH representative receptor.

Scheduling stadium events to avoid nighttime (between 10:00 p.m. and 7:00 a.m.) operation would reduce the time during which these exceedances would occur.

While predicted stationary operation noise would exceed City standards at representative receptor locations at MVAH, ST1, and ST2A, the existing ambient sound level at these locations—even during nighttime hours—is dominated by roadway traffic and already exceeds the City standards. In fact, and as shown in the plots of long-term baseline data collection in Appendix C, the SPL measured at position ST1/LT1 always exceeded 60 dBA L_{eq} . The ST2A measurement location is similarly proximate to I-15 and would be expected to have comparable sound levels at night. And at LT3A, which was located a comparable distance from Friars Road as is MVAH, the measured nighttime sound level never dipped below 52 dBA L_{eq} , and daytime and evening sound levels range from 58 to 62 dBA L_{eq} . Hence, stationary operation noise impacts from the proposed project’s HVAC sources and new stadium events during daytime and evening hours would be considered less than significant with respect to spectator crowd noise and assumes proper implementation of measures to adequately control amplified speech, music, and public address (PA) messaging. PA messages during emergency situations would be exempt from such acoustical controls.

6.2 Groundborne Vibration

Would the project result in generation of excessive groundborne vibration or groundborne noise level?

Heavier pieces of construction equipment used at the project site could include dozers, graders, cranes, loaded trucks, water trucks, and pavers. But aside from these vehicles, on-site construction activities that would likely cause the most groundborne vibration and noise would be associated with impact-type equipment: pile-driving for building foundations.

During grading, the largest groundborne vibration levels are anticipated to be generated by large bulldozers and loaded trucks used for earthmoving. According to the FTA, vibration levels associated with the use of bulldozers (based on size) range from approximately 0.003 to 0.089 ips PPV and 58 to 87 VdB at 25 feet, as shown in Table 13. Additionally, loaded trucks used for soil hauling during grading could generate vibration levels of approximately 0.076 ips PPV and 86 VdB at 25 feet.

Table 13. Typical Construction Equipment Vibration Levels

Equipment	PPV (inches per second) at 25 feet	L_v (rms vibration velocity dB [VdB]) at 25 feet	PPV (inches per second) at 175 feet
Pile drive (impact) - typical	0.644	104	0.03
Pile drive (sonic) - typical	0.170	93	0.009
Vibratory roller	0.210	94	0.01
Jackhammer	0.035	79	0.002
Large bulldozer	0.089	87	0.005
Loaded trucks	0.076	86	0.004
Small bulldozer	0.003	58	0.0002

Sources: FTA 2018; Caltrans 2013b.

Notes: PPV = peak particle velocity; L_v = vibration level; rms = root mean square; dB = decibel.

Off-Site Groundborne Vibration Impacts

The closest off-site homes would be approximately 175 feet or more from the construction area. As presented in the right-most column of Table 13, at this distance for the listed anticipated construction equipment, the PPV at the receptor would be 0.03 ips for a typical impact-type pile driver and 0.005 ips PPV for a large bulldozer or grader. Therefore, conventional construction activities are not anticipated to result in continuous vibration levels that typically annoy people or risk damage to residential structures; therefore, the vibration impact would be considered **less than significant**, and no off-site mitigation is required.

On-Site Groundborne Vibration Impacts

Because the development of the proposed project would be a multiyear endeavor, portions of the development would be completed and occupied during the construction of subsequent portions (phases). Therefore, the occupied proposed project phases have the potential to be impacted by vibration from ongoing construction activities. Location-specific phasing schedules are not available at this time; it is therefore possible that construction of a new phase of the proposed project could take place as near as 50 feet of an occupied phase. In such an instance, short-term vibration levels as high as 0.03 ips PPV could result from nearby heavy front-end loaders or bulldozers. If pile-driving were to occur at this distance, the reference level of 0.644 ips PPV would translate to 0.23 ips PPV at the receptor and thus be considered an impactful level. Therefore, vibration levels could be **potentially significant** depending on the on-site activities and equipment or processes involved. Mitigation measures are discussed in Section 7.

Trolley

Based on vibration level screening distances predicted in Appendix J (Noise Analysis) of the Mission Valley Community Plan Update (RECON 2019) and reproduced in Table 14, potential ground-borne vibration exposures at sufficiently proximate occupied project buildings could result from existing railway operations. FTA guidance describes three categories of VdB thresholds for acceptable levels of vibration velocity (FTA 2018) that include as follows:

- Category 1 – up to 65 VdB or less at buildings where vibration would interfere with interior operations;
- Category 2 – 72 VdB or less at residential uses and places where people normally sleep; and,
- Category 3 – 75 VdB or less at institutional uses with primarily daytime use.

Because the majority of the Green Line Trolley tracks within the project site are on elevated structures, the resulting vibration transmission path from the source (moving trolley) to a nearby occupied receiving structure is not straightforward energy propagation through adjoining soils and thus would not be expected to cause significant vibration impacts to adjacent project-attributed development. Further, areas where noise- and vibration-sensitive uses are located the closest to the tracks (as close as 25 feet) are at the existing trolley stations. Since trolleys decelerate and stop at each station upon approach, or accelerate from a stationary position up to track design speeds during station departure, they require considerable lengths rail near the station to accomplish these velocity changes safely and comfortably for trolley riders. Consequently, the average trolley speeds in the vicinity of these trolley stations would be low and would therefore not cause significant vibration over existing levels or exceed the applicable Category-specific FTA guidance-based threshold for potential impact.

Table 14. Trolley Vibration Screening Distances

Trolley Speed (mph)	Predicted Vibration Velocity Level at 25 Feet (rms VdB)	Distance between Vibration Source and Indicated Threshold (feet)		
		75 VdB (Category 3)	72 VdB (Category 2)	65 VdB (Category 1)
15	67	1	9	33
20	70	6	14	48
25	72	11	21	63
30	73	16	28	77
35	74	21	35	90
40	76	26	42	102
45	77	31	49	114
50	78	36	55	125
55	78	41	62	136
60	79	45	68	147

Source: RECON 2019.

The only portion of the project site where the trolley line is at-grade and therefore would generate the maximum vibration level is in the southwest corner. The trolley route begins to rise in elevation approximately 400 feet east of Fenton Parkway/Street I. At this location, the nearest on-site building would be approximately 800 feet from the trolley line, well in excess of the distances presented in Table 14. The existing trolley line would be as close as 25 feet to future occupied campus buildings west of the current Stadium Station, but is elevated by supporting structures. Similarly, Figure 4 suggests that the southern-most newly-built residential buildings associated with the proposed project might be as close as 150 feet to the trolley line, but here too the route is elevated and (in combination with the horizontal distance) would not be expected to result in vibration velocity levels that exceed the 72 VdB threshold for occupied residences.

Stadium Implosion Scenario

While not anticipated at this time, due to the presence of the existing SDCCU Stadium structure and the project construction schedule, implosion of the existing stadium or portions thereof may be determined to be the most efficient and preferred method for demolition to implement the proposed project. Thus, construction activities may result in significant ground-borne vibration impacts. At the current stage of the proposed project design, a blasting study has not been completed, and no specific blasting timelines, or blast parameters are available. However, it is anticipated (based upon other implosion events) that one large implosion may occur.

When explosive charges detonate, almost all of the available energy from the explosion is used in breaking and displacing the mass. However, a small portion of the energy is released in the form of vibration waves that radiate away from the charge location. The strength, or amplitude, of the waves reduces as the distance from the charge increases. The rate of amplitude decay can be estimated with a reasonable degree of consistency, which allows regulatory agencies to control blasting operations by means of relationships between distance and explosive quantity.

Using the previous example of an 8-kilogram charge weight studied for potential noise emission, mathematical expressions (Dyno Nobel 2010) suggest that for a “heavily confined” charge, the PPV from its detonation would be 0.082 ips at a distance of 1,200 feet—the apparent closest distance to a residential receptor. While the predicted vibration level for this hypothetical per-charge scenario is below a threshold of 0.5 ips PPV for a single-event source (as opposed to the aforementioned 0.2 ips PPV guidance limit for continuous vibration sources received by the same residential-type structure), the detailed parameters for the SDCCU Stadium demolition plan are not known at

this time; therefore, it is not possible to conduct a meaningful vibration analysis of proposed blasting events. Until such information is available, and for purposes of this analysis, vibration impacts from such a structure implosion are considered **potentially significant**.

6.3 Airport Noise

For a project located within the vicinity of a private airstrip or 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, would the project expose people residing or working in the project area to excessive noise levels?

The proposed project is located approximately 1.8 miles south-southeast of Montgomery Field, and approximately 5 miles northeast of San Diego International Airport (ALUC 2010). Based upon the noise contours contained in the airports' land use compatibility plans, the project site is located outside the 60 dB CNEL noise contours for both Montgomery Field and San Diego International Airport. Thus, the proposed project would not expose people to excessive noise levels from aircraft. Noise impacts would be **less than significant**.

7 Mitigation Measures

The following mitigation measures are proposed to help reduce construction- and operation-related noise and vibration levels created by the proposed project.

Operation:

MM-NOI-1 **Implement Sound Amplification Controls.** Incorporate electronic controls or limits into the final design of the new stadium's audio/visual sound system, as well as tie-ins from hosted performers to control amplified speech and music noise at the source, and thus offer some degree of expected sound-level reduction at the potentially affected noise-sensitive receiver positions.

Potential Implosion Impact:

To help mitigate this potentially significant impact due to demolition activities involving blasting events, **MM-NOI-2** would require preparation of a blasting plan requiring compliance with applicable standards.

MM-NOI-2 Prior to breaking ground on any portion of the proposed project, California State University/San Diego State University or its designee shall prepare, or cause to be prepared, a blasting/drilling monitoring plan. The plan shall include estimates of the drill noise levels, maximum noise levels (L_{max}), air-blast overpressure levels, and groundborne vibration levels at each residence within 1,000 feet of the blasting location. Where potential exceedances of the City of San Diego's Noise Ordinance are identified, the blasting/drilling monitoring plan shall identify mitigation measures shown to effectively reduce noise and vibration levels (e.g., altering orientation of blast progression, increased delay between charge detonations, pre-splitting) to be implemented in order to comply with the noise level limits of the City's Noise Ordinance, and a vibration-velocity limit of 0.5 inches per second (ips) peak particle velocity (PPV). The identified mitigation measures shall be implemented by SDSU, or its designee, prior to breaking ground. Additionally, all project phases involving blasting shall conform to the following requirements:

- All blasting shall be performed by a blast contractor and blasting personnel licensed to operate per appropriate regulatory agencies.
- Each blast shall be monitored and recorded with an air-blast overpressure monitor and groundborne vibration accelerometer that is located outside the closest residence to the blast. This data shall be recorded, and a post-blast summary report shall be prepared and be available for public review or distribution as necessary.
- Blasting shall not exceed 0.5 ips PPV at the nearest occupied residence, in accordance with California Department of Transportation guidance (Caltrans 2013b).

Potential Vibration Impacts:

Additionally, **MM-NOI-3** is proposed, which would require a vibration monitoring plan and require data be sent to CSU/SDSU noise control officer who will take the steps necessary to ensure that future vibration levels do not exceed applicable limits, including suspending those further construction activities that would result in excessive vibration levels until either alternative equipment or alternative construction procedures have been identified to reduce vibration levels below applicable standards.

MM-NOI-3

Prior to beginning construction of any project component within 200 feet of an existing or future occupied residence, California State University/San Diego State University, or its designee, shall require preparation of a vibration monitoring plan. At a minimum, the vibration monitoring plan shall require data be sent to the University noise control officer or designee on a weekly basis or more frequently as determined by the noise control officer. The data shall include vibration level measurements taken during the previous work period. In the event that there is reasonable probability that future measured vibration levels would exceed allowable limits, the University shall take the steps necessary to ensure that future vibration levels do not exceed such limits, including suspending further construction activities that would result in excessive vibration levels until either alternative equipment or alternative construction procedures can be used that generate vibration levels that do not exceed 0.2 inches per second (ips) peak particle velocity (PPV) at the nearest residential structure. Construction activities not associated with vibration generation could continue.

The vibration monitoring plan shall be prepared and administered by a state-approved (or approval delegated to appropriate county or municipal jurisdiction or agency) noise/vibration consultant. In addition to the data described previously, the vibration monitoring plan shall also include the location of vibration monitors, the vibration instrumentation used, a data acquisition and retention plan, and exceedance notification and reporting procedures. A description of these plan components is provided in the following text.

Location of Vibration Monitors: The vibration monitoring plan shall include a scaled plan indicating monitoring locations, including the location of measurements to be taken at construction site boundaries and at nearby residential properties.

Vibration Instrumentation: Vibration monitors shall be capable of measuring maximum unweighted root-mean square and PPV levels triaxially (in three directions) over a frequency range of 1 to 100 Hertz. The vibration monitor shall be set to automatically record daily events during working hours and to record peak triaxial PPV values in 5-minute interval histogram plots. The method of coupling the geophones to the ground shall be described and included in the report. The vibration monitors shall be calibrated within 1 year of the measurement, and a certified laboratory conformance report shall be included in the report.

Data Acquisition: The information to be provided in the data reports shall include, at a minimum, daily histogram plots of PPV versus time of day for three triaxial directions, and maximum peak vector sum PPV and maximum frequency for each direction. The reports shall also identify the construction equipment operation during the monitoring period and their locations and distances to all vibration measurement locations.

Exceedance Notification and Reporting Procedures: A description of the notification of exceedance and reporting procedures shall be included, and the follow-up procedures taken to reduce vibration levels to below the allowable limits.

Nighttime or other Construction Noise:

MM-NOI-4

The project (via construction contractor) would establish a telephone hot-line for use by the public to report any significant adverse noise conditions associated with the construction and operation of the project. If the telephone is not staffed 24 hours per day, the contractor shall be required to include an automatic answering feature, with date and time stamp recording, to answer calls when

the phone is unattended. This hot-line telephone number shall be posted at the project site during construction in a manner visible to passersby and on the project website sdsu.edu/missionvalley. This telephone number shall be maintained until the project has been considered commissioned and ready for operation.

Throughout the construction of the project, the contractor shall be required to document, investigate, evaluate, and attempt to resolve all project-related noise complaints. The contractor or its authorized agent shall be required to:

- Use a Noise Complaint Resolution Form to document and respond to each noise complaint.
- Contact the person(s) making the noise complaint within 24 hours.
- Conduct an investigation to attempt to determine the source of noise related to the complaint.
- Take all reasonable measures to reduce the noise at its source.

MM-NOI-5 Implement Project Design Features **PDF-N-1** through **PDF-N-9**.

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8 Level of Significance After Mitigation

Proper implementation of **MM-NOI-1** during daytime and evening stadium events would help result in a reduction of noise emission to levels considered less than significant. No further mitigation is required with respect to attended stadium events during these time periods. However, at night (i.e., past 10:00 p.m.), potential noise impacts would be considered potentially significant even after implementation of mitigation measure **MM-NOI-1**, as detailed in Section 7, due to the possibility of aggregate spectator speech noise as modeled in this analysis. The proposed audio controls on hosted stadium events are independent of aggregate noise level from an excited and loud crowd of cheering spectators. Therefore, under such specific circumstances, operation-related noise impacts would be potentially significant and unavoidable at the nearest NSLU to the northwest of the stadium site.

With implementation of **MM-NOI-2 through MM-NOI-5**, noise impacts from project-related construction would be less than significant during expected on-site daytime-only construction activities. During nighttime construction activities, even with proper implementation of MM-NOI-2 through MM-NOI-5, predicted noise impacts may be potentially significant and unavoidable depending on the on-site location, intensity, and timing. Noise impacts resulting from off-site roadway and utility improvements may also be potentially significant and unavoidable, depending on receptor-to-activity distances, activity intensity, and timing.

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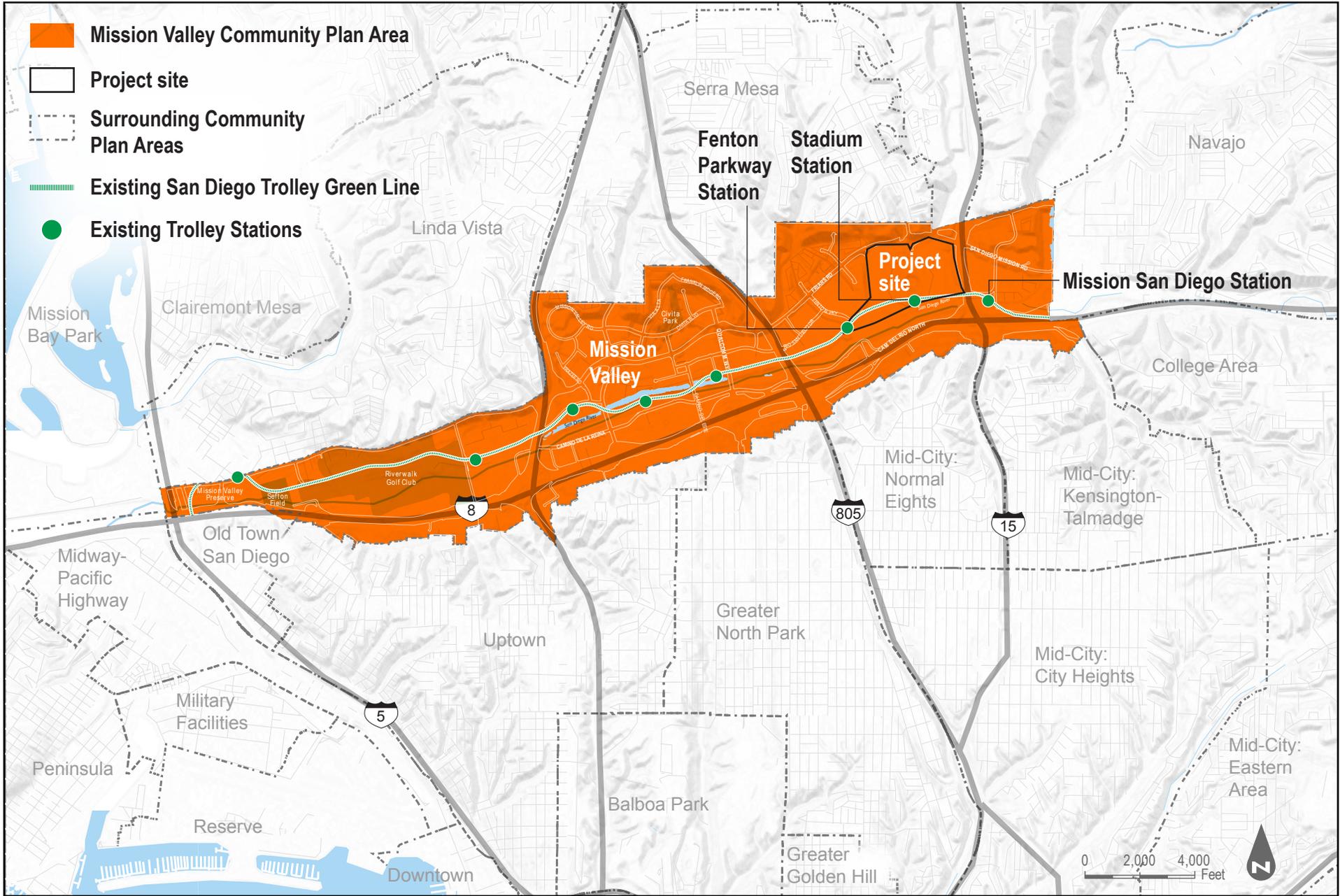
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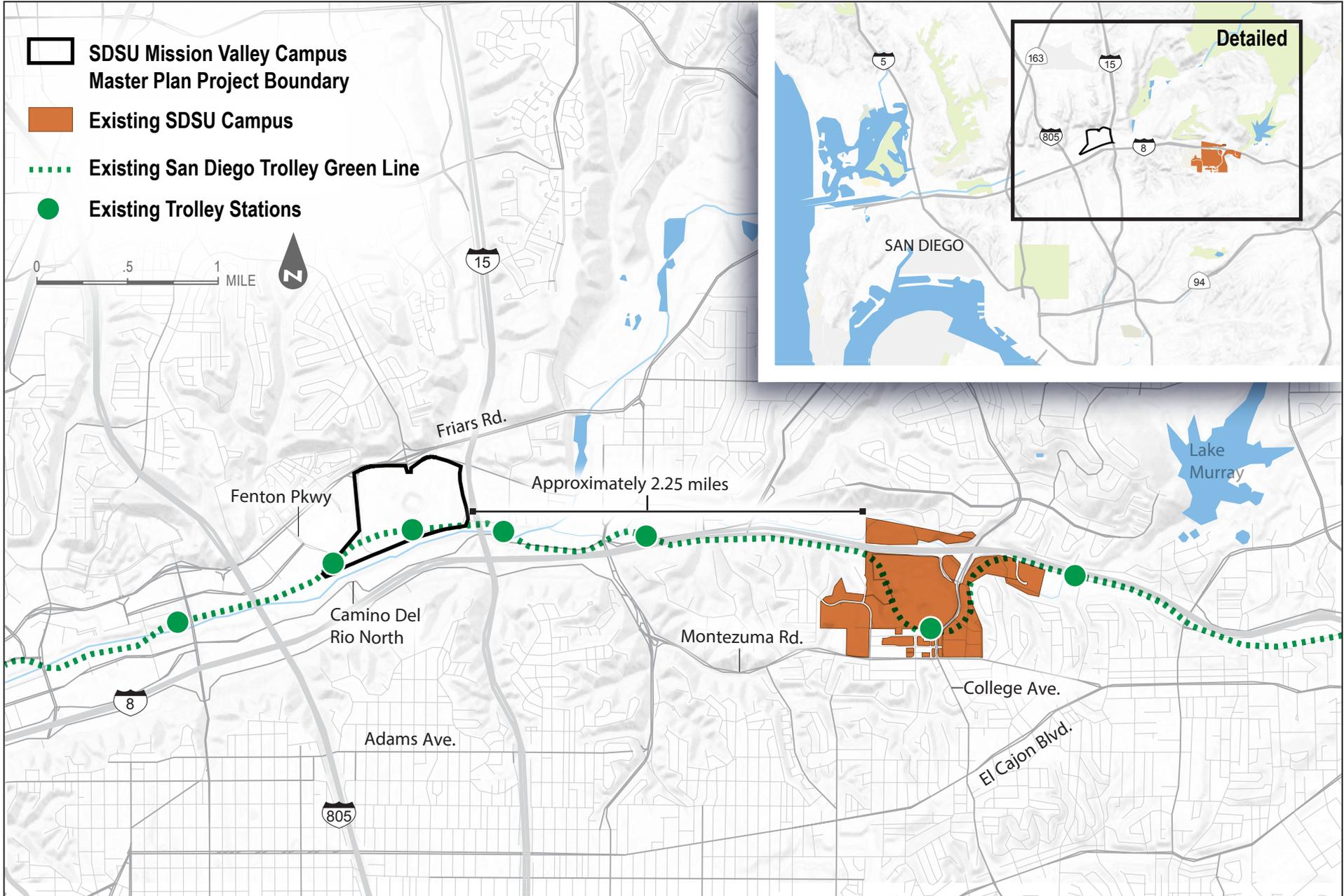
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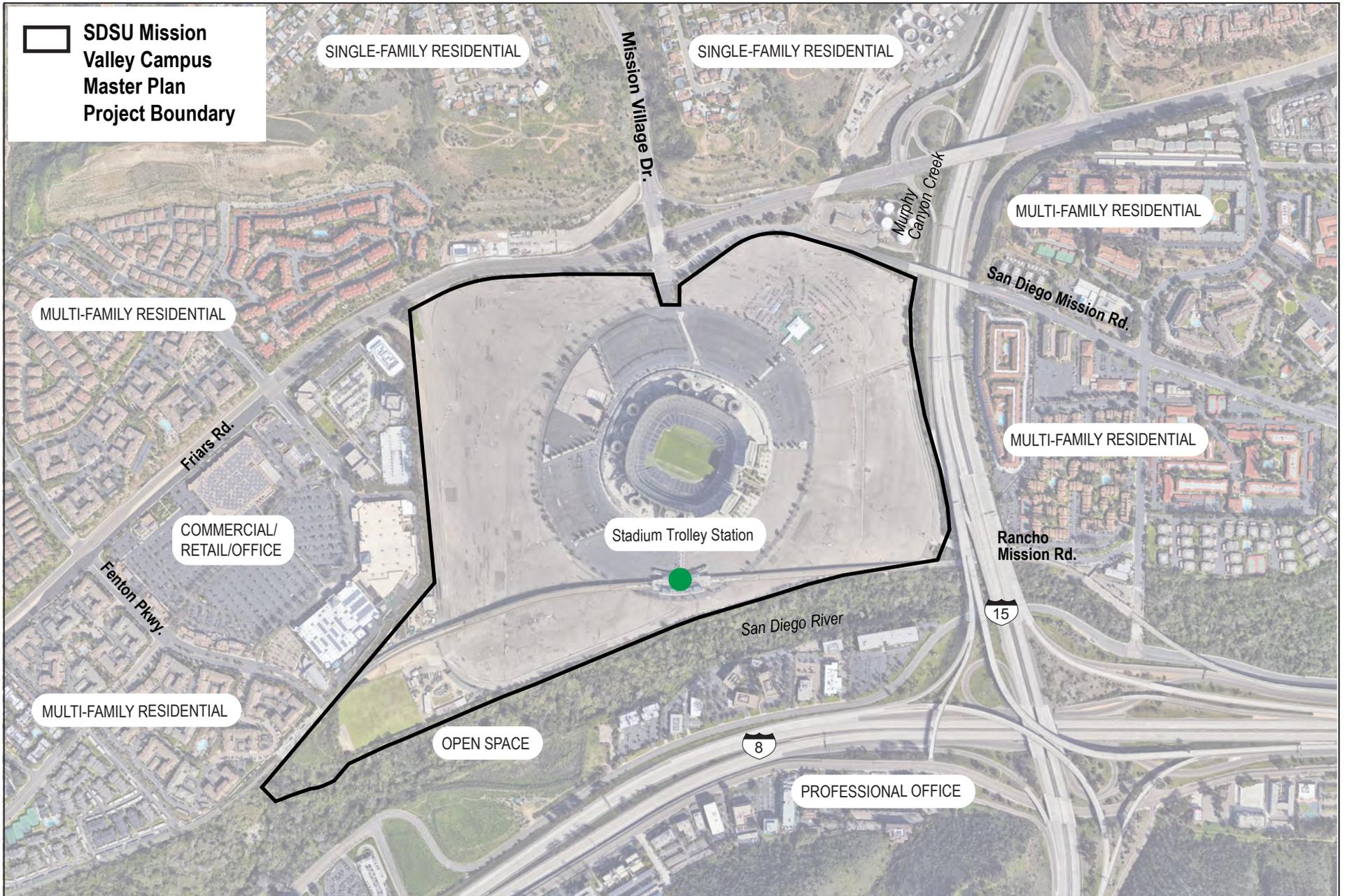
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APPENDIX A

Glossary of Acoustical Terms and Descriptors

ATTACHMENT A Definitions

Term	Definition
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
A-Weighted Sound Level (dBA)	The sound pressure level in decibels as measured on a sound level meter using the A-weighted 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 frequency response of the human ear.
Community Equivalent Sound Level (CNEL)	CNEL is the A-weighted equivalent continuous sound pressure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during the nighttime hours (10 p.m. to 7 a.m.) and 5 dB added to the sound during the evening hours (7 p.m. to 10 p.m.).
Day Night Level (DNL)	Similar to the CNEL, the DNL is the A-weighted equivalent continuous sound pressure level averaged over a 24-hour period. The only difference between the DNL and the CNEL is that the evening penalty of 5 dB (between 7 p.m. and 10 p.m.) is not included in this level.
Decibel (dB)	A unit for measuring sound pressure level, equal to 10 times the logarithm to the base 10 of the ratio of the measured sound pressure squared to a reference pressure, which is 20 micropascals.
Sound Transmission Class (STC)	A single number metric for the amount of sound isolation provided by a partition. HUD uses the STC to calculate interior sound levels based on exterior DNL.

Appendix B

FHWA Traffic Noise Model Input Parameters

RESULTS: SOUND LEVELS

SDSU West Campus

Dudek													22 February 2019	
CB													TNM 2.5	
													Calculated with TNM 2.5	
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:			SDSU West Campus											
RUN:			Existing											
BARRIER DESIGN:			INPUT HEIGHTS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.	
ATMOSPHERICS:			68 deg F, 50% RH											
Receiver														
Name		No.	#DUs	Existing	No Barrier			With Barrier						
				LAeq1h	LAeq1h		Increase over existing		Type	Calculated	Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated	
								Sub'l Inc					minus	
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	Goal	
ST9		1	1	52.5	55.5	66	3.0	10	----	55.5	0.0	8	-8.0	
ST10		2	1	52.8	55.3	66	2.5	10	----	55.3	0.0	8	-8.0	
ST1		3	1	77.4	78.1	66	0.7	10	Snd Lvl	78.1	0.0	8	-8.0	
ST2a		4	1	72.2	74.8	66	2.6	10	Snd Lvl	74.8	0.0	8	-8.0	
ST8		5	1	67.0	67.1	66	0.1	10	Snd Lvl	67.1	0.0	8	-8.0	
ST3		6	1	64.9	62.7	66	-2.2	10	----	62.7	0.0	8	-8.0	
ST5		8	1	53.7	56.2	66	2.5	10	----	56.2	0.0	8	-8.0	
ST4		9	1	69.1	70.4	66	1.3	10	Snd Lvl	70.4	0.0	8	-8.0	
ST7		10	1	59.0	59.4	66	0.4	10	----	59.4	0.0	8	-8.0	
ST6		11	1	65.1	68.0	66	2.9	10	Snd Lvl	68.0	0.0	8	-8.0	
Dwelling Units			# DUs	Noise Reduction										
				Min	Avg	Max								
				dB	dB	dB								
All Selected			10	0.0	0.0	0.0								
All Impacted			5	0.0	0.0	0.0								
All that meet NR Goal			0	0.0	0.0	0.0								

INPUT: ROADWAYS

SDSU West Campus

Dudek CB				22 February 2019 TNM 2.5							
INPUT: ROADWAYS				SDSU West Campus			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Existing							
RUN:											
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	On Struct?
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	
	ft			ft	ft	ft		mph	%		
South Mission Village Dr 26	30.0	point9	9	6,292.3	4,593.3	0.00				Average	
		point8	8	6,222.5	5,085.5	50.00				Average	
		point7	7	6,196.8	5,331.5	60.00				Average	
		point6	6	6,141.7	5,651.1	70.00				Average	
		point5	5	6,024.1	5,904.5	120.00				Average	
		point4	4	5,840.5	6,253.3	150.00				Average	
		point3	3	5,642.2	6,613.3	200.00				Average	
		point2	2	5,451.2	6,929.1	240.00				Average	
		point1	1	5,234.5	7,325.7	240.00					
North Mission Village Dr	30.0	point15	15	6,329.0	4,615.4	0.00				Average	
		point16	16	6,284.9	4,909.2	0.00				Average	
		point17	17	6,248.2	5,265.4	50.00				Average	
		point18	18	6,207.8	5,478.4	60.00				Average	
		point19	19	6,174.7	5,636.4	63.00				Average	
		point535	535	6,049.9	5,937.5	120.00				Average	
		point20	20	5,866.2	6,257.0	200.00				Average	
		point21	21	5,701.0	6,561.8	200.00				Average	
		point22	22	5,506.3	6,899.7	240.00				Average	
		point23	23	5,289.7	7,296.3	240.00				Average	
		point537	537	5,263.9	7,333.1	240.00					
westFriars (W of Int 9)	40.0	point58	58	6,262.9	4,596.3	20.00				Average	
		point59	59	6,116.0	4,533.9	20.00				Average	
		point60	60	5,965.4	4,482.4	20.00				Average	
		point61	61	5,840.5	4,467.7	20.00				Average	
		point62	62	5,495.3	4,427.4	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point555	555	5,263.9	4,412.7	20.00				Average	
		point556	556	5,047.3	4,353.9	20.00				Average	
		point557	557	4,874.6	4,287.8	20.00				Average	
		point558	558	4,628.6	4,129.9	20.00				Average	
		point559	559	4,426.6	4,030.7	20.00				Average	
		point560	560	4,261.4	3,924.2	20.00				Average	
		point561	561	4,055.7	3,744.3	20.00				Average	
		point562	562	3,945.5	3,641.4	20.00					
17 West San Diego Mission Rd	20.0	point77	77	6,442.0	4,400.7	0.00				Average	
		point78	78	6,666.0	4,540.3	0.00				Average	
		point79	79	6,816.6	4,606.3	0.00				Average	
		point80	80	6,970.9	4,676.1	5.00				Average	
		point81	81	7,121.5	4,672.4	10.00				Average	
		point82	82	7,437.3	4,599.0	15.00				Average	
		point83	83	7,955.1	4,444.8	20.00				Average	Y
		point84	84	8,370.1	4,319.9	15.00				Average	
		point85	85	8,730.0	4,213.4	10.00				Average	
		point86	86	9,078.9	4,059.2	5.00				Average	
		point87	87	9,372.7	3,941.6	0.00					
17 East San Diego Mission Rd	20.0	point88	88	6,456.7	4,386.0	0.00				Average	
		point89	89	6,735.8	4,536.6	0.00				Average	
		point90	90	6,952.5	4,632.1	5.00				Average	
		point91	91	7,077.4	4,650.4	10.00				Average	
		point92	92	7,235.3	4,628.4	20.00				Average	Y
		point93	93	7,991.8	4,408.0	20.00				Average	Y
		point94	94	8,557.4	4,239.1	10.00				Average	
		point95	95	9,005.5	4,066.5	5.00				Average	
		point96	96	9,339.7	3,923.3	0.00					
22 North Ward Rd	30.0	point97	97	9,400.6	3,882.1	0.00				Average	
		point98	98	9,386.0	2,130.3	0.00					
South Ward Row	30.0	point102	102	9,367.6	3,893.1	0.00				Average	
		point103	103	9,363.9	2,119.3	0.00					
South Fenton Pkwy (S of Int 9)	30.0	point242	242	4,260.1	1,609.0	0.00				Average	
		point243	243	4,157.3	1,686.2	0.00				Average	
		point244	244	4,076.5	1,733.9	0.00				Average	
		point245	245	3,999.4	1,752.3	0.00				Average	
		point246	246	3,900.2	1,774.3	0.00				Average	
		point247	247	3,782.7	1,800.0	0.00				Average	
		point248	248	3,551.3	1,866.1	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point249	249	3,426.5	1,895.5	0.00				Average
		point250	250	3,294.3	1,980.0	0.00				Average
		point251	251	3,202.5	2,057.1	0.00				Average
		point252	252	3,081.3	2,182.0	0.00				Average
		point253	253	2,805.8	2,472.1	0.00				
16 North Fenton Pkwy (S of Int 9)	30.0	point255	255	2,842.6	2,501.5	0.00				Average
		point256	256	3,283.3	2,024.0	0.00				Average
		point257	257	3,393.4	1,969.0	0.00				Average
		point258	258	3,624.8	1,888.2	0.00				Average
		point259	259	3,859.8	1,840.4	0.00				Average
		point260	260	4,032.4	1,800.0	0.00				Average
		point261	261	4,252.8	1,645.8	0.00				
South Fenton Pkwy (N of Int 9)	30.0	point268	268	2,721.4	2,549.2	0.00				Average
		point269	269	2,523.0	2,776.9	0.00				Average
		point270	270	2,431.2	2,912.8	0.00				Average
		point271	271	2,310.0	3,089.1	0.00				Average
		point272	272	2,240.3	3,228.6	0.00				Average
		point273	273	2,196.2	3,404.9	0.00				Average
		point274	274	2,188.8	3,794.2	0.00				
North Fenton Pkwy (N of Int 9)	30.0	point275	275	2,758.1	2,578.6	0.00				Average
		point276	276	2,548.8	2,846.7	0.00				Average
		point277	277	2,427.6	3,000.9	0.00				Average
		point278	278	2,343.1	3,144.2	0.00				Average
		point279	279	2,295.3	3,232.3	0.00				Average
		point280	280	2,251.3	3,342.5	0.00				Average
		point281	281	2,229.2	3,511.4	0.00				Average
		point282	282	2,225.6	3,753.8	0.00				Average
		point571	571	2,229.2	3,801.5	0.00				
North Northside Dr	12.0	point283	283	3,900.2	3,642.2	0.00				Average
		point284	284	3,735.0	3,818.4	0.00				Average
		point285	285	3,632.2	3,943.3	0.00				Average
		point286	286	3,547.7	3,987.4	0.00				Average
		point287	287	3,444.8	4,075.5	0.00				Average
		point288	288	3,286.9	4,138.0	0.00				Average
		point289	289	3,015.2	4,251.8	0.00				
South Northside Dr	12.0	point291	291	3,870.9	3,606.9	0.00				Average
		point292	292	3,628.5	3,904.4	0.00				Average
		point293	293	3,529.3	3,981.5	0.00				Average
		point294	294	3,437.5	4,040.3	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point295	295	3,305.3	4,099.0	0.00				Average	
		point296	296	3,103.3	4,190.8	0.00				Average	
		point297	297	2,996.8	4,238.6	0.00					
15 West Rio San Diego Dr	30.0	point299	299	1,806.9	609.4	0.00				Average	
		point300	300	2,005.2	675.5	0.00				Average	
		point301	301	2,141.1	741.6	0.00				Average	
		point302	302	2,313.7	888.5	0.00				Average	
		point303	303	2,493.7	1,094.2	0.00				Average	
		point304	304	2,647.9	1,263.1	0.00				Average	
		point305	305	2,835.2	1,509.2	0.00				Average	
		point306	306	2,941.7	1,608.3	0.00				Average	
		point307	307	3,083.5	1,746.2	0.00				Average	
		point577	577	3,261.1	1,998.8	0.00					
15 East Rio San Diego Dr	30.0	point308	308	1,854.6	572.6	0.00				Average	
		point309	309	2,097.0	675.5	0.00				Average	
		point310	310	2,295.3	829.7	0.00				Average	
		point311	311	2,490.0	1,024.4	0.00				Average	
		point312	312	2,692.0	1,263.1	0.00				Average	
		point313	313	2,853.6	1,479.8	0.00				Average	
		point314	314	2,952.7	1,597.3	0.00				Average	
		point315	315	3,084.9	1,711.1	0.00				Average	
		point578	578	3,279.6	1,957.2	0.00					
I15 South	90.0	point316	316	8,797.6	-298.7	75.00				Average	
		point318	318	8,904.1	142.0	60.00				Average	
		point319	319	8,944.5	443.1	40.00				Average	
		point320	320	8,933.5	825.1	20.00				Average	
		point321	321	8,834.3	1,163.0	20.00				Average	Y
		point 322	322	8,562.5	2,121.5	20.00				Average	Y
		point323	323	8,367.9	2,841.3	0.00				Average	
		point324	324	8,118.2	3,763.1	0.00				Average	
		point325	325	8,092.5	4,325.0	0.00				Average	
		point326	326	8,184.3	4,964.0	0.00				Average	
		point327	327	8,290.8	5,313.0	0.00				Average	
		point328	328	8,698.4	6,613.0	0.00				Average	
		point329	329	8,812.3	7,064.8	15.00				Average	
		point330	330	8,834.3	7,472.4	30.00					
I8 West	90.0	point354	354	12,786.7	1,868.8	20.00				Average	
		point355	355	12,470.9	1,791.7	20.00				Average	
		point356	356	12,235.8	1,758.7	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point357	357	11,839.2	1,685.2	20.00				Average
		point358	358	11,350.8	1,641.1	20.00				Average
		point359	359	10,715.4	1,589.7	20.00				Average
		point360	360	9,870.7	1,600.7	20.00				Average
		point361	361	9,055.4	1,571.4	20.00				Average
		point362	362	8,122.6	1,560.3	15.00				Average
		point363	363	7,582.7	1,534.6	10.00				Average
		point364	364	7,318.3	1,505.2	10.00				Average
		point365	365	6,793.1	1,373.0	10.00				Average
		point548	548	6,389.1	1,193.1	10.00				Average
		point549	549	5,930.1	906.6	10.00				Average
		point550	550	5,397.6	521.0	10.00				Average
		point551	551	4,552.9	-44.6	10.00				Average
		point552	552	4,071.8	-312.7	10.00				
18 East	90.0	point366	366	12,786.7	1,772.6	20.00				Average
		point367	367	11,949.4	1,629.4	20.00				Average
		point368	368	11,163.5	1,567.0	20.00				Average
		point369	369	9,481.4	1,522.9	20.00				Average
		point370	370	8,691.8	1,497.2	20.00				Average
		point371	371	7,905.9	1,486.2	20.00				Average
		point 372	372	7,700.2	1,486.2	25.00				Average
		point373	373	7,593.7	1,467.8	25.00				Average
		point374	374	7,193.4	1,372.3	25.00				Average
		point375	375	6,730.7	1,203.4	25.00				Average
		point376	376	6,264.3	950.0	25.00				Average
		point377	377	5,287.4	303.6	25.00				Average
		point378	378	4,472.1	-203.2	25.00				Average
		point547	547	4,244.4	-324.4	25.00				
19 South Rancho Mission Rd (S friars)	30.0	point379	379	9,376.4	3,982.0	0.00				Average
		point380	380	9,387.4	4,239.1	0.00				Average
		point381	381	9,468.2	4,345.6	0.00				Average
		point382	382	9,541.7	4,419.1	0.00				Average
		point383	383	9,684.9	4,448.4	0.00				Average
		point384	384	9,897.9	4,496.2	0.00				Average
		point385	385	10,015.4	4,558.6	0.00				Average
		point386	386	10,085.2	4,698.2	0.00				Average
		point387	387	10,096.2	4,815.7	0.00				Average
		point388	388	10,081.5	4,889.1	0.00				Average
		point572	572	9,919.9	5,531.8	0.00				

INPUT: ROADWAYS

SDSU West Campus

North Mission Road (S of Friars)	30.0	point389	389	9,398.4	3,974.7	0.00				Average
		point390	390	9,416.8	4,231.8	0.00				Average
		point391	391	9,493.9	4,349.3	0.00				Average
		point392	392	9,574.7	4,393.3	0.00				Average
		point393	393	9,780.4	4,433.7	0.00				Average
		point394	394	9,978.7	4,499.8	0.00				Average
		point395	395	10,044.8	4,547.6	0.00				Average
		point396	396	10,107.2	4,694.5	0.00				Average
		point397	397	10,114.6	4,808.3	0.00				Average
		point398	398	10,088.9	4,922.2	0.00				Average
		point399	399	9,956.7	5,546.5	0.00				
West San Diego Mission Rd (E of Int 24)	20.0	point401	401	9,424.1	3,919.6	0.00				Average
		point402	402	10,026.4	3,710.2	0.00				Average
		point403	403	10,360.6	3,603.7	0.00				Average
		point404	404	10,665.5	3,522.9	0.00				Average
		point405	405	10,771.9	3,500.9	0.00				Average
		point406	406	11,209.0	3,453.2	0.00				Average
		point407	407	11,359.6	3,475.2	0.00				Average
		point408	408	11,473.4	3,563.4	0.00				Average
		point409	409	11,627.7	3,721.3	0.00				Average
		point410	410	11,759.9	3,860.8	0.00				Average
		point575	575	11,848.0	3,926.9	0.00				Average
		point576	576	12,127.1	3,971.0	0.00				
East San Diego Mission Rd (E of Int 24)	20.0	point424	424	9,424.1	3,886.5	0.00				Average
		point425	425	10,573.7	3,508.3	0.00				Average
		point426	426	10,889.5	3,449.5	0.00				Average
		point427	427	11,128.2	3,431.1	0.00				Average
		point428	428	11,304.5	3,420.1	0.00				Average
		point429	429	11,407.3	3,464.2	0.00				Average
		point430	430	11,550.5	3,574.4	0.00				Average
		point431	431	11,675.4	3,728.6	0.00				Average
		point432	432	11,800.3	3,849.8	0.00				Average
		point433	433	11,881.1	3,915.9	0.00				Average
		point434	434	12,116.1	3,934.3	0.00				
South Fairmount Ave (N of Int 25)	25.0	point436	436	12,145.5	3,989.4	0.00				Average
		point437	437	12,156.5	5,160.9	0.00				
North Fairmount Ave (N of Int 25)	25.0	point438	438	12,163.8	4,015.1	0.00				Average
		point439	439	12,178.5	5,182.9	0.00				
23 South Fairmont Ave (S of Int 25)	25.0	point440	440	12,147.7	3,926.2	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point441	441	12,144.0	2,644.5	0.00				Average
		point442	442	12,151.4	2,596.7	0.00				Average
		point443	443	12,202.8	2,519.6	0.00				
North Fairmount Ave (S of Int 25)	25.0	point444	444	12,169.7	3,915.2	0.00				Average
		point445	445	12,169.7	2,732.6	0.00				Average
		point446	446	12,177.1	2,644.5	0.00				Average
		point574	574	12,191.8	2,574.7	0.00				
South Mission Gorge Rd	30.0	point462	462	12,136.7	2,064.2	0.00				Average
		point463	463	12,133.0	2,313.9	0.00				Average
		point464	464	12,210.1	2,527.0	0.00				Average
		point465	465	12,353.3	2,710.6	0.00				Average
		point466	466	12,500.3	2,824.4	0.00				Average
		point467	467	12,794.1	2,997.0	0.00				
North Mission Gorge Rd	30.0	point469	469	12,199.1	2,115.6	0.00				Average
		point470	470	12,195.4	2,317.6	0.00				Average
		point471	471	12,257.9	2,504.9	0.00				Average
		point472	472	12,324.0	2,626.1	0.00				Average
		point473	473	12,408.4	2,725.3	0.00				Average
		point474	474	12,533.3	2,809.7	0.00				Average
		point475	475	12,790.4	2,953.0	0.00				
West Camino Del Rio (E of Int 27)	30.0	point528	528	9,396.9	2,075.2	0.00				Average
		point527	527	9,745.9	2,027.5	0.00				Average
		point526	526	10,065.4	1,972.4	0.00				Average
		point105	105	10,252.7	1,910.0	0.00				Average
		point447	447	10,539.1	1,865.9	0.00				Average
		point448	448	10,913.7	1,869.6	0.00				Average
		point449	449	11,299.3	1,843.9	0.00				Average
		point450	450	11,508.7	1,843.9	0.00				Average
		point451	451	11,651.9	1,854.9	0.00				Average
		point452	452	11,791.5	1,921.0	0.00				Average
		point453	453	11,949.4	2,027.5	0.00				Average
		point454	454	12,096.3	2,137.7	0.00				
East Camino Del Rio (E of Int 27)	30.0	point461	461	9,419.0	2,023.8	0.00				Average
		point460	460	9,786.3	1,972.4	0.00				Average
		point459	459	10,047.0	1,924.6	0.00				Average
		point458	458	10,300.4	1,858.6	0.00				Average
		point457	457	10,564.8	1,851.2	0.00				Average
		point456	456	11,170.8	1,832.8	0.00				Average
		point455	455	11,490.3	1,818.1	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point190	190	11,707.0	1,829.2	0.00				Average
		point192	192	12,063.2	2,086.3	0.00				
South Stadium Way	45.0	point478	478	4,605.4	4,060.7	0.00				Average
		point479	479	4,733.9	4,001.9	0.00				Average
		point480	480	4,807.3	3,935.8	0.00				Average
		point481	481	4,858.8	3,814.6	0.00				Average
		point482	482	4,910.2	3,311.5	0.00				Average
		point483	483	4,965.3	2,617.4	0.00				Average
		point569	569	5,013.0	2,117.9	0.00				
North Stadium Way	45.0	point484	484	4,954.3	4,238.5	0.00				Average
		point485	485	4,891.8	4,161.3	0.00				Average
		point486	486	4,862.4	4,109.9	0.00				Average
		point487	487	4,888.2	3,849.1	0.00				Average
		point488	488	4,891.8	3,687.6	0.00				Average
		point570	570	5,042.4	2,137.7	0.00				
West Stadium Way (W of Int 26)	20.0	point489	489	9,334.5	2,728.9	0.00				Average
		point490	490	9,239.0	2,688.5	0.00				Average
		point491	491	9,169.3	2,648.1	0.00				Average
		point492	492	8,912.2	2,640.8	0.00				Average
		point493	493	8,824.0	2,662.8	0.00				Average
		point494	494	8,735.9	2,681.2	0.00				Average
		point495	495	8,633.1	2,688.5	0.00				Average
		point496	496	8,570.6	2,677.5	0.00				Average
		point497	497	8,276.8	2,706.9	0.00				Average
		point498	498	8,129.9	2,747.3	0.00				
East Stadium Way (W of Int 26)	20.0	point499	499	9,334.5	2,703.2	0.00				Average
		point500	500	9,224.3	2,655.5	0.00				Average
		point501	501	9,169.3	2,629.8	0.00				Average
		point502	502	8,912.2	2,629.8	0.00				Average
		point503	503	8,842.4	2,637.1	0.00				Average
		point504	504	8,695.5	2,666.5	0.00				Average
		point505	505	8,592.7	2,662.8	0.00				Average
		point506	506	8,387.0	2,651.8	0.00				Average
		point507	507	8,273.2	2,666.5	0.00				Average
		point573	573	8,152.0	2,710.6	0.00				
5 West Friars- (W of Int 10)	40.0	point509	509	3,873.5	3,585.6	20.00				Average
		point32	32	2,797.5	2,575.7	20.00				
5 East Friars (W of Int 10)	40.0	point510	510	3,928.6	3,545.2	20.00				Average
		point63	63	2,834.2	2,524.2	20.00				

INPUT: ROADWAYS

SDSU West Campus

8 West Friars (Mission to 15)	40.0	point523	523	6,351.7	4,630.6	0.00				Average	
		point40	40	7,189.0	4,906.0	10.00				Average	
		point41	41	7,850.1	5,078.6	20.00				Average	Y
		point600	600	8,165.9	5,163.1	20.00					
8 East Friars (Mission to 15)	40.0	point524	524	6,353.9	4,582.8	0.00				Average	
		point521	521	6,882.7	4,759.1	5.00				Average	
		point522	522	7,169.2	4,858.3	10.00				Average	
		point71	71	7,606.2	4,972.1	20.00				Average	Y
		point599	599	8,228.7	5,142.9	15.00					
West Camino Del Rio (W of Int 27)	20.0	point529	529	2,684.6	-317.1	0.00				Average	
		point106	106	2,901.3	-214.2	0.00				Average	
		point107	107	3,235.5	-177.5	0.00				Average	
		point108	108	3,525.7	-111.4	0.00				Average	
		point109	109	3,698.3	-1.2	0.00				Average	
		point110	110	3,944.3	233.8	0.00				Average	
		point111	111	4,164.7	457.8	0.00				Average	
		point112	112	4,370.3	656.2	0.00				Average	
		point113	113	4,587.0	839.8	0.00				Average	
		point114	114	4,704.5	913.2	0.00				Average	
		point115	115	4,829.4	920.6	0.00				Average	
		point116	116	4,902.9	869.2	0.00				Average	
		point117	117	5,009.4	714.9	0.00				Average	
		point118	118	5,090.2	615.7	0.00				Average	
		point119	119	5,204.0	586.4	0.00				Average	
		point120	120	5,354.6	652.5	0.00				Average	
		point121	121	5,696.1	909.5	0.00				Average	
		point122	122	6,151.5	1,232.7	0.00				Average	
		point123	123	6,566.5	1,420.0	0.00				Average	
		point124	124	6,871.3	1,522.9	0.00				Average	
		point125	125	7,631.6	1,699.1	0.00				Average	
		point126	126	7,778.4	1,739.6	0.00				Average	
		point127	127	7,892.3	1,827.7	0.00				Average	
		point128	128	8,156.7	2,154.6	0.00				Average	
		point129	129	8,300.0	2,253.7	0.00				Average	
		point130	130	8,615.8	2,319.8	0.00				Average	
		point131	131	8,876.5	2,301.4	0.00				Average	
		point132	132	9,185.0	2,117.8	0.00				Average	
		point133	133	9,311.7	2,070.1	0.00					
East Camino Del Rio (W of Int 27)	20.0	point530	530	2,726.1	-320.7	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point193	193	2,873.0	-265.6	0.00				Average	
		point194	194	3,030.9	-236.3	0.00				Average	
		point195	195	3,229.3	-203.2	0.00				Average	
		point196	196	3,493.7	-166.5	0.00				Average	
		point197	197	3,651.6	-63.6	0.00				Average	
		point198	198	4,569.8	799.4	0.00				Average	
		point199	199	4,705.6	880.2	0.00				Average	
		point200	200	4,782.7	898.6	0.00				Average	
		point201	201	4,841.5	891.2	0.00				Average	
		point202	202	4,911.3	828.8	0.00				Average	
		point203	203	5,010.5	678.2	0.00				Average	
		point204	204	5,069.2	586.4	0.00				Average	
		point205	205	5,227.1	560.7	0.00				Average	
		point206	206	5,465.8	703.9	0.00				Average	
		point207	207	5,814.7	964.7	0.00				Average	
		point208	208	6,152.6	1,207.1	0.00				Average	
		point209	209	6,420.7	1,342.9	0.00				Average	
		point210	210	6,619.0	1,431.1	0.00				Average	
		point211	211	6,931.2	1,522.9	0.00				Average	
		point212	212	7,379.2	1,625.7	0.00				Average	
		point213	213	7,742.8	1,706.5	0.00				Average	
		point214	214	7,864.0	1,761.6	0.00				Average	
		point215	215	8,033.0	1,967.3	0.00				Average	
		point216	216	8,201.9	2,180.2	0.00				Average	
		point217	217	8,315.7	2,239.0	0.00				Average	
		point218	218	8,697.7	2,301.4	0.00				Average	
		point219	219	8,851.9	2,275.8	0.00				Average	
		point220	220	9,160.4	2,088.5	0.00				Average	
		point221	221	9,296.3	2,040.7	0.00					
West Twain Ave	20.0	point533	533	12,169.7	3,967.3	0.00				Average	
		point411	411	12,779.4	3,956.3	0.00					
East Twain Ave	20.0	point534	534	12,180.7	3,941.6	0.00				Average	
		point532	532	12,783.0	3,923.3	0.00					
East Friars (W of Int 9)	40.0	point538	538	6,270.2	4,544.9	20.00				Average	
		point539	539	6,057.2	4,464.1	20.00				Average	
		point540	540	5,925.0	4,427.4	20.00				Average	
		point541	541	5,737.7	4,409.0	20.00				Average	
		point542	542	5,388.8	4,383.3	20.00				Average	
		point543	543	5,230.9	4,357.6	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point563	563	5,032.6	4,295.1	20.00				Average	
		point564	564	4,830.6	4,203.3	20.00				Average	
		point565	565	4,595.5	4,067.5	20.00				Average	
		point566	566	4,349.5	3,905.8	20.00				Average	
		point567	567	4,220.9	3,803.0	20.00				Average	
		point568	568	3,985.9	3,590.0	20.00					
4 west Friars east of 805	40.0	point579	579	2,736.1	2,516.1	0.00				Average	
		point580	580	2,350.4	2,126.9	0.00				Average	
		point581	581	2,130.1	1,935.9	0.00				Average	
		point582	582	1,924.4	1,767.0	0.00				Average	
		point583	583	1,645.3	1,524.6	0.00					
4 East Friars east of 805	40.0	point584	584	2,776.4	2,475.8	0.00				Average	
		point585	585	2,508.3	2,189.3	0.00				Average	
		point586	586	2,321.1	2,035.0	0.00				Average	
		point587	587	2,152.1	1,866.1	0.00				Average	
		point588	588	1,961.2	1,715.6	0.00				Average	
		point589	589	1,685.7	1,491.5	0.00					
North River Run Dr	12.0	point590	590	2,471.7	1,092.6	0.00				Average	
		point591	591	2,273.7	1,256.6	0.00				Average	
		point592	592	2,157.8	1,399.4	0.00				Average	
		point593	593	1,962.7	1,696.4	0.00					
South River Run Dr	12.0	point594	594	2,478.7	1,132.2	0.00				Average	
		point595	595	2,319.0	1,259.4	0.00				Average	
		point596	596	2,234.1	1,354.2	0.00				Average	
		point597	597	2,101.2	1,528.1	0.00				Average	
		point598	598	1,995.2	1,707.7	0.00					
West Friars (15 to Rancho Mission)	40.0	point601	601	8,165.9	5,163.1	20.00				Average	Y
		point42	42	8,481.7	5,247.6	20.00				Average	
		point43	43	9,190.6	5,438.6	10.00				Average	
		point44	44	9,583.5	5,541.4	5.00				Average	
		point45	45	9,910.4	5,629.5	0.00				Average	
		point46	46	10,233.5	5,721.3	0.00				Average	
		point553	553	10,431.9	5,787.4	0.00				Average	Y
		point554	554	11,004.8	5,985.8	0.00					
9 East Friars (15 to Rancho Mission)	40.0	point602	602	8,228.7	5,142.9	15.00				Average	Y
		point72	72	8,851.2	5,313.7	10.00				Average	
		point73	73	9,578.4	5,490.0	10.00				Average	
		point74	74	10,155.0	5,636.9	10.00				Average	
		point75	75	10,738.9	5,842.5	5.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point76	76	11,010.7	5,930.7	0.00					
I-15 North	90.0	point603	603	8,885.7	-269.3	60.00				Average	
		point604	604	9,006.9	222.8	50.00				Average	
		point605	605	9,010.6	527.6	40.00				Average	
		point606	606	8,984.9	902.2	30.00				Average	
		point607	607	8,915.1	1,225.4	30.00				Average	Y
		point608	608	8,610.3	2,253.7	20.00				Average	Y
		point609	609	8,503.8	2,617.3	20.00				Average	Y
		point610	610	8,305.4	3,348.1	10.00				Average	
		point611	611	8,235.7	3,649.3	0.00				Average	
		point612	612	8,187.9	3,895.3	0.00				Average	
		point613	613	8,169.6	4,185.5	0.00				Average	
		point614	614	8,180.6	4,505.0	0.00				Average	
		point615	615	8,221.0	4,776.7	10.00				Average	
		point616	616	8,265.1	4,975.1	10.00				Average	
		point617	617	8,613.9	6,051.1	10.00				Average	
		point618	618	8,819.6	6,701.2	20.00				Average	
		point619	619	8,896.8	7,046.4	30.00				Average	Y
		point620	620	8,922.4	7,288.8	40.00				Average	Y
		point621	621	8,922.4	7,476.1	50.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

Dudek													
CB													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	SDSU West Campus												
RUN:	Existing												
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
					veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
South Mission Village Dr 26	point9	9	691	45	14	45	7	45	0	0	0	0	
	point8	8	691	45	14	45	7	45	0	0	0	0	
	point7	7	691	45	14	45	7	45	0	0	0	0	
	point6	6	691	45	14	45	7	45	0	0	0	0	
	point5	5	691	45	14	45	7	45	0	0	0	0	
	point4	4	691	45	14	45	7	45	0	0	0	0	
	point3	3	691	45	14	45	7	45	0	0	0	0	
	point2	2	691	45	14	45	7	45	0	0	0	0	
	point1	1											
North Mission Village Dr	point15	15	691	45	14	45	7	45	0	0	0	0	
	point16	16	691	45	14	45	7	45	0	0	0	0	
	point17	17	691	45	14	45	7	45	0	0	0	0	
	point18	18	691	45	14	45	7	45	0	0	0	0	
	point19	19	691	45	14	45	7	45	0	0	0	0	
	point535	535	691	45	14	45	7	45	0	0	0	0	
	point20	20	691	45	14	45	7	45	0	0	0	0	
	point21	21	691	45	14	45	7	45	0	0	0	0	
	point22	22	691	45	14	45	7	45	0	0	0	0	
	point23	23	691	45	14	45	7	45	0	0	0	0	
	point537	537											
westFriars (W of Int 9)	point58	58	2186	45	45	45	23	45	0	0	0	0	
	point59	59	2186	45	45	45	23	45	0	0	0	0	
	point60	60	2186	45	45	45	23	45	0	0	0	0	

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point61	61	2186	45	45	45	23	45	0	0	0	0
	point62	62	2186	45	45	45	23	45	0	0	0	0
	point555	555	2186	45	45	45	23	45	0	0	0	0
	point556	556	2186	45	45	45	23	45	0	0	0	0
	point557	557	2186	45	45	45	23	45	0	0	0	0
	point558	558	2186	45	45	45	23	45	0	0	0	0
	point559	559	2186	45	45	45	23	45	0	0	0	0
	point560	560	2186	45	45	45	23	45	0	0	0	0
	point561	561	2186	45	45	45	23	45	0	0	0	0
	point562	562										
17 West San Diego Mission Rd	point77	77	371	45	8	45	4	45	0	0	0	0
	point78	78	371	45	8	45	4	45	0	0	0	0
	point79	79	371	45	8	45	4	45	0	0	0	0
	point80	80	371	45	8	45	4	45	0	0	0	0
	point81	81	371	45	8	45	4	45	0	0	0	0
	point82	82	371	45	8	45	4	45	0	0	0	0
	point83	83	371	45	8	45	4	45	0	0	0	0
	point84	84	371	45	8	45	4	45	0	0	0	0
	point85	85	371	45	8	45	4	45	0	0	0	0
	point86	86	371	45	8	45	4	45	0	0	0	0
	point87	87										
17 East San Diego Mission Rd	point88	88	449	45	9	45	5	45	0	0	0	0
	point89	89	449	45	9	45	5	45	0	0	0	0
	point90	90	449	45	9	45	5	45	0	0	0	0
	point91	91	449	45	9	45	5	45	0	0	0	0
	point92	92	449	45	9	45	5	45	0	0	0	0
	point93	93	449	45	9	45	5	45	0	0	0	0
	point94	94	449	45	9	45	5	45	0	0	0	0
	point95	95	449	45	9	45	5	45	0	0	0	0
	point96	96										
22 North Ward Rd	point97	97	484	45	10	45	5	45	0	0	0	0
	point98	98										
South Ward Row	point102	102	484	45	10	45	5	45	0	0	0	0
	point103	103										
South Fenton Pkwy (S of Int 9)	point242	242	251	30	5	30	3	30	0	0	0	0
	point243	243	251	30	5	30	3	30	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point244	244	251	30	5	30	3	30	0	0	0	0
	point245	245	251	30	5	30	3	30	0	0	0	0
	point246	246	251	30	5	30	3	30	0	0	0	0
	point247	247	251	30	5	30	3	30	0	0	0	0
	point248	248	251	30	5	30	3	30	0	0	0	0
	point249	249	251	30	5	30	3	30	0	0	0	0
	point250	250	251	30	5	30	3	30	0	0	0	0
	point251	251	251	30	5	30	3	30	0	0	0	0
	point252	252	251	30	5	30	3	30	0	0	0	0
	point253	253										
16 North Fenton Pkwy (S of Int 9)	point255	255	251	30	5	30	3	30	0	0	0	0
	point256	256	251	30	5	30	3	30	0	0	0	0
	point257	257	251	30	5	30	3	30	0	0	0	0
	point258	258	251	30	5	30	3	30	0	0	0	0
	point259	259	251	30	5	30	3	30	0	0	0	0
	point260	260	251	30	5	30	3	30	0	0	0	0
	point261	261										
South Fenton Pkwy (N of Int 9)	point268	268	0	0	0	0	0	0	0	0	0	0
	point269	269	0	0	0	0	0	0	0	0	0	0
	point270	270	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point274	274										
North Fenton Pkwy (N of Int 9)	point275	275	0	0	0	0	0	0	0	0	0	0
	point276	276	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point280	280	0	0	0	0	0	0	0	0	0	0
	point281	281	0	0	0	0	0	0	0	0	0	0
	point282	282	0	0	0	0	0	0	0	0	0	0
	point571	571										
North Northside Dr	point283	283	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point286	286	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point289	289										
South Northside Dr	point291	291	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point293	293	0	0	0	0	0	0	0	0	0	0
	point294	294	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point297	297										
15 West Rio San Diego Dr	point299	299	449	45	9	45	5	45	0	0	0	0
	point300	300	449	45	9	45	5	45	0	0	0	0
	point301	301	449	45	9	45	5	45	0	0	0	0
	point302	302	449	45	9	45	5	45	0	0	0	0
	point303	303	449	45	9	45	5	45	0	0	0	0
	point304	304	449	45	9	45	5	45	0	0	0	0
	point305	305	449	45	9	45	5	45	0	0	0	0
	point306	306	449	45	9	45	5	45	0	0	0	0
	point307	307	449	45	9	45	5	45	0	0	0	0
	point577	577										
15 East Rio San Diego Dr	point308	308	449	45	9	45	5	45	0	0	0	0
	point309	309	449	45	9	45	5	45	0	0	0	0
	point310	310	449	45	9	45	5	45	0	0	0	0
	point311	311	449	45	9	45	5	45	0	0	0	0
	point312	312	449	45	9	45	5	45	0	0	0	0
	point313	313	449	45	9	45	5	45	0	0	0	0
	point314	314	449	45	9	45	5	45	0	0	0	0
	point315	315	449	45	9	45	5	45	0	0	0	0
	point578	578										
I15 South	point316	316	9108	65	188	65	94	65	0	0	0	0
	point318	318	9108	65	188	65	94	65	0	0	0	0
	point319	319	9108	65	188	65	94	65	0	0	0	0
	point320	320	9108	65	188	65	94	65	0	0	0	0
	point321	321	9108	65	188	65	94	65	0	0	0	0
	point 322	322	9108	65	188	65	94	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point323	323	9108	65	188	65	94	65	0	0	0	0
	point324	324	9108	65	188	65	94	65	0	0	0	0
	point325	325	9108	65	188	65	94	65	0	0	0	0
	point326	326	9108	65	188	65	94	65	0	0	0	0
	point327	327	9108	65	188	65	94	65	0	0	0	0
	point328	328	9108	65	188	65	94	65	0	0	0	0
	point329	329	9108	65	188	65	94	65	0	0	0	0
	point330	330										
I8 West	point354	354	10006	65	206	65	103	65	0	0	0	0
	point355	355	10006	65	206	65	103	65	0	0	0	0
	point356	356	10006	65	206	65	103	65	0	0	0	0
	point357	357	10006	65	206	65	103	65	0	0	0	0
	point358	358	10006	65	206	65	103	65	0	0	0	0
	point359	359	10006	65	206	65	103	65	0	0	0	0
	point360	360	10006	65	206	65	103	65	0	0	0	0
	point361	361	10006	65	206	65	103	65	0	0	0	0
	point362	362	10006	65	206	65	103	65	0	0	0	0
	point363	363	10006	65	206	65	103	65	0	0	0	0
	point364	364	10006	65	206	65	103	65	0	0	0	0
	point365	365	10006	65	206	65	103	65	0	0	0	0
	point548	548	10006	65	206	65	103	65	0	0	0	0
	point549	549	10006	65	206	65	103	65	0	0	0	0
	point550	550	10006	65	206	65	103	65	0	0	0	0
	point551	551	10006	65	206	65	103	65	0	0	0	0
	point552	552										
I8 East	point366	366	10006	65	209	65	105	65	0	0	0	0
	point367	367	10006	65	209	65	105	65	0	0	0	0
	point368	368	10006	65	209	65	105	65	0	0	0	0
	point369	369	10006	65	209	65	105	65	0	0	0	0
	point370	370	10006	65	209	65	105	65	0	0	0	0
	point371	371	10006	65	209	65	105	65	0	0	0	0
	point 372	372	10006	65	209	65	105	65	0	0	0	0
	point373	373	10006	65	209	65	105	65	0	0	0	0
	point374	374	10006	65	209	65	105	65	0	0	0	0
	point375	375	10006	65	209	65	105	65	0	0	0	0
	point376	376	10006	65	209	65	105	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point377	377	10006	65	209	65	105	65	0	0	0	0
	point378	378	10006	65	209	65	105	65	0	0	0	0
	point547	547										
19 South Rancho Mission Rd (S friars)	point379	379	738	45	15	45	8	45	0	0	0	0
	point380	380	738	45	15	45	8	45	0	0	0	0
	point381	381	738	45	15	45	8	45	0	0	0	0
	point382	382	738	45	15	45	8	45	0	0	0	0
	point383	383	738	45	15	45	8	45	0	0	0	0
	point384	384	738	45	15	45	8	45	0	0	0	0
	point385	385	738	45	15	45	8	45	0	0	0	0
	point386	386	738	45	15	45	8	45	0	0	0	0
	point387	387	738	45	15	45	8	45	0	0	0	0
	point388	388	738	45	15	45	8	45	0	0	0	0
	point572	572										
North Mission Road (S of Friars)	point389	389	738	45	15	45	8	45	0	0	0	0
	point390	390	738	45	15	45	8	45	0	0	0	0
	point391	391	738	45	15	45	8	45	0	0	0	0
	point392	392	738	45	15	45	8	45	0	0	0	0
	point393	393	738	45	15	45	8	45	0	0	0	0
	point394	394	738	45	15	45	8	45	0	0	0	0
	point395	395	738	45	15	45	8	45	0	0	0	0
	point396	396	738	45	15	45	8	45	0	0	0	0
	point397	397	738	45	15	45	8	45	0	0	0	0
	point398	398	738	45	15	45	8	45	0	0	0	0
	point399	399										
West San Diego Mission Rd (E of Int 24)	point401	401	428	45	9	45	4	45	0	0	0	0
	point402	402	428	45	9	45	4	45	0	0	0	0
	point403	403	428	45	9	45	4	45	0	0	0	0
	point404	404	428	45	9	45	4	45	0	0	0	0
	point405	405	428	45	9	45	4	45	0	0	0	0
	point406	406	428	45	9	45	4	45	0	0	0	0
	point407	407	428	45	9	45	4	45	0	0	0	0
	point408	408	428	45	9	45	4	45	0	0	0	0
	point409	409	428	45	9	45	4	45	0	0	0	0
	point410	410	428	45	9	45	4	45	0	0	0	0
	point575	575	428	45	9	45	4	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point576	576										
East San Diego Mission Rd (E of Int 24)	point424	424	428	45	9	45	4	45	0	0	0	0
	point425	425	428	45	9	45	4	45	0	0	0	0
	point426	426	428	45	9	45	4	45	0	0	0	0
	point427	427	428	45	9	45	4	45	0	0	0	0
	point428	428	428	45	9	45	4	45	0	0	0	0
	point429	429	428	45	9	45	4	45	0	0	0	0
	point430	430	428	45	9	45	4	45	0	0	0	0
	point431	431	428	45	9	45	4	45	0	0	0	0
	point432	432	428	45	9	45	4	45	0	0	0	0
	point433	433	428	45	9	45	4	45	0	0	0	0
	point434	434										
South Fairmount Ave (N of Int 25)	point436	436	0	0	0	0	0	0	0	0	0	0
	point437	437										
North Fairmount Ave (N of Int 25)	point438	438	0	0	0	0	0	0	0	0	0	0
	point439	439										
23 South Fairmount Ave (S of Int 25)	point440	440	350	45	7	45	4	45	0	0	0	0
	point441	441	350	45	7	45	4	45	0	0	0	0
	point442	442	350	45	7	45	4	45	0	0	0	0
	point443	443										
North Fairmount Ave (S of Int 25)	point444	444	350	45	7	45	4	45	0	0	0	0
	point445	445	350	45	7	45	4	45	0	0	0	0
	point446	446	350	45	7	45	4	45	0	0	0	0
	point574	574										
South Mission Gorge Rd	point462	462	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point466	466	0	0	0	0	0	0	0	0	0	0
	point467	467										
North Mission Gorge Rd	point469	469	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point472	472	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point475	475										
West Camino Del Rio (E of Int 27)	point528	528	0	0	0	0	0	0	0	0	0	0
	point527	527	0	0	0	0	0	0	0	0	0	0
	point526	526	0	0	0	0	0	0	0	0	0	0
	point105	105	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454										
East Camino Del Rio (E of Int 27)	point461	461	0	0	0	0	0	0	0	0	0	0
	point460	460	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point455	455	0	0	0	0	0	0	0	0	0	0
	point190	190	0	0	0	0	0	0	0	0	0	0
	point192	192										
South Stadium Way	point478	478	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point569	569										
North Stadium Way	point484	484	0	0	0	0	0	0	0	0	0	0
	point485	485	0	0	0	0	0	0	0	0	0	0
	point486	486	0	0	0	0	0	0	0	0	0	0
	point487	487	0	0	0	0	0	0	0	0	0	0
	point488	488	0	0	0	0	0	0	0	0	0	0
	point570	570										
West Stadium Way (W of Int 26)	point489	489	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point490	490	0	0	0	0	0	0	0	0	0	0
	point491	491	0	0	0	0	0	0	0	0	0	0
	point492	492	0	0	0	0	0	0	0	0	0	0
	point493	493	0	0	0	0	0	0	0	0	0	0
	point494	494	0	0	0	0	0	0	0	0	0	0
	point495	495	0	0	0	0	0	0	0	0	0	0
	point496	496	0	0	0	0	0	0	0	0	0	0
	point497	497	0	0	0	0	0	0	0	0	0	0
	point498	498										
East Stadium Way (W of Int 26)	point499	499	0	0	0	0	0	0	0	0	0	0
	point500	500	0	0	0	0	0	0	0	0	0	0
	point501	501	0	0	0	0	0	0	0	0	0	0
	point502	502	0	0	0	0	0	0	0	0	0	0
	point503	503	0	0	0	0	0	0	0	0	0	0
	point504	504	0	0	0	0	0	0	0	0	0	0
	point505	505	0	0	0	0	0	0	0	0	0	0
	point506	506	0	0	0	0	0	0	0	0	0	0
	point507	507	0	0	0	0	0	0	0	0	0	0
	point573	573										
5 West Friars- (W of Int 10)	point509	509	1699	45	35	45	18	45	0	0	0	0
	point32	32										
5 East Friars (W of Int 10)	point510	510	1699	45	35	45	18	45	0	0	0	0
	point63	63										
8 West Friars (Mission to 15)	point523	523	2122	45	44	45	22	45	0	0	0	0
	point40	40	2122	45	44	45	22	45	0	0	0	0
	point41	41	2122	45	44	45	22	45	0	0	0	0
	point600	600										
8 East Friars (Mission to 15)	point524	524	2122	45	44	45	22	45	0	0	0	0
	point521	521	2122	45	44	45	22	45	0	0	0	0
	point522	522	2122	45	44	45	22	45	0	0	0	0
	point71	71	2122	45	44	45	22	45	0	0	0	0
	point599	599										
West Camino Del Rio (W of Int 27)	point529	529	0	0	0	0	0	0	0	0	0	0
	point106	106	0	0	0	0	0	0	0	0	0	0
	point107	107	0	0	0	0	0	0	0	0	0	0
	point108	108	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point109	109	0	0	0	0	0	0	0	0	0	0
	point110	110	0	0	0	0	0	0	0	0	0	0
	point111	111	0	0	0	0	0	0	0	0	0	0
	point112	112	0	0	0	0	0	0	0	0	0	0
	point113	113	0	0	0	0	0	0	0	0	0	0
	point114	114	0	0	0	0	0	0	0	0	0	0
	point115	115	0	0	0	0	0	0	0	0	0	0
	point116	116	0	0	0	0	0	0	0	0	0	0
	point117	117	0	0	0	0	0	0	0	0	0	0
	point118	118	0	0	0	0	0	0	0	0	0	0
	point119	119	0	0	0	0	0	0	0	0	0	0
	point120	120	0	0	0	0	0	0	0	0	0	0
	point121	121	0	0	0	0	0	0	0	0	0	0
	point122	122	0	0	0	0	0	0	0	0	0	0
	point123	123	0	0	0	0	0	0	0	0	0	0
	point124	124	0	0	0	0	0	0	0	0	0	0
	point125	125	0	0	0	0	0	0	0	0	0	0
	point126	126	0	0	0	0	0	0	0	0	0	0
	point127	127	0	0	0	0	0	0	0	0	0	0
	point128	128	0	0	0	0	0	0	0	0	0	0
	point129	0 9	0	0	0	0	0	0	0	0	0	0
	point130	130	0	0	0	0	0	0	0	0	0	0
	point131	131	0	0	0	0	0	0	0	0	0	0
	point132	132	0	0	0	0	0	0	0	0	0	0
	point133	133										
East Camino Del Rio (W of Int 27)	point530	530	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point211	211	0	0	0	0	0	0	0	0	0	0
	point212	212	0	0	0	0	0	0	0	0	0	0
	point213	213	0	0	0	0	0	0	0	0	0	0
	point214	214	0	0	0	0	0	0	0	0	0	0
	point215	215	0	0	0	0	0	0	0	0	0	0
	point216	216	0	0	0	0	0	0	0	0	0	0
	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221										
West Twain Ave	point533	533	0	0	0	0	0	0	0	0	0	0
	point411	411										
East Twain Ave	point534	534	0	0	0	0	0	0	0	0	0	0
	point532	532										
East Friars (W of Int 9)	point538	538	2186	45	45	45	23	45	0	0	0	0
	point539	539	2186	45	45	45	23	45	0	0	0	0
	point540	540	2186	45	45	45	23	45	0	0	0	0
	point541	541	2186	45	45	45	23	45	0	0	0	0
	point542	542	2186	45	45	45	23	45	0	0	0	0
	point543	543	2186	45	45	45	23	45	0	0	0	0
	point563	563	2186	45	45	45	23	45	0	0	0	0
	point564	564	2186	45	45	45	23	45	0	0	0	0
	point565	565	2186	45	45	45	23	45	0	0	0	0
	point566	566	2186	45	45	45	23	45	0	0	0	0
	point567	567	2186	45	45	45	23	45	0	0	0	0
	point568	568										
4 west Friars east of 805	point579	579	1734	45	36	45	18	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point580	580	1734	45	36	45	18	45	0	0	0	0
	point581	581	1734	45	36	45	18	45	0	0	0	0
	point582	582	1734	45	36	45	18	45	0	0	0	0
	point583	583										
4 East Friars east of 805	point584	584	1734	45	36	45	18	45	0	0	0	0
	point585	585	1734	45	36	45	18	45	0	0	0	0
	point586	586	1734	45	36	45	18	45	0	0	0	0
	point587	587	1734	45	36	45	18	45	0	0	0	0
	point588	588	1734	45	36	45	18	45	0	0	0	0
	point589	589										
North River Run Dr	point590	590	0	0	0	0	0	0	0	0	0	0
	point591	591	0	0	0	0	0	0	0	0	0	0
	point592	592	0	0	0	0	0	0	0	0	0	0
	point593	593										
South River Run Dr	point594	594	0	0	0	0	0	0	0	0	0	0
	point595	595	0	0	0	0	0	0	0	0	0	0
	point596	596	0	0	0	0	0	0	0	0	0	0
	point597	597	0	0	0	0	0	0	0	0	0	0
	point598	598										
West Friars (15 to Rancho Mission)	point601	601	2929	45	60	45	30	45	0	0	0	0
	point42	42	2929	45	60	45	30	45	0	0	0	0
	point43	43	2929	45	60	45	30	45	0	0	0	0
	point44	44	2929	45	60	45	30	45	0	0	0	0
	point45	45	2929	45	60	45	30	45	0	0	0	0
	point46	46	2929	45	60	45	30	45	0	0	0	0
	point553	553	2929	45	60	45	30	45	0	0	0	0
	point554	554										
9 East Friars (15 to Rancho Mission)	point602	602	2929	45	60	45	30	45	0	0	0	0
	point72	72	2929	45	60	45	30	45	0	0	0	0
	point73	73	2929	45	60	45	30	45	0	0	0	0
	point74	74	2929	45	60	45	30	45	0	0	0	0
	point75	75	2929	45	60	45	30	45	0	0	0	0
	point76	76										
I-15 North	point603	603	7781	65	160	65	80	65	0	0	0	0
	point604	604	7781	65	160	65	80	65	0	0	0	0
	point605	605	7781	65	160	65	80	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**SDSU West Campus**

	point606	606	7781	65	160	65	80	65	0	0	0	0
	point607	607	7781	65	160	65	80	65	0	0	0	0
	point608	608	7781	65	160	65	80	65	0	0	0	0
	point609	609	7781	65	160	65	80	65	0	0	0	0
	point610	610	7781	65	160	65	80	65	0	0	0	0
	point611	611	7781	65	160	65	80	65	0	0	0	0
	point612	612	7781	65	160	65	80	65	0	0	0	0
	point613	613	7781	65	160	65	80	65	0	0	0	0
	point614	614	7781	65	160	65	80	65	0	0	0	0
	point615	615	7781	65	160	65	80	65	0	0	0	0
	point616	616	7781	65	160	65	80	65	0	0	0	0
	point617	617	7781	65	160	65	80	65	0	0	0	0
	point618	618	7781	65	160	65	80	65	0	0	0	0
	point619	619	7781	65	160	65	80	65	0	0	0	0
	point620	620	7781	65	160	65	80	65	0	0	0	0
	point621	621										

INPUT: RECEIVERS

SDSU West Campus

							22 February 2019				
							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:							SDSU West Campus				
RUN:							Existing				
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing	Impact Criteria		NR	
							LAeq1h	LAeq1h	Sub'l	Goal	
			ft	ft	ft		ft	ft	ft	ft	
ST9	1	1	5,119.4	6,645.4	250.00	4.92	52.50	66	10.0	8.0	Y
ST10	2	1	6,573.6	5,525.0	200.00	4.92	52.80	66	10.0	8.0	Y
ST1	3	1	8,338.7	3,886.4	0.00	4.92	77.40	66	10.0	8.0	Y
ST2a	4	1	8,632.8	2,814.1	0.00	4.92	72.20	66	10.0	8.0	Y
ST8	5	1	9,471.6	2,808.0	0.00	4.92	67.00	66	10.0	8.0	Y
ST3	6	1	4,776.5	4,099.3	0.00	4.92	64.90	66	10.0	8.0	Y
ST5	8	1	4,729.6	3,692.2	0.00	4.92	53.70	66	10.0	8.0	Y
ST4	9	1	8,367.3	347.6	150.00	4.92	69.10	66	10.0	8.0	Y
ST7	10	1	4,336.6	1,707.8	0.00	4.92	59.00	66	10.0	8.0	Y
ST6	11	1	5,594.8	1,170.3	0.00	4.92	65.10	66	10.0	8.0	Y

INPUT: BUILDING ROWS

SDSU West Campus

Dudek								22 February 2019
CB								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	SDSU West Campus							
RUN:	Existing							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building2-Building1	30.00	80	5	4,686.0	3,683.4	0.00		
			6	4,513.6	3,879.2	0.00		
			1	4,511.5	3,881.2	0.00		
			2	4,596.4	3,958.3	0.00		
			3	4,777.9	3,758.9	0.00		
			4	4,689.1	3,681.0	0.00		
Building10	20.00	50	29	6,423.0	5,510.9	200.00		
			30	6,480.1	5,374.0	200.00		
			31	6,537.1	5,323.8	200.00		
			32	6,614.7	5,328.3	200.00		
			33	6,686.6	5,339.7	200.00		
			34	6,712.8	5,358.0	200.00		
			35	6,691.1	5,443.5	200.00		
			36	6,682.0	5,510.9	200.00		
			37	6,674.0	5,539.4	200.00		
Building11	20.00	80	47	5,448.5	6,823.5	250.00		
			48	5,254.6	6,581.5	250.00		
			49	5,342.4	6,530.2	250.00		
			50	5,513.6	6,774.4	250.00		
Building12	20.00	80	51	5,131.6	6,657.7	250.00		
			52	5,197.3	6,592.4	250.00		
			53	5,445.6	6,881.1	250.00		
			54	5,196.4	7,337.2	250.00		
			55	5,118.2	7,293.4	250.00		

INPUT: BUILDING ROWS**SDSU West Campus**

			56	5,316.7	6,898.3	250.00
			57	5,132.0	6,658.6	250.00

INPUT: GROUND ZONES

SDSU West Campus

Dudek				22 February 2019	
CB				TNM 2.5	
INPUT: GROUND ZONES					
PROJECT/CONTRACT:		SDSU West Campus			
RUN:		Existing			
Ground Zone				Points	
Name	Type	Flow	No.	Coordinates	
		Resistivity		X	Y
		cgs rayls		ft	ft
Ground Zone1	Loose Soil	500	1	4,727.0	1,193.7
			2	6,088.3	1,805.5
			3	6,380.8	1,386.8
			4	5,170.6	620.1
Ground Zone2	Loose Soil	500	5	5,116.5	6,663.9
			6	5,298.1	6,895.3
			7	5,101.2	7,315.9
			8	5,005.6	7,233.7
			9	5,129.9	6,977.5
			10	5,041.9	6,748.0

RESULTS: SOUND LEVELS

SDSU West Campus

Dudek													22 February 2019	
CB													TNM 2.5	
													Calculated with TNM 2.5	
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:													SDSU West Campus	
RUN:													Existing + Project	
BARRIER DESIGN:													INPUT HEIGHTS	
													Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.	
ATMOSPHERICS:													68 deg F, 50% RH	
Receiver														
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal	
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
ST9		1	1	52.5	55.7	66	3.2	10	----	55.7	0.0	8	-8.0	
ST10		2	1	52.8	55.8	66	3.0	10	----	55.8	0.0	8	-8.0	
ST1		3	1	77.4	78.1	66	0.7	10	Snd Lvl	78.1	0.0	8	-8.0	
ST2a		4	1	72.2	74.8	66	2.6	10	Snd Lvl	74.8	0.0	8	-8.0	
ST8		5	1	67.0	68.4	66	1.4	10	Snd Lvl	68.4	0.0	8	-8.0	
ST3		6	1	64.9	63.9	66	-1.0	10	----	63.9	0.0	8	-8.0	
ST5		8	1	53.7	57.0	66	3.3	10	----	57.0	0.0	8	-8.0	
ST4		9	1	69.1	70.4	66	1.3	10	Snd Lvl	70.4	0.0	8	-8.0	
ST7		10	1	59.0	59.7	66	0.7	10	----	59.7	0.0	8	-8.0	
ST6		11	1	65.1	68.1	66	3.0	10	Snd Lvl	68.1	0.0	8	-8.0	
Dwelling Units			# DUs	Noise Reduction										
				Min	Avg	Max								
				dB	dB	dB								
All Selected			10	0.0	0.0	0.0								
All Impacted			5	0.0	0.0	0.0								
All that meet NR Goal			0	0.0	0.0	0.0								

INPUT: ROADWAYS

SDSU West Campus

				22 February 2019 TNM 2.5								
Dudek CB												
INPUT: ROADWAYS							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA					
PROJECT/CONTRACT:		SDSU West Campus										
RUN:		Existing + Project										
Roadway	Width	Points	No.	Coordinates (pavement)			Flow Control			Segment		
Name		Name		X	Y	Z	Control	Speed	Percent	Pvmt	On	
							Device	Constraint	Vehicles	Type	Struct?	
	ft			ft	ft	ft		mph	%			
South Mission Village Dr 26	30.0	point9	9	6,292.3	4,593.3	0.00				Average		
		point8	8	6,222.5	5,085.5	50.00				Average		
		point7	7	6,196.8	5,331.5	60.00				Average		
		point6	6	6,141.7	5,651.1	70.00				Average		
		point5	5	6,024.1	5,904.5	120.00				Average		
		point4	4	5,840.5	6,253.3	150.00				Average		
		point3	3	5,642.2	6,613.3	200.00				Average		
		point2	2	5,451.2	6,929.1	240.00				Average		
		point1	1	5,234.5	7,325.7	240.00						
North Mission Village Dr	30.0	point15	15	6,329.0	4,615.4	0.00				Average		
		point16	16	6,284.9	4,909.2	0.00				Average		
		point17	17	6,248.2	5,265.4	50.00				Average		
		point18	18	6,207.8	5,478.4	60.00				Average		
		point19	19	6,174.7	5,636.4	63.00				Average		
		point535	535	6,049.9	5,937.5	120.00				Average		
		point20	20	5,866.2	6,257.0	200.00				Average		
		point21	21	5,701.0	6,561.8	200.00				Average		
		point22	22	5,506.3	6,899.7	240.00				Average		
		point23	23	5,289.7	7,296.3	240.00				Average		
		point537	537	5,263.9	7,333.1	240.00						
westFriars (W of Int 9)	40.0	point58	58	6,262.9	4,596.3	20.00				Average		
		point59	59	6,116.0	4,533.9	20.00				Average		
		point60	60	5,965.4	4,482.4	20.00				Average		
		point61	61	5,840.5	4,467.7	20.00				Average		
		point62	62	5,495.3	4,427.4	20.00				Average		

INPUT: ROADWAYS

SDSU West Campus

		point555	555	5,263.9	4,412.7	20.00				Average	
		point556	556	5,047.3	4,353.9	20.00				Average	
		point557	557	4,874.6	4,287.8	20.00				Average	
		point558	558	4,628.6	4,129.9	20.00				Average	
		point559	559	4,426.6	4,030.7	20.00				Average	
		point560	560	4,261.4	3,924.2	20.00				Average	
		point561	561	4,055.7	3,744.3	20.00				Average	
		point562	562	3,945.5	3,641.4	20.00					
17 West San Diego Mission Rd	20.0	point77	77	6,442.0	4,400.7	0.00				Average	
		point78	78	6,666.0	4,540.3	0.00				Average	
		point79	79	6,816.6	4,606.3	0.00				Average	
		point80	80	6,970.9	4,676.1	5.00				Average	
		point81	81	7,121.5	4,672.4	10.00				Average	
		point82	82	7,437.3	4,599.0	15.00				Average	
		point83	83	7,955.1	4,444.8	20.00				Average	Y
		point84	84	8,370.1	4,319.9	15.00				Average	
		point85	85	8,730.0	4,213.4	10.00				Average	
		point86	86	9,078.9	4,059.2	5.00				Average	
		point87	87	9,372.7	3,941.6	0.00					
17 East San Diego Mission Rd	20.0	point88	88	6,456.7	4,386.0	0.00				Average	
		point89	89	6,735.8	4,536.6	0.00				Average	
		point90	90	6,952.5	4,632.1	5.00				Average	
		point91	91	7,077.4	4,650.4	10.00				Average	
		point92	92	7,235.3	4,628.4	20.00				Average	Y
		point93	93	7,991.8	4,408.0	20.00				Average	Y
		point94	94	8,557.4	4,239.1	10.00				Average	
		point95	95	9,005.5	4,066.5	5.00				Average	
		point96	96	9,339.7	3,923.3	0.00					
22 North Ward Rd	30.0	point97	97	9,400.6	3,882.1	0.00				Average	
		point98	98	9,386.0	2,130.3	0.00					
22 South Ward Row	30.0	point102	102	9,367.6	3,893.1	0.00				Average	
		point103	103	9,363.9	2,119.3	0.00					
16 South Fenton Pkwy (S of Int 9)	30.0	point242	242	4,260.1	1,609.0	0.00				Average	
		point243	243	4,157.3	1,686.2	0.00				Average	
		point244	244	4,076.5	1,733.9	0.00				Average	
		point245	245	3,999.4	1,752.3	0.00				Average	
		point246	246	3,900.2	1,774.3	0.00				Average	
		point247	247	3,782.7	1,800.0	0.00				Average	
		point248	248	3,551.3	1,866.1	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point249	249	3,426.5	1,895.5	0.00				Average
		point250	250	3,294.3	1,980.0	0.00				Average
		point251	251	3,202.5	2,057.1	0.00				Average
		point252	252	3,081.3	2,182.0	0.00				Average
		point253	253	2,805.8	2,472.1	0.00				
16 North Fenton Pkwy (S of Int 9)	30.0	point255	255	2,842.6	2,501.5	0.00				Average
		point256	256	3,283.3	2,024.0	0.00				Average
		point257	257	3,393.4	1,969.0	0.00				Average
		point258	258	3,624.8	1,888.2	0.00				Average
		point259	259	3,859.8	1,840.4	0.00				Average
		point260	260	4,032.4	1,800.0	0.00				Average
		point261	261	4,252.8	1,645.8	0.00				
South Fenton Pkwy (N of Int 9)	30.0	point268	268	2,721.4	2,549.2	0.00				Average
		point269	269	2,523.0	2,776.9	0.00				Average
		point270	270	2,431.2	2,912.8	0.00				Average
		point271	271	2,310.0	3,089.1	0.00				Average
		point272	272	2,240.3	3,228.6	0.00				Average
		point273	273	2,196.2	3,404.9	0.00				Average
		point274	274	2,188.8	3,794.2	0.00				
North Fenton Pkwy (N of Int 9)	30.0	point275	275	2,758.1	2,578.6	0.00				Average
		point276	276	2,548.8	2,846.7	0.00				Average
		point277	277	2,427.6	3,000.9	0.00				Average
		point278	278	2,343.1	3,144.2	0.00				Average
		point279	279	2,295.3	3,232.3	0.00				Average
		point280	280	2,251.3	3,342.5	0.00				Average
		point281	281	2,229.2	3,511.4	0.00				Average
		point282	282	2,225.6	3,753.8	0.00				Average
		point571	571	2,229.2	3,801.5	0.00				
North Northside Dr	12.0	point283	283	3,900.2	3,642.2	0.00				Average
		point284	284	3,735.0	3,818.4	0.00				Average
		point285	285	3,632.2	3,943.3	0.00				Average
		point286	286	3,547.7	3,987.4	0.00				Average
		point287	287	3,444.8	4,075.5	0.00				Average
		point288	288	3,286.9	4,138.0	0.00				Average
		point289	289	3,015.2	4,251.8	0.00				
South Northside Dr	12.0	point291	291	3,870.9	3,606.9	0.00				Average
		point292	292	3,628.5	3,904.4	0.00				Average
		point293	293	3,529.3	3,981.5	0.00				Average
		point294	294	3,437.5	4,040.3	0.00				Average

INPUT: ROADWAYS

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		point295	295	3,305.3	4,099.0	0.00				Average	
		point296	296	3,103.3	4,190.8	0.00				Average	
		point297	297	2,996.8	4,238.6	0.00					
15 West Rio San Diego Dr	30.0	point299	299	1,806.9	609.4	0.00				Average	
		point300	300	2,005.2	675.5	0.00				Average	
		point301	301	2,141.1	741.6	0.00				Average	
		point302	302	2,313.7	888.5	0.00				Average	
		point303	303	2,493.7	1,094.2	0.00				Average	
		point304	304	2,647.9	1,263.1	0.00				Average	
		point305	305	2,835.2	1,509.2	0.00				Average	
		point306	306	2,941.7	1,608.3	0.00				Average	
		point307	307	3,083.5	1,746.2	0.00				Average	
		point577	577	3,261.1	1,998.8	0.00					
15 East Rio San Diego Dr	30.0	point308	308	1,854.6	572.6	0.00				Average	
		point309	309	2,097.0	675.5	0.00				Average	
		point310	310	2,295.3	829.7	0.00				Average	
		point311	311	2,490.0	1,024.4	0.00				Average	
		point312	312	2,692.0	1,263.1	0.00				Average	
		point313	313	2,853.6	1,479.8	0.00				Average	
		point314	314	2,952.7	1,597.3	0.00				Average	
		point315	315	3,084.9	1,711.1	0.00				Average	
		point578	578	3,279.6	1,957.2	0.00					
I15 South	90.0	point316	316	8,797.6	-298.7	75.00				Average	
		point318	318	8,904.1	142.0	60.00				Average	
		point319	319	8,944.5	443.1	40.00				Average	
		point320	320	8,933.5	825.1	20.00				Average	
		point321	321	8,834.3	1,163.0	20.00				Average	Y
		point 322	322	8,562.5	2,121.5	20.00				Average	Y
		point323	323	8,367.9	2,841.3	0.00				Average	
		point324	324	8,118.2	3,763.1	0.00				Average	
		point325	325	8,092.5	4,325.0	0.00				Average	
		point326	326	8,184.3	4,964.0	0.00				Average	
		point327	327	8,290.8	5,313.0	0.00				Average	
		point328	328	8,698.4	6,613.0	0.00				Average	
		point329	329	8,812.3	7,064.8	15.00				Average	
		point330	330	8,834.3	7,472.4	30.00					
I8 West	90.0	point354	354	12,786.7	1,868.8	20.00				Average	
		point355	355	12,470.9	1,791.7	20.00				Average	
		point356	356	12,235.8	1,758.7	20.00				Average	

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		point357	357	11,839.2	1,685.2	20.00				Average	
		point358	358	11,350.8	1,641.1	20.00				Average	
		point359	359	10,715.4	1,589.7	20.00				Average	
		point360	360	9,870.7	1,600.7	20.00				Average	
		point361	361	9,055.4	1,571.4	20.00				Average	
		point362	362	8,122.6	1,560.3	15.00				Average	
		point363	363	7,582.7	1,534.6	10.00				Average	
		point364	364	7,318.3	1,505.2	10.00				Average	
		point365	365	6,793.1	1,373.0	10.00				Average	
		point548	548	6,389.1	1,193.1	10.00				Average	
		point549	549	5,930.1	906.6	10.00				Average	
		point550	550	5,397.6	521.0	10.00				Average	
		point551	551	4,552.9	-44.6	10.00				Average	
		point552	552	4,071.8	-312.7	10.00					
18 East	90.0	point366	366	12,786.7	1,772.6	20.00				Average	
		point367	367	11,949.4	1,629.4	20.00				Average	
		point368	368	11,163.5	1,567.0	20.00				Average	
		point369	369	9,481.4	1,522.9	20.00				Average	
		point370	370	8,691.8	1,497.2	20.00				Average	
		point371	371	7,905.9	1,486.2	20.00				Average	
		point 372	372	7,700.2	1,486.2	25.00				Average	
		point373	373	7,593.7	1,467.8	25.00				Average	
		point374	374	7,193.4	1,372.3	25.00				Average	
		point375	375	6,730.7	1,203.4	25.00				Average	
		point376	376	6,264.3	950.0	25.00				Average	
		point377	377	5,287.4	303.6	25.00				Average	
		point378	378	4,472.1	-203.2	25.00				Average	
		point547	547	4,244.4	-324.4	25.00					
19 South Rancho Mission Rd (S friars)	30.0	point379	379	9,376.4	3,982.0	0.00				Average	
		point380	380	9,387.4	4,239.1	0.00				Average	
		point381	381	9,468.2	4,345.6	0.00				Average	
		point382	382	9,541.7	4,419.1	0.00				Average	
		point383	383	9,684.9	4,448.4	0.00				Average	
		point384	384	9,897.9	4,496.2	0.00				Average	
		point385	385	10,015.4	4,558.6	0.00				Average	
		point386	386	10,085.2	4,698.2	0.00				Average	
		point387	387	10,096.2	4,815.7	0.00				Average	
		point388	388	10,081.5	4,889.1	0.00				Average	
		point572	572	9,919.9	5,531.8	0.00					

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19 North Mission Road (S of Friars)	30.0	point389	389	9,398.4	3,974.7	0.00				Average
		point390	390	9,416.8	4,231.8	0.00				Average
		point391	391	9,493.9	4,349.3	0.00				Average
		point392	392	9,574.7	4,393.3	0.00				Average
		point393	393	9,780.4	4,433.7	0.00				Average
		point394	394	9,978.7	4,499.8	0.00				Average
		point395	395	10,044.8	4,547.6	0.00				Average
		point396	396	10,107.2	4,694.5	0.00				Average
		point397	397	10,114.6	4,808.3	0.00				Average
		point398	398	10,088.9	4,922.2	0.00				Average
		point399	399	9,956.7	5,546.5	0.00				
West San Diego Mission Rd 18	20.0	point401	401	9,424.1	3,919.6	0.00				Average
		point402	402	10,026.4	3,710.2	0.00				Average
		point403	403	10,360.6	3,603.7	0.00				Average
		point404	404	10,665.5	3,522.9	0.00				Average
		point405	405	10,771.9	3,500.9	0.00				Average
		point406	406	11,209.0	3,453.2	0.00				Average
		point407	407	11,359.6	3,475.2	0.00				Average
		point408	408	11,473.4	3,563.4	0.00				Average
		point409	409	11,627.7	3,721.3	0.00				Average
		point410	410	11,759.9	3,860.8	0.00				Average
		point575	575	11,848.0	3,926.9	0.00				Average
		point576	576	12,127.1	3,971.0	0.00				
East San Diego Mission Rd 18	20.0	point424	424	9,424.1	3,886.5	0.00				Average
		point425	425	10,573.7	3,508.3	0.00				Average
		point426	426	10,889.5	3,449.5	0.00				Average
		point427	427	11,128.2	3,431.1	0.00				Average
		point428	428	11,304.5	3,420.1	0.00				Average
		point429	429	11,407.3	3,464.2	0.00				Average
		point430	430	11,550.5	3,574.4	0.00				Average
		point431	431	11,675.4	3,728.6	0.00				Average
		point432	432	11,800.3	3,849.8	0.00				Average
		point433	433	11,881.1	3,915.9	0.00				Average
		point434	434	12,116.1	3,934.3	0.00				
South Fairmount Ave (N of Int 25)	25.0	point436	436	12,145.5	3,989.4	0.00				Average
		point437	437	12,156.5	5,160.9	0.00				
North Fairmount Ave (N of Int 25)	25.0	point438	438	12,163.8	4,015.1	0.00				Average
		point439	439	12,178.5	5,182.9	0.00				
23 South Fairmont Ave (S of Int 25)	25.0	point440	440	12,147.7	3,926.2	0.00				Average

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		point441	441	12,144.0	2,644.5	0.00				Average
		point442	442	12,151.4	2,596.7	0.00				Average
		point443	443	12,202.8	2,519.6	0.00				
23 North Fairmount Ave (S of Int 25)	25.0	point444	444	12,169.7	3,915.2	0.00				Average
		point445	445	12,169.7	2,732.6	0.00				Average
		point446	446	12,177.1	2,644.5	0.00				Average
		point574	574	12,191.8	2,574.7	0.00				
South Mission Gorge Rd	30.0	point462	462	12,136.7	2,064.2	0.00				Average
		point463	463	12,133.0	2,313.9	0.00				Average
		point464	464	12,210.1	2,527.0	0.00				Average
		point465	465	12,353.3	2,710.6	0.00				Average
		point466	466	12,500.3	2,824.4	0.00				Average
		point467	467	12,794.1	2,997.0	0.00				
North Mission Gorge Rd	30.0	point469	469	12,199.1	2,115.6	0.00				Average
		point470	470	12,195.4	2,317.6	0.00				Average
		point471	471	12,257.9	2,504.9	0.00				Average
		point472	472	12,324.0	2,626.1	0.00				Average
		point473	473	12,408.4	2,725.3	0.00				Average
		point474	474	12,533.3	2,809.7	0.00				Average
		point475	475	12,790.4	2,953.0	0.00				
West Camino Del Rio (E of Int 27)	30.0	point528	528	9,396.9	2,075.2	0.00				Average
		point527	527	9,745.9	2,027.5	0.00				Average
		point526	526	10,065.4	1,972.4	0.00				Average
		point105	105	10,252.7	1,910.0	0.00				Average
		point447	447	10,539.1	1,865.9	0.00				Average
		point448	448	10,913.7	1,869.6	0.00				Average
		point449	449	11,299.3	1,843.9	0.00				Average
		point450	450	11,508.7	1,843.9	0.00				Average
		point451	451	11,651.9	1,854.9	0.00				Average
		point452	452	11,791.5	1,921.0	0.00				Average
		point453	453	11,949.4	2,027.5	0.00				Average
		point454	454	12,096.3	2,137.7	0.00				
East Camino Del Rio (E of Int 27)	30.0	point461	461	9,419.0	2,023.8	0.00				Average
		point460	460	9,786.3	1,972.4	0.00				Average
		point459	459	10,047.0	1,924.6	0.00				Average
		point458	458	10,300.4	1,858.6	0.00				Average
		point457	457	10,564.8	1,851.2	0.00				Average
		point456	456	11,170.8	1,832.8	0.00				Average
		point455	455	11,490.3	1,818.1	0.00				Average

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		point190	190	11,707.0	1,829.2	0.00				Average
		point192	192	12,063.2	2,086.3	0.00				
South Stadium Way	45.0	point478	478	4,605.4	4,060.7	0.00				Average
		point479	479	4,733.9	4,001.9	0.00				Average
		point480	480	4,807.3	3,935.8	0.00				Average
		point481	481	4,858.8	3,814.6	0.00				Average
		point482	482	4,910.2	3,311.5	0.00				Average
		point483	483	4,965.3	2,617.4	0.00				Average
		point569	569	5,013.0	2,117.9	0.00				
North Stadium Way	45.0	point484	484	4,954.3	4,238.5	0.00				Average
		point485	485	4,891.8	4,161.3	0.00				Average
		point486	486	4,862.4	4,109.9	0.00				Average
		point487	487	4,888.2	3,849.1	0.00				Average
		point488	488	4,891.8	3,687.6	0.00				Average
		point570	570	5,042.4	2,137.7	0.00				
West Stadium Way (W of Int 26)	20.0	point489	489	9,334.5	2,728.9	0.00				Average
		point490	490	9,239.0	2,688.5	0.00				Average
		point491	491	9,169.3	2,648.1	0.00				Average
		point492	492	8,912.2	2,640.8	0.00				Average
		point493	493	8,824.0	2,662.8	0.00				Average
		point494	494	8,735.9	2,681.2	0.00				Average
		point495	495	8,633.1	2,688.5	0.00				Average
		point496	496	8,570.6	2,677.5	0.00				Average
		point497	497	8,276.8	2,706.9	0.00				Average
		point498	498	8,129.9	2,747.3	0.00				
East Stadium Way (W of Int 26)	20.0	point499	499	9,334.5	2,703.2	0.00				Average
		point500	500	9,224.3	2,655.5	0.00				Average
		point501	501	9,169.3	2,629.8	0.00				Average
		point502	502	8,912.2	2,629.8	0.00				Average
		point503	503	8,842.4	2,637.1	0.00				Average
		point504	504	8,695.5	2,666.5	0.00				Average
		point505	505	8,592.7	2,662.8	0.00				Average
		point506	506	8,387.0	2,651.8	0.00				Average
		point507	507	8,273.2	2,666.5	0.00				Average
		point573	573	8,152.0	2,710.6	0.00				
5 West Friars- (W of Int 10)	40.0	point509	509	3,873.5	3,585.6	20.00				Average
		point32	32	2,797.5	2,575.7	20.00				
5 East Friars (W of Int 10)	40.0	point510	510	3,928.6	3,545.2	20.00				Average
		point63	63	2,834.2	2,524.2	20.00				

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8 West Friars (Mission to 15)	40.0	point523	523	6,351.7	4,630.6	0.00				Average	
		point40	40	7,189.0	4,906.0	10.00				Average	
		point41	41	7,850.1	5,078.6	20.00				Average	Y
		point600	600	8,165.9	5,163.1	20.00					
8 East Friars (Mission to 15)	40.0	point524	524	6,353.9	4,582.8	0.00				Average	
		point521	521	6,882.7	4,759.1	5.00				Average	
		point522	522	7,169.2	4,858.3	10.00				Average	
		point71	71	7,606.2	4,972.1	20.00				Average	Y
		point599	599	8,228.7	5,142.9	15.00					
West Camino Del Rio (W of Int 27)	20.0	point529	529	2,684.6	-317.1	0.00				Average	
		point106	106	2,901.3	-214.2	0.00				Average	
		point107	107	3,235.5	-177.5	0.00				Average	
		point108	108	3,525.7	-111.4	0.00				Average	
		point109	109	3,698.3	-1.2	0.00				Average	
		point110	110	3,944.3	233.8	0.00				Average	
		point111	111	4,164.7	457.8	0.00				Average	
		point112	112	4,370.3	656.2	0.00				Average	
		point113	113	4,587.0	839.8	0.00				Average	
		point114	114	4,704.5	913.2	0.00				Average	
		point115	115	4,829.4	920.6	0.00				Average	
		point116	116	4,902.9	869.2	0.00				Average	
		point117	117	5,009.4	714.9	0.00				Average	
		point118	118	5,090.2	615.7	0.00				Average	
		point119	119	5,204.0	586.4	0.00				Average	
		point120	120	5,354.6	652.5	0.00				Average	
		point121	121	5,696.1	909.5	0.00				Average	
		point122	122	6,151.5	1,232.7	0.00				Average	
		point123	123	6,566.5	1,420.0	0.00				Average	
		point124	124	6,871.3	1,522.9	0.00				Average	
		point125	125	7,631.6	1,699.1	0.00				Average	
		point126	126	7,778.4	1,739.6	0.00				Average	
		point127	127	7,892.3	1,827.7	0.00				Average	
		point128	128	8,156.7	2,154.6	0.00				Average	
		point129	129	8,300.0	2,253.7	0.00				Average	
		point130	130	8,615.8	2,319.8	0.00				Average	
		point131	131	8,876.5	2,301.4	0.00				Average	
		point132	132	9,185.0	2,117.8	0.00				Average	
		point133	133	9,311.7	2,070.1	0.00					
East Camino Del Rio (W of Int 27)	20.0	point530	530	2,726.1	-320.7	0.00				Average	

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		point193	193	2,873.0	-265.6	0.00				Average	
		point194	194	3,030.9	-236.3	0.00				Average	
		point195	195	3,229.3	-203.2	0.00				Average	
		point196	196	3,493.7	-166.5	0.00				Average	
		point197	197	3,651.6	-63.6	0.00				Average	
		point198	198	4,569.8	799.4	0.00				Average	
		point199	199	4,705.6	880.2	0.00				Average	
		point200	200	4,782.7	898.6	0.00				Average	
		point201	201	4,841.5	891.2	0.00				Average	
		point202	202	4,911.3	828.8	0.00				Average	
		point203	203	5,010.5	678.2	0.00				Average	
		point204	204	5,069.2	586.4	0.00				Average	
		point205	205	5,227.1	560.7	0.00				Average	
		point206	206	5,465.8	703.9	0.00				Average	
		point207	207	5,814.7	964.7	0.00				Average	
		point208	208	6,152.6	1,207.1	0.00				Average	
		point209	209	6,420.7	1,342.9	0.00				Average	
		point210	210	6,619.0	1,431.1	0.00				Average	
		point211	211	6,931.2	1,522.9	0.00				Average	
		point212	212	7,379.2	1,625.7	0.00				Average	
		point213	213	7,742.8	1,706.5	0.00				Average	
		point214	214	7,864.0	1,761.6	0.00				Average	
		point215	215	8,033.0	1,967.3	0.00				Average	
		point216	216	8,201.9	2,180.2	0.00				Average	
		point217	217	8,315.7	2,239.0	0.00				Average	
		point218	218	8,697.7	2,301.4	0.00				Average	
		point219	219	8,851.9	2,275.8	0.00				Average	
		point220	220	9,160.4	2,088.5	0.00				Average	
		point221	221	9,296.3	2,040.7	0.00					
West Twain Ave	20.0	point533	533	12,169.7	3,967.3	0.00				Average	
		point411	411	12,779.4	3,956.3	0.00					
East Twain Ave	20.0	point534	534	12,180.7	3,941.6	0.00				Average	
		point532	532	12,783.0	3,923.3	0.00					
East Friars (W of Int 9)	40.0	point538	538	6,270.2	4,544.9	20.00				Average	
		point539	539	6,057.2	4,464.1	20.00				Average	
		point540	540	5,925.0	4,427.4	20.00				Average	
		point541	541	5,737.7	4,409.0	20.00				Average	
		point542	542	5,388.8	4,383.3	20.00				Average	
		point543	543	5,230.9	4,357.6	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point563	563	5,032.6	4,295.1	20.00				Average	
		point564	564	4,830.6	4,203.3	20.00				Average	
		point565	565	4,595.5	4,067.5	20.00				Average	
		point566	566	4,349.5	3,905.8	20.00				Average	
		point567	567	4,220.9	3,803.0	20.00				Average	
		point568	568	3,985.9	3,590.0	20.00					
4 west Friars east of 805	40.0	point579	579	2,736.1	2,516.1	0.00				Average	
		point580	580	2,350.4	2,126.9	0.00				Average	
		point581	581	2,130.1	1,935.9	0.00				Average	
		point582	582	1,924.4	1,767.0	0.00				Average	
		point583	583	1,645.3	1,524.6	0.00					
4 East Friars east of 805	40.0	point584	584	2,776.4	2,475.8	0.00				Average	
		point585	585	2,508.3	2,189.3	0.00				Average	
		point586	586	2,321.1	2,035.0	0.00				Average	
		point587	587	2,152.1	1,866.1	0.00				Average	
		point588	588	1,961.2	1,715.6	0.00				Average	
		point589	589	1,685.7	1,491.5	0.00					
North River Run Dr	12.0	point590	590	2,471.7	1,092.6	0.00				Average	
		point591	591	2,273.7	1,256.6	0.00				Average	
		point592	592	2,157.8	1,399.4	0.00				Average	
		point593	593	1,962.7	1,696.4	0.00					
South River Run Dr	12.0	point594	594	2,478.7	1,132.2	0.00				Average	
		point595	595	2,319.0	1,259.4	0.00				Average	
		point596	596	2,234.1	1,354.2	0.00				Average	
		point597	597	2,101.2	1,528.1	0.00				Average	
		point598	598	1,995.2	1,707.7	0.00					
9 West Friars (15 to Rancho Mission)	40.0	point601	601	8,165.9	5,163.1	20.00				Average	Y
		point42	42	8,481.7	5,247.6	20.00				Average	
		point43	43	9,190.6	5,438.6	10.00				Average	
		point44	44	9,583.5	5,541.4	5.00				Average	
		point45	45	9,910.4	5,629.5	0.00				Average	
		point46	46	10,233.5	5,721.3	0.00				Average	
		point553	553	10,431.9	5,787.4	0.00				Average	Y
		point554	554	11,004.8	5,985.8	0.00					
9 East Friars (15 to Rancho Mission)	40.0	point602	602	8,228.7	5,142.9	15.00				Average	Y
		point72	72	8,851.2	5,313.7	10.00				Average	
		point73	73	9,578.4	5,490.0	10.00				Average	
		point74	74	10,155.0	5,636.9	10.00				Average	
		point75	75	10,738.9	5,842.5	5.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point76	76	11,010.7	5,930.7	0.00					
I-15 North	90.0	point603	603	8,885.7	-269.3	60.00				Average	
		point604	604	9,006.9	222.8	50.00				Average	
		point605	605	9,010.6	527.6	40.00				Average	
		point606	606	8,984.9	902.2	30.00				Average	
		point607	607	8,915.1	1,225.4	30.00				Average	Y
		point608	608	8,610.3	2,253.7	20.00				Average	Y
		point609	609	8,503.8	2,617.3	20.00				Average	Y
		point610	610	8,305.4	3,348.1	10.00				Average	
		point611	611	8,235.7	3,649.3	0.00				Average	
		point612	612	8,187.9	3,895.3	0.00				Average	
		point613	613	8,169.6	4,185.5	0.00				Average	
		point614	614	8,180.6	4,505.0	0.00				Average	
		point615	615	8,221.0	4,776.7	10.00				Average	
		point616	616	8,265.1	4,975.1	10.00				Average	
		point617	617	8,613.9	6,051.1	10.00				Average	
		point618	618	8,819.6	6,701.2	20.00				Average	
		point619	619	8,896.8	7,046.4	30.00				Average	Y
		point620	620	8,922.4	7,288.8	40.00				Average	Y
		point621	621	8,922.4	7,476.1	50.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

Dudek													
CB													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	SDSU West Campus												
RUN:	Existing + Project												
Roadway	Points												
Name	Name	No.	Segment										
			Autos	MTrucks		HTrucks		Buses		Motorcycles			
			V	S	V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
South Mission Village Dr 26	point9	9	947	45	20	45	10	45	0	0	0	0	
	point8	8	947	45	20	45	10	45	0	0	0	0	
	point7	7	947	45	20	45	10	45	0	0	0	0	
	point6	6	947	45	20	45	10	45	0	0	0	0	
	point5	5	947	45	20	45	10	45	0	0	0	0	
	point4	4	947	45	20	45	10	45	0	0	0	0	
	point3	3	947	45	20	45	10	45	0	0	0	0	
	point2	2	947	45	20	45	10	45	0	0	0	0	
	point1	1											
North Mission Village Dr	point15	15	691	45	14	45	7	45	0	0	0	0	
	point16	16	691	45	14	45	7	45	0	0	0	0	
	point17	17	691	45	14	45	7	45	0	0	0	0	
	point18	18	691	45	14	45	7	45	0	0	0	0	
	point19	19	691	45	14	45	7	45	0	0	0	0	
	point535	535	691	45	14	45	7	45	0	0	0	0	
	point20	20	691	45	14	45	7	45	0	0	0	0	
	point21	21	691	45	14	45	7	45	0	0	0	0	
	point22	22	691	45	14	45	7	45	0	0	0	0	
	point23	23	691	45	14	45	7	45	0	0	0	0	
	point537	537											
westFriars (W of Int 9)	point58	58	2892	45	60	45	30	45	0	0	0	0	
	point59	59	2892	45	60	45	30	45	0	0	0	0	
	point60	60	2892	45	60	45	30	45	0	0	0	0	

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point61	61	2892	45	60	45	30	45	0	0	0	0
	point62	62	2892	45	60	45	30	45	0	0	0	0
	point555	555	2892	45	60	45	30	45	0	0	0	0
	point556	556	2892	45	60	45	30	45	0	0	0	0
	point557	557	2892	45	60	45	30	45	0	0	0	0
	point558	558	2892	45	60	45	30	45	0	0	0	0
	point559	559	2892	45	60	45	30	45	0	0	0	0
	point560	560	2892	45	60	45	30	45	0	0	0	0
	point561	561	2892	45	60	45	30	45	0	0	0	0
	point562	562										
17 West San Diego Mission Rd	point77	77	727	45	16	45	8	45	0	0	0	0
	point78	78	727	45	16	45	8	45	0	0	0	0
	point79	79	727	45	16	45	8	45	0	0	0	0
	point80	80	727	45	16	45	8	45	0	0	0	0
	point81	81	727	45	16	45	8	45	0	0	0	0
	point82	82	727	45	16	45	8	45	0	0	0	0
	point83	83	727	45	16	45	8	45	0	0	0	0
	point84	84	727	45	16	45	8	45	0	0	0	0
	point85	85	727	45	16	45	8	45	0	0	0	0
	point86	86	727	45	16	45	8	45	0	0	0	0
	point87	87										
17 East San Diego Mission Rd	point88	88	727	45	16	45	8	45	0	0	0	0
	point89	89	727	45	16	45	8	45	0	0	0	0
	point90	90	727	45	16	45	8	45	0	0	0	0
	point91	91	727	45	16	45	8	45	0	0	0	0
	point92	92	727	45	16	45	8	45	0	0	0	0
	point93	93	727	45	16	45	8	45	0	0	0	0
	point94	94	727	45	16	45	8	45	0	0	0	0
	point95	95	727	45	16	45	8	45	0	0	0	0
	point96	96										
22 North Ward Rd	point97	97	802	45	17	45	8	45	0	0	0	0
	point98	98										
22 South Ward Row	point102	102	802	45	17	45	8	45	0	0	0	0
	point103	103										
16 South Fenton Pkwy (S of Int 9)	point242	242	320	30	7	30	3	30	0	0	0	0
	point243	243	320	30	7	30	3	30	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point244	244	320	30	7	30	3	30	0	0	0	0
	point245	245	320	30	7	30	3	30	0	0	0	0
	point246	246	320	30	7	30	3	30	0	0	0	0
	point247	247	320	30	7	30	3	30	0	0	0	0
	point248	248	320	30	7	30	3	30	0	0	0	0
	point249	249	320	30	7	30	3	30	0	0	0	0
	point250	250	320	30	7	30	3	30	0	0	0	0
	point251	251	320	30	7	30	3	30	0	0	0	0
	point252	252	320	30	7	30	3	30	0	0	0	0
	point253	253										
16 North Fenton Pkwy (S of Int 9)	point255	255	320	30	7	30	3	30	0	0	0	0
	point256	256	320	30	7	30	3	30	0	0	0	0
	point257	257	320	30	7	30	3	30	0	0	0	0
	point258	258	320	30	7	30	3	30	0	0	0	0
	point259	259	320	30	7	30	3	30	0	0	0	0
	point260	260	320	30	7	30	3	30	0	0	0	0
	point261	261										
South Fenton Pkwy (N of Int 9)	point268	268	0	0	0	0	0	0	0	0	0	0
	point269	269	0	0	0	0	0	0	0	0	0	0
	point270	270	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point274	274										
North Fenton Pkwy (N of Int 9)	point275	275	0	0	0	0	0	0	0	0	0	0
	point276	276	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point280	280	0	0	0	0	0	0	0	0	0	0
	point281	281	0	0	0	0	0	0	0	0	0	0
	point282	282	0	0	0	0	0	0	0	0	0	0
	point571	571										
North Northside Dr	point283	283	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point286	286	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point289	289										
South Northside Dr	point291	291	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point293	293	0	0	0	0	0	0	0	0	0	0
	point294	294	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point297	297										
15 West Rio San Diego Dr	point299	299	499	45	10	45	5	45	0	0	0	0
	point300	300	499	45	10	45	5	45	0	0	0	0
	point301	301	499	45	10	45	5	45	0	0	0	0
	point302	302	499	45	10	45	5	45	0	0	0	0
	point303	303	499	45	10	45	5	45	0	0	0	0
	point304	304	499	45	10	45	5	45	0	0	0	0
	point305	305	499	45	10	45	5	45	0	0	0	0
	point306	306	499	45	10	45	5	45	0	0	0	0
	point307	307	499	45	10	45	5	45	0	0	0	0
	point577	577										
15 East Rio San Diego Dr	point308	308	499	45	10	45	5	45	0	0	0	0
	point309	309	499	45	10	45	5	45	0	0	0	0
	point310	310	499	45	10	45	5	45	0	0	0	0
	point311	311	499	45	10	45	5	45	0	0	0	0
	point312	312	499	45	10	45	5	45	0	0	0	0
	point313	313	499	45	10	45	5	45	0	0	0	0
	point314	314	499	45	10	45	5	45	0	0	0	0
	point315	315	499	45	10	45	5	45	0	0	0	0
	point578	578										
I15 South	point316	316	9108	65	188	65	94	65	0	0	0	0
	point318	318	9108	65	188	65	94	65	0	0	0	0
	point319	319	9108	65	188	65	94	65	0	0	0	0
	point320	320	9108	65	188	65	94	65	0	0	0	0
	point321	321	9108	65	188	65	94	65	0	0	0	0
	point 322	322	9108	65	188	65	94	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point323	323	9108	65	188	65	94	65	0	0	0	0
	point324	324	9108	65	188	65	94	65	0	0	0	0
	point325	325	9108	65	188	65	94	65	0	0	0	0
	point326	326	9108	65	188	65	94	65	0	0	0	0
	point327	327	9108	65	188	65	94	65	0	0	0	0
	point328	328	9108	65	188	65	94	65	0	0	0	0
	point329	329	9108	65	188	65	94	65	0	0	0	0
	point330	330										
I8 West	point354	354	10152	65	209	65	105	65	0	0	0	0
	point355	355	10152	65	209	65	105	65	0	0	0	0
	point356	356	10152	65	209	65	105	65	0	0	0	0
	point357	357	10152	65	209	65	105	65	0	0	0	0
	point358	358	10152	65	209	65	105	65	0	0	0	0
	point359	359	10152	65	209	65	105	65	0	0	0	0
	point360	360	10152	65	209	65	105	65	0	0	0	0
	point361	361	10152	65	209	65	105	65	0	0	0	0
	point362	362	10152	65	209	65	105	65	0	0	0	0
	point363	363	10152	65	209	65	105	65	0	0	0	0
	point364	364	10152	65	209	65	105	65	0	0	0	0
	point365	365	10152	65	209	65	105	65	0	0	0	0
	point548	548	10152	65	209	65	105	65	0	0	0	0
	point549	549	10152	65	209	65	105	65	0	0	0	0
	point550	550	10152	65	209	65	105	65	0	0	0	0
	point551	551	10152	65	209	65	105	65	0	0	0	0
	point552	552										
I8 East	point366	366	10006	65	206	65	103	65	0	0	0	0
	point367	367	10006	65	206	65	103	65	0	0	0	0
	point368	368	10006	65	206	65	103	65	0	0	0	0
	point369	369	10006	65	206	65	103	65	0	0	0	0
	point370	370	10006	65	206	65	103	65	0	0	0	0
	point371	371	10006	65	206	65	103	65	0	0	0	0
	point 372	372	10006	65	206	65	103	65	0	0	0	0
	point373	373	10006	65	206	65	103	65	0	0	0	0
	point374	374	10006	65	206	65	103	65	0	0	0	0
	point375	375	10006	65	206	65	103	65	0	0	0	0
	point376	376	10006	65	206	65	103	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point377	377	10006	65	206	65	103	65	0	0	0	0
	point378	378	10006	65	206	65	103	65	0	0	0	0
	point547	547										
19 South Rancho Mission Rd (S friars)	point379	379	971	45	20	45	10	45	0	0	0	0
	point380	380	971	45	20	45	10	45	0	0	0	0
	point381	381	971	45	20	45	10	45	0	0	0	0
	point382	382	971	45	20	45	10	45	0	0	0	0
	point383	383	971	45	20	45	10	45	0	0	0	0
	point384	384	971	45	20	45	10	45	0	0	0	0
	point385	385	971	45	20	45	10	45	0	0	0	0
	point386	386	971	45	20	45	10	45	0	0	0	0
	point387	387	971	45	20	45	10	45	0	0	0	0
	point388	388	971	45	20	45	10	45	0	0	0	0
	point572	572										
19 North Mission Road (S of Friars)	point389	389	971	45	20	45	10	45	0	0	0	0
	point390	390	971	45	20	45	10	45	0	0	0	0
	point391	391	971	45	20	45	10	45	0	0	0	0
	point392	392	971	45	20	45	10	45	0	0	0	0
	point393	393	971	45	20	45	10	45	0	0	0	0
	point394	394	971	45	20	45	10	45	0	0	0	0
	point395	395	971	45	20	45	10	45	0	0	0	0
	point396	396	971	45	20	45	10	45	0	0	0	0
	point397	397	971	45	20	45	10	45	0	0	0	0
	point398	398	971	45	20	45	10	45	0	0	0	0
	point399	399										
West San Diego Mission Rd 18	point401	401	708	45	15	45	7	45	0	0	0	0
	point402	402	708	45	15	45	7	45	0	0	0	0
	point403	403	708	45	15	45	7	45	0	0	0	0
	point404	404	708	45	15	45	7	45	0	0	0	0
	point405	405	708	45	15	45	7	45	0	0	0	0
	point406	406	708	45	15	45	7	45	0	0	0	0
	point407	407	708	45	15	45	7	45	0	0	0	0
	point408	408	708	45	15	45	7	45	0	0	0	0
	point409	409	708	45	15	45	7	45	0	0	0	0
	point410	410	708	45	15	45	7	45	0	0	0	0
	point575	575	708	45	15	45	7	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point576	576										
East San Diego Mission Rd 18	point424	424	708	45	15	45	7	45	0	0	0	0
	point425	425	708	45	15	45	7	45	0	0	0	0
	point426	426	708	45	15	45	7	45	0	0	0	0
	point427	427	708	45	15	45	7	45	0	0	0	0
	point428	428	708	45	15	45	7	45	0	0	0	0
	point429	429	708	45	15	45	7	45	0	0	0	0
	point430	430	708	45	15	45	7	45	0	0	0	0
	point431	431	708	45	15	45	7	45	0	0	0	0
	point432	432	708	45	15	45	7	45	0	0	0	0
	point433	433	708	45	15	45	7	45	0	0	0	0
	point434	434										
South Fairmount Ave (N of Int 25)	point436	436	0	0	0	0	0	0	0	0	0	0
	point437	437										
North Fairmount Ave (N of Int 25)	point438	438	0	0	0	0	0	0	0	0	0	0
	point439	439										
23 South Fairmount Ave (S of Int 25)	point440	440	552	45	11	45	6	45	0	0	0	0
	point441	441	552	45	11	45	6	45	0	0	0	0
	point442	442	552	45	11	45	6	45	0	0	0	0
	point443	443										
23 North Fairmount Ave (S of Int 25)	point444	444	552	45	11	45	6	45	0	0	0	0
	point445	445	552	45	11	45	6	45	0	0	0	0
	point446	446	552	45	11	45	6	45	0	0	0	0
	point574	574										
South Mission Gorge Rd	point462	462	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point466	466	0	0	0	0	0	0	0	0	0	0
	point467	467										
North Mission Gorge Rd	point469	469	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point472	472	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point475	475										
West Camino Del Rio (E of Int 27)	point528	528	0	0	0	0	0	0	0	0	0	0
	point527	527	0	0	0	0	0	0	0	0	0	0
	point526	526	0	0	0	0	0	0	0	0	0	0
	point105	105	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454										
East Camino Del Rio (E of Int 27)	point461	461	0	0	0	0	0	0	0	0	0	0
	point460	460	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point455	455	0	0	0	0	0	0	0	0	0	0
	point190	190	0	0	0	0	0	0	0	0	0	0
	point192	192										
South Stadium Way	point478	478	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point569	569										
North Stadium Way	point484	484	0	0	0	0	0	0	0	0	0	0
	point485	485	0	0	0	0	0	0	0	0	0	0
	point486	486	0	0	0	0	0	0	0	0	0	0
	point487	487	0	0	0	0	0	0	0	0	0	0
	point488	488	0	0	0	0	0	0	0	0	0	0
	point570	570										
West Stadium Way (W of Int 26)	point489	489	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point490	490	0	0	0	0	0	0	0	0	0	0
	point491	491	0	0	0	0	0	0	0	0	0	0
	point492	492	0	0	0	0	0	0	0	0	0	0
	point493	493	0	0	0	0	0	0	0	0	0	0
	point494	494	0	0	0	0	0	0	0	0	0	0
	point495	495	0	0	0	0	0	0	0	0	0	0
	point496	496	0	0	0	0	0	0	0	0	0	0
	point497	497	0	0	0	0	0	0	0	0	0	0
	point498	498										
East Stadium Way (W of Int 26)	point499	499	0	0	0	0	0	0	0	0	0	0
	point500	500	0	0	0	0	0	0	0	0	0	0
	point501	501	0	0	0	0	0	0	0	0	0	0
	point502	502	0	0	0	0	0	0	0	0	0	0
	point503	503	0	0	0	0	0	0	0	0	0	0
	point504	504	0	0	0	0	0	0	0	0	0	0
	point505	505	0	0	0	0	0	0	0	0	0	0
	point506	506	0	0	0	0	0	0	0	0	0	0
	point507	507	0	0	0	0	0	0	0	0	0	0
	point573	573										
5 West Friars- (W of Int 10)	point509	509	2147	45	44	45	22	45	0	0	0	0
	point32	32										
5 East Friars (W of Int 10)	point510	510	2147	45	44	45	22	45	0	0	0	0
	point63	63										
8 West Friars (Mission to 15)	point523	523	3243	45	67	45	33	45	0	0	0	0
	point40	40	3243	45	67	45	33	45	0	0	0	0
	point41	41	3243	45	67	45	33	45	0	0	0	0
	point600	600										
8 East Friars (Mission to 15)	point524	524	3243	45	67	45	33	45	0	0	0	0
	point521	521	3243	45	67	45	33	45	0	0	0	0
	point522	522	3243	45	67	45	33	45	0	0	0	0
	point71	71	3243	45	67	45	33	45	0	0	0	0
	point599	599										
West Camino Del Rio (W of Int 27)	point529	529	0	0	0	0	0	0	0	0	0	0
	point106	106	0	0	0	0	0	0	0	0	0	0
	point107	107	0	0	0	0	0	0	0	0	0	0
	point108	108	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point109	109	0	0	0	0	0	0	0	0	0	0
	point110	110	0	0	0	0	0	0	0	0	0	0
	point111	111	0	0	0	0	0	0	0	0	0	0
	point112	112	0	0	0	0	0	0	0	0	0	0
	point113	113	0	0	0	0	0	0	0	0	0	0
	point114	114	0	0	0	0	0	0	0	0	0	0
	point115	115	0	0	0	0	0	0	0	0	0	0
	point116	116	0	0	0	0	0	0	0	0	0	0
	point117	117	0	0	0	0	0	0	0	0	0	0
	point118	118	0	0	0	0	0	0	0	0	0	0
	point119	119	0	0	0	0	0	0	0	0	0	0
	point120	120	0	0	0	0	0	0	0	0	0	0
	point121	121	0	0	0	0	0	0	0	0	0	0
	point122	122	0	0	0	0	0	0	0	0	0	0
	point123	123	0	0	0	0	0	0	0	0	0	0
	point124	124	0	0	0	0	0	0	0	0	0	0
	point125	125	0	0	0	0	0	0	0	0	0	0
	point126	126	0	0	0	0	0	0	0	0	0	0
	point127	127	0	0	0	0	0	0	0	0	0	0
	point128	128	0	0	0	0	0	0	0	0	0	0
	point129	129	0	0	0	0	0	0	0	0	0	0
	point130	130	0	0	0	0	0	0	0	0	0	0
	point131	131	0	0	0	0	0	0	0	0	0	0
	point132	132	0	0	0	0	0	0	0	0	0	0
	point133	133										
East Camino Del Rio (W of Int 27)	point530	530	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point211	211	0	0	0	0	0	0	0	0	0	0
	point212	212	0	0	0	0	0	0	0	0	0	0
	point213	213	0	0	0	0	0	0	0	0	0	0
	point214	214	0	0	0	0	0	0	0	0	0	0
	point215	215	0	0	0	0	0	0	0	0	0	0
	point216	216	0	0	0	0	0	0	0	0	0	0
	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221										
West Twain Ave	point533	533	0	0	0	0	0	0	0	0	0	0
	point411	411										
East Twain Ave	point534	534	0	0	0	0	0	0	0	0	0	0
	point532	532										
East Friars (W of Int 9)	point538	538	2892	45	60	45	30	45	0	0	0	0
	point539	539	2892	45	60	45	30	45	0	0	0	0
	point540	540	2892	45	60	45	30	45	0	0	0	0
	point541	541	2892	45	60	45	30	45	0	0	0	0
	point542	542	2892	45	60	45	30	45	0	0	0	0
	point543	543	2892	45	60	45	30	45	0	0	0	0
	point563	563	2892	45	60	45	30	45	0	0	0	0
	point564	564	2892	45	60	45	30	45	0	0	0	0
	point565	565	2892	45	60	45	30	45	0	0	0	0
	point566	566	2892	45	60	45	30	45	0	0	0	0
	point567	567	2892	45	60	45	30	45	0	0	0	0
	point568	568										
4 west Friars east of 805	point579	579	2182	45	45	45	22	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point580	580	2182	45	45	45	22	45	0	0	0	0
	point581	581	2182	45	45	45	22	45	0	0	0	0
	point582	582	2182	45	45	45	22	45	0	0	0	0
	point583	583										
4 East Friars east of 805	point584	584	2182	45	45	45	22	45	0	0	0	0
	point585	585	2182	45	45	45	22	45	0	0	0	0
	point586	586	2182	45	45	45	22	45	0	0	0	0
	point587	587	2182	45	45	45	22	45	0	0	0	0
	point588	588	2182	45	45	45	22	45	0	0	0	0
	point589	589										
North River Run Dr	point590	590	0	0	0	0	0	0	0	0	0	0
	point591	591	0	0	0	0	0	0	0	0	0	0
	point592	592	0	0	0	0	0	0	0	0	0	0
	point593	593										
South River Run Dr	point594	594	0	0	0	0	0	0	0	0	0	0
	point595	595	0	0	0	0	0	0	0	0	0	0
	point596	596	0	0	0	0	0	0	0	0	0	0
	point597	597	0	0	0	0	0	0	0	0	0	0
	point598	598										
9 West Friars (15 to Rancho Mission)	point601	601	3243	45	67	45	33	45	0	0	0	0
	point42	42	3243	45	67	45	33	45	0	0	0	0
	point43	43	3243	45	67	45	33	45	0	0	0	0
	point44	44	3243	45	67	45	33	45	0	0	0	0
	point45	45	3243	45	67	45	33	45	0	0	0	0
	point46	46	3243	45	67	45	33	45	0	0	0	0
	point553	553	3243	45	67	45	33	45	0	0	0	0
	point554	554										
9 East Friars (15 to Rancho Mission)	point602	602	3243	45	67	45	33	45	0	0	0	0
	point72	72	3243	45	67	45	33	45	0	0	0	0
	point73	73	3243	45	67	45	33	45	0	0	0	0
	point74	74	3243	45	67	45	33	45	0	0	0	0
	point75	75	3243	45	67	45	33	45	0	0	0	0
	point76	76										
I-15 North	point603	603	7781	65	160	65	80	65	0	0	0	0
	point604	604	7781	65	160	65	80	65	0	0	0	0
	point605	605	7781	65	160	65	80	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**SDSU West Campus**

	point606	606	7781	65	160	65	80	65	0	0	0	0
	point607	607	7781	65	160	65	80	65	0	0	0	0
	point608	608	7781	65	160	65	80	65	0	0	0	0
	point609	609	7781	65	160	65	80	65	0	0	0	0
	point610	610	7781	65	160	65	80	65	0	0	0	0
	point611	611	7781	65	160	65	80	65	0	0	0	0
	point612	612	7781	65	160	65	80	65	0	0	0	0
	point613	613	7781	65	160	65	80	65	0	0	0	0
	point614	614	7781	65	160	65	80	65	0	0	0	0
	point615	615	7781	65	160	65	80	65	0	0	0	0
	point616	616	7781	65	160	65	80	65	0	0	0	0
	point617	617	7781	65	160	65	80	65	0	0	0	0
	point618	618	7781	65	160	65	80	65	0	0	0	0
	point619	619	7781	65	160	65	80	65	0	0	0	0
	point620	620	7781	65	160	65	80	65	0	0	0	0
	point621	621										

INPUT: RECEIVERS

SDSU West Campus

							22 February 2019					
							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:		SDSU West Campus										
RUN:		Existing + Project										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST9	1	1	5,119.4	6,645.4	250.00	4.92	52.50	66	10.0	8.0	Y	
ST10	2	1	6,573.6	5,525.0	200.00	4.92	52.80	66	10.0	8.0	Y	
ST1	3	1	8,338.7	3,886.4	0.00	4.92	77.40	66	10.0	8.0	Y	
ST2a	4	1	8,632.8	2,814.1	0.00	4.92	72.20	66	10.0	8.0	Y	
ST8	5	1	9,471.6	2,808.0	0.00	4.92	67.00	66	10.0	8.0	Y	
ST3	6	1	4,776.5	4,099.3	0.00	4.92	64.90	66	10.0	8.0	Y	
ST5	8	1	4,729.6	3,692.2	0.00	4.92	53.70	66	10.0	8.0	Y	
ST4	9	1	8,367.3	347.6	150.00	4.92	69.10	66	10.0	8.0	Y	
ST7	10	1	4,336.6	1,707.8	0.00	4.92	59.00	66	10.0	8.0	Y	
ST6	11	1	5,594.8	1,170.3	0.00	4.92	65.10	66	10.0	8.0	Y	

INPUT: BUILDING ROWS

SDSU West Campus

Dudek								22 February 2019
CB								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	SDSU West Campus							
RUN:	Existing + Project							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building2-Building1	30.00	80	5	4,686.0	3,683.4	0.00		
			6	4,513.6	3,879.2	0.00		
			1	4,511.5	3,881.2	0.00		
			2	4,596.4	3,958.3	0.00		
			3	4,777.9	3,758.9	0.00		
			4	4,689.1	3,681.0	0.00		
Building10	20.00	50	29	6,423.0	5,510.9	200.00		
			30	6,480.1	5,374.0	200.00		
			31	6,537.1	5,323.8	200.00		
			32	6,614.7	5,328.3	200.00		
			33	6,686.6	5,339.7	200.00		
			34	6,712.8	5,358.0	200.00		
			35	6,691.1	5,443.5	200.00		
			36	6,682.0	5,510.9	200.00		
			37	6,674.0	5,539.4	200.00		
Building11	20.00	80	47	5,448.5	6,823.5	250.00		
			48	5,254.6	6,581.5	250.00		
			49	5,342.4	6,530.2	250.00		
			50	5,513.6	6,774.4	250.00		
Building12	20.00	80	51	5,131.6	6,657.7	250.00		
			52	5,197.3	6,592.4	250.00		
			53	5,445.6	6,881.1	250.00		
			54	5,196.4	7,337.2	250.00		
			55	5,118.2	7,293.4	250.00		

INPUT: BUILDING ROWS**SDSU West Campus**

			56	5,316.7	6,898.3	250.00
			57	5,132.0	6,658.6	250.00

INPUT: GROUND ZONES

SDSU West Campus

Dudek				22 February 2019	
CB				TNM 2.5	
INPUT: GROUND ZONES					
PROJECT/CONTRACT:		SDSU West Campus			
RUN:		Existing + Project			
Ground Zone				Points	
Name	Type	Flow	No.	Coordinates	
		Resistivity		X	Y
		cgs rayls		ft	ft
Ground Zone1	Loose Soil	500	1	4,727.0	1,193.7
			2	6,088.3	1,805.5
			3	6,380.8	1,386.8
			4	5,170.6	620.1
Ground Zone2	Loose Soil	500	5	5,116.5	6,663.9
			6	5,298.1	6,895.3
			7	5,101.2	7,315.9
			8	5,005.6	7,233.7
			9	5,129.9	6,977.5
			10	5,041.9	6,748.0

RESULTS: SOUND LEVELS

SDSU West Campus

Dudek													27 February 2019	
CB													TNM 2.5	
													Calculated with TNM 2.5	
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:													SDSU West Campus	
RUN:													Existing	
BARRIER DESIGN:													INPUT HEIGHTS	
													Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.	
ATMOSPHERICS:													68 deg F, 50% RH	
Receiver														
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier Calculated LAeq1h	Noise Reduction				
					Calculated	Crit'n	Calculated	Crit'n	Impact		Calculated	Goal	Calculated minus Goal	
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
ST9	1	1	52.5	55.8	66	3.3	10	----	55.8	0.0	8	-8.0		
ST10	2	1	52.8	55.9	66	3.1	10	----	55.9	0.0	8	-8.0		
ST1	3	1	77.4	78.1	66	0.7	10	Snd Lvl	78.1	0.0	8	-8.0		
ST2a	4	1	72.2	74.8	66	2.6	10	Snd Lvl	74.8	0.0	8	-8.0		
ST8	5	1	67.0	68.5	66	1.5	10	Snd Lvl	68.5	0.0	8	-8.0		
ST3	6	1	64.9	64.4	66	-0.5	10	----	64.4	0.0	8	-8.0		
ST5	8	1	53.7	57.3	66	3.6	10	----	57.3	0.0	8	-8.0		
ST4	9	1	69.1	70.4	66	1.3	10	Snd Lvl	70.4	0.0	8	-8.0		
ST7	10	1	59.0	59.7	66	0.7	10	----	59.7	0.0	8	-8.0		
ST6	11	1	65.1	68.0	66	2.9	10	Snd Lvl	68.0	0.0	8	-8.0		
Dwelling Units			# DUs	Noise Reduction										
				Min	Avg	Max								
				dB	dB	dB								
All Selected			10	0.0	0.0	0.0								
All Impacted			5	0.0	0.0	0.0								
All that meet NR Goal			0	0.0	0.0	0.0								

INPUT: ROADWAYS

SDSU West Campus

Dudek CB				27 February 2019 TNM 2.5							
INPUT: ROADWAYS				SDSU West Campus			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Existing							
RUN:				Existing							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
South Mission Village Dr 26	30.0	point9	9	6,292.3	4,593.3	0.00				Average	
		point8	8	6,222.5	5,085.5	50.00				Average	
		point7	7	6,196.8	5,331.5	60.00				Average	
		point6	6	6,141.7	5,651.1	70.00				Average	
		point5	5	6,024.1	5,904.5	120.00				Average	
		point4	4	5,840.5	6,253.3	150.00				Average	
		point3	3	5,642.2	6,613.3	200.00				Average	
		point2	2	5,451.2	6,929.1	240.00				Average	
		point1	1	5,234.5	7,325.7	240.00					
North Mission Village Dr	30.0	point15	15	6,329.0	4,615.4	0.00				Average	
		point16	16	6,284.9	4,909.2	0.00				Average	
		point17	17	6,248.2	5,265.4	50.00				Average	
		point18	18	6,207.8	5,478.4	60.00				Average	
		point19	19	6,174.7	5,636.4	80.00				Average	
		point535	535	6,049.9	5,937.5	120.00				Average	
		point20	20	5,866.2	6,257.0	150.00				Average	
		point21	21	5,701.0	6,561.8	200.00				Average	
		point22	22	5,506.3	6,899.7	240.00				Average	
		point23	23	5,289.7	7,296.3	240.00				Average	
		point537	537	5,263.9	7,333.1	240.00					
westFriars (W of Int 9)	40.0	point58	58	6,262.9	4,596.3	20.00				Average	
		point59	59	6,116.0	4,533.9	20.00				Average	
		point60	60	5,965.4	4,482.4	20.00				Average	
		point61	61	5,840.5	4,467.7	20.00				Average	
		point62	62	5,495.3	4,427.4	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point555	555	5,263.9	4,412.7	20.00				Average	
		point556	556	5,047.3	4,353.9	20.00				Average	
		point557	557	4,874.6	4,287.8	20.00				Average	
		point558	558	4,628.6	4,129.9	20.00				Average	
		point559	559	4,426.6	4,030.7	20.00				Average	
		point560	560	4,261.4	3,924.2	20.00				Average	
		point561	561	4,055.7	3,744.3	20.00				Average	
		point562	562	3,945.5	3,641.4	20.00					
17 West San Diego Mission Rd	20.0	point77	77	6,442.0	4,400.7	0.00				Average	
		point78	78	6,666.0	4,540.3	0.00				Average	
		point79	79	6,816.6	4,606.3	0.00				Average	
		point80	80	6,970.9	4,676.1	5.00				Average	
		point81	81	7,121.5	4,672.4	10.00				Average	
		point82	82	7,437.3	4,599.0	15.00				Average	
		point83	83	7,955.1	4,444.8	20.00				Average	Y
		point84	84	8,370.1	4,319.9	15.00				Average	
		point85	85	8,730.0	4,213.4	10.00				Average	
		point86	86	9,078.9	4,059.2	5.00				Average	
		point87	87	9,372.7	3,941.6	0.00					
17 East San Diego Mission Rd	20.0	point88	88	6,456.7	4,386.0	0.00				Average	
		point89	89	6,735.8	4,536.6	0.00				Average	
		point90	90	6,952.5	4,632.1	5.00				Average	
		point91	91	7,077.4	4,650.4	10.00				Average	
		point92	92	7,235.3	4,628.4	20.00				Average	Y
		point93	93	7,991.8	4,408.0	20.00				Average	Y
		point94	94	8,557.4	4,239.1	10.00				Average	
		point95	95	9,005.5	4,066.5	5.00				Average	
		point96	96	9,339.7	3,923.3	0.00					
22 North Ward Rd	30.0	point97	97	9,400.6	3,882.1	0.00				Average	
		point98	98	9,386.0	2,130.3	0.00					
South Ward Row	30.0	point102	102	9,367.6	3,893.1	0.00				Average	
		point103	103	9,363.9	2,119.3	0.00					
South Fenton Pkwy (S of Int 9)	30.0	point242	242	4,260.1	1,609.0	0.00				Average	
		point243	243	4,157.3	1,686.2	0.00				Average	
		point244	244	4,076.5	1,733.9	0.00				Average	
		point245	245	3,999.4	1,752.3	0.00				Average	
		point246	246	3,900.2	1,774.3	0.00				Average	
		point247	247	3,782.7	1,800.0	0.00				Average	
		point248	248	3,551.3	1,866.1	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point249	249	3,426.5	1,895.5	0.00				Average
		point250	250	3,294.3	1,980.0	0.00				Average
		point251	251	3,202.5	2,057.1	0.00				Average
		point252	252	3,081.3	2,182.0	0.00				Average
		point253	253	2,805.8	2,472.1	0.00				
16 North Fenton Pkwy (S of Int 9)	30.0	point255	255	2,842.6	2,501.5	0.00				Average
		point256	256	3,283.3	2,024.0	0.00				Average
		point257	257	3,393.4	1,969.0	0.00				Average
		point258	258	3,624.8	1,888.2	0.00				Average
		point259	259	3,859.8	1,840.4	0.00				Average
		point260	260	4,032.4	1,800.0	0.00				Average
		point261	261	4,252.8	1,645.8	0.00				
South Fenton Pkwy (N of Int 9)	30.0	point268	268	2,721.4	2,549.2	0.00				Average
		point269	269	2,523.0	2,776.9	0.00				Average
		point270	270	2,431.2	2,912.8	0.00				Average
		point271	271	2,310.0	3,089.1	0.00				Average
		point272	272	2,240.3	3,228.6	0.00				Average
		point273	273	2,196.2	3,404.9	0.00				Average
		point274	274	2,188.8	3,794.2	0.00				
North Fenton Pkwy (N of Int 9)	30.0	point275	275	2,758.1	2,578.6	0.00				Average
		point276	276	2,548.8	2,846.7	0.00				Average
		point277	277	2,427.6	3,000.9	0.00				Average
		point278	278	2,343.1	3,144.2	0.00				Average
		point279	279	2,295.3	3,232.3	0.00				Average
		point280	280	2,251.3	3,342.5	0.00				Average
		point281	281	2,229.2	3,511.4	0.00				Average
		point282	261	2,225.6	3,753.8	0.00				Average
		point571	571	2,229.2	3,801.5	0.00				
North Northside Dr	12.0	point283	283	3,900.2	3,642.2	0.00				Average
		point284	284	3,735.0	3,818.4	0.00				Average
		point285	285	3,632.2	3,943.3	0.00				Average
		point286	286	3,547.7	3,987.4	0.00				Average
		point287	287	3,444.8	4,075.5	0.00				Average
		point288	288	3,286.9	4,138.0	0.00				Average
		point289	289	3,015.2	4,251.8	0.00				
South Northside Dr	12.0	point291	291	3,870.9	3,606.9	0.00				Average
		point292	292	3,628.5	3,904.4	0.00				Average
		point293	293	3,529.3	3,981.5	0.00				Average
		point294	294	3,437.5	4,040.3	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point295	295	3,305.3	4,099.0	0.00				Average	
		point296	296	3,103.3	4,190.8	0.00				Average	
		point297	297	2,996.8	4,238.6	0.00					
15 West Rio San Diego Dr	30.0	point299	299	1,806.9	609.4	0.00				Average	
		point300	300	2,005.2	675.5	0.00				Average	
		point301	301	2,141.1	741.6	0.00				Average	
		point302	302	2,313.7	888.5	0.00				Average	
		point303	303	2,493.7	1,094.2	0.00				Average	
		point304	304	2,647.9	1,263.1	0.00				Average	
		point305	305	2,835.2	1,509.2	0.00				Average	
		point306	306	2,941.7	1,608.3	0.00				Average	
		point307	307	3,083.5	1,746.2	0.00				Average	
		point577	577	3,261.1	1,998.8	0.00					
15 East Rio San Diego Dr	30.0	point308	308	1,854.6	572.6	0.00				Average	
		point309	309	2,097.0	675.5	0.00				Average	
		point310	310	2,295.3	829.7	0.00				Average	
		point311	311	2,490.0	1,024.4	0.00				Average	
		point312	312	2,692.0	1,263.1	0.00				Average	
		point313	313	2,853.6	1,479.8	0.00				Average	
		point314	314	2,952.7	1,597.3	0.00				Average	
		point315	315	3,084.9	1,711.1	0.00				Average	
		point578	578	3,279.6	1,957.2	0.00					
I15 South	90.0	point316	316	8,797.6	-298.7	75.00				Average	
		point318	318	8,904.1	142.0	60.00				Average	
		point319	319	8,944.5	443.1	40.00				Average	
		point320	320	8,933.5	825.1	20.00				Average	
		point321	321	8,834.3	1,163.0	20.00				Average	Y
		point 322	322	8,562.5	2,121.5	20.00				Average	Y
		point323	323	8,367.9	2,841.3	0.00				Average	
		point324	324	8,118.2	3,763.1	0.00				Average	
		point325	325	8,092.5	4,325.0	0.00				Average	
		point326	326	8,184.3	4,964.0	0.00				Average	
		point327	327	8,290.8	5,313.0	0.00				Average	
		point328	328	8,698.4	6,613.0	0.00				Average	
		point329	329	8,812.3	7,064.8	15.00				Average	
		point330	330	8,834.3	7,472.4	30.00					
I8 West	90.0	point354	354	12,786.7	1,868.8	20.00				Average	
		point355	355	12,470.9	1,791.7	20.00				Average	
		point356	356	12,235.8	1,758.7	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point357	357	11,839.2	1,685.2	20.00				Average	
		point358	358	11,350.8	1,641.1	20.00				Average	
		point359	359	10,715.4	1,589.7	20.00				Average	
		point360	360	9,870.7	1,600.7	20.00				Average	
		point361	361	9,055.4	1,571.4	20.00				Average	
		point362	362	8,122.6	1,560.3	15.00				Average	
		point363	363	7,582.7	1,534.6	10.00				Average	
		point364	364	7,318.3	1,505.2	10.00				Average	
		point365	365	6,793.1	1,373.0	10.00				Average	
		point548	548	6,389.1	1,193.1	10.00				Average	
		point549	549	5,930.1	906.6	10.00				Average	
		point550	550	5,397.6	521.0	10.00				Average	
		point551	551	4,552.9	-44.6	10.00				Average	
		point552	552	4,071.8	-312.7	10.00					
18 East	90.0	point366	366	12,786.7	1,772.6	20.00				Average	
		point367	367	11,949.4	1,629.4	20.00				Average	
		point368	368	11,163.5	1,567.0	20.00				Average	
		point369	369	9,481.4	1,522.9	20.00				Average	
		point370	370	8,691.8	1,497.2	20.00				Average	
		point371	371	7,905.9	1,486.2	20.00				Average	
		point 372	372	7,700.2	1,486.2	25.00				Average	
		point373	373	7,593.7	1,467.8	25.00				Average	
		point374	374	7,193.4	1,372.3	25.00				Average	
		point375	375	6,730.7	1,203.4	25.00				Average	
		point376	376	6,264.3	950.0	25.00				Average	
		point377	377	5,287.4	303.6	25.00				Average	
		point378	378	4,472.1	-203.2	25.00				Average	
		point547	547	4,244.4	-324.4	25.00					
19 South Rancho Mission Rd (S friars)	30.0	point379	379	9,376.4	3,982.0	0.00				Average	
		point380	380	9,387.4	4,239.1	0.00				Average	
		point381	381	9,468.2	4,345.6	0.00				Average	
		point382	382	9,541.7	4,419.1	0.00				Average	
		point383	383	9,684.9	4,448.4	0.00				Average	
		point384	384	9,897.9	4,496.2	0.00				Average	
		point385	385	10,015.4	4,558.6	0.00				Average	
		point386	386	10,085.2	4,698.2	0.00				Average	
		point387	387	10,096.2	4,815.7	0.00				Average	
		point388	388	10,081.5	4,889.1	0.00				Average	
		point572	572	9,919.9	5,531.8	0.00					

INPUT: ROADWAYS

SDSU West Campus

North Mission Road (S of Friars)	30.0	point389	389	9,398.4	3,974.7	0.00				Average
		point390	390	9,416.8	4,231.8	0.00				Average
		point391	391	9,493.9	4,349.3	0.00				Average
		point392	392	9,574.7	4,393.3	0.00				Average
		point393	393	9,780.4	4,433.7	0.00				Average
		point394	394	9,978.7	4,499.8	0.00				Average
		point395	395	10,044.8	4,547.6	0.00				Average
		point396	396	10,107.2	4,694.5	0.00				Average
		point397	397	10,114.6	4,808.3	0.00				Average
		point398	398	10,088.9	4,922.2	0.00				Average
		point399	399	9,956.7	5,546.5	0.00				
West San Diego Mission Rd (E of Int 24)	20.0	point401	401	9,424.1	3,919.6	0.00				Average
		point402	402	10,026.4	3,710.2	0.00				Average
		point403	403	10,360.6	3,603.7	0.00				Average
		point404	404	10,665.5	3,522.9	0.00				Average
		point405	405	10,771.9	3,500.9	0.00				Average
		point406	406	11,209.0	3,453.2	0.00				Average
		point407	407	11,359.6	3,475.2	0.00				Average
		point408	408	11,473.4	3,563.4	0.00				Average
		point409	409	11,627.7	3,721.3	0.00				Average
		point410	410	11,759.9	3,860.8	0.00				Average
		point575	575	11,848.0	3,926.9	0.00				Average
		point576	576	12,127.1	3,971.0	0.00				
East San Diego Mission Rd (E of Int 24)	20.0	point424	424	9,424.1	3,886.5	0.00				Average
		point425	425	10,573.7	3,508.3	0.00				Average
		point426	426	10,889.5	3,449.5	0.00				Average
		point427	427	11,128.2	3,431.1	0.00				Average
		point428	428	11,304.5	3,420.1	0.00				Average
		point429	429	11,407.3	3,464.2	0.00				Average
		point430	430	11,550.5	3,574.4	0.00				Average
		point431	431	11,675.4	3,728.6	0.00				Average
		point432	432	11,800.3	3,849.8	0.00				Average
		point433	433	11,881.1	3,915.9	0.00				Average
		point434	434	12,116.1	3,934.3	0.00				
South Fairmount Ave (N of Int 25)	25.0	point436	436	12,145.5	3,989.4	0.00				Average
		point437	437	12,156.5	5,160.9	0.00				
North Fairmount Ave (N of Int 25)	25.0	point438	438	12,163.8	4,015.1	0.00				Average
		point439	439	12,178.5	5,182.9	0.00				
23 South Fairmont Ave (S of Int 25)	25.0	point440	440	12,147.7	3,926.2	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point441	441	12,144.0	2,644.5	0.00				Average
		point442	442	12,151.4	2,596.7	0.00				Average
		point443	443	12,202.8	2,519.6	0.00				
North Fairmount Ave (S of Int 25)	25.0	point444	444	12,169.7	3,915.2	0.00				Average
		point445	445	12,169.7	2,732.6	0.00				Average
		point446	446	12,177.1	2,644.5	0.00				Average
		point574	574	12,191.8	2,574.7	0.00				
South Mission Gorge Rd	30.0	point462	462	12,136.7	2,064.2	0.00				Average
		point463	463	12,133.0	2,313.9	0.00				Average
		point464	464	12,210.1	2,527.0	0.00				Average
		point465	465	12,353.3	2,710.6	0.00				Average
		point466	466	12,500.3	2,824.4	0.00				Average
		point467	467	12,794.1	2,997.0	0.00				
North Mission Gorge Rd	30.0	point469	469	12,199.1	2,115.6	0.00				Average
		point470	470	12,195.4	2,317.6	0.00				Average
		point471	471	12,257.9	2,504.9	0.00				Average
		point472	472	12,324.0	2,626.1	0.00				Average
		point473	473	12,408.4	2,725.3	0.00				Average
		point474	474	12,533.3	2,809.7	0.00				Average
		point475	475	12,790.4	2,953.0	0.00				
West Camino Del Rio (E of Int 27)	30.0	point528	528	9,396.9	2,075.2	0.00				Average
		point527	527	9,745.9	2,027.5	0.00				Average
		point526	526	10,065.4	1,972.4	0.00				Average
		point105	105	10,252.7	1,910.0	0.00				Average
		point447	447	10,539.1	1,865.9	0.00				Average
		point448	448	10,913.7	1,869.6	0.00				Average
		point449	449	11,299.3	1,843.9	0.00				Average
		point450	450	11,508.7	1,843.9	0.00				Average
		point451	451	11,651.9	1,854.9	0.00				Average
		point452	452	11,791.5	1,921.0	0.00				Average
		point453	453	11,949.4	2,027.5	0.00				Average
		point454	454	12,096.3	2,137.7	0.00				
East Camino Del Rio (E of Int 27)	30.0	point461	461	9,419.0	2,023.8	0.00				Average
		point460	460	9,786.3	1,972.4	0.00				Average
		point459	459	10,047.0	1,924.6	0.00				Average
		point458	458	10,300.4	1,858.6	0.00				Average
		point457	457	10,564.8	1,851.2	0.00				Average
		point456	456	11,170.8	1,832.8	0.00				Average
		point455	455	11,490.3	1,818.1	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point190	190	11,707.0	1,829.2	0.00				Average
		point192	192	12,063.2	2,086.3	0.00				
South Stadium Way	45.0	point478	478	4,605.4	4,060.7	0.00				Average
		point479	479	4,733.9	4,001.9	0.00				Average
		point480	480	4,807.3	3,935.8	0.00				Average
		point481	481	4,858.8	3,814.6	0.00				Average
		point482	482	4,910.2	3,311.5	0.00				Average
		point483	483	4,965.3	2,617.4	0.00				Average
		point569	569	5,013.0	2,117.9	0.00				
North Stadium Way	45.0	point484	484	4,954.3	4,238.5	0.00				Average
		point485	485	4,891.8	4,161.3	0.00				Average
		point486	486	4,862.4	4,109.9	0.00				Average
		point487	487	4,888.2	3,849.1	0.00				Average
		point488	488	4,891.8	3,687.6	0.00				Average
		point570	570	5,042.4	2,137.7	0.00				
West Stadium Way (W of Int 26)	20.0	point489	489	9,334.5	2,728.9	0.00				Average
		point490	490	9,239.0	2,688.5	0.00				Average
		point491	491	9,169.3	2,648.1	0.00				Average
		point492	492	8,912.2	2,640.8	0.00				Average
		point493	493	8,824.0	2,662.8	0.00				Average
		point494	494	8,735.9	2,681.2	0.00				Average
		point495	495	8,633.1	2,688.5	0.00				Average
		point496	496	8,570.6	2,677.5	0.00				Average
		point497	497	8,276.8	2,706.9	0.00				Average
		point498	498	8,129.9	2,747.3	0.00				
East Stadium Way (W of Int 26)	20.0	point499	499	9,334.5	2,703.2	0.00				Average
		point500	500	9,224.3	2,655.5	0.00				Average
		point501	501	9,169.3	2,629.8	0.00				Average
		point502	502	8,912.2	2,629.8	0.00				Average
		point503	503	8,842.4	2,637.1	0.00				Average
		point504	504	8,695.5	2,666.5	0.00				Average
		point505	505	8,592.7	2,662.8	0.00				Average
		point506	506	8,387.0	2,651.8	0.00				Average
		point507	507	8,273.2	2,666.5	0.00				Average
		point573	573	8,152.0	2,710.6	0.00				
5 West Friars- (W of Int 10)	40.0	point509	509	3,873.5	3,585.6	20.00				Average
		point32	32	2,797.5	2,575.7	20.00				
5 East Friars (W of Int 10)	40.0	point510	510	3,928.6	3,545.2	20.00				Average
		point63	63	2,834.2	2,524.2	20.00				

INPUT: ROADWAYS

SDSU West Campus

8 West Friars (Mission to 15)	40.0	point523	523	6,351.7	4,630.6	0.00				Average	
		point40	40	7,189.0	4,906.0	10.00				Average	
		point41	41	7,850.1	5,078.6	20.00				Average	Y
		point600	600	8,165.9	5,163.1	20.00					
8 East Friars (Mission to 15)	40.0	point524	524	6,353.9	4,582.8	0.00				Average	
		point521	521	6,882.7	4,759.1	5.00				Average	
		point522	522	7,169.2	4,858.3	10.00				Average	
		point71	71	7,606.2	4,972.1	20.00				Average	Y
		point599	599	8,228.7	5,142.9	15.00					
West Camino Del Rio (W of Int 27)	20.0	point529	529	2,684.6	-317.1	0.00				Average	
		point106	106	2,901.3	-214.2	0.00				Average	
		point107	107	3,235.5	-177.5	0.00				Average	
		point108	108	3,525.7	-111.4	0.00				Average	
		point109	109	3,698.3	-1.2	0.00				Average	
		point110	110	3,944.3	233.8	0.00				Average	
		point111	111	4,164.7	457.8	0.00				Average	
		point112	112	4,370.3	656.2	0.00				Average	
		point113	113	4,587.0	839.8	0.00				Average	
		point114	114	4,704.5	913.2	0.00				Average	
		point115	115	4,829.4	920.6	0.00				Average	
		point116	116	4,902.9	869.2	0.00				Average	
		point117	117	5,009.4	714.9	0.00				Average	
		point118	118	5,090.2	615.7	0.00				Average	
		point119	119	5,204.0	586.4	0.00				Average	
		point120	120	5,354.6	652.5	0.00				Average	
		point121	121	5,696.1	909.5	0.00				Average	
		point122	122	6,151.5	1,232.7	0.00				Average	
		point123	123	6,566.5	1,420.0	0.00				Average	
		point124	124	6,871.3	1,522.9	0.00				Average	
		point125	125	7,631.6	1,699.1	0.00				Average	
		point126	126	7,778.4	1,739.6	0.00				Average	
		point127	127	7,892.3	1,827.7	0.00				Average	
		point128	128	8,156.7	2,154.6	0.00				Average	
		point129	129	8,300.0	2,253.7	0.00				Average	
		point130	130	8,615.8	2,319.8	0.00				Average	
		point131	131	8,876.5	2,301.4	0.00				Average	
		point132	132	9,185.0	2,117.8	0.00				Average	
		point133	133	9,311.7	2,070.1	0.00					
East Camino Del Rio (W of Int 27)	20.0	point530	530	2,726.1	-320.7	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point193	193	2,873.0	-265.6	0.00				Average	
		point194	194	3,030.9	-236.3	0.00				Average	
		point195	195	3,229.3	-203.2	0.00				Average	
		point196	196	3,493.7	-166.5	0.00				Average	
		point197	197	3,651.6	-63.6	0.00				Average	
		point198	198	4,569.8	799.4	0.00				Average	
		point199	199	4,705.6	880.2	0.00				Average	
		point200	200	4,782.7	898.6	0.00				Average	
		point201	201	4,841.5	891.2	0.00				Average	
		point202	202	4,911.3	828.8	0.00				Average	
		point203	203	5,010.5	678.2	0.00				Average	
		point204	204	5,069.2	586.4	0.00				Average	
		point205	205	5,227.1	560.7	0.00				Average	
		point206	206	5,465.8	703.9	0.00				Average	
		point207	207	5,814.7	964.7	0.00				Average	
		point208	208	6,152.6	1,207.1	0.00				Average	
		point209	209	6,420.7	1,342.9	0.00				Average	
		point210	210	6,619.0	1,431.1	0.00				Average	
		point211	211	6,931.2	1,522.9	0.00				Average	
		point212	212	7,379.2	1,625.7	0.00				Average	
		point213	213	7,742.8	1,706.5	0.00				Average	
		point214	214	7,864.0	1,761.6	0.00				Average	
		point215	215	8,033.0	1,967.3	0.00				Average	
		point216	216	8,201.9	2,180.2	0.00				Average	
		point217	217	8,315.7	2,239.0	0.00				Average	
		point218	218	8,697.7	2,301.4	0.00				Average	
		point219	219	8,851.9	2,275.8	0.00				Average	
		point220	220	9,160.4	2,088.5	0.00				Average	
		point221	221	9,296.3	2,040.7	0.00					
West Twain Ave	20.0	point533	533	12,169.7	3,967.3	0.00				Average	
		point411	411	12,779.4	3,956.3	0.00					
East Twain Ave	20.0	point534	534	12,180.7	3,941.6	0.00				Average	
		point532	532	12,783.0	3,923.3	0.00					
East Friars (W of Int 9) 7	40.0	point538	538	6,270.2	4,544.9	20.00				Average	
		point539	539	6,057.2	4,464.1	20.00				Average	
		point540	540	5,925.0	4,427.4	20.00				Average	
		point541	541	5,737.7	4,409.0	20.00				Average	
		point542	542	5,388.8	4,383.3	20.00				Average	
		point543	543	5,230.9	4,357.6	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point563	563	5,032.6	4,295.1	20.00				Average	
		point564	564	4,830.6	4,203.3	20.00				Average	
		point565	565	4,595.5	4,067.5	20.00				Average	
		point566	566	4,349.5	3,905.8	20.00				Average	
		point567	567	4,220.9	3,803.0	20.00				Average	
		point568	568	3,985.9	3,590.0	20.00					
4 west Friars east of 805	40.0	point579	579	2,736.1	2,516.1	0.00				Average	
		point580	580	2,350.4	2,126.9	0.00				Average	
		point581	581	2,130.1	1,935.9	0.00				Average	
		point582	582	1,924.4	1,767.0	0.00				Average	
		point583	583	1,645.3	1,524.6	0.00					
4 East Friars east of 805	40.0	point584	584	2,776.4	2,475.8	0.00				Average	
		point585	585	2,508.3	2,189.3	0.00				Average	
		point586	586	2,321.1	2,035.0	0.00				Average	
		point587	587	2,152.1	1,866.1	0.00				Average	
		point588	588	1,961.2	1,715.6	0.00				Average	
		point589	589	1,685.7	1,491.5	0.00					
North River Run Dr	12.0	point590	590	2,471.7	1,092.6	0.00				Average	
		point591	591	2,273.7	1,256.6	0.00				Average	
		point592	592	2,157.8	1,399.4	0.00				Average	
		point593	593	1,962.7	1,696.4	0.00					
South River Run Dr	12.0	point594	594	2,478.7	1,132.2	0.00				Average	
		point595	595	2,319.0	1,259.4	0.00				Average	
		point596	596	2,234.1	1,354.2	0.00				Average	
		point597	597	2,101.2	1,528.1	0.00				Average	
		point598	598	1,995.2	1,707.7	0.00					
West Friars (15 to Rancho Mission)	40.0	point601	601	8,165.9	5,163.1	20.00				Average	Y
		point42	42	8,481.7	5,247.6	20.00				Average	
		point43	43	9,190.6	5,438.6	10.00				Average	
		point44	44	9,583.5	5,541.4	5.00				Average	
		point45	45	9,910.4	5,629.5	0.00				Average	
		point46	46	10,233.5	5,721.3	0.00				Average	
		point553	553	10,431.9	5,787.4	0.00				Average	Y
		point554	554	11,004.8	5,985.8	0.00					
9 East Friars (15 to Rancho Mission)	40.0	point602	602	8,228.7	5,142.9	15.00				Average	Y
		point72	72	8,851.2	5,313.7	10.00				Average	
		point73	73	9,578.4	5,490.0	10.00				Average	
		point74	74	10,155.0	5,636.9	10.00				Average	
		point75	75	10,738.9	5,842.5	5.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point76	76	11,010.7	5,930.7	0.00					
I-15 North	90.0	point603	603	8,885.7	-269.3	60.00				Average	
		point604	604	9,006.9	222.8	50.00				Average	
		point605	605	9,010.6	527.6	40.00				Average	
		point606	606	8,984.9	902.2	30.00				Average	
		point607	607	8,915.1	1,225.4	30.00				Average	Y
		point608	608	8,610.3	2,253.7	20.00				Average	Y
		point609	609	8,503.8	2,617.3	20.00				Average	Y
		point610	610	8,305.4	3,348.1	10.00				Average	
		point611	611	8,235.7	3,649.3	0.00				Average	
		point612	612	8,187.9	3,895.3	0.00				Average	
		point613	613	8,169.6	4,185.5	0.00				Average	
		point614	614	8,180.6	4,505.0	0.00				Average	
		point615	615	8,221.0	4,776.7	10.00				Average	
		point616	616	8,265.1	4,975.1	10.00				Average	
		point617	617	8,613.9	6,051.1	10.00				Average	
		point618	618	8,819.6	6,701.2	20.00				Average	
		point619	619	8,896.8	7,046.4	30.00				Average	Y
		point620	620	8,922.4	7,288.8	40.00				Average	Y
		point621	621	8,922.4	7,476.1	50.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

Dudek			27 February 2019									
CB			TNM 2.5									
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:			SDSU West Campus									
RUN:			Existing									
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
South Mission Village Dr 26	point9	9	981	45	20	45	10	45	0	0	0	0
	point8	8	981	45	20	45	10	45	0	0	0	0
	point7	7	981	45	20	45	10	45	0	0	0	0
	point6	6	981	45	20	45	10	45	0	0	0	0
	point5	5	981	45	20	45	10	45	0	0	0	0
	point4	4	981	45	20	45	10	45	0	0	0	0
	point3	3	981	45	20	45	10	45	0	0	0	0
	point2	2	981	45	20	45	10	45	0	0	0	0
	point1	1										
North Mission Village Dr	point15	15	981	45	20	45	10	45	0	0	0	0
	point16	16	981	45	20	45	10	45	0	0	0	0
	point17	17	981	45	20	45	10	45	0	0	0	0
	point18	18	981	45	20	45	10	45	0	0	0	0
	point19	19	981	45	20	45	10	45	0	0	0	0
	point535	535	981	45	20	45	10	45	0	0	0	0
	point20	20	981	45	20	45	10	45	0	0	0	0
	point21	21	981	45	20	45	10	45	0	0	0	0
	point22	22	981	45	20	45	10	45	0	0	0	0
	point23	23	981	45	20	45	10	45	0	0	0	0
	point537	537										
westFriars (W of Int 9)	point58	58	3290	45	68	45	34	45	0	0	0	0
	point59	59	3290	45	68	45	34	45	0	0	0	0
	point60	60	3290	45	68	45	34	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point61	61	3290	45	68	45	34	45	0	0	0	0
	point62	62	3290	45	68	45	34	45	0	0	0	0
	point555	555	3290	45	68	45	34	45	0	0	0	0
	point556	556	3290	45	68	45	34	45	0	0	0	0
	point557	557	3290	45	68	45	34	45	0	0	0	0
	point558	558	3290	45	68	45	34	45	0	0	0	0
	point559	559	3290	45	68	45	34	45	0	0	0	0
	point560	560	3290	45	68	45	34	45	0	0	0	0
	point561	561	3290	45	68	45	34	45	0	0	0	0
	point562	562										
17 West San Diego Mission Rd	point77	77	896	45	18	45	9	45	0	0	0	0
	point78	78	896	45	18	45	9	45	0	0	0	0
	point79	79	896	45	18	45	9	45	0	0	0	0
	point80	80	896	45	18	45	9	45	0	0	0	0
	point81	81	896	45	18	45	9	45	0	0	0	0
	point82	82	896	45	18	45	9	45	0	0	0	0
	point83	83	896	45	18	45	9	45	0	0	0	0
	point84	84	896	45	18	45	9	45	0	0	0	0
	point85	85	896	45	18	45	9	45	0	0	0	0
	point86	86	896	45	18	45	9	45	0	0	0	0
	point87	87										
17 East San Diego Mission Rd	point88	88	896	45	18	45	9	45	0	0	0	0
	point89	89	896	45	18	45	9	45	0	0	0	0
	point90	90	896	45	18	45	9	45	0	0	0	0
	point91	91	896	45	18	45	9	45	0	0	0	0
	point92	92	896	45	18	45	9	45	0	0	0	0
	point93	93	896	45	18	45	9	45	0	0	0	0
	point94	94	896	45	18	45	9	45	0	0	0	0
	point95	95	896	45	18	45	9	45	0	0	0	0
	point96	96										
22 North Ward Rd	point97	97	827	45	17	45	9	45	0	0	0	0
	point98	98										
South Ward Row	point102	102	827	45	17	45	9	45	0	0	0	0
	point103	103										
South Fenton Pkwy (S of Int 9)	point242	242	333	30	7	30	3	30	0	0	0	0
	point243	243	333	30	7	30	3	30	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point244	244	333	30	7	30	3	30	0	0	0	0
	point245	245	333	30	7	30	3	30	0	0	0	0
	point246	246	333	30	7	30	3	30	0	0	0	0
	point247	247	333	30	7	30	3	30	0	0	0	0
	point248	248	333	30	7	30	3	30	0	0	0	0
	point249	249	333	30	7	30	3	30	0	0	0	0
	point250	250	333	30	7	30	3	30	0	0	0	0
	point251	251	333	30	7	30	3	30	0	0	0	0
	point252	252	333	30	7	30	3	30	0	0	0	0
	point253	253										
16 North Fenton Pkwy (S of Int 9)	point255	255	333	30	7	30	3	30	0	0	0	0
	point256	256	333	30	7	30	3	30	0	0	0	0
	point257	257	333	30	7	30	3	30	0	0	0	0
	point258	258	333	30	7	30	3	30	0	0	0	0
	point259	259	333	30	7	30	3	30	0	0	0	0
	point260	260	333	30	7	30	3	30	0	0	0	0
	point261	261										
South Fenton Pkwy (N of Int 9)	point268	268	0	0	0	0	0	0	0	0	0	0
	point269	269	0	0	0	0	0	0	0	0	0	0
	point270	270	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point274	274										
North Fenton Pkwy (N of Int 9)	point275	275	0	0	0	0	0	0	0	0	0	0
	point276	276	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point280	280	0	0	0	0	0	0	0	0	0	0
	point281	281	0	0	0	0	0	0	0	0	0	0
	point282	282	0	0	0	0	0	0	0	0	0	0
	point571	571										
North Northside Dr	point283	283	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point286	286	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point289	289										
South Northside Dr	point291	291	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point293	293	0	0	0	0	0	0	0	0	0	0
	point294	294	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point297	297										
15 West Rio San Diego Dr	point299	299	509	45	10	45	5	45	0	0	0	0
	point300	300	509	45	10	45	5	45	0	0	0	0
	point301	301	509	45	10	45	5	45	0	0	0	0
	point302	302	509	45	10	45	5	45	0	0	0	0
	point303	303	509	45	10	45	5	45	0	0	0	0
	point304	304	509	45	10	45	5	45	0	0	0	0
	point305	305	509	45	10	45	5	45	0	0	0	0
	point306	306	509	45	10	45	5	45	0	0	0	0
	point307	307	509	45	10	45	5	45	0	0	0	0
	point577	577										
15 East Rio San Diego Dr	point308	308	509	45	10	45	5	45	0	0	0	0
	point309	309	509	45	10	45	5	45	0	0	0	0
	point310	310	509	45	10	45	5	45	0	0	0	0
	point311	311	509	45	10	45	5	45	0	0	0	0
	point312	312	509	45	10	45	5	45	0	0	0	0
	point313	313	509	45	10	45	5	45	0	0	0	0
	point314	314	509	45	10	45	5	45	0	0	0	0
	point315	315	509	45	10	45	5	45	0	0	0	0
	point578	578										
I15 South	point316	316	9108	65	188	65	94	65	0	0	0	0
	point318	318	9108	65	188	65	94	65	0	0	0	0
	point319	319	9108	65	188	65	94	65	0	0	0	0
	point320	320	9108	65	188	65	94	65	0	0	0	0
	point321	321	9108	65	188	65	94	65	0	0	0	0
	point 322	322	9108	65	188	65	94	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point323	323	9108	65	188	65	94	65	0	0	0	0
	point324	324	9108	65	188	65	94	65	0	0	0	0
	point325	325	9108	65	188	65	94	65	0	0	0	0
	point326	326	9108	65	188	65	94	65	0	0	0	0
	point327	327	9108	65	188	65	94	65	0	0	0	0
	point328	328	9108	65	188	65	94	65	0	0	0	0
	point329	329	9108	65	188	65	94	65	0	0	0	0
	point330	330										
I8 West	point354	354	10006	65	206	65	103	65	0	0	0	0
	point355	355	10006	65	206	65	103	65	0	0	0	0
	point356	356	10006	65	206	65	103	65	0	0	0	0
	point357	357	10006	65	206	65	103	65	0	0	0	0
	point358	358	10006	65	206	65	103	65	0	0	0	0
	point359	359	10006	65	206	65	103	65	0	0	0	0
	point360	360	10006	65	206	65	103	65	0	0	0	0
	point361	361	10006	65	206	65	103	65	0	0	0	0
	point362	362	10006	65	206	65	103	65	0	0	0	0
	point363	363	10006	65	206	65	103	65	0	0	0	0
	point364	364	10006	65	206	65	103	65	0	0	0	0
	point365	365	10006	65	206	65	103	65	0	0	0	0
	point548	548	10006	65	206	65	103	65	0	0	0	0
	point549	549	10006	65	206	65	103	65	0	0	0	0
	point550	550	10006	65	206	65	103	65	0	0	0	0
	point551	551	10006	65	206	65	103	65	0	0	0	0
	point552	552										
I8 East	point366	366	10006	65	209	65	105	65	0	0	0	0
	point367	367	10006	65	209	65	105	65	0	0	0	0
	point368	368	10006	65	209	65	105	65	0	0	0	0
	point369	369	10006	65	209	65	105	65	0	0	0	0
	point370	370	10006	65	209	65	105	65	0	0	0	0
	point371	371	10006	65	209	65	105	65	0	0	0	0
	point 372	372	10006	65	209	65	105	65	0	0	0	0
	point373	373	10006	65	209	65	105	65	0	0	0	0
	point374	374	10006	65	209	65	105	65	0	0	0	0
	point375	375	10006	65	209	65	105	65	0	0	0	0
	point376	376	10006	65	209	65	105	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point377	377	10006	65	209	65	105	65	0	0	0	0
	point378	378	10006	65	209	65	105	65	0	0	0	0
	point547	547										
19 South Rancho Mission Rd (S friars)	point379	379	1072	45	22	45	11	45	0	0	0	0
	point380	380	1072	45	22	45	11	45	0	0	0	0
	point381	381	1072	45	22	45	11	45	0	0	0	0
	point382	382	1072	45	22	45	11	45	0	0	0	0
	point383	383	1072	45	22	45	11	45	0	0	0	0
	point384	384	1072	45	22	45	11	45	0	0	0	0
	point385	385	1072	45	22	45	11	45	0	0	0	0
	point386	386	1072	45	22	45	11	45	0	0	0	0
	point387	387	1072	45	22	45	11	45	0	0	0	0
	point388	388	1072	45	22	45	11	45	0	0	0	0
	point572	572										
North Mission Road (S of Friars)	point389	389	1072	45	22	45	11	45	0	0	0	0
	point390	390	1072	45	22	45	11	45	0	0	0	0
	point391	391	1072	45	22	45	11	45	0	0	0	0
	point392	392	1072	45	22	45	11	45	0	0	0	0
	point393	393	1072	45	22	45	11	45	0	0	0	0
	point394	394	1072	45	22	45	11	45	0	0	0	0
	point395	395	1072	45	22	45	11	45	0	0	0	0
	point396	396	1072	45	22	45	11	45	0	0	0	0
	point397	397	1072	45	22	45	11	45	0	0	0	0
	point398	398	1072	45	22	45	11	45	0	0	0	0
	point399	399										
West San Diego Mission Rd (E of Int 24)	point401	401	794	45	16	45	8	45	0	0	0	0
	point402	402	794	45	16	45	8	45	0	0	0	0
	point403	403	794	45	16	45	8	45	0	0	0	0
	point404	404	794	45	16	45	8	45	0	0	0	0
	point405	405	794	45	16	45	8	45	0	0	0	0
	point406	406	794	45	16	45	8	45	0	0	0	0
	point407	407	794	45	16	45	8	45	0	0	0	0
	point408	408	794	45	16	45	8	45	0	0	0	0
	point409	409	794	45	16	45	8	45	0	0	0	0
	point410	410	794	45	16	45	8	45	0	0	0	0
	point575	575	794	45	16	45	8	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point576	576										
East San Diego Mission Rd (E of Int 24)	point424	424	794	45	16	45	8	45	0	0	0	0
	point425	425	794	45	16	45	8	45	0	0	0	0
	point426	426	794	45	16	45	8	45	0	0	0	0
	point427	427	794	45	16	45	8	45	0	0	0	0
	point428	428	794	45	16	45	8	45	0	0	0	0
	point429	429	794	45	16	45	8	45	0	0	0	0
	point430	430	794	45	16	45	8	45	0	0	0	0
	point431	431	794	45	16	45	8	45	0	0	0	0
	point432	432	794	45	16	45	8	45	0	0	0	0
	point433	433	794	45	16	45	8	45	0	0	0	0
	point434	434										
South Fairmount Ave (N of Int 25)	point436	436	0	0	0	0	0	0	0	0	0	0
	point437	437										
North Fairmount Ave (N of Int 25)	point438	438	0	0	0	0	0	0	0	0	0	0
	point439	439										
23 South Fairmont Ave (S of Int 25)	point440	440	613	45	13	45	6	45	0	0	0	0
	point441	441	613	45	13	45	6	45	0	0	0	0
	point442	442	613	45	13	45	6	45	0	0	0	0
	point443	443										
North Fairmount Ave (S of Int 25)	point444	444	613	45	13	45	6	45	0	0	0	0
	point445	445	613	45	13	45	6	45	0	0	0	0
	point446	446	613	45	13	45	6	45	0	0	0	0
	point574	574										
South Mission Gorge Rd	point462	462	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point466	466	0	0	0	0	0	0	0	0	0	0
	point467	467										
North Mission Gorge Rd	point469	469	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point472	472	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point475	475										
West Camino Del Rio (E of Int 27)	point528	528	0	0	0	0	0	0	0	0	0	0
	point527	527	0	0	0	0	0	0	0	0	0	0
	point526	526	0	0	0	0	0	0	0	0	0	0
	point105	105	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454										
East Camino Del Rio (E of Int 27)	point461	461	0	0	0	0	0	0	0	0	0	0
	point460	460	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point455	455	0	0	0	0	0	0	0	0	0	0
	point190	190	0	0	0	0	0	0	0	0	0	0
	point192	192										
South Stadium Way	point478	478	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point569	569										
North Stadium Way	point484	484	0	0	0	0	0	0	0	0	0	0
	point485	485	0	0	0	0	0	0	0	0	0	0
	point486	486	0	0	0	0	0	0	0	0	0	0
	point487	487	0	0	0	0	0	0	0	0	0	0
	point488	488	0	0	0	0	0	0	0	0	0	0
	point570	570										
West Stadium Way (W of Int 26)	point489	489	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point490	490	0	0	0	0	0	0	0	0	0	0
	point491	491	0	0	0	0	0	0	0	0	0	0
	point492	492	0	0	0	0	0	0	0	0	0	0
	point493	493	0	0	0	0	0	0	0	0	0	0
	point494	494	0	0	0	0	0	0	0	0	0	0
	point495	495	0	0	0	0	0	0	0	0	0	0
	point496	496	0	0	0	0	0	0	0	0	0	0
	point497	497	0	0	0	0	0	0	0	0	0	0
	point498	498										
East Stadium Way (W of Int 26)	point499	499	0	0	0	0	0	0	0	0	0	0
	point500	500	0	0	0	0	0	0	0	0	0	0
	point501	501	0	0	0	0	0	0	0	0	0	0
	point502	502	0	0	0	0	0	0	0	0	0	0
	point503	503	0	0	0	0	0	0	0	0	0	0
	point504	504	0	0	0	0	0	0	0	0	0	0
	point505	505	0	0	0	0	0	0	0	0	0	0
	point506	506	0	0	0	0	0	0	0	0	0	0
	point507	507	0	0	0	0	0	0	0	0	0	0
	point573	573										
5 West Friars- (W of Int 10)	point509	509	2325	45	48	45	24	45	0	0	0	0
	point32	32										
5 East Friars (W of Int 10)	point510	510	2325	45	48	45	24	45	0	0	0	0
	point63	63										
8 West Friars (Mission to 15)	point523	523	3679	45	76	45	38	45	0	0	0	0
	point40	40	3679	45	76	45	38	45	0	0	0	0
	point41	41	3679	45	76	45	38	45	0	0	0	0
	point600	600										
8 East Friars (Mission to 15)	point524	524	3679	45	76	45	38	45	0	0	0	0
	point521	521	3679	45	76	45	38	45	0	0	0	0
	point522	522	3679	45	76	45	38	45	0	0	0	0
	point71	71	3679	45	76	45	38	45	0	0	0	0
	point599	599										
West Camino Del Rio (W of Int 27)	point529	529	0	0	0	0	0	0	0	0	0	0
	point106	106	0	0	0	0	0	0	0	0	0	0
	point107	107	0	0	0	0	0	0	0	0	0	0
	point108	108	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point109	109	0	0	0	0	0	0	0	0	0	0
	point110	110	0	0	0	0	0	0	0	0	0	0
	point111	111	0	0	0	0	0	0	0	0	0	0
	point112	112	0	0	0	0	0	0	0	0	0	0
	point113	113	0	0	0	0	0	0	0	0	0	0
	point114	114	0	0	0	0	0	0	0	0	0	0
	point115	115	0	0	0	0	0	0	0	0	0	0
	point116	116	0	0	0	0	0	0	0	0	0	0
	point117	117	0	0	0	0	0	0	0	0	0	0
	point118	118	0	0	0	0	0	0	0	0	0	0
	point119	119	0	0	0	0	0	0	0	0	0	0
	point120	120	0	0	0	0	0	0	0	0	0	0
	point121	121	0	0	0	0	0	0	0	0	0	0
	point122	122	0	0	0	0	0	0	0	0	0	0
	point123	123	0	0	0	0	0	0	0	0	0	0
	point124	124	0	0	0	0	0	0	0	0	0	0
	point125	125	0	0	0	0	0	0	0	0	0	0
	point126	126	0	0	0	0	0	0	0	0	0	0
	point127	127	0	0	0	0	0	0	0	0	0	0
	point128	128	0	0	0	0	0	0	0	0	0	0
	point129	129	0	0	0	0	0	0	0	0	0	0
	point130	130	0	0	0	0	0	0	0	0	0	0
	point131	131	0	0	0	0	0	0	0	0	0	0
	point132	132	0	0	0	0	0	0	0	0	0	0
	point133	133										
East Camino Del Rio (W of Int 27)	point530	530	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point211	211	0	0	0	0	0	0	0	0	0	0
	point212	212	0	0	0	0	0	0	0	0	0	0
	point213	213	0	0	0	0	0	0	0	0	0	0
	point214	214	0	0	0	0	0	0	0	0	0	0
	point215	215	0	0	0	0	0	0	0	0	0	0
	point216	216	0	0	0	0	0	0	0	0	0	0
	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221										
West Twain Ave	point533	533	0	0	0	0	0	0	0	0	0	0
	point411	411										
East Twain Ave	point534	534	0	0	0	0	0	0	0	0	0	0
	point532	532										
East Friars (W of Int 9) 7	point538	538	3290	45	68	45	34	45	0	0	0	0
	point539	539	3290	45	68	45	34	45	0	0	0	0
	point540	540	3290	45	68	45	34	45	0	0	0	0
	point541	541	3290	45	68	45	34	45	0	0	0	0
	point542	542	3290	45	68	45	34	45	0	0	0	0
	point543	543	3290	45	68	45	34	45	0	0	0	0
	point563	563	3290	45	68	45	34	45	0	0	0	0
	point564	564	3290	45	68	45	34	45	0	0	0	0
	point565	565	3290	45	68	45	34	45	0	0	0	0
	point566	566	3290	45	68	45	34	45	0	0	0	0
	point567	567	3290	45	68	45	34	45	0	0	0	0
	point568	568										
4 west Friars east of 805	point579	579	2366	45	49	45	24	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point580	580	2366	45	49	45	24	45	0	0	0	0
	point581	581	2366	45	49	45	24	45	0	0	0	0
	point582	582	2366	45	49	45	24	45	0	0	0	0
	point583	583										
4 East Friars east of 805	point584	584	2366	45	49	45	24	45	0	0	0	0
	point585	585	2366	45	49	45	24	45	0	0	0	0
	point586	586	2366	45	49	45	24	45	0	0	0	0
	point587	587	2366	45	49	45	24	45	0	0	0	0
	point588	588	2366	45	49	45	24	45	0	0	0	0
	point589	589										
North River Run Dr	point590	590	0	0	0	0	0	0	0	0	0	0
	point591	591	0	0	0	0	0	0	0	0	0	0
	point592	592	0	0	0	0	0	0	0	0	0	0
	point593	593										
South River Run Dr	point594	594	0	0	0	0	0	0	0	0	0	0
	point595	595	0	0	0	0	0	0	0	0	0	0
	point596	596	0	0	0	0	0	0	0	0	0	0
	point597	597	0	0	0	0	0	0	0	0	0	0
	point598	598										
West Friars (15 to Rancho Mission)	point601	601	3360	45	69	45	35	45	0	0	0	0
	point42	42	3360	45	69	45	35	45	0	0	0	0
	point43	43	3360	45	69	45	35	45	0	0	0	0
	point44	44	3360	45	69	45	35	45	0	0	0	0
	point45	45	3360	45	69	45	35	45	0	0	0	0
	point46	46	3360	45	69	45	35	45	0	0	0	0
	point553	553	3360	45	69	45	35	45	0	0	0	0
	point554	554										
9 East Friars (15 to Rancho Mission)	point602	602	3360	45	69	45	35	45	0	0	0	0
	point72	72	3360	45	69	45	35	45	0	0	0	0
	point73	73	3360	45	69	45	35	45	0	0	0	0
	point74	74	3360	45	69	45	35	45	0	0	0	0
	point75	75	3360	45	69	45	35	45	0	0	0	0
	point76	76										
I-15 North	point603	603	7781	65	160	65	80	65	0	0	0	0
	point604	604	7781	65	160	65	80	65	0	0	0	0
	point605	605	7781	65	160	65	80	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**SDSU West Campus**

	point606	606	7781	65	160	65	80	65	0	0	0	0
	point607	607	7781	65	160	65	80	65	0	0	0	0
	point608	608	7781	65	160	65	80	65	0	0	0	0
	point609	609	7781	65	160	65	80	65	0	0	0	0
	point610	610	7781	65	160	65	80	65	0	0	0	0
	point611	611	7781	65	160	65	80	65	0	0	0	0
	point612	612	7781	65	160	65	80	65	0	0	0	0
	point613	613	7781	65	160	65	80	65	0	0	0	0
	point614	614	7781	65	160	65	80	65	0	0	0	0
	point615	615	7781	65	160	65	80	65	0	0	0	0
	point616	616	7781	65	160	65	80	65	0	0	0	0
	point617	617	7781	65	160	65	80	65	0	0	0	0
	point618	618	7781	65	160	65	80	65	0	0	0	0
	point619	619	7781	65	160	65	80	65	0	0	0	0
	point620	620	7781	65	160	65	80	65	0	0	0	0
	point621	621										

INPUT: RECEIVERS

SDSU West Campus

							27 February 2019				
Dudek							TNM 2.5				
CB											
INPUT: RECEIVERS											
PROJECT/CONTRACT:		SDSU West Campus									
RUN:		Existing									
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST9	1	1	5,119.4	6,645.4	250.00	4.92	52.50	66	10.0	8.0	Y
ST10	2	1	6,573.6	5,525.0	200.00	4.92	52.80	66	10.0	8.0	Y
ST1	3	1	8,338.7	3,886.4	0.00	4.92	77.40	66	10.0	8.0	Y
ST2a	4	1	8,632.8	2,814.1	0.00	4.92	72.20	66	10.0	8.0	Y
ST8	5	1	9,471.6	2,808.0	0.00	4.92	67.00	66	10.0	8.0	Y
ST3	6	1	4,776.5	4,099.3	0.00	4.92	64.90	66	10.0	8.0	Y
ST5	8	1	4,729.6	3,692.2	0.00	4.92	53.70	66	10.0	8.0	Y
ST4	9	1	8,367.3	347.6	150.00	4.92	69.10	66	10.0	8.0	Y
ST7	10	1	4,336.6	1,707.8	0.00	4.92	59.00	66	10.0	8.0	Y
ST6	11	1	5,594.8	1,170.3	0.00	4.92	65.10	66	10.0	8.0	Y

INPUT: BUILDING ROWS

SDSU West Campus

Dudek								
CB								27 February 2019
								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	SDSU West Campus							
RUN:	Existing							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building2-Building1	30.00	80	5	4,686.0	3,683.4	0.00		
			6	4,513.6	3,879.2	0.00		
			1	4,511.5	3,881.2	0.00		
			2	4,596.4	3,958.3	0.00		
			3	4,777.9	3,758.9	0.00		
			4	4,689.1	3,681.0	0.00		
Building10	20.00	50	29	6,423.0	5,510.9	200.00		
			30	6,480.1	5,374.0	200.00		
			31	6,537.1	5,323.8	200.00		
			32	6,614.7	5,328.3	200.00		
			33	6,686.6	5,339.7	200.00		
			34	6,712.8	5,358.0	200.00		
			35	6,691.1	5,443.5	200.00		
			36	6,682.0	5,510.9	200.00		
			37	6,674.0	5,539.4	200.00		
Building11	20.00	80	47	5,448.5	6,823.5	250.00		
			48	5,254.6	6,581.5	250.00		
			49	5,342.4	6,530.2	250.00		
			50	5,513.6	6,774.4	250.00		
Building12	20.00	80	51	5,131.6	6,657.7	250.00		
			52	5,197.3	6,592.4	250.00		
			53	5,445.6	6,881.1	250.00		
			54	5,196.4	7,337.2	250.00		
			55	5,118.2	7,293.4	250.00		

INPUT: BUILDING ROWS**SDSU West Campus**

			56	5,316.7	6,898.3	250.00
			57	5,132.0	6,658.6	250.00

INPUT: GROUND ZONES

SDSU West Campus

Dudek				27 February 2019	
CB				TNM 2.5	
INPUT: GROUND ZONES					
PROJECT/CONTRACT:		SDSU West Campus			
RUN:		Existing			
Ground Zone				Points	
Name	Type	Flow	No.	Coordinates	
		Resistivity		X	Y
		cgs rayls		ft	ft
Ground Zone1	Loose Soil	500	1	4,727.0	1,193.7
			2	6,088.3	1,805.5
			3	6,380.8	1,386.8
			4	5,170.6	620.1
Ground Zone2	Loose Soil	500	5	5,116.5	6,663.9
			6	5,298.1	6,895.3
			7	5,101.2	7,315.9
			8	5,005.6	7,233.7
			9	5,129.9	6,977.5
			10	5,041.9	6,748.0

RESULTS: SOUND LEVELS

SDSU West Campus

Dudek													22 February 2019	
CB													TNM 2.5	
													Calculated with TNM 2.5	
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:			SDSU West Campus											
RUN:			Horizon Year No Project											
BARRIER DESIGN:			INPUT HEIGHTS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.	
ATMOSPHERICS:			68 deg F, 50% RH											
Receiver														
Name		No.	#DUs	Existing	No Barrier			With Barrier						
				LAeq1h	LAeq1h		Increase over existing		Type	Calculated	Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated minus Goal	
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
ST9		1	1	52.5	56.4	66	3.9	10	----	56.4	0.0	8	-8.0	
ST10		2	1	52.8	56.2	66	3.4	10	----	56.2	0.0	8	-8.0	
ST1		3	1	77.4	79.0	66	1.6	10	Snd Lvl	79.0	0.0	8	-8.0	
ST2a		4	1	72.2	75.7	66	3.5	10	Snd Lvl	75.7	0.0	8	-8.0	
ST8		5	1	67.0	68.0	66	1.0	10	Snd Lvl	68.0	0.0	8	-8.0	
ST3		6	1	64.9	63.5	66	-1.4	10	----	63.5	0.0	8	-8.0	
ST5		8	1	53.7	57.0	66	3.3	10	----	57.0	0.0	8	-8.0	
ST4		9	1	69.1	71.2	66	2.1	10	Snd Lvl	71.2	0.0	8	-8.0	
ST7		10	1	59.0	60.2	66	1.2	10	----	60.2	0.0	8	-8.0	
ST6		11	1	65.1	68.9	66	3.8	10	Snd Lvl	68.9	0.0	8	-8.0	
Dwelling Units			# DUs	Noise Reduction										
				Min	Avg	Max								
				dB	dB	dB								
All Selected			10	0.0	0.0	0.0								
All Impacted			5	0.0	0.0	0.0								
All that meet NR Goal			0	0.0	0.0	0.0								

INPUT: ROADWAYS

SDSU West Campus

Dudek CB				22 February 2019 TNM 2.5							
INPUT: ROADWAYS				SDSU West Campus			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				SDSU West Campus							
RUN:				Horizon No Project							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	On Struct?
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	
	ft			ft	ft	ft		mph	%		
South Mission Village Dr 26	30.0	point9	9	6,292.3	4,593.3	0.00				Average	
		point8	8	6,222.5	5,085.5	50.00				Average	
		point7	7	6,196.8	5,331.5	60.00				Average	
		point6	6	6,141.7	5,651.1	70.00				Average	
		point5	5	6,024.1	5,904.5	120.00				Average	
		point4	4	5,840.5	6,253.3	150.00				Average	
		point3	3	5,642.2	6,613.3	200.00				Average	
		point2	2	5,451.2	6,929.1	240.00				Average	
		point1	1	5,234.5	7,325.7	240.00					
North Mission Village Dr	30.0	point15	15	6,329.0	4,615.4	0.00				Average	
		point16	16	6,284.9	4,909.2	0.00				Average	
		point17	17	6,248.2	5,265.4	50.00				Average	
		point18	18	6,207.8	5,478.4	60.00				Average	
		point19	19	6,174.7	5,636.4	63.00				Average	
		point535	535	6,049.9	5,937.5	120.00				Average	
		point20	20	5,866.2	6,257.0	200.00				Average	
		point21	21	5,701.0	6,561.8	200.00				Average	
		point22	22	5,506.3	6,899.7	240.00				Average	
		point23	23	5,289.7	7,296.3	240.00				Average	
		point537	537	5,263.9	7,333.1	240.00					
westFriars (W of Int 9)	40.0	point58	58	6,262.9	4,596.3	20.00				Average	
		point59	59	6,116.0	4,533.9	20.00				Average	
		point60	60	5,965.4	4,482.4	20.00				Average	
		point61	61	5,840.5	4,467.7	20.00				Average	
		point62	62	5,495.3	4,427.4	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point555	555	5,263.9	4,412.7	20.00				Average	
		point556	556	5,047.3	4,353.9	20.00				Average	
		point557	557	4,874.6	4,287.8	20.00				Average	
		point558	558	4,628.6	4,129.9	20.00				Average	
		point559	559	4,426.6	4,030.7	20.00				Average	
		point560	560	4,261.4	3,924.2	20.00				Average	
		point561	561	4,055.7	3,744.3	20.00				Average	
		point562	562	3,945.5	3,641.4	20.00					
17 West San Diego Mission Rd	20.0	point77	77	6,442.0	4,400.7	0.00				Average	
		point78	78	6,666.0	4,540.3	0.00				Average	
		point79	79	6,816.6	4,606.3	0.00				Average	
		point80	80	6,970.9	4,676.1	5.00				Average	
		point81	81	7,121.5	4,672.4	10.00				Average	
		point82	82	7,437.3	4,599.0	15.00				Average	
		point83	83	7,955.1	4,444.8	20.00				Average	Y
		point84	84	8,370.1	4,319.9	15.00				Average	
		point85	85	8,730.0	4,213.4	10.00				Average	
		point86	86	9,078.9	4,059.2	5.00				Average	
		point87	87	9,372.7	3,941.6	0.00					
17 East San Diego Mission Rd	20.0	point88	88	6,456.7	4,386.0	0.00				Average	
		point89	89	6,735.8	4,536.6	0.00				Average	
		point90	90	6,952.5	4,632.1	5.00				Average	
		point91	91	7,077.4	4,650.4	10.00				Average	
		point92	92	7,235.3	4,628.4	20.00				Average	Y
		point93	93	7,991.8	4,408.0	20.00				Average	Y
		point94	94	8,557.4	4,239.1	10.00				Average	
		point95	95	9,005.5	4,066.5	5.00				Average	
		point96	96	9,339.7	3,923.3	0.00					
22 North Ward Rd	30.0	point97	97	9,400.6	3,882.1	0.00				Average	
		point98	98	9,386.0	2,130.3	0.00					
22 South Ward Row	30.0	point102	102	9,367.6	3,893.1	0.00				Average	
		point103	103	9,363.9	2,119.3	0.00					
16 South Fenton Pkwy (S of Int 9)	30.0	point242	242	4,260.1	1,609.0	0.00				Average	
		point243	243	4,157.3	1,686.2	0.00				Average	
		point244	244	4,076.5	1,733.9	0.00				Average	
		point245	245	3,999.4	1,752.3	0.00				Average	
		point246	246	3,900.2	1,774.3	0.00				Average	
		point247	247	3,782.7	1,800.0	0.00				Average	
		point248	248	3,551.3	1,866.1	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point249	249	3,426.5	1,895.5	0.00				Average
		point250	250	3,294.3	1,980.0	0.00				Average
		point251	251	3,202.5	2,057.1	0.00				Average
		point252	252	3,081.3	2,182.0	0.00				Average
		point253	253	2,805.8	2,472.1	0.00				
16 North Fenton Pkwy (S of Int 9)	30.0	point255	255	2,842.6	2,501.5	0.00				Average
		point256	256	3,283.3	2,024.0	0.00				Average
		point257	257	3,393.4	1,969.0	0.00				Average
		point258	258	3,624.8	1,888.2	0.00				Average
		point259	259	3,859.8	1,840.4	0.00				Average
		point260	260	4,032.4	1,800.0	0.00				Average
		point261	261	4,252.8	1,645.8	0.00				
South Fenton Pkwy (N of Int 9)	30.0	point268	268	2,721.4	2,549.2	0.00				Average
		point269	269	2,523.0	2,776.9	0.00				Average
		point270	270	2,431.2	2,912.8	0.00				Average
		point271	271	2,310.0	3,089.1	0.00				Average
		point272	272	2,240.3	3,228.6	0.00				Average
		point273	273	2,196.2	3,404.9	0.00				Average
		point274	274	2,188.8	3,794.2	0.00				
North Fenton Pkwy (N of Int 9)	30.0	point275	275	2,758.1	2,578.6	0.00				Average
		point276	276	2,548.8	2,846.7	0.00				Average
		point277	277	2,427.6	3,000.9	0.00				Average
		point278	278	2,343.1	3,144.2	0.00				Average
		point279	279	2,295.3	3,232.3	0.00				Average
		point280	280	2,251.3	3,342.5	0.00				Average
		point281	281	2,229.2	3,511.4	0.00				Average
		point282	282	2,225.6	3,753.8	0.00				Average
		point571	571	2,229.2	3,801.5	0.00				
North Northside Dr	12.0	point283	283	3,900.2	3,642.2	0.00				Average
		point284	284	3,735.0	3,818.4	0.00				Average
		point285	285	3,632.2	3,943.3	0.00				Average
		point286	286	3,547.7	3,987.4	0.00				Average
		point287	287	3,444.8	4,075.5	0.00				Average
		point288	288	3,286.9	4,138.0	0.00				Average
		point289	289	3,015.2	4,251.8	0.00				
South Northside Dr	12.0	point291	291	3,870.9	3,606.9	0.00				Average
		point292	292	3,628.5	3,904.4	0.00				Average
		point293	293	3,529.3	3,981.5	0.00				Average
		point294	294	3,437.5	4,040.3	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point295	295	3,305.3	4,099.0	0.00				Average	
		point296	296	3,103.3	4,190.8	0.00				Average	
		point297	297	2,996.8	4,238.6	0.00					
15 West Rio San Diego Dr	30.0	point299	299	1,806.9	609.4	0.00				Average	
		point300	300	2,005.2	675.5	0.00				Average	
		point301	301	2,141.1	741.6	0.00				Average	
		point302	302	2,313.7	888.5	0.00				Average	
		point303	303	2,493.7	1,094.2	0.00				Average	
		point304	304	2,647.9	1,263.1	0.00				Average	
		point305	305	2,835.2	1,509.2	0.00				Average	
		point306	306	2,941.7	1,608.3	0.00				Average	
		point307	307	3,083.5	1,746.2	0.00				Average	
		point577	577	3,261.1	1,998.8	0.00					
15 East Rio San Diego Dr	30.0	point308	308	1,854.6	572.6	0.00				Average	
		point309	309	2,097.0	675.5	0.00				Average	
		point310	310	2,295.3	829.7	0.00				Average	
		point311	311	2,490.0	1,024.4	0.00				Average	
		point312	312	2,692.0	1,263.1	0.00				Average	
		point313	313	2,853.6	1,479.8	0.00				Average	
		point314	314	2,952.7	1,597.3	0.00				Average	
		point315	315	3,084.9	1,711.1	0.00				Average	
		point578	578	3,279.6	1,957.2	0.00					
I15 South	90.0	point316	316	8,797.6	-298.7	75.00				Average	
		point318	318	8,904.1	142.0	60.00				Average	
		point319	319	8,944.5	443.1	40.00				Average	
		point320	320	8,933.5	825.1	20.00				Average	
		point321	321	8,834.3	1,163.0	20.00				Average	Y
		point 322	322	8,562.5	2,121.5	20.00				Average	Y
		point323	323	8,367.9	2,841.3	0.00				Average	
		point324	324	8,118.2	3,763.1	0.00				Average	
		point325	325	8,092.5	4,325.0	0.00				Average	
		point326	326	8,184.3	4,964.0	0.00				Average	
		point327	327	8,290.8	5,313.0	0.00				Average	
		point328	328	8,698.4	6,613.0	0.00				Average	
		point329	329	8,812.3	7,064.8	15.00				Average	
		point330	330	8,834.3	7,472.4	30.00					
I8 West	90.0	point354	354	12,786.7	1,868.8	20.00				Average	
		point355	355	12,470.9	1,791.7	20.00				Average	
		point356	356	12,235.8	1,758.7	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point357	357	11,839.2	1,685.2	20.00				Average	
		point358	358	11,350.8	1,641.1	20.00				Average	
		point359	359	10,715.4	1,589.7	20.00				Average	
		point360	360	9,870.7	1,600.7	20.00				Average	
		point361	361	9,055.4	1,571.4	20.00				Average	
		point362	362	8,122.6	1,560.3	15.00				Average	
		point363	363	7,582.7	1,534.6	10.00				Average	
		point364	364	7,318.3	1,505.2	10.00				Average	
		point365	365	6,793.1	1,373.0	10.00				Average	
		point548	548	6,389.1	1,193.1	10.00				Average	
		point549	549	5,930.1	906.6	10.00				Average	
		point550	550	5,397.6	521.0	10.00				Average	
		point551	551	4,552.9	-44.6	10.00				Average	
		point552	552	4,071.8	-312.7	10.00					
18 East	90.0	point366	366	12,786.7	1,772.6	20.00				Average	
		point367	367	11,949.4	1,629.4	20.00				Average	
		point368	368	11,163.5	1,567.0	20.00				Average	
		point369	369	9,481.4	1,522.9	20.00				Average	
		point370	370	8,691.8	1,497.2	20.00				Average	
		point371	371	7,905.9	1,486.2	20.00				Average	
		point 372	372	7,700.2	1,486.2	25.00				Average	
		point373	373	7,593.7	1,467.8	25.00				Average	
		point374	374	7,193.4	1,372.3	25.00				Average	
		point375	375	6,730.7	1,203.4	25.00				Average	
		point376	376	6,264.3	950.0	25.00				Average	
		point377	377	5,287.4	303.6	25.00				Average	
		point378	378	4,472.1	-203.2	25.00				Average	
		point547	547	4,244.4	-324.4	25.00					
19 South Rancho Mission Rd (S friars)	30.0	point379	379	9,376.4	3,982.0	0.00				Average	
		point380	380	9,387.4	4,239.1	0.00				Average	
		point381	381	9,468.2	4,345.6	0.00				Average	
		point382	382	9,541.7	4,419.1	0.00				Average	
		point383	383	9,684.9	4,448.4	0.00				Average	
		point384	384	9,897.9	4,496.2	0.00				Average	
		point385	385	10,015.4	4,558.6	0.00				Average	
		point386	386	10,085.2	4,698.2	0.00				Average	
		point387	387	10,096.2	4,815.7	0.00				Average	
		point388	388	10,081.5	4,889.1	0.00				Average	
		point572	572	9,919.9	5,531.8	0.00					

INPUT: ROADWAYS

SDSU West Campus

19 North Mission Road (S of Friars)	30.0	point389	389	9,398.4	3,974.7	0.00				Average
		point390	390	9,416.8	4,231.8	0.00				Average
		point391	391	9,493.9	4,349.3	0.00				Average
		point392	392	9,574.7	4,393.3	0.00				Average
		point393	393	9,780.4	4,433.7	0.00				Average
		point394	394	9,978.7	4,499.8	0.00				Average
		point395	395	10,044.8	4,547.6	0.00				Average
		point396	396	10,107.2	4,694.5	0.00				Average
		point397	397	10,114.6	4,808.3	0.00				Average
		point398	398	10,088.9	4,922.2	0.00				Average
		point399	399	9,956.7	5,546.5	0.00				
West San Diego Mission Rd 18	20.0	point401	401	9,424.1	3,919.6	0.00				Average
		point402	402	10,026.4	3,710.2	0.00				Average
		point403	403	10,360.6	3,603.7	0.00				Average
		point404	404	10,665.5	3,522.9	0.00				Average
		point405	405	10,771.9	3,500.9	0.00				Average
		point406	406	11,209.0	3,453.2	0.00				Average
		point407	407	11,359.6	3,475.2	0.00				Average
		point408	408	11,473.4	3,563.4	0.00				Average
		point409	409	11,627.7	3,721.3	0.00				Average
		point410	410	11,759.9	3,860.8	0.00				Average
		point575	575	11,848.0	3,926.9	0.00				Average
		point576	576	12,127.1	3,971.0	0.00				
East San Diego Mission Rd 18	20.0	point424	424	9,424.1	3,886.5	0.00				Average
		point425	425	10,573.7	3,508.3	0.00				Average
		point426	426	10,889.5	3,449.5	0.00				Average
		point427	427	11,128.2	3,431.1	0.00				Average
		point428	428	11,304.5	3,420.1	0.00				Average
		point429	429	11,407.3	3,464.2	0.00				Average
		point430	430	11,550.5	3,574.4	0.00				Average
		point431	431	11,675.4	3,728.6	0.00				Average
		point432	432	11,800.3	3,849.8	0.00				Average
		point433	433	11,881.1	3,915.9	0.00				Average
		point434	434	12,116.1	3,934.3	0.00				
South Fairmount Ave (N of Int 25)	25.0	point436	436	12,145.5	3,989.4	0.00				Average
		point437	437	12,156.5	5,160.9	0.00				
North Fairmount Ave (N of Int 25)	25.0	point438	438	12,163.8	4,015.1	0.00				Average
		point439	439	12,178.5	5,182.9	0.00				
23 South Fairmont Ave (S of Int 25)	25.0	point440	440	12,147.7	3,926.2	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point441	441	12,144.0	2,644.5	0.00				Average
		point442	442	12,151.4	2,596.7	0.00				Average
		point443	443	12,202.8	2,519.6	0.00				
23 North Fairmount Ave (S of Int 25)	25.0	point444	444	12,169.7	3,915.2	0.00				Average
		point445	445	12,169.7	2,732.6	0.00				Average
		point446	446	12,177.1	2,644.5	0.00				Average
		point574	574	12,191.8	2,574.7	0.00				
South Mission Gorge Rd	30.0	point462	462	12,136.7	2,064.2	0.00				Average
		point463	463	12,133.0	2,313.9	0.00				Average
		point464	464	12,210.1	2,527.0	0.00				Average
		point465	465	12,353.3	2,710.6	0.00				Average
		point466	466	12,500.3	2,824.4	0.00				Average
		point467	467	12,794.1	2,997.0	0.00				
North Mission Gorge Rd	30.0	point469	469	12,199.1	2,115.6	0.00				Average
		point470	470	12,195.4	2,317.6	0.00				Average
		point471	471	12,257.9	2,504.9	0.00				Average
		point472	472	12,324.0	2,626.1	0.00				Average
		point473	473	12,408.4	2,725.3	0.00				Average
		point474	474	12,533.3	2,809.7	0.00				Average
		point475	475	12,790.4	2,953.0	0.00				
West Camino Del Rio (E of Int 27)	30.0	point528	528	9,396.9	2,075.2	0.00				Average
		point527	527	9,745.9	2,027.5	0.00				Average
		point526	526	10,065.4	1,972.4	0.00				Average
		point105	105	10,252.7	1,910.0	0.00				Average
		point447	447	10,539.1	1,865.9	0.00				Average
		point448	448	10,913.7	1,869.6	0.00				Average
		point449	449	11,299.3	1,843.9	0.00				Average
		point450	450	11,508.7	1,843.9	0.00				Average
		point451	451	11,651.9	1,854.9	0.00				Average
		point452	452	11,791.5	1,921.0	0.00				Average
		point453	453	11,949.4	2,027.5	0.00				Average
		point454	454	12,096.3	2,137.7	0.00				
East Camino Del Rio (E of Int 27)	30.0	point461	461	9,419.0	2,023.8	0.00				Average
		point460	460	9,786.3	1,972.4	0.00				Average
		point459	459	10,047.0	1,924.6	0.00				Average
		point458	458	10,300.4	1,858.6	0.00				Average
		point457	457	10,564.8	1,851.2	0.00				Average
		point456	456	11,170.8	1,832.8	0.00				Average
		point455	455	11,490.3	1,818.1	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point190	190	11,707.0	1,829.2	0.00				Average
		point192	192	12,063.2	2,086.3	0.00				
South Stadium Way	45.0	point478	478	4,605.4	4,060.7	0.00				Average
		point479	479	4,733.9	4,001.9	0.00				Average
		point480	480	4,807.3	3,935.8	0.00				Average
		point481	481	4,858.8	3,814.6	0.00				Average
		point482	482	4,910.2	3,311.5	0.00				Average
		point483	483	4,965.3	2,617.4	0.00				Average
		point569	569	5,013.0	2,117.9	0.00				
North Stadium Way	45.0	point484	484	4,954.3	4,238.5	0.00				Average
		point485	485	4,891.8	4,161.3	0.00				Average
		point486	486	4,862.4	4,109.9	0.00				Average
		point487	487	4,888.2	3,849.1	0.00				Average
		point488	488	4,891.8	3,687.6	0.00				Average
		point570	570	5,042.4	2,137.7	0.00				
West Stadium Way (W of Int 26)	20.0	point489	489	9,334.5	2,728.9	0.00				Average
		point490	490	9,239.0	2,688.5	0.00				Average
		point491	491	9,169.3	2,648.1	0.00				Average
		point492	492	8,912.2	2,640.8	0.00				Average
		point493	493	8,824.0	2,662.8	0.00				Average
		point494	494	8,735.9	2,681.2	0.00				Average
		point495	495	8,633.1	2,688.5	0.00				Average
		point496	496	8,570.6	2,677.5	0.00				Average
		point497	497	8,276.8	2,706.9	0.00				Average
		point498	498	8,129.9	2,747.3	0.00				
East Stadium Way (W of Int 26)	20.0	point499	499	9,334.5	2,703.2	0.00				Average
		point500	500	9,224.3	2,655.5	0.00				Average
		point501	501	9,169.3	2,629.8	0.00				Average
		point502	502	8,912.2	2,629.8	0.00				Average
		point503	503	8,842.4	2,637.1	0.00				Average
		point504	504	8,695.5	2,666.5	0.00				Average
		point505	505	8,592.7	2,662.8	0.00				Average
		point506	506	8,387.0	2,651.8	0.00				Average
		point507	507	8,273.2	2,666.5	0.00				Average
		point573	573	8,152.0	2,710.6	0.00				
5 West Friars- (W of Int 10)	40.0	point509	509	3,873.5	3,585.6	20.00				Average
		point32	32	2,797.5	2,575.7	20.00				
5 East Friars (W of Int 10)	40.0	point510	510	3,928.6	3,545.2	20.00				Average
		point63	63	2,834.2	2,524.2	20.00				

INPUT: ROADWAYS

SDSU West Campus

8 West Friars (Mission to 15)	40.0	point523	523	6,351.7	4,630.6	0.00				Average	
		point40	40	7,189.0	4,906.0	10.00				Average	
		point41	41	7,850.1	5,078.6	20.00				Average	Y
		point600	600	8,165.9	5,163.1	20.00					
8 East Friars (Mission to 15)	40.0	point524	524	6,353.9	4,582.8	0.00				Average	
		point521	521	6,882.7	4,759.1	5.00				Average	
		point522	522	7,169.2	4,858.3	10.00				Average	
		point71	71	7,606.2	4,972.1	20.00				Average	Y
		point599	599	8,228.7	5,142.9	15.00					
West Camino Del Rio (W of Int 27)	20.0	point529	529	2,684.6	-317.1	0.00				Average	
		point106	106	2,901.3	-214.2	0.00				Average	
		point107	107	3,235.5	-177.5	0.00				Average	
		point108	108	3,525.7	-111.4	0.00				Average	
		point109	109	3,698.3	-1.2	0.00				Average	
		point110	110	3,944.3	233.8	0.00				Average	
		point111	111	4,164.7	457.8	0.00				Average	
		point112	112	4,370.3	656.2	0.00				Average	
		point113	113	4,587.0	839.8	0.00				Average	
		point114	114	4,704.5	913.2	0.00				Average	
		point115	115	4,829.4	920.6	0.00				Average	
		point116	116	4,902.9	869.2	0.00				Average	
		point117	117	5,009.4	714.9	0.00				Average	
		point118	118	5,090.2	615.7	0.00				Average	
		point119	119	5,204.0	586.4	0.00				Average	
		point120	120	5,354.6	652.5	0.00				Average	
		point121	121	5,696.1	909.5	0.00				Average	
		point122	122	6,151.5	1,232.7	0.00				Average	
		point123	123	6,566.5	1,420.0	0.00				Average	
		point124	124	6,871.3	1,522.9	0.00				Average	
		point125	125	7,631.6	1,699.1	0.00				Average	
		point126	126	7,778.4	1,739.6	0.00				Average	
		point127	127	7,892.3	1,827.7	0.00				Average	
		point128	128	8,156.7	2,154.6	0.00				Average	
		point129	129	8,300.0	2,253.7	0.00				Average	
		point130	130	8,615.8	2,319.8	0.00				Average	
		point131	131	8,876.5	2,301.4	0.00				Average	
		point132	132	9,185.0	2,117.8	0.00				Average	
		point133	133	9,311.7	2,070.1	0.00					
East Camino Del Rio (W of Int 27)	20.0	point530	530	2,726.1	-320.7	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point193	193	2,873.0	-265.6	0.00				Average	
		point194	194	3,030.9	-236.3	0.00				Average	
		point195	195	3,229.3	-203.2	0.00				Average	
		point196	196	3,493.7	-166.5	0.00				Average	
		point197	197	3,651.6	-63.6	0.00				Average	
		point198	198	4,569.8	799.4	0.00				Average	
		point199	199	4,705.6	880.2	0.00				Average	
		point200	200	4,782.7	898.6	0.00				Average	
		point201	201	4,841.5	891.2	0.00				Average	
		point202	202	4,911.3	828.8	0.00				Average	
		point203	203	5,010.5	678.2	0.00				Average	
		point204	204	5,069.2	586.4	0.00				Average	
		point205	205	5,227.1	560.7	0.00				Average	
		point206	206	5,465.8	703.9	0.00				Average	
		point207	207	5,814.7	964.7	0.00				Average	
		point208	208	6,152.6	1,207.1	0.00				Average	
		point209	209	6,420.7	1,342.9	0.00				Average	
		point210	210	6,619.0	1,431.1	0.00				Average	
		point211	211	6,931.2	1,522.9	0.00				Average	
		point212	212	7,379.2	1,625.7	0.00				Average	
		point213	213	7,742.8	1,706.5	0.00				Average	
		point214	214	7,864.0	1,761.6	0.00				Average	
		point215	215	8,033.0	1,967.3	0.00				Average	
		point216	216	8,201.9	2,180.2	0.00				Average	
		point217	217	8,315.7	2,239.0	0.00				Average	
		point218	218	8,697.7	2,301.4	0.00				Average	
		point219	219	8,851.9	2,275.8	0.00				Average	
		point220	220	9,160.4	2,088.5	0.00				Average	
		point221	221	9,296.3	2,040.7	0.00					
West Twain Ave	20.0	point533	533	12,169.7	3,967.3	0.00				Average	
		point411	411	12,779.4	3,956.3	0.00					
East Twain Ave	20.0	point534	534	12,180.7	3,941.6	0.00				Average	
		point532	532	12,783.0	3,923.3	0.00					
East Friars (W of Int 9)	40.0	point538	538	6,270.2	4,544.9	20.00				Average	
		point539	539	6,057.2	4,464.1	20.00				Average	
		point540	540	5,925.0	4,427.4	20.00				Average	
		point541	541	5,737.7	4,409.0	20.00				Average	
		point542	542	5,388.8	4,383.3	20.00				Average	
		point543	543	5,230.9	4,357.6	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point563	563	5,032.6	4,295.1	20.00				Average	
		point564	564	4,830.6	4,203.3	20.00				Average	
		point565	565	4,595.5	4,067.5	20.00				Average	
		point566	566	4,349.5	3,905.8	20.00				Average	
		point567	567	4,220.9	3,803.0	20.00				Average	
		point568	568	3,985.9	3,590.0	20.00					
4 west Friars east of 805	40.0	point579	579	2,736.1	2,516.1	0.00				Average	
		point580	580	2,350.4	2,126.9	0.00				Average	
		point581	581	2,130.1	1,935.9	0.00				Average	
		point582	582	1,924.4	1,767.0	0.00				Average	
		point583	583	1,645.3	1,524.6	0.00					
4 East Friars east of 805	40.0	point584	584	2,776.4	2,475.8	0.00				Average	
		point585	585	2,508.3	2,189.3	0.00				Average	
		point586	586	2,321.1	2,035.0	0.00				Average	
		point587	587	2,152.1	1,866.1	0.00				Average	
		point588	588	1,961.2	1,715.6	0.00				Average	
		point589	589	1,685.7	1,491.5	0.00					
North River Run Dr	12.0	point590	590	2,471.7	1,092.6	0.00				Average	
		point591	591	2,273.7	1,256.6	0.00				Average	
		point592	592	2,157.8	1,399.4	0.00				Average	
		point593	593	1,962.7	1,696.4	0.00					
South River Run Dr	12.0	point594	594	2,478.7	1,132.2	0.00				Average	
		point595	595	2,319.0	1,259.4	0.00				Average	
		point596	596	2,234.1	1,354.2	0.00				Average	
		point597	597	2,101.2	1,528.1	0.00				Average	
		point598	598	1,995.2	1,707.7	0.00					
9 West Friars (15 to Rancho Mission)	40.0	point601	601	8,165.9	5,163.1	20.00				Average	Y
		point42	42	8,481.7	5,247.6	20.00				Average	
		point43	43	9,190.6	5,438.6	10.00				Average	
		point44	44	9,583.5	5,541.4	5.00				Average	
		point45	45	9,910.4	5,629.5	0.00				Average	
		point46	46	10,233.5	5,721.3	0.00				Average	
		point553	553	10,431.9	5,787.4	0.00				Average	Y
		point554	554	11,004.8	5,985.8	0.00					
9 East Friars (15 to Rancho Mission)	40.0	point602	602	8,228.7	5,142.9	15.00				Average	Y
		point72	72	8,851.2	5,313.7	10.00				Average	
		point73	73	9,578.4	5,490.0	10.00				Average	
		point74	74	10,155.0	5,636.9	10.00				Average	
		point75	75	10,738.9	5,842.5	5.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point76	76	11,010.7	5,930.7	0.00					
I-15 North	90.0	point603	603	8,885.7	-269.3	60.00				Average	
		point604	604	9,006.9	222.8	50.00				Average	
		point605	605	9,010.6	527.6	40.00				Average	
		point606	606	8,984.9	902.2	30.00				Average	
		point607	607	8,915.1	1,225.4	30.00				Average	Y
		point608	608	8,610.3	2,253.7	20.00				Average	Y
		point609	609	8,503.8	2,617.3	20.00				Average	Y
		point610	610	8,305.4	3,348.1	10.00				Average	
		point611	611	8,235.7	3,649.3	0.00				Average	
		point612	612	8,187.9	3,895.3	0.00				Average	
		point613	613	8,169.6	4,185.5	0.00				Average	
		point614	614	8,180.6	4,505.0	0.00				Average	
		point615	615	8,221.0	4,776.7	10.00				Average	
		point616	616	8,265.1	4,975.1	10.00				Average	
		point617	617	8,613.9	6,051.1	10.00				Average	
		point618	618	8,819.6	6,701.2	20.00				Average	
		point619	619	8,896.8	7,046.4	30.00				Average	Y
		point620	620	8,922.4	7,288.8	40.00				Average	Y
		point621	621	8,922.4	7,476.1	50.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

Dudek													
CB													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	SDSU West Campus												
RUN:	Horizon Year No Project												
Roadway	Points												
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles		
			Autos		V	S	V	S	V	S	V	S	
			V	S	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
South Mission Village Dr 26	point9	9	834	45	17	45	9	45	0	0	0	0	
	point8	8	834	45	17	45	9	45	0	0	0	0	
	point7	7	834	45	17	45	9	45	0	0	0	0	
	point6	6	834	45	17	45	9	45	0	0	0	0	
	point5	5	834	45	17	45	9	45	0	0	0	0	
	point4	4	834	45	17	45	9	45	0	0	0	0	
	point3	3	834	45	17	45	9	45	0	0	0	0	
	point2	2	834	45	17	45	9	45	0	0	0	0	
	point1	1											
North Mission Village Dr	point15	15	834	45	17	45	9	45	0	0	0	0	
	point16	16	834	45	17	45	9	45	0	0	0	0	
	point17	17	834	45	17	45	9	45	0	0	0	0	
	point18	18	834	45	17	45	9	45	0	0	0	0	
	point19	19	834	45	17	45	9	45	0	0	0	0	
	point535	535	834	45	17	45	9	45	0	0	0	0	
	point20	20	834	45	17	45	9	45	0	0	0	0	
	point21	21	834	45	17	45	9	45	0	0	0	0	
	point22	22	834	45	17	45	9	45	0	0	0	0	
	point23	23	834	45	17	45	9	45	0	0	0	0	
	point537	537											
westFriars (W of Int 9)	point58	58	2641	45	54	45	27	45	0	0	0	0	
	point59	59	2641	45	54	45	27	45	0	0	0	0	
	point60	60	2641	45	54	45	27	45	0	0	0	0	

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point61	61	2641	45	54	45	27	45	0	0	0	0
	point62	62	2641	45	54	45	27	45	0	0	0	0
	point555	555	2641	45	54	45	27	45	0	0	0	0
	point556	556	2641	45	54	45	27	45	0	0	0	0
	point557	557	2641	45	54	45	27	45	0	0	0	0
	point558	558	2641	45	54	45	27	45	0	0	0	0
	point559	559	2641	45	54	45	27	45	0	0	0	0
	point560	560	2641	45	54	45	27	45	0	0	0	0
	point561	561	2641	45	54	45	27	45	0	0	0	0
	point562	562										
17 West San Diego Mission Rd	point77	77	449	45	9	45	5	45	0	0	0	0
	point78	78	449	45	9	45	5	45	0	0	0	0
	point79	79	449	45	9	45	5	45	0	0	0	0
	point80	80	449	45	9	45	5	45	0	0	0	0
	point81	81	449	45	9	45	5	45	0	0	0	0
	point82	82	449	45	9	45	5	45	0	0	0	0
	point83	83	449	45	9	45	5	45	0	0	0	0
	point84	84	449	45	9	45	5	45	0	0	0	0
	point85	85	449	45	9	45	5	45	0	0	0	0
	point86	86	449	45	9	45	5	45	0	0	0	0
	point87	87										
17 East San Diego Mission Rd	point88	88	449	45	9	45	5	45	0	0	0	0
	point89	89	449	45	9	45	5	45	0	0	0	0
	point90	90	449	45	9	45	5	45	0	0	0	0
	point91	91	449	45	9	45	5	45	0	0	0	0
	point92	92	449	45	9	45	5	45	0	0	0	0
	point93	93	449	45	9	45	5	45	0	0	0	0
	point94	94	449	45	9	45	5	45	0	0	0	0
	point95	95	449	45	9	45	5	45	0	0	0	0
	point96	96										
22 North Ward Rd	point97	97	584	45	12	45	8	45	0	0	0	0
	point98	98										
22 South Ward Row	point102	102	584	45	12	45	8	45	0	0	0	0
	point103	103										
16 South Fenton Pkwy (S of Int 9)	point242	242	303	30	6	30	3	30	0	0	0	0
	point243	243	303	30	6	30	3	30	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point244	244	303	30	6	30	3	30	0	0	0	0
	point245	245	303	30	6	30	3	30	0	0	0	0
	point246	246	303	30	6	30	3	30	0	0	0	0
	point247	247	303	30	6	30	3	30	0	0	0	0
	point248	248	303	30	6	30	3	30	0	0	0	0
	point249	249	303	30	6	30	3	30	0	0	0	0
	point250	250	303	30	6	30	3	30	0	0	0	0
	point251	251	303	30	6	30	3	30	0	0	0	0
	point252	252	303	30	6	30	3	30	0	0	0	0
	point253	253										
16 North Fenton Pkwy (S of Int 9)	point255	255	303	30	6	30	3	30	0	0	0	0
	point256	256	303	30	6	30	3	30	0	0	0	0
	point257	257	303	30	6	30	3	30	0	0	0	0
	point258	258	303	30	6	30	3	30	0	0	0	0
	point259	259	303	30	6	30	3	30	0	0	0	0
	point260	260	303	30	6	30	3	30	0	0	0	0
	point261	261										
South Fenton Pkwy (N of Int 9)	point268	268	0	0	0	0	0	0	0	0	0	0
	point269	269	0	0	0	0	0	0	0	0	0	0
	point270	270	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point274	274										
North Fenton Pkwy (N of Int 9)	point275	275	0	0	0	0	0	0	0	0	0	0
	point276	276	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point280	280	0	0	0	0	0	0	0	0	0	0
	point281	281	0	0	0	0	0	0	0	0	0	0
	point282	282	0	0	0	0	0	0	0	0	0	0
	point571	571										
North Northside Dr	point283	283	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point286	286	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point289	289										
South Northside Dr	point291	291	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point293	293	0	0	0	0	0	0	0	0	0	0
	point294	294	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point297	297										
15 West Rio San Diego Dr	point299	299	642	45	13	45	7	45	0	0	0	0
	point300	300	642	45	13	45	7	45	0	0	0	0
	point301	301	642	45	13	45	7	45	0	0	0	0
	point302	302	642	45	13	45	7	45	0	0	0	0
	point303	303	642	45	13	45	7	45	0	0	0	0
	point304	304	642	45	13	45	7	45	0	0	0	0
	point305	305	642	45	13	45	7	45	0	0	0	0
	point306	306	642	45	13	45	7	45	0	0	0	0
	point307	307	642	45	13	45	7	45	0	0	0	0
	point577	577										
15 East Rio San Diego Dr	point308	308	642	45	13	45	7	45	0	0	0	0
	point309	309	642	45	13	45	7	45	0	0	0	0
	point310	310	642	45	13	45	7	45	0	0	0	0
	point311	311	642	45	13	45	7	45	0	0	0	0
	point312	312	642	45	13	45	7	45	0	0	0	0
	point313	313	642	45	13	45	7	45	0	0	0	0
	point314	314	642	45	13	45	7	45	0	0	0	0
	point315	315	642	45	13	45	7	45	0	0	0	0
	point578	578										
I15 South	point316	316	11004	65	227	65	113	65	0	0	0	0
	point318	318	11004	65	227	65	113	65	0	0	0	0
	point319	319	11004	65	227	65	113	65	0	0	0	0
	point320	320	11004	65	227	65	113	65	0	0	0	0
	point321	321	11004	65	227	65	113	65	0	0	0	0
	point 322	322	11004	65	227	65	113	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point323	323	11004	65	227	65	113	65	0	0	0	0
	point324	324	11004	65	227	65	113	65	0	0	0	0
	point325	325	11004	65	227	65	113	65	0	0	0	0
	point326	326	11004	65	227	65	113	65	0	0	0	0
	point327	327	11004	65	227	65	113	65	0	0	0	0
	point328	328	11004	65	227	65	113	65	0	0	0	0
	point329	329	11004	65	227	65	113	65	0	0	0	0
	point330	330										
I8 West	point354	354	12265	65	253	65	126	65	0	0	0	0
	point355	355	12265	65	253	65	126	65	0	0	0	0
	point356	356	12265	65	253	65	126	65	0	0	0	0
	point357	357	12265	65	253	65	126	65	0	0	0	0
	point358	358	12265	65	253	65	126	65	0	0	0	0
	point359	359	12265	65	253	65	126	65	0	0	0	0
	point360	360	12265	65	253	65	126	65	0	0	0	0
	point361	361	12265	65	253	65	126	65	0	0	0	0
	point362	362	12265	65	253	65	126	65	0	0	0	0
	point363	363	12265	65	253	65	126	65	0	0	0	0
	point364	364	12265	65	253	65	126	65	0	0	0	0
	point365	365	12265	65	253	65	126	65	0	0	0	0
	point548	548	12265	65	253	65	126	65	0	0	0	0
	point549	549	12265	65	253	65	126	65	0	0	0	0
	point550	550	12265	65	253	65	126	65	0	0	0	0
	point551	551	12265	65	253	65	126	65	0	0	0	0
	point552	552										
I8 East	point366	366	12088	65	249	65	125	65	0	0	0	0
	point367	367	12088	65	249	65	125	65	0	0	0	0
	point368	368	12088	65	249	65	125	65	0	0	0	0
	point369	369	12088	65	249	65	125	65	0	0	0	0
	point370	370	12088	65	249	65	125	65	0	0	0	0
	point371	371	12088	65	249	65	125	65	0	0	0	0
	point 372	372	12088	65	249	65	125	65	0	0	0	0
	point373	373	12088	65	249	65	125	65	0	0	0	0
	point374	374	12088	65	249	65	125	65	0	0	0	0
	point375	375	12088	65	249	65	125	65	0	0	0	0
	point376	376	12088	65	249	65	125	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point377	377	12088	65	249	65	125	65	0	0	0	0
	point378	378	12088	65	249	65	125	65	0	0	0	0
	point547	547										
19 South Rancho Mission Rd (S friars)	point379	379	906	45	19	45	9	45	0	0	0	0
	point380	380	906	45	19	45	9	45	0	0	0	0
	point381	381	906	45	19	45	9	45	0	0	0	0
	point382	382	906	45	19	45	9	45	0	0	0	0
	point383	383	906	45	19	45	9	45	0	0	0	0
	point384	384	906	45	19	45	9	45	0	0	0	0
	point385	385	906	45	19	45	9	45	0	0	0	0
	point386	386	906	45	19	45	9	45	0	0	0	0
	point387	387	906	45	19	45	9	45	0	0	0	0
	point388	388	906	45	19	45	9	45	0	0	0	0
	point572	572										
19 North Mission Road (S of Friars)	point389	389	906	45	19	45	9	45	0	0	0	0
	point390	390	906	45	19	45	9	45	0	0	0	0
	point391	391	906	45	19	45	9	45	0	0	0	0
	point392	392	906	45	19	45	9	45	0	0	0	0
	point393	393	906	45	19	45	9	45	0	0	0	0
	point394	394	906	45	19	45	9	45	0	0	0	0
	point395	395	906	45	19	45	9	45	0	0	0	0
	point396	396	906	45	19	45	9	45	0	0	0	0
	point397	397	906	45	19	45	9	45	0	0	0	0
	point398	398	906	45	19	45	9	45	0	0	0	0
	point399	399										
West San Diego Mission Rd 18	point401	401	642	45	13	45	7	45	0	0	0	0
	point402	402	642	45	13	45	7	45	0	0	0	0
	point403	403	642	45	13	45	7	45	0	0	0	0
	point404	404	642	45	13	45	7	45	0	0	0	0
	point405	405	642	45	13	45	7	45	0	0	0	0
	point406	406	642	45	13	45	7	45	0	0	0	0
	point407	407	642	45	13	45	7	45	0	0	0	0
	point408	408	642	45	13	45	7	45	0	0	0	0
	point409	409	642	45	13	45	7	45	0	0	0	0
	point410	410	642	45	13	45	7	45	0	0	0	0
	point575	575	642	45	13	45	7	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point576	576										
East San Diego Mission Rd 18	point424	424	642	45	13	45	7	45	0	0	0	0
	point425	425	642	45	13	45	7	45	0	0	0	0
	point426	426	642	45	13	45	7	45	0	0	0	0
	point427	427	642	45	13	45	7	45	0	0	0	0
	point428	428	642	45	13	45	7	45	0	0	0	0
	point429	429	642	45	13	45	7	45	0	0	0	0
	point430	430	642	45	13	45	7	45	0	0	0	0
	point431	431	642	45	13	45	7	45	0	0	0	0
	point432	432	642	45	13	45	7	45	0	0	0	0
	point433	433	642	45	13	45	7	45	0	0	0	0
	point434	434										
South Fairmount Ave (N of Int 25)	point436	436	0	0	0	0	0	0	0	0	0	0
	point437	437										
North Fairmount Ave (N of Int 25)	point438	438	0	0	0	0	0	0	0	0	0	0
	point439	439										
23 South Fairmont Ave (S of Int 25)	point440	440	423	45	9	45	4	45	0	0	0	0
	point441	441	423	45	9	45	4	45	0	0	0	0
	point442	442	423	45	9	45	4	45	0	0	0	0
	point443	443										
23 North Fairmount Ave (S of Int 25)	point444	444	423	45	9	45	4	45	0	0	0	0
	point445	445	423	45	9	45	4	45	0	0	0	0
	point446	446	423	45	9	45	4	45	0	0	0	0
	point574	574										
South Mission Gorge Rd	point462	462	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point466	466	0	0	0	0	0	0	0	0	0	0
	point467	467										
North Mission Gorge Rd	point469	469	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point472	472	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point475	475										
West Camino Del Rio (E of Int 27)	point528	528	0	0	0	0	0	0	0	0	0	0
	point527	527	0	0	0	0	0	0	0	0	0	0
	point526	526	0	0	0	0	0	0	0	0	0	0
	point105	105	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454										
East Camino Del Rio (E of Int 27)	point461	461	0	0	0	0	0	0	0	0	0	0
	point460	460	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point455	455	0	0	0	0	0	0	0	0	0	0
	point190	0 2	0	0	0	0	0	0	0	0	0	0
	point192	192										
South Stadium Way	point478	478	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point569	569										
North Stadium Way	point484	484	0	0	0	0	0	0	0	0	0	0
	point485	485	0	0	0	0	0	0	0	0	0	0
	point486	486	0	0	0	0	0	0	0	0	0	0
	point487	487	0	0	0	0	0	0	0	0	0	0
	point488	488	0	0	0	0	0	0	0	0	0	0
	point570	570										
West Stadium Way (W of Int 26)	point489	489	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point490	490	0	0	0	0	0	0	0	0	0	0
	point491	491	0	0	0	0	0	0	0	0	0	0
	point492	492	0	0	0	0	0	0	0	0	0	0
	point493	493	0	0	0	0	0	0	0	0	0	0
	point494	494	0	0	0	0	0	0	0	0	0	0
	point495	495	0	0	0	0	0	0	0	0	0	0
	point496	496	0	0	0	0	0	0	0	0	0	0
	point497	497	0	0	0	0	0	0	0	0	0	0
	point498	498										
East Stadium Way (W of Int 26)	point499	499	0	0	0	0	0	0	0	0	0	0
	point500	500	0	0	0	0	0	0	0	0	0	0
	point501	501	0	0	0	0	0	0	0	0	0	0
	point502	502	0	0	0	0	0	0	0	0	0	0
	point503	503	0	0	0	0	0	0	0	0	0	0
	point504	504	0	0	0	0	0	0	0	0	0	0
	point505	505	0	0	0	0	0	0	0	0	0	0
	point506	506	0	0	0	0	0	0	0	0	0	0
	point507	507	0	0	0	0	0	0	0	0	0	0
	point573	573										
5 West Friars- (W of Int 10)	point509	509	2196	45	45	45	23	45	0	0	0	0
	point32	32										
5 East Friars (W of Int 10)	point510	510	2196	45	45	45	23	45	0	0	0	0
	point63	63										
8 West Friars (Mission to 15)	point523	523	2563	45	53	45	26	45	0	0	0	0
	point40	40	2563	45	53	45	26	45	0	0	0	0
	point41	41	2563	45	53	45	26	45	0	0	0	0
	point600	600										
8 East Friars (Mission to 15)	point524	524	2563	45	53	45	26	45	0	0	0	0
	point521	521	2563	45	53	45	26	45	0	0	0	0
	point522	522	2563	45	53	45	26	45	0	0	0	0
	point71	71	2563	45	53	45	26	45	0	0	0	0
	point599	599										
West Camino Del Rio (W of Int 27)	point529	529	0	0	0	0	0	0	0	0	0	0
	point106	106	0	0	0	0	0	0	0	0	0	0
	point107	107	0	0	0	0	0	0	0	0	0	0
	point108	108	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point109	109	0	0	0	0	0	0	0	0	0	0
	point110	110	0	0	0	0	0	0	0	0	0	0
	point111	111	0	0	0	0	0	0	0	0	0	0
	point112	112	0	0	0	0	0	0	0	0	0	0
	point113	113	0	0	0	0	0	0	0	0	0	0
	point114	114	0	0	0	0	0	0	0	0	0	0
	point115	115	0	0	0	0	0	0	0	0	0	0
	point116	116	0	0	0	0	0	0	0	0	0	0
	point117	117	0	0	0	0	0	0	0	0	0	0
	point118	118	0	0	0	0	0	0	0	0	0	0
	point119	119	0	0	0	0	0	0	0	0	0	0
	point120	120	0	0	0	0	0	0	0	0	0	0
	point121	121	0	0	0	0	0	0	0	0	0	0
	point122	122	0	0	0	0	0	0	0	0	0	0
	point123	123	0	0	0	0	0	0	0	0	0	0
	point124	124	0	0	0	0	0	0	0	0	0	0
	point125	125	0	0	0	0	0	0	0	0	0	0
	point126	126	0	0	0	0	0	0	0	0	0	0
	point127	127	0	0	0	0	0	0	0	0	0	0
	point128	128	0	0	0	0	0	0	0	0	0	0
	point129	129	0	0	0	0	0	0	0	0	0	0
	point130	130	0	0	0	0	0	0	0	0	0	0
	point131	131	0	0	0	0	0	0	0	0	0	0
	point132	132	0	0	0	0	0	0	0	0	0	0
	point133	133										
East Camino Del Rio (W of Int 27)	point530	530	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point211	211	0	0	0	0	0	0	0	0	0	0
	point212	212	0	0	0	0	0	0	0	0	0	0
	point213	213	0	0	0	0	0	0	0	0	0	0
	point214	214	0	0	0	0	0	0	0	0	0	0
	point215	215	0	0	0	0	0	0	0	0	0	0
	point216	216	0	0	0	0	0	0	0	0	0	0
	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221										
West Twain Ave	point533	533	0	0	0	0	0	0	0	0	0	0
	point411	411										
East Twain Ave	point534	534	0	0	0	0	0	0	0	0	0	0
	point532	532										
East Friars (W of Int 9)	point538	538	2641	45	54	45	27	45	0	0	0	0
	point539	539	2641	45	54	45	27	45	0	0	0	0
	point540	540	2641	45	54	45	27	45	0	0	0	0
	point541	541	2641	45	54	45	27	45	0	0	0	0
	point542	542	2641	45	54	45	27	45	0	0	0	0
	point543	543	2641	45	54	45	27	45	0	0	0	0
	point563	563	2641	45	54	45	27	45	0	0	0	0
	point564	564	2641	45	54	45	27	45	0	0	0	0
	point565	565	2641	45	54	45	27	45	0	0	0	0
	point566	566	2641	45	54	45	27	45	0	0	0	0
	point567	567	2641	45	54	45	27	45	0	0	0	0
	point568	568										
4 west Friars east of 805	point579	579	2095	45	43	45	22	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point580	580	2095	45	43	45	22	45	0	0	0	0
	point581	581	2095	45	43	45	22	45	0	0	0	0
	point582	582	2095	45	43	45	22	45	0	0	0	0
	point583	583										
4 East Friars east of 805	point584	584	2095	45	43	45	22	45	0	0	0	0
	point585	585	2095	45	43	45	22	45	0	0	0	0
	point586	586	2095	45	43	45	22	45	0	0	0	0
	point587	587	2095	45	43	45	22	45	0	0	0	0
	point588	588	2095	45	43	45	22	45	0	0	0	0
	point589	589										
North River Run Dr	point590	590	0	0	0	0	0	0	0	0	0	0
	point591	591	0	0	0	0	0	0	0	0	0	0
	point592	592	0	0	0	0	0	0	0	0	0	0
	point593	593										
South River Run Dr	point594	594	0	0	0	0	0	0	0	0	0	0
	point595	595	0	0	0	0	0	0	0	0	0	0
	point596	596	0	0	0	0	0	0	0	0	0	0
	point597	597	0	0	0	0	0	0	0	0	0	0
	point598	598										
9 West Friars (15 to Rancho Mission)	point601	601	3539	45	73	45	36	45	0	0	0	0
	point42	42	3539	45	73	45	36	45	0	0	0	0
	point43	43	3539	45	73	45	36	45	0	0	0	0
	point44	44	3539	45	73	45	36	45	0	0	0	0
	point45	45	3539	45	73	45	36	45	0	0	0	0
	point46	46	3539	45	73	45	36	45	0	0	0	0
	point553	553	3539	45	73	45	36	45	0	0	0	0
	point554	554										
9 East Friars (15 to Rancho Mission)	point602	602	3539	45	73	45	36	45	0	0	0	0
	point72	72	3539	45	73	45	36	45	0	0	0	0
	point73	73	3539	45	73	45	36	45	0	0	0	0
	point74	74	3539	45	73	45	36	45	0	0	0	0
	point75	75	3539	45	73	45	36	45	0	0	0	0
	point76	76										
I-15 North	point603	603	9400	65	194	65	97	65	0	0	0	0
	point604	604	9400	65	194	65	97	65	0	0	0	0
	point605	605	9400	65	194	65	97	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point606	606	9400	65	194	65	97	65	0	0	0	0
	point607	607	9400	65	194	65	97	65	0	0	0	0
	point608	608	9400	65	194	65	97	65	0	0	0	0
	point609	609	9400	65	194	65	97	65	0	0	0	0
	point610	610	9400	65	194	65	97	65	0	0	0	0
	point611	611	9400	65	194	65	97	65	0	0	0	0
	point612	612	9400	65	194	65	97	65	0	0	0	0
	point613	613	9400	65	194	65	97	65	0	0	0	0
	point614	614	9400	65	194	65	97	65	0	0	0	0
	point615	615	9400	65	194	65	97	65	0	0	0	0
	point616	616	9400	65	194	65	97	65	0	0	0	0
	point617	617	9400	65	194	65	97	65	0	0	0	0
	point618	618	9400	65	194	65	97	65	0	0	0	0
	point619	619	9400	65	194	65	97	65	0	0	0	0
	point620	620	9400	65	194	65	97	65	0	0	0	0
	point621	621										

INPUT: RECEIVERS

SDSU West Campus

							22 February 2019					
Dudek												
CB							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:							SDSU West Campus					
RUN:							Horizon Year No Project					
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active	
			X	Y	Z	above	Existing	Impact Criteria		NR	in	
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.	
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST9	1	1	5,119.4	6,645.4	250.00	4.92	52.50	66	10.0	8.0	Y	
ST10	2	1	6,573.6	5,525.0	200.00	4.92	52.80	66	10.0	8.0	Y	
ST1	3	1	8,338.7	3,886.4	0.00	4.92	77.40	66	10.0	8.0	Y	
ST2a	4	1	8,632.8	2,814.1	0.00	4.92	72.20	66	10.0	8.0	Y	
ST8	5	1	9,471.6	2,808.0	0.00	4.92	67.00	66	10.0	8.0	Y	
ST3	6	1	4,776.5	4,099.3	0.00	4.92	64.90	66	10.0	8.0	Y	
ST5	8	1	4,729.6	3,692.2	0.00	4.92	53.70	66	10.0	8.0	Y	
ST4	9	1	8,367.3	347.6	150.00	4.92	69.10	66	10.0	8.0	Y	
ST7	10	1	4,336.6	1,707.8	0.00	4.92	59.00	66	10.0	8.0	Y	
ST6	11	1	5,594.8	1,170.3	0.00	4.92	65.10	66	10.0	8.0	Y	

INPUT: BUILDING ROWS

SDSU West Campus

Dudek								22 February 2019
CB								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:	SDSU West Campus							
RUN:	Horizon Year No Project							
Building Row				Points				
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building2-Building1	30.00	80	5	4,686.0	3,683.4	0.00		
			6	4,513.6	3,879.2	0.00		
			1	4,511.5	3,881.2	0.00		
			2	4,596.4	3,958.3	0.00		
			3	4,777.9	3,758.9	0.00		
			4	4,689.1	3,681.0	0.00		
Building10	20.00	50	29	6,423.0	5,510.9	200.00		
			30	6,480.1	5,374.0	200.00		
			31	6,537.1	5,323.8	200.00		
			32	6,614.7	5,328.3	200.00		
			33	6,686.6	5,339.7	200.00		
			34	6,712.8	5,358.0	200.00		
			35	6,691.1	5,443.5	200.00		
			36	6,682.0	5,510.9	200.00		
			37	6,674.0	5,539.4	200.00		
Building11	20.00	80	47	5,448.5	6,823.5	250.00		
			48	5,254.6	6,581.5	250.00		
			49	5,342.4	6,530.2	250.00		
			50	5,513.6	6,774.4	250.00		
Building12	20.00	80	51	5,131.6	6,657.7	250.00		
			52	5,197.3	6,592.4	250.00		
			53	5,445.6	6,881.1	250.00		
			54	5,196.4	7,337.2	250.00		
			55	5,118.2	7,293.4	250.00		

INPUT: BUILDING ROWS**SDSU West Campus**

			56	5,316.7	6,898.3	250.00
			57	5,132.0	6,658.6	250.00

INPUT: GROUND ZONES

SDSU West Campus

Dudek			22 February 2019		
CB			TNM 2.5		
INPUT: GROUND ZONES					
PROJECT/CONTRACT:		SDSU West Campus			
RUN:		Horizon Year No Project			
Ground Zone			Points		
Name	Type	Flow	No.	Coordinates	
		Resistivity		X	Y
		cgs rayls		ft	ft
Ground Zone1	Loose Soil	500	1	4,727.0	1,193.7
			2	6,088.3	1,805.5
			3	6,380.8	1,386.8
			4	5,170.6	620.1
Ground Zone2	Loose Soil	500	5	5,116.5	6,663.9
			6	5,298.1	6,895.3
			7	5,101.2	7,315.9
			8	5,005.6	7,233.7
			9	5,129.9	6,977.5
			10	5,041.9	6,748.0

RESULTS: SOUND LEVELS

SDSU West Campus

Dudek													22 February 2019	
CB													TNM 2.5	
													Calculated with TNM 2.5	
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:			SDSU West Campus											
RUN:			Horizon Year with Project											
BARRIER DESIGN:			INPUT HEIGHTS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.	
ATMOSPHERICS:			68 deg F, 50% RH											
Receiver														
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal	
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
ST9		1	1	52.5	56.6	66	4.1	10	----	56.6	0.0	8	-8.0	
ST10		2	1	52.8	56.7	66	3.9	10	----	56.7	0.0	8	-8.0	
ST1		3	1	77.4	79.1	66	1.7	10	Snd Lvl	79.1	0.0	8	-8.0	
ST2a		4	1	72.2	75.8	66	3.6	10	Snd Lvl	75.8	0.0	8	-8.0	
ST8		5	1	67.0	69.1	66	2.1	10	Snd Lvl	69.1	0.0	8	-8.0	
ST3		6	1	64.9	64.5	66	-0.4	10	----	64.5	0.0	8	-8.0	
ST5		8	1	53.7	57.7	66	4.0	10	----	57.7	0.0	8	-8.0	
ST4		9	1	69.1	71.4	66	2.3	10	Snd Lvl	71.4	0.0	8	-8.0	
ST7		10	1	59.0	60.5	66	1.5	10	----	60.5	0.0	8	-8.0	
ST6		11	1	65.1	68.9	66	3.8	10	Snd Lvl	68.9	0.0	8	-8.0	
Dwelling Units			# DUs	Noise Reduction										
				Min	Avg	Max								
				dB	dB	dB								
All Selected			10	0.0	0.0	0.0								
All Impacted			5	0.0	0.0	0.0								
All that meet NR Goal			0	0.0	0.0	0.0								

INPUT: ROADWAYS

SDSU West Campus

Dudek CB				22 February 2019 TNM 2.5							
INPUT: ROADWAYS				SDSU West Campus			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				SDSU West Campus							
RUN:				Horizon Year with Project							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
South Mission Village Dr 26	30.0	point9	9	6,292.3	4,593.3	0.00				Average	
		point8	8	6,222.5	5,085.5	50.00				Average	
		point7	7	6,196.8	5,331.5	60.00				Average	
		point6	6	6,141.7	5,651.1	70.00				Average	
		point5	5	6,024.1	5,904.5	120.00				Average	
		point4	4	5,840.5	6,253.3	150.00				Average	
		point3	3	5,642.2	6,613.3	200.00				Average	
		point2	2	5,451.2	6,929.1	240.00				Average	
		point1	1	5,234.5	7,325.7	240.00					
North Mission Village Dr	30.0	point15	15	6,329.0	4,615.4	0.00				Average	
		point16	16	6,284.9	4,909.2	0.00				Average	
		point17	17	6,248.2	5,265.4	50.00				Average	
		point18	18	6,207.8	5,478.4	60.00				Average	
		point19	19	6,174.7	5,636.4	63.00				Average	
		point535	535	6,049.9	5,937.5	120.00				Average	
		point20	20	5,866.2	6,257.0	200.00				Average	
		point21	21	5,701.0	6,561.8	200.00				Average	
		point22	22	5,506.3	6,899.7	240.00				Average	
		point23	23	5,289.7	7,296.3	240.00				Average	
		point537	537	5,263.9	7,333.1	240.00					
westFriars (W of Int 9)	40.0	point58	58	6,262.9	4,596.3	20.00				Average	
		point59	59	6,116.0	4,533.9	20.00				Average	
		point60	60	5,965.4	4,482.4	20.00				Average	
		point61	61	5,840.5	4,467.7	20.00				Average	
		point62	62	5,495.3	4,427.4	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point555	555	5,263.9	4,412.7	20.00				Average	
		point556	556	5,047.3	4,353.9	20.00				Average	
		point557	557	4,874.6	4,287.8	20.00				Average	
		point558	558	4,628.6	4,129.9	20.00				Average	
		point559	559	4,426.6	4,030.7	20.00				Average	
		point560	560	4,261.4	3,924.2	20.00				Average	
		point561	561	4,055.7	3,744.3	20.00				Average	
		point562	562	3,945.5	3,641.4	20.00					
17 West San Diego Mission Rd	20.0	point77	77	6,442.0	4,400.7	0.00				Average	
		point78	78	6,666.0	4,540.3	0.00				Average	
		point79	79	6,816.6	4,606.3	0.00				Average	
		point80	80	6,970.9	4,676.1	5.00				Average	
		point81	81	7,121.5	4,672.4	10.00				Average	
		point82	82	7,437.3	4,599.0	15.00				Average	
		point83	83	7,955.1	4,444.8	20.00				Average	Y
		point84	84	8,370.1	4,319.9	15.00				Average	
		point85	85	8,730.0	4,213.4	10.00				Average	
		point86	86	9,078.9	4,059.2	5.00				Average	
		point87	87	9,372.7	3,941.6	0.00					
17 East San Diego Mission Rd	20.0	point88	88	6,456.7	4,386.0	0.00				Average	
		point89	89	6,735.8	4,536.6	0.00				Average	
		point90	90	6,952.5	4,632.1	5.00				Average	
		point91	91	7,077.4	4,650.4	10.00				Average	
		point92	92	7,235.3	4,628.4	20.00				Average	Y
		point93	93	7,991.8	4,408.0	20.00				Average	Y
		point94	94	8,557.4	4,239.1	10.00				Average	
		point95	95	9,005.5	4,066.5	5.00				Average	
		point96	96	9,339.7	3,923.3	0.00					
22 North Ward Rd	30.0	point97	97	9,400.6	3,882.1	0.00				Average	
		point98	98	9,386.0	2,130.3	0.00					
22 South Ward Row	30.0	point102	102	9,367.6	3,893.1	0.00				Average	
		point103	103	9,363.9	2,119.3	0.00					
16 South Fenton Pkwy (S of Int 9)	30.0	point242	242	4,260.1	1,609.0	0.00				Average	
		point243	243	4,157.3	1,686.2	0.00				Average	
		point244	244	4,076.5	1,733.9	0.00				Average	
		point245	245	3,999.4	1,752.3	0.00				Average	
		point246	246	3,900.2	1,774.3	0.00				Average	
		point247	247	3,782.7	1,800.0	0.00				Average	
		point248	248	3,551.3	1,866.1	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point249	249	3,426.5	1,895.5	0.00				Average
		point250	250	3,294.3	1,980.0	0.00				Average
		point251	251	3,202.5	2,057.1	0.00				Average
		point252	252	3,081.3	2,182.0	0.00				Average
		point253	253	2,805.8	2,472.1	0.00				
16 North Fenton Pkwy (S of Int 9)	30.0	point255	255	2,842.6	2,501.5	0.00				Average
		point256	256	3,283.3	2,024.0	0.00				Average
		point257	257	3,393.4	1,969.0	0.00				Average
		point258	258	3,624.8	1,888.2	0.00				Average
		point259	259	3,859.8	1,840.4	0.00				Average
		point260	260	4,032.4	1,800.0	0.00				Average
		point261	261	4,252.8	1,645.8	0.00				
South Fenton Pkwy (N of Int 9)	30.0	point268	268	2,721.4	2,549.2	0.00				Average
		point269	269	2,523.0	2,776.9	0.00				Average
		point270	270	2,431.2	2,912.8	0.00				Average
		point271	271	2,310.0	3,089.1	0.00				Average
		point272	272	2,240.3	3,228.6	0.00				Average
		point273	273	2,196.2	3,404.9	0.00				Average
		point274	274	2,188.8	3,794.2	0.00				
North Fenton Pkwy (N of Int 9)	30.0	point275	275	2,758.1	2,578.6	0.00				Average
		point276	276	2,548.8	2,846.7	0.00				Average
		point277	277	2,427.6	3,000.9	0.00				Average
		point278	278	2,343.1	3,144.2	0.00				Average
		point279	279	2,295.3	3,232.3	0.00				Average
		point280	280	2,251.3	3,342.5	0.00				Average
		point281	281	2,229.2	3,511.4	0.00				Average
		point282	282	2,225.6	3,753.8	0.00				Average
		point571	571	2,229.2	3,801.5	0.00				
North Northside Dr	12.0	point283	283	3,900.2	3,642.2	0.00				Average
		point284	284	3,735.0	3,818.4	0.00				Average
		point285	285	3,632.2	3,943.3	0.00				Average
		point286	286	3,547.7	3,987.4	0.00				Average
		point287	287	3,444.8	4,075.5	0.00				Average
		point288	288	3,286.9	4,138.0	0.00				Average
		point289	289	3,015.2	4,251.8	0.00				
South Northside Dr	12.0	point291	291	3,870.9	3,606.9	0.00				Average
		point292	292	3,628.5	3,904.4	0.00				Average
		point293	293	3,529.3	3,981.5	0.00				Average
		point294	294	3,437.5	4,040.3	0.00				Average

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		point295	295	3,305.3	4,099.0	0.00				Average	
		point296	296	3,103.3	4,190.8	0.00				Average	
		point297	297	2,996.8	4,238.6	0.00					
15 West Rio San Diego Dr	30.0	point299	299	1,806.9	609.4	0.00				Average	
		point300	300	2,005.2	675.5	0.00				Average	
		point301	301	2,141.1	741.6	0.00				Average	
		point302	302	2,313.7	888.5	0.00				Average	
		point303	303	2,493.7	1,094.2	0.00				Average	
		point304	304	2,647.9	1,263.1	0.00				Average	
		point305	305	2,835.2	1,509.2	0.00				Average	
		point306	306	2,941.7	1,608.3	0.00				Average	
		point307	307	3,083.5	1,746.2	0.00				Average	
		point577	577	3,261.1	1,998.8	0.00					
15 East Rio San Diego Dr	30.0	point308	308	1,854.6	572.6	0.00				Average	
		point309	309	2,097.0	675.5	0.00				Average	
		point310	310	2,295.3	829.7	0.00				Average	
		point311	311	2,490.0	1,024.4	0.00				Average	
		point312	312	2,692.0	1,263.1	0.00				Average	
		point313	313	2,853.6	1,479.8	0.00				Average	
		point314	314	2,952.7	1,597.3	0.00				Average	
		point315	315	3,084.9	1,711.1	0.00				Average	
		point578	578	3,279.6	1,957.2	0.00					
I15 South	90.0	point316	316	8,797.6	-298.7	75.00				Average	
		point318	318	8,904.1	142.0	60.00				Average	
		point319	319	8,944.5	443.1	40.00				Average	
		point320	320	8,933.5	825.1	20.00				Average	
		point321	321	8,834.3	1,163.0	20.00				Average	Y
		point 322	322	8,562.5	2,121.5	20.00				Average	Y
		point323	323	8,367.9	2,841.3	0.00				Average	
		point324	324	8,118.2	3,763.1	0.00				Average	
		point325	325	8,092.5	4,325.0	0.00				Average	
		point326	326	8,184.3	4,964.0	0.00				Average	
		point327	327	8,290.8	5,313.0	0.00				Average	
		point328	328	8,698.4	6,613.0	0.00				Average	
		point329	329	8,812.3	7,064.8	15.00				Average	
		point330	330	8,834.3	7,472.4	30.00					
I8 West	90.0	point354	354	12,786.7	1,868.8	20.00				Average	
		point355	355	12,470.9	1,791.7	20.00				Average	
		point356	356	12,235.8	1,758.7	20.00				Average	

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		point357	357	11,839.2	1,685.2	20.00				Average	
		point358	358	11,350.8	1,641.1	20.00				Average	
		point359	359	10,715.4	1,589.7	20.00				Average	
		point360	360	9,870.7	1,600.7	20.00				Average	
		point361	361	9,055.4	1,571.4	20.00				Average	
		point362	362	8,122.6	1,560.3	15.00				Average	
		point363	363	7,582.7	1,534.6	10.00				Average	
		point364	364	7,318.3	1,505.2	10.00				Average	
		point365	365	6,793.1	1,373.0	10.00				Average	
		point548	548	6,389.1	1,193.1	10.00				Average	
		point549	549	5,930.1	906.6	10.00				Average	
		point550	550	5,397.6	521.0	10.00				Average	
		point551	551	4,552.9	-44.6	10.00				Average	
		point552	552	4,071.8	-312.7	10.00					
18 East	90.0	point366	366	12,786.7	1,772.6	20.00				Average	
		point367	367	11,949.4	1,629.4	20.00				Average	
		point368	368	11,163.5	1,567.0	20.00				Average	
		point369	369	9,481.4	1,522.9	20.00				Average	
		point370	370	8,691.8	1,497.2	20.00				Average	
		point371	371	7,905.9	1,486.2	20.00				Average	
		point 372	372	7,700.2	1,486.2	25.00				Average	
		point373	373	7,593.7	1,467.8	25.00				Average	
		point374	374	7,193.4	1,372.3	25.00				Average	
		point375	375	6,730.7	1,203.4	25.00				Average	
		point376	376	6,264.3	950.0	25.00				Average	
		point377	377	5,287.4	303.6	25.00				Average	
		point378	378	4,472.1	-203.2	25.00				Average	
		point547	547	4,244.4	-324.4	25.00					
19 South Rancho Mission Rd (S friars)	30.0	point379	379	9,376.4	3,982.0	0.00				Average	
		point380	380	9,387.4	4,239.1	0.00				Average	
		point381	381	9,468.2	4,345.6	0.00				Average	
		point382	382	9,541.7	4,419.1	0.00				Average	
		point383	383	9,684.9	4,448.4	0.00				Average	
		point384	384	9,897.9	4,496.2	0.00				Average	
		point385	385	10,015.4	4,558.6	0.00				Average	
		point386	386	10,085.2	4,698.2	0.00				Average	
		point387	387	10,096.2	4,815.7	0.00				Average	
		point388	388	10,081.5	4,889.1	0.00				Average	
		point572	572	9,919.9	5,531.8	0.00					

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19 North Mission Road (S of Friars)	30.0	point389	389	9,398.4	3,974.7	0.00				Average
		point390	390	9,416.8	4,231.8	0.00				Average
		point391	391	9,493.9	4,349.3	0.00				Average
		point392	392	9,574.7	4,393.3	0.00				Average
		point393	393	9,780.4	4,433.7	0.00				Average
		point394	394	9,978.7	4,499.8	0.00				Average
		point395	395	10,044.8	4,547.6	0.00				Average
		point396	396	10,107.2	4,694.5	0.00				Average
		point397	397	10,114.6	4,808.3	0.00				Average
		point398	398	10,088.9	4,922.2	0.00				Average
		point399	399	9,956.7	5,546.5	0.00				
West San Diego Mission Rd 18	20.0	point401	401	9,424.1	3,919.6	0.00				Average
		point402	402	10,026.4	3,710.2	0.00				Average
		point403	403	10,360.6	3,603.7	0.00				Average
		point404	404	10,665.5	3,522.9	0.00				Average
		point405	405	10,771.9	3,500.9	0.00				Average
		point406	406	11,209.0	3,453.2	0.00				Average
		point407	407	11,359.6	3,475.2	0.00				Average
		point408	408	11,473.4	3,563.4	0.00				Average
		point409	409	11,627.7	3,721.3	0.00				Average
		point410	410	11,759.9	3,860.8	0.00				Average
		point575	575	11,848.0	3,926.9	0.00				Average
		point576	576	12,127.1	3,971.0	0.00				
East San Diego Mission Rd 18	20.0	point424	424	9,424.1	3,886.5	0.00				Average
		point425	425	10,573.7	3,508.3	0.00				Average
		point426	426	10,889.5	3,449.5	0.00				Average
		point427	427	11,128.2	3,431.1	0.00				Average
		point428	428	11,304.5	3,420.1	0.00				Average
		point429	429	11,407.3	3,464.2	0.00				Average
		point430	430	11,550.5	3,574.4	0.00				Average
		point431	431	11,675.4	3,728.6	0.00				Average
		point432	432	11,800.3	3,849.8	0.00				Average
		point433	433	11,881.1	3,915.9	0.00				Average
		point434	434	12,116.1	3,934.3	0.00				
South Fairmount Ave (N of Int 25)	25.0	point436	436	12,145.5	3,989.4	0.00				Average
		point437	437	12,156.5	5,160.9	0.00				
North Fairmount Ave (N of Int 25)	25.0	point438	438	12,163.8	4,015.1	0.00				Average
		point439	439	12,178.5	5,182.9	0.00				
23 South Fairmont Ave (S of Int 25)	25.0	point440	440	12,147.7	3,926.2	0.00				Average

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		point441	441	12,144.0	2,644.5	0.00				Average
		point442	442	12,151.4	2,596.7	0.00				Average
		point443	443	12,202.8	2,519.6	0.00				
23 North Fairmount Ave (S of Int 25)	25.0	point444	444	12,169.7	3,915.2	0.00				Average
		point445	445	12,169.7	2,732.6	0.00				Average
		point446	446	12,177.1	2,644.5	0.00				Average
		point574	574	12,191.8	2,574.7	0.00				
South Mission Gorge Rd	30.0	point462	462	12,136.7	2,064.2	0.00				Average
		point463	463	12,133.0	2,313.9	0.00				Average
		point464	464	12,210.1	2,527.0	0.00				Average
		point465	465	12,353.3	2,710.6	0.00				Average
		point466	466	12,500.3	2,824.4	0.00				Average
		point467	467	12,794.1	2,997.0	0.00				
North Mission Gorge Rd	30.0	point469	469	12,199.1	2,115.6	0.00				Average
		point470	470	12,195.4	2,317.6	0.00				Average
		point471	471	12,257.9	2,504.9	0.00				Average
		point472	472	12,324.0	2,626.1	0.00				Average
		point473	473	12,408.4	2,725.3	0.00				Average
		point474	474	12,533.3	2,809.7	0.00				Average
		point475	475	12,790.4	2,953.0	0.00				
West Camino Del Rio (E of Int 27)	30.0	point528	528	9,396.9	2,075.2	0.00				Average
		point527	527	9,745.9	2,027.5	0.00				Average
		point526	526	10,065.4	1,972.4	0.00				Average
		point105	105	10,252.7	1,910.0	0.00				Average
		point447	447	10,539.1	1,865.9	0.00				Average
		point448	448	10,913.7	1,869.6	0.00				Average
		point449	449	11,299.3	1,843.9	0.00				Average
		point450	450	11,508.7	1,843.9	0.00				Average
		point451	451	11,651.9	1,854.9	0.00				Average
		point452	452	11,791.5	1,921.0	0.00				Average
		point453	453	11,949.4	2,027.5	0.00				Average
		point454	454	12,096.3	2,137.7	0.00				
East Camino Del Rio (E of Int 27)	30.0	point461	461	9,419.0	2,023.8	0.00				Average
		point460	460	9,786.3	1,972.4	0.00				Average
		point459	459	10,047.0	1,924.6	0.00				Average
		point458	458	10,300.4	1,858.6	0.00				Average
		point457	457	10,564.8	1,851.2	0.00				Average
		point456	456	11,170.8	1,832.8	0.00				Average
		point455	455	11,490.3	1,818.1	0.00				Average

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		point190	190	11,707.0	1,829.2	0.00				Average
		point192	192	12,063.2	2,086.3	0.00				
South Stadium Way	45.0	point478	478	4,605.4	4,060.7	0.00				Average
		point479	479	4,733.9	4,001.9	0.00				Average
		point480	480	4,807.3	3,935.8	0.00				Average
		point481	481	4,858.8	3,814.6	0.00				Average
		point482	482	4,910.2	3,311.5	0.00				Average
		point483	483	4,965.3	2,617.4	0.00				Average
		point569	569	5,013.0	2,117.9	0.00				
North Stadium Way	45.0	point484	484	4,954.3	4,238.5	0.00				Average
		point485	485	4,891.8	4,161.3	0.00				Average
		point486	486	4,862.4	4,109.9	0.00				Average
		point487	487	4,888.2	3,849.1	0.00				Average
		point488	488	4,891.8	3,687.6	0.00				Average
		point570	570	5,042.4	2,137.7	0.00				
West Stadium Way (W of Int 26)	20.0	point489	489	9,334.5	2,728.9	0.00				Average
		point490	490	9,239.0	2,688.5	0.00				Average
		point491	491	9,169.3	2,648.1	0.00				Average
		point492	492	8,912.2	2,640.8	0.00				Average
		point493	493	8,824.0	2,662.8	0.00				Average
		point494	494	8,735.9	2,681.2	0.00				Average
		point495	495	8,633.1	2,688.5	0.00				Average
		point496	496	8,570.6	2,677.5	0.00				Average
		point497	497	8,276.8	2,706.9	0.00				Average
		point498	498	8,129.9	2,747.3	0.00				
East Stadium Way (W of Int 26)	20.0	point499	499	9,334.5	2,703.2	0.00				Average
		point500	500	9,224.3	2,655.5	0.00				Average
		point501	501	9,169.3	2,629.8	0.00				Average
		point502	502	8,912.2	2,629.8	0.00				Average
		point503	503	8,842.4	2,637.1	0.00				Average
		point504	504	8,695.5	2,666.5	0.00				Average
		point505	505	8,592.7	2,662.8	0.00				Average
		point506	506	8,387.0	2,651.8	0.00				Average
		point507	507	8,273.2	2,666.5	0.00				Average
		point573	573	8,152.0	2,710.6	0.00				
5 West Friars- (W of Int 10)	40.0	point509	509	3,873.5	3,585.6	20.00				Average
		point32	32	2,797.5	2,575.7	20.00				
5 East Friars (W of Int 10)	40.0	point510	510	3,928.6	3,545.2	20.00				Average
		point63	63	2,834.2	2,524.2	20.00				

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8 West Friars (Mission to 15)	40.0	point523	523	6,351.7	4,630.6	0.00				Average	
		point40	40	7,189.0	4,906.0	10.00				Average	
		point41	41	7,850.1	5,078.6	20.00				Average	Y
		point600	600	8,165.9	5,163.1	20.00					
8 East Friars (Mission to 15)	40.0	point524	524	6,353.9	4,582.8	0.00				Average	
		point521	521	6,882.7	4,759.1	5.00				Average	
		point522	522	7,169.2	4,858.3	10.00				Average	
		point71	71	7,606.2	4,972.1	20.00				Average	Y
		point599	599	8,228.7	5,142.9	15.00					
West Camino Del Rio (W of Int 27)	20.0	point529	529	2,684.6	-317.1	0.00				Average	
		point106	106	2,901.3	-214.2	0.00				Average	
		point107	107	3,235.5	-177.5	0.00				Average	
		point108	108	3,525.7	-111.4	0.00				Average	
		point109	109	3,698.3	-1.2	0.00				Average	
		point110	110	3,944.3	233.8	0.00				Average	
		point111	111	4,164.7	457.8	0.00				Average	
		point112	112	4,370.3	656.2	0.00				Average	
		point113	113	4,587.0	839.8	0.00				Average	
		point114	114	4,704.5	913.2	0.00				Average	
		point115	115	4,829.4	920.6	0.00				Average	
		point116	116	4,902.9	869.2	0.00				Average	
		point117	117	5,009.4	714.9	0.00				Average	
		point118	118	5,090.2	615.7	0.00				Average	
		point119	119	5,204.0	586.4	0.00				Average	
		point120	120	5,354.6	652.5	0.00				Average	
		point121	121	5,696.1	909.5	0.00				Average	
		point122	122	6,151.5	1,232.7	0.00				Average	
		point123	123	6,566.5	1,420.0	0.00				Average	
		point124	124	6,871.3	1,522.9	0.00				Average	
		point125	125	7,631.6	1,699.1	0.00				Average	
		point126	126	7,778.4	1,739.6	0.00				Average	
		point127	127	7,892.3	1,827.7	0.00				Average	
		point128	128	8,156.7	2,154.6	0.00				Average	
		point129	129	8,300.0	2,253.7	0.00				Average	
		point130	130	8,615.8	2,319.8	0.00				Average	
		point131	131	8,876.5	2,301.4	0.00				Average	
		point132	132	9,185.0	2,117.8	0.00				Average	
		point133	133	9,311.7	2,070.1	0.00					
East Camino Del Rio (W of Int 27)	20.0	point530	530	2,726.1	-320.7	0.00				Average	

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		point193	193	2,873.0	-265.6	0.00				Average	
		point194	194	3,030.9	-236.3	0.00				Average	
		point195	195	3,229.3	-203.2	0.00				Average	
		point196	196	3,493.7	-166.5	0.00				Average	
		point197	197	3,651.6	-63.6	0.00				Average	
		point198	198	4,569.8	799.4	0.00				Average	
		point199	199	4,705.6	880.2	0.00				Average	
		point200	200	4,782.7	898.6	0.00				Average	
		point201	201	4,841.5	891.2	0.00				Average	
		point202	202	4,911.3	828.8	0.00				Average	
		point203	203	5,010.5	678.2	0.00				Average	
		point204	204	5,069.2	586.4	0.00				Average	
		point205	205	5,227.1	560.7	0.00				Average	
		point206	206	5,465.8	703.9	0.00				Average	
		point207	207	5,814.7	964.7	0.00				Average	
		point208	208	6,152.6	1,207.1	0.00				Average	
		point209	209	6,420.7	1,342.9	0.00				Average	
		point210	210	6,619.0	1,431.1	0.00				Average	
		point211	211	6,931.2	1,522.9	0.00				Average	
		point212	212	7,379.2	1,625.7	0.00				Average	
		point213	213	7,742.8	1,706.5	0.00				Average	
		point214	214	7,864.0	1,761.6	0.00				Average	
		point215	215	8,033.0	1,967.3	0.00				Average	
		point216	216	8,201.9	2,180.2	0.00				Average	
		point217	217	8,315.7	2,239.0	0.00				Average	
		point218	218	8,697.7	2,301.4	0.00				Average	
		point219	219	8,851.9	2,275.8	0.00				Average	
		point220	220	9,160.4	2,088.5	0.00				Average	
		point221	221	9,296.3	2,040.7	0.00					
West Twain Ave	20.0	point533	533	12,169.7	3,967.3	0.00				Average	
		point411	411	12,779.4	3,956.3	0.00					
East Twain Ave	20.0	point534	534	12,180.7	3,941.6	0.00				Average	
		point532	532	12,783.0	3,923.3	0.00					
East Friars (W of Int 9)	40.0	point538	538	6,270.2	4,544.9	20.00				Average	
		point539	539	6,057.2	4,464.1	20.00				Average	
		point540	540	5,925.0	4,427.4	20.00				Average	
		point541	541	5,737.7	4,409.0	20.00				Average	
		point542	542	5,388.8	4,383.3	20.00				Average	
		point543	543	5,230.9	4,357.6	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point563	563	5,032.6	4,295.1	20.00				Average	
		point564	564	4,830.6	4,203.3	20.00				Average	
		point565	565	4,595.5	4,067.5	20.00				Average	
		point566	566	4,349.5	3,905.8	20.00				Average	
		point567	567	4,220.9	3,803.0	20.00				Average	
		point568	568	3,985.9	3,590.0	20.00					
4 west Friars east of 805	40.0	point579	579	2,736.1	2,516.1	0.00				Average	
		point580	580	2,350.4	2,126.9	0.00				Average	
		point581	581	2,130.1	1,935.9	0.00				Average	
		point582	582	1,924.4	1,767.0	0.00				Average	
		point583	583	1,645.3	1,524.6	0.00					
4 East Friars east of 805	40.0	point584	584	2,776.4	2,475.8	0.00				Average	
		point585	585	2,508.3	2,189.3	0.00				Average	
		point586	586	2,321.1	2,035.0	0.00				Average	
		point587	587	2,152.1	1,866.1	0.00				Average	
		point588	588	1,961.2	1,715.6	0.00				Average	
		point589	589	1,685.7	1,491.5	0.00					
North River Run Dr	12.0	point590	590	2,471.7	1,092.6	0.00				Average	
		point591	591	2,273.7	1,256.6	0.00				Average	
		point592	592	2,157.8	1,399.4	0.00				Average	
		point593	593	1,962.7	1,696.4	0.00					
South River Run Dr	12.0	point594	594	2,478.7	1,132.2	0.00				Average	
		point595	595	2,319.0	1,259.4	0.00				Average	
		point596	596	2,234.1	1,354.2	0.00				Average	
		point597	597	2,101.2	1,528.1	0.00				Average	
		point598	598	1,995.2	1,707.7	0.00					
9 West Friars (15 to Rancho Mission)	40.0	point601	601	8,165.9	5,163.1	20.00				Average	Y
		point42	42	8,481.7	5,247.6	20.00				Average	
		point43	43	9,190.6	5,438.6	10.00				Average	
		point44	44	9,583.5	5,541.4	5.00				Average	
		point45	45	9,910.4	5,629.5	0.00				Average	
		point46	46	10,233.5	5,721.3	0.00				Average	
		point553	553	10,431.9	5,787.4	0.00				Average	Y
		point554	554	11,004.8	5,985.8	0.00					
9 East Friars (15 to Rancho Mission)	40.0	point602	602	8,228.7	5,142.9	15.00				Average	Y
		point72	72	8,851.2	5,313.7	10.00				Average	
		point73	73	9,578.4	5,490.0	10.00				Average	
		point74	74	10,155.0	5,636.9	10.00				Average	
		point75	75	10,738.9	5,842.5	5.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point76	76	11,010.7	5,930.7	0.00					
I-15 North	90.0	point603	603	8,885.7	-269.3	60.00				Average	
		point604	604	9,006.9	222.8	50.00				Average	
		point605	605	9,010.6	527.6	40.00				Average	
		point606	606	8,984.9	902.2	30.00				Average	
		point607	607	8,915.1	1,225.4	30.00				Average	Y
		point608	608	8,610.3	2,253.7	20.00				Average	Y
		point609	609	8,503.8	2,617.3	20.00				Average	Y
		point610	610	8,305.4	3,348.1	10.00				Average	
		point611	611	8,235.7	3,649.3	0.00				Average	
		point612	612	8,187.9	3,895.3	0.00				Average	
		point613	613	8,169.6	4,185.5	0.00				Average	
		point614	614	8,180.6	4,505.0	0.00				Average	
		point615	615	8,221.0	4,776.7	10.00				Average	
		point616	616	8,265.1	4,975.1	10.00				Average	
		point617	617	8,613.9	6,051.1	10.00				Average	
		point618	618	8,819.6	6,701.2	20.00				Average	
		point619	619	8,896.8	7,046.4	30.00				Average	Y
		point620	620	8,922.4	7,288.8	40.00				Average	Y
		point621	621	8,922.4	7,476.1	50.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

Dudek		22 February 2019										
CB		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		SDSU West Campus										
RUN:		Horizon Year with Project										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
South Mission Village Dr 26	point9	9	1090	45	22	45	11	45	0	0	0	0
	point8	8	1090	45	22	45	11	45	0	0	0	0
	point7	7	1090	45	22	45	11	45	0	0	0	0
	point6	6	1090	45	22	45	11	45	0	0	0	0
	point5	5	1090	45	22	45	11	45	0	0	0	0
	point4	4	1090	45	22	45	11	45	0	0	0	0
	point3	3	1090	45	22	45	11	45	0	0	0	0
	point2	2	1090	45	22	45	11	45	0	0	0	0
	point1	1										
North Mission Village Dr	point15	15	1090	45	22	45	11	45	0	0	0	0
	point16	16	1090	45	22	45	11	45	0	0	0	0
	point17	17	1090	45	22	45	11	45	0	0	0	0
	point18	18	1090	45	22	45	11	45	0	0	0	0
	point19	19	1090	45	22	45	11	45	0	0	0	0
	point535	535	1090	45	22	45	11	45	0	0	0	0
	point20	20	1090	45	22	45	11	45	0	0	0	0
	point21	21	1090	45	22	45	11	45	0	0	0	0
	point22	22	1090	45	22	45	11	45	0	0	0	0
	point23	23	1090	45	22	45	11	45	0	0	0	0
	point537	537										
westFriars (W of Int 9)	point58	58	3347	45	69	45	35	45	0	0	0	0
	point59	59	3347	45	69	45	35	45	0	0	0	0
	point60	60	3347	45	69	45	35	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point61	61	3347	45	69	45	35	45	0	0	0	0
	point62	62	3347	45	69	45	35	45	0	0	0	0
	point555	555	3347	45	69	45	35	45	0	0	0	0
	point556	556	3347	45	69	45	35	45	0	0	0	0
	point557	557	3347	45	69	45	35	45	0	0	0	0
	point558	558	3347	45	69	45	35	45	0	0	0	0
	point559	559	3347	45	69	45	35	45	0	0	0	0
	point560	560	3347	45	69	45	35	45	0	0	0	0
	point561	561	3347	45	69	45	35	45	0	0	0	0
	point562	562										
17 West San Diego Mission Rd	point77	77	804	45	17	45	8	45	0	0	0	0
	point78	78	449	45	9	45	5	45	0	0	0	0
	point79	79	449	45	9	45	5	45	0	0	0	0
	point80	80	449	45	9	45	5	45	0	0	0	0
	point81	81	449	45	9	45	5	45	0	0	0	0
	point82	82	449	45	9	45	5	45	0	0	0	0
	point83	83	449	45	9	45	5	45	0	0	0	0
	point84	84	449	45	9	45	5	45	0	0	0	0
	point85	85	449	45	9	45	5	45	0	0	0	0
	point86	86	449	45	9	45	5	45	0	0	0	0
	point87	87										
17 East San Diego Mission Rd	point88	88	804	45	17	45	8	45	0	0	0	0
	point89	89	804	45	17	45	8	45	0	0	0	0
	point90	90	804	45	17	45	8	45	0	0	0	0
	point91	91	804	45	17	45	8	45	0	0	0	0
	point92	92	804	45	17	45	8	45	0	0	0	0
	point93	93	804	45	17	45	8	45	0	0	0	0
	point94	94	804	45	17	45	8	45	0	0	0	0
	point95	95	804	45	17	45	8	45	0	0	0	0
	point96	96										
22 North Ward Rd	point97	97	902	45	19	45	9	45	0	0	0	0
	point98	98										
22 South Ward Row	point102	102	902	45	19	45	9	45	0	0	0	0
	point103	103										
16 South Fenton Pkwy (S of Int 9)	point242	242	372	30	8	30	4	30	0	0	0	0
	point243	243	372	30	8	30	4	30	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point244	244	372	30	8	30	4	30	0	0	0	0
	point245	245	372	30	8	30	4	30	0	0	0	0
	point246	246	372	30	8	30	4	30	0	0	0	0
	point247	247	372	30	8	30	4	30	0	0	0	0
	point248	248	372	30	8	30	4	30	0	0	0	0
	point249	249	372	30	8	30	4	30	0	0	0	0
	point250	250	372	30	8	30	4	30	0	0	0	0
	point251	251	372	30	8	30	4	30	0	0	0	0
	point252	252	372	30	8	30	4	30	0	0	0	0
	point253	253										
16 North Fenton Pkwy (S of Int 9)	point255	255	372	30	8	30	4	30	0	0	0	0
	point256	256	372	30	8	30	4	30	0	0	0	0
	point257	257	372	30	8	30	4	30	0	0	0	0
	point258	258	372	30	8	30	4	30	0	0	0	0
	point259	259	372	30	8	30	4	30	0	0	0	0
	point260	260	372	30	8	30	4	30	0	0	0	0
	point261	261										
South Fenton Pkwy (N of Int 9)	point268	268	0	0	0	0	0	0	0	0	0	0
	point269	269	0	0	0	0	0	0	0	0	0	0
	point270	270	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point274	274										
North Fenton Pkwy (N of Int 9)	point275	275	0	0	0	0	0	0	0	0	0	0
	point276	276	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point280	280	0	0	0	0	0	0	0	0	0	0
	point281	281	0	0	0	0	0	0	0	0	0	0
	point282	282	0	0	0	0	0	0	0	0	0	0
	point571	571										
North Northside Dr	point283	283	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point286	286	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point289	289										
South Northside Dr	point291	291	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point293	293	0	0	0	0	0	0	0	0	0	0
	point294	294	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point297	297										
15 West Rio San Diego Dr	point299	299	692	45	14	45	7	45	0	0	0	0
	point300	300	692	45	14	45	7	45	0	0	0	0
	point301	301	692	45	14	45	7	45	0	0	0	0
	point302	302	692	45	14	45	7	45	0	0	0	0
	point303	303	692	45	14	45	7	45	0	0	0	0
	point304	304	692	45	14	45	7	45	0	0	0	0
	point305	305	692	45	14	45	7	45	0	0	0	0
	point306	306	692	45	14	45	7	45	0	0	0	0
	point307	307	692	45	14	45	7	45	0	0	0	0
	point577	577										
15 East Rio San Diego Dr	point308	308	692	45	14	45	7	45	0	0	0	0
	point309	309	692	45	14	45	7	45	0	0	0	0
	point310	310	692	45	14	45	7	45	0	0	0	0
	point311	311	692	45	14	45	7	45	0	0	0	0
	point312	312	692	45	14	45	7	45	0	0	0	0
	point313	313	692	45	14	45	7	45	0	0	0	0
	point314	314	692	45	14	45	7	45	0	0	0	0
	point315	315	692	45	14	45	7	45	0	0	0	0
	point578	578										
I15 South	point316	316	11418	65	235	65	118	65	0	0	0	0
	point318	318	11418	65	235	65	118	65	0	0	0	0
	point319	319	11418	65	235	65	118	65	0	0	0	0
	point320	320	11418	65	235	65	118	65	0	0	0	0
	point321	321	11418	65	235	65	118	65	0	0	0	0
	point 322	322	11418	65	235	65	118	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point323	323	11418	65	235	65	118	65	0	0	0	0
	point324	324	11418	65	235	65	118	65	0	0	0	0
	point325	325	11418	65	235	65	118	65	0	0	0	0
	point326	326	11418	65	235	65	118	65	0	0	0	0
	point327	327	11418	65	235	65	118	65	0	0	0	0
	point328	328	11418	65	235	65	118	65	0	0	0	0
	point329	329	11418	65	235	65	118	65	0	0	0	0
	point330	330										
I8 West	point354	354	12386	65	255	65	128	65	0	0	0	0
	point355	355	12386	65	255	65	128	65	0	0	0	0
	point356	356	12386	65	255	65	128	65	0	0	0	0
	point357	357	12386	65	255	65	128	65	0	0	0	0
	point358	358	12386	65	255	65	128	65	0	0	0	0
	point359	359	12386	65	255	65	128	65	0	0	0	0
	point360	360	12386	65	255	65	128	65	0	0	0	0
	point361	361	12386	65	255	65	128	65	0	0	0	0
	point362	362	12386	65	255	65	128	65	0	0	0	0
	point363	363	12386	65	255	65	128	65	0	0	0	0
	point364	364	12386	65	255	65	128	65	0	0	0	0
	point365	365	12386	65	255	65	128	65	0	0	0	0
	point548	548	12386	65	255	65	128	65	0	0	0	0
	point549	549	12386	65	255	65	128	65	0	0	0	0
	point550	550	12386	65	255	65	128	65	0	0	0	0
	point551	551	12386	65	255	65	128	65	0	0	0	0
	point552	552										
I8 East	point366	366	12299	65	254	65	127	65	0	0	0	0
	point367	367	12299	65	254	65	127	65	0	0	0	0
	point368	368	12299	65	254	65	127	65	0	0	0	0
	point369	369	12299	65	254	65	127	65	0	0	0	0
	point370	370	12299	65	254	65	127	65	0	0	0	0
	point371	371	12299	65	254	65	127	65	0	0	0	0
	point 372	372	12299	65	254	65	127	65	0	0	0	0
	point373	373	12299	65	254	65	127	65	0	0	0	0
	point374	374	12299	65	254	65	127	65	0	0	0	0
	point375	375	12299	65	254	65	127	65	0	0	0	0
	point376	376	12299	65	254	65	127	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point377	377	12299	65	254	65	127	65	0	0	0	0
	point378	378	12299	65	254	65	127	65	0	0	0	0
	point547	547										
19 South Rancho Mission Rd (S friars)	point379	379	1139	45	23	45	12	45	0	0	0	0
	point380	380	1139	45	23	45	12	45	0	0	0	0
	point381	381	1139	45	23	45	12	45	0	0	0	0
	point382	382	1139	45	23	45	12	45	0	0	0	0
	point383	383	1139	45	23	45	12	45	0	0	0	0
	point384	384	1139	45	23	45	12	45	0	0	0	0
	point385	385	1139	45	23	45	12	45	0	0	0	0
	point386	386	1139	45	23	45	12	45	0	0	0	0
	point387	387	1139	45	23	45	12	45	0	0	0	0
	point388	388	1139	45	23	45	12	45	0	0	0	0
	point572	572										
19 North Mission Road (S of Friars)	point389	389	1139	45	23	45	12	45	0	0	0	0
	point390	390	1139	45	23	45	12	45	0	0	0	0
	point391	391	1139	45	23	45	12	45	0	0	0	0
	point392	392	1139	45	23	45	12	45	0	0	0	0
	point393	393	1139	45	23	45	12	45	0	0	0	0
	point394	394	1139	45	23	45	12	45	0	0	0	0
	point395	395	1139	45	23	45	12	45	0	0	0	0
	point396	396	1139	45	23	45	12	45	0	0	0	0
	point397	397	1139	45	23	45	12	45	0	0	0	0
	point398	398	1139	45	23	45	12	45	0	0	0	0
	point399	399										
West San Diego Mission Rd 18	point401	401	923	45	19	45	10	45	0	0	0	0
	point402	402	923	45	19	45	10	45	0	0	0	0
	point403	403	923	45	19	45	10	45	0	0	0	0
	point404	404	923	45	19	45	10	45	0	0	0	0
	point405	405	923	45	19	45	10	45	0	0	0	0
	point406	406	923	45	19	45	10	45	0	0	0	0
	point407	407	923	45	19	45	10	45	0	0	0	0
	point408	408	923	45	19	45	10	45	0	0	0	0
	point409	409	923	45	19	45	10	45	0	0	0	0
	point410	410	923	45	19	45	10	45	0	0	0	0
	point575	575	923	45	19	45	10	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point576	576										
East San Diego Mission Rd 18	point424	424	923	45	19	45	10	45	0	0	0	0
	point425	425	923	45	19	45	10	45	0	0	0	0
	point426	426	923	45	19	45	10	45	0	0	0	0
	point427	427	923	45	19	45	10	45	0	0	0	0
	point428	428	923	45	19	45	10	45	0	0	0	0
	point429	429	923	45	19	45	10	45	0	0	0	0
	point430	430	923	45	19	45	10	45	0	0	0	0
	point431	431	923	45	19	45	10	45	0	0	0	0
	point432	432	923	45	19	45	10	45	0	0	0	0
	point433	433	923	45	19	45	10	45	0	0	0	0
	point434	434										
South Fairmount Ave (N of Int 25)	point436	436	0	0	0	0	0	0	0	0	0	0
	point437	437										
North Fairmount Ave (N of Int 25)	point438	438	0	0	0	0	0	0	0	0	0	0
	point439	439										
23 South Fairmount Ave (S of Int 25)	point440	440	625	45	13	45	6	45	0	0	0	0
	point441	441	625	45	13	45	6	45	0	0	0	0
	point442	442	625	45	13	45	6	45	0	0	0	0
	point443	443										
23 North Fairmount Ave (S of Int 25)	point444	444	625	45	13	45	6	45	0	0	0	0
	point445	445	625	45	13	45	6	45	0	0	0	0
	point446	446	625	45	13	45	6	45	0	0	0	0
	point574	574										
South Mission Gorge Rd	point462	462	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point466	466	0	0	0	0	0	0	0	0	0	0
	point467	467										
North Mission Gorge Rd	point469	469	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point472	472	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point475	475										
West Camino Del Rio (E of Int 27)	point528	528	0	0	0	0	0	0	0	0	0	0
	point527	527	0	0	0	0	0	0	0	0	0	0
	point526	526	0	0	0	0	0	0	0	0	0	0
	point105	105	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454										
East Camino Del Rio (E of Int 27)	point461	461	0	0	0	0	0	0	0	0	0	0
	point460	460	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point455	455	0	0	0	0	0	0	0	0	0	0
	point190	190	0	0	0	0	0	0	0	0	0	0
	point192	192										
South Stadium Way	point478	478	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point569	569										
North Stadium Way	point484	484	0	0	0	0	0	0	0	0	0	0
	point485	485	0	0	0	0	0	0	0	0	0	0
	point486	486	0	0	0	0	0	0	0	0	0	0
	point487	487	0	0	0	0	0	0	0	0	0	0
	point488	488	0	0	0	0	0	0	0	0	0	0
	point570	570										
West Stadium Way (W of Int 26)	point489	489	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point490	490	0	0	0	0	0	0	0	0	0	0
	point491	491	0	0	0	0	0	0	0	0	0	0
	point492	492	0	0	0	0	0	0	0	0	0	0
	point493	493	0	0	0	0	0	0	0	0	0	0
	point494	494	0	0	0	0	0	0	0	0	0	0
	point495	495	0	0	0	0	0	0	0	0	0	0
	point496	496	0	0	0	0	0	0	0	0	0	0
	point497	497	0	0	0	0	0	0	0	0	0	0
	point498	498										
East Stadium Way (W of Int 26)	point499	499	0	0	0	0	0	0	0	0	0	0
	point500	500	0	0	0	0	0	0	0	0	0	0
	point501	501	0	0	0	0	0	0	0	0	0	0
	point502	502	0	0	0	0	0	0	0	0	0	0
	point503	503	0	0	0	0	0	0	0	0	0	0
	point504	504	0	0	0	0	0	0	0	0	0	0
	point505	505	0	0	0	0	0	0	0	0	0	0
	point506	506	0	0	0	0	0	0	0	0	0	0
	point507	507	0	0	0	0	0	0	0	0	0	0
	point573	573										
5 West Friars- (W of Int 10)	point509	509	2644	45	55	45	27	45	0	0	0	0
	point32	32										
5 East Friars (W of Int 10)	point510	510	2644	45	55	45	27	45	0	0	0	0
	point63	63										
8 West Friars (Mission to 15)	point523	523	3684	45	76	45	38	45	0	0	0	0
	point40	40	3684	45	76	45	38	45	0	0	0	0
	point41	41	3684	45	76	45	38	45	0	0	0	0
	point600	600										
8 East Friars (Mission to 15)	point524	524	3684	45	76	45	38	45	0	0	0	0
	point521	521	3684	45	76	45	38	45	0	0	0	0
	point522	522	3684	45	76	45	38	45	0	0	0	0
	point71	71	3684	45	76	45	38	45	0	0	0	0
	point599	599										
West Camino Del Rio (W of Int 27)	point529	529	0	0	0	0	0	0	0	0	0	0
	point106	106	0	0	0	0	0	0	0	0	0	0
	point107	107	0	0	0	0	0	0	0	0	0	0
	point108	108	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point109	109	0	0	0	0	0	0	0	0	0	0
	point110	110	0	0	0	0	0	0	0	0	0	0
	point111	111	0	0	0	0	0	0	0	0	0	0
	point112	112	0	0	0	0	0	0	0	0	0	0
	point113	113	0	0	0	0	0	0	0	0	0	0
	point114	114	0	0	0	0	0	0	0	0	0	0
	point115	115	0	0	0	0	0	0	0	0	0	0
	point116	116	0	0	0	0	0	0	0	0	0	0
	point117	117	0	0	0	0	0	0	0	0	0	0
	point118	118	0	0	0	0	0	0	0	0	0	0
	point119	119	0	0	0	0	0	0	0	0	0	0
	point120	120	0	0	0	0	0	0	0	0	0	0
	point121	121	0	0	0	0	0	0	0	0	0	0
	point122	122	0	0	0	0	0	0	0	0	0	0
	point123	123	0	0	0	0	0	0	0	0	0	0
	point124	124	0	0	0	0	0	0	0	0	0	0
	point125	125	0	0	0	0	0	0	0	0	0	0
	point126	126	0	0	0	0	0	0	0	0	0	0
	point127	127	0	0	0	0	0	0	0	0	0	0
	point128	128	0	0	0	0	0	0	0	0	0	0
	point129	129	0	0	0	0	0	0	0	0	0	0
	point130	130	0	0	0	0	0	0	0	0	0	0
	point131	131	0	0	0	0	0	0	0	0	0	0
	point132	132	0	0	0	0	0	0	0	0	0	0
	point133	133										
East Camino Del Rio (W of Int 27)	point530	530	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point211	211	0	0	0	0	0	0	0	0	0	0
	point212	212	0	0	0	0	0	0	0	0	0	0
	point213	213	0	0	0	0	0	0	0	0	0	0
	point214	214	0	0	0	0	0	0	0	0	0	0
	point215	215	0	0	0	0	0	0	0	0	0	0
	point216	216	0	0	0	0	0	0	0	0	0	0
	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221										
West Twain Ave	point533	533	0	0	0	0	0	0	0	0	0	0
	point411	411										
East Twain Ave	point534	534	0	0	0	0	0	0	0	0	0	0
	point532	532										
East Friars (W of Int 9)	point538	538	3347	45	69	45	35	45	0	0	0	0
	point539	539	3347	45	69	45	35	45	0	0	0	0
	point540	540	3347	45	69	45	35	45	0	0	0	0
	point541	541	3347	45	69	45	35	45	0	0	0	0
	point542	542	3347	45	69	45	35	45	0	0	0	0
	point543	543	3347	45	69	45	35	45	0	0	0	0
	point563	563	3347	45	69	45	35	45	0	0	0	0
	point564	564	3347	45	69	45	35	45	0	0	0	0
	point565	565	3347	45	69	45	35	45	0	0	0	0
	point566	566	3347	45	69	45	35	45	0	0	0	0
	point567	567	3347	45	69	45	35	45	0	0	0	0
	point568	568										
4 west Friars east of 805	point579	579	2543	45	52	45	26	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point580	580	2543	45	52	45	26	45	0	0	0	0
	point581	581	2543	45	52	45	26	45	0	0	0	0
	point582	582	2543	45	52	45	26	45	0	0	0	0
	point583	583										
4 East Friars east of 805	point584	584	2543	45	52	45	26	45	0	0	0	0
	point585	585	2543	45	52	45	26	45	0	0	0	0
	point586	586	2543	45	52	45	26	45	0	0	0	0
	point587	587	2543	45	52	45	26	45	0	0	0	0
	point588	588	2543	45	52	45	26	45	0	0	0	0
	point589	589										
North River Run Dr	point590	590	0	0	0	0	0	0	0	0	0	0
	point591	591	0	0	0	0	0	0	0	0	0	0
	point592	592	0	0	0	0	0	0	0	0	0	0
	point593	593										
South River Run Dr	point594	594	0	0	0	0	0	0	0	0	0	0
	point595	595	0	0	0	0	0	0	0	0	0	0
	point596	596	0	0	0	0	0	0	0	0	0	0
	point597	597	0	0	0	0	0	0	0	0	0	0
	point598	598										
9 West Friars (15 to Rancho Mission)	point601	601	3853	45	79	45	40	45	0	0	0	0
	point42	42	3853	45	79	45	40	45	0	0	0	0
	point43	43	3853	45	79	45	40	45	0	0	0	0
	point44	44	3853	45	79	45	40	45	0	0	0	0
	point45	45	3853	45	79	45	40	45	0	0	0	0
	point46	46	3853	45	79	45	40	45	0	0	0	0
	point553	553	3853	45	79	45	40	45	0	0	0	0
	point554	554										
9 East Friars (15 to Rancho Mission)	point602	602	3853	45	79	45	40	45	0	0	0	0
	point72	72	3853	45	79	45	40	45	0	0	0	0
	point73	73	3853	45	79	45	40	45	0	0	0	0
	point74	74	3853	45	79	45	40	45	0	0	0	0
	point75	75	3853	45	79	45	40	45	0	0	0	0
	point76	76										
I-15 North	point603	603	9701	65	200	65	100	65	0	0	0	0
	point604	604	9701	65	200	65	100	65	0	0	0	0
	point605	605	9701	65	200	65	100	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**SDSU West Campus**

	point606	606	9701	65	200	65	100	65	0	0	0	0
	point607	607	9701	65	200	65	100	65	0	0	0	0
	point608	608	9701	65	200	65	100	65	0	0	0	0
	point609	609	9701	65	200	65	100	65	0	0	0	0
	point610	610	9701	65	200	65	100	65	0	0	0	0
	point611	611	9701	65	200	65	100	65	0	0	0	0
	point612	612	9701	65	200	65	100	65	0	0	0	0
	point613	613	9701	65	200	65	100	65	0	0	0	0
	point614	614	9701	65	200	65	100	65	0	0	0	0
	point615	615	9701	65	200	65	100	65	0	0	0	0
	point616	616	9701	65	200	65	100	65	0	0	0	0
	point617	617	9701	65	200	65	100	65	0	0	0	0
	point618	618	9701	65	200	65	100	65	0	0	0	0
	point619	619	9701	65	200	65	100	65	0	0	0	0
	point620	620	9701	65	200	65	100	65	0	0	0	0
	point621	621										

INPUT: RECEIVERS

SDSU West Campus

							22 February 2019					
							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:							SDSU West Campus					
RUN:							Horizon Year with Project					
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST9	1	1	5,119.4	6,645.4	250.00	4.92	52.50	66	10.0	8.0	Y	
ST10	2	1	6,573.6	5,525.0	200.00	4.92	52.80	66	10.0	8.0	Y	
ST1	3	1	8,338.7	3,886.4	0.00	4.92	77.40	66	10.0	8.0	Y	
ST2a	4	1	8,632.8	2,814.1	0.00	4.92	72.20	66	10.0	8.0	Y	
ST8	5	1	9,471.6	2,808.0	0.00	4.92	67.00	66	10.0	8.0	Y	
ST3	6	1	4,776.5	4,099.3	0.00	4.92	64.90	66	10.0	8.0	Y	
ST5	8	1	4,729.6	3,692.2	0.00	4.92	53.70	66	10.0	8.0	Y	
ST4	9	1	8,367.3	347.6	150.00	4.92	69.10	66	10.0	8.0	Y	
ST7	10	1	4,336.6	1,707.8	0.00	4.92	59.00	66	10.0	8.0	Y	
ST6	11	1	5,594.8	1,170.3	0.00	4.92	65.10	66	10.0	8.0	Y	

INPUT: BUILDING ROWS

SDSU West Campus

Dudek								22 February 2019
CB								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:			SDSU West Campus					
RUN:			Horizon Year with Project					
Building Row			Points					
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building2-Building1	30.00	80	5	4,686.0	3,683.4	0.00		
			6	4,513.6	3,879.2	0.00		
			1	4,511.5	3,881.2	0.00		
			2	4,596.4	3,958.3	0.00		
			3	4,777.9	3,758.9	0.00		
			4	4,689.1	3,681.0	0.00		
Building10	20.00	50	29	6,423.0	5,510.9	200.00		
			30	6,480.1	5,374.0	200.00		
			31	6,537.1	5,323.8	200.00		
			32	6,614.7	5,328.3	200.00		
			33	6,686.6	5,339.7	200.00		
			34	6,712.8	5,358.0	200.00		
			35	6,691.1	5,443.5	200.00		
			36	6,682.0	5,510.9	200.00		
			37	6,674.0	5,539.4	200.00		
Building11	20.00	80	47	5,448.5	6,823.5	250.00		
			48	5,254.6	6,581.5	250.00		
			49	5,342.4	6,530.2	250.00		
			50	5,513.6	6,774.4	250.00		
Building12	20.00	80	51	5,131.6	6,657.7	250.00		
			52	5,197.3	6,592.4	250.00		
			53	5,445.6	6,881.1	250.00		
			54	5,196.4	7,337.2	250.00		
			55	5,118.2	7,293.4	250.00		

INPUT: BUILDING ROWS**SDSU West Campus**

			56	5,316.7	6,898.3	250.00
			57	5,132.0	6,658.6	250.00

INPUT: GROUND ZONES

SDSU West Campus

Dudek				22 February 2019	
CB				TNM 2.5	
INPUT: GROUND ZONES					
PROJECT/CONTRACT:		SDSU West Campus			
RUN:		Horizon Year with Project			
Ground Zone				Points	
Name	Type	Flow	No.	Coordinates	
		Resistivity		X	Y
		cgs rayls		ft	ft
Ground Zone1	Loose Soil	500	1	4,727.0	1,193.7
			2	6,088.3	1,805.5
			3	6,380.8	1,386.8
			4	5,170.6	620.1
Ground Zone2	Loose Soil	500	5	5,116.5	6,663.9
			6	5,298.1	6,895.3
			7	5,101.2	7,315.9
			8	5,005.6	7,233.7
			9	5,129.9	6,977.5
			10	5,041.9	6,748.0

RESULTS: SOUND LEVELS

SDSU West Campus

Dudek													27 February 2019	
CB													TNM 2.5	
													Calculated with TNM 2.5	
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:			SDSU West Campus											
RUN:			Existing											
BARRIER DESIGN:			INPUT HEIGHTS										Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.	
ATMOSPHERICS:			68 deg F, 50% RH											
Receiver														
Name		No.	#DUs	Existing LAeq1h	No Barrier LAeq1h	Increase over existing		Type	With Barrier		Noise Reduction			
					Calculated	Crit'n	Calculated	Crit'n	Impact	Calculated LAeq1h	Calculated	Goal	Calculated minus Goal	
				dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
ST9		1	1	52.5	56.7	66	4.2	10	----	56.7	0.0	8	-8.0	
ST10		2	1	52.8	56.7	66	3.9	10	----	56.7	0.0	8	-8.0	
ST1		3	1	77.4	79.1	66	1.7	10	Snd Lvl	79.1	0.0	8	-8.0	
ST2a		4	1	72.2	75.8	66	3.6	10	Snd Lvl	75.8	0.0	8	-8.0	
ST8		5	1	67.0	69.2	66	2.2	10	Snd Lvl	69.2	0.0	8	-8.0	
ST3		6	1	64.9	65.0	66	0.1	10	----	65.0	0.0	8	-8.0	
ST5		8	1	53.7	58.0	66	4.3	10	----	58.0	0.0	8	-8.0	
ST4		9	1	69.1	71.4	66	2.3	10	Snd Lvl	71.4	0.0	8	-8.0	
ST7		10	1	59.0	60.6	66	1.6	10	----	60.6	0.0	8	-8.0	
ST6		11	1	65.1	68.9	66	3.8	10	Snd Lvl	68.9	0.0	8	-8.0	
Dwelling Units			# DUs	Noise Reduction										
				Min	Avg	Max								
				dB	dB	dB								
All Selected			10	0.0	0.0	0.0								
All Impacted			5	0.0	0.0	0.0								
All that meet NR Goal			0	0.0	0.0	0.0								

INPUT: ROADWAYS

SDSU West Campus

Dudek CB				27 February 2019 TNM 2.5							
INPUT: ROADWAYS				SDSU West Campus			Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA				
PROJECT/CONTRACT:				Existing							
RUN:				Existing							
Roadway Name	Width	Points Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
South Mission Village Dr 26	30.0	point9	9	6,292.3	4,593.3	0.00				Average	
		point8	8	6,222.5	5,085.5	50.00				Average	
		point7	7	6,196.8	5,331.5	60.00				Average	
		point6	6	6,141.7	5,651.1	70.00				Average	
		point5	5	6,024.1	5,904.5	120.00				Average	
		point4	4	5,840.5	6,253.3	150.00				Average	
		point3	3	5,642.2	6,613.3	200.00				Average	
		point2	2	5,451.2	6,929.1	240.00				Average	
		point1	1	5,234.5	7,325.7	240.00					
North Mission Village Dr	30.0	point15	15	6,329.0	4,615.4	0.00				Average	
		point16	16	6,284.9	4,909.2	0.00				Average	
		point17	17	6,248.2	5,265.4	50.00				Average	
		point18	18	6,207.8	5,478.4	60.00				Average	
		point19	19	6,174.7	5,636.4	80.00				Average	
		point535	535	6,049.9	5,937.5	120.00				Average	
		point20	20	5,866.2	6,257.0	150.00				Average	
		point21	21	5,701.0	6,561.8	200.00				Average	
		point22	22	5,506.3	6,899.7	240.00				Average	
		point23	23	5,289.7	7,296.3	240.00				Average	
		point537	537	5,263.9	7,333.1	240.00					
westFriars (W of Int 9)	40.0	point58	58	6,262.9	4,596.3	20.00				Average	
		point59	59	6,116.0	4,533.9	20.00				Average	
		point60	60	5,965.4	4,482.4	20.00				Average	
		point61	61	5,840.5	4,467.7	20.00				Average	
		point62	62	5,495.3	4,427.4	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point555	555	5,263.9	4,412.7	20.00				Average	
		point556	556	5,047.3	4,353.9	20.00				Average	
		point557	557	4,874.6	4,287.8	20.00				Average	
		point558	558	4,628.6	4,129.9	20.00				Average	
		point559	559	4,426.6	4,030.7	20.00				Average	
		point560	560	4,261.4	3,924.2	20.00				Average	
		point561	561	4,055.7	3,744.3	20.00				Average	
		point562	562	3,945.5	3,641.4	20.00					
17 West San Diego Mission Rd	20.0	point77	77	6,442.0	4,400.7	0.00				Average	
		point78	78	6,666.0	4,540.3	0.00				Average	
		point79	79	6,816.6	4,606.3	0.00				Average	
		point80	80	6,970.9	4,676.1	5.00				Average	
		point81	81	7,121.5	4,672.4	10.00				Average	
		point82	82	7,437.3	4,599.0	15.00				Average	
		point83	83	7,955.1	4,444.8	20.00				Average	Y
		point84	84	8,370.1	4,319.9	15.00				Average	
		point85	85	8,730.0	4,213.4	10.00				Average	
		point86	86	9,078.9	4,059.2	5.00				Average	
		point87	87	9,372.7	3,941.6	0.00					
17 East San Diego Mission Rd	20.0	point88	88	6,456.7	4,386.0	0.00				Average	
		point89	89	6,735.8	4,536.6	0.00				Average	
		point90	90	6,952.5	4,632.1	5.00				Average	
		point91	91	7,077.4	4,650.4	10.00				Average	
		point92	92	7,235.3	4,628.4	20.00				Average	Y
		point93	93	7,991.8	4,408.0	20.00				Average	Y
		point94	94	8,557.4	4,239.1	10.00				Average	
		point95	95	9,005.5	4,066.5	5.00				Average	
		point96	96	9,339.7	3,923.3	0.00					
22 North Ward Rd	30.0	point97	97	9,400.6	3,882.1	0.00				Average	
		point98	98	9,386.0	2,130.3	0.00					
South Ward Row	30.0	point102	102	9,367.6	3,893.1	0.00				Average	
		point103	103	9,363.9	2,119.3	0.00					
South Fenton Pkwy (S of Int 9)	30.0	point242	242	4,260.1	1,609.0	0.00				Average	
		point243	243	4,157.3	1,686.2	0.00				Average	
		point244	244	4,076.5	1,733.9	0.00				Average	
		point245	245	3,999.4	1,752.3	0.00				Average	
		point246	246	3,900.2	1,774.3	0.00				Average	
		point247	247	3,782.7	1,800.0	0.00				Average	
		point248	248	3,551.3	1,866.1	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point249	249	3,426.5	1,895.5	0.00				Average
		point250	250	3,294.3	1,980.0	0.00				Average
		point251	251	3,202.5	2,057.1	0.00				Average
		point252	252	3,081.3	2,182.0	0.00				Average
		point253	253	2,805.8	2,472.1	0.00				
16 North Fenton Pkwy (S of Int 9)	30.0	point255	255	2,842.6	2,501.5	0.00				Average
		point256	256	3,283.3	2,024.0	0.00				Average
		point257	257	3,393.4	1,969.0	0.00				Average
		point258	258	3,624.8	1,888.2	0.00				Average
		point259	259	3,859.8	1,840.4	0.00				Average
		point260	260	4,032.4	1,800.0	0.00				Average
		point261	261	4,252.8	1,645.8	0.00				
South Fenton Pkwy (N of Int 9)	30.0	point268	268	2,721.4	2,549.2	0.00				Average
		point269	269	2,523.0	2,776.9	0.00				Average
		point270	270	2,431.2	2,912.8	0.00				Average
		point271	271	2,310.0	3,089.1	0.00				Average
		point272	272	2,240.3	3,228.6	0.00				Average
		point273	273	2,196.2	3,404.9	0.00				Average
		point274	274	2,188.8	3,794.2	0.00				
North Fenton Pkwy (N of Int 9)	30.0	point275	275	2,758.1	2,578.6	0.00				Average
		point276	276	2,548.8	2,846.7	0.00				Average
		point277	277	2,427.6	3,000.9	0.00				Average
		point278	278	2,343.1	3,144.2	0.00				Average
		point279	279	2,295.3	3,232.3	0.00				Average
		point280	280	2,251.3	3,342.5	0.00				Average
		point281	281	2,229.2	3,511.4	0.00				Average
		point282	282	2,225.6	3,753.8	0.00				Average
		point571	571	2,229.2	3,801.5	0.00				
North Northside Dr	12.0	point283	283	3,900.2	3,642.2	0.00				Average
		point284	284	3,735.0	3,818.4	0.00				Average
		point285	285	3,632.2	3,943.3	0.00				Average
		point286	286	3,547.7	3,987.4	0.00				Average
		point287	287	3,444.8	4,075.5	0.00				Average
		point288	288	3,286.9	4,138.0	0.00				Average
		point289	289	3,015.2	4,251.8	0.00				
South Northside Dr	12.0	point291	291	3,870.9	3,606.9	0.00				Average
		point292	292	3,628.5	3,904.4	0.00				Average
		point293	293	3,529.3	3,981.5	0.00				Average
		point294	294	3,437.5	4,040.3	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point295	295	3,305.3	4,099.0	0.00				Average	
		point296	296	3,103.3	4,190.8	0.00				Average	
		point297	297	2,996.8	4,238.6	0.00					
15 West Rio San Diego Dr	30.0	point299	299	1,806.9	609.4	0.00				Average	
		point300	300	2,005.2	675.5	0.00				Average	
		point301	301	2,141.1	741.6	0.00				Average	
		point302	302	2,313.7	888.5	0.00				Average	
		point303	303	2,493.7	1,094.2	0.00				Average	
		point304	304	2,647.9	1,263.1	0.00				Average	
		point305	305	2,835.2	1,509.2	0.00				Average	
		point306	306	2,941.7	1,608.3	0.00				Average	
		point307	307	3,083.5	1,746.2	0.00				Average	
		point577	577	3,261.1	1,998.8	0.00					
15 East Rio San Diego Dr	30.0	point308	308	1,854.6	572.6	0.00				Average	
		point309	309	2,097.0	675.5	0.00				Average	
		point310	310	2,295.3	829.7	0.00				Average	
		point311	311	2,490.0	1,024.4	0.00				Average	
		point312	312	2,692.0	1,263.1	0.00				Average	
		point313	313	2,853.6	1,479.8	0.00				Average	
		point314	314	2,952.7	1,597.3	0.00				Average	
		point315	315	3,084.9	1,711.1	0.00				Average	
		point578	578	3,279.6	1,957.2	0.00					
I15 South	90.0	point316	316	8,797.6	-298.7	75.00				Average	
		point318	318	8,904.1	142.0	60.00				Average	
		point319	319	8,944.5	443.1	40.00				Average	
		point320	320	8,933.5	825.1	20.00				Average	
		point321	321	8,834.3	1,163.0	20.00				Average	Y
		point 322	322	8,562.5	2,121.5	20.00				Average	Y
		point323	323	8,367.9	2,841.3	0.00				Average	
		point324	324	8,118.2	3,763.1	0.00				Average	
		point325	325	8,092.5	4,325.0	0.00				Average	
		point326	326	8,184.3	4,964.0	0.00				Average	
		point327	327	8,290.8	5,313.0	0.00				Average	
		point328	328	8,698.4	6,613.0	0.00				Average	
		point329	329	8,812.3	7,064.8	15.00				Average	
		point330	330	8,834.3	7,472.4	30.00					
I8 West	90.0	point354	354	12,786.7	1,868.8	20.00				Average	
		point355	355	12,470.9	1,791.7	20.00				Average	
		point356	356	12,235.8	1,758.7	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point357	357	11,839.2	1,685.2	20.00				Average	
		point358	358	11,350.8	1,641.1	20.00				Average	
		point359	359	10,715.4	1,589.7	20.00				Average	
		point360	360	9,870.7	1,600.7	20.00				Average	
		point361	361	9,055.4	1,571.4	20.00				Average	
		point362	362	8,122.6	1,560.3	15.00				Average	
		point363	363	7,582.7	1,534.6	10.00				Average	
		point364	364	7,318.3	1,505.2	10.00				Average	
		point365	365	6,793.1	1,373.0	10.00				Average	
		point548	548	6,389.1	1,193.1	10.00				Average	
		point549	549	5,930.1	906.6	10.00				Average	
		point550	550	5,397.6	521.0	10.00				Average	
		point551	551	4,552.9	-44.6	10.00				Average	
		point552	552	4,071.8	-312.7	10.00					
18 East	90.0	point366	366	12,786.7	1,772.6	20.00				Average	
		point367	367	11,949.4	1,629.4	20.00				Average	
		point368	368	11,163.5	1,567.0	20.00				Average	
		point369	369	9,481.4	1,522.9	20.00				Average	
		point370	370	8,691.8	1,497.2	20.00				Average	
		point371	371	7,905.9	1,486.2	20.00				Average	
		point 372	372	7,700.2	1,486.2	25.00				Average	
		point373	373	7,593.7	1,467.8	25.00				Average	
		point374	374	7,193.4	1,372.3	25.00				Average	
		point375	375	6,730.7	1,203.4	25.00				Average	
		point376	376	6,264.3	950.0	25.00				Average	
		point377	377	5,287.4	303.6	25.00				Average	
		point378	378	4,472.1	-203.2	25.00				Average	
		point547	547	4,244.4	-324.4	25.00					
19 South Rancho Mission Rd (S friars)	30.0	point379	379	9,376.4	3,982.0	0.00				Average	
		point380	380	9,387.4	4,239.1	0.00				Average	
		point381	381	9,468.2	4,345.6	0.00				Average	
		point382	382	9,541.7	4,419.1	0.00				Average	
		point383	383	9,684.9	4,448.4	0.00				Average	
		point384	384	9,897.9	4,496.2	0.00				Average	
		point385	385	10,015.4	4,558.6	0.00				Average	
		point386	386	10,085.2	4,698.2	0.00				Average	
		point387	387	10,096.2	4,815.7	0.00				Average	
		point388	388	10,081.5	4,889.1	0.00				Average	
		point572	572	9,919.9	5,531.8	0.00					

INPUT: ROADWAYS

SDSU West Campus

North Mission Road (S of Friars)	30.0	point389	389	9,398.4	3,974.7	0.00				Average
		point390	390	9,416.8	4,231.8	0.00				Average
		point391	391	9,493.9	4,349.3	0.00				Average
		point392	392	9,574.7	4,393.3	0.00				Average
		point393	393	9,780.4	4,433.7	0.00				Average
		point394	394	9,978.7	4,499.8	0.00				Average
		point395	395	10,044.8	4,547.6	0.00				Average
		point396	396	10,107.2	4,694.5	0.00				Average
		point397	397	10,114.6	4,808.3	0.00				Average
		point398	398	10,088.9	4,922.2	0.00				Average
		point399	399	9,956.7	5,546.5	0.00				
West San Diego Mission Rd (E of Int 24)	20.0	point401	401	9,424.1	3,919.6	0.00				Average
		point402	402	10,026.4	3,710.2	0.00				Average
		point403	403	10,360.6	3,603.7	0.00				Average
		point404	404	10,665.5	3,522.9	0.00				Average
		point405	405	10,771.9	3,500.9	0.00				Average
		point406	406	11,209.0	3,453.2	0.00				Average
		point407	407	11,359.6	3,475.2	0.00				Average
		point408	408	11,473.4	3,563.4	0.00				Average
		point409	409	11,627.7	3,721.3	0.00				Average
		point410	410	11,759.9	3,860.8	0.00				Average
		point575	575	11,848.0	3,926.9	0.00				Average
		point576	576	12,127.1	3,971.0	0.00				
East San Diego Mission Rd (E of Int 24)	20.0	point424	424	9,424.1	3,886.5	0.00				Average
		point425	425	10,573.7	3,508.3	0.00				Average
		point426	426	10,889.5	3,449.5	0.00				Average
		point427	427	11,128.2	3,431.1	0.00				Average
		point428	428	11,304.5	3,420.1	0.00				Average
		point429	429	11,407.3	3,464.2	0.00				Average
		point430	430	11,550.5	3,574.4	0.00				Average
		point431	431	11,675.4	3,728.6	0.00				Average
		point432	432	11,800.3	3,849.8	0.00				Average
		point433	433	11,881.1	3,915.9	0.00				Average
		point434	434	12,116.1	3,934.3	0.00				
South Fairmount Ave (N of Int 25)	25.0	point436	436	12,145.5	3,989.4	0.00				Average
		point437	437	12,156.5	5,160.9	0.00				
North Fairmount Ave (N of Int 25)	25.0	point438	438	12,163.8	4,015.1	0.00				Average
		point439	439	12,178.5	5,182.9	0.00				
23 South Fairmont Ave (S of Int 25)	25.0	point440	440	12,147.7	3,926.2	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point441	441	12,144.0	2,644.5	0.00				Average
		point442	442	12,151.4	2,596.7	0.00				Average
		point443	443	12,202.8	2,519.6	0.00				
North Fairmount Ave (S of Int 25)	25.0	point444	444	12,169.7	3,915.2	0.00				Average
		point445	445	12,169.7	2,732.6	0.00				Average
		point446	446	12,177.1	2,644.5	0.00				Average
		point574	574	12,191.8	2,574.7	0.00				
South Mission Gorge Rd	30.0	point462	462	12,136.7	2,064.2	0.00				Average
		point463	463	12,133.0	2,313.9	0.00				Average
		point464	464	12,210.1	2,527.0	0.00				Average
		point465	466	12,353.3	2,710.6	0.00				Average
		point466	466	12,500.3	2,824.4	0.00				Average
		point467	467	12,794.1	2,997.0	0.00				
North Mission Gorge Rd	30.0	point469	469	12,199.1	2,115.6	0.00				Average
		point470	470	12,195.4	2,317.6	0.00				Average
		point471	471	12,257.9	2,504.9	0.00				Average
		point472	472	12,324.0	2,626.1	0.00				Average
		point473	473	12,408.4	2,725.3	0.00				Average
		point474	474	12,533.3	2,809.7	0.00				Average
		point475	475	12,790.4	2,953.0	0.00				
West Camino Del Rio (E of Int 27)	30.0	point528	528	9,396.9	2,075.2	0.00				Average
		point527	527	9,745.9	2,027.5	0.00				Average
		point526	526	10,065.4	1,972.4	0.00				Average
		point105	105	10,252.7	1,910.0	0.00				Average
		point447	447	10,539.1	1,865.9	0.00				Average
		point448	448	10,913.7	1,869.6	0.00				Average
		point449	449	11,299.3	1,843.9	0.00				Average
		point450	450	11,508.7	1,843.9	0.00				Average
		point451	451	11,651.9	1,854.9	0.00				Average
		point452	452	11,791.5	1,921.0	0.00				Average
		point453	453	11,949.4	2,027.5	0.00				Average
		point454	454	12,096.3	2,137.7	0.00				
East Camino Del Rio (E of Int 27)	30.0	point461	461	9,419.0	2,023.8	0.00				Average
		point460	460	9,786.3	1,972.4	0.00				Average
		point459	459	10,047.0	1,924.6	0.00				Average
		point458	458	10,300.4	1,858.6	0.00				Average
		point457	457	10,564.8	1,851.2	0.00				Average
		point456	456	11,170.8	1,832.8	0.00				Average
		point455	455	11,490.3	1,818.1	0.00				Average

INPUT: ROADWAYS

SDSU West Campus

		point190	190	11,707.0	1,829.2	0.00				Average
		point192	192	12,063.2	2,086.3	0.00				
South Stadium Way	45.0	point478	478	4,605.4	4,060.7	0.00				Average
		point479	479	4,733.9	4,001.9	0.00				Average
		point480	480	4,807.3	3,935.8	0.00				Average
		point481	481	4,858.8	3,814.6	0.00				Average
		point482	482	4,910.2	3,311.5	0.00				Average
		point483	483	4,965.3	2,617.4	0.00				Average
		point569	569	5,013.0	2,117.9	0.00				
North Stadium Way	45.0	point484	484	4,954.3	4,238.5	0.00				Average
		point485	485	4,891.8	4,161.3	0.00				Average
		point486	486	4,862.4	4,109.9	0.00				Average
		point487	487	4,888.2	3,849.1	0.00				Average
		point488	488	4,891.8	3,687.6	0.00				Average
		point570	570	5,042.4	2,137.7	0.00				
West Stadium Way (W of Int 26)	20.0	point489	489	9,334.5	2,728.9	0.00				Average
		point490	490	9,239.0	2,688.5	0.00				Average
		point491	491	9,169.3	2,648.1	0.00				Average
		point492	492	8,912.2	2,640.8	0.00				Average
		point493	493	8,824.0	2,662.8	0.00				Average
		point494	494	8,735.9	2,681.2	0.00				Average
		point495	495	8,633.1	2,688.5	0.00				Average
		point496	496	8,570.6	2,677.5	0.00				Average
		point497	497	8,276.8	2,706.9	0.00				Average
		point498	498	8,129.9	2,747.3	0.00				
East Stadium Way (W of Int 26)	20.0	point499	499	9,334.5	2,703.2	0.00				Average
		point500	500	9,224.3	2,655.5	0.00				Average
		point501	501	9,169.3	2,629.8	0.00				Average
		point502	502	8,912.2	2,629.8	0.00				Average
		point503	503	8,842.4	2,637.1	0.00				Average
		point504	504	8,695.5	2,666.5	0.00				Average
		point505	505	8,592.7	2,662.8	0.00				Average
		point506	506	8,387.0	2,651.8	0.00				Average
		point507	507	8,273.2	2,666.5	0.00				Average
		point573	573	8,152.0	2,710.6	0.00				
5 West Friars- (W of Int 10)	40.0	point509	509	3,873.5	3,585.6	20.00				Average
		point32	32	2,797.5	2,575.7	20.00				
5 East Friars (W of Int 10)	40.0	point510	510	3,928.6	3,545.2	20.00				Average
		point63	63	2,834.2	2,524.2	20.00				

INPUT: ROADWAYS

SDSU West Campus

8 West Friars (Mission to 15)	40.0	point523	523	6,351.7	4,630.6	0.00				Average	
		point40	40	7,189.0	4,906.0	10.00				Average	
		point41	41	7,850.1	5,078.6	20.00				Average	Y
		point600	600	8,165.9	5,163.1	20.00					
8 East Friars (Mission to 15)	40.0	point524	524	6,353.9	4,582.8	0.00				Average	
		point521	521	6,882.7	4,759.1	5.00				Average	
		point522	522	7,169.2	4,858.3	10.00				Average	
		point71	71	7,606.2	4,972.1	20.00				Average	Y
		point599	599	8,228.7	5,142.9	15.00					
West Camino Del Rio (W of Int 27)	20.0	point529	529	2,684.6	-317.1	0.00				Average	
		point106	106	2,901.3	-214.2	0.00				Average	
		point107	107	3,235.5	-177.5	0.00				Average	
		point108	108	3,525.7	-111.4	0.00				Average	
		point109	109	3,698.3	-1.2	0.00				Average	
		point110	110	3,944.3	233.8	0.00				Average	
		point111	111	4,164.7	457.8	0.00				Average	
		point112	112	4,370.3	656.2	0.00				Average	
		point113	113	4,587.0	839.8	0.00				Average	
		point114	114	4,704.5	913.2	0.00				Average	
		point115	115	4,829.4	920.6	0.00				Average	
		point116	116	4,902.9	869.2	0.00				Average	
		point117	117	5,009.4	714.9	0.00				Average	
		point118	118	5,090.2	615.7	0.00				Average	
		point119	119	5,204.0	586.4	0.00				Average	
		point120	120	5,354.6	652.5	0.00				Average	
		point121	121	5,696.1	909.5	0.00				Average	
		point122	122	6,151.5	1,232.7	0.00				Average	
		point123	123	6,566.5	1,420.0	0.00				Average	
		point124	124	6,871.3	1,522.9	0.00				Average	
		point125	125	7,631.6	1,699.1	0.00				Average	
		point126	126	7,778.4	1,739.6	0.00				Average	
		point127	127	7,892.3	1,827.7	0.00				Average	
		point128	128	8,156.7	2,154.6	0.00				Average	
		point129	129	8,300.0	2,253.7	0.00				Average	
		point130	130	8,615.8	2,319.8	0.00				Average	
		point131	131	8,876.5	2,301.4	0.00				Average	
		point132	132	9,185.0	2,117.8	0.00				Average	
		point133	133	9,311.7	2,070.1	0.00					
East Camino Del Rio (W of Int 27)	20.0	point530	530	2,726.1	-320.7	0.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point193	193	2,873.0	-265.6	0.00				Average	
		point194	194	3,030.9	-236.3	0.00				Average	
		point195	195	3,229.3	-203.2	0.00				Average	
		point196	196	3,493.7	-166.5	0.00				Average	
		point197	197	3,651.6	-63.6	0.00				Average	
		point198	198	4,569.8	799.4	0.00				Average	
		point199	199	4,705.6	880.2	0.00				Average	
		point200	200	4,782.7	898.6	0.00				Average	
		point201	201	4,841.5	891.2	0.00				Average	
		point202	202	4,911.3	828.8	0.00				Average	
		point203	203	5,010.5	678.2	0.00				Average	
		point204	204	5,069.2	586.4	0.00				Average	
		point205	205	5,227.1	560.7	0.00				Average	
		point206	206	5,465.8	703.9	0.00				Average	
		point207	207	5,814.7	964.7	0.00				Average	
		point208	208	6,152.6	1,207.1	0.00				Average	
		point209	209	6,420.7	1,342.9	0.00				Average	
		point210	210	6,619.0	1,431.1	0.00				Average	
		point211	211	6,931.2	1,522.9	0.00				Average	
		point212	212	7,379.2	1,625.7	0.00				Average	
		point213	213	7,742.8	1,706.5	0.00				Average	
		point214	214	7,864.0	1,761.6	0.00				Average	
		point215	215	8,033.0	1,967.3	0.00				Average	
		point216	216	8,201.9	2,180.2	0.00				Average	
		point217	217	8,315.7	2,239.0	0.00				Average	
		point218	218	8,697.7	2,301.4	0.00				Average	
		point219	219	8,851.9	2,275.8	0.00				Average	
		point220	220	9,160.4	2,088.5	0.00				Average	
		point221	221	9,296.3	2,040.7	0.00					
West Twain Ave	20.0	point533	533	12,169.7	3,967.3	0.00				Average	
		point411	411	12,779.4	3,956.3	0.00					
East Twain Ave	20.0	point534	534	12,180.7	3,941.6	0.00				Average	
		point532	532	12,783.0	3,923.3	0.00					
East Friars (W of Int 9) 7	40.0	point538	538	6,270.2	4,544.9	20.00				Average	
		point539	539	6,057.2	4,464.1	20.00				Average	
		point540	540	5,925.0	4,427.4	20.00				Average	
		point541	541	5,737.7	4,409.0	20.00				Average	
		point542	542	5,388.8	4,383.3	20.00				Average	
		point543	543	5,230.9	4,357.6	20.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point563	563	5,032.6	4,295.1	20.00				Average	
		point564	564	4,830.6	4,203.3	20.00				Average	
		point565	565	4,595.5	4,067.5	20.00				Average	
		point566	566	4,349.5	3,905.8	20.00				Average	
		point567	567	4,220.9	3,803.0	20.00				Average	
		point568	568	3,985.9	3,590.0	20.00					
4 west Friars east of 805	40.0	point579	579	2,736.1	2,516.1	0.00				Average	
		point580	580	2,350.4	2,126.9	0.00				Average	
		point581	581	2,130.1	1,935.9	0.00				Average	
		point582	582	1,924.4	1,767.0	0.00				Average	
		point583	583	1,645.3	1,524.6	0.00					
4 East Friars east of 805	40.0	point584	584	2,776.4	2,475.8	0.00				Average	
		point585	585	2,508.3	2,189.3	0.00				Average	
		point586	586	2,321.1	2,035.0	0.00				Average	
		point587	587	2,152.1	1,866.1	0.00				Average	
		point588	588	1,961.2	1,715.6	0.00				Average	
		point589	589	1,685.7	1,491.5	0.00					
North River Run Dr	12.0	point590	590	2,471.7	1,092.6	0.00				Average	
		point591	591	2,273.7	1,256.6	0.00				Average	
		point592	592	2,157.8	1,399.4	0.00				Average	
		point593	593	1,962.7	1,696.4	0.00					
South River Run Dr	12.0	point594	594	2,478.7	1,132.2	0.00				Average	
		point595	595	2,319.0	1,259.4	0.00				Average	
		point596	596	2,234.1	1,354.2	0.00				Average	
		point597	597	2,101.2	1,528.1	0.00				Average	
		point598	598	1,995.2	1,707.7	0.00					
West Friars (15 to Rancho Mission)	40.0	point601	601	8,165.9	5,163.1	20.00				Average	Y
		point42	42	8,481.7	5,247.6	20.00				Average	
		point43	43	9,190.6	5,438.6	10.00				Average	
		point44	44	9,583.5	5,541.4	5.00				Average	
		point45	45	9,910.4	5,629.5	0.00				Average	
		point46	46	10,233.5	5,721.3	0.00				Average	
		point553	553	10,431.9	5,787.4	0.00				Average	Y
		point554	554	11,004.8	5,985.8	0.00					
9 East Friars (15 to Rancho Mission)	40.0	point602	602	8,228.7	5,142.9	15.00				Average	Y
		point72	72	8,851.2	5,313.7	10.00				Average	
		point73	73	9,578.4	5,490.0	10.00				Average	
		point74	74	10,155.0	5,636.9	10.00				Average	
		point75	75	10,738.9	5,842.5	5.00				Average	

INPUT: ROADWAYS

SDSU West Campus

		point76	76	11,010.7	5,930.7	0.00					
I-15 North	90.0	point603	603	8,885.7	-269.3	60.00				Average	
		point604	604	9,006.9	222.8	50.00				Average	
		point605	605	9,010.6	527.6	40.00				Average	
		point606	606	8,984.9	902.2	30.00				Average	
		point607	607	8,915.1	1,225.4	30.00				Average	Y
		point608	608	8,610.3	2,253.7	20.00				Average	Y
		point609	609	8,503.8	2,617.3	20.00				Average	Y
		point610	610	8,305.4	3,348.1	10.00				Average	
		point611	611	8,235.7	3,649.3	0.00				Average	
		point612	612	8,187.9	3,895.3	0.00				Average	
		point613	613	8,169.6	4,185.5	0.00				Average	
		point614	614	8,180.6	4,505.0	0.00				Average	
		point615	615	8,221.0	4,776.7	10.00				Average	
		point616	616	8,265.1	4,975.1	10.00				Average	
		point617	617	8,613.9	6,051.1	10.00				Average	
		point618	618	8,819.6	6,701.2	20.00				Average	
		point619	619	8,896.8	7,046.4	30.00				Average	Y
		point620	620	8,922.4	7,288.8	40.00				Average	Y
		point621	621	8,922.4	7,476.1	50.00					

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

Dudek													
CB													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	SDSU West Campus												
RUN:	Existing												
Roadway	Points												
Name	Name	No.	Segment										
			Autos	MTrucks		HTrucks		Buses		Motorcycles			
			V	S	V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
South Mission Village Dr 26	point9	9	1125	45	23	45	12	45	0	0	0	0	
	point8	8	1125	45	23	45	12	45	0	0	0	0	
	point7	7	1125	45	23	45	12	45	0	0	0	0	
	point6	6	1125	45	23	45	12	45	0	0	0	0	
	point5	5	1125	45	23	45	12	45	0	0	0	0	
	point4	4	1125	45	23	45	12	45	0	0	0	0	
	point3	3	1125	45	23	45	12	45	0	0	0	0	
	point2	2	1125	45	23	45	12	45	0	0	0	0	
	point1	1											
North Mission Village Dr	point15	15	1125	45	23	45	12	45	0	0	0	0	
	point16	16	1125	45	23	45	12	45	0	0	0	0	
	point17	17	1125	45	23	45	12	45	0	0	0	0	
	point18	18	1125	45	23	45	12	45	0	0	0	0	
	point19	19	1125	45	23	45	12	45	0	0	0	0	
	point535	535	1125	45	23	45	12	45	0	0	0	0	
	point20	20	1125	45	23	45	12	45	0	0	0	0	
	point21	21	1125	45	23	45	12	45	0	0	0	0	
	point22	22	1125	45	23	45	12	45	0	0	0	0	
	point23	23	1125	45	23	45	12	45	0	0	0	0	
	point537	537											
westFriars (W of Int 9)	point58	58	3745	45	77	45	39	45	0	0	0	0	
	point59	59	3745	45	77	45	39	45	0	0	0	0	
	point60	60	3745	45	77	45	39	45	0	0	0	0	

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point61	61	3745	45	77	45	39	45	0	0	0	0
	point62	62	3745	45	77	45	39	45	0	0	0	0
	point555	555	3745	45	77	45	39	45	0	0	0	0
	point556	556	3745	45	77	45	39	45	0	0	0	0
	point557	557	3745	45	77	45	39	45	0	0	0	0
	point558	558	3745	45	77	45	39	45	0	0	0	0
	point559	559	3745	45	77	45	39	45	0	0	0	0
	point560	560	3745	45	77	45	39	45	0	0	0	0
	point561	561	3745	45	77	45	39	45	0	0	0	0
	point562	562										
17 West San Diego Mission Rd	point77	77	973	45	20	45	10	45	0	0	0	0
	point78	78	973	45	20	45	10	45	0	0	0	0
	point79	79	973	45	20	45	10	45	0	0	0	0
	point80	80	973	45	20	45	10	45	0	0	0	0
	point81	81	973	45	20	45	10	45	0	0	0	0
	point82	82	973	45	20	45	10	45	0	0	0	0
	point83	83	973	45	20	45	10	45	0	0	0	0
	point84	84	973	45	20	45	10	45	0	0	0	0
	point85	85	973	45	20	45	10	45	0	0	0	0
	point86	86	973	45	20	45	10	45	0	0	0	0
	point87	87										
17 East San Diego Mission Rd	point88	88	973	45	20	45	10	45	0	0	0	0
	point89	89	973	45	20	45	10	45	0	0	0	0
	point90	90	973	45	20	45	10	45	0	0	0	0
	point91	91	973	45	20	45	10	45	0	0	0	0
	point92	92	973	45	20	45	10	45	0	0	0	0
	point93	93	973	45	20	45	10	45	0	0	0	0
	point94	94	973	45	20	45	10	45	0	0	0	0
	point95	95	973	45	20	45	10	45	0	0	0	0
	point96	96										
22 North Ward Rd	point97	97	927	45	19	45	10	45	0	0	0	0
	point98	98										
South Ward Row	point102	102	927	45	19	45	10	45	0	0	0	0
	point103	103										
South Fenton Pkwy (S of Int 9)	point242	242	385	30	8	30	4	30	0	0	0	0
	point243	243	385	30	8	30	4	30	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point244	244	385	30	8	30	4	30	0	0	0	0
	point245	245	385	30	8	30	4	30	0	0	0	0
	point246	246	385	30	8	30	4	30	0	0	0	0
	point247	247	385	30	8	30	4	30	0	0	0	0
	point248	248	385	30	8	30	4	30	0	0	0	0
	point249	249	385	30	8	30	4	30	0	0	0	0
	point250	250	385	30	8	30	4	30	0	0	0	0
	point251	251	385	30	8	30	4	30	0	0	0	0
	point252	252	385	30	8	30	4	30	0	0	0	0
	point253	253										
16 North Fenton Pkwy (S of Int 9)	point255	255	385	30	8	30	4	30	0	0	0	0
	point256	256	385	30	8	30	4	30	0	0	0	0
	point257	257	385	30	8	30	4	30	0	0	0	0
	point258	258	385	30	8	30	4	30	0	0	0	0
	point259	259	385	30	8	30	4	30	0	0	0	0
	point260	260	385	30	8	30	4	30	0	0	0	0
	point261	261										
South Fenton Pkwy (N of Int 9)	point268	268	0	0	0	0	0	0	0	0	0	0
	point269	269	0	0	0	0	0	0	0	0	0	0
	point270	270	0	0	0	0	0	0	0	0	0	0
	point271	271	0	0	0	0	0	0	0	0	0	0
	point272	272	0	0	0	0	0	0	0	0	0	0
	point273	273	0	0	0	0	0	0	0	0	0	0
	point274	274										
North Fenton Pkwy (N of Int 9)	point275	275	0	0	0	0	0	0	0	0	0	0
	point276	276	0	0	0	0	0	0	0	0	0	0
	point277	277	0	0	0	0	0	0	0	0	0	0
	point278	278	0	0	0	0	0	0	0	0	0	0
	point279	279	0	0	0	0	0	0	0	0	0	0
	point280	280	0	0	0	0	0	0	0	0	0	0
	point281	281	0	0	0	0	0	0	0	0	0	0
	point282	282	0	0	0	0	0	0	0	0	0	0
	point571	571										
North Northside Dr	point283	283	0	0	0	0	0	0	0	0	0	0
	point284	284	0	0	0	0	0	0	0	0	0	0
	point285	285	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point286	286	0	0	0	0	0	0	0	0	0	0
	point287	287	0	0	0	0	0	0	0	0	0	0
	point288	288	0	0	0	0	0	0	0	0	0	0
	point289	289										
South Northside Dr	point291	291	0	0	0	0	0	0	0	0	0	0
	point292	292	0	0	0	0	0	0	0	0	0	0
	point293	293	0	0	0	0	0	0	0	0	0	0
	point294	294	0	0	0	0	0	0	0	0	0	0
	point295	295	0	0	0	0	0	0	0	0	0	0
	point296	296	0	0	0	0	0	0	0	0	0	0
	point297	297										
15 West Rio San Diego Dr	point299	299	702	45	14	45	7	45	0	0	0	0
	point300	300	702	45	14	45	7	45	0	0	0	0
	point301	301	702	45	14	45	7	45	0	0	0	0
	point302	302	702	45	14	45	7	45	0	0	0	0
	point303	303	702	45	14	45	7	45	0	0	0	0
	point304	304	702	45	14	45	7	45	0	0	0	0
	point305	305	702	45	14	45	7	45	0	0	0	0
	point306	306	702	45	14	45	7	45	0	0	0	0
	point307	307	702	45	14	45	7	45	0	0	0	0
	point577	577										
15 East Rio San Diego Dr	point308	308	702	45	14	45	7	45	0	0	0	0
	point309	309	702	45	14	45	7	45	0	0	0	0
	point310	310	702	45	14	45	7	45	0	0	0	0
	point311	311	702	45	14	45	7	45	0	0	0	0
	point312	312	702	45	14	45	7	45	0	0	0	0
	point313	313	702	45	14	45	7	45	0	0	0	0
	point314	314	702	45	14	45	7	45	0	0	0	0
	point315	315	702	45	14	45	7	45	0	0	0	0
	point578	578										
I15 South	point316	316	11418	65	235	65	118	65	0	0	0	0
	point318	318	11418	65	235	65	118	65	0	0	0	0
	point319	319	11418	65	235	65	118	65	0	0	0	0
	point320	320	11418	65	235	65	118	65	0	0	0	0
	point321	321	11418	65	235	65	118	65	0	0	0	0
	point 322	322	11418	65	235	65	118	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point323	323	11418	65	235	65	118	65	0	0	0	0
	point324	324	11418	65	235	65	118	65	0	0	0	0
	point325	325	11418	65	235	65	118	65	0	0	0	0
	point326	326	11418	65	235	65	118	65	0	0	0	0
	point327	327	11418	65	235	65	118	65	0	0	0	0
	point328	328	11418	65	235	65	118	65	0	0	0	0
	point329	329	11418	65	235	65	118	65	0	0	0	0
	point330	330										
I8 West	point354	354	12386	65	255	65	128	65	0	0	0	0
	point355	355	12386	65	255	65	128	65	0	0	0	0
	point356	356	12386	65	255	65	128	65	0	0	0	0
	point357	357	12386	65	255	65	128	65	0	0	0	0
	point358	358	12386	65	255	65	128	65	0	0	0	0
	point359	359	12386	65	255	65	128	65	0	0	0	0
	point360	360	12386	65	255	65	128	65	0	0	0	0
	point361	361	12386	65	255	65	128	65	0	0	0	0
	point362	362	12386	65	255	65	128	65	0	0	0	0
	point363	363	12386	65	255	65	128	65	0	0	0	0
	point364	364	12386	65	255	65	128	65	0	0	0	0
	point365	365	12386	65	255	65	128	65	0	0	0	0
	point548	548	12386	65	255	65	128	65	0	0	0	0
	point549	549	12386	65	255	65	128	65	0	0	0	0
	point550	550	12386	65	255	65	128	65	0	0	0	0
	point551	551	12386	65	255	65	128	65	0	0	0	0
	point552	552										
I8 East	point366	366	12299	65	254	65	127	65	0	0	0	0
	point367	367	12299	65	254	65	127	65	0	0	0	0
	point368	368	12299	65	254	65	127	65	0	0	0	0
	point369	369	12299	65	254	65	127	65	0	0	0	0
	point370	370	12299	65	254	65	127	65	0	0	0	0
	point371	371	12299	65	254	65	127	65	0	0	0	0
	point 372	372	12299	65	254	65	127	65	0	0	0	0
	point373	373	12299	65	254	65	127	65	0	0	0	0
	point374	374	12299	65	254	65	127	65	0	0	0	0
	point375	375	12299	65	254	65	127	65	0	0	0	0
	point376	376	12299	65	254	65	127	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point377	377	12299	65	254	65	127	65	0	0	0	0
	point378	378	12299	65	254	65	127	65	0	0	0	0
	point547	547										
19 South Rancho Mission Rd (S friars)	point379	379	1240	45	26	45	13	45	0	0	0	0
	point380	380	1240	45	26	45	13	45	0	0	0	0
	point381	381	1240	45	26	45	13	45	0	0	0	0
	point382	382	1240	45	26	45	13	45	0	0	0	0
	point383	383	1240	45	26	45	13	45	0	0	0	0
	point384	384	1240	45	26	45	13	45	0	0	0	0
	point385	385	1240	45	26	45	13	45	0	0	0	0
	point386	386	1240	45	26	45	13	45	0	0	0	0
	point387	387	1240	45	26	45	13	45	0	0	0	0
	point388	388	1240	45	26	45	13	45	0	0	0	0
	point572	572										
North Mission Road (S of Friars)	point389	389	1240	45	26	45	13	45	0	0	0	0
	point390	390	1240	45	26	45	13	45	0	0	0	0
	point391	391	1240	45	26	45	13	45	0	0	0	0
	point392	392	1240	45	26	45	13	45	0	0	0	0
	point393	393	1240	45	26	45	13	45	0	0	0	0
	point394	394	1240	45	26	45	13	45	0	0	0	0
	point395	395	1240	45	26	45	13	45	0	0	0	0
	point396	396	1240	45	26	45	13	45	0	0	0	0
	point397	397	1240	45	26	45	13	45	0	0	0	0
	point398	398	1240	45	26	45	13	45	0	0	0	0
	point399	399										
West San Diego Mission Rd (E of Int 24)	point401	401	1009	45	21	45	10	45	0	0	0	0
	point402	402	1009	45	21	45	10	45	0	0	0	0
	point403	403	1009	45	21	45	10	45	0	0	0	0
	point404	404	1009	45	21	45	10	45	0	0	0	0
	point405	405	1009	45	21	45	10	45	0	0	0	0
	point406	406	1009	45	21	45	10	45	0	0	0	0
	point407	407	1009	45	21	45	10	45	0	0	0	0
	point408	408	1009	45	21	45	10	45	0	0	0	0
	point409	409	1009	45	21	45	10	45	0	0	0	0
	point410	410	1009	45	21	45	10	45	0	0	0	0
	point575	575	1009	45	21	45	10	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point576	576										
East San Diego Mission Rd (E of Int 24)	point424	424	1009	45	21	45	10	45	0	0	0	0
	point425	425	1009	45	21	45	10	45	0	0	0	0
	point426	426	1009	45	21	45	10	45	0	0	0	0
	point427	427	1009	45	21	45	10	45	0	0	0	0
	point428	428	1009	45	21	45	10	45	0	0	0	0
	point429	429	1009	45	21	45	10	45	0	0	0	0
	point430	430	1009	45	21	45	10	45	0	0	0	0
	point431	431	1009	45	21	45	10	45	0	0	0	0
	point432	432	1009	45	21	45	10	45	0	0	0	0
	point433	433	1009	45	21	45	10	45	0	0	0	0
	point434	434										
South Fairmount Ave (N of Int 25)	point436	436	0	0	0	0	0	0	0	0	0	0
	point437	437										
North Fairmount Ave (N of Int 25)	point438	438	0	0	0	0	0	0	0	0	0	0
	point439	439										
23 South Fairmont Ave (S of Int 25)	point440	440	686	45	14	45	7	45	0	0	0	0
	point441	441	686	45	14	45	7	45	0	0	0	0
	point442	442	686	45	14	45	7	45	0	0	0	0
	point443	443										
North Fairmount Ave (S of Int 25)	point444	444	686	45	14	45	7	45	0	0	0	0
	point445	445	686	45	14	45	7	45	0	0	0	0
	point446	446	686	45	14	45	7	45	0	0	0	0
	point574	574										
South Mission Gorge Rd	point462	462	0	0	0	0	0	0	0	0	0	0
	point463	463	0	0	0	0	0	0	0	0	0	0
	point464	464	0	0	0	0	0	0	0	0	0	0
	point465	465	0	0	0	0	0	0	0	0	0	0
	point466	466	0	0	0	0	0	0	0	0	0	0
	point467	467										
North Mission Gorge Rd	point469	469	0	0	0	0	0	0	0	0	0	0
	point470	470	0	0	0	0	0	0	0	0	0	0
	point471	471	0	0	0	0	0	0	0	0	0	0
	point472	472	0	0	0	0	0	0	0	0	0	0
	point473	473	0	0	0	0	0	0	0	0	0	0
	point474	474	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point475	475										
West Camino Del Rio (E of Int 27)	point528	528	0	0	0	0	0	0	0	0	0	0
	point527	527	0	0	0	0	0	0	0	0	0	0
	point526	526	0	0	0	0	0	0	0	0	0	0
	point105	105	0	0	0	0	0	0	0	0	0	0
	point447	447	0	0	0	0	0	0	0	0	0	0
	point448	448	0	0	0	0	0	0	0	0	0	0
	point449	449	0	0	0	0	0	0	0	0	0	0
	point450	450	0	0	0	0	0	0	0	0	0	0
	point451	451	0	0	0	0	0	0	0	0	0	0
	point452	452	0	0	0	0	0	0	0	0	0	0
	point453	453	0	0	0	0	0	0	0	0	0	0
	point454	454										
East Camino Del Rio (E of Int 27)	point461	461	0	0	0	0	0	0	0	0	0	0
	point460	460	0	0	0	0	0	0	0	0	0	0
	point459	459	0	0	0	0	0	0	0	0	0	0
	point458	458	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point456	456	0	0	0	0	0	0	0	0	0	0
	point455	455	0	0	0	0	0	0	0	0	0	0
	point190	190	0	0	0	0	0	0	0	0	0	0
	point192	192										
South Stadium Way	point478	478	0	0	0	0	0	0	0	0	0	0
	point479	479	0	0	0	0	0	0	0	0	0	0
	point480	480	0	0	0	0	0	0	0	0	0	0
	point481	481	0	0	0	0	0	0	0	0	0	0
	point482	482	0	0	0	0	0	0	0	0	0	0
	point483	483	0	0	0	0	0	0	0	0	0	0
	point569	569										
North Stadium Way	point484	484	0	0	0	0	0	0	0	0	0	0
	point485	485	0	0	0	0	0	0	0	0	0	0
	point486	486	0	0	0	0	0	0	0	0	0	0
	point487	487	0	0	0	0	0	0	0	0	0	0
	point488	488	0	0	0	0	0	0	0	0	0	0
	point570	570										
West Stadium Way (W of Int 26)	point489	489	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point490	490	0	0	0	0	0	0	0	0	0	0
	point491	491	0	0	0	0	0	0	0	0	0	0
	point492	492	0	0	0	0	0	0	0	0	0	0
	point493	493	0	0	0	0	0	0	0	0	0	0
	point494	494	0	0	0	0	0	0	0	0	0	0
	point495	495	0	0	0	0	0	0	0	0	0	0
	point496	496	0	0	0	0	0	0	0	0	0	0
	point497	497	0	0	0	0	0	0	0	0	0	0
	point498	498										
East Stadium Way (W of Int 26)	point499	499	0	0	0	0	0	0	0	0	0	0
	point500	500	0	0	0	0	0	0	0	0	0	0
	point501	501	0	0	0	0	0	0	0	0	0	0
	point502	502	0	0	0	0	0	0	0	0	0	0
	point503	503	0	0	0	0	0	0	0	0	0	0
	point504	504	0	0	0	0	0	0	0	0	0	0
	point505	505	0	0	0	0	0	0	0	0	0	0
	point506	506	0	0	0	0	0	0	0	0	0	0
	point507	507	0	0	0	0	0	0	0	0	0	0
	point573	573										
5 West Friars- (W of Int 10)	point509	509	2822	45	58	45	29	45	0	0	0	0
	point32	32										
5 East Friars (W of Int 10)	point510	510	2822	45	58	45	29	45	0	0	0	0
	point63	63										
8 West Friars (Mission to 15)	point523	523	4121	45	85	45	42	45	0	0	0	0
	point40	40	4121	45	85	45	42	45	0	0	0	0
	point41	41	4121	45	85	45	42	45	0	0	0	0
	point600	600										
8 East Friars (Mission to 15)	point524	524	4121	45	85	45	42	45	0	0	0	0
	point521	521	4121	45	85	45	42	45	0	0	0	0
	point522	522	4121	45	85	45	42	45	0	0	0	0
	point71	71	4121	45	85	45	42	45	0	0	0	0
	point599	599										
West Camino Del Rio (W of Int 27)	point529	529	0	0	0	0	0	0	0	0	0	0
	point106	106	0	0	0	0	0	0	0	0	0	0
	point107	107	0	0	0	0	0	0	0	0	0	0
	point108	108	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point109	109	0	0	0	0	0	0	0	0	0	0
	point110	110	0	0	0	0	0	0	0	0	0	0
	point111	111	0	0	0	0	0	0	0	0	0	0
	point112	112	0	0	0	0	0	0	0	0	0	0
	point113	113	0	0	0	0	0	0	0	0	0	0
	point114	114	0	0	0	0	0	0	0	0	0	0
	point115	115	0	0	0	0	0	0	0	0	0	0
	point116	116	0	0	0	0	0	0	0	0	0	0
	point117	117	0	0	0	0	0	0	0	0	0	0
	point118	118	0	0	0	0	0	0	0	0	0	0
	point119	119	0	0	0	0	0	0	0	0	0	0
	point120	120	0	0	0	0	0	0	0	0	0	0
	point121	121	0	0	0	0	0	0	0	0	0	0
	point122	122	0	0	0	0	0	0	0	0	0	0
	point123	123	0	0	0	0	0	0	0	0	0	0
	point124	124	0	0	0	0	0	0	0	0	0	0
	point125	125	0	0	0	0	0	0	0	0	0	0
	point126	126	0	0	0	0	0	0	0	0	0	0
	point127	127	0	0	0	0	0	0	0	0	0	0
	point128	128	0	0	0	0	0	0	0	0	0	0
	point129	129	0	0	0	0	0	0	0	0	0	0
	point130	130	0	0	0	0	0	0	0	0	0	0
	point131	131	0	0	0	0	0	0	0	0	0	0
	point132	132	0	0	0	0	0	0	0	0	0	0
	point133	133										
East Camino Del Rio (W of Int 27)	point530	530	0	0	0	0	0	0	0	0	0	0
	point193	193	0	0	0	0	0	0	0	0	0	0
	point194	194	0	0	0	0	0	0	0	0	0	0
	point195	195	0	0	0	0	0	0	0	0	0	0
	point196	196	0	0	0	0	0	0	0	0	0	0
	point197	197	0	0	0	0	0	0	0	0	0	0
	point198	198	0	0	0	0	0	0	0	0	0	0
	point199	199	0	0	0	0	0	0	0	0	0	0
	point200	200	0	0	0	0	0	0	0	0	0	0
	point201	201	0	0	0	0	0	0	0	0	0	0
	point202	202	0	0	0	0	0	0	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point203	203	0	0	0	0	0	0	0	0	0	0
	point204	204	0	0	0	0	0	0	0	0	0	0
	point205	205	0	0	0	0	0	0	0	0	0	0
	point206	206	0	0	0	0	0	0	0	0	0	0
	point207	207	0	0	0	0	0	0	0	0	0	0
	point208	208	0	0	0	0	0	0	0	0	0	0
	point209	209	0	0	0	0	0	0	0	0	0	0
	point210	210	0	0	0	0	0	0	0	0	0	0
	point211	211	0	0	0	0	0	0	0	0	0	0
	point212	212	0	0	0	0	0	0	0	0	0	0
	point213	213	0	0	0	0	0	0	0	0	0	0
	point214	214	0	0	0	0	0	0	0	0	0	0
	point215	215	0	0	0	0	0	0	0	0	0	0
	point216	216	0	0	0	0	0	0	0	0	0	0
	point217	217	0	0	0	0	0	0	0	0	0	0
	point218	218	0	0	0	0	0	0	0	0	0	0
	point219	219	0	0	0	0	0	0	0	0	0	0
	point220	220	0	0	0	0	0	0	0	0	0	0
	point221	221										
West Twain Ave	point533	533	0	0	0	0	0	0	0	0	0	0
	point411	411										
East Twain Ave	point534	534	0	0	0	0	0	0	0	0	0	0
	point532	532										
East Friars (W of Int 9) 7	point538	538	3745	45	77	45	39	45	0	0	0	0
	point539	539	3745	45	77	45	39	45	0	0	0	0
	point540	540	3745	45	77	45	39	45	0	0	0	0
	point541	541	3745	45	77	45	39	45	0	0	0	0
	point542	542	3745	45	77	45	39	45	0	0	0	0
	point543	543	3745	45	77	45	39	45	0	0	0	0
	point563	563	3745	45	77	45	39	45	0	0	0	0
	point564	564	3745	45	77	45	39	45	0	0	0	0
	point565	565	3745	45	77	45	39	45	0	0	0	0
	point566	566	3745	45	77	45	39	45	0	0	0	0
	point567	567	3745	45	77	45	39	45	0	0	0	0
	point568	568										
4 west Friars east of 805	point579	579	2727	45	56	45	28	45	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes

SDSU West Campus

	point580	580	2727	45	56	45	28	45	0	0	0	0
	point581	581	2727	45	56	45	28	45	0	0	0	0
	point582	582	2727	45	56	45	28	45	0	0	0	0
	point583	583										
4 East Friars east of 805	point584	584	2727	45	56	45	28	45	0	0	0	0
	point585	585	2727	45	56	45	28	45	0	0	0	0
	point586	586	2727	45	56	45	28	45	0	0	0	0
	point587	587	2727	45	56	45	28	45	0	0	0	0
	point588	588	2727	45	56	45	28	45	0	0	0	0
	point589	589										
North River Run Dr	point590	590	0	0	0	0	0	0	0	0	0	0
	point591	591	0	0	0	0	0	0	0	0	0	0
	point592	592	0	0	0	0	0	0	0	0	0	0
	point593	593										
South River Run Dr	point594	594	0	0	0	0	0	0	0	0	0	0
	point595	595	0	0	0	0	0	0	0	0	0	0
	point596	596	0	0	0	0	0	0	0	0	0	0
	point597	597	0	0	0	0	0	0	0	0	0	0
	point598	598										
West Friars (15 to Rancho Mission)	point601	601	3970	45	82	45	41	45	0	0	0	0
	point42	42	3970	45	82	45	41	45	0	0	0	0
	point43	43	3970	45	82	45	41	45	0	0	0	0
	point44	44	3970	45	82	45	41	45	0	0	0	0
	point45	45	3970	45	82	45	41	45	0	0	0	0
	point46	46	3970	45	82	45	41	45	0	0	0	0
	point553	553	3970	45	82	45	41	45	0	0	0	0
	point554	554										
9 East Friars (15 to Rancho Mission)	point602	602	3970	45	82	45	41	45	0	0	0	0
	point72	72	3970	45	82	45	41	45	0	0	0	0
	point73	73	3970	45	82	45	41	45	0	0	0	0
	point74	74	3970	45	82	45	41	45	0	0	0	0
	point75	75	3970	45	82	45	41	45	0	0	0	0
	point76	76										
I-15 North	point603	603	9701	65	200	65	100	65	0	0	0	0
	point604	604	9701	65	200	65	100	65	0	0	0	0
	point605	605	9701	65	200	65	100	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes**SDSU West Campus**

	point606	606	9701	65	200	65	100	65	0	0	0	0
	point607	607	9701	65	200	65	100	65	0	0	0	0
	point608	608	9701	65	200	65	100	65	0	0	0	0
	point609	609	9701	65	200	65	100	65	0	0	0	0
	point610	610	9701	65	200	65	100	65	0	0	0	0
	point611	611	9701	65	200	65	100	65	0	0	0	0
	point612	612	9701	65	200	65	100	65	0	0	0	0
	point613	613	9701	65	200	65	100	65	0	0	0	0
	point614	614	9701	65	200	65	100	65	0	0	0	0
	point615	615	9701	65	200	65	100	65	0	0	0	0
	point616	616	9701	65	200	65	100	65	0	0	0	0
	point617	617	9701	65	200	65	100	65	0	0	0	0
	point618	618	9701	65	200	65	100	65	0	0	0	0
	point619	619	9701	65	200	65	100	65	0	0	0	0
	point620	620	9701	65	200	65	100	65	0	0	0	0
	point621	621										

INPUT: RECEIVERS

SDSU West Campus

							27 February 2019					
							TNM 2.5					
INPUT: RECEIVERS												
PROJECT/CONTRACT:		SDSU West Campus										
RUN:		Existing										
Receiver												
Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.	
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Sub'l Sub'l	NR Goal		
			ft	ft	ft	ft	dBA	dBA	dB	dB		
ST9	1	1	5,119.4	6,645.4	250.00	4.92	52.50	66	10.0	8.0	Y	
ST10	2	1	6,573.6	5,525.0	200.00	4.92	52.80	66	10.0	8.0	Y	
ST1	3	1	8,338.7	3,886.4	0.00	4.92	77.40	66	10.0	8.0	Y	
ST2a	4	1	8,632.8	2,814.1	0.00	4.92	72.20	66	10.0	8.0	Y	
ST8	5	1	9,471.6	2,808.0	0.00	4.92	67.00	66	10.0	8.0	Y	
ST3	6	1	4,776.5	4,099.3	0.00	4.92	64.90	66	10.0	8.0	Y	
ST5	8	1	4,729.6	3,692.2	0.00	4.92	53.70	66	10.0	8.0	Y	
ST4	9	1	8,367.3	347.6	150.00	4.92	69.10	66	10.0	8.0	Y	
ST7	10	1	4,336.6	1,707.8	0.00	4.92	59.00	66	10.0	8.0	Y	
ST6	11	1	5,594.8	1,170.3	0.00	4.92	65.10	66	10.0	8.0	Y	

INPUT: BUILDING ROWS

SDSU West Campus

Dudek								27 February 2019
CB								TNM 2.5
INPUT: BUILDING ROWS								
PROJECT/CONTRACT:			SDSU West Campus					
RUN:			Existing					
Building Row			Points					
Name	Average	Building	No.	Coordinates (ground)				
	Height	Percent		X	Y	Z		
	ft	%		ft	ft	ft		
Building2-Building1	30.00	80	5	4,686.0	3,683.4	0.00		
			6	4,513.6	3,879.2	0.00		
			1	4,511.5	3,881.2	0.00		
			2	4,596.4	3,958.3	0.00		
			3	4,777.9	3,758.9	0.00		
			4	4,689.1	3,681.0	0.00		
Building10	20.00	50	29	6,423.0	5,510.9	200.00		
			30	6,480.1	5,374.0	200.00		
			31	6,537.1	5,323.8	200.00		
			32	6,614.7	5,328.3	200.00		
			33	6,686.6	5,339.7	200.00		
			34	6,712.8	5,358.0	200.00		
			35	6,691.1	5,443.5	200.00		
			36	6,682.0	5,510.9	200.00		
			37	6,674.0	5,539.4	200.00		
Building11	20.00	80	47	5,448.5	6,823.5	250.00		
			48	5,254.6	6,581.5	250.00		
			49	5,342.4	6,530.2	250.00		
			50	5,513.6	6,774.4	250.00		
Building12	20.00	80	51	5,131.6	6,657.7	250.00		
			52	5,197.3	6,592.4	250.00		
			53	5,445.6	6,881.1	250.00		
			54	5,196.4	7,337.2	250.00		
			55	5,118.2	7,293.4	250.00		

INPUT: BUILDING ROWS**SDSU West Campus**

			56	5,316.7	6,898.3	250.00
			57	5,132.0	6,658.6	250.00

Appendix C

Plots of Long-term Baseline Noise Level Measurement Data

Field Noise Measurement Data

Record: 1133

Project Name	SDSU
Observer(s)	Connor Burke
Date	2019-01-24

Instrument and Calibrator Information

Instrument Name List	(ENC) Rion NL-52
Instrument Name	(ENC) Rion NL-52
Instrument Name Lookup Key	(ENC) Rion NL-52
Manufacturer	Rion
Model	NL-52
Serial Number	553896
Calibrator Name	(ENC) LD CAL150
Calibrator Name	(ENC) LD CAL150
Calibrator Name Lookup Key	(ENC) LD CAL150
Calibrator Manufacturer	Larson Davis
Calibrator Model	LD CAL150
Calibrator Serial #	5152
Pre-Test (dBA SPL)	94
Post-Test (dBA SPL)	94
Windscreen	Yes
Weighting?	A-WTD
Slow/Fast?	Slow
ANSI?	Yes

Monitoring

Record #	1
Site ID	ST9
Site Location Lat/Long	32.792022, -117.123972
Begin (Time)	11:00:00
End (Time)	11:10:00
Leq	47.1
Lmax	51.6
Lmin	42.6
Other Lx?	L90, L50, L10
L90	43.2
L50	46.2
L10	50
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Conversations / Yelling, Distant Traffic
Other Noise Sources Additional Description	Hvac noise
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Monitoring

Record #	2
Site ID	ST10
Site Location Lat/Long	32.789019, -117.119446
Begin (Time)	11:20:00
End (Time)	11:30:00
Leq	46.6
Lmax	52.1
Lmin	44.6
Other Lx?	L90, L50, L10
L90	45.4
L50	46.1
L10	47.7
Other Lx (Specify Metric)	L
Primary Noise Source	Birds
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Conversations / Yelling, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Comments / Description

Facing south.

Monitoring

Record #	3
Site ID	ST1
Site Location Lat/Long	32.784711, -117.113886
Begin (Time)	11:30:00
End (Time)	11:40:00
Leq	77.4
Lmax	81.3
Lmin	74.5
Other Lx?	L90, L50, L10
L90	75.4
L50	77
L10	79.4
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Comments / Description

Facing west.

Monitoring

Record #	4
Site ID	ST2a
Site Location Lat/Long	32.781727, -117.112776
Begin (Time)	11:45:00
End (Time)	11:55:00
Leq	72.2
Lmax	74.3
Lmin	69.3
Other Lx?	L90, L50, L10
L90	70.8
L50	72.1
L10	73.1
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Comments / Description

Facing south

Monitoring

Record #	5
Site ID	ST8
Site Location Lat/Long	32.781914, -117.110341
Begin (Time)	11:52:00
End (Time)	12:02:00
Leq	67
Lmax	77.8
Lmin	59.9
Other Lx?	L90, L50, L10
L90	61.3
L50	63.6
L10	70.8
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Distant Conversations / Yelling, Distant Traffic
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Monitoring

Record #	6
Site ID	ST6
Site Location Lat/Long	32.777411, -117.122849
Begin (Time)	12:05:00
End (Time)	12:15:00
Leq	65.1
Lmax	66.4
Lmin	63.1
Other Lx?	L90, L50, L10
L90	63.9
L50	65
L10	66
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Traffic
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Monitoring

Record #	7
Site ID	S77
Site Location Lat/Long	32.779198, -117.126386
Begin (Time)	12:15:00
End (Time)	12:25:00
Leq	57.9
Lmax	60.8
Lmin	56.9
Other Lx?	L90, L50, L10
L90	57.1
L50	57.7
L10	58.8
Other Lx (Specify Metric)	L
Primary Noise Source	Distant traffic
Other Noise Sources (Background)	Birds, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Comments / Description

Facing southeast

Monitoring

Record #	8
Site ID	ST5
Site Location Lat/Long	32.784122, -117.125500
Begin (Time)	12:27:00
End (Time)	12:37:00
Leq	53.6
Lmax	59.4
Lmin	49.3
Other Lx?	L90, L50, L10
L90	50.1
L50	53.2
L10	56
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Monitoring

Record #	9
Site ID	ST3
Site Location Lat/Long	32.785575, -117.125250
Begin (Time)	12:35:00
End (Time)	12:45:00
Leq	69.6
Lmax	82
Lmin	62.2
Other Lx?	L90, L50, L10
L90	65
L50	67.9
L10	71.6
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Distant Aircraft
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Comments / Description

Facing north.

Monitoring

Record #	10
Site ID	ST9b
Site Location Lat/Long	32.792050, -117.124037
Begin (Time)	10:35:00
End (Time)	10:40:00
Leq	52.5
Lmax	63.5
Lmin	46.7
Other Lx?	L90, L50, L10
L90	48.8
L50	51.1
L10	55.2
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Conversations / Yelling, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Monitoring	
Record #	11
Site ID	ST10b
Site Location Lat/Long	32.789059, -117.119368
Begin (Time)	10:48:00
End (Time)	10:53:00
Leq	52.8
Lmax	59.6
Lmin	51
Other Lx?	L90, L50, L10
L90	51.5
L50	52.4
L10	53.9
Other Lx (Specify Metric)	L
Primary Noise Source	Distant traffic
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Monitoring	
Record #	12
Site ID	ST1b
Site Location Lat/Long	32.784632, -117.113836
Begin (Time)	11:00:00
End (Time)	11:05:00
Leq	76.7
Lmax	80.4
Lmin	71.9
Other Lx?	L90, L50, L10
L90	73.8
L50	76.4
L10	78.4
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Monitoring	
Record #	13
Site ID	ST2b
Site Location Lat/Long	32.781712, -117.112704
Begin (Time)	11:05:00
End (Time)	11:10:00
Leq	68.3
Lmax	70.9
Lmin	63.3
Other Lx?	L90, L50, L10
L90	65.8
L50	68.1
L10	70.1
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Monitoring	
Record #	14
Site ID	ST8b
Site Location Lat/Long	32.781879, -117.110355
Begin (Time)	11:11:00
End (Time)	11:16:00
Leq	63.3
Lmax	73.7
Lmin	54.6
Other Lx?	L90, L50, L10
L90	55.6
L50	59.5
L10	66.5
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

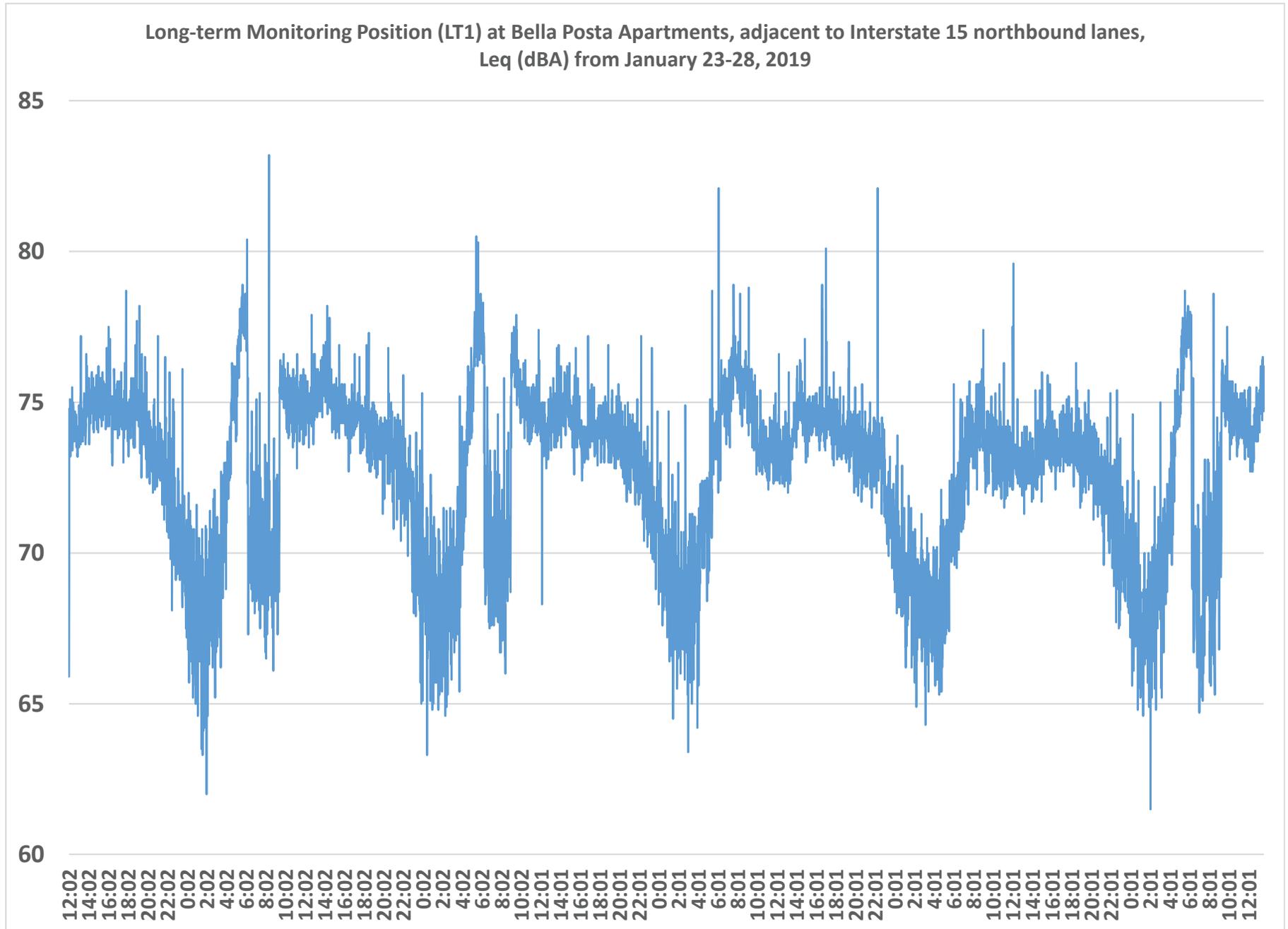
Monitoring	
Record #	15
Site ID	ST6b
Site Location Lat/Long	32.777258, -117.122724
Begin (Time)	11:24:00
End (Time)	11:30:00
Leq	64.5
Lmax	67.7
Lmin	61.4
Other Lx?	L90, L50, L10
L90	63
L50	64.3
L10	65.7
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

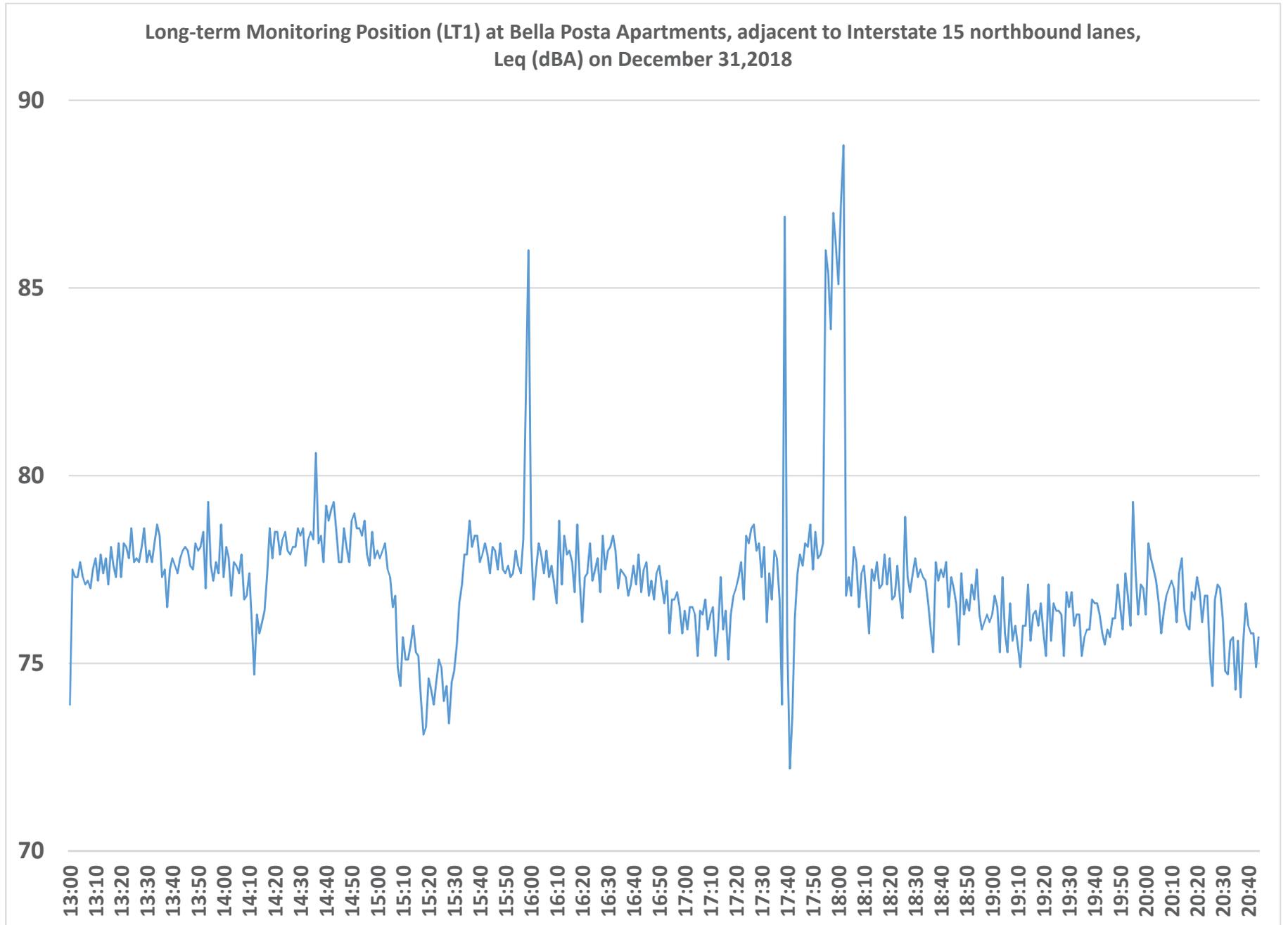
Monitoring	
Record #	16
Site ID	ST7b
Site Location Lat/Long	32.779420, -117.126285
Begin (Time)	11:34:00
End (Time)	11:40:00
Leq	59
Lmax	63.6
Lmin	56.9
Other Lx?	L90, L50, L10
L90	57.4
L50	58.7
L10	60.2
Other Lx (Specify Metric)	L
Primary Noise Source	Kids playing on field
Other Noise Sources (Background)	Birds, Distant Conversations / Yelling, Distant Kids Playing, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

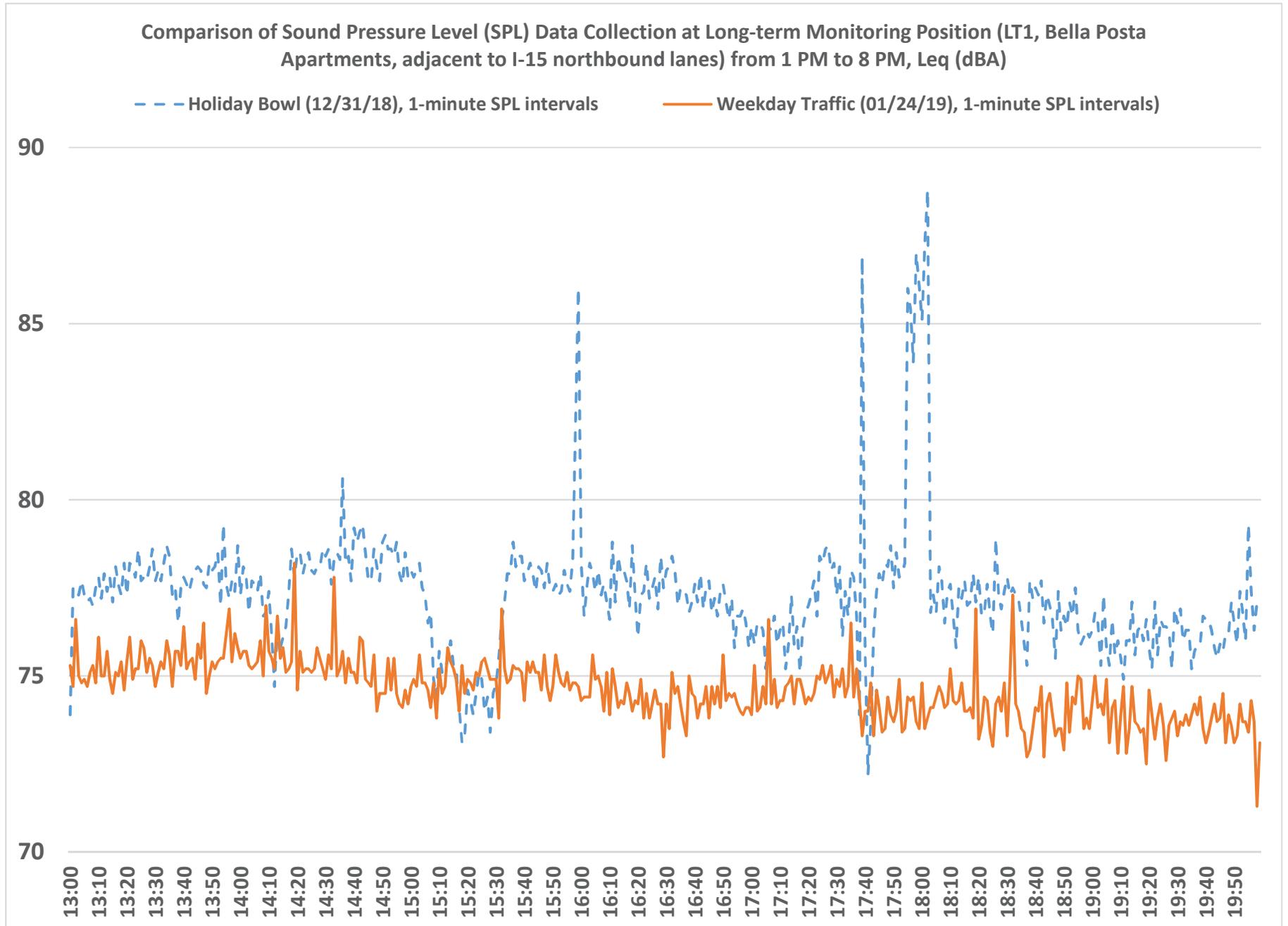
previously noted?

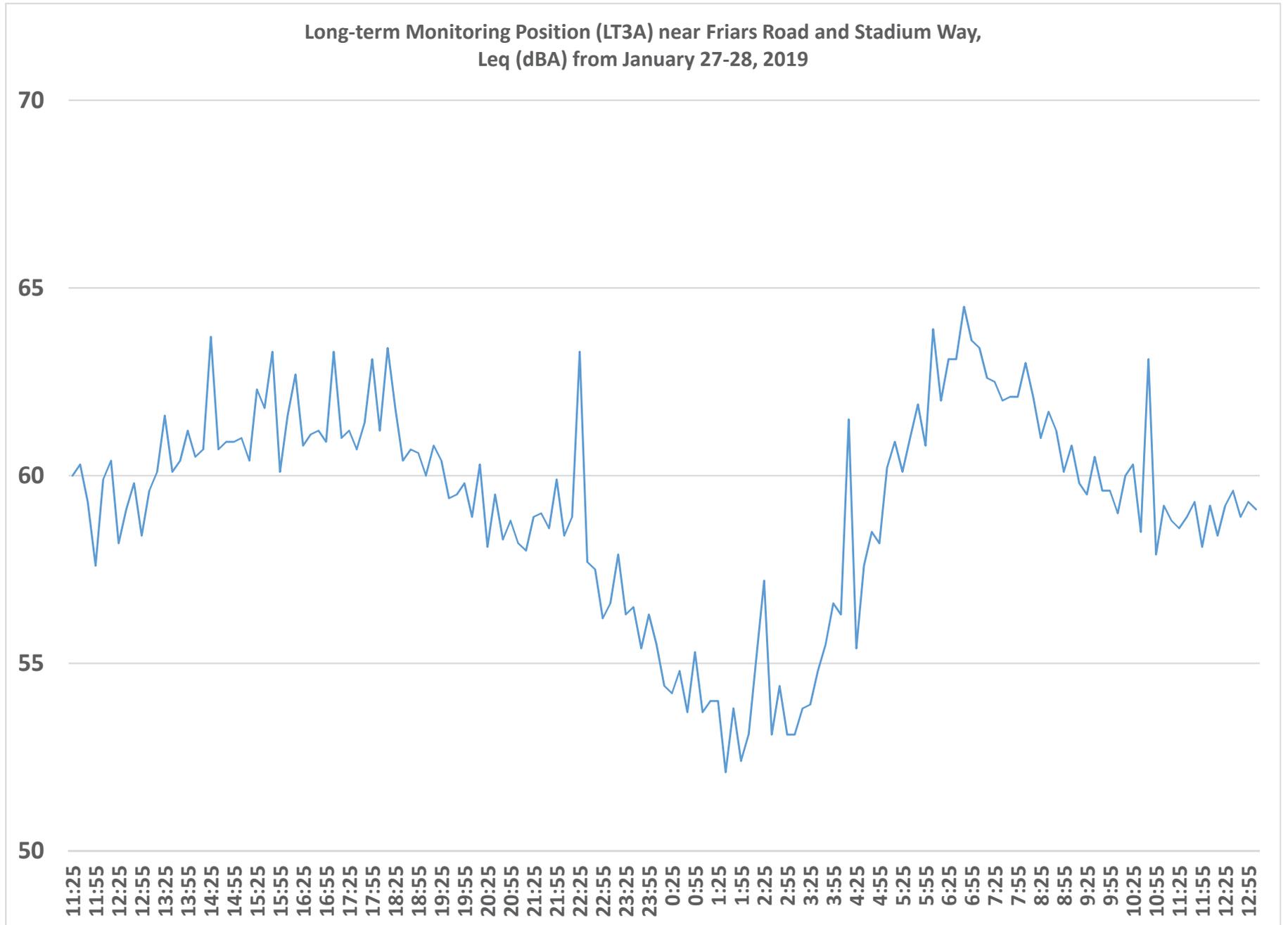
Monitoring	
Record #	17
Site ID	ST5b
Site Location Lat/Long	32.784069, -117.125562
Begin (Time)	11:41:00
End (Time)	11:49:00
Leq	53.7
Lmax	65.2
Lmin	49.3
Other Lx?	L90, L50, L10
L90	49.9
L50	52.6
L10	55
Other Lx (Specify Metric)	L
Primary Noise Source	Distant traffic
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

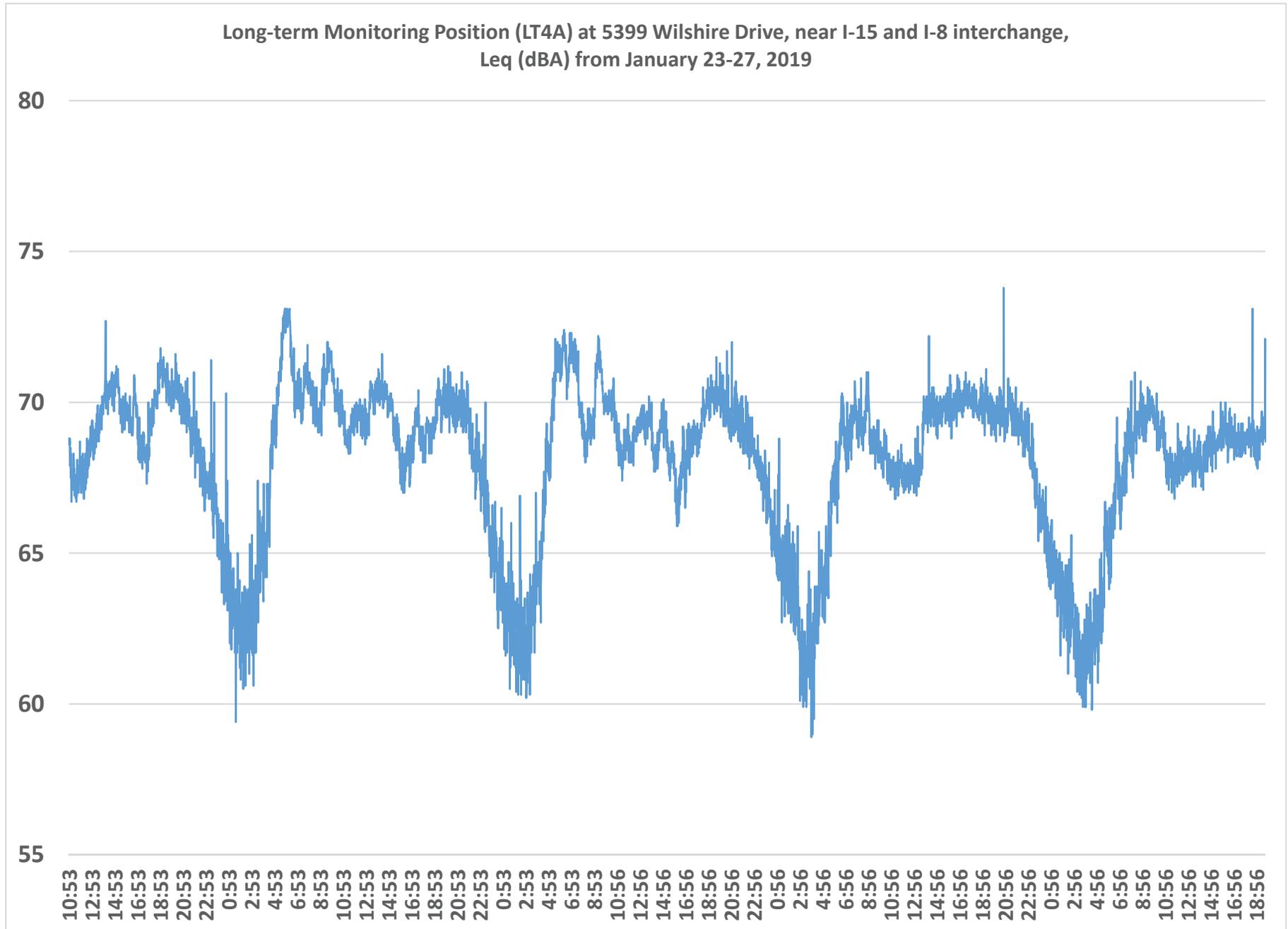
Monitoring	
Record #	18
Site ID	ST3b
Site Location Lat/Long	32.785172, -117.125618
Begin (Time)	11:53:00
End (Time)	12:00:00
Leq	64.9
Lmax	73.6
Lmin	57.3
Other Lx?	L90, L50, L10
L90	58.8
L50	64
L10	67.1
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Distant Aircraft, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

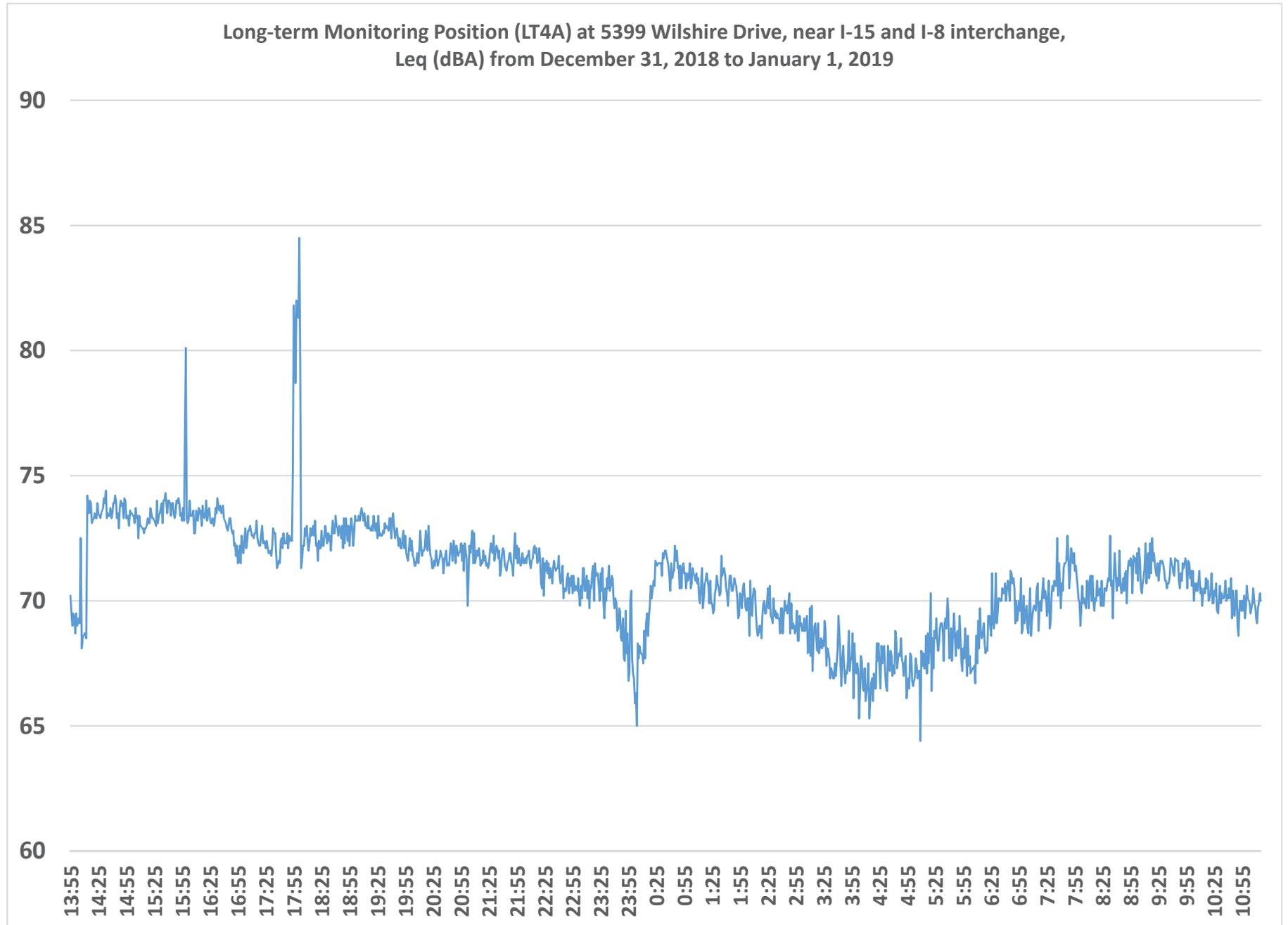


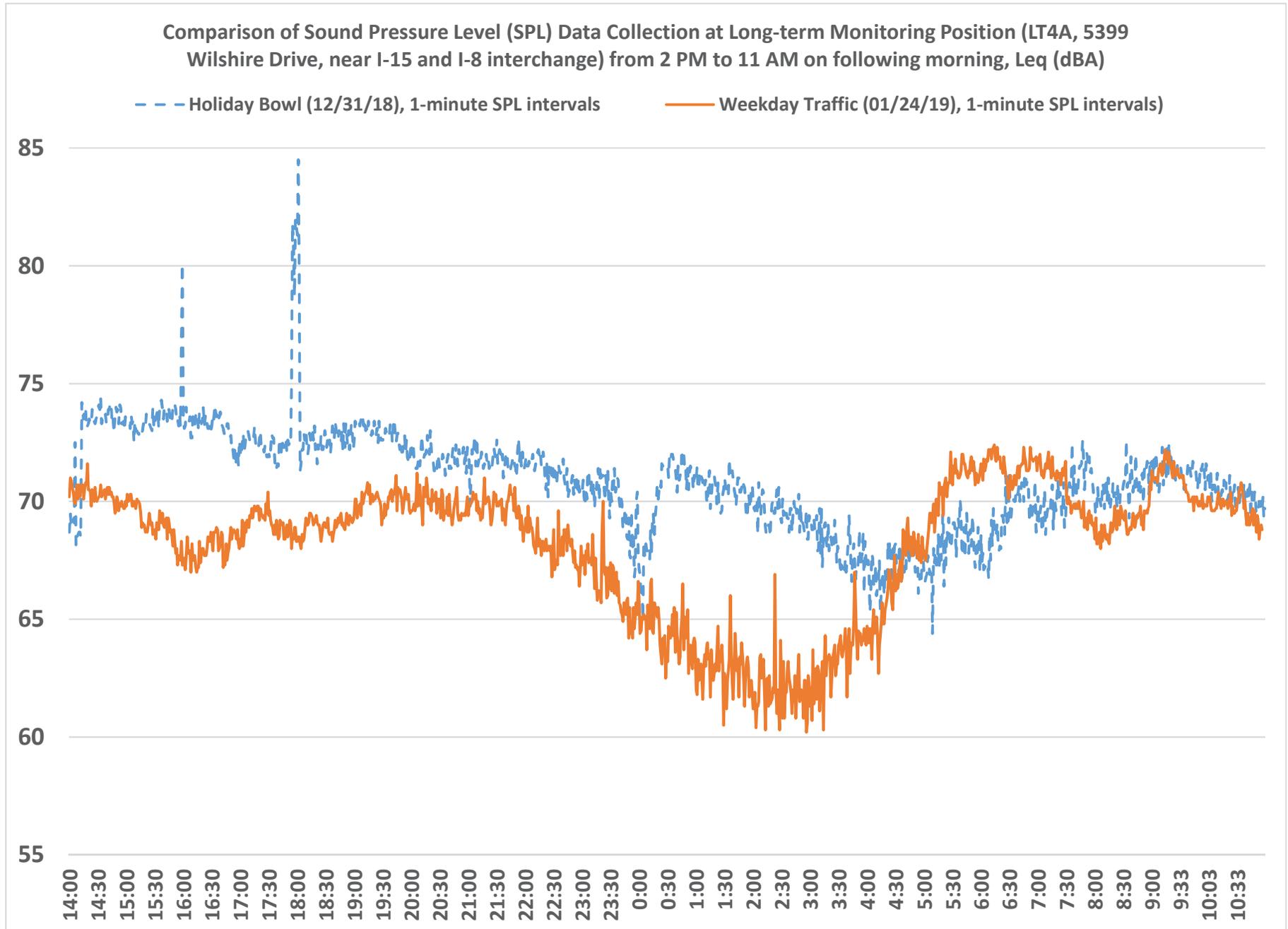


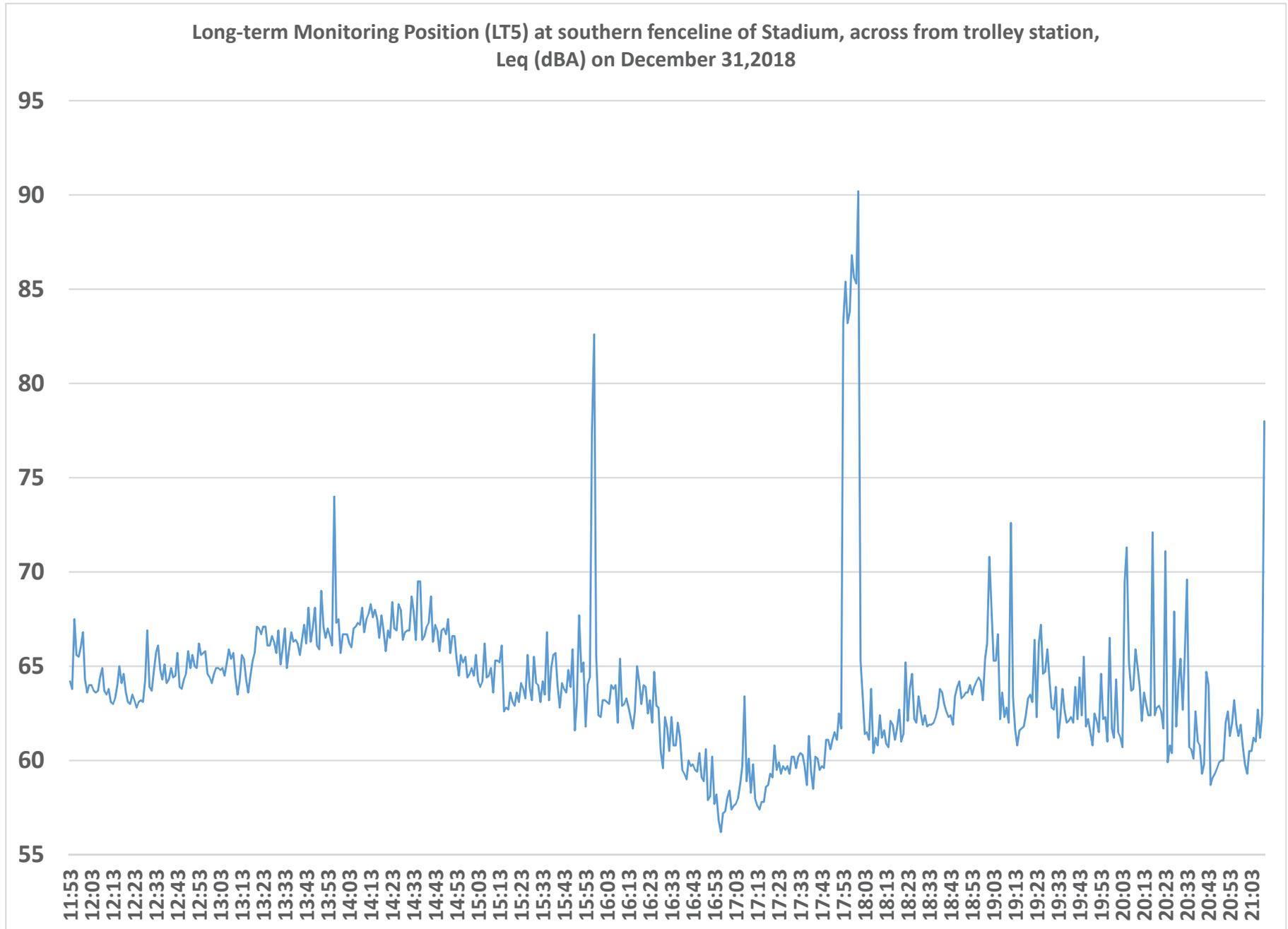


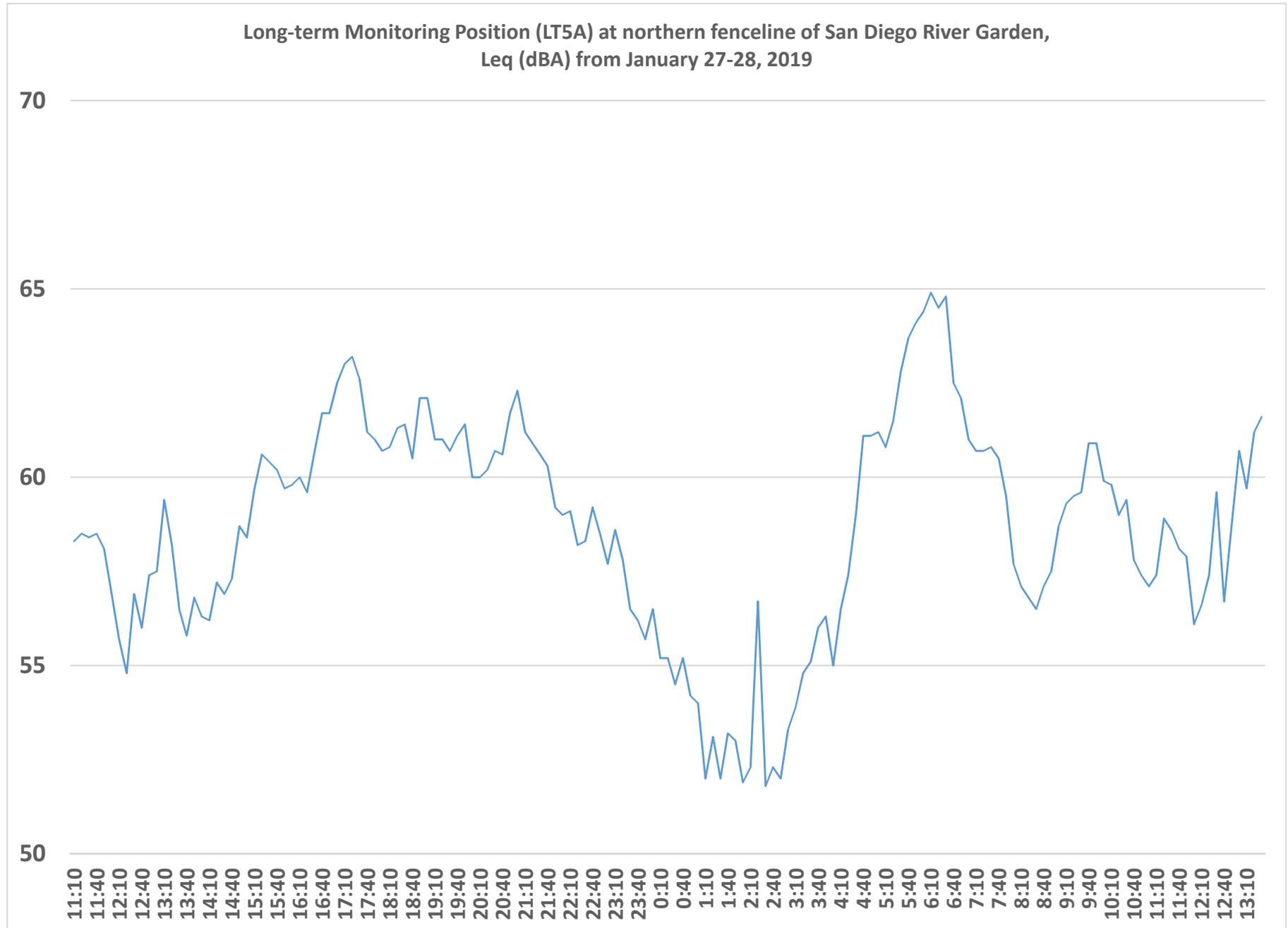


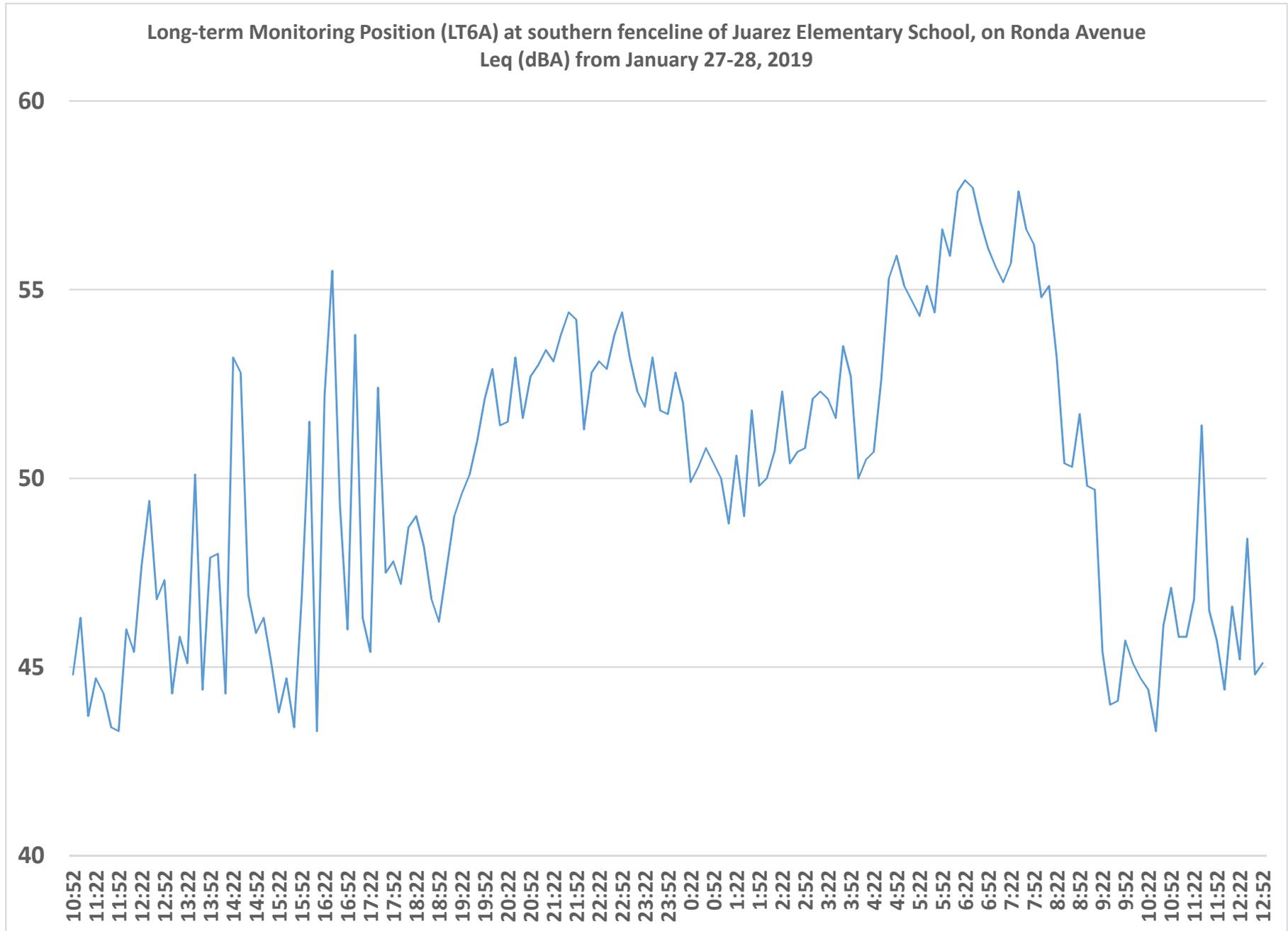


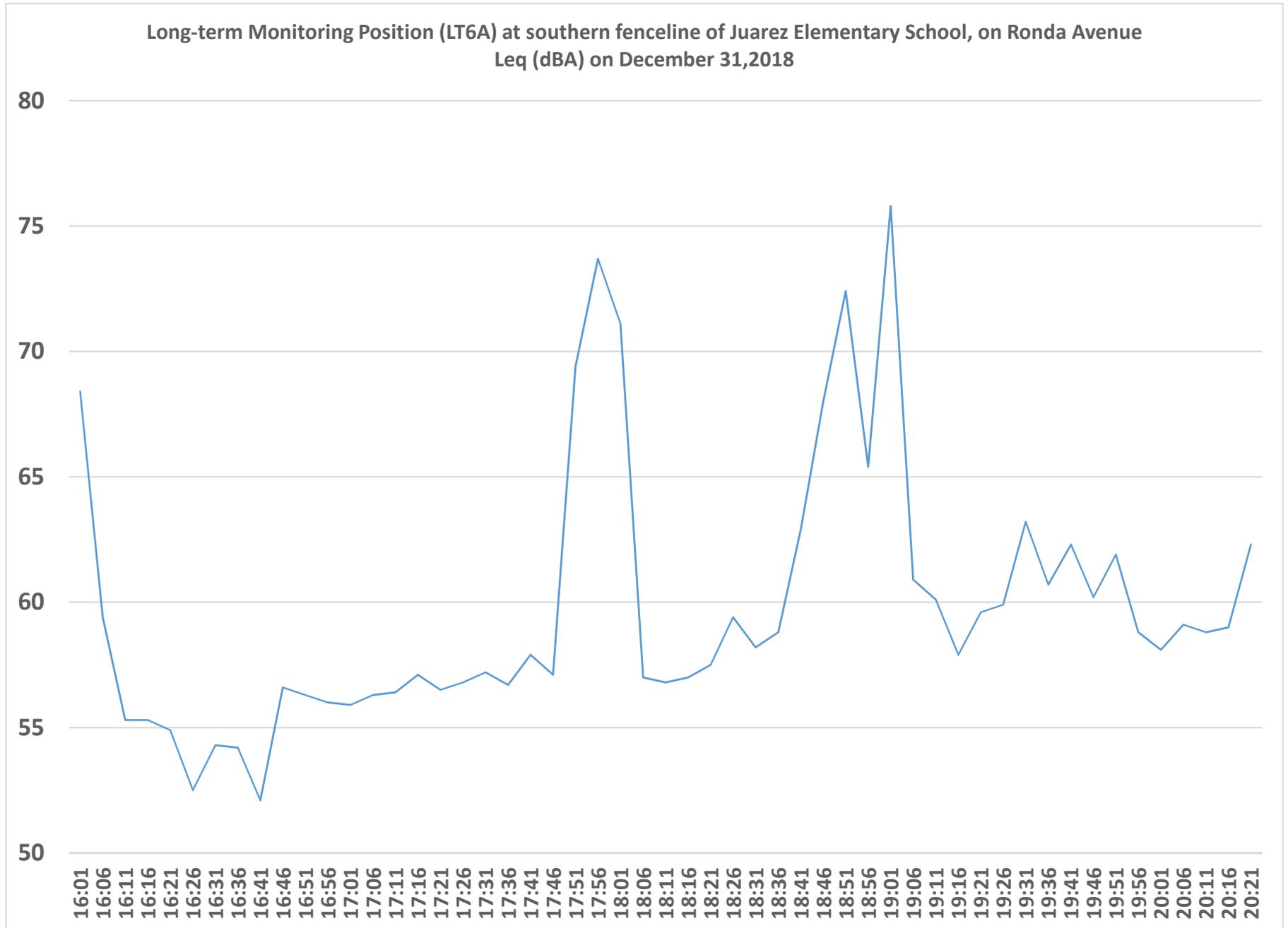


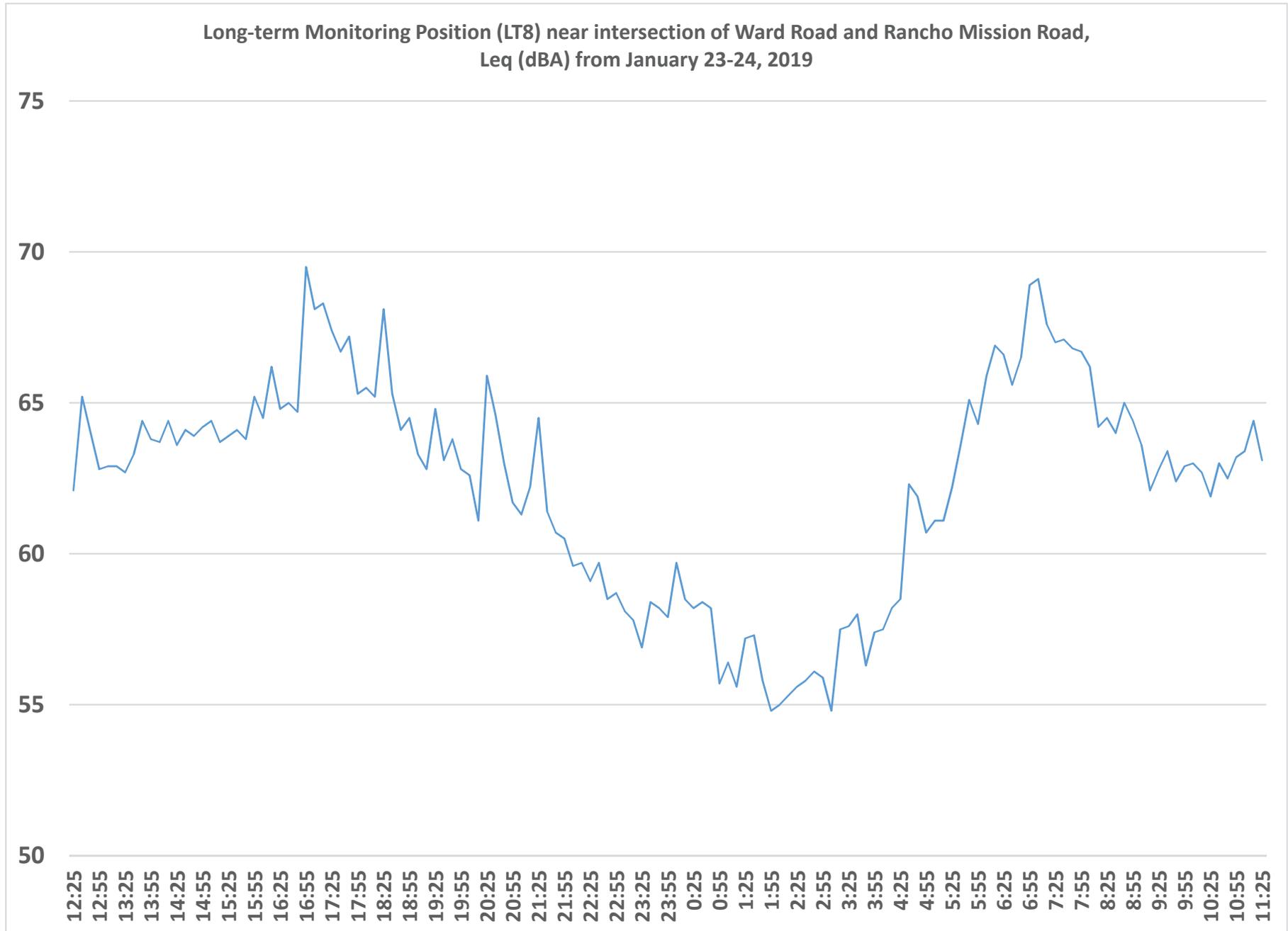


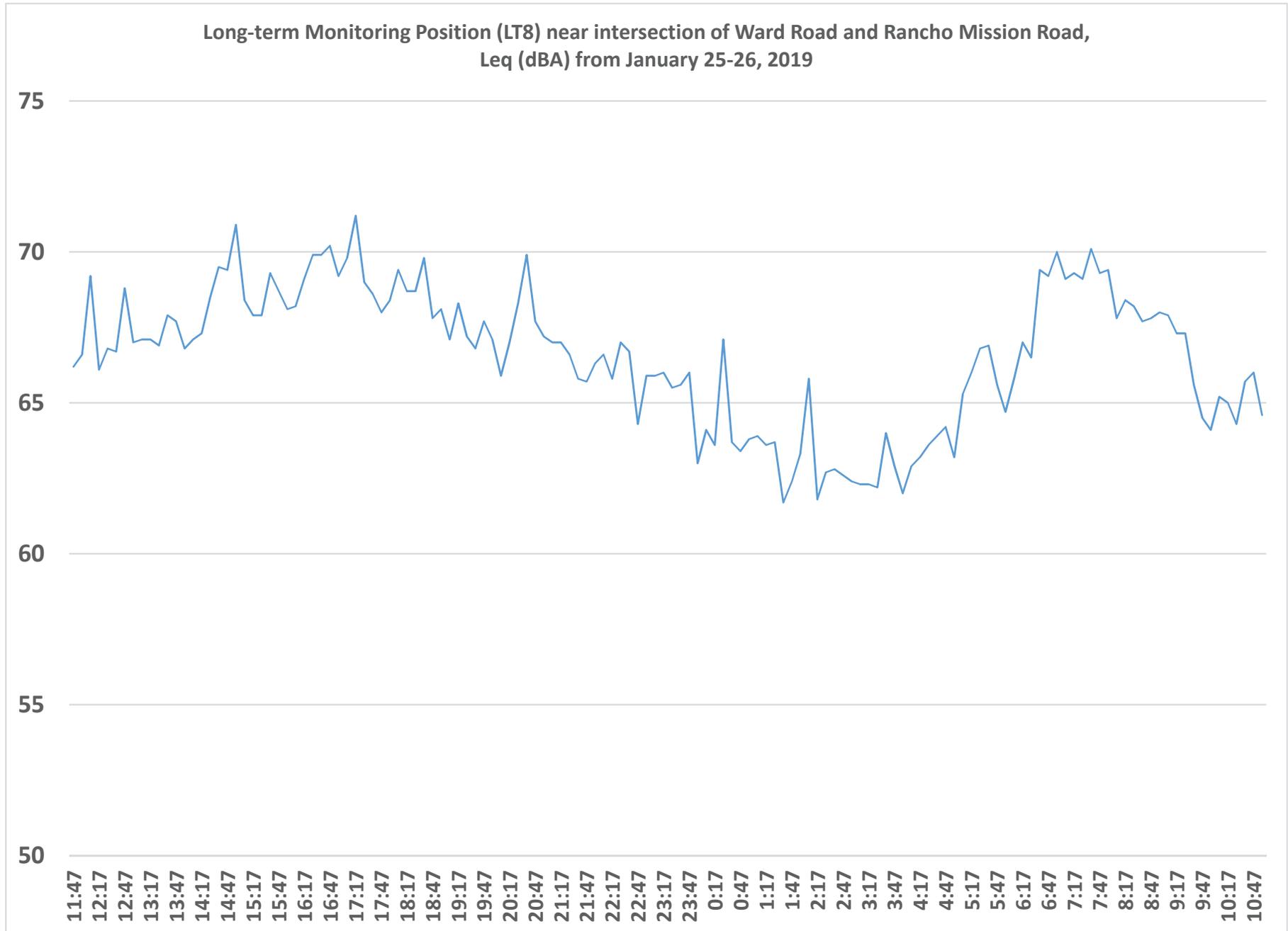












Appendix D

Stationary Sources Operation Noise Modeling Inputs and Output Noise Contours

A-weighting adjustments	26	13	9	3	0	-1	-1	1
plug	40	40	38	34	29	23	19	16 <- average of values for the two fan diameter ranges, per Guyer (Table 12)
tube	47	44	46	47	44	45	38	35 <- average of values for the two fan diameter ranges, per Guyer (Table 12)
prop	46	48	55	53	52	48	43	38 <- per Guyer (Table 12, presumed based on Bies & Hansen ENC)

AHUs (plenum-type return fan only, no condenser units [assume in-building chilled water])

Phase	Building Tag	GSF	m ² facility funct	CFM pksf	m ³ /s per 1,000 m ²	Pressure (Pa)	Q (m ³ /s)	fantype = plug, tube, or prop	unweighted PWL (for CadnaA inputs)							OA dB	Q (cfm)		
									63	125	250	500	1000	2000	4000	8000			
<i>return air fans in building rooftop AHUs:</i>																			
	R1	298765	27770	residence (cc)	250	1.27	625	35	plug	96	96	94	90	85	79	75	72	101	75000
	R2	356302	33118	residence (cc)	250	1.27	625	42	plug	97	97	95	91	86	80	76	73	102	90000
	R3	358735	33345	residence (cc)	250	1.27	625	42	plug	97	97	95	91	86	80	76	73	102	90000
	R4	71250	6623	residence (cc)	250	1.27	625	8	plug	90	90	88	84	79	73	69	66	95	18000
	R5	327673	30457	residence (cc)	250	1.27	625	39	plug	97	97	95	91	86	80	76	73	102	82000
	R6	489976	45544	residence (cc)	250	1.27	625	58	plug	99	99	97	93	88	82	78	75	103	123000
	R7	489559	45505	residence (cc)	250	1.27	625	58	plug	99	99	97	93	88	82	78	75	103	123000
	R8	341623	31754	residence (cc)	250	1.27	625	40	plug	97	97	95	91	86	80	76	73	102	86000
	R9	69336	6445	residence (cc)	250	1.27	625	8	plug	90	90	88	84	79	73	69	66	95	18000
	R10	330140	30687	residence (cc)	250	1.27	625	39	plug	97	97	95	91	86	80	76	73	102	83000
	R11	467528	43457	residence (cc)	250	1.27	625	55	plug	98	98	96	92	87	81	77	74	103	117000
	R12	201935	18770	residence (cc)	250	1.27	625	24	plug	95	95	93	89	84	78	74	71	99	51000
	R13	308211	28648	residence (cc)	250	1.27	625	36	plug	97	97	95	91	86	80	76	73	101	78000
	R14	254546	23660	residence (cc)	250	1.27	625	30	plug	96	96	94	90	85	79	75	72	100	64000
	R15	260085	24175	residence (cc)	250	1.27	625	31	plug	96	96	94	90	85	79	75	72	101	66000
	H1	155539	14457	residence (cc)	250	1.27	625	18	plug	94	94	92	88	83	77	73	70	98	39000
	H2	59876	5566	residence (cc)	250	1.27	625	7	plug	89	89	87	83	78	72	68	65	94	15000
	A1	140420	13052	office	25	0.13	625	2	plug	83	83	81	77	72	66	62	59	88	3600
	A2	60192	5595	office	25	0.13	625	1	plug	79	79	77	73	68	62	58	55	84	1600
	A3	83160	7730	office	25	0.13	625	1	plug	81	81	79	75	70	64	60	57	86	2100
	A4	112336	10442	office	25	0.13	625	1	plug	82	82	80	76	71	65	61	58	87	2900
	B1	140420	13052	office	25	0.13	625	2	plug	83	83	81	77	72	66	62	59	88	3600
	B2	60192	5595	office	25	0.13	625	1	plug	79	79	77	73	68	62	58	55	84	1600
	B3	50160	4662	office	25	0.13	625	1	plug	79	79	77	73	68	62	58	55	83	1300
	C1	50160	4662	office	25	0.13	625	1	plug	79	79	77	73	68	62	58	55	83	1300
	C2	84252	7831	office	25	0.13	625	1	plug	81	81	79	75	70	64	60	57	86	2200
	C3	118590	11023	office	25	0.13	625	1	plug	82	82	80	76	71	65	61	58	87	3000
	D1	83160	7730	office	25	0.13	625	1	plug	81	81	79	75	70	64	60	57	86	2100
	D2	68640	6380	office	25	0.13	625	1	plug	80	80	78	74	69	63	59	56	85	1800
	D3	100890	9378	office	25	0.13	625	1	plug	82	82	80	76	71	65	61	58	86	2600
	D4	112336	10442	office	25	0.13	625	1	plug	82	82	80	76	71	65	61	58	87	2900
	E1	150450	13984	office	26	0.13	626	2	plug	84	84	82	78	73	67	63	60	88	4000
	F1	150450	13984	office	27	0.14	627	2	plug	84	84	82	78	73	67	63	60	89	4100

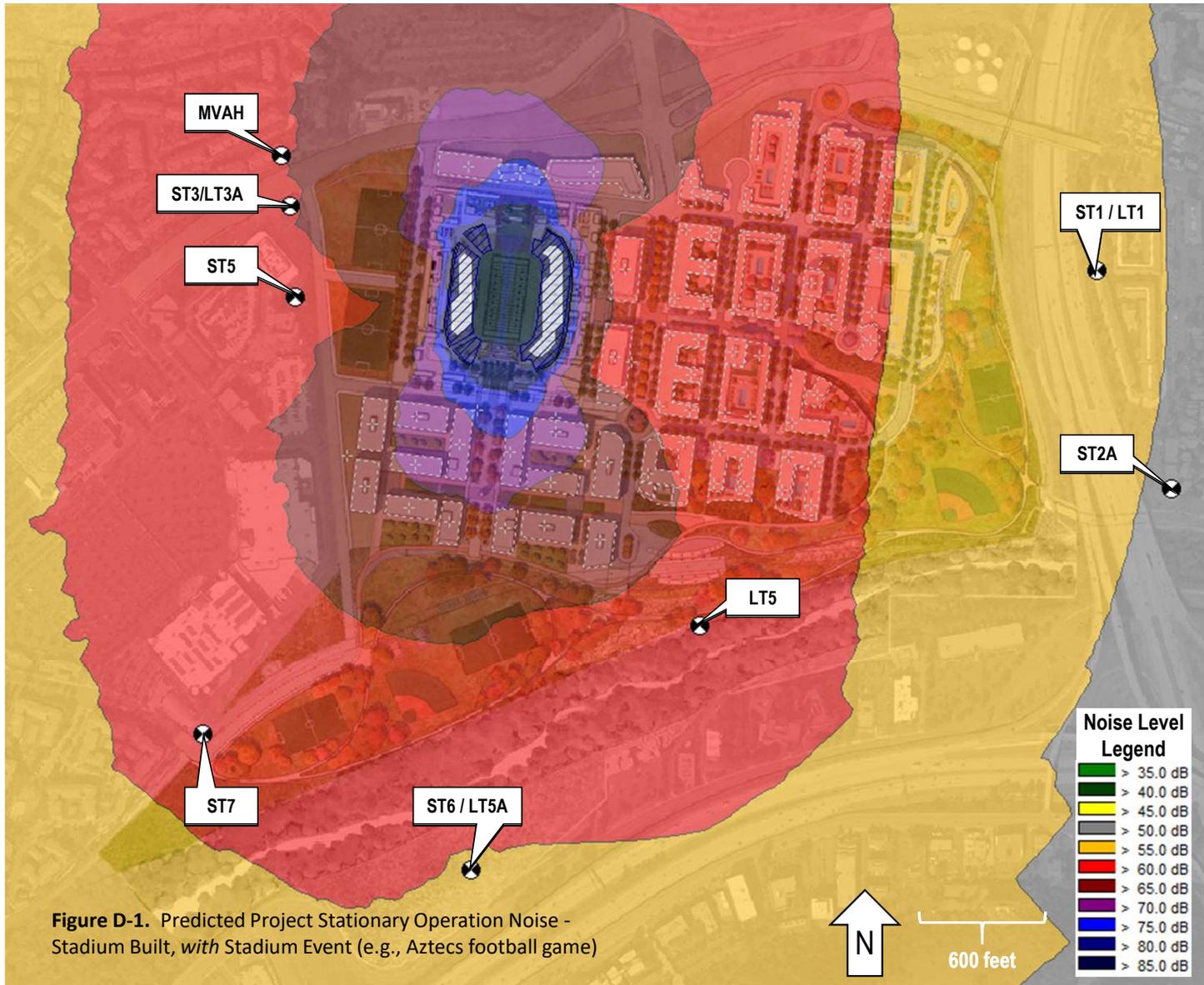
A-weighting adjustments 26 13 9 3 0 -1 -1 1

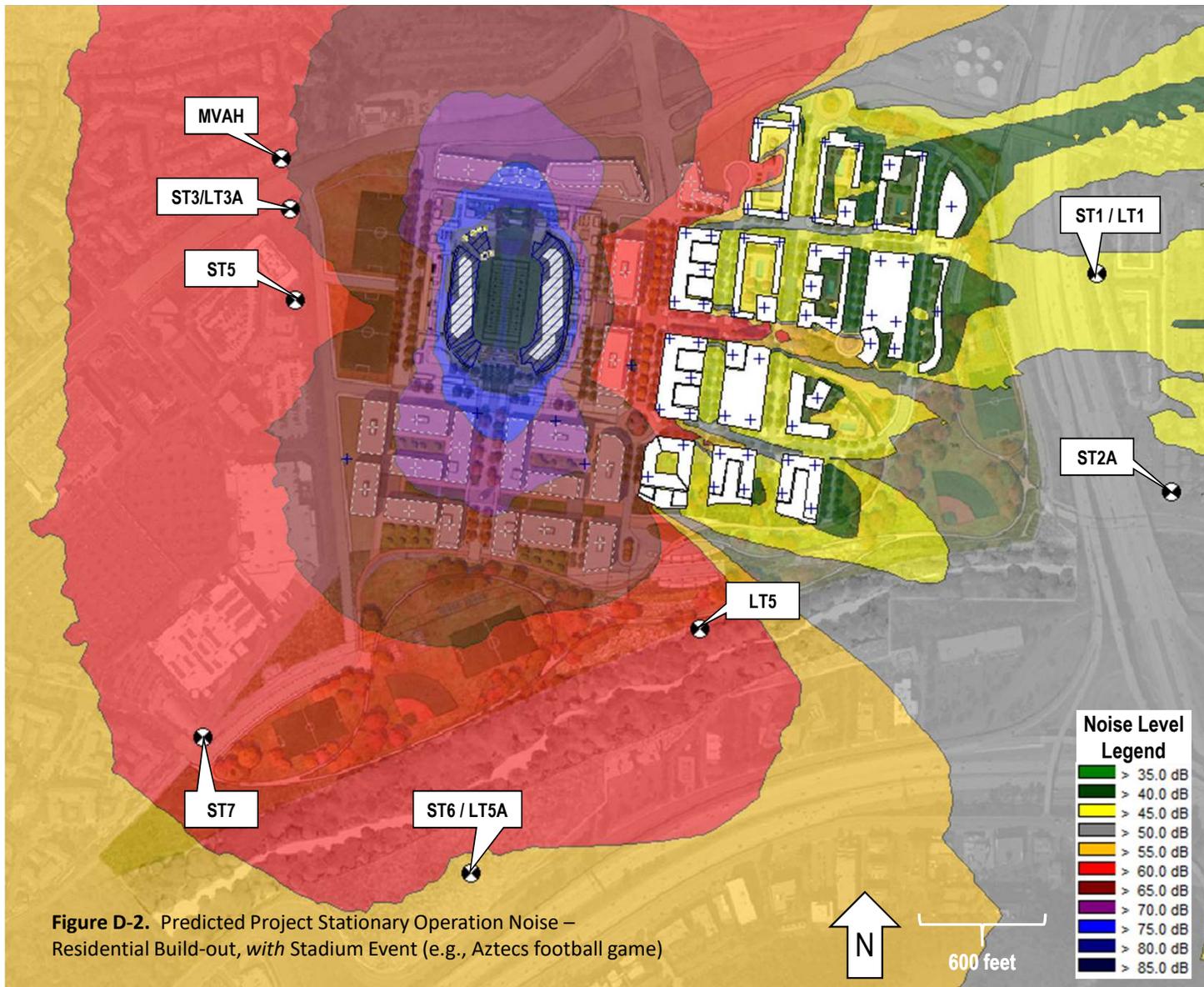
plug 40 40 38 34 29 23 19 16 <- average of values for the two fan diameter ranges, per Guyer (Table 12)
 tube 47 44 46 47 44 45 38 35 <- average of values for the two fan diameter ranges, per Guyer (Table 12)
 prop 46 48 55 53 52 48 43 38 <- per Guyer (Table 12, presumed based on Bies & Hansen ENC)

0.75 = CFM per square foot of parking

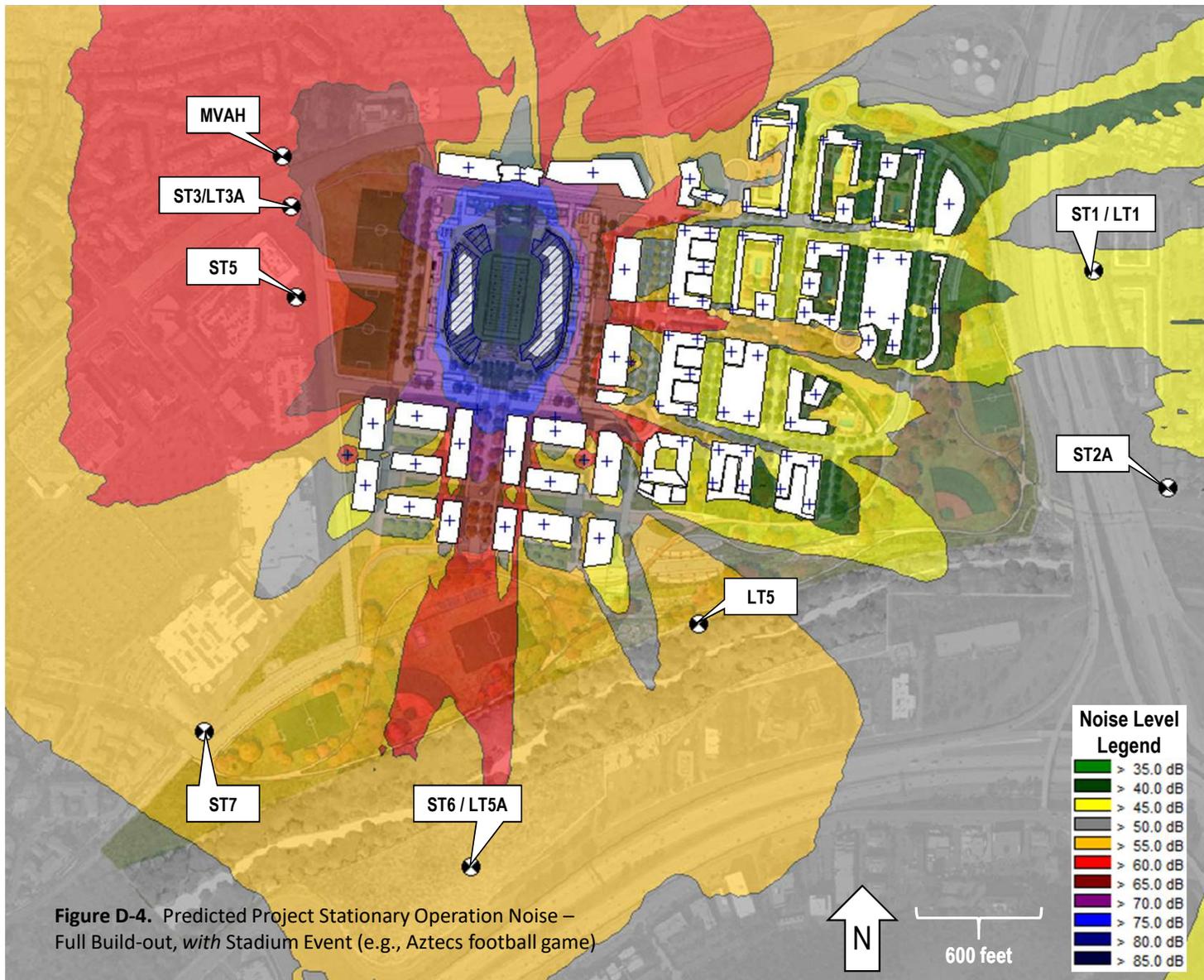
Exhaust units (tubeaxial fans only):

Phase	Building Tag	GSF	m ² facility function	CFM	Pressure (Pa)	Q (m ³ /s)	fantype = plug, tube, or prop	63	125	250	500	1000	2000	4000	8000	OA dB
<i>fans exhausting at above-bldg roof level (near ingress and egress)</i>																
	Campus 1A P1	291045	27053 parking	219000	375	103	tube	104	101	103	104	101	102	95	92	110
	Campus 1A P2	291045	27053 parking	219000	375	103	tube	104	101	103	104	101	102	95	92	110
	Campus 1B P1	232690	21629 parking	175000	375	83	tube	103	100	102	103	100	101	94	91	109
	Campus 1B P2	232690	21629 parking	175000	375	83	tube	103	100	102	103	100	101	94	91	109
	Campus 2A P1	120823	11231 parking	91000	375	43	tube	100	97	99	100	97	98	91	88	106
	Campus 2A P2	116037	10786 parking	88000	375	42	tube	100	97	99	100	97	98	91	88	106
	Campus 2B P1	107980	10037 parking	81000	375	38	tube	99	96	98	99	96	97	90	87	106
	Campus 2B P2	108720	10106 parking	82000	375	39	tube	99	96	98	99	96	97	90	87	106
	Campus 3A	52800	4908 parking	40000	375	19	tube	96	93	95	96	93	94	87	84	103
	Campus 3B	52526	4882 parking	40000	375	19	tube	96	93	95	96	93	94	87	84	103

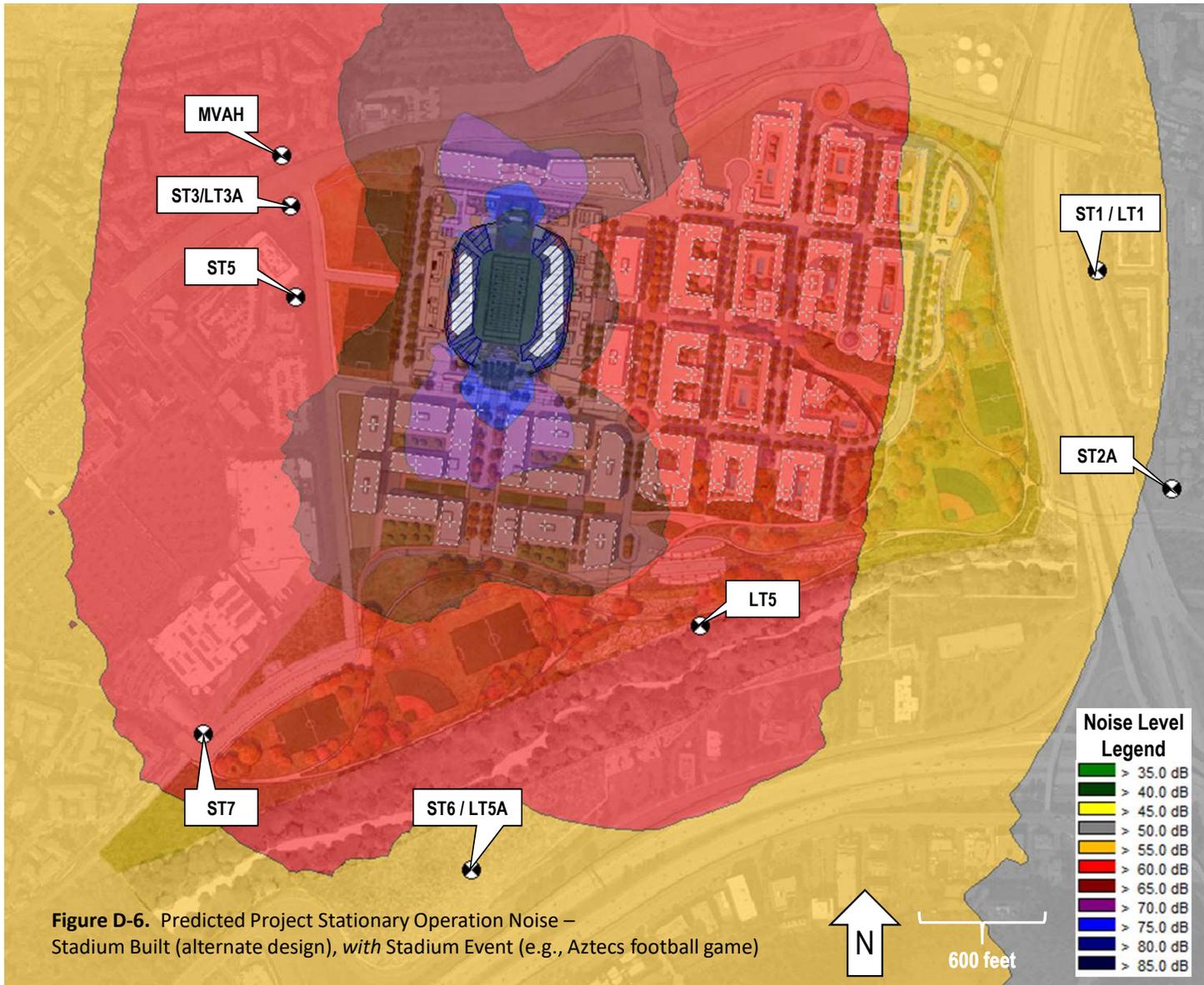












Appendix E

Construction Noise Model Predictions

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of San Diego = 75
 allowable hours over which Leq is to be averaged (example: 12 for City of San Diego; 8 for County of San Diego or FTA guidance) = 12

Construction Phase	FHWA RCNM Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 12-hour Leq
Grading Phase A	Excavator	4	40	81		450	61.9	8	480	62
	Grader	3	40	85		450	65.9	8	480	65
	Dozer	2	40	82		450	62.9	8	480	60
	Backhoe	6	40	78		450	58.9	9	540	61
	Scraper	6	40	84		450	64.9	8	480	67
Total for Grading Phase A Phase:										70.9
Site Preparation Phase A	Dozer	6	40	82		600	60.4	8	480	62
	Tractor	2	40	84		600	62.4	8	480	60
	Front End Loader	2	40	79		600	57.4	8	480	55
	Backhoe	2	40	78		600	56.4	8	480	54
Total for Site Preparation Phase A Phase:										65.1
Building Construction Stadium (Phase A)	Crane	3	16	81		600	59.4	12	720	56
	Man Lift	6	20	75	Forklifts	600	53.4	12	720	54
	Generator	3	50	72		600	50.4	12	720	52
	Backhoe	3	40	78		600	56.4	12	720	57
	Front End Loader	2	40	79		600	57.4	12	720	56
	Welder / Torch	8	40	73		600	51.4	12	720	56
	Total for Building Construction Stadium (Phase A) Phase:									
Grading Phase A (cont'd)	Excavator	4	40	81		450	61.9	8	480	62
	Grader	3	40	85	Forklifts	450	65.9	8	480	65
	Dozer	3	40	82		450	62.9	8	480	62
	Scraper	4	40	84		450	64.9	8	480	65
	Tractor	1	40	84		450	64.9	8	480	59
	Front End Loader	2	40	79		450	59.9	8	480	57
	Backhoe	2	40	78		450	58.9	8	480	56
	Total for Grading Phase A (cont'd) Phase:									
Grading Phase B (Rough Residential Pad & Initial River Parks)	Excavator	6	40	81		475	61.4	8	480	63
	Grader	4	40	85		475	65.4	8	480	66
	Dozer	3	40	82		475	62.4	8	480	61
	Scraper	6	40	84		475	64.4	8	480	66
	Tractor	2	40	84		475	64.4	8	480	62
	Backhoe	2	40	78		475	58.4	8	480	56
	Front End Loader	2	40	79		475	59.4	8	480	57
	Total for Grading Phase B (Rough Residential Pad & Initial River Parks) Phase:									
Site Preparation Phase B (Utilities)	Dozer	3	40	82		1200	54.4	8	480	53
	Tractor	2	40	84		1200	56.4	8	480	54
	Front End Loader	3	40	79		1200	51.4	8	480	50
	Backhoe	3	40	78		1200	50.4	8	480	49
Total for Site Preparation Phase B (Utilities) Phase:										58.1
Paving Stadium (Phase A)	Paver	3	50	77		200	65.0	8	480	65
	All Other Equipment > 5 HP	2	50	85	Paving Equipment	200	73.0	8	480	71
	Roller	4	20	80		200	68.0	8	480	65
Total for Paving Stadium (Phase A) Phase:										72.9
Demolition of SDCCU (Phase A)	Concrete Saw	20	20	90		1200	62.4	12	720	68
	Excavator	10	40	81		1200	53.4	12	720	59
	Dozer	8	40	82		1200	54.4	12	720	59
	Mounted Impact Hammer (hoe ram)	3	20	90	Crushing/Proc. Equipment	1200	62.4	12	720	60
Total for Demolition of SDCCU (Phase A) Phase:										69.9
Architectural Coating Stadium (Phase A)	Compressor (Air)	8	40	78		600	56.4	6	360	58
Total for Architectural Coating Stadium (Phase A) Phase:										58.5
Demolition of SDCCU (Phase B)	Concrete Saw	20	20	90		1500	60.5	12	720	66
	Excavator	10	40	81		1500	51.5	12	720	57
	Dozer	3	40	82		1500	52.5	12	720	53
	Mounted Impact Hammer (hoe ram)	3	20	90	Crushing/Proc. Equipment	1200	62.4	12	720	60
Total for Demolition of SDCCU (Phase B) Phase:										68.0

Finish Phase B (Finish Residential Pad and River Park)	Dozer	6
	Tractor	2
	Front End Loader	3
	Backhoe	3
Grading Phase C	Excavator	4
	Grader	6
	Dozer	3
	Scraper	4
	Tractor	2
	Backhoe	2
	Front End Loader	2
Building Construction Phase C1	Crane	4
	Man Lift	8
	Generator	3
	Tractor	2
	Backhoe	2
	Front End Loader	2
	Welder / Torch	6
Site Preparation - Off Site Improvements	Dozer	3
	Tractor	1
	Front End Loader	1
	Backhoe	2
Paving Phase C1	Paver	2
	All Other Equipment > 5 HP	2
	Roller	2
Architectural Coating Phase C1	Compressor (Air)	4
Building Construction Phase C2	Crane	6
	Man Lift	8
	Generator	6
	Tractor	2
	Backhoe	2
	Front End Loader	2
	Welder / Torch	6
Paving Phase C2	Paver	4
	All Other Equipment > 5 HP	2
	Roller	4
Architectural Coating Phase C2	Compressor (Air)	4
Building Construction Phase C3	Crane	4
	Man Lift	3
	Generator	1
	Tractor	1
	Backhoe	1
	Front End Loader	1
	Welder / Torch	1
Paving Phase C3	Paver	2
	All Other Equipment > 5 HP	2
	Roller	2
Architectural Coating Phase 3	Compressor (Air)	4

40	82	450	62.9	8	480	65	
40	84	450	64.9	8	480	62	
40	79	450	59.9	8	480	59	
40	78	450	58.9	8	480	58	
Total for Finish Phase B (Finish Residential Pad and River Park) Phase:							67.9
40	81	450	61.9	8	480	62	
40	85	450	65.9	8	480	68	
40	82	450	62.9	8	480	62	
40	84	450	64.9	8	480	65	
40	84	450	64.9	8	480	62	
40	78	450	58.9	8	480	56	
40	79	450	59.9	8	480	57	
Total for Grading Phase C Phase:							71.9
16	81	450	61.9	7	420	58	
20	75	450	55.9	8	480	56	
50	72	450	52.9	8	480	53	
40	84	450	64.9	7	420	62	
40	78	450	58.9	7	420	56	
40	79	450	59.9	7	420	57	
40	73	450	53.9	8	480	56	
Total for Building Construction Phase C1 Phase:							65.9
40	82	175	71.1	8	480	70	
40	84	175	73.1	8	480	67	
40	79	175	68.1	8	480	62	
40	78	175	67.1	8	480	64	
Total for Site Preparation - Off Site Improvements Phase:							73.1
50	77	450	57.9	8	480	56	
50	85	450	65.9	8	480	64	
20	80	450	60.9	8	480	55	
Total for Paving Phase C1 Phase:							65.2
40	78	600	56.4	6	360	55	
Total for Architectural Coating Phase C1 Phase:							55.4
16	81	450	61.9	7	420	59	
20	75	450	55.9	8	480	56	
50	72	450	52.9	8	480	56	
40	84	450	64.9	7	420	62	
40	78	450	58.9	7	420	56	
40	79	450	59.9	7	420	57	
40	73	450	53.9	8	480	56	
Total for Building Construction Phase C2 Phase:							66.4
50	77	450	57.9	8	480	59	
50	85	450	65.9	8	480	64	
20	80	450	60.9	8	480	58	
Total for Paving Phase C2 Phase:							66.1
40	78	600	56.4	6	360	55	
Total for Architectural Coating Phase C2 Phase:							55.4
16	81	800	56.9	7	420	53	
20	75	800	50.9	8	480	47	
50	72	800	47.9	8	480	43	
40	84	800	59.9	7	420	54	
40	78	800	53.9	7	420	48	
40	79	800	54.9	7	420	49	
40	73	800	48.9	8	480	43	
Total for Building Construction Phase C3 Phase:							58.0
50	77	450	57.9	8	480	56	
50	85	450	65.9	8	480	64	
20	80	450	60.9	8	480	55	
Total for Paving Phase C3 Phase:							65.2
40	78	450	58.9	6	360	58	
Total for Architectural Coating Phase 3 Phase:							57.9